Table C-17-23. Feather River d/s of Thermalito, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,000	2,505	4,618	14,816	20,547	15,985	8,424	6,279	4,845	10,000	7,691	9,042
20%	4,000	2,500	3,736	4,226	12,670	11,259	3,587	4,047	4,367	9,800	7,218	8,233
30%	4,000	2,500	2,502	2,152	4,539	8,097	2,954	3,015	4,001	9,574	7,036	7,724
40%	3,980	2,500	1,700	1,700	3,106	5,068	2,019	2,653	3,852	9,257	6,754	6,219
50%	3,390	1,700	1,700	1,700	2,007	2,657	1,364	2,202	3,617	8,959	6,626	3,408
60%	1,756	1,700	1,700	1,700	1,700	1,916	1,000	1,669	3,433	8,642	6,314	2,304
70%	1,658	1,598	1,700	1,350	1,700	1,700	1,000	1,070	3,267	8,287	5,812	1,362
80%	1,264	1,200	1,200	900	1,200	1,387	1,000	1,000	3,001	7,426	3,441	1,007
90%	999	946	900	900	900	820	787	1,000	2,337	4,762	1,130	1,000
Long Term												
Full Simulation Period[a]	2,747	2,058	2,837	4,995	6,444	6,902	3,084	3,005	3,628	8,157	5,634	4,601
Water Year Types[b]												
Wet (32%)	3,051	2,470	3,948	11,896	14,787	14,772	6,408	4,740	4,211	8,577	6,228	8,327
Above Normal (15%)	2,741	2,119	3,344	2,838	5,809	8,568	2,170	3,101	3,930	9,488	7,346	6,899
Below Normal (17%)	2,862	1,900	2,102	1,441	1,897	1,985	1,203	1,749	3,552	8,833	6,868	3,068
Dry (22%)	2,652	1,664	2,229	1,459	1,659	1,762	1,470	2,223	3,284	8,099	4,990	1,052
Critical (15%)	2,102	1,876	1,694	1,648	1,482	1,634	1,407	1,790	2,666	5,217	2,163	1,345

Alternative 7 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,000	2,500	4,222	16,503	21,618	16,719	8,424	6,463	6,707	10,000	9,307	7,323
20%	4,000	2,500	2,358	7,638	15,272	11,337	3,488	4,320	5,890	10,000	7,803	7,006
30%	4,000	2,500	1,842	2,154	9,445	8,089	2,679	2,829	5,285	10,000	6,234	5,185
40%	4,000	2,500	1,700	1,700	3,700	5,095	1,892	2,156	4,112	8,893	5,249	4,415
50%	3,938	1,789	1,700	1,700	2,152	3,629	1,400	1,806	3,371	7,384	4,574	2,779
60%	2,968	1,700	1,700	1,700	1,700	2,150	1,000	1,409	2,911	6,304	4,107	2,115
70%	2,230	1,700	1,700	1,407	1,700	1,700	1,000	1,005	2,590	5,195	3,673	1,758
80%	1,700	1,200	1,237	960	1,200	1,700	1,000	1,000	2,340	3,919	3,008	1,208
90%	1,397	900	930	900	900	1,000	970	1,000	1,883	3,003	2,123	1,001
Long Term												
Full Simulation Period[a]	3,061	2,059	3,074	5,455	7,297	7,079	3,065	2,956	4,035	7,076	5,202	3,818
Water Year Types[b]												
Wet (32%)	3,219	2,505	5,527	13,052	16,549	14,548	6,403	4,889	4,629	8,000	5,398	6,955
Above Normal (15%)	2,840	1,877	3,010	3,867	7,513	9,566	2,164	3,405	5,282	9,111	6,520	4,732
Below Normal (17%)	3,207	1,904	1,525	1,496	2,106	2,573	1,160	1,415	3,550	8,619	6,870	2,281
Dry (22%)	3,012	1,764	1,754	1,419	1,573	1,805	1,496	1,638	2,687	5,541	3,501	1,196
Critical (15%)	2,840	1,901	1,611	1,255	1,676	1,575	1,312	2,092	4,091	3,538	4,063	1,832

Alternative 7 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	-5	-396	1,687	1,071	734	0	184	1,862	0	1,616	-1,719
20%	0	0	-1,378	3,412	2,601	77	-99	273	1,523	200	586	-1,227
30%	0	0	-659	2	4,906	-8	-275	-187	1,285	426	-802	-2,538
40%	20	0	0	0	595	28	-127	-497	260	-364	-1,505	-1,803
50%	548	89	0	0	146	972	36	-395	-246	-1,575	-2,052	-630
60%	1,212	0	0	0	0	234	0	-261	-523	-2,338	-2,207	-190
70%	572	102	0	57	0	0	0	-65	-676	-3,091	-2,139	396
80%	436	0	37	60	0	313	0	0	-661	-3,507	-433	201
90%	398	-46	30	0	0	180	183	0	-454	-1,759	993	1
Long Term												
Full Simulation Period[a]	314	2	237	460	854	176	-18	-50	408	-1,082	-433	-784
Water Year Types[b]												
Wet (32%)	168	35	1,580	1,156	1,762	-224	-6	149	418	-577	-830	-1,372
Above Normal (15%)	99	-242	-334	1,029	1,705	999	-6	303	1,352	-377	-825	-2,168
Below Normal (17%)	345	4	-577	55	210	588	-43	-334	-2	-213	2	-788
Dry (22%)	360	99	-475	-40	-86	43	26	-585	-597	-2,557	-1,489	144
Critical (15%)	737	25	-83	-393	195	-59	-95	302	1,425	-1,679	1,900	487

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-17-24. Feather River d/s of Thermalito, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,000	2,505	4,618	14,816	20,547	15,985	8,424	6,279	4,845	10,000	7,691	9,042
20%	4,000	2,500	3,736	4,226	12,670	11,259	3,587	4,047	4,367	9,800	7,218	8,233
30%	4,000	2,500	2,502	2,152	4,539	8,097	2,954	3,015	4,001	9,574	7,036	7,724
40%	3,980	2,500	1,700	1,700	3,106	5,068	2,019	2,653	3,852	9,257	6,754	6,219
50%	3,390	1,700	1,700	1,700	2,007	2,657	1,364	2,202	3,617	8,959	6,626	3,408
60%	1,756	1,700	1,700	1,700	1,700	1,916	1,000	1,669	3,433	8,642	6,314	2,304
70%	1,658	1,598	1,700	1,350	1,700	1,700	1,000	1,070	3,267	8,287	5,812	1,362
80%	1,264	1,200	1,200	900	1,200	1,387	1,000	1,000	3,001	7,426	3,441	1,007
90%	999	946	900	900	900	820	787	1,000	2,337	4,762	1,130	1,000
Long Term												
Full Simulation Period[a]	2,747	2,058	2,837	4,995	6,444	6,902	3,084	3,005	3,628	8,157	5,634	4,601
Water Year Types[b]												
Wet (32%)	3,051	2,470	3,948	11,896	14,787	14,772	6,408	4,740	4,211	8,577	6,228	8,327
Above Normal (15%)	2,741	2,119	3,344	2,838	5,809	8,568	2,170	3,101	3,930	9,488	7,346	6,899
Below Normal (17%)	2,862	1,900	2,102	1,441	1,897	1,985	1,203	1,749	3,552	8,833	6,868	3,068
Dry (22%)	2,652	1,664	2,229	1,459	1,659	1,762	1,470	2,223	3,284	8,099	4,990	1,052
Critical (15%)	2,102	1,876	1,694	1,648	1,482	1,634	1,407	1,790	2,666	5,217	2,163	1,345

Alternative 8 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,791	2,500	2,918	16,444	19,365	15,193	12,649	11,282	6,211	3,571	2,928	4,276
20%	2,518	2,500	2,154	12,436	12,339	12,537	11,505	9,304	3,850	3,243	2,626	3,700
30%	2,213	2,083	1,700	8,307	11,114	10,575	9,803	6,845	2,856	2,944	2,241	2,394
40%	1,927	1,700	1,700	5,395	9,819	8,713	8,432	6,182	2,599	2,719	2,073	1,801
50%	1,700	1,700	1,700	4,127	7,630	7,641	7,233	4,666	2,455	2,380	1,800	1,264
60%	1,700	1,360	1,700	2,618	5,501	6,905	6,110	4,024	2,208	2,089	1,679	1,145
70%	1,700	1,200	1,200	1,981	4,659	5,677	5,013	3,664	2,098	1,963	1,557	1,000
80%	1,200	900	900	1,377	3,797	4,935	4,226	2,740	1,897	1,725	1,177	1,000
90%	900	900	800	802	2,155	3,348	3,243	1,809	1,776	1,510	1,000	773
Long Term												
Full Simulation Period[a]	1,874	1,671	2,713	7,371	8,994	9,559	7,812	5,922	3,016	2,680	1,958	2,017
Water Year Types[b]												
Wet (32%)	2,021	1,934	5,338	15,693	15,609	15,495	10,993	9,237	4,456	3,245	2,046	3,680
Above Normal (15%)	2,106	1,711	1,655	6,555	10,262	10,896	9,113	6,578	2,808	2,910	2,367	1,922
Below Normal (17%)	1,899	1,496	1,429	3,568	5,745	6,571	8,015	5,348	2,456	2,168	1,994	1,044
Dry (22%)	1,834	1,580	1,567	2,626	5,295	6,545	5,647	3,539	2,032	1,931	1,724	984
Critical (15%)	1,355	1,405	1,299	1,711	2,733	3,365	2,630	2,332	2,232	2,948	1,668	1,193

Alternative 8 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,209	-5	-1,700	1,628	-1,182	-792	4,226	5,003	1,367	-6,429	-4,764	-4,765
20%	-1,482	0	-1,581	8,210	-331	1,277	7,918	5,257	-518	-6,557	-4,591	-4,533
30%	-1,787	-417	-802	6,155	6,574	2,478	6,850	3,830	-1,144	-6,630	-4,795	-5,330
40%	-2,053	-800	0	3,695	6,713	3,646	6,413	3,528	-1,253	-6,538	-4,681	-4,417
50%	-1,690	0	0	2,427	5,624	4,984	5,869	2,465	-1,162	-6,579	-4,826	-2,145
60%	-56	-340	0	918	3,801	4,990	5,110	2,355	-1,225	-6,554	-4,635	-1,160
70%	42	-398	-500	631	2,959	3,977	4,013	2,594	-1,168	-6,323	-4,255	-362
80%	-64	-300	-300	477	2,597	3,548	3,226	1,740	-1,103	-5,702	-2,264	-7
90%	-99	-46	-100	-98	1,255	2,528	2,456	809	-561	-3,252	-130	-227
Long Term												
Full Simulation Period[a]	-873	-386	-124	2,376	2,551	2,656	4,728	2,917	-612	-5,477	-3,676	-2,584
Water Year Types[b]												
Wet (32%)	-1,030	-536	1,390	3,798	822	723	4,584	4,497	246	-5,333	-4,182	-4,647
Above Normal (15%)	-635	-409	-1,688	3,717	4,453	2,328	6,943	3,476	-1,122	-6,578	-4,978	-4,977
Below Normal (17%)	-963	-405	-673	2,127	3,848	4,587	6,811	3,599	-1,095	-6,664	-4,874	-2,024
Dry (22%)	-819	-84	-662	1,167	3,636	4,783	4,177	1,315	-1,251	-6,168	-3,267	-68
Critical (15%)	-747	-470	-395	63	1,251	1,731	1,223	543	-434	-2,269	-495	-152

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-17-25. Feather River d/s of Thermalito, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,000	2,505	4,618	14,816	20,547	15,985	8,424	6,279	4,845	10,000	7,691	9,042
20%	4,000	2,500	3,736	4,226	12,670	11,259	3,587	4,047	4,367	9,800	7,218	8,233
30%	4,000	2,500	2,502	2,152	4,539	8,097	2,954	3,015	4,001	9,574	7,036	7,724
40%	3,980	2,500	1,700	1,700	3,106	5,068	2,019	2,653	3,852	9,257	6,754	6,219
50%	3,390	1,700	1,700	1,700	2,007	2,657	1,364	2,202	3,617	8,959	6,626	3,408
60%	1,756	1,700	1,700	1,700	1,700	1,916	1,000	1,669	3,433	8,642	6,314	2,304
70%	1,658	1,598	1,700	1,350	1,700	1,700	1,000	1,070	3,267	8,287	5,812	1,362
80%	1,264	1,200	1,200	900	1,200	1,387	1,000	1,000	3,001	7,426	3,441	1,007
90%	999	946	900	900	900	820	787	1,000	2,337	4,762	1,130	1,000
Long Term												
Full Simulation Period[a]	2,747	2,058	2,837	4,995	6,444	6,902	3,084	3,005	3,628	8,157	5,634	4,601
Water Year Types[b]												
Wet (32%)	3,051	2,470	3,948	11,896	14,787	14,772	6,408	4,740	4,211	8,577	6,228	8,327
Above Normal (15%)	2,741	2,119	3,344	2,838	5,809	8,568	2,170	3,101	3,930	9,488	7,346	6,899
Below Normal (17%)	2,862	1,900	2,102	1,441	1,897	1,985	1,203	1,749	3,552	8,833	6,868	3,068
Dry (22%)	2,652	1,664	2,229	1,459	1,659	1,762	1,470	2,223	3,284	8,099	4,990	1,052
Critical (15%)	2,102	1,876	1,694	1,648	1,482	1,634	1,407	1,790	2,666	5,217	2,163	1,345

Alternative 9 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,000	2,512	4,545	14,819	20,314	15,885	8,424	6,262	4,855	10,000	7,579	9,939
20%	4,000	2,500	3,249	2,817	12,666	11,799	3,995	4,706	4,414	9,848	7,279	8,797
30%	4,000	2,500	2,726	2,086	6,829	8,081	3,170	3,994	4,064	9,413	7,093	7,999
40%	3,753	2,500	2,090	1,700	3,244	4,865	2,239	3,390	3,868	8,933	6,853	5,992
50%	1,879	1,703	1,700	1,700	1,990	2,845	1,502	2,859	3,686	8,478	6,495	3,453
60%	1,700	1,700	1,700	1,700	1,700	1,875	1,000	2,544	3,403	8,124	6,106	2,318
70%	1,555	1,696	1,700	1,401	1,700	1,700	1,000	1,698	3,184	7,642	5,645	1,121
80%	1,200	1,200	1,222	1,200	1,200	1,170	1,000	1,023	2,850	6,864	2,670	1,000
90%	911	930	930	900	900	800	993	1,000	2,311	2,701	1,397	1,000
Long Term												
Full Simulation Period[a]	2,572	2,032	2,895	4,979	6,447	6,822	3,181	3,473	3,593	7,730	5,619	4,691
Water Year Types[b]												
Wet (32%)	2,855	2,361	4,138	12,037	14,726	14,525	6,403	4,907	4,015	8,217	6,251	8,707
Above Normal (15%)	2,587	1,916	3,027	2,713	6,086	8,668	2,165	3,400	3,863	9,547	7,311	6,790
Below Normal (17%)	2,688	1,964	2,143	1,498	1,774	2,050	1,376	2,428	3,490	8,577	6,750	3,048
Dry (22%)	2,579	1,869	2,166	1,459	1,647	1,647	1,755	3,153	3,455	7,289	4,757	1,044
Critical (15%)	1,798	1,756	2,037	1,293	1,521	1,618	1,462	2,141	2,734	4,532	2,528	1,275

Alternative 9 (LLT) minus No Action Alternative (LLT)

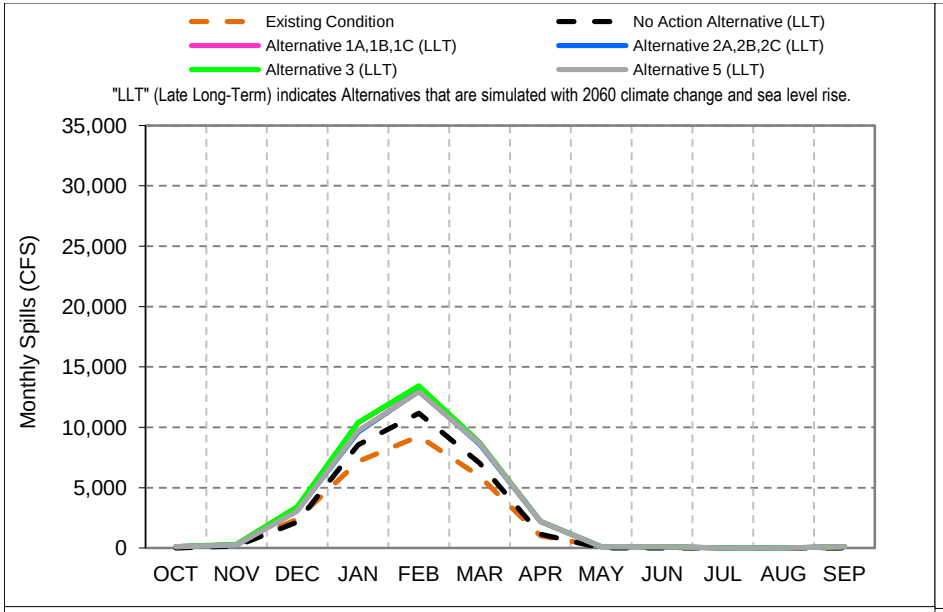
	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	6	-73	3	-233	-100	0	-17	11	0	-112	898
20%	0	0	-487	-1,409	-4	540	408	660	47	48	62	564
30%	0	0	225	-66	2,290	-16	217	978	64	-161	57	275
40%	-227	0	390	0	138	-202	220	736	16	-324	99	-227
50%	-1,510	3	0	0	-16	188	139	657	69	-481	-131	44
60%	-56	0	0	0	0	-40	0	875	-31	-518	-208	14
70%	-103	98	0	51	0	0	0	628	-82	-645	-167	-241
80%	-64	0	22	300	0	-217	0	23	-151	-563	-772	-7
90%	-89	-16	30	0	0	-20	206	0	-26	-2,060	267	0
Long Term												
Full Simulation Period[a]	-175	-26	58	-16	3	-80	97	468	-35	-427	-16	89
Water Year Types[b]												
Wet (32%)	-196	-109	190	142	-61	-247	-6	167	-196	-360	23	380
Above Normal (15%)	-155	-203	-317	-125	277	100	-5	298	-66	59	-35	-110
Below Normal (17%)	-173	64	42	57	-123	66	173	679	-62	-255	-118	-20
Dry (22%)	-73	205	-63	1	-13	-115	284	930	171	-810	-233	-8
Critical (15%)	-304	-119	343	-355	39	-15	55	351	68	-685	365	-69

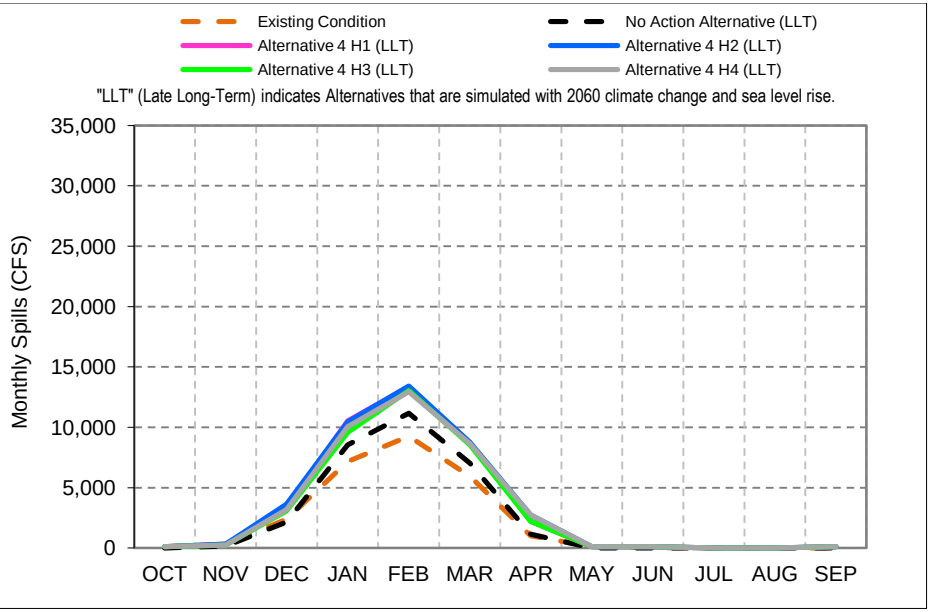
Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

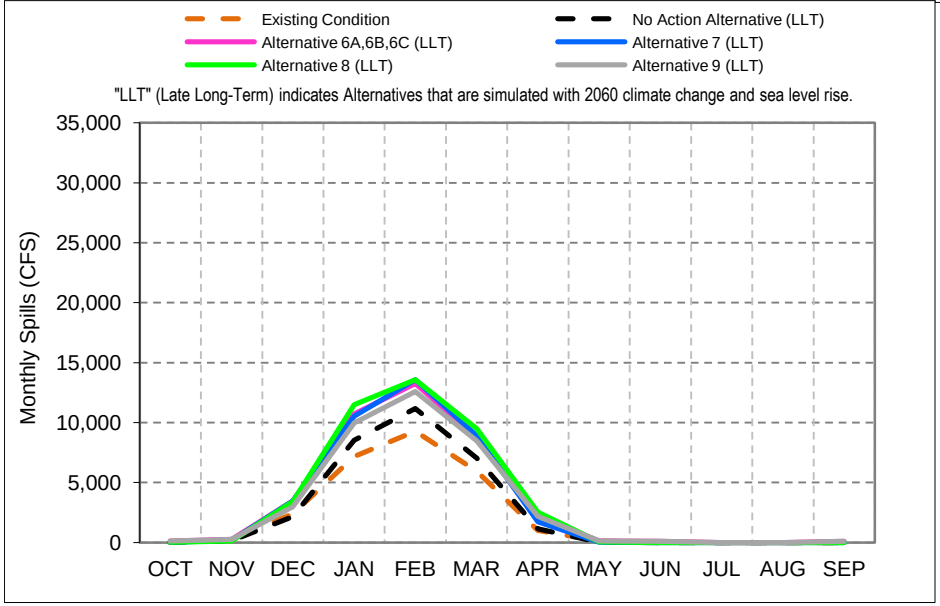
a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

C.18. Fremont Weir Spills



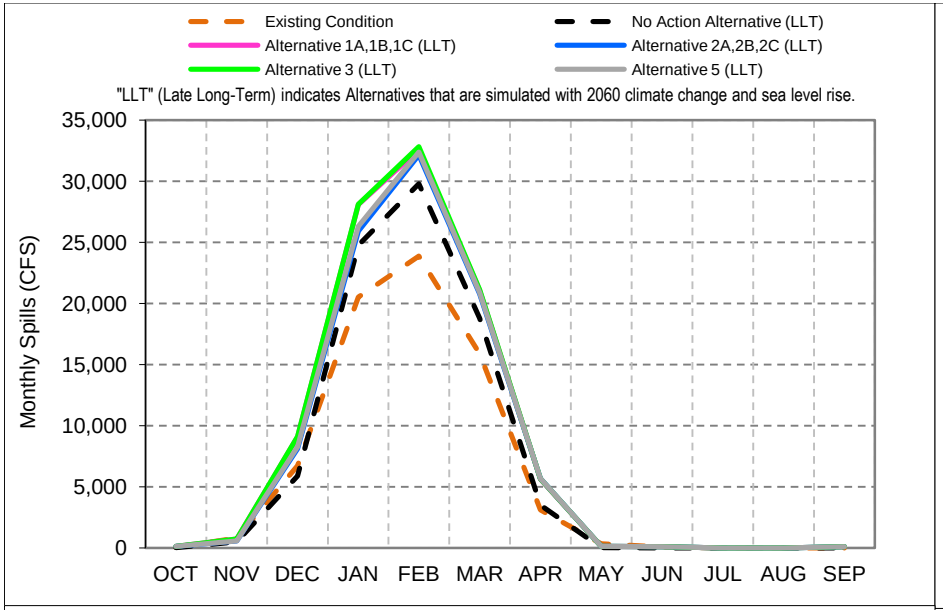


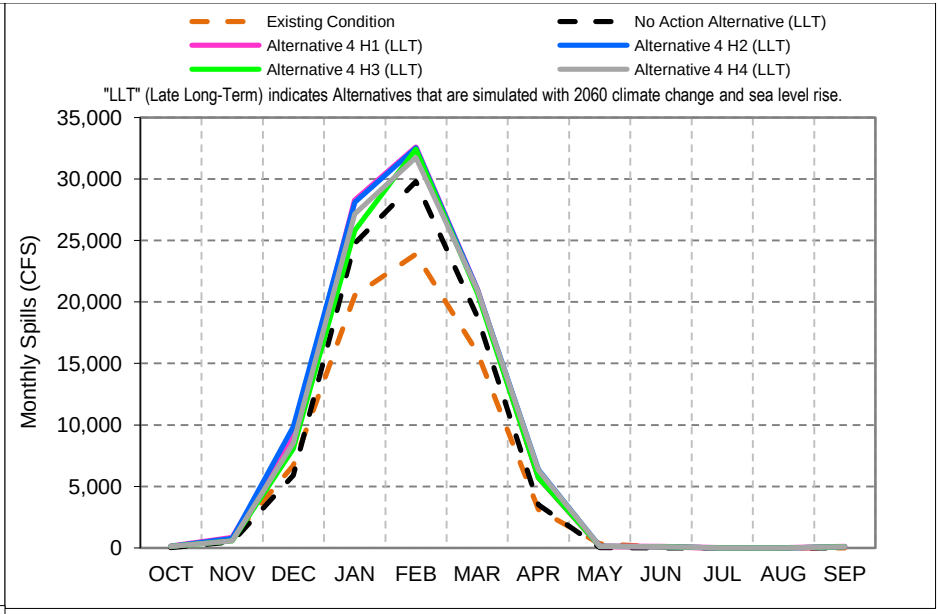


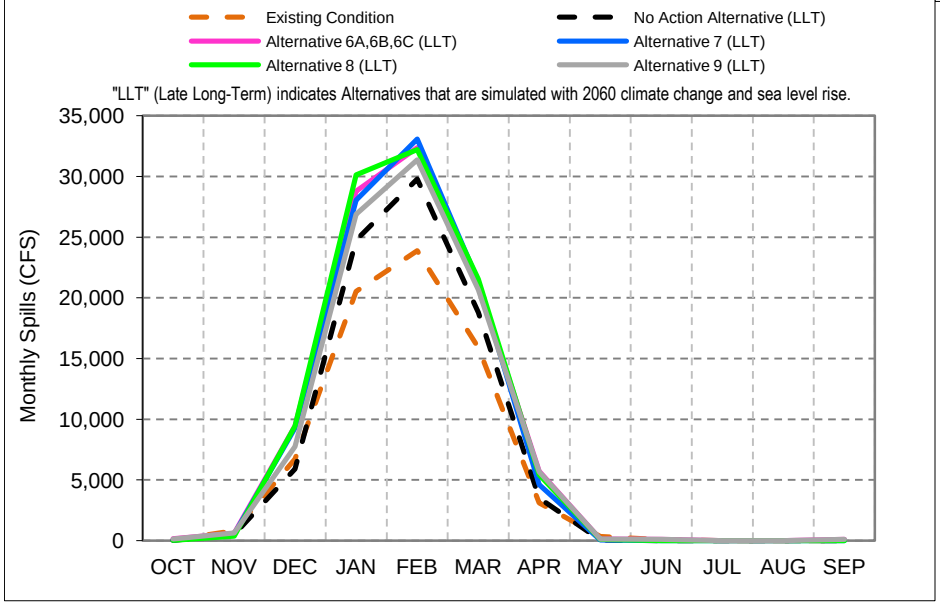
Alternative 4 Scenario Definitions:

H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

Figure C-18-1. Fremont Weir, Long-Term Average Spills





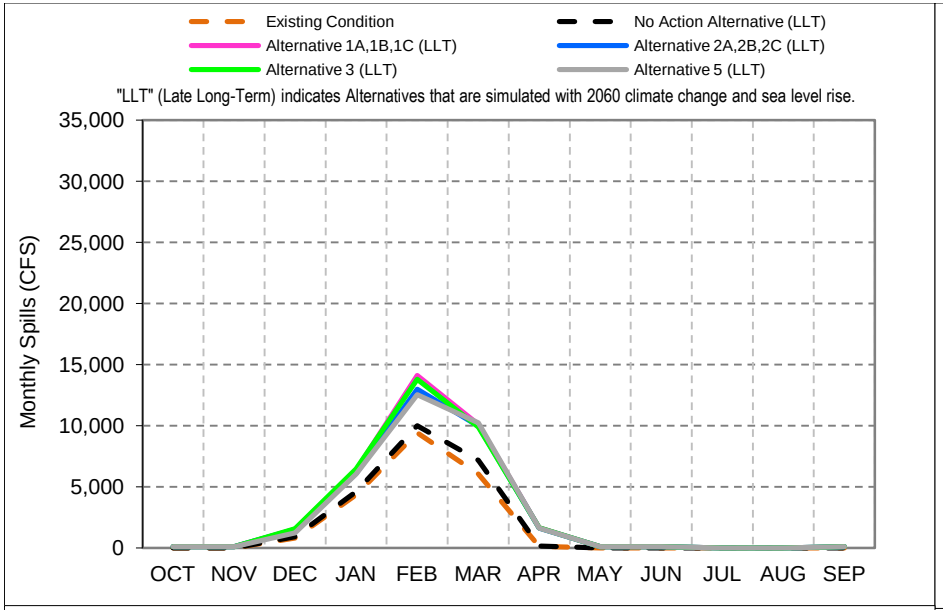


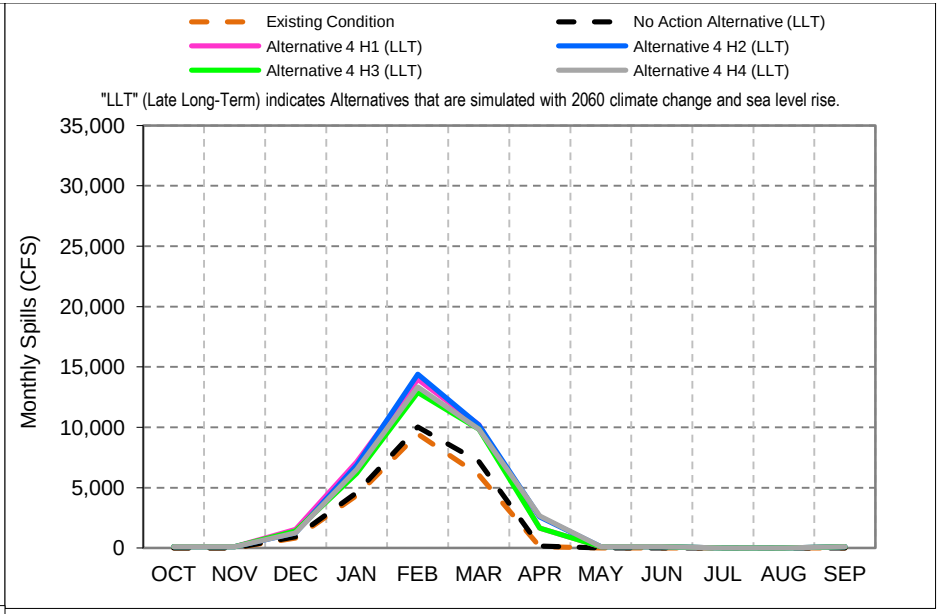
Alternative 4 Scenario Definitions:

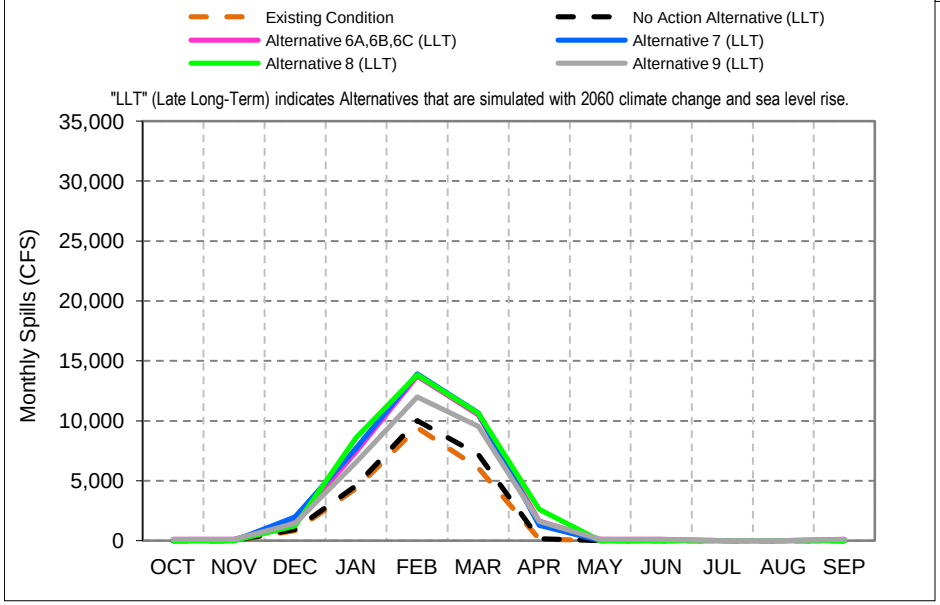
H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-18-2. Fremont Weir, Wet Year* Average Spills





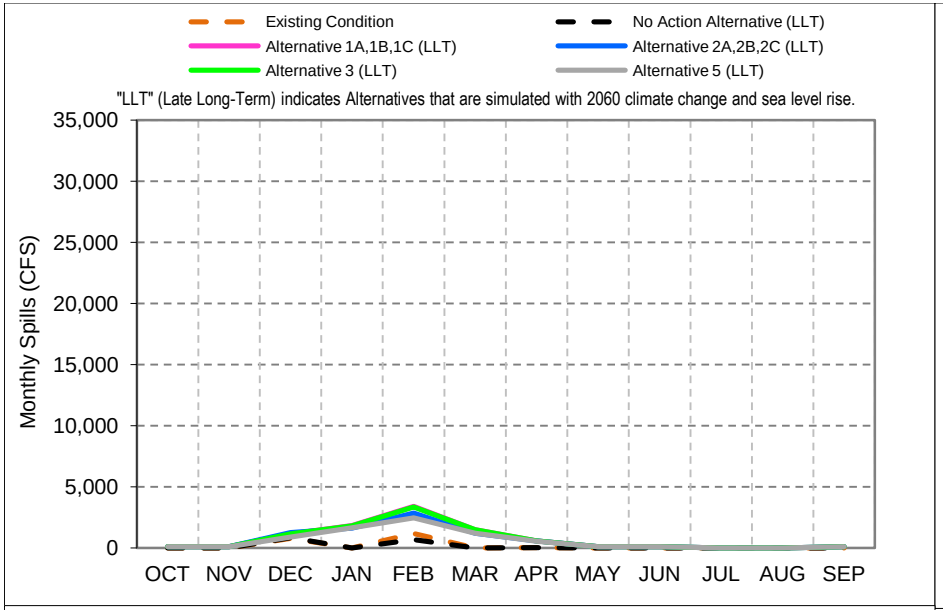


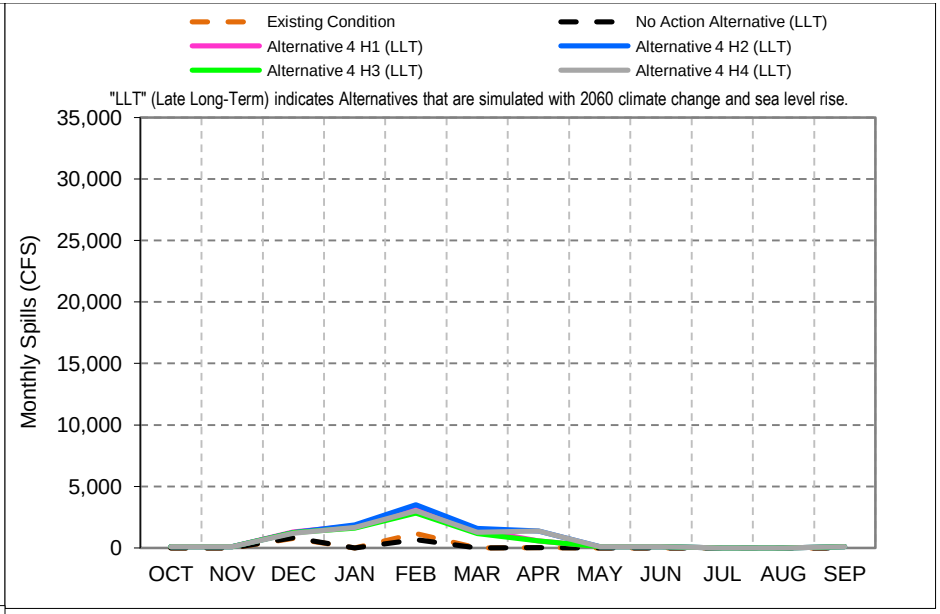
Alternative 4 Scenario Definitions:

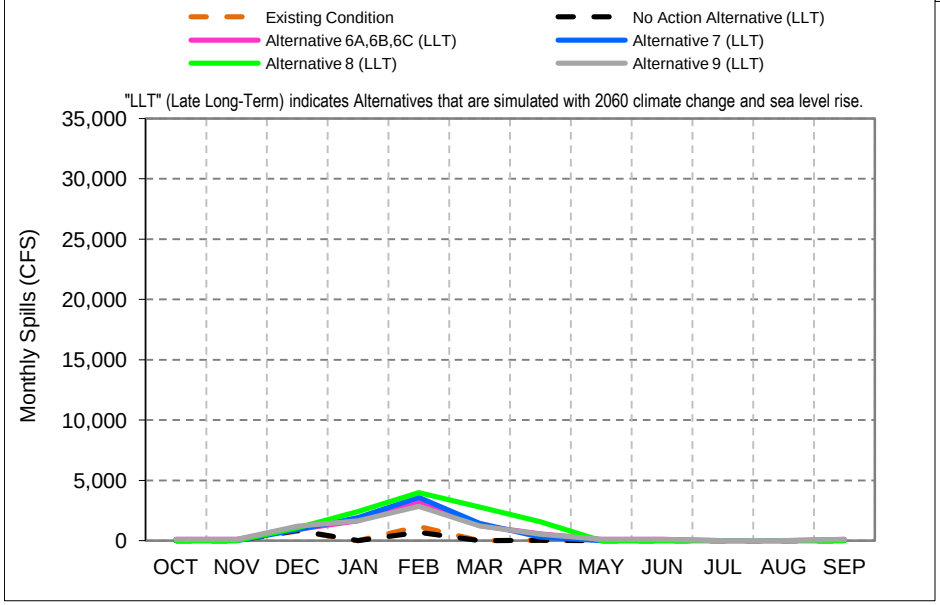
H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-18-3. Fremont Weir, Above Normal Year* Average Spills





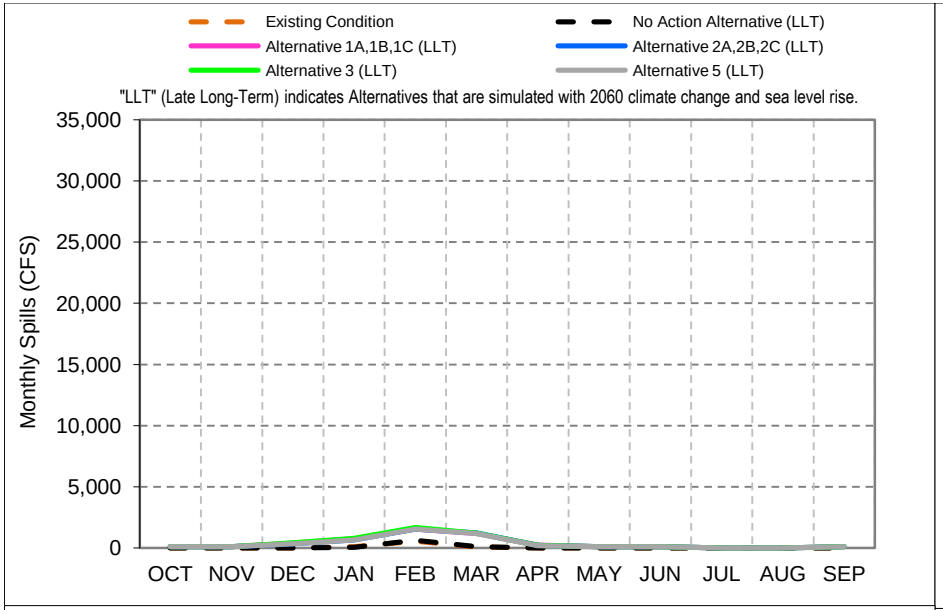


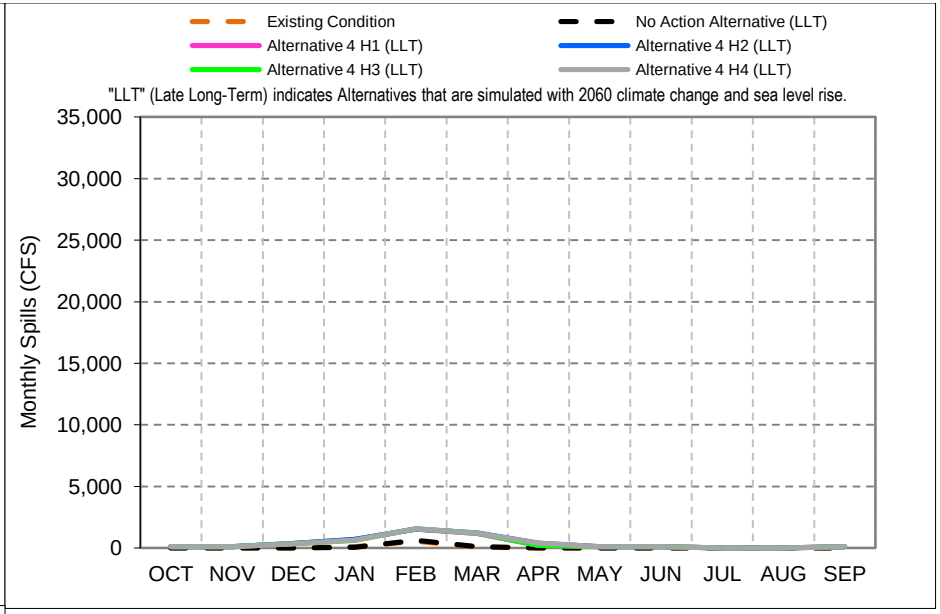
Alternative 4 Scenario Definitions:

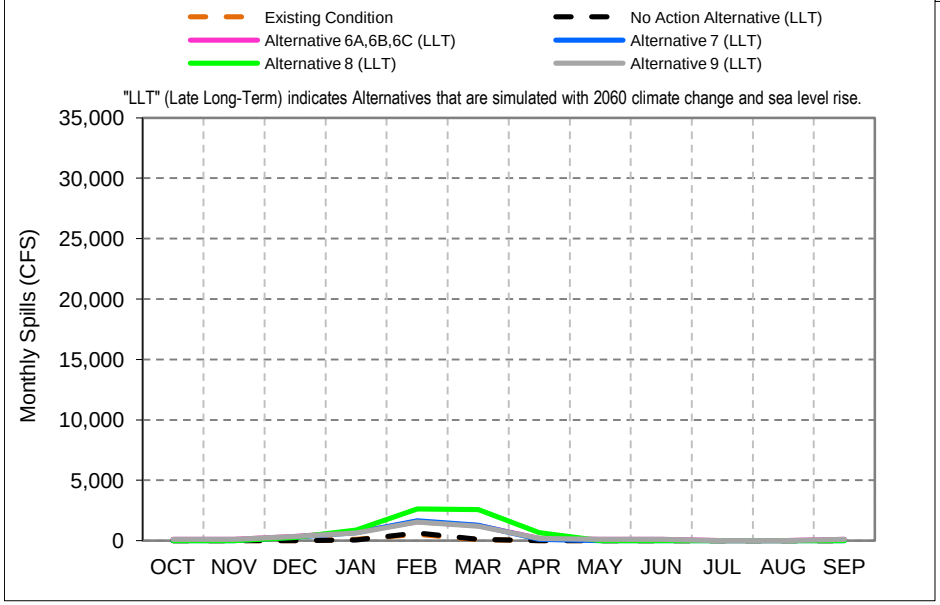
H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-18-4. Fremont Weir, Below Normal Year* Average Spills





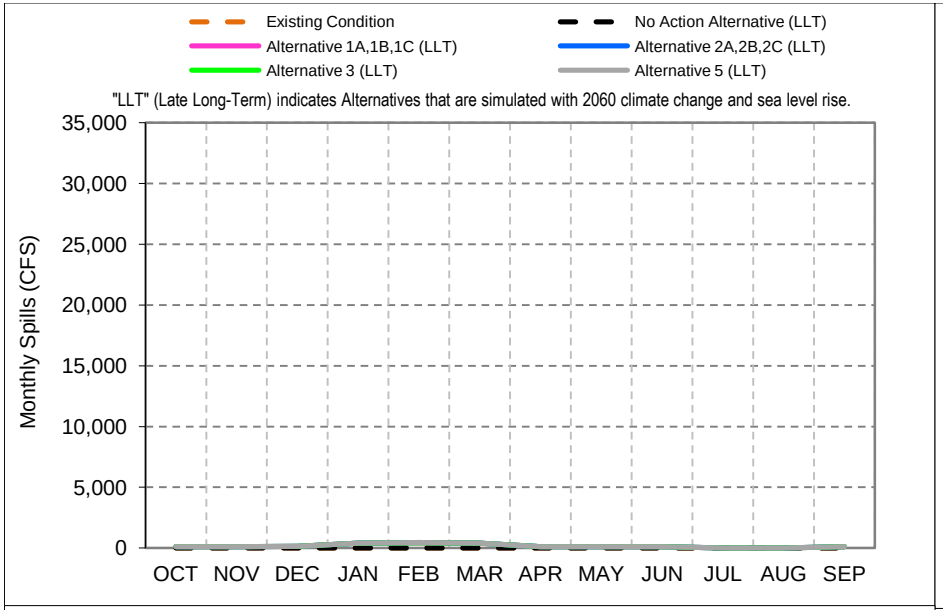


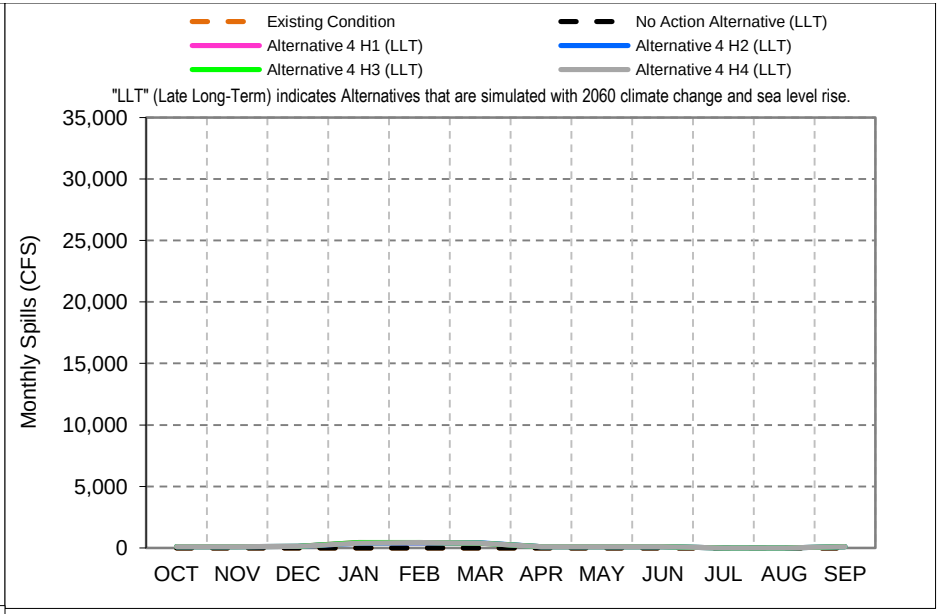
Alternative 4 Scenario Definitions:

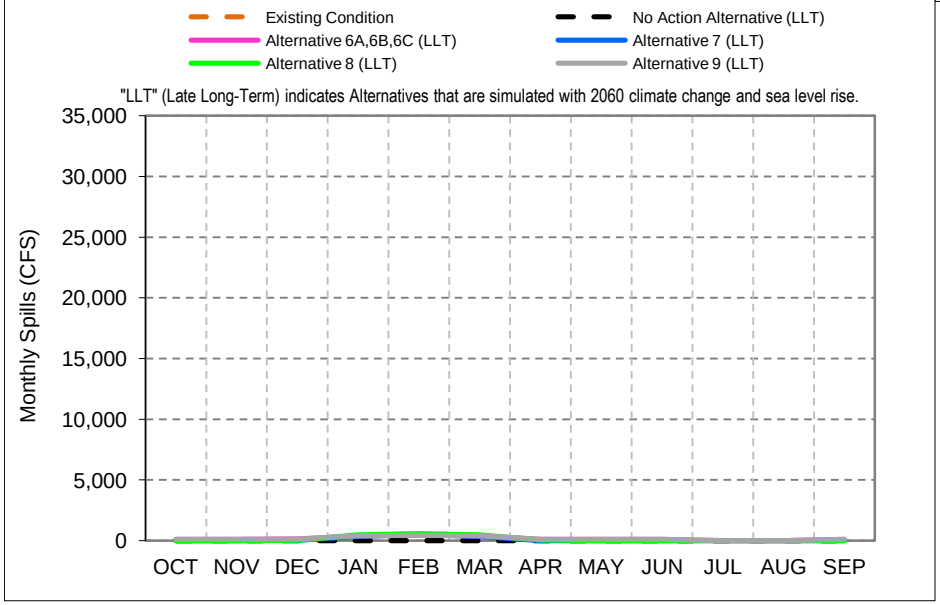
H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-18-5. Fremont Weir, Dry Year* Average Spills







Alternative 4 Scenario Definitions:

H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-18-6. Fremont Weir, Critical Year* Average Spills

Table C-18-1. Fremont Weir, Monthly Spills

Existing Condition

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	8,900	25,431	35,828	18,376	1,191	0	0	0	0	0
20%	0	0	163	6,615	10,476	4,328	0	0	0	0	0	0
30%	0	0	0	945	4,562	274	0	0	0	0	0	0
40%	0	0	0	0	1,014	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	17	263	2,388	7,170	9,269	5,946	1,014	110	26	0	0	0
Water Year Types[b]												
Wet (32%)	53	828	6,724	20,528	23,869	15,897	3,122	345	82	0	0	0
Above Normal (15%)	0	0	823	4,359	9,430	6,058	124	0	0	0	0	0
Below Normal (17%)	0	0	793	0	1,179	1	36	0	0	0	0	0
Dry (22%)	0	0	0	103	542	86	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

No Action Alternative (LLT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	5,079	23,714	42,108	17,813	1,744	0	0	0	0	0
20%	0	0	0	9,090	14,222	5,684	0	0	0	0	0	0
30%	0	0	0	849	3,953	621	0	0	0	0	0	0
40%	0	0	0	0	821	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	12	159	2,151	8,533	11,171	7,037	1,142	14	0	0	0	0
Water Year Types[b]												
Wet (32%)	39	502	5,906	24,758	29,796	18,802	3,513	43	0	0	0	0
Above Normal (15%)	0	0	926	4,602	10,011	7,175	158	0	0	0	0	0
Below Normal (17%)	0	0	839	0	691	5	28	0	0	0	0	0
Dry (22%)	0	0	0	45	641	111	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

No Action Alternative (LLT) minus Existing Condition

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	-3,822	-1,717	6,280	-564	554	0	0	0	0	0
20%	0	0	-163	2,475	3,746	1,356	0	0	0	0	0	0
30%	0	0	0	-97	-610	347	0	0	0	0	0	0
40%	0	0	0	0	-193	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	-4	-104	-236	1,364	1,903	1,091	128	-96	-26	0	0	0
Water Year Types[b]												
Wet (32%)	-14	-327	-818	4,229	5,927	2,905	391	-303	-82	0	0	0
Above Normal (15%)	0	0	103	242	581	1,117	34	0	0	0	0	0
Below Normal (17%)	0	0	46	0	-488	4	-8	0	0	0	0	0
Dry (22%)	0	0	0	-58	99	26	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-18-2. Fremont Weir, Monthly Spills

Existing Condition

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	8,900	25,431	35,828	18,376	1,191	0	0	0	0	0
20%	0	0	163	6,615	10,476	4,328	0	0	0	0	0	0
30%	0	0	0	945	4,562	274	0	0	0	0	0	0
40%	0	0	0	0	1,014	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	17	263	2,388	7,170	9,269	5,946	1,014	110	26	0	0	0
Water Year Types[b]												
Wet (32%)	53	828	6,724	20,528	23,869	15,897	3,122	345	82	0	0	0
Above Normal (15%)	0	0	823	4,359	9,430	6,058	124	0	0	0	0	0
Below Normal (17%)	0	0	793	0	1,179	1	36	0	0	0	0	0
Dry (22%)	0	0	0	103	542	86	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

Alternative 1A,1B,1C (LLT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	10,029	31,930	45,540	24,952	5,753	100	100	0	0	100
20%	100	100	2,878	11,974	15,547	8,001	4,022	100	100	0	0	100
30%	100	100	1,679	5,048	9,356	5,728	1,136	100	100	0	0	100
40%	100	100	649	2,896	5,237	3,657	375	100	100	0	0	100
50%	100	100	251	1,638	3,232	2,168	177	100	100	0	0	100
60%	100	100	113	1,079	1,961	1,359	119	100	100	0	0	100
70%	100	100	100	332	596	584	100	100	100	0	0	100
80%	100	100	100	108	143	150	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	113	302	3,409	10,373	13,383	8,736	2,195	113	100	0	0	100
Water Year Types[b]												
Wet (32%)	140	736	9,094	28,086	32,583	21,084	5,627	142	100	0	0	100
Above Normal (15%)	100	100	1,513	6,353	14,110	10,114	1,651	100	100	0	0	100
Below Normal (17%)	100	100	1,169	1,830	3,414	1,485	586	100	100	0	0	100
Dry (22%)	100	100	386	768	1,556	1,178	243	100	100	0	0	100
Critical (15%)	100	100	140	389	426	401	106	100	100	0	0	100

Alternative 1A,1B,1C (LLT) minus Existing Condition

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	1,129	6,499	9,712	6,575	4,562	100	100	0	0	100
20%	100	100	2,715	5,359	5,070	3,674	4,022	100	100	0	0	100
30%	100	100	1,679	4,103	4,794	5,453	1,136	100	100	0	0	100
40%	100	100	649	2,896	4,223	3,657	375	100	100	0	0	100
50%	100	100	251	1,638	3,232	2,168	177	100	100	0	0	100
60%	100	100	113	1,079	1,961	1,359	119	100	100	0	0	100
70%	100	100	100	332	596	584	100	100	100	0	0	100
80%	100	100	100	108	143	150	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	96	39	1,022	3,203	4,114	2,790	1,181	4	74	0	0	100
Water Year Types[b]												
Wet (32%)	87	-93	2,370	7,558	8,714	5,187	2,505	-203	18	0	0	100
Above Normal (15%)	100	100	689	1,994	4,680	4,056	1,527	100	100	0	0	100
Below Normal (17%)	100	100	376	1,830	2,235	1,484	550	100	100	0	0	100
Dry (22%)	100	100	386	665	1,014	1,092	243	100	100	0	0	100
Critical (15%)	100	100	140	389	426	401	106	100	100	0	0	100

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-18-3. Fremont Weir, Monthly Spills

Existing Condition

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	8,900	25,431	35,828	18,376	1,191	0	0	0	0	0
20%	0	0	163	6,615	10,476	4,328	0	0	0	0	0	0
30%	0	0	0	945	4,562	274	0	0	0	0	0	0
40%	0	0	0	0	1,014	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	17	263	2,388	7,170	9,269	5,946	1,014	110	26	0	0	0
Water Year Types[b]												
Wet (32%)	53	828	6,724	20,528	23,869	15,897	3,122	345	82	0	0	0
Above Normal (15%)	0	0	823	4,359	9,430	6,058	124	0	0	0	0	0
Below Normal (17%)	0	0	793	0	1,179	1	36	0	0	0	0	0
Dry (22%)	0	0	0	103	542	86	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

Alternative 2A,2B,2C (LLT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	7,400	25,432	42,356	21,378	5,749	100	100	0	0	100
20%	100	100	2,816	10,293	18,635	8,032	4,015	100	100	0	0	100
30%	100	100	1,397	5,412	7,436	5,732	1,134	100	100	0	0	100
40%	100	100	525	2,800	5,583	3,757	349	100	100	0	0	100
50%	100	100	216	1,448	3,244	1,736	113	100	100	0	0	100
60%	100	100	103	805	1,774	1,061	101	100	100	0	0	100
70%	100	100	100	178	640	548	100	100	100	0	0	100
80%	100	100	100	102	131	150	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	113	256	3,108	9,594	12,987	8,586	2,204	113	100	0	0	100
Water Year Types[b]												
Wet (32%)	142	591	8,123	25,924	32,140	20,785	5,693	142	100	0	0	100
Above Normal (15%)	100	100	1,520	6,113	12,998	9,967	1,627	100	100	0	0	100
Below Normal (17%)	100	100	1,260	1,630	2,849	1,212	569	100	100	0	0	100
Dry (22%)	100	100	338	655	1,557	1,233	221	100	100	0	0	100
Critical (15%)	100	100	139	390	452	404	106	100	100	0	0	100

Alternative 2A,2B,2C (LLT) minus Existing Condition

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	**-1,500**	1	6,528	3,001	4,559	100	100	0	0	100
20%	100	100	2,652	3,677	8,159	3,704	4,015	100	100	0	0	100
30%	100	100	1,397	4,467	2,874	5,458	1,134	100	100	0	0	100
40%	100	100	525	2,800	4,568	3,757	349	100	100	0	0	100
50%	100	100	216	1,448	3,244	1,736	113	100	100	0	0	100
60%	100	100	103	805	1,774	1,061	101	100	100	0	0	100
70%	100	100	100	178	640	548	100	100	100	0	0	100
80%	100	100	100	102	131	150	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	97	**-7**	720	2,424	3,719	2,640	1,190	4	74	0	0	100
Water Year Types[b]												
Wet (32%)	89	**-237**	1,399	5,396	8,271	4,888	2,571	**-204**	18	0	0	100
Above Normal (15%)	100	100	697	1,754	3,568	3,909	1,504	100	100	0	0	100
Below Normal (17%)	100	100	467	1,630	1,670	1,211	533	100	100	0	0	100
Dry (22%)	100	100	338	552	1,015	1,148	221	100	100	0	0	100
Critical (15%)	100	100	139	390	452	404	106	100	100	0	0	100

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-18-4. Fremont Weir, Monthly Spills

Existing Condition

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	8,900	25,431	35,828	18,376	1,191	0	0	0	0	0
20%	0	0	163	6,615	10,476	4,328	0	0	0	0	0	0
30%	0	0	0	945	4,562	274	0	0	0	0	0	0
40%	0	0	0	0	1,014	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	17	263	2,388	7,170	9,269	5,946	1,014	110	26	0	0	0
Water Year Types[b]												
Wet (32%)	53	828	6,724	20,528	23,869	15,897	3,122	345	82	0	0	0
Above Normal (15%)	0	0	823	4,359	9,430	6,058	124	0	0	0	0	0
Below Normal (17%)	0	0	793	0	1,179	1	36	0	0	0	0	0
Dry (22%)	0	0	0	103	542	86	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

Alternative 3 (LLT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	10,503	31,514	44,463	24,966	5,754	100	100	0	0	100
20%	100	100	2,874	12,482	15,542	8,071	4,006	100	100	0	0	100
30%	100	100	1,621	5,109	8,675	5,662	1,134	100	100	0	0	100
40%	100	100	578	3,087	5,122	3,657	354	100	100	0	0	100
50%	100	100	288	1,631	3,241	2,043	161	100	100	0	0	100
60%	100	100	139	1,090	1,962	1,323	111	100	100	0	0	100
70%	100	100	100	264	752	583	100	100	100	0	0	100
80%	100	100	100	101	140	176	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	113	303	3,428	10,404	13,435	8,731	2,195	114	100	0	0	100
Water Year Types[b]												
Wet (32%)	141	739	9,111	28,120	32,831	21,135	5,660	146	100	0	0	100
Above Normal (15%)	100	100	1,577	6,457	13,792	9,909	1,644	100	100	0	0	100
Below Normal (17%)	100	100	1,153	1,816	3,362	1,500	570	100	100	0	0	100
Dry (22%)	100	100	415	801	1,689	1,200	215	100	100	0	0	100
Critical (15%)	100	100	141	389	426	407	106	100	100	0	0	100

Alternative 3 (LLT) minus Existing Condition

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	1,603	6,083	8,635	6,589	4,563	100	100	0	0	100
20%	100	100	2,710	5,867	5,066	3,743	4,006	100	100	0	0	100
30%	100	100	1,621	4,164	4,113	5,387	1,134	100	100	0	0	100
40%	100	100	578	3,087	4,108	3,657	354	100	100	0	0	100
50%	100	100	288	1,631	3,241	2,043	161	100	100	0	0	100
60%	100	100	139	1,090	1,962	1,323	111	100	100	0	0	100
70%	100	100	100	264	752	583	100	100	100	0	0	100
80%	100	100	100	101	140	176	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	96	40	1,041	3,234	4,167	2,784	1,181	5	74	0	0	100
Water Year Types[b]												
Wet (32%)	88	-90	2,388	7,592	8,962	5,237	2,538	-200	18	0	0	100
Above Normal (15%)	100	100	754	2,098	4,362	3,851	1,520	100	100	0	0	100
Below Normal (17%)	100	100	360	1,816	2,183	1,499	533	100	100	0	0	100
Dry (22%)	100	100	415	698	1,147	1,114	215	100	100	0	0	100
Critical (15%)	100	100	141	389	426	407	106	100	100	0	0	100

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-18-5. Fremont Weir, Monthly Spills

Existing Condition

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	8,900	25,431	35,828	18,376	1,191	0	0	0	0	0
20%	0	0	163	6,615	10,476	4,328	0	0	0	0	0	0
30%	0	0	0	945	4,562	274	0	0	0	0	0	0
40%	0	0	0	0	1,014	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	17	263	2,388	7,170	9,269	5,946	1,014	110	26	0	0	0
Water Year Types[b]												
Wet (32%)	53	828	6,724	20,528	23,869	15,897	3,122	345	82	0	0	0
Above Normal (15%)	0	0	823	4,359	9,430	6,058	124	0	0	0	0	0
Below Normal (17%)	0	0	793	0	1,179	1	36	0	0	0	0	0
Dry (22%)	0	0	0	103	542	86	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

Alternative 4 H1 (LLT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	9,689	32,168	45,187	24,910	5,751	100	100	0	0	100
20%	100	100	3,092	13,396	15,544	8,025	4,014	100	100	0	0	100
30%	100	100	1,430	5,512	8,531	5,730	1,128	100	100	0	0	100
40%	100	100	526	3,012	5,583	3,758	352	100	100	0	0	100
50%	100	100	247	1,668	3,246	1,978	114	100	100	0	0	100
60%	100	100	128	1,042	2,002	1,304	101	100	100	0	0	100
70%	100	100	100	267	718	564	100	100	100	0	0	100
80%	100	100	100	114	143	150	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	113	333	3,406	10,527	13,365	8,722	2,215	113	100	0	0	100
Water Year Types[b]												
Wet (32%)	141	836	9,004	28,253	32,573	21,004	5,723	142	100	0	0	100
Above Normal (15%)	100	100	1,550	7,139	13,981	10,209	1,646	100	100	0	0	100
Below Normal (17%)	100	100	1,313	1,792	3,443	1,461	568	100	100	0	0	100
Dry (22%)	100	100	358	691	1,550	1,185	215	100	100	0	0	100
Critical (15%)	100	100	144	455	425	402	106	100	100	0	0	100

Alternative 4 H1 (LLT) minus Existing Condition

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	789	6,736	9,359	6,533	4,560	100	100	0	0	100
20%	100	100	2,929	6,780	5,068	3,697	4,014	100	100	0	0	100
30%	100	100	1,430	4,567	3,968	5,455	1,128	100	100	0	0	100
40%	100	100	526	3,012	4,569	3,758	352	100	100	0	0	100
50%	100	100	247	1,668	3,246	1,978	114	100	100	0	0	100
60%	100	100	128	1,042	2,002	1,304	101	100	100	0	0	100
70%	100	100	100	267	718	564	100	100	100	0	0	100
80%	100	100	100	114	143	150	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	96	71	1,018	3,358	4,096	2,776	1,201	4	74	0	0	100
Water Year Types[b]												
Wet (32%)	88	7	2,281	7,725	8,704	5,107	2,601	**-204**	18	0	0	100
Above Normal (15%)	100	100	726	2,780	4,551	4,151	1,522	100	100	0	0	100
Below Normal (17%)	100	100	520	1,792	2,264	1,460	532	100	100	0	0	100
Dry (22%)	100	100	358	588	1,008	1,099	215	100	100	0	0	100
Critical (15%)	100	100	144	455	425	402	106	100	100	0	0	100

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-18-6. Fremont Weir, Monthly Spills

Existing Condition

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	8,900	25,431	35,828	18,376	1,191	0	0	0	0	0
20%	0	0	163	6,615	10,476	4,328	0	0	0	0	0	0
30%	0	0	0	945	4,562	274	0	0	0	0	0	0
40%	0	0	0	0	1,014	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	17	263	2,388	7,170	9,269	5,946	1,014	110	26	0	0	0
Water Year Types[b]												
Wet (32%)	53	828	6,724	20,528	23,869	15,897	3,122	345	82	0	0	0
Above Normal (15%)	0	0	823	4,359	9,430	6,058	124	0	0	0	0	0
Below Normal (17%)	0	0	793	0	1,179	1	36	0	0	0	0	0
Dry (22%)	0	0	0	103	542	86	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

Alternative 4 H2 (LLT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	11,926	35,516	45,448	24,886	5,790	100	100	0	0	100
20%	100	100	3,229	11,284	16,123	8,032	4,214	100	100	0	0	100
30%	100	100	1,599	5,554	8,977	5,418	3,270	100	100	0	0	100
40%	100	100	517	3,214	5,144	3,799	2,117	100	100	0	0	100
50%	100	100	225	1,728	3,251	1,981	839	100	100	0	0	100
60%	100	100	100	909	1,770	1,399	167	100	100	0	0	100
70%	100	100	100	268	569	539	100	100	100	0	0	100
80%	100	100	100	122	134	148	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	113	314	3,623	10,451	13,416	8,758	2,733	113	100	0	0	100
Water Year Types[b]												
Wet (32%)	141	776	9,864	28,095	32,506	21,030	6,365	142	100	0	0	100
Above Normal (15%)	100	100	1,244	6,870	14,404	10,174	2,566	100	100	0	0	100
Below Normal (17%)	100	100	1,249	1,890	3,506	1,583	1,396	100	100	0	0	100
Dry (22%)	100	100	363	712	1,549	1,226	391	100	100	0	0	100
Critical (15%)	100	100	141	398	427	418	106	100	100	0	0	100

Alternative 4 H2 (LLT) minus Existing Condition

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	3,025	10,085	9,620	6,509	4,599	100	100	0	0	100
20%	100	100	3,066	4,669	5,647	3,705	4,214	100	100	0	0	100
30%	100	100	1,599	4,609	4,415	5,144	3,270	100	100	0	0	100
40%	100	100	517	3,214	4,129	3,799	2,117	100	100	0	0	100
50%	100	100	225	1,728	3,251	1,981	839	100	100	0	0	100
60%	100	100	100	909	1,770	1,399	167	100	100	0	0	100
70%	100	100	100	268	569	539	100	100	100	0	0	100
80%	100	100	100	122	134	148	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	96	52	1,235	3,281	4,147	2,812	1,719	4	74	0	0	100
Water Year Types[b]												
Wet (32%)	89	-52	3,140	7,566	8,637	5,133	3,243	-203	18	0	0	100
Above Normal (15%)	100	100	420	2,511	4,974	4,116	2,442	100	100	0	0	100
Below Normal (17%)	100	100	456	1,890	2,327	1,582	1,359	100	100	0	0	100
Dry (22%)	100	100	363	609	1,007	1,141	391	100	100	0	0	100
Critical (15%)	100	100	141	398	427	418	106	100	100	0	0	100

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-18-7. Fremont Weir, Monthly Spills

Existing Condition

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	8,900	25,431	35,828	18,376	1,191	0	0	0	0	0
20%	0	0	163	6,615	10,476	4,328	0	0	0	0	0	0
30%	0	0	0	945	4,562	274	0	0	0	0	0	0
40%	0	0	0	0	1,014	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	17	263	2,388	7,170	9,269	5,946	1,014	110	26	0	0	0
Water Year Types[b]												
Wet (32%)	53	828	6,724	20,528	23,869	15,897	3,122	345	82	0	0	0
Above Normal (15%)	0	0	823	4,359	9,430	6,058	124	0	0	0	0	0
Below Normal (17%)	0	0	793	0	1,179	1	36	0	0	0	0	0
Dry (22%)	0	0	0	103	542	86	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

Alternative 4 H3 (LLT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	6,879	25,466	43,746	21,552	5,748	100	100	0	0	100
20%	100	100	2,770	11,310	17,192	8,031	4,013	100	100	0	0	100
30%	100	100	1,461	5,420	7,472	5,727	1,095	100	100	0	0	100
40%	100	100	518	2,795	5,582	3,757	349	100	100	0	0	100
50%	100	100	182	1,462	3,247	1,735	113	100	100	0	0	100
60%	100	100	107	911	1,775	964	101	100	100	0	0	100
70%	100	100	100	199	609	454	100	100	100	0	0	100
80%	100	100	100	103	131	177	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	113	253	3,075	9,568	13,055	8,532	2,206	113	100	0	0	100
Water Year Types[b]												
Wet (32%)	141	581	8,075	25,795	32,418	20,724	5,692	141	100	0	0	100
Above Normal (15%)	100	100	1,421	6,176	12,875	9,851	1,636	100	100	0	0	100
Below Normal (17%)	100	100	1,241	1,630	2,838	1,171	580	100	100	0	0	100
Dry (22%)	100	100	337	637	1,552	1,188	216	100	100	0	0	100
Critical (15%)	100	100	144	457	452	402	106	100	100	0	0	100

Alternative 4 H3 (LLT) minus Existing Condition

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	**-2,022**	35	7,918	3,176	4,557	100	100	0	0	100
20%	100	100	2,607	4,694	6,715	3,703	4,013	100	100	0	0	100
30%	100	100	1,461	4,474	2,910	5,453	1,095	100	100	0	0	100
40%	100	100	518	2,795	4,568	3,757	349	100	100	0	0	100
50%	100	100	182	1,462	3,247	1,735	113	100	100	0	0	100
60%	100	100	107	911	1,775	964	101	100	100	0	0	100
70%	100	100	100	199	609	454	100	100	100	0	0	100
80%	100	100	100	103	131	177	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	96	**-10**	688	2,398	3,786	2,586	1,192	4	74	0	0	100
Water Year Types[b]												
Wet (32%)	88	**-247**	1,352	5,266	8,549	4,827	2,570	**-204**	18	0	0	100
Above Normal (15%)	100	100	597	1,817	3,445	3,793	1,513	100	100	0	0	100
Below Normal (17%)	100	100	448	1,630	1,659	1,171	544	100	100	0	0	100
Dry (22%)	100	100	337	534	1,010	1,103	216	100	100	0	0	100
Critical (15%)	100	100	144	457	452	402	106	100	100	0	0	100

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-18-8. Fremont Weir, Monthly Spills

Existing Condition

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	8,900	25,431	35,828	18,376	1,191	0	0	0	0	0
20%	0	0	163	6,615	10,476	4,328	0	0	0	0	0	0
30%	0	0	0	945	4,562	274	0	0	0	0	0	0
40%	0	0	0	0	1,014	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	17	263	2,388	7,170	9,269	5,946	1,014	110	26	0	0	0
Water Year Types[b]												
Wet (32%)	53	828	6,724	20,528	23,869	15,897	3,122	345	82	0	0	0
Above Normal (15%)	0	0	823	4,359	9,430	6,058	124	0	0	0	0	0
Below Normal (17%)	0	0	793	0	1,179	1	36	0	0	0	0	0
Dry (22%)	0	0	0	103	542	86	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

Alternative 4 H4 (LLT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	8,413	30,882	45,350	25,003	5,789	100	100	0	0	100
20%	100	100	2,842	11,400	15,523	8,032	4,172	100	100	0	0	100
30%	100	100	1,455	5,394	7,289	5,578	3,270	100	100	0	0	100
40%	100	100	513	2,865	5,330	3,657	2,122	100	100	0	0	100
50%	100	100	164	1,451	3,250	1,782	825	100	100	0	0	100
60%	100	100	100	747	1,711	917	166	100	100	0	0	100
70%	100	100	100	139	555	428	100	100	100	0	0	100
80%	100	100	100	101	126	149	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	113	255	3,187	10,048	12,937	8,640	2,734	114	100	0	0	100
Water Year Types[b]												
Wet (32%)	142	590	8,524	27,172	31,738	20,999	6,333	143	100	0	0	100
Above Normal (15%)	100	100	1,259	6,494	13,332	9,832	2,654	100	100	0	0	100
Below Normal (17%)	100	100	1,194	1,679	3,016	1,275	1,383	100	100	0	0	100
Dry (22%)	100	100	344	631	1,553	1,211	389	100	100	0	0	100
Critical (15%)	100	100	139	389	456	404	106	100	100	0	0	100

Alternative 4 H4 (LLT) minus Existing Condition

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	-487	5,451	9,522	6,626	4,598	100	100	0	0	100
20%	100	100	2,679	4,785	5,047	3,704	4,172	100	100	0	0	100
30%	100	100	1,455	4,449	2,726	5,304	3,270	100	100	0	0	100
40%	100	100	513	2,865	4,315	3,657	2,122	100	100	0	0	100
50%	100	100	164	1,451	3,250	1,782	825	100	100	0	0	100
60%	100	100	100	747	1,711	917	166	100	100	0	0	100
70%	100	100	100	139	555	428	100	100	100	0	0	100
80%	100	100	100	101	126	149	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	97	-7	799	2,879	3,668	2,693	1,719	4	74	0	0	100
Water Year Types[b]												
Wet (32%)	89	-238	1,800	6,644	7,869	5,101	3,211	-203	18	0	0	100
Above Normal (15%)	100	100	435	2,135	3,902	3,774	2,530	100	100	0	0	100
Below Normal (17%)	100	100	401	1,679	1,837	1,274	1,347	100	100	0	0	100
Dry (22%)	100	100	344	528	1,011	1,125	389	100	100	0	0	100
Critical (15%)	100	100	139	389	456	404	106	100	100	0	0	100

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-18-9. Fremont Weir, Monthly Spills

Existing Condition

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	8,900	25,431	35,828	18,376	1,191	0	0	0	0	0
20%	0	0	163	6,615	10,476	4,328	0	0	0	0	0	0
30%	0	0	0	945	4,562	274	0	0	0	0	0	0
40%	0	0	0	0	1,014	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	17	263	2,388	7,170	9,269	5,946	1,014	110	26	0	0	0
Water Year Types[b]												
Wet (32%)	53	828	6,724	20,528	23,869	15,897	3,122	345	82	0	0	0
Above Normal (15%)	0	0	823	4,359	9,430	6,058	124	0	0	0	0	0
Below Normal (17%)	0	0	793	0	1,179	1	36	0	0	0	0	0
Dry (22%)	0	0	0	103	542	86	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

Alternative 5 (LLT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	7,350	25,360	42,440	24,155	5,747	100	100	0	0	100
20%	100	100	2,901	10,481	18,678	8,061	4,024	100	100	0	0	100
30%	100	100	1,387	5,525	7,803	5,727	1,052	100	100	0	0	100
40%	100	100	492	2,844	4,731	3,757	305	100	100	0	0	100
50%	100	100	212	1,477	3,165	1,740	130	100	100	0	0	100
60%	100	100	104	786	1,779	982	100	100	100	0	0	100
70%	100	100	100	260	593	474	100	100	100	0	0	100
80%	100	100	100	101	126	150	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	113	249	3,054	9,712	12,934	8,648	2,198	113	100	0	0	100
Water Year Types[b]												
Wet (32%)	142	571	8,272	26,319	32,393	20,896	5,694	141	100	0	0	100
Above Normal (15%)	100	100	1,241	6,053	12,553	10,232	1,631	100	100	0	0	100
Below Normal (17%)	100	100	900	1,644	2,457	1,207	555	100	100	0	0	100
Dry (22%)	100	100	343	652	1,549	1,185	194	100	100	0	0	100
Critical (15%)	100	100	139	395	453	403	110	100	100	0	0	100

Alternative 5 (LLT) minus Existing Condition

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	**-1,550**	**-71**	6,612	5,778	4,556	100	100	0	0	100
20%	100	100	2,738	3,865	8,202	3,733	4,024	100	100	0	0	100
30%	100	100	1,387	4,580	3,241	5,453	1,052	100	100	0	0	100
40%	100	100	492	2,844	3,716	3,757	305	100	100	0	0	100
50%	100	100	212	1,477	3,165	1,740	130	100	100	0	0	100
60%	100	100	104	786	1,779	982	100	100	100	0	0	100
70%	100	100	100	260	593	474	100	100	100	0	0	100
80%	100	100	100	101	126	150	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	97	**-13**	666	2,543	3,665	2,702	1,183	4	74	0	0	100
Water Year Types[b]												
Wet (32%)	89	**-257**	1,549	5,790	8,524	4,998	2,572	**-204**	18	0	0	100
Above Normal (15%)	100	100	418	1,693	3,123	4,174	1,507	100	100	0	0	100
Below Normal (17%)	100	100	107	1,644	1,278	1,206	518	100	100	0	0	100
Dry (22%)	100	100	343	549	1,007	1,099	194	100	100	0	0	100
Critical (15%)	100	100	139	395	453	403	110	100	100	0	0	100

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-18-10. Fremont Weir, Monthly Spills

Existing Condition

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	8,900	25,431	35,828	18,376	1,191	0	0	0	0	0
20%	0	0	163	6,615	10,476	4,328	0	0	0	0	0	0
30%	0	0	0	945	4,562	274	0	0	0	0	0	0
40%	0	0	0	0	1,014	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	17	263	2,388	7,170	9,269	5,946	1,014	110	26	0	0	0
Water Year Types[b]												
Wet (32%)	53	828	6,724	20,528	23,869	15,897	3,122	345	82	0	0	0
Above Normal (15%)	0	0	823	4,359	9,430	6,058	124	0	0	0	0	0
Below Normal (17%)	0	0	793	0	1,179	1	36	0	0	0	0	0
Dry (22%)	0	0	0	103	542	86	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

Alternative 6A,6B,6C (LLT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	9,377	27,615	45,151	22,878	5,755	100	100	0	0	100
20%	100	100	3,229	12,119	15,529	8,213	4,038	100	100	0	0	100
30%	100	100	1,330	5,548	8,683	5,737	953	100	100	0	0	100
40%	100	100	511	2,776	5,456	3,736	313	100	100	0	0	100
50%	100	100	186	1,461	3,315	1,781	110	100	100	0	0	100
60%	100	100	100	833	1,906	1,033	100	100	100	0	0	100
70%	100	100	100	145	487	519	100	100	100	0	0	100
80%	100	100	100	100	132	177	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	119	262	3,470	10,711	13,248	8,755	2,201	115	100	0	0	100
Water Year Types[b]												
Wet (32%)	159	611	9,440	28,783	32,380	21,060	5,714	146	100	0	0	100
Above Normal (15%)	100	100	1,520	7,422	13,722	10,486	1,632	100	100	0	0	100
Below Normal (17%)	100	100	931	1,648	3,266	1,238	547	100	100	0	0	100
Dry (22%)	100	100	341	730	1,574	1,241	189	100	100	0	0	100
Critical (15%)	100	100	137	391	479	403	106	100	100	0	0	100

Alternative 6A,6B,6C (LLT) minus Existing Condition

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	477	2,184	9,323	4,502	4,564	100	100	0	0	100
20%	100	100	3,066	5,504	5,053	3,885	4,038	100	100	0	0	100
30%	100	100	1,330	4,603	4,120	5,463	953	100	100	0	0	100
40%	100	100	511	2,776	4,441	3,736	313	100	100	0	0	100
50%	100	100	186	1,461	3,315	1,781	110	100	100	0	0	100
60%	100	100	100	833	1,906	1,033	100	100	100	0	0	100
70%	100	100	100	145	487	519	100	100	100	0	0	100
80%	100	100	100	100	132	177	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	102	-1	1,082	3,542	3,980	2,809	1,187	5	74	0	0	100
Water Year Types[b]												
Wet (32%)	106	-217	2,717	8,255	8,511	5,163	2,592	-199	18	0	0	100
Above Normal (15%)	100	100	696	3,063	4,292	4,428	1,509	100	100	0	0	100
Below Normal (17%)	100	100	138	1,648	2,087	1,237	511	100	100	0	0	100
Dry (22%)	100	100	341	627	1,032	1,155	189	100	100	0	0	100
Critical (15%)	100	100	137	391	479	403	106	100	100	0	0	100

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-18-11. Fremont Weir, Monthly Spills

Existing Condition

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	8,900	25,431	35,828	18,376	1,191	0	0	0	0	0
20%	0	0	163	6,615	10,476	4,328	0	0	0	0	0	0
30%	0	0	0	945	4,562	274	0	0	0	0	0	0
40%	0	0	0	0	1,014	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	17	263	2,388	7,170	9,269	5,946	1,014	110	26	0	0	0
Water Year Types[b]												
Wet (32%)	53	828	6,724	20,528	23,869	15,897	3,122	345	82	0	0	0
Above Normal (15%)	0	0	823	4,359	9,430	6,058	124	0	0	0	0	0
Below Normal (17%)	0	0	793	0	1,179	1	36	0	0	0	0	0
Dry (22%)	0	0	0	103	542	86	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

Alternative 7 (LLT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	10,401	25,900	45,813	20,330	4,000	0	0	0	0	0
20%	0	0	3,746	12,188	15,942	8,517	2,498	0	0	0	0	0
30%	0	0	1,462	6,627	8,821	7,000	797	0	0	0	0	0
40%	0	0	439	3,299	6,478	4,653	111	0	0	0	0	0
50%	0	0	87	1,717	4,103	2,075	9	0	0	0	0	0
60%	0	0	2	852	1,721	819	0	0	0	0	0	0
70%	0	0	0	77	765	498	0	0	0	0	0	0
80%	0	0	0	6	47	100	0	0	0	0	0	0
90%	0	0	0	0	1	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	13	169	3,453	10,543	13,575	8,901	1,722	15	0	0	0	0
Water Year Types[b]												
Wet (32%)	42	532	9,276	28,039	33,084	21,322	4,613	46	0	0	0	0
Above Normal (15%)	0	0	1,970	7,711	13,923	10,650	1,275	0	0	0	0	0
Below Normal (17%)	0	0	904	1,917	3,588	1,447	290	0	0	0	0	0
Dry (22%)	0	0	288	662	1,646	1,285	101	0	0	0	0	0
Critical (15%)	0	0	41	349	501	357	7	0	0	0	0	0

Alternative 7 (LLT) minus Existing Condition

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	1,501	469	9,985	1,954	2,809	0	0	0	0	0
20%	0	0	3,583	5,573	5,466	4,189	2,498	0	0	0	0	0
30%	0	0	1,462	5,682	4,259	6,726	797	0	0	0	0	0
40%	0	0	439	3,299	5,463	4,653	111	0	0	0	0	0
50%	0	0	87	1,717	4,103	2,075	9	0	0	0	0	0
60%	0	0	2	852	1,721	819	0	0	0	0	0	0
70%	0	0	0	77	765	498	0	0	0	0	0	0
80%	0	0	0	6	47	100	0	0	0	0	0	0
90%	0	0	0	0	1	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	-3	-94	1,065	3,373	4,306	2,954	708	-95	-26	0	0	0
Water Year Types[b]												
Wet (32%)	-10	-297	2,553	7,511	9,215	5,424	1,491	-299	-82	0	0	0
Above Normal (15%)	0	0	1,147	3,352	4,493	4,592	1,152	0	0	0	0	0
Below Normal (17%)	0	0	111	1,917	2,409	1,446	254	0	0	0	0	0
Dry (22%)	0	0	288	559	1,104	1,199	101	0	0	0	0	0
Critical (15%)	0	0	41	349	501	357	7	0	0	0	0	0

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-18-12. Fremont Weir, Monthly Spills

Existing Condition

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	8,900	25,431	35,828	18,376	1,191	0	0	0	0	0
20%	0	0	163	6,615	10,476	4,328	0	0	0	0	0	0
30%	0	0	0	945	4,562	274	0	0	0	0	0	0
40%	0	0	0	0	1,014	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	17	263	2,388	7,170	9,269	5,946	1,014	110	26	0	0	0
Water Year Types[b]												
Wet (32%)	53	828	6,724	20,528	23,869	15,897	3,122	345	82	0	0	0
Above Normal (15%)	0	0	823	4,359	9,430	6,058	124	0	0	0	0	0
Below Normal (17%)	0	0	793	0	1,179	1	36	0	0	0	0	0
Dry (22%)	0	0	0	103	542	86	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

Alternative 8 (LLT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	7,994	36,016	42,501	21,804	6,114	0	0	0	0	0
20%	0	0	3,507	13,965	16,257	9,107	3,812	0	0	0	0	0
30%	0	0	1,563	7,246	9,683	7,315	2,865	0	0	0	0	0
40%	0	0	395	3,917	7,125	5,286	1,462	0	0	0	0	0
50%	0	0	92	2,444	4,571	3,836	754	0	0	0	0	0
60%	0	0	2	1,451	3,164	2,723	469	0	0	0	0	0
70%	0	0	0	119	1,489	1,335	132	0	0	0	0	0
80%	0	0	0	9	289	360	22	0	0	0	0	0
90%	0	0	0	0	3	23	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	13	122	3,418	11,491	13,579	9,495	2,522	35	0	0	0	0
Water Year Types[b]												
Wet (32%)	40	384	9,444	30,139	32,208	21,535	5,424	111	0	0	0	0
Above Normal (15%)	0	0	1,223	8,597	13,837	10,622	2,612	0	0	0	0	0
Below Normal (17%)	0	0	1,064	2,427	3,983	2,785	1,563	0	0	0	0	0
Dry (22%)	0	0	266	886	2,633	2,581	658	0	0	0	0	0
Critical (15%)	0	0	34	466	571	481	62	0	0	0	0	0

Alternative 8 (LLT) minus Existing Condition

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	-907	10,584	6,673	3,428	4,923	0	0	0	0	0
20%	0	0	3,344	7,349	5,781	4,780	3,812	0	0	0	0	0
30%	0	0	1,563	6,301	5,121	7,041	2,865	0	0	0	0	0
40%	0	0	395	3,917	6,110	5,286	1,462	0	0	0	0	0
50%	0	0	92	2,444	4,571	3,836	754	0	0	0	0	0
60%	0	0	2	1,451	3,164	2,723	469	0	0	0	0	0
70%	0	0	0	119	1,489	1,335	132	0	0	0	0	0
80%	0	0	0	9	289	360	22	0	0	0	0	0
90%	0	0	0	0	3	23	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	-4	-141	1,031	4,322	4,310	3,549	1,508	-74	-26	0	0	0
Water Year Types[b]												
Wet (32%)	-12	-445	2,720	9,611	8,339	5,637	2,302	-234	-82	0	0	0
Above Normal (15%)	0	0	400	4,237	4,407	4,564	2,489	0	0	0	0	0
Below Normal (17%)	0	0	271	2,427	2,804	2,784	1,526	0	0	0	0	0
Dry (22%)	0	0	266	783	2,091	2,496	658	0	0	0	0	0
Critical (15%)	0	0	34	466	571	481	62	0	0	0	0	0

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-18-13. Fremont Weir, Monthly Spills

Existing Condition

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	8,900	25,431	35,828	18,376	1,191	0	0	0	0	0
20%	0	0	163	6,615	10,476	4,328	0	0	0	0	0	0
30%	0	0	0	945	4,562	274	0	0	0	0	0	0
40%	0	0	0	0	1,014	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	17	263	2,388	7,170	9,269	5,946	1,014	110	26	0	0	0
Water Year Types[b]												
Wet (32%)	53	828	6,724	20,528	23,869	15,897	3,122	345	82	0	0	0
Above Normal (15%)	0	0	823	4,359	9,430	6,058	124	0	0	0	0	0
Below Normal (17%)	0	0	793	0	1,179	1	36	0	0	0	0	0
Dry (22%)	0	0	0	103	542	86	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

Alternative 9 (LLT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	8,062	26,689	43,348	19,508	5,748	100	100	0	0	100
20%	100	100	2,823	11,336	15,499	8,030	4,045	100	100	0	0	100
30%	100	100	1,310	5,462	8,263	5,039	861	100	100	0	0	100
40%	100	100	497	2,778	5,199	3,658	308	100	100	0	0	100
50%	100	100	176	1,473	3,247	1,732	121	100	100	0	0	100
60%	100	100	100	737	1,496	946	100	100	100	0	0	100
70%	100	100	100	141	570	345	100	100	100	0	0	100
80%	100	100	100	100	124	183	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	113	265	2,968	9,969	12,595	8,481	2,187	113	100	0	0	100
Water Year Types[b]												
Wet (32%)	140	621	7,748	26,900	31,371	20,664	5,680	142	100	0	0	100
Above Normal (15%)	100	100	1,455	6,556	11,996	9,538	1,613	100	100	0	0	100
Below Normal (17%)	100	100	1,198	1,658	2,846	1,231	546	100	100	0	0	100
Dry (22%)	100	100	337	640	1,550	1,206	185	100	100	0	0	100
Critical (15%)	100	100	137	390	453	403	108	100	100	0	0	100

Alternative 9 (LLT) minus Existing Condition

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	-838	1,258	7,520	1,132	4,557	100	100	0	0	100
20%	100	100	2,660	4,720	5,023	3,702	4,045	100	100	0	0	100
30%	100	100	1,310	4,517	3,700	4,764	861	100	100	0	0	100
40%	100	100	497	2,778	4,184	3,658	308	100	100	0	0	100
50%	100	100	176	1,473	3,247	1,732	121	100	100	0	0	100
60%	100	100	100	737	1,496	946	100	100	100	0	0	100
70%	100	100	100	141	570	345	100	100	100	0	0	100
80%	100	100	100	100	124	183	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	96	3	580	2,800	3,326	2,535	1,172	4	74	0	0	100
Water Year Types[b]												
Wet (32%)	87	-207	1,024	6,371	7,502	4,767	2,558	-204	18	0	0	100
Above Normal (15%)	100	100	631	2,197	2,566	3,479	1,489	100	100	0	0	100
Below Normal (17%)	100	100	405	1,658	1,667	1,230	509	100	100	0	0	100
Dry (22%)	100	100	337	537	1,008	1,120	185	100	100	0	0	100
Critical (15%)	100	100	137	390	453	403	108	100	100	0	0	100

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-18-14. Fremont Weir, Monthly Spills

No Action Alternative (LLT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	5,079	23,714	42,108	17,813	1,744	0	0	0	0	0
20%	0	0	0	9,090	14,222	5,684	0	0	0	0	0	0
30%	0	0	0	849	3,953	621	0	0	0	0	0	0
40%	0	0	0	0	821	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	12	159	2,151	8,533	11,171	7,037	1,142	14	0	0	0	0
Water Year Types[b]												
Wet (32%)	39	502	5,906	24,758	29,796	18,802	3,513	43	0	0	0	0
Above Normal (15%)	0	0	926	4,602	10,011	7,175	158	0	0	0	0	0
Below Normal (17%)	0	0	839	0	691	5	28	0	0	0	0	0
Dry (22%)	0	0	0	45	641	111	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

Alternative 1A,1B,1C (LLT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	10,029	31,930	45,540	24,952	5,753	100	100	0	0	100
20%	100	100	2,878	11,974	15,547	8,001	4,022	100	100	0	0	100
30%	100	100	1,679	5,048	9,356	5,728	1,136	100	100	0	0	100
40%	100	100	649	2,896	5,237	3,657	375	100	100	0	0	100
50%	100	100	251	1,638	3,232	2,168	177	100	100	0	0	100
60%	100	100	113	1,079	1,961	1,359	119	100	100	0	0	100
70%	100	100	100	332	596	584	100	100	100	0	0	100
80%	100	100	100	108	143	150	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	113	302	3,409	10,373	13,383	8,736	2,195	113	100	0	0	100
Water Year Types[b]												
Wet (32%)	140	736	9,094	28,086	32,583	21,084	5,627	142	100	0	0	100
Above Normal (15%)	100	100	1,513	6,353	14,110	10,114	1,651	100	100	0	0	100
Below Normal (17%)	100	100	1,169	1,830	3,414	1,485	586	100	100	0	0	100
Dry (22%)	100	100	386	768	1,556	1,178	243	100	100	0	0	100
Critical (15%)	100	100	140	389	426	401	106	100	100	0	0	100

Alternative 1A,1B,1C (LLT) minus No Action Alternative (LLT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	4,951	8,216	3,432	7,139	4,009	100	100	0	0	100
20%	100	100	2,878	2,884	1,324	2,317	4,022	100	100	0	0	100
30%	100	100	1,679	4,200	5,403	5,107	1,136	100	100	0	0	100
40%	100	100	649	2,896	4,416	3,657	375	100	100	0	0	100
50%	100	100	251	1,638	3,232	2,168	177	100	100	0	0	100
60%	100	100	113	1,079	1,961	1,359	119	100	100	0	0	100
70%	100	100	100	332	596	584	100	100	100	0	0	100
80%	100	100	100	108	143	150	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	100	142	1,258	1,840	2,212	1,699	1,053	100	100	0	0	100
Water Year Types[b]												
Wet (32%)	101	234	3,188	3,328	2,787	2,282	2,114	100	100	0	0	100
Above Normal (15%)	100	100	586	1,752	4,099	2,939	1,493	100	100	0	0	100
Below Normal (17%)	100	100	330	1,830	2,723	1,480	558	100	100	0	0	100
Dry (22%)	100	100	386	723	915	1,067	243	100	100	0	0	100
Critical (15%)	100	100	140	389	426	401	106	100	100	0	0	100

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-18-15. Fremont Weir, Monthly Spills

No Action Alternative (LLT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	5,079	23,714	42,108	17,813	1,744	0	0	0	0	0
20%	0	0	0	9,090	14,222	5,684	0	0	0	0	0	0
30%	0	0	0	849	3,953	621	0	0	0	0	0	0
40%	0	0	0	0	821	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	12	159	2,151	8,533	11,171	7,037	1,142	14	0	0	0	0
Water Year Types[b]												
Wet (32%)	39	502	5,906	24,758	29,796	18,802	3,513	43	0	0	0	0
Above Normal (15%)	0	0	926	4,602	10,011	7,175	158	0	0	0	0	0
Below Normal (17%)	0	0	839	0	691	5	28	0	0	0	0	0
Dry (22%)	0	0	0	45	641	111	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

Alternative 2A,2B,2C (LLT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	7,400	25,432	42,356	21,378	5,749	100	100	0	0	100
20%	100	100	2,816	10,293	18,635	8,032	4,015	100	100	0	0	100
30%	100	100	1,397	5,412	7,436	5,732	1,134	100	100	0	0	100
40%	100	100	525	2,800	5,583	3,757	349	100	100	0	0	100
50%	100	100	216	1,448	3,244	1,736	113	100	100	0	0	100
60%	100	100	103	805	1,774	1,061	101	100	100	0	0	100
70%	100	100	100	178	640	548	100	100	100	0	0	100
80%	100	100	100	102	131	150	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	113	256	3,108	9,594	12,987	8,586	2,204	113	100	0	0	100
Water Year Types[b]												
Wet (32%)	142	591	8,123	25,924	32,140	20,785	5,693	142	100	0	0	100
Above Normal (15%)	100	100	1,520	6,113	12,998	9,967	1,627	100	100	0	0	100
Below Normal (17%)	100	100	1,260	1,630	2,849	1,212	569	100	100	0	0	100
Dry (22%)	100	100	338	655	1,557	1,233	221	100	100	0	0	100
Critical (15%)	100	100	139	390	452	404	106	100	100	0	0	100

Alternative 2A,2B,2C (LLT) minus No Action Alternative (LLT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	2,321	1,718	247	3,565	4,005	100	100	0	0	100
20%	100	100	2,816	1,202	4,413	2,348	4,015	100	100	0	0	100
30%	100	100	1,397	4,564	3,483	5,111	1,134	100	100	0	0	100
40%	100	100	525	2,800	4,762	3,757	349	100	100	0	0	100
50%	100	100	216	1,448	3,244	1,736	113	100	100	0	0	100
60%	100	100	103	805	1,774	1,061	101	100	100	0	0	100
70%	100	100	100	178	640	548	100	100	100	0	0	100
80%	100	100	100	102	131	150	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	101	97	956	1,061	1,816	1,549	1,063	100	100	0	0	100
Water Year Types[b]												
Wet (32%)	103	89	2,217	1,167	2,345	1,983	2,180	99	100	0	0	100
Above Normal (15%)	100	100	594	1,511	2,987	2,792	1,470	100	100	0	0	100
Below Normal (17%)	100	100	421	1,630	2,158	1,207	541	100	100	0	0	100
Dry (22%)	100	100	338	611	916	1,122	221	100	100	0	0	100
Critical (15%)	100	100	139	390	452	404	106	100	100	0	0	100

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-18-16. Fremont Weir, Monthly Spills

No Action Alternative (LLT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	5,079	23,714	42,108	17,813	1,744	0	0	0	0	0
20%	0	0	0	9,090	14,222	5,684	0	0	0	0	0	0
30%	0	0	0	849	3,953	621	0	0	0	0	0	0
40%	0	0	0	0	821	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	12	159	2,151	8,533	11,171	7,037	1,142	14	0	0	0	0
Water Year Types[b]												
Wet (32%)	39	502	5,906	24,758	29,796	18,802	3,513	43	0	0	0	0
Above Normal (15%)	0	0	926	4,602	10,011	7,175	158	0	0	0	0	0
Below Normal (17%)	0	0	839	0	691	5	28	0	0	0	0	0
Dry (22%)	0	0	0	45	641	111	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

Alternative 3 (LLT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	10,503	31,514	44,463	24,966	5,754	100	100	0	0	100
20%	100	100	2,874	12,482	15,542	8,071	4,006	100	100	0	0	100
30%	100	100	1,621	5,109	8,675	5,662	1,134	100	100	0	0	100
40%	100	100	578	3,087	5,122	3,657	354	100	100	0	0	100
50%	100	100	288	1,631	3,241	2,043	161	100	100	0	0	100
60%	100	100	139	1,090	1,962	1,323	111	100	100	0	0	100
70%	100	100	100	264	752	583	100	100	100	0	0	100
80%	100	100	100	101	140	176	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	113	303	3,428	10,404	13,435	8,731	2,195	114	100	0	0	100
Water Year Types[b]												
Wet (32%)	141	739	9,111	28,120	32,831	21,135	5,660	146	100	0	0	100
Above Normal (15%)	100	100	1,577	6,457	13,792	9,909	1,644	100	100	0	0	100
Below Normal (17%)	100	100	1,153	1,816	3,362	1,500	570	100	100	0	0	100
Dry (22%)	100	100	415	801	1,689	1,200	215	100	100	0	0	100
Critical (15%)	100	100	141	389	426	407	106	100	100	0	0	100

Alternative 3 (LLT) minus No Action Alternative (LLT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	5,425	7,800	2,355	7,153	4,009	100	100	0	0	100
20%	100	100	2,874	3,392	1,319	2,386	4,006	100	100	0	0	100
30%	100	100	1,621	4,260	4,723	5,041	1,134	100	100	0	0	100
40%	100	100	578	3,087	4,301	3,657	354	100	100	0	0	100
50%	100	100	288	1,631	3,241	2,043	161	100	100	0	0	100
60%	100	100	139	1,090	1,962	1,323	111	100	100	0	0	100
70%	100	100	100	264	752	583	100	100	100	0	0	100
80%	100	100	100	101	140	176	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	101	143	1,277	1,871	2,264	1,694	1,054	101	100	0	0	100
Water Year Types[b]												
Wet (32%)	102	237	3,205	3,363	3,035	2,332	2,147	103	100	0	0	100
Above Normal (15%)	100	100	651	1,855	3,781	2,735	1,486	100	100	0	0	100
Below Normal (17%)	100	100	314	1,816	2,672	1,495	542	100	100	0	0	100
Dry (22%)	100	100	415	756	1,048	1,089	215	100	100	0	0	100
Critical (15%)	100	100	141	389	426	407	106	100	100	0	0	100

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-18-17. Fremont Weir, Monthly Spills

No Action Alternative (LLT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	5,079	23,714	42,108	17,813	1,744	0	0	0	0	0
20%	0	0	0	9,090	14,222	5,684	0	0	0	0	0	0
30%	0	0	0	849	3,953	621	0	0	0	0	0	0
40%	0	0	0	0	821	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	12	159	2,151	8,533	11,171	7,037	1,142	14	0	0	0	0
Water Year Types[b]												
Wet (32%)	39	502	5,906	24,758	29,796	18,802	3,513	43	0	0	0	0
Above Normal (15%)	0	0	926	4,602	10,011	7,175	158	0	0	0	0	0
Below Normal (17%)	0	0	839	0	691	5	28	0	0	0	0	0
Dry (22%)	0	0	0	45	641	111	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

Alternative 4 H1 (LLT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	9,689	32,168	45,187	24,910	5,751	100	100	0	0	100
20%	100	100	3,092	13,396	15,544	8,025	4,014	100	100	0	0	100
30%	100	100	1,430	5,512	8,531	5,730	1,128	100	100	0	0	100
40%	100	100	526	3,012	5,583	3,758	352	100	100	0	0	100
50%	100	100	247	1,668	3,246	1,978	114	100	100	0	0	100
60%	100	100	128	1,042	2,002	1,304	101	100	100	0	0	100
70%	100	100	100	267	718	564	100	100	100	0	0	100
80%	100	100	100	114	143	150	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	113	333	3,406	10,527	13,365	8,722	2,215	113	100	0	0	100
Water Year Types[b]												
Wet (32%)	141	836	9,004	28,253	32,573	21,004	5,723	142	100	0	0	100
Above Normal (15%)	100	100	1,550	7,139	13,981	10,209	1,646	100	100	0	0	100
Below Normal (17%)	100	100	1,313	1,792	3,443	1,461	568	100	100	0	0	100
Dry (22%)	100	100	358	691	1,550	1,185	215	100	100	0	0	100
Critical (15%)	100	100	144	455	425	402	106	100	100	0	0	100

Alternative 4 H1 (LLT) minus No Action Alternative (LLT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	4,611	8,454	3,079	7,097	4,006	100	100	0	0	100
20%	100	100	3,092	4,306	1,321	2,341	4,014	100	100	0	0	100
30%	100	100	1,430	4,663	4,578	5,108	1,128	100	100	0	0	100
40%	100	100	526	3,012	4,762	3,758	352	100	100	0	0	100
50%	100	100	247	1,668	3,246	1,978	114	100	100	0	0	100
60%	100	100	128	1,042	2,002	1,304	101	100	100	0	0	100
70%	100	100	100	267	718	564	100	100	100	0	0	100
80%	100	100	100	114	143	150	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	101	174	1,254	1,994	2,193	1,685	1,073	100	100	0	0	100
Water Year Types[b]												
Wet (32%)	102	334	3,099	3,496	2,777	2,202	2,210	99	100	0	0	100
Above Normal (15%)	100	100	623	2,537	3,970	3,035	1,488	100	100	0	0	100
Below Normal (17%)	100	100	474	1,792	2,753	1,456	540	100	100	0	0	100
Dry (22%)	100	100	358	646	909	1,074	215	100	100	0	0	100
Critical (15%)	100	100	144	455	425	402	106	100	100	0	0	100

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-18-18. Fremont Weir, Monthly Spills

No Action Alternative (LLT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	5,079	23,714	42,108	17,813	1,744	0	0	0	0	0
20%	0	0	0	9,090	14,222	5,684	0	0	0	0	0	0
30%	0	0	0	849	3,953	621	0	0	0	0	0	0
40%	0	0	0	0	821	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	12	159	2,151	8,533	11,171	7,037	1,142	14	0	0	0	0
Water Year Types[b]												
Wet (32%)	39	502	5,906	24,758	29,796	18,802	3,513	43	0	0	0	0
Above Normal (15%)	0	0	926	4,602	10,011	7,175	158	0	0	0	0	0
Below Normal (17%)	0	0	839	0	691	5	28	0	0	0	0	0
Dry (22%)	0	0	0	45	641	111	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

Alternative 4 H2 (LLT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	11,926	35,516	45,448	24,886	5,790	100	100	0	0	100
20%	100	100	3,229	11,284	16,123	8,032	4,214	100	100	0	0	100
30%	100	100	1,599	5,554	8,977	5,418	3,270	100	100	0	0	100
40%	100	100	517	3,214	5,144	3,799	2,117	100	100	0	0	100
50%	100	100	225	1,728	3,251	1,981	839	100	100	0	0	100
60%	100	100	100	909	1,770	1,399	167	100	100	0	0	100
70%	100	100	100	268	569	539	100	100	100	0	0	100
80%	100	100	100	122	134	148	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	113	314	3,623	10,451	13,416	8,758	2,733	113	100	0	0	100
Water Year Types[b]												
Wet (32%)	141	776	9,864	28,095	32,506	21,030	6,365	142	100	0	0	100
Above Normal (15%)	100	100	1,244	6,870	14,404	10,174	2,566	100	100	0	0	100
Below Normal (17%)	100	100	1,249	1,890	3,506	1,583	1,396	100	100	0	0	100
Dry (22%)	100	100	363	712	1,549	1,226	391	100	100	0	0	100
Critical (15%)	100	100	141	398	427	418	106	100	100	0	0	100

Alternative 4 H2 (LLT) minus No Action Alternative (LLT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	6,847	11,802	3,340	7,073	4,046	100	100	0	0	100
20%	100	100	3,229	2,194	1,901	2,348	4,214	100	100	0	0	100
30%	100	100	1,599	4,706	5,024	4,797	3,270	100	100	0	0	100
40%	100	100	517	3,214	4,323	3,799	2,117	100	100	0	0	100
50%	100	100	225	1,728	3,251	1,981	839	100	100	0	0	100
60%	100	100	100	909	1,770	1,399	167	100	100	0	0	100
70%	100	100	100	268	569	539	100	100	100	0	0	100
80%	100	100	100	122	134	148	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	101	155	1,472	1,917	2,245	1,721	1,592	100	100	0	0	100
Water Year Types[b]												
Wet (32%)	102	275	3,958	3,337	2,710	2,228	2,852	100	100	0	0	100
Above Normal (15%)	100	100	317	2,268	4,393	3,000	2,408	100	100	0	0	100
Below Normal (17%)	100	100	411	1,890	2,816	1,578	1,368	100	100	0	0	100
Dry (22%)	100	100	363	667	907	1,115	391	100	100	0	0	100
Critical (15%)	100	100	141	398	427	418	106	100	100	0	0	100

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-18-19. Fremont Weir, Monthly Spills

No Action Alternative (LLT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	5,079	23,714	42,108	17,813	1,744	0	0	0	0	0
20%	0	0	0	9,090	14,222	5,684	0	0	0	0	0	0
30%	0	0	0	849	3,953	621	0	0	0	0	0	0
40%	0	0	0	0	821	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	12	159	2,151	8,533	11,171	7,037	1,142	14	0	0	0	0
Water Year Types[b]												
Wet (32%)	39	502	5,906	24,758	29,796	18,802	3,513	43	0	0	0	0
Above Normal (15%)	0	0	926	4,602	10,011	7,175	158	0	0	0	0	0
Below Normal (17%)	0	0	839	0	691	5	28	0	0	0	0	0
Dry (22%)	0	0	0	45	641	111	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

Alternative 4 H3 (LLT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	6,879	25,466	43,746	21,552	5,748	100	100	0	0	100
20%	100	100	2,770	11,310	17,192	8,031	4,013	100	100	0	0	100
30%	100	100	1,461	5,420	7,472	5,727	1,095	100	100	0	0	100
40%	100	100	518	2,795	5,582	3,757	349	100	100	0	0	100
50%	100	100	182	1,462	3,247	1,735	113	100	100	0	0	100
60%	100	100	107	911	1,775	964	101	100	100	0	0	100
70%	100	100	100	199	609	454	100	100	100	0	0	100
80%	100	100	100	103	131	177	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	113	253	3,075	9,568	13,055	8,532	2,206	113	100	0	0	100
Water Year Types[b]												
Wet (32%)	141	581	8,075	25,795	32,418	20,724	5,692	141	100	0	0	100
Above Normal (15%)	100	100	1,421	6,176	12,875	9,851	1,636	100	100	0	0	100
Below Normal (17%)	100	100	1,241	1,630	2,838	1,171	580	100	100	0	0	100
Dry (22%)	100	100	337	637	1,552	1,188	216	100	100	0	0	100
Critical (15%)	100	100	144	457	452	402	106	100	100	0	0	100

Alternative 4 H3 (LLT) minus No Action Alternative (LLT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	1,800	1,752	1,638	3,740	4,004	100	100	0	0	100
20%	100	100	2,770	2,220	2,969	2,347	4,013	100	100	0	0	100
30%	100	100	1,461	4,571	3,520	5,106	1,095	100	100	0	0	100
40%	100	100	518	2,795	4,761	3,757	349	100	100	0	0	100
50%	100	100	182	1,462	3,247	1,735	113	100	100	0	0	100
60%	100	100	107	911	1,775	964	101	100	100	0	0	100
70%	100	100	100	199	609	454	100	100	100	0	0	100
80%	100	100	100	103	131	177	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	101	94	924	1,034	1,883	1,495	1,064	100	100	0	0	100
Water Year Types[b]												
Wet (32%)	102	80	2,169	1,037	2,622	1,922	2,179	99	100	0	0	100
Above Normal (15%)	100	100	495	1,575	2,864	2,677	1,478	100	100	0	0	100
Below Normal (17%)	100	100	402	1,630	2,147	1,167	552	100	100	0	0	100
Dry (22%)	100	100	337	592	911	1,077	216	100	100	0	0	100
Critical (15%)	100	100	144	457	452	402	106	100	100	0	0	100

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-18-20. Fremont Weir, Monthly Spills

No Action Alternative (LLT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	5,079	23,714	42,108	17,813	1,744	0	0	0	0	0
20%	0	0	0	9,090	14,222	5,684	0	0	0	0	0	0
30%	0	0	0	849	3,953	621	0	0	0	0	0	0
40%	0	0	0	0	821	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	12	159	2,151	8,533	11,171	7,037	1,142	14	0	0	0	0
Water Year Types[b]												
Wet (32%)	39	502	5,906	24,758	29,796	18,802	3,513	43	0	0	0	0
Above Normal (15%)	0	0	926	4,602	10,011	7,175	158	0	0	0	0	0
Below Normal (17%)	0	0	839	0	691	5	28	0	0	0	0	0
Dry (22%)	0	0	0	45	641	111	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

Alternative 4 H4 (LLT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	8,413	30,882	45,350	25,003	5,789	100	100	0	0	100
20%	100	100	2,842	11,400	15,523	8,032	4,172	100	100	0	0	100
30%	100	100	1,455	5,394	7,289	5,578	3,270	100	100	0	0	100
40%	100	100	513	2,865	5,330	3,657	2,122	100	100	0	0	100
50%	100	100	164	1,451	3,250	1,782	825	100	100	0	0	100
60%	100	100	100	747	1,711	917	166	100	100	0	0	100
70%	100	100	100	139	555	428	100	100	100	0	0	100
80%	100	100	100	101	126	149	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	113	255	3,187	10,048	12,937	8,640	2,734	114	100	0	0	100
Water Year Types[b]												
Wet (32%)	142	590	8,524	27,172	31,738	20,999	6,333	143	100	0	0	100
Above Normal (15%)	100	100	1,259	6,494	13,332	9,832	2,654	100	100	0	0	100
Below Normal (17%)	100	100	1,194	1,679	3,016	1,275	1,383	100	100	0	0	100
Dry (22%)	100	100	344	631	1,553	1,211	389	100	100	0	0	100
Critical (15%)	100	100	139	389	456	404	106	100	100	0	0	100

Alternative 4 H4 (LLT) minus No Action Alternative (LLT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	3,334	7,168	3,242	7,190	4,045	100	100	0	0	100
20%	100	100	2,842	2,310	1,301	2,347	4,172	100	100	0	0	100
30%	100	100	1,455	4,545	3,336	4,957	3,270	100	100	0	0	100
40%	100	100	513	2,865	4,509	3,657	2,122	100	100	0	0	100
50%	100	100	164	1,451	3,250	1,782	825	100	100	0	0	100
60%	100	100	100	747	1,711	917	166	100	100	0	0	100
70%	100	100	100	139	555	428	100	100	100	0	0	100
80%	100	100	100	101	126	149	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	101	96	1,035	1,515	1,766	1,603	1,592	100	100	0	0	100
Water Year Types[b]												
Wet (32%)	103	88	2,618	2,414	1,942	2,197	2,821	100	100	0	0	100
Above Normal (15%)	100	100	332	1,892	3,321	2,657	2,496	100	100	0	0	100
Below Normal (17%)	100	100	356	1,679	2,325	1,270	1,355	100	100	0	0	100
Dry (22%)	100	100	344	586	912	1,099	389	100	100	0	0	100
Critical (15%)	100	100	139	389	456	404	106	100	100	0	0	100

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-18-21. Fremont Weir, Monthly Spills

No Action Alternative (LLT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	5,079	23,714	42,108	17,813	1,744	0	0	0	0	0
20%	0	0	0	9,090	14,222	5,684	0	0	0	0	0	0
30%	0	0	0	849	3,953	621	0	0	0	0	0	0
40%	0	0	0	0	821	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	12	159	2,151	8,533	11,171	7,037	1,142	14	0	0	0	0
Water Year Types[b]												
Wet (32%)	39	502	5,906	24,758	29,796	18,802	3,513	43	0	0	0	0
Above Normal (15%)	0	0	926	4,602	10,011	7,175	158	0	0	0	0	0
Below Normal (17%)	0	0	839	0	691	5	28	0	0	0	0	0
Dry (22%)	0	0	0	45	641	111	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

Alternative 5 (LLT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	7,350	25,360	42,440	24,155	5,747	100	100	0	0	100
20%	100	100	2,901	10,481	18,678	8,061	4,024	100	100	0	0	100
30%	100	100	1,387	5,525	7,803	5,727	1,052	100	100	0	0	100
40%	100	100	492	2,844	4,731	3,757	305	100	100	0	0	100
50%	100	100	212	1,477	3,165	1,740	130	100	100	0	0	100
60%	100	100	104	786	1,779	982	100	100	100	0	0	100
70%	100	100	100	260	593	474	100	100	100	0	0	100
80%	100	100	100	101	126	150	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	113	249	3,054	9,712	12,934	8,648	2,198	113	100	0	0	100
Water Year Types[b]												
Wet (32%)	142	571	8,272	26,319	32,393	20,896	5,694	141	100	0	0	100
Above Normal (15%)	100	100	1,241	6,053	12,553	10,232	1,631	100	100	0	0	100
Below Normal (17%)	100	100	900	1,644	2,457	1,207	555	100	100	0	0	100
Dry (22%)	100	100	343	652	1,549	1,185	194	100	100	0	0	100
Critical (15%)	100	100	139	395	453	403	110	100	100	0	0	100

Alternative 5 (LLT) minus No Action Alternative (LLT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	2,272	1,646	332	6,342	4,003	100	100	0	0	100
20%	100	100	2,901	1,391	4,455	2,377	4,024	100	100	0	0	100
30%	100	100	1,387	4,677	3,851	5,106	1,052	100	100	0	0	100
40%	100	100	492	2,844	3,910	3,757	305	100	100	0	0	100
50%	100	100	212	1,477	3,165	1,740	130	100	100	0	0	100
60%	100	100	104	786	1,779	982	100	100	100	0	0	100
70%	100	100	100	260	593	474	100	100	100	0	0	100
80%	100	100	100	101	126	150	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	101	90	903	1,179	1,763	1,611	1,056	100	100	0	0	100
Water Year Types[b]												
Wet (32%)	103	69	2,366	1,561	2,598	2,093	2,181	99	100	0	0	100
Above Normal (15%)	100	100	315	1,451	2,542	3,057	1,473	100	100	0	0	100
Below Normal (17%)	100	100	62	1,644	1,766	1,202	526	100	100	0	0	100
Dry (22%)	100	100	343	607	908	1,073	194	100	100	0	0	100
Critical (15%)	100	100	139	395	453	403	110	100	100	0	0	100

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-18-22. Fremont Weir, Monthly Spills

No Action Alternative (LLT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	5,079	23,714	42,108	17,813	1,744	0	0	0	0	0
20%	0	0	0	9,090	14,222	5,684	0	0	0	0	0	0
30%	0	0	0	849	3,953	621	0	0	0	0	0	0
40%	0	0	0	0	821	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	12	159	2,151	8,533	11,171	7,037	1,142	14	0	0	0	0
Water Year Types[b]												
Wet (32%)	39	502	5,906	24,758	29,796	18,802	3,513	43	0	0	0	0
Above Normal (15%)	0	0	926	4,602	10,011	7,175	158	0	0	0	0	0
Below Normal (17%)	0	0	839	0	691	5	28	0	0	0	0	0
Dry (22%)	0	0	0	45	641	111	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

Alternative 6A,6B,6C (LLT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	9,377	27,615	45,151	22,878	5,755	100	100	0	0	100
20%	100	100	3,229	12,119	15,529	8,213	4,038	100	100	0	0	100
30%	100	100	1,330	5,548	8,683	5,737	953	100	100	0	0	100
40%	100	100	511	2,776	5,456	3,736	313	100	100	0	0	100
50%	100	100	186	1,461	3,315	1,781	110	100	100	0	0	100
60%	100	100	100	833	1,906	1,033	100	100	100	0	0	100
70%	100	100	100	145	487	519	100	100	100	0	0	100
80%	100	100	100	100	132	177	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	119	262	3,470	10,711	13,248	8,755	2,201	115	100	0	0	100
Water Year Types[b]												
Wet (32%)	159	611	9,440	28,783	32,380	21,060	5,714	146	100	0	0	100
Above Normal (15%)	100	100	1,520	7,422	13,722	10,486	1,632	100	100	0	0	100
Below Normal (17%)	100	100	931	1,648	3,266	1,238	547	100	100	0	0	100
Dry (22%)	100	100	341	730	1,574	1,241	189	100	100	0	0	100
Critical (15%)	100	100	137	391	479	403	106	100	100	0	0	100

Alternative 6A,6B,6C (LLT) minus No Action Alternative (LLT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	4,299	3,901	3,043	5,065	4,011	100	100	0	0	100
20%	100	100	3,229	3,029	1,307	2,529	4,038	100	100	0	0	100
30%	100	100	1,330	4,699	4,730	5,116	953	100	100	0	0	100
40%	100	100	511	2,776	4,635	3,736	313	100	100	0	0	100
50%	100	100	186	1,461	3,315	1,781	110	100	100	0	0	100
60%	100	100	100	833	1,906	1,033	100	100	100	0	0	100
70%	100	100	100	145	487	519	100	100	100	0	0	100
80%	100	100	100	100	132	177	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	106	103	1,318	2,178	2,077	1,718	1,059	101	100	0	0	100
Water Year Types[b]												
Wet (32%)	120	109	3,535	4,026	2,584	2,258	2,201	104	100	0	0	100
Above Normal (15%)	100	100	593	2,821	3,711	3,312	1,475	100	100	0	0	100
Below Normal (17%)	100	100	92	1,648	2,575	1,233	519	100	100	0	0	100
Dry (22%)	100	100	341	685	933	1,129	189	100	100	0	0	100
Critical (15%)	100	100	137	391	479	403	106	100	100	0	0	100

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-18-23. Fremont Weir, Monthly Spills

No Action Alternative (LLT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	5,079	23,714	42,108	17,813	1,744	0	0	0	0	0
20%	0	0	0	9,090	14,222	5,684	0	0	0	0	0	0
30%	0	0	0	849	3,953	621	0	0	0	0	0	0
40%	0	0	0	0	821	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	12	159	2,151	8,533	11,171	7,037	1,142	14	0	0	0	0
Water Year Types[b]												
Wet (32%)	39	502	5,906	24,758	29,796	18,802	3,513	43	0	0	0	0
Above Normal (15%)	0	0	926	4,602	10,011	7,175	158	0	0	0	0	0
Below Normal (17%)	0	0	839	0	691	5	28	0	0	0	0	0
Dry (22%)	0	0	0	45	641	111	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

Alternative 7 (LLT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	10,401	25,900	45,813	20,330	4,000	0	0	0	0	0
20%	0	0	3,746	12,188	15,942	8,517	2,498	0	0	0	0	0
30%	0	0	1,462	6,627	8,821	7,000	797	0	0	0	0	0
40%	0	0	439	3,299	6,478	4,653	111	0	0	0	0	0
50%	0	0	87	1,717	4,103	2,075	9	0	0	0	0	0
60%	0	0	2	852	1,721	819	0	0	0	0	0	0
70%	0	0	0	77	765	498	0	0	0	0	0	0
80%	0	0	0	6	47	100	0	0	0	0	0	0
90%	0	0	0	0	1	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	13	169	3,453	10,543	13,575	8,901	1,722	15	0	0	0	0
Water Year Types[b]												
Wet (32%)	42	532	9,276	28,039	33,084	21,322	4,613	46	0	0	0	0
Above Normal (15%)	0	0	1,970	7,711	13,923	10,650	1,275	0	0	0	0	0
Below Normal (17%)	0	0	904	1,917	3,588	1,447	290	0	0	0	0	0
Dry (22%)	0	0	288	662	1,646	1,285	101	0	0	0	0	0
Critical (15%)	0	0	41	349	501	357	7	0	0	0	0	0

Alternative 7 (LLT) minus No Action Alternative (LLT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	5,322	2,186	3,705	2,518	2,256	0	0	0	0	0
20%	0	0	3,746	3,098	1,720	2,833	2,498	0	0	0	0	0
30%	0	0	1,462	5,779	4,868	6,379	797	0	0	0	0	0
40%	0	0	439	3,299	5,657	4,653	111	0	0	0	0	0
50%	0	0	87	1,717	4,103	2,075	9	0	0	0	0	0
60%	0	0	2	852	1,721	819	0	0	0	0	0	0
70%	0	0	0	77	765	498	0	0	0	0	0	0
80%	0	0	0	6	47	100	0	0	0	0	0	0
90%	0	0	0	0	1	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	1	10	1,302	2,009	2,404	1,864	580	1	0	0	0	0
Water Year Types[b]												
Wet (32%)	3	30	3,370	3,281	3,288	2,520	1,100	4	0	0	0	0
Above Normal (15%)	0	0	1,044	3,109	3,912	3,475	1,118	0	0	0	0	0
Below Normal (17%)	0	0	65	1,917	2,898	1,442	262	0	0	0	0	0
Dry (22%)	0	0	288	617	1,005	1,174	101	0	0	0	0	0
Critical (15%)	0	0	41	349	501	357	7	0	0	0	0	0

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-18-24. Fremont Weir, Monthly Spills

No Action Alternative (LLT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	5,079	23,714	42,108	17,813	1,744	0	0	0	0	0
20%	0	0	0	9,090	14,222	5,684	0	0	0	0	0	0
30%	0	0	0	849	3,953	621	0	0	0	0	0	0
40%	0	0	0	0	821	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	12	159	2,151	8,533	11,171	7,037	1,142	14	0	0	0	0
Water Year Types[b]												
Wet (32%)	39	502	5,906	24,758	29,796	18,802	3,513	43	0	0	0	0
Above Normal (15%)	0	0	926	4,602	10,011	7,175	158	0	0	0	0	0
Below Normal (17%)	0	0	839	0	691	5	28	0	0	0	0	0
Dry (22%)	0	0	0	45	641	111	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

Alternative 8 (LLT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	7,994	36,016	42,501	21,804	6,114	0	0	0	0	0
20%	0	0	3,507	13,965	16,257	9,107	3,812	0	0	0	0	0
30%	0	0	1,563	7,246	9,683	7,315	2,865	0	0	0	0	0
40%	0	0	395	3,917	7,125	5,286	1,462	0	0	0	0	0
50%	0	0	92	2,444	4,571	3,836	754	0	0	0	0	0
60%	0	0	2	1,451	3,164	2,723	469	0	0	0	0	0
70%	0	0	0	119	1,489	1,335	132	0	0	0	0	0
80%	0	0	0	9	289	360	22	0	0	0	0	0
90%	0	0	0	0	3	23	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	13	122	3,418	11,491	13,579	9,495	2,522	35	0	0	0	0
Water Year Types[b]												
Wet (32%)	40	384	9,444	30,139	32,208	21,535	5,424	111	0	0	0	0
Above Normal (15%)	0	0	1,223	8,597	13,837	10,622	2,612	0	0	0	0	0
Below Normal (17%)	0	0	1,064	2,427	3,983	2,785	1,563	0	0	0	0	0
Dry (22%)	0	0	266	886	2,633	2,581	658	0	0	0	0	0
Critical (15%)	0	0	34	466	571	481	62	0	0	0	0	0

Alternative 8 (LLT) minus No Action Alternative (LLT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	2,915	12,302	393	3,992	4,369	0	0	0	0	0
20%	0	0	3,507	4,874	2,035	3,423	3,812	0	0	0	0	0
30%	0	0	1,563	6,398	5,730	6,694	2,865	0	0	0	0	0
40%	0	0	395	3,917	6,304	5,286	1,462	0	0	0	0	0
50%	0	0	92	2,444	4,571	3,836	754	0	0	0	0	0
60%	0	0	2	1,451	3,164	2,723	469	0	0	0	0	0
70%	0	0	0	119	1,489	1,335	132	0	0	0	0	0
80%	0	0	0	9	289	360	22	0	0	0	0	0
90%	0	0	0	0	3	23	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	0	-37	1,267	2,958	2,408	2,458	1,381	22	0	0	0	0
Water Year Types[b]												
Wet (32%)	1	-118	3,538	5,381	2,412	2,732	1,911	69	0	0	0	0
Above Normal (15%)	0	0	297	3,995	3,826	3,447	2,454	0	0	0	0	0
Below Normal (17%)	0	0	225	2,427	3,292	2,780	1,534	0	0	0	0	0
Dry (22%)	0	0	266	841	1,992	2,470	658	0	0	0	0	0
Critical (15%)	0	0	34	466	571	481	62	0	0	0	0	0

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-18-25. Fremont Weir, Monthly Spills

No Action Alternative (LLT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	5,079	23,714	42,108	17,813	1,744	0	0	0	0	0
20%	0	0	0	9,090	14,222	5,684	0	0	0	0	0	0
30%	0	0	0	849	3,953	621	0	0	0	0	0	0
40%	0	0	0	0	821	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	12	159	2,151	8,533	11,171	7,037	1,142	14	0	0	0	0
Water Year Types[b]												
Wet (32%)	39	502	5,906	24,758	29,796	18,802	3,513	43	0	0	0	0
Above Normal (15%)	0	0	926	4,602	10,011	7,175	158	0	0	0	0	0
Below Normal (17%)	0	0	839	0	691	5	28	0	0	0	0	0
Dry (22%)	0	0	0	45	641	111	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

Alternative 9 (LLT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	8,062	26,689	43,348	19,508	5,748	100	100	0	0	100
20%	100	100	2,823	11,336	15,499	8,030	4,045	100	100	0	0	100
30%	100	100	1,310	5,462	8,263	5,039	861	100	100	0	0	100
40%	100	100	497	2,778	5,199	3,658	308	100	100	0	0	100
50%	100	100	176	1,473	3,247	1,732	121	100	100	0	0	100
60%	100	100	100	737	1,496	946	100	100	100	0	0	100
70%	100	100	100	141	570	345	100	100	100	0	0	100
80%	100	100	100	100	124	183	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	113	265	2,968	9,969	12,595	8,481	2,187	113	100	0	0	100
Water Year Types[b]												
Wet (32%)	140	621	7,748	26,900	31,371	20,664	5,680	142	100	0	0	100
Above Normal (15%)	100	100	1,455	6,556	11,996	9,538	1,613	100	100	0	0	100
Below Normal (17%)	100	100	1,198	1,658	2,846	1,231	546	100	100	0	0	100
Dry (22%)	100	100	337	640	1,550	1,206	185	100	100	0	0	100
Critical (15%)	100	100	137	390	453	403	108	100	100	0	0	100

Alternative 9 (LLT) minus No Action Alternative (LLT)

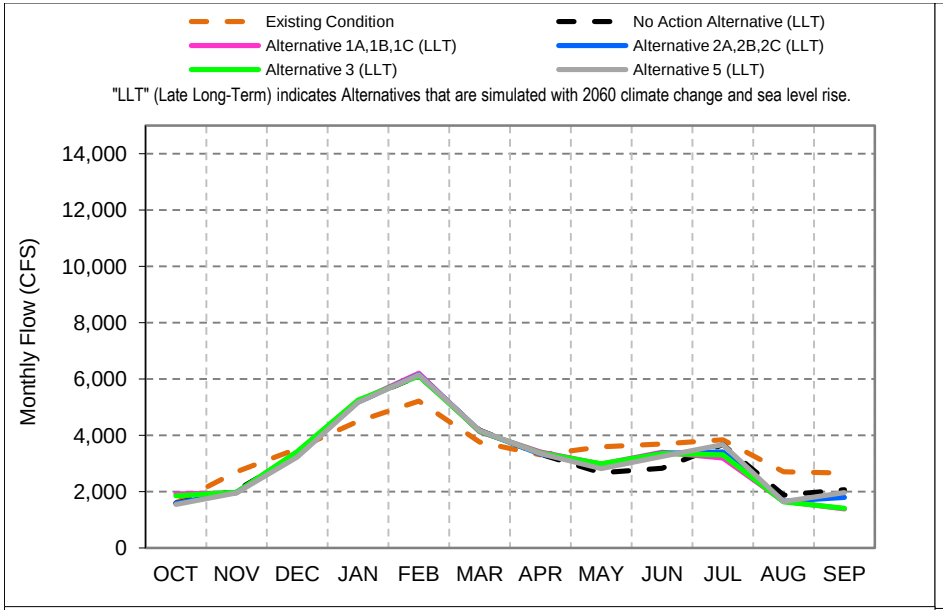
	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	2,983	2,975	1,240	1,696	4,004	100	100	0	0	100
20%	100	100	2,823	2,246	1,277	2,346	4,045	100	100	0	0	100
30%	100	100	1,310	4,614	4,310	4,417	861	100	100	0	0	100
40%	100	100	497	2,778	4,378	3,658	308	100	100	0	0	100
50%	100	100	176	1,473	3,247	1,732	121	100	100	0	0	100
60%	100	100	100	737	1,496	946	100	100	100	0	0	100
70%	100	100	100	141	570	345	100	100	100	0	0	100
80%	100	100	100	100	124	183	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	100	106	817	1,436	1,424	1,444	1,045	100	100	0	0	100
Water Year Types[b]												
Wet (32%)	101	120	1,842	2,142	1,575	1,862	2,167	99	100	0	0	100
Above Normal (15%)	100	100	528	1,954	1,984	2,363	1,455	100	100	0	0	100
Below Normal (17%)	100	100	359	1,658	2,155	1,226	517	100	100	0	0	100
Dry (22%)	100	100	337	595	909	1,094	185	100	100	0	0	100
Critical (15%)	100	100	137	390	453	403	108	100	100	0	0	100

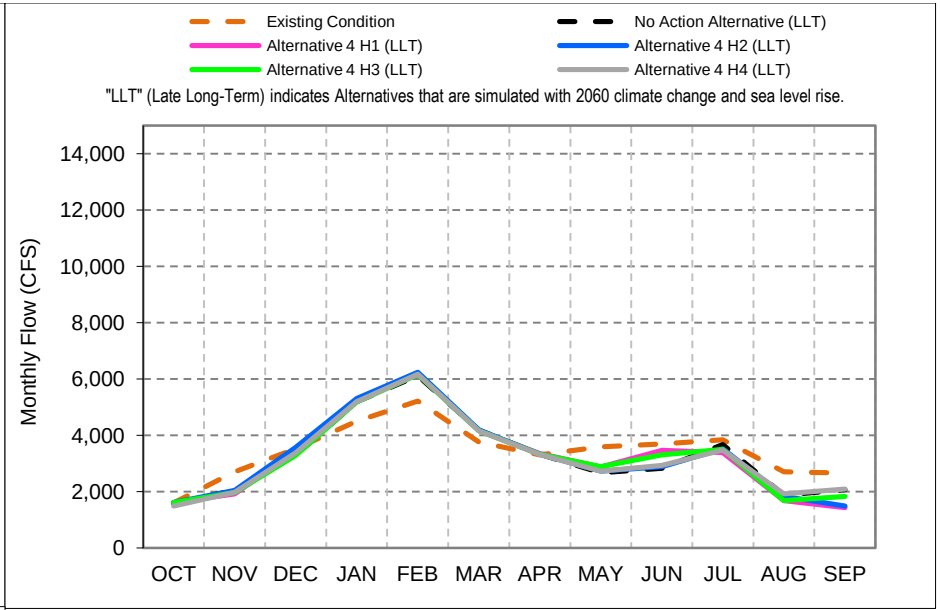
Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

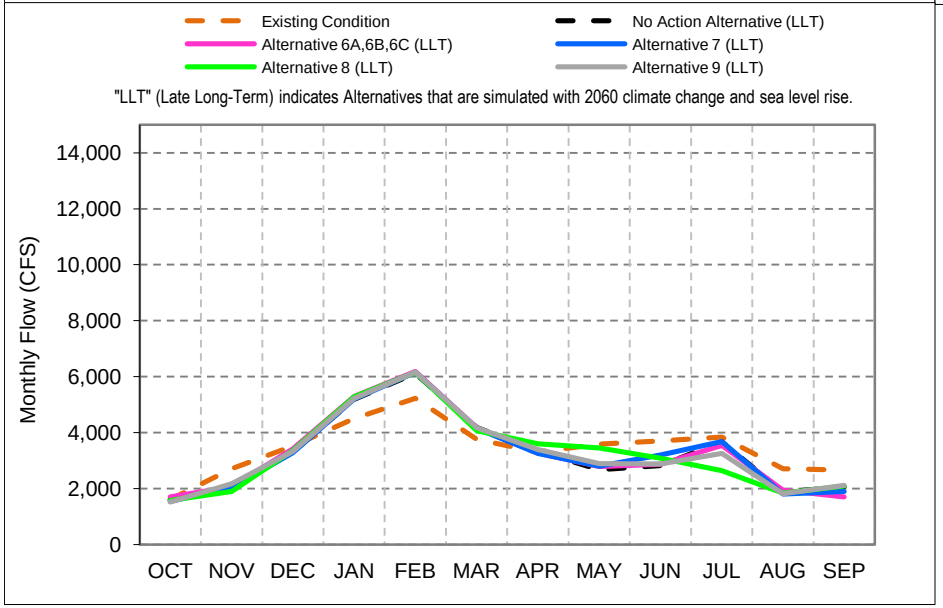
a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

C.19. American River Flow downstream of Folsom



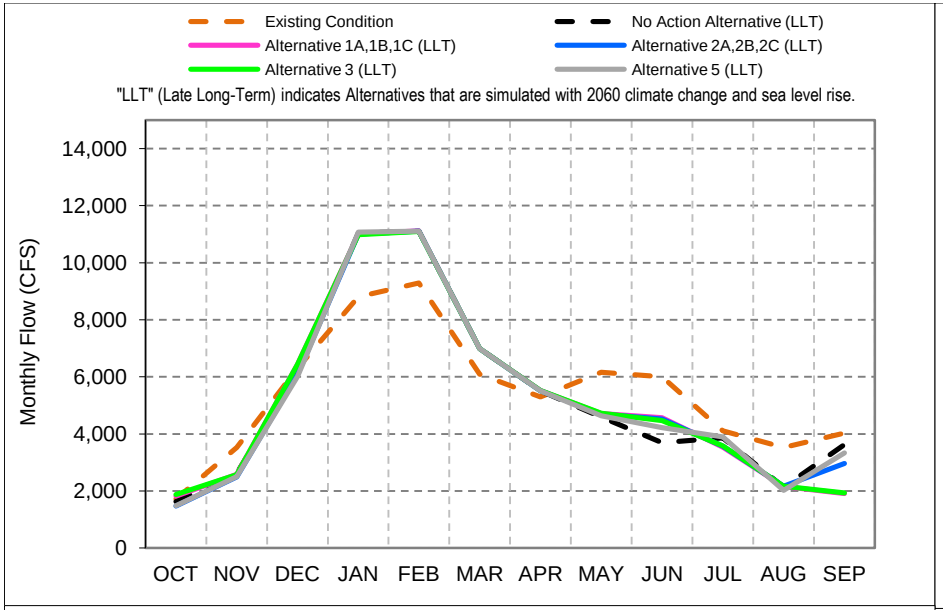


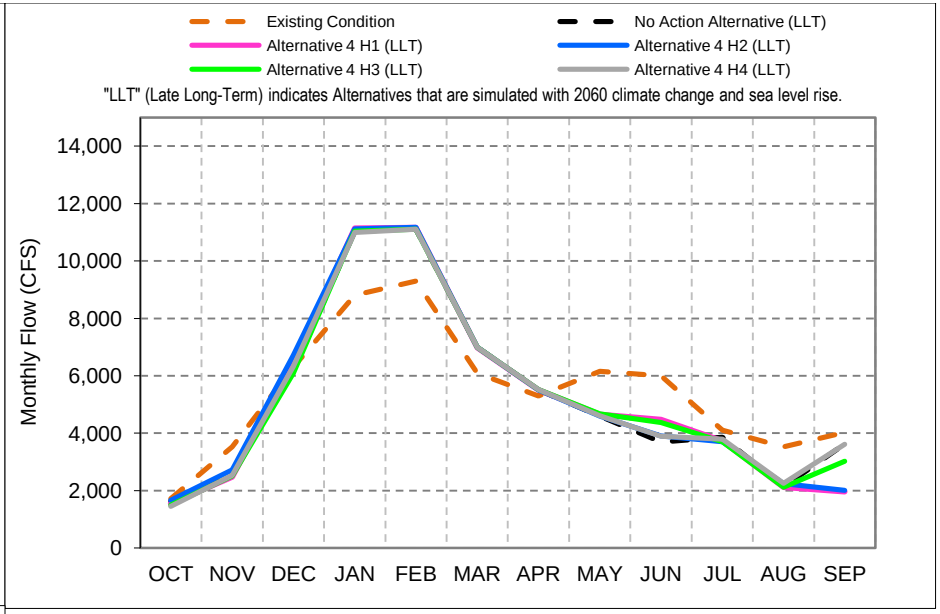


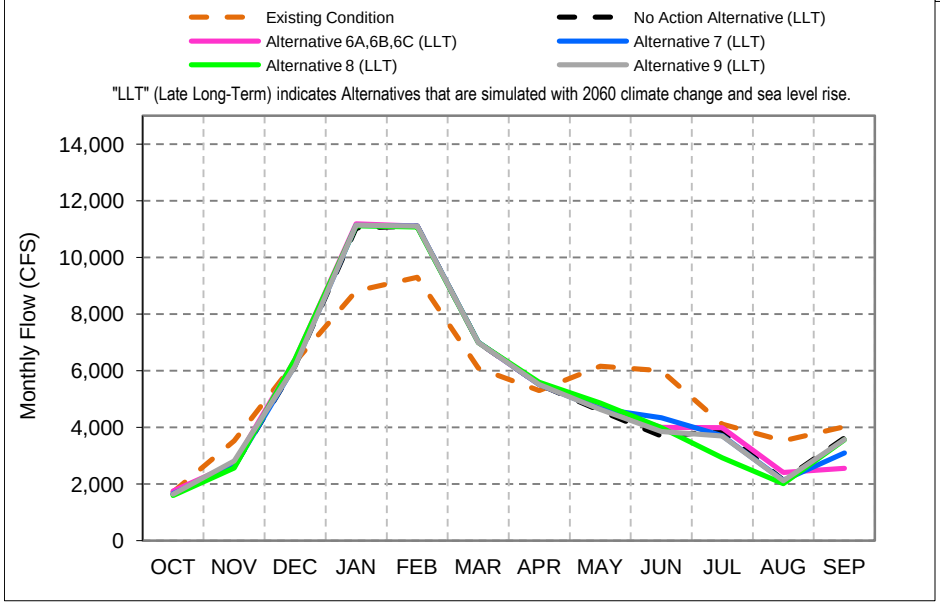
Alternative 4 Scenario Definitions:

H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

Figure C-19-1. American River d/s of Nimbus Dam, Long-Term Average Flow





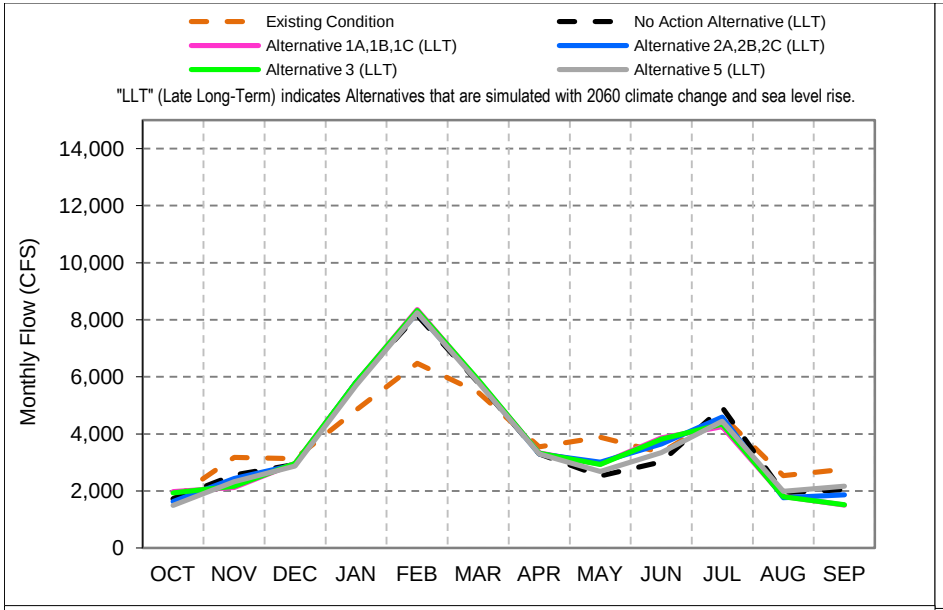


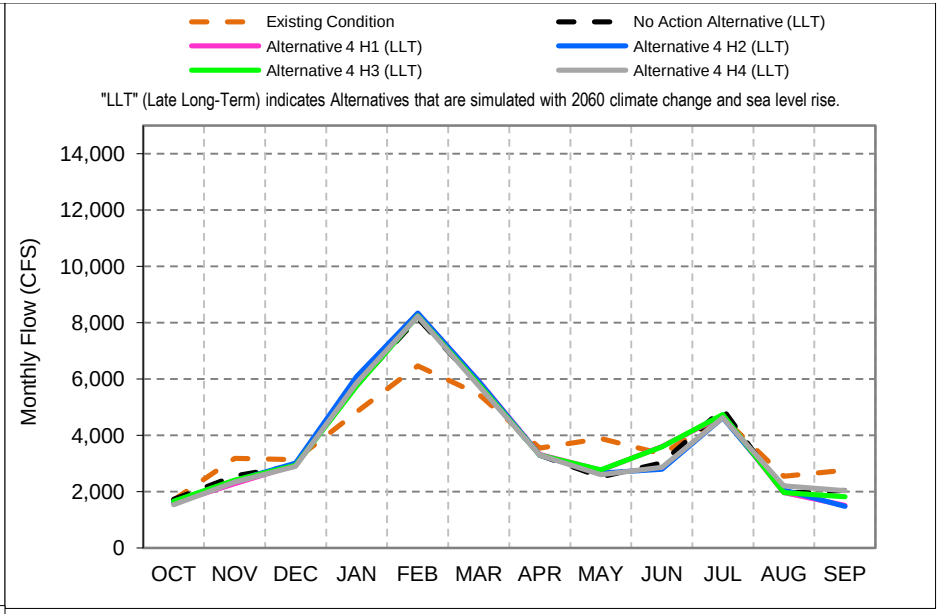
Alternative 4 Scenario Definitions:

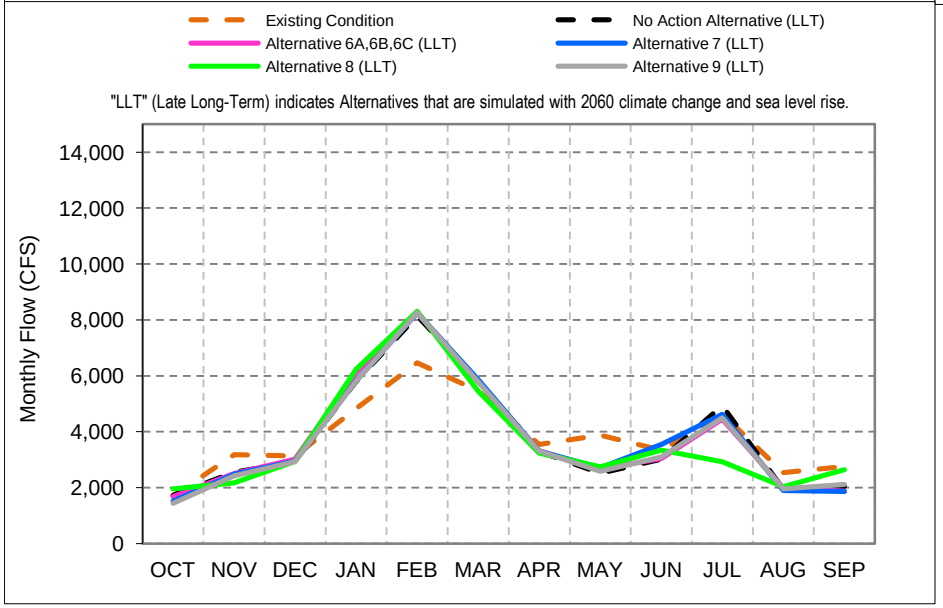
H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-19-2. American River d/s of Nimbus Dam, Wet Year* Average Flow





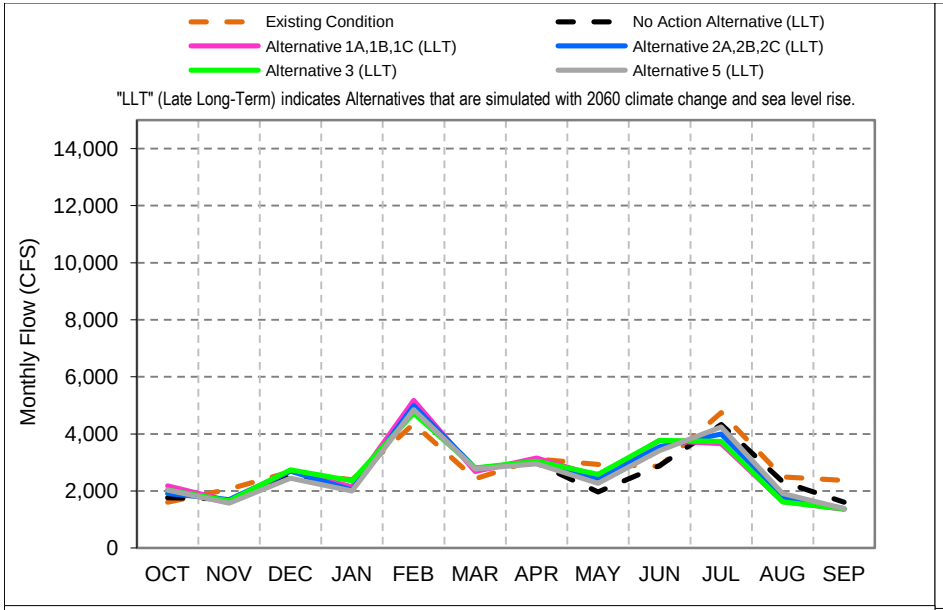


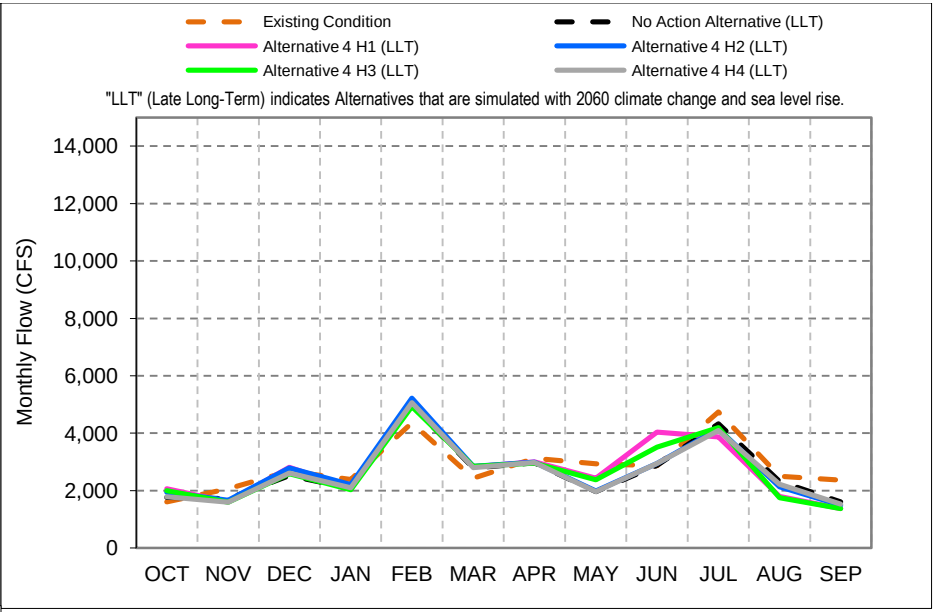
Alternative 4 Scenario Definitions:

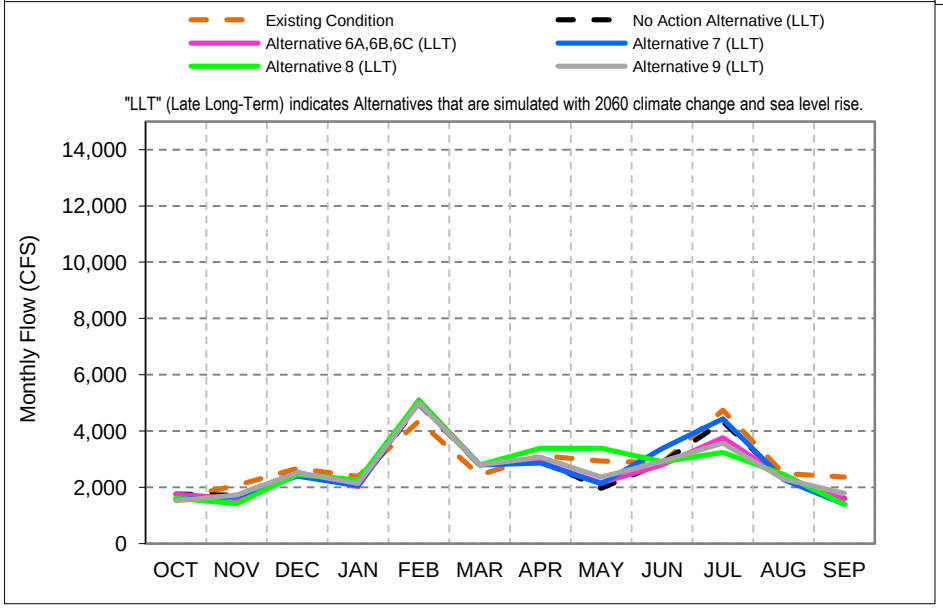
H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-19-3. American River d/s of Nimbus Dam, Above Normal Year* Average Flow





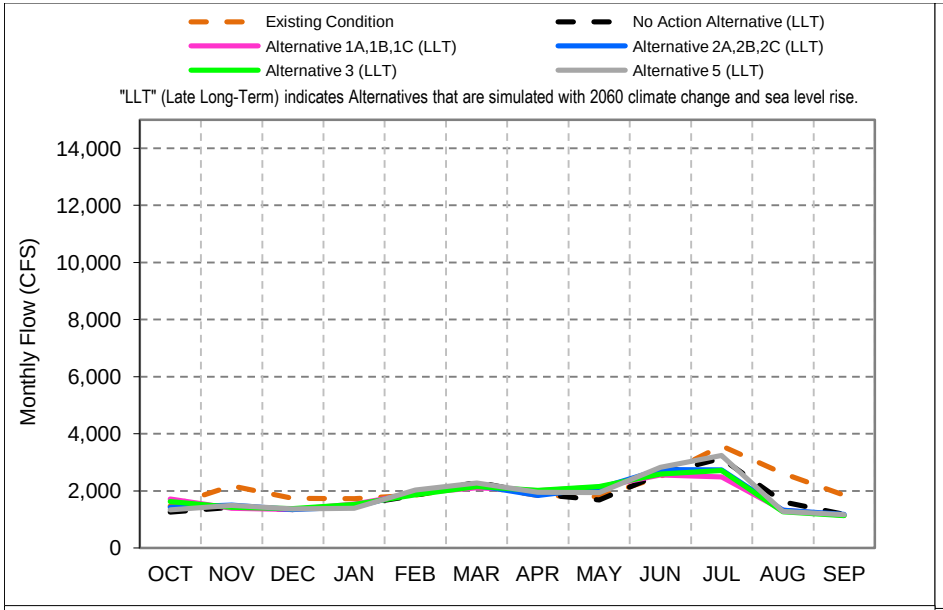


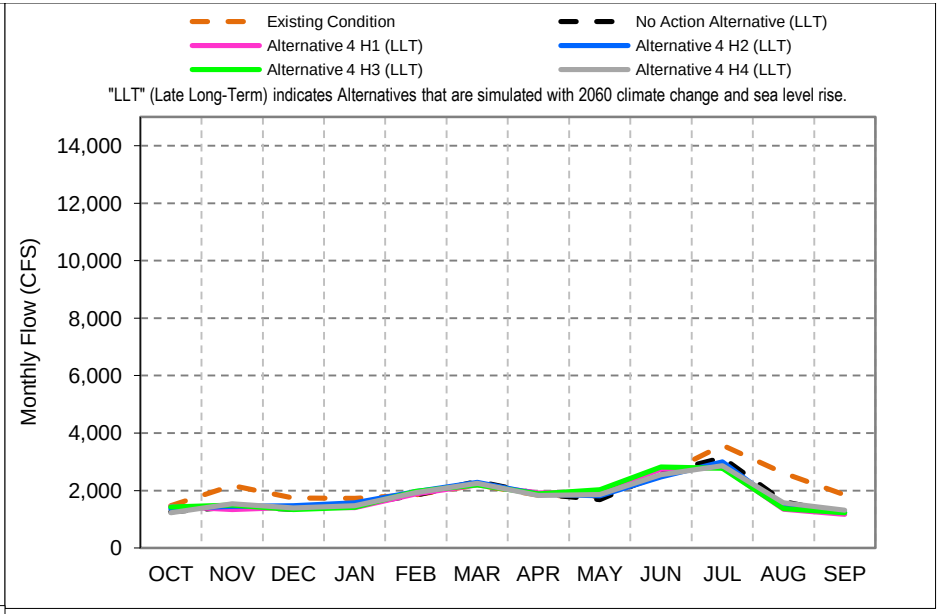
Alternative 4 Scenario Definitions:

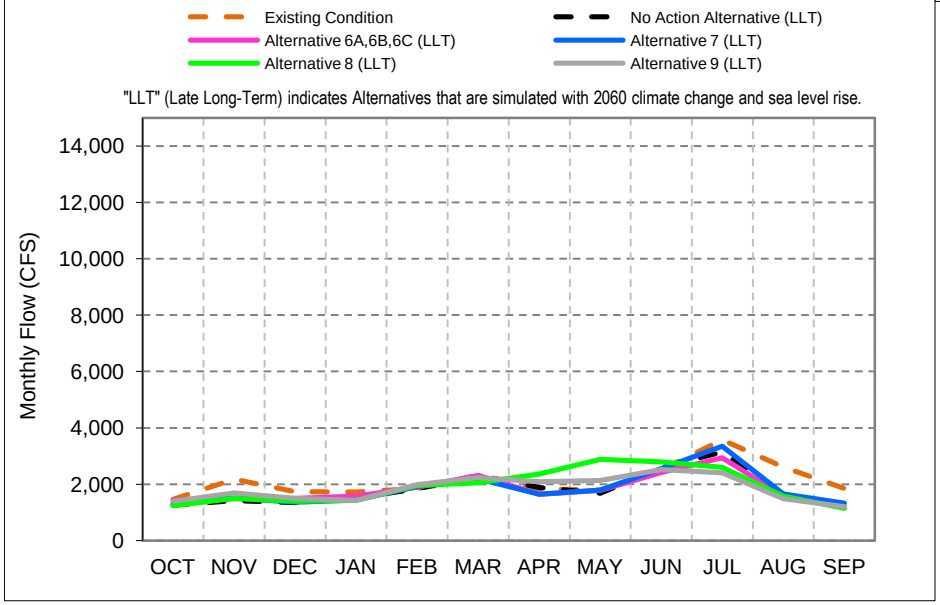
H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-19-4. American River d/s of Nimbus Dam, Below Normal Year* Average Flow





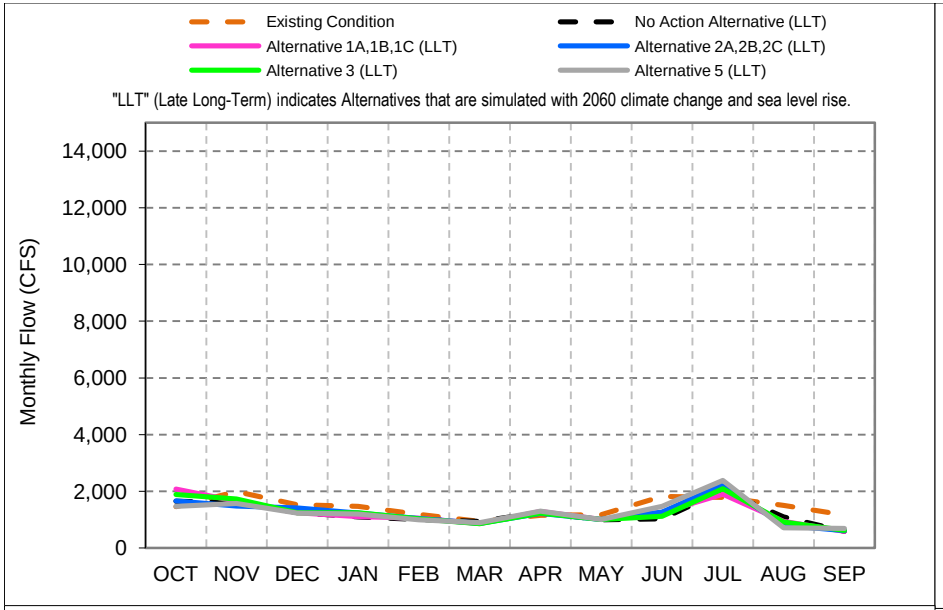


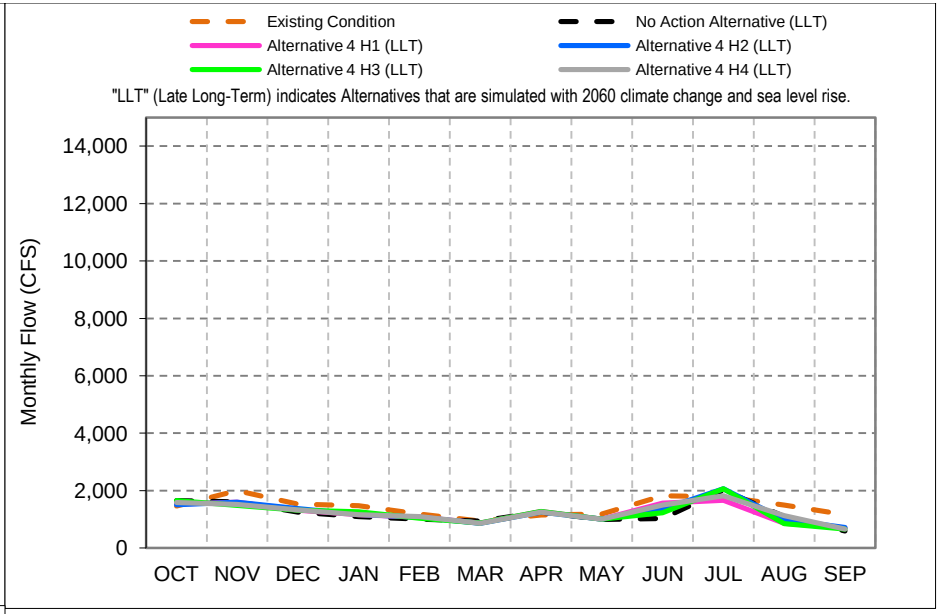
Alternative 4 Scenario Definitions:

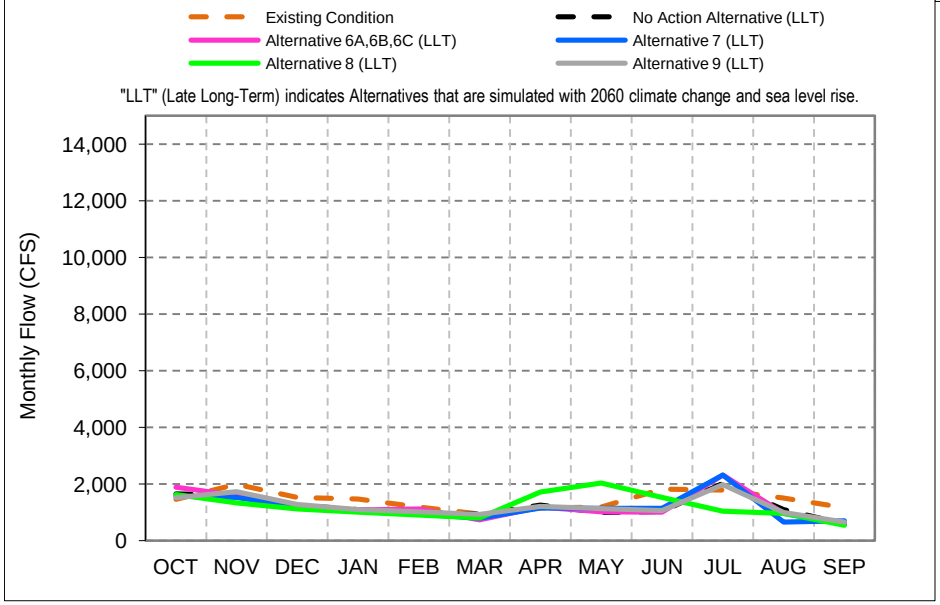
H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-19-5. American River d/s of Nimbus Dam, Dry Year* Average Flow







Alternative 4 Scenario Definitions:

H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-19-6. American River d/s of Nimbus Dam, Critical Year* Average Flow

Table C-19-1. American River d/s of Nimbus Dam, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,257	4,282	7,245	10,559	11,669	8,886	6,694	8,326	7,207	5,000	4,280	4,311
20%	1,723	3,062	4,444	6,735	9,108	5,544	5,098	5,048	5,136	5,000	3,823	4,177
30%	1,500	2,657	2,507	4,684	6,367	4,132	4,121	4,228	4,295	4,982	3,090	3,687
40%	1,500	2,398	2,000	3,087	4,750	3,426	3,287	3,591	3,197	4,577	2,920	3,193
50%	1,500	2,009	2,000	2,005	3,504	2,524	2,385	2,875	2,850	4,123	2,719	2,570
60%	1,500	1,925	2,000	1,700	2,413	1,843	2,057	1,750	2,344	3,623	2,502	2,041
70%	1,500	1,714	1,782	1,700	1,565	1,508	1,668	1,445	1,904	3,150	2,263	1,622
80%	1,500	1,534	1,499	1,542	1,445	1,143	1,445	1,339	1,750	2,930	1,752	1,207
90%	1,210	949	952	1,141	1,225	891	925	925	1,429	1,891	1,256	906
Long Term												
Full Simulation Period[a]	1,605	2,706	3,519	4,502	5,218	3,762	3,305	3,587	3,699	3,838	2,707	2,663
Water Year Types[b]												
Wet (32%)	1,723	3,527	6,302	8,806	9,294	6,089	5,300	6,157	6,003	4,108	3,520	4,025
Above Normal (15%)	1,706	3,181	3,137	4,833	6,469	5,454	3,546	3,885	3,346	4,638	2,542	2,764
Below Normal (17%)	1,602	2,067	2,676	2,392	4,360	2,429	3,126	2,930	2,863	4,744	2,495	2,370
Dry (22%)	1,468	2,176	1,741	1,723	1,852	2,191	1,837	1,790	2,506	3,577	2,613	1,856
Critical (15%)	1,461	1,994	1,524	1,474	1,185	939	1,156	1,182	1,824	1,784	1,500	1,164

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,799	2,943	8,472	13,543	15,920	9,685	6,898	6,542	5,000	5,000	3,007	4,089
20%	1,948	2,541	2,621	8,534	11,151	6,067	4,987	3,495	3,811	5,000	2,586	3,527
30%	1,710	1,925	2,000	5,362	6,966	4,749	4,203	2,624	3,266	5,000	2,323	2,588
40%	1,509	1,683	2,000	2,559	5,186	3,902	3,070	2,357	3,015	4,657	1,927	1,917
50%	1,500	1,593	1,786	1,750	3,198	2,908	2,609	1,759	2,673	4,072	1,839	1,548
60%	1,479	1,413	1,620	1,700	2,020	2,092	1,760	1,611	2,347	3,559	1,750	1,533
70%	1,181	1,162	1,214	1,488	1,445	1,466	1,513	1,358	1,761	2,923	1,540	1,420
80%	902	809	800	1,152	1,264	824	1,164	988	1,513	2,331	939	802
90%	800	800	800	800	902	800	800	800	959	1,349	800	721
Long Term												
Full Simulation Period[a]	1,592	2,043	3,297	5,194	6,112	4,187	3,334	2,676	2,825	3,670	1,874	2,068
Water Year Types[b]												
Wet (32%)	1,634	2,612	6,171	11,036	11,102	6,992	5,508	4,592	3,694	3,860	2,132	3,622
Above Normal (15%)	1,732	2,554	2,933	5,805	8,153	5,790	3,298	2,521	3,022	4,927	1,944	2,044
Below Normal (17%)	1,767	1,716	2,527	2,073	4,961	2,794	2,970	1,969	2,883	4,328	2,324	1,605
Dry (22%)	1,258	1,424	1,351	1,506	1,844	2,314	1,888	1,686	2,596	3,143	1,620	1,182
Critical (15%)	1,655	1,608	1,251	1,095	1,007	938	1,255	992	1,025	2,022	1,100	594

No Action Alternative (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	542	**-1,339**	1,227	2,984	4,251	799	204	**-1,784**	**-2,207**	0	**-1,273**	**-222**
20%	225	**-521**	**-1,823**	1,800	2,043	523	**-111**	**-1,553**	**-1,325**	0	**-1,238**	**-650**
30%	210	**-732**	**-507**	678	598	617	81	**-1,605**	**-1,029**	18	**-768**	**-1,099**
40%	9	**-714**	0	**-527**	436	476	**-217**	**-1,234**	**-182**	79	**-993**	**-1,276**
50%	0	**-415**	**-214**	**-255**	**-306**	383	224	**-1,116**	**-178**	**-51**	**-879**	**-1,022**
60%	**-21**	**-512**	**-380**	0	**-393**	249	**-297**	**-139**	3	**-64**	**-752**	**-507**
70%	**-319**	**-552**	**-568**	**-213**	**-120**	**-42**	**-155**	**-87**	**-143**	**-227**	**-722**	**-202**
80%	**-598**	**-725**	**-699**	**-390**	**-181**	**-319**	**-281**	**-350**	**-237**	**-599**	**-813**	**-405**
90%	**-410**	**-149**	**-152**	**-341**	**-323**	**-91**	**-125**	**-125**	**-470**	**-542**	**-456**	**-185**
Long Term												
Full Simulation Period[a]	**-14**	**-663**	**-222**	692	895	425	29	**-910**	**-873**	**-168**	**-833**	**-595**
Water Year Types[b]												
Wet (32%)	**-88**	**-915**	**-131**	2,230	1,808	904	208	**-1,565**	**-2,310**	**-248**	**-1,388**	**-402**
Above Normal (15%)	26	**-627**	**-204**	972	1,684	337	**-247**	**-1,364**	**-323**	289	**-597**	**-721**
Below Normal (17%)	165	**-351**	**-149**	**-319**	602	365	**-156**	**-961**	19	**-416**	**-171**	**-766**
Dry (22%)	**-210**	**-752**	**-390**	**-217**	**-8**	123	51	**-104**	90	**-434**	**-993**	**-674**
Critical (15%)	194	**-386**	**-273**	**-379**	**-179**	**-1**	100	**-190**	**-799**	238	**-400**	**-571**

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-19-2. American River d/s of Nimbus Dam, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,257	4,282	7,245	10,559	11,669	8,886	6,694	8,326	7,207	5,000	4,280	4,311
20%	1,723	3,062	4,444	6,735	9,108	5,544	5,098	5,048	5,136	5,000	3,823	4,177
30%	1,500	2,657	2,507	4,684	6,367	4,132	4,121	4,228	4,295	4,982	3,090	3,687
40%	1,500	2,398	2,000	3,087	4,750	3,426	3,287	3,591	3,197	4,577	2,920	3,193
50%	1,500	2,009	2,000	2,005	3,504	2,524	2,385	2,875	2,850	4,123	2,719	2,570
60%	1,500	1,925	2,000	1,700	2,413	1,843	2,057	1,750	2,344	3,623	2,502	2,041
70%	1,500	1,714	1,782	1,700	1,565	1,508	1,668	1,445	1,904	3,150	2,263	1,622
80%	1,500	1,534	1,499	1,542	1,445	1,143	1,445	1,339	1,750	2,930	1,752	1,207
90%	1,210	949	952	1,141	1,225	891	925	925	1,429	1,891	1,256	906
Long Term												
Full Simulation Period[a]	1,605	2,706	3,519	4,502	5,218	3,762	3,305	3,587	3,699	3,838	2,707	2,663
Water Year Types[b]												
Wet (32%)	1,723	3,527	6,302	8,806	9,294	6,089	5,300	6,157	6,003	4,108	3,520	4,025
Above Normal (15%)	1,706	3,181	3,137	4,833	6,469	5,454	3,546	3,885	3,346	4,638	2,542	2,764
Below Normal (17%)	1,602	2,067	2,676	2,392	4,360	2,429	3,126	2,930	2,863	4,744	2,495	2,370
Dry (22%)	1,468	2,176	1,741	1,723	1,852	2,191	1,837	1,790	2,506	3,577	2,613	1,856
Critical (15%)	1,461	1,994	1,524	1,474	1,185	939	1,156	1,182	1,824	1,784	1,500	1,164

Alternative 1A,1B,1C (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,651	2,401	8,619	13,543	15,947	9,192	6,987	6,542	5,000	5,000	2,507	1,727
20%	2,716	1,925	3,463	8,519	11,230	6,066	4,998	3,832	4,874	4,946	2,226	1,533
30%	2,241	1,925	2,000	5,645	7,583	4,822	4,302	3,059	4,340	4,044	1,964	1,533
40%	1,778	1,919	2,000	2,571	5,321	4,010	3,114	2,645	3,936	3,527	1,750	1,533
50%	1,500	1,712	1,869	1,927	3,739	2,868	2,535	2,308	3,546	3,291	1,750	1,533
60%	1,500	1,593	1,750	1,700	2,357	1,750	1,873	1,944	3,112	2,745	1,750	1,518
70%	1,339	1,208	1,136	1,668	1,445	1,350	1,685	1,750	2,535	2,515	1,417	1,264
80%	874	923	803	1,193	1,294	835	1,400	1,452	1,737	2,019	800	800
90%	800	800	800	803	800	800	800	800	1,135	892	577	557
Long Term												
Full Simulation Period[a]	1,920	1,957	3,413	5,207	6,210	4,123	3,407	2,973	3,400	3,191	1,657	1,393
Water Year Types[b]												
Wet (32%)	1,823	2,578	6,435	11,011	11,122	6,987	5,519	4,718	4,568	3,530	2,159	1,906
Above Normal (15%)	1,976	2,120	2,966	5,803	8,361	5,870	3,337	2,944	3,857	4,253	1,810	1,500
Below Normal (17%)	2,177	1,647	2,704	2,149	5,174	2,688	3,156	2,517	3,768	3,660	1,633	1,363
Dry (22%)	1,717	1,394	1,349	1,535	1,923	2,113	2,012	2,134	2,552	2,494	1,328	1,141
Critical (15%)	2,080	1,655	1,239	1,109	1,055	862	1,289	1,009	1,258	1,895	940	588

Alternative 1A,1B,1C (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,394	**-1,881**	1,373	2,984	4,278	307	293	**-1,784**	**-2,207**	0	**-1,773**	**-2,584**
20%	993	**-1,137**	**-981**	1,784	2,122	522	**-99**	**-1,216**	**-262**	**-54**	**-1,598**	**-2,644**
30%	741	**-732**	**-507**	961	1,215	690	181	**-1,169**	45	**-937**	**-1,127**	**-2,154**
40%	278	**-479**	0	**-516**	571	584	**-173**	**-945**	739	**-1,051**	**-1,170**	**-1,659**
50%	0	**-296**	**-131**	**-79**	235	344	150	**-567**	696	**-832**	**-969**	**-1,036**
60%	0	**-332**	**-250**	0	**-57**	**-93**	**-184**	194	768	**-879**	**-752**	**-523**
70%	**-161**	**-506**	**-646**	**-32**	**-120**	**-158**	17	305	631	**-635**	**-846**	**-359**
80%	**-626**	**-610**	**-696**	**-349**	**-151**	**-308**	**-45**	113	**-13**	**-912**	**-952**	**-407**
90%	**-410**	**-149**	**-152**	**-338**	**-425**	**-91**	**-125**	**-125**	**-294**	**-999**	**-679**	**-349**
Long Term												
Full Simulation Period[a]	315	**-749**	**-106**	705	992	361	102	**-614**	**-299**	**-646**	**-1,050**	**-1,270**
Water Year Types[b]												
Wet (32%)	100	**-949**	134	2,205	1,828	899	219	**-1,438**	**-1,435**	**-578**	**-1,362**	**-2,118**
Above Normal (15%)	270	**-1,061**	**-171**	970	1,892	416	**-209**	**-941**	511	**-385**	**-732**	**-1,264**
Below Normal (17%)	575	**-421**	28	**-243**	814	259	31	**-413**	904	**-1,084**	**-862**	**-1,008**
Dry (22%)	249	**-783**	**-392**	**-188**	70	**-79**	175	344	47	**-1,084**	**-1,285**	**-715**
Critical (15%)	620	**-339**	**-285**	**-365**	**-130**	**-77**	133	**-173**	**-566**	111	**-560**	**-577**

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-19-3. American River d/s of Nimbus Dam, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,257	4,282	7,245	10,559	11,669	8,886	6,694	8,326	7,207	5,000	4,280	4,311
20%	1,723	3,062	4,444	6,735	9,108	5,544	5,098	5,048	5,136	5,000	3,823	4,177
30%	1,500	2,657	2,507	4,684	6,367	4,132	4,121	4,228	4,295	4,982	3,090	3,687
40%	1,500	2,398	2,000	3,087	4,750	3,426	3,287	3,591	3,197	4,577	2,920	3,193
50%	1,500	2,009	2,000	2,005	3,504	2,524	2,385	2,875	2,850	4,123	2,719	2,570
60%	1,500	1,925	2,000	1,700	2,413	1,843	2,057	1,750	2,344	3,623	2,502	2,041
70%	1,500	1,714	1,782	1,700	1,565	1,508	1,668	1,445	1,904	3,150	2,263	1,622
80%	1,500	1,534	1,499	1,542	1,445	1,143	1,445	1,339	1,750	2,930	1,752	1,207
90%	1,210	949	952	1,141	1,225	891	925	925	1,429	1,891	1,256	906
Long Term												
Full Simulation Period[a]	1,605	2,706	3,519	4,502	5,218	3,762	3,305	3,587	3,699	3,838	2,707	2,663
Water Year Types[b]												
Wet (32%)	1,723	3,527	6,302	8,806	9,294	6,089	5,300	6,157	6,003	4,108	3,520	4,025
Above Normal (15%)	1,706	3,181	3,137	4,833	6,469	5,454	3,546	3,885	3,346	4,638	2,542	2,764
Below Normal (17%)	1,602	2,067	2,676	2,392	4,360	2,429	3,126	2,930	2,863	4,744	2,495	2,370
Dry (22%)	1,468	2,176	1,741	1,723	1,852	2,191	1,837	1,790	2,506	3,577	2,613	1,856
Critical (15%)	1,461	1,994	1,524	1,474	1,185	939	1,156	1,182	1,824	1,784	1,500	1,164

Alternative 2A,2B,2C (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,498	3,097	8,552	13,543	15,925	9,193	6,981	6,542	5,000	5,000	2,418	3,455
20%	2,240	1,925	2,621	8,535	11,228	6,070	4,981	4,070	4,967	5,000	2,167	2,853
30%	1,549	1,917	2,038	5,645	7,467	4,812	4,271	3,061	4,620	4,716	1,947	2,053
40%	1,500	1,804	2,000	2,638	5,273	4,245	2,994	2,623	3,863	3,850	1,750	1,533
50%	1,500	1,683	1,882	1,750	3,324	2,908	2,384	2,338	3,430	3,336	1,750	1,533
60%	1,500	1,396	1,750	1,700	1,916	1,750	1,760	1,759	2,900	3,027	1,750	1,532
70%	1,286	1,133	1,169	1,596	1,541	1,439	1,632	1,652	2,313	2,634	1,450	1,331
80%	813	800	800	1,146	1,445	832	1,217	1,320	1,578	2,349	848	800
90%	800	800	800	800	803	800	800	800	945	1,496	800	718
Long Term												
Full Simulation Period[a]	1,588	1,984	3,319	5,187	6,165	4,157	3,326	2,948	3,363	3,412	1,659	1,795
Water Year Types[b]												
Wet (32%)	1,476	2,495	6,083	11,011	11,106	6,989	5,515	4,695	4,520	3,575	2,162	2,966
Above Normal (15%)	1,630	2,439	2,922	5,811	8,247	5,848	3,300	3,004	3,651	4,590	1,768	1,863
Below Normal (17%)	1,910	1,700	2,694	2,034	4,992	2,797	2,993	2,418	3,551	3,995	1,799	1,377
Dry (22%)	1,422	1,501	1,348	1,442	1,969	2,191	1,841	2,098	2,750	2,733	1,320	1,177
Critical (15%)	1,660	1,479	1,409	1,237	1,036	868	1,226	1,002	1,267	2,221	802	608

Alternative 2A,2B,2C (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	242	**-1,185**	1,307	2,984	4,256	307	288	**-1,784**	**-2,207**	0	**-1,862**	**-856**
20%	516	**-1,137**	**-1,824**	1,800	2,120	526	**-116**	**-978**	**-169**	0	**-1,656**	**-1,325**
30%	49	**-740**	**-469**	961	1,100	679	150	**-1,167**	325	**-265**	**-1,143**	**-1,634**
40%	0	**-594**	0	**-449**	522	819	**-294**	**-967**	666	**-727**	**-1,170**	**-1,659**
50%	0	**-325**	**-118**	**-255**	**-180**	383	**-2**	**-537**	580	**-787**	**-969**	**-1,036**
60%	0	**-529**	**-250**	0	**-497**	**-93**	**-297**	9	556	**-597**	**-752**	**-509**
70%	**-214**	**-582**	**-614**	**-104**	**-24**	**-69**	**-36**	207	409	**-516**	**-812**	**-291**
80%	**-687**	**-734**	**-699**	**-396**	0	**-312**	**-228**	**-19**	**-172**	**-581**	**-904**	**-407**
90%	**-410**	**-149**	**-152**	**-341**	**-422**	**-91**	**-125**	**-125**	**-484**	**-395**	**-456**	**-188**
Long Term												
Full Simulation Period[a]	**-18**	**-722**	**-200**	685	947	396	21	**-638**	**-336**	**-426**	**-1,048**	**-868**
Water Year Types[b]												
Wet (32%)	**-246**	**-1,032**	**-218**	2,205	1,812	901	215	**-1,462**	**-1,484**	**-534**	**-1,358**	**-1,058**
Above Normal (15%)	**-76**	**-741**	**-215**	978	1,778	394	**-246**	**-881**	306	**-48**	**-773**	**-901**
Below Normal (17%)	308	**-367**	18	**-359**	632	368	**-132**	**-512**	688	**-750**	**-696**	**-993**
Dry (22%)	**-46**	**-675**	**-392**	**-281**	117	**-1**	4	308	244	**-845**	**-1,292**	**-679**
Critical (15%)	199	**-515**	**-115**	**-237**	**-149**	**-71**	71	**-180**	**-557**	437	**-698**	**-557**

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-19-4. American River d/s of Nimbus Dam, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,257	4,282	7,245	10,559	11,669	8,886	6,694	8,326	7,207	5,000	4,280	4,311
20%	1,723	3,062	4,444	6,735	9,108	5,544	5,098	5,048	5,136	5,000	3,823	4,177
30%	1,500	2,657	2,507	4,684	6,367	4,132	4,121	4,228	4,295	4,982	3,090	3,687
40%	1,500	2,398	2,000	3,087	4,750	3,426	3,287	3,591	3,197	4,577	2,920	3,193
50%	1,500	2,009	2,000	2,005	3,504	2,524	2,385	2,875	2,850	4,123	2,719	2,570
60%	1,500	1,925	2,000	1,700	2,413	1,843	2,057	1,750	2,344	3,623	2,502	2,041
70%	1,500	1,714	1,782	1,700	1,565	1,508	1,668	1,445	1,904	3,150	2,263	1,622
80%	1,500	1,534	1,499	1,542	1,445	1,143	1,445	1,339	1,750	2,930	1,752	1,207
90%	1,210	949	952	1,141	1,225	891	925	925	1,429	1,891	1,256	906
Long Term												
Full Simulation Period[a]	1,605	2,706	3,519	4,502	5,218	3,762	3,305	3,587	3,699	3,838	2,707	2,663
Water Year Types[b]												
Wet (32%)	1,723	3,527	6,302	8,806	9,294	6,089	5,300	6,157	6,003	4,108	3,520	4,025
Above Normal (15%)	1,706	3,181	3,137	4,833	6,469	5,454	3,546	3,885	3,346	4,638	2,542	2,764
Below Normal (17%)	1,602	2,067	2,676	2,392	4,360	2,429	3,126	2,930	2,863	4,744	2,495	2,370
Dry (22%)	1,468	2,176	1,741	1,723	1,852	2,191	1,837	1,790	2,506	3,577	2,613	1,856
Critical (15%)	1,461	1,994	1,524	1,474	1,185	939	1,156	1,182	1,824	1,784	1,500	1,164

Alternative 3 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,662	2,405	8,676	13,543	15,898	9,454	6,898	6,542	5,000	5,000	2,457	1,791
20%	2,703	1,925	3,463	8,523	11,230	6,066	4,982	3,967	4,812	5,000	2,254	1,533
30%	1,809	1,925	2,000	5,645	7,220	4,762	4,217	3,041	4,234	4,478	1,925	1,533
40%	1,603	1,908	2,000	2,964	5,179	4,188	3,157	2,612	3,779	3,545	1,750	1,533
50%	1,500	1,683	1,904	1,880	3,739	2,908	2,698	2,423	3,386	3,232	1,750	1,533
60%	1,499	1,578	1,750	1,700	2,020	1,750	1,904	2,009	3,008	2,899	1,745	1,519
70%	1,211	1,211	1,194	1,700	1,445	1,349	1,657	1,750	2,627	2,572	1,490	1,210
80%	857	892	800	1,438	1,285	835	1,316	1,445	1,580	2,262	800	800
90%	800	800	800	806	803	800	800	800	1,121	1,414	488	557
Long Term												
Full Simulation Period[a]	1,857	1,979	3,426	5,254	6,102	4,154	3,380	2,988	3,352	3,310	1,638	1,407
Water Year Types[b]												
Wet (32%)	1,877	2,574	6,435	10,985	11,092	6,987	5,519	4,727	4,465	3,576	2,165	1,929
Above Normal (15%)	1,935	2,168	2,962	5,812	8,327	5,887	3,322	2,924	3,815	4,348	1,798	1,519
Below Normal (17%)	2,030	1,646	2,739	2,358	4,727	2,804	3,047	2,584	3,770	3,738	1,620	1,369
Dry (22%)	1,624	1,423	1,376	1,532	1,858	2,151	2,016	2,156	2,596	2,712	1,266	1,134
Critical (15%)	1,883	1,724	1,248	1,244	1,033	860	1,237	1,005	1,122	2,093	915	620

Alternative 3 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,405	**-1,877**	1,431	2,984	4,229	568	204	**-1,784**	**-2,207**	0	**-1,823**	**-2,520**
20%	979	**-1,137**	**-982**	1,788	2,122	522	**-116**	**-1,081**	**-324**	0	**-1,569**	**-2,644**
30%	309	**-732**	**-507**	961	852	630	96	**-1,187**	**-61**	**-504**	**-1,166**	**-2,154**
40%	103	**-490**	0	**-122**	428	762	**-130**	**-978**	582	**-1,032**	**-1,170**	**-1,659**
50%	0	**-325**	**-96**	**-125**	235	383	313	**-453**	536	**-891**	**-969**	**-1,036**
60%	**-1**	**-347**	**-250**	0	**-393**	**-93**	**-153**	259	664	**-724**	**-756**	**-522**
70%	**-289**	**-504**	**-588**	0	**-120**	**-159**	**-11**	305	723	**-577**	**-773**	**-413**
80%	**-643**	**-642**	**-699**	**-104**	**-160**	**-308**	**-129**	106	**-170**	**-668**	**-952**	**-407**
90%	**-410**	**-149**	**-152**	**-336**	**-422**	**-91**	**-125**	**-125**	**-308**	**-477**	**-768**	**-349**
Long Term												
Full Simulation Period[a]	251	**-727**	**-93**	752	884	392	75	**-598**	**-347**	**-528**	**-1,069**	**-1,256**
Water Year Types[b]												
Wet (32%)	154	**-953**	134	2,178	1,798	898	219	**-1,430**	**-1,538**	**-533**	**-1,355**	**-2,096**
Above Normal (15%)	229	**-1,013**	**-175**	979	1,858	433	**-224**	**-960**	469	**-290**	**-744**	**-1,246**
Below Normal (17%)	428	**-421**	63	**-35**	367	375	**-78**	**-346**	907	**-1,007**	**-875**	**-1,001**
Dry (22%)	156	**-754**	**-365**	**-191**	6	**-40**	179	366	91	**-865**	**-1,347**	**-722**
Critical (15%)	423	**-270**	**-276**	**-230**	**-152**	**-79**	82	**-176**	**-702**	309	**-585**	**-545**

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-19-5. American River d/s of Nimbus Dam, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,257	4,282	7,245	10,559	11,669	8,886	6,694	8,326	7,207	5,000	4,280	4,311
20%	1,723	3,062	4,444	6,735	9,108	5,544	5,098	5,048	5,136	5,000	3,823	4,177
30%	1,500	2,657	2,507	4,684	6,367	4,132	4,121	4,228	4,295	4,982	3,090	3,687
40%	1,500	2,398	2,000	3,087	4,750	3,426	3,287	3,591	3,197	4,577	2,920	3,193
50%	1,500	2,009	2,000	2,005	3,504	2,524	2,385	2,875	2,850	4,123	2,719	2,570
60%	1,500	1,925	2,000	1,700	2,413	1,843	2,057	1,750	2,344	3,623	2,502	2,041
70%	1,500	1,714	1,782	1,700	1,565	1,508	1,668	1,445	1,904	3,150	2,263	1,622
80%	1,500	1,534	1,499	1,542	1,445	1,143	1,445	1,339	1,750	2,930	1,752	1,207
90%	1,210	949	952	1,141	1,225	891	925	925	1,429	1,891	1,256	906
Long Term												
Full Simulation Period[a]	1,605	2,706	3,519	4,502	5,218	3,762	3,305	3,587	3,699	3,838	2,707	2,663
Water Year Types[b]												
Wet (32%)	1,723	3,527	6,302	8,806	9,294	6,089	5,300	6,157	6,003	4,108	3,520	4,025
Above Normal (15%)	1,706	3,181	3,137	4,833	6,469	5,454	3,546	3,885	3,346	4,638	2,542	2,764
Below Normal (17%)	1,602	2,067	2,676	2,392	4,360	2,429	3,126	2,930	2,863	4,744	2,495	2,370
Dry (22%)	1,468	2,176	1,741	1,723	1,852	2,191	1,837	1,790	2,506	3,577	2,613	1,856
Critical (15%)	1,461	1,994	1,524	1,474	1,185	939	1,156	1,182	1,824	1,784	1,500	1,164

Alternative 4 H1 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,461	2,159	8,679	13,543	15,920	9,380	6,950	6,542	5,000	5,000	2,508	1,872
20%	2,132	1,925	3,257	7,932	10,950	6,066	4,982	3,722	4,870	5,000	2,315	1,533
30%	1,750	1,925	2,001	5,645	7,463	4,829	4,218	2,991	4,440	4,845	1,964	1,533
40%	1,500	1,889	2,000	2,751	5,176	4,268	3,062	2,590	3,917	4,135	1,750	1,533
50%	1,500	1,686	1,944	1,783	3,673	2,908	2,507	2,161	3,557	3,361	1,750	1,533
60%	1,500	1,458	1,750	1,700	2,602	1,750	1,802	1,786	3,093	3,047	1,750	1,533
70%	1,228	1,125	1,170	1,697	1,518	1,346	1,582	1,542	2,643	2,673	1,437	1,354
80%	897	866	864	1,076	1,442	830	1,315	1,325	2,006	2,040	852	800
90%	800	800	800	800	800	800	800	803	1,074	955	800	722
Long Term												
Full Simulation Period[a]	1,620	1,925	3,460	5,244	6,189	4,174	3,351	2,873	3,466	3,390	1,689	1,437
Water Year Types[b]												
Wet (32%)	1,557	2,482	6,452	11,143	11,163	6,982	5,510	4,654	4,472	3,729	2,122	1,960
Above Normal (15%)	1,589	2,284	2,947	5,969	8,327	5,920	3,321	2,758	3,605	4,696	1,971	1,515
Below Normal (17%)	2,062	1,612	2,806	2,098	5,029	2,834	2,995	2,435	4,040	3,866	1,793	1,370
Dry (22%)	1,449	1,341	1,416	1,411	1,888	2,200	1,913	1,957	2,743	2,812	1,346	1,170
Critical (15%)	1,531	1,601	1,318	1,156	1,075	867	1,278	1,011	1,563	1,663	860	705

Alternative 4 H1 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	205	**-2,123**	1,434	2,984	4,251	494	256	**-1,784**	**-2,207**	0	**-1,772**	**-2,439**
20%	409	**-1,137**	**-1,187**	1,198	1,842	522	**-115**	**-1,326**	**-266**	0	**-1,508**	**-2,644**
30%	250	**-732**	**-506**	961	1,096	696	97	**-1,237**	145	**-136**	**-1,126**	**-2,154**
40%	0	**-509**	0	**-336**	426	842	**-226**	**-1,001**	720	**-442**	**-1,170**	**-1,659**
50%	0	**-322**	**-56**	**-223**	169	383	122	**-714**	707	**-762**	**-969**	**-1,036**
60%	0	**-467**	**-250**	0	188	**-93**	**-255**	36	749	**-576**	**-752**	**-508**
70%	**-272**	**-589**	**-612**	**-3**	**-47**	**-162**	**-86**	97	739	**-477**	**-825**	**-268**
80%	**-603**	**-668**	**-634**	**-466**	**-3**	**-313**	**-130**	**-14**	256	**-891**	**-901**	**-407**
90%	**-410**	**-149**	**-152**	**-341**	**-425**	**-91**	**-125**	**-122**	**-355**	**-936**	**-456**	**-184**
Long Term												
Full Simulation Period[a]	15	**-781**	**-59**	742	971	412	46	**-714**	**-233**	**-447**	**-1,018**	**-1,226**
Water Year Types[b]												
Wet (32%)	**-166**	**-1,045**	151	2,336	1,870	893	210	**-1,502**	**-1,531**	**-379**	**-1,398**	**-2,065**
Above Normal (15%)	**-117**	**-897**	**-190**	1,136	1,858	467	**-225**	**-1,127**	260	58	**-571**	**-1,249**
Below Normal (17%)	460	**-455**	130	**-294**	669	405	**-130**	**-495**	1,177	**-879**	**-702**	**-1,001**
Dry (22%)	**-19**	**-835**	**-325**	**-312**	36	8	76	167	237	**-765**	**-1,267**	**-686**
Critical (15%)	70	**-393**	**-206**	**-318**	**-110**	**-72**	123	**-171**	**-261**	**-121**	**-640**	**-459**

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-19-6. American River d/s of Nimbus Dam, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,257	4,282	7,245	10,559	11,669	8,886	6,694	8,326	7,207	5,000	4,280	4,311
20%	1,723	3,062	4,444	6,735	9,108	5,544	5,098	5,048	5,136	5,000	3,823	4,177
30%	1,500	2,657	2,507	4,684	6,367	4,132	4,121	4,228	4,295	4,982	3,090	3,687
40%	1,500	2,398	2,000	3,087	4,750	3,426	3,287	3,591	3,197	4,577	2,920	3,193
50%	1,500	2,009	2,000	2,005	3,504	2,524	2,385	2,875	2,850	4,123	2,719	2,570
60%	1,500	1,925	2,000	1,700	2,413	1,843	2,057	1,750	2,344	3,623	2,502	2,041
70%	1,500	1,714	1,782	1,700	1,565	1,508	1,668	1,445	1,904	3,150	2,263	1,622
80%	1,500	1,534	1,499	1,542	1,445	1,143	1,445	1,339	1,750	2,930	1,752	1,207
90%	1,210	949	952	1,141	1,225	891	925	925	1,429	1,891	1,256	906
Long Term												
Full Simulation Period[a]	1,605	2,706	3,519	4,502	5,218	3,762	3,305	3,587	3,699	3,838	2,707	2,663
Water Year Types[b]												
Wet (32%)	1,723	3,527	6,302	8,806	9,294	6,089	5,300	6,157	6,003	4,108	3,520	4,025
Above Normal (15%)	1,706	3,181	3,137	4,833	6,469	5,454	3,546	3,885	3,346	4,638	2,542	2,764
Below Normal (17%)	1,602	2,067	2,676	2,392	4,360	2,429	3,126	2,930	2,863	4,744	2,495	2,370
Dry (22%)	1,468	2,176	1,741	1,723	1,852	2,191	1,837	1,790	2,506	3,577	2,613	1,856
Critical (15%)	1,461	1,994	1,524	1,474	1,185	939	1,156	1,182	1,824	1,784	1,500	1,164

Alternative 4 H2 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,310	2,502	8,708	13,543	15,928	9,683	6,893	6,542	5,000	5,000	2,872	2,340
20%	2,091	1,925	3,309	8,518	10,993	6,066	4,982	3,666	4,149	5,000	2,615	1,533
30%	1,806	1,925	2,030	5,645	7,463	4,829	4,261	2,846	3,516	5,000	2,184	1,533
40%	1,500	1,925	2,000	2,859	5,176	4,246	3,320	2,467	3,111	4,141	2,030	1,533
50%	1,500	1,708	2,000	2,186	3,693	2,845	2,506	1,888	2,805	3,688	1,750	1,533
60%	1,500	1,614	1,750	1,700	2,764	1,939	1,760	1,750	2,364	3,180	1,750	1,533
70%	1,427	1,371	1,517	1,700	1,750	1,391	1,546	1,369	1,750	2,747	1,549	1,365
80%	967	974	896	1,324	1,329	925	1,187	1,124	1,500	2,332	894	800
90%	800	800	800	800	979	800	800	800	937	1,269	800	729
Long Term												
Full Simulation Period[a]	1,620	2,049	3,568	5,310	6,239	4,193	3,331	2,733	2,890	3,521	1,833	1,487
Water Year Types[b]												
Wet (32%)	1,659	2,719	6,710	11,115	11,167	6,989	5,504	4,598	3,905	3,708	2,238	2,013
Above Normal (15%)	1,650	2,390	3,011	6,096	8,344	5,914	3,295	2,658	2,791	4,627	2,058	1,483
Below Normal (17%)	1,943	1,664	2,794	2,210	5,215	2,841	2,986	1,985	2,941	4,146	2,131	1,500
Dry (22%)	1,371	1,455	1,471	1,571	1,961	2,282	1,874	1,822	2,474	2,998	1,424	1,236
Critical (15%)	1,502	1,595	1,368	1,175	1,069	856	1,250	1,007	1,355	2,067	997	711

Alternative 4 H2 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	53	-1,780	1,463	2,984	4,260	797	199	-1,784	-2,207	0	-1,407	-1,971
20%	368	-1,137	-1,136	1,783	1,885	522	-116	-1,382	-987	0	-1,208	-2,644
30%	306	-732	-477	961	1,095	696	140	-1,382	-779	18	-906	-2,154
40%	0	-473	0	-228	426	819	33	-1,124	-86	-437	-890	-1,659
50%	0	-301	0	181	189	321	120	-987	-45	-435	-969	-1,036
60%	0	-311	-250	0	351	96	-297	0	20	-444	-752	-507
70%	-73	-343	-265	0	185	-116	-122	-76	-154	-403	-714	-258
80%	-533	-560	-603	-218	-116	-218	-258	-214	-250	-598	-859	-407
90%	-410	-149	-152	-341	-246	-91	-125	-125	-492	-622	-456	-177
Long Term												
Full Simulation Period[a]	15	-657	49	808	1,022	431	26	-853	-809	-316	-874	-1,176
Water Year Types[b]												
Wet (32%)	-63	-808	409	2,309	1,874	900	204	-1,558	-2,098	-400	-1,283	-2,012
Above Normal (15%)	-56	-791	-126	1,263	1,875	461	-251	-1,227	-554	-11	-484	-1,282
Below Normal (17%)	341	-403	118	-182	855	412	-140	-945	77	-599	-364	-871
Dry (22%)	-97	-721	-270	-152	109	91	36	32	-32	-579	-1,188	-620
Critical (15%)	41	-400	-156	-300	-116	-83	94	-175	-469	283	-503	-453

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-19-7. American River d/s of Nimbus Dam, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,257	4,282	7,245	10,559	11,669	8,886	6,694	8,326	7,207	5,000	4,280	4,311
20%	1,723	3,062	4,444	6,735	9,108	5,544	5,098	5,048	5,136	5,000	3,823	4,177
30%	1,500	2,657	2,507	4,684	6,367	4,132	4,121	4,228	4,295	4,982	3,090	3,687
40%	1,500	2,398	2,000	3,087	4,750	3,426	3,287	3,591	3,197	4,577	2,920	3,193
50%	1,500	2,009	2,000	2,005	3,504	2,524	2,385	2,875	2,850	4,123	2,719	2,570
60%	1,500	1,925	2,000	1,700	2,413	1,843	2,057	1,750	2,344	3,623	2,502	2,041
70%	1,500	1,714	1,782	1,700	1,565	1,508	1,668	1,445	1,904	3,150	2,263	1,622
80%	1,500	1,534	1,499	1,542	1,445	1,143	1,445	1,339	1,750	2,930	1,752	1,207
90%	1,210	949	952	1,141	1,225	891	925	925	1,429	1,891	1,256	906
Long Term												
Full Simulation Period[a]	1,605	2,706	3,519	4,502	5,218	3,762	3,305	3,587	3,699	3,838	2,707	2,663
Water Year Types[b]												
Wet (32%)	1,723	3,527	6,302	8,806	9,294	6,089	5,300	6,157	6,003	4,108	3,520	4,025
Above Normal (15%)	1,706	3,181	3,137	4,833	6,469	5,454	3,546	3,885	3,346	4,638	2,542	2,764
Below Normal (17%)	1,602	2,067	2,676	2,392	4,360	2,429	3,126	2,930	2,863	4,744	2,495	2,370
Dry (22%)	1,468	2,176	1,741	1,723	1,852	2,191	1,837	1,790	2,506	3,577	2,613	1,856
Critical (15%)	1,461	1,994	1,524	1,474	1,185	939	1,156	1,182	1,824	1,784	1,500	1,164

Alternative 4 H3 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,597	2,831	8,558	13,543	15,920	9,229	6,950	6,542	5,000	5,000	2,509	3,450
20%	2,184	1,925	2,501	8,535	11,228	6,070	4,982	3,722	4,935	5,000	2,280	2,847
30%	1,681	1,925	2,000	5,645	7,468	4,776	4,263	3,043	4,344	4,998	1,977	2,038
40%	1,500	1,817	2,000	2,557	5,186	4,246	3,017	2,561	3,847	4,471	1,753	1,533
50%	1,500	1,683	1,848	1,750	3,290	2,910	2,509	2,295	3,272	3,622	1,750	1,533
60%	1,500	1,425	1,750	1,700	1,914	1,750	1,805	1,798	2,863	3,203	1,750	1,533
70%	1,240	1,133	1,162	1,637	1,560	1,436	1,577	1,551	2,485	2,680	1,482	1,410
80%	870	800	800	1,131	1,445	827	1,209	1,289	1,588	2,305	862	805
90%	800	800	800	800	807	800	800	800	941	939	641	735
Long Term												
Full Simulation Period[a]	1,613	1,965	3,288	5,184	6,155	4,160	3,336	2,886	3,311	3,496	1,685	1,827
Water Year Types[b]												
Wet (32%)	1,491	2,508	6,090	11,040	11,107	6,987	5,517	4,674	4,373	3,706	2,118	3,026
Above Normal (15%)	1,663	2,406	2,927	5,753	8,243	5,811	3,301	2,775	3,597	4,738	1,971	1,819
Below Normal (17%)	2,001	1,593	2,591	2,026	4,934	2,842	2,952	2,381	3,517	4,198	1,757	1,377
Dry (22%)	1,430	1,494	1,340	1,417	1,972	2,194	1,884	2,029	2,815	2,771	1,369	1,228
Critical (15%)	1,650	1,490	1,315	1,258	1,036	872	1,270	1,002	1,226	2,070	855	662

Alternative 4 H3 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	341	**-1,451**	1,313	2,984	4,251	344	256	**-1,784**	**-2,207**	0	**-1,771**	**-861**
20%	461	**-1,137**	**-1,943**	1,800	2,120	526	**-116**	**-1,326**	**-201**	0	**-1,544**	**-1,330**
30%	181	**-732**	**-507**	961	1,100	643	142	**-1,186**	49	17	**-1,113**	**-1,649**
40%	0	**-580**	0	**-529**	436	819	**-271**	**-1,030**	650	**-107**	**-1,167**	**-1,659**
50%	0	**-325**	**-152**	**-255**	**-214**	386	124	**-580**	422	**-501**	**-969**	**-1,036**
60%	0	**-500**	**-250**	0	**-499**	**-93**	**-252**	48	519	**-420**	**-752**	**-507**
70%	**-260**	**-582**	**-620**	**-63**	**-4**	**-71**	**-91**	106	581	**-470**	**-780**	**-212**
80%	**-630**	**-734**	**-699**	**-411**	0	**-316**	**-236**	**-50**	**-162**	**-625**	**-891**	**-402**
90%	**-410**	**-149**	**-152**	**-341**	**-418**	**-91**	**-125**	**-125**	**-487**	**-952**	**-615**	**-170**
Long Term												
Full Simulation Period[a]	8	**-741**	**-231**	682	937	398	30	**-700**	**-388**	**-341**	**-1,022**	**-836**
Water Year Types[b]												
Wet (32%)	**-232**	**-1,019**	**-211**	2,233	1,814	898	217	**-1,483**	**-1,630**	**-402**	**-1,402**	**-998**
Above Normal (15%)	**-43**	**-774**	**-209**	921	1,774	358	**-245**	**-1,110**	252	100	**-571**	**-945**
Below Normal (17%)	399	**-475**	**-85**	**-366**	574	413	**-174**	**-549**	654	**-547**	**-738**	**-994**
Dry (22%)	**-38**	**-682**	**-401**	**-306**	120	3	47	240	310	**-807**	**-1,244**	**-628**
Critical (15%)	189	**-504**	**-209**	**-216**	**-149**	**-68**	115	**-180**	**-598**	286	**-645**	**-503**

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-19-8. American River d/s of Nimbus Dam, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,257	4,282	7,245	10,559	11,669	8,886	6,694	8,326	7,207	5,000	4,280	4,311
20%	1,723	3,062	4,444	6,735	9,108	5,544	5,098	5,048	5,136	5,000	3,823	4,177
30%	1,500	2,657	2,507	4,684	6,367	4,132	4,121	4,228	4,295	4,982	3,090	3,687
40%	1,500	2,398	2,000	3,087	4,750	3,426	3,287	3,591	3,197	4,577	2,920	3,193
50%	1,500	2,009	2,000	2,005	3,504	2,524	2,385	2,875	2,850	4,123	2,719	2,570
60%	1,500	1,925	2,000	1,700	2,413	1,843	2,057	1,750	2,344	3,623	2,502	2,041
70%	1,500	1,714	1,782	1,700	1,565	1,508	1,668	1,445	1,904	3,150	2,263	1,622
80%	1,500	1,534	1,499	1,542	1,445	1,143	1,445	1,339	1,750	2,930	1,752	1,207
90%	1,210	949	952	1,141	1,225	891	925	925	1,429	1,891	1,256	906
Long Term												
Full Simulation Period[a]	1,605	2,706	3,519	4,502	5,218	3,762	3,305	3,587	3,699	3,838	2,707	2,663
Water Year Types[b]												
Wet (32%)	1,723	3,527	6,302	8,806	9,294	6,089	5,300	6,157	6,003	4,108	3,520	4,025
Above Normal (15%)	1,706	3,181	3,137	4,833	6,469	5,454	3,546	3,885	3,346	4,638	2,542	2,764
Below Normal (17%)	1,602	2,067	2,676	2,392	4,360	2,429	3,126	2,930	2,863	4,744	2,495	2,370
Dry (22%)	1,468	2,176	1,741	1,723	1,852	2,191	1,837	1,790	2,506	3,577	2,613	1,856
Critical (15%)	1,461	1,994	1,524	1,474	1,185	939	1,156	1,182	1,824	1,784	1,500	1,164

Alternative 4 H4 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,237	2,696	8,558	13,543	15,927	9,683	6,950	6,542	5,000	5,000	2,967	4,119
20%	1,729	1,925	2,919	8,584	11,228	6,070	4,982	3,666	4,298	5,000	2,638	3,666
30%	1,500	1,921	2,000	5,244	7,467	4,749	4,261	2,807	3,624	5,000	2,380	2,728
40%	1,500	1,761	2,000	2,768	5,186	3,872	3,140	2,395	3,260	4,382	2,034	1,992
50%	1,500	1,683	1,808	1,725	3,423	2,847	2,506	1,888	2,822	3,627	1,750	1,533
60%	1,497	1,468	1,750	1,700	1,990	1,939	1,760	1,741	2,276	3,088	1,750	1,533
70%	1,244	1,221	1,229	1,488	1,480	1,439	1,537	1,383	1,750	2,674	1,728	1,388
80%	800	839	802	1,166	1,367	894	1,138	900	1,426	2,231	984	878
90%	800	800	800	800	823	800	800	800	937	1,186	800	767
Long Term												
Full Simulation Period[a]	1,493	1,977	3,376	5,194	6,175	4,156	3,323	2,732	2,936	3,474	1,926	2,088
Water Year Types[b]												
Wet (32%)	1,453	2,535	6,320	10,995	11,109	6,987	5,516	4,604	3,894	3,795	2,253	3,614
Above Normal (15%)	1,537	2,343	2,904	5,859	8,230	5,750	3,294	2,609	2,865	4,625	2,202	2,032
Below Normal (17%)	1,785	1,591	2,612	2,096	5,065	2,803	2,977	1,960	2,949	4,090	2,222	1,526
Dry (22%)	1,232	1,534	1,398	1,469	1,928	2,253	1,823	1,862	2,553	2,867	1,567	1,313
Critical (15%)	1,589	1,514	1,329	1,161	1,091	865	1,253	1,005	1,490	1,819	1,131	657

Alternative 4 H4 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-20	-1,586	1,313	2,984	4,258	797	256	-1,784	-2,207	0	-1,313	-192
20%	6	-1,137	-1,525	1,849	2,120	526	-116	-1,382	-838	0	-1,185	-511
30%	0	-736	-507	560	1,099	617	140	-1,421	-671	18	-711	-959
40%	0	-637	0	-318	436	446	-147	-1,195	63	-195	-886	-1,201
50%	0	-325	-192	-280	-81	322	120	-988	-28	-497	-969	-1,036
60%	-3	-458	-250	0	-424	96	-297	-9	-68	-535	-752	-507
70%	-256	-494	-553	-213	-85	-69	-131	-62	-154	-476	-534	-234
80%	-700	-695	-697	-376	-78	-249	-307	-438	-324	-700	-768	-329
90%	-410	-149	-152	-341	-402	-91	-125	-125	-492	-705	-456	-139
Long Term												
Full Simulation Period[a]	-112	-730	-143	692	957	395	18	-855	-763	-364	-782	-575
Water Year Types[b]												
Wet (32%)	-270	-992	18	2,188	1,815	898	216	-1,553	-2,109	-314	-1,267	-411
Above Normal (15%)	-169	-837	-233	1,026	1,761	296	-252	-1,276	-481	-13	-340	-732
Below Normal (17%)	183	-476	-64	-296	705	373	-149	-970	86	-654	-273	-845
Dry (22%)	-236	-643	-343	-254	76	61	-14	73	48	-710	-1,045	-543
Critical (15%)	128	-481	-195	-313	-94	-74	98	-177	-334	35	-369	-508

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-19-9. American River d/s of Nimbus Dam, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,257	4,282	7,245	10,559	11,669	8,886	6,694	8,326	7,207	5,000	4,280	4,311
20%	1,723	3,062	4,444	6,735	9,108	5,544	5,098	5,048	5,136	5,000	3,823	4,177
30%	1,500	2,657	2,507	4,684	6,367	4,132	4,121	4,228	4,295	4,982	3,090	3,687
40%	1,500	2,398	2,000	3,087	4,750	3,426	3,287	3,591	3,197	4,577	2,920	3,193
50%	1,500	2,009	2,000	2,005	3,504	2,524	2,385	2,875	2,850	4,123	2,719	2,570
60%	1,500	1,925	2,000	1,700	2,413	1,843	2,057	1,750	2,344	3,623	2,502	2,041
70%	1,500	1,714	1,782	1,700	1,565	1,508	1,668	1,445	1,904	3,150	2,263	1,622
80%	1,500	1,534	1,499	1,542	1,445	1,143	1,445	1,339	1,750	2,930	1,752	1,207
90%	1,210	949	952	1,141	1,225	891	925	925	1,429	1,891	1,256	906
Long Term												
Full Simulation Period[a]	1,605	2,706	3,519	4,502	5,218	3,762	3,305	3,587	3,699	3,838	2,707	2,663
Water Year Types[b]												
Wet (32%)	1,723	3,527	6,302	8,806	9,294	6,089	5,300	6,157	6,003	4,108	3,520	4,025
Above Normal (15%)	1,706	3,181	3,137	4,833	6,469	5,454	3,546	3,885	3,346	4,638	2,542	2,764
Below Normal (17%)	1,602	2,067	2,676	2,392	4,360	2,429	3,126	2,930	2,863	4,744	2,495	2,370
Dry (22%)	1,468	2,176	1,741	1,723	1,852	2,191	1,837	1,790	2,506	3,577	2,613	1,856
Critical (15%)	1,461	1,994	1,524	1,474	1,185	939	1,156	1,182	1,824	1,784	1,500	1,164

Alternative 5 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,562	3,261	8,439	13,543	15,926	9,684	6,893	6,542	5,000	5,000	2,430	4,221
20%	1,971	1,961	2,667	8,532	11,234	6,061	4,984	3,638	4,960	5,000	2,135	3,217
30%	1,517	1,879	2,000	5,645	7,042	4,749	4,292	2,908	4,036	5,000	1,751	2,048
40%	1,500	1,734	1,996	2,476	5,185	4,111	2,999	2,565	3,612	4,862	1,750	1,533
50%	1,500	1,612	1,879	1,700	3,439	2,908	2,524	2,151	3,229	3,930	1,750	1,533
60%	1,417	1,396	1,629	1,700	1,897	1,750	1,858	1,750	2,731	3,454	1,750	1,533
70%	1,021	951	1,147	1,608	1,445	1,425	1,596	1,473	2,314	3,006	1,485	1,438
80%	800	800	800	1,174	1,437	835	1,173	1,214	1,617	2,369	846	803
90%	800	800	800	800	832	800	800	800	862	1,486	655	721
Long Term												
Full Simulation Period[a]	1,545	1,960	3,223	5,167	6,144	4,169	3,351	2,823	3,249	3,668	1,645	1,968
Water Year Types[b]												
Wet (32%)	1,486	2,501	6,009	11,070	11,104	6,992	5,507	4,632	4,223	3,896	2,019	3,336
Above Normal (15%)	1,494	2,324	2,874	5,705	8,242	5,800	3,297	2,687	3,350	4,448	1,993	2,165
Below Normal (17%)	2,037	1,570	2,444	1,997	4,846	2,770	2,957	2,267	3,417	4,237	1,911	1,378
Dry (22%)	1,332	1,496	1,368	1,388	2,026	2,276	1,947	1,943	2,828	3,237	1,284	1,170
Critical (15%)	1,472	1,576	1,227	1,204	993	895	1,300	1,006	1,471	2,380	717	691

Alternative 5 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	306	**-1,021**	1,193	2,984	4,257	799	199	**-1,784**	**-2,207**	0	**-1,850**	**-90**
20%	248	**-1,102**	**-1,777**	1,797	2,126	517	**-114**	**-1,410**	**-176**	0	**-1,688**	**-961**
30%	17	**-778**	**-507**	961	675	617	171	**-1,320**	**-259**	18	**-1,340**	**-1,639**
40%	0	**-664**	**-4**	**-611**	435	685	**-288**	**-1,026**	415	285	**-1,170**	**-1,659**
50%	0	**-396**	**-121**	**-305**	**-65**	383	139	**-725**	379	**-193**	**-969**	**-1,036**
60%	**-83**	**-529**	**-371**	0	**-517**	**-93**	**-199**	**0**	386	**-170**	**-752**	**-507**
70%	**-479**	**-763**	**-635**	**-92**	**-120**	**-83**	**-72**	28	410	**-144**	**-777**	**-184**
80%	**-700**	**-734**	**-699**	**-368**	**-8**	**-308**	**-272**	**-125**	**-133**	**-561**	**-906**	**-404**
90%	**-410**	**-149**	**-152**	**-341**	**-393**	**-91**	**-125**	**-125**	**-567**	**-405**	**-601**	**-185**
Long Term												
Full Simulation Period[a]	**-60**	**-746**	**-296**	665	926	408	46	**-764**	**-450**	**-169**	**-1,062**	**-695**
Water Year Types[b]												
Wet (32%)	**-237**	**-1,026**	**-292**	2,264	1,810	904	207	**-1,524**	**-1,780**	**-213**	**-1,501**	**-688**
Above Normal (15%)	**-212**	**-857**	**-263**	873	1,773	346	**-249**	**-1,198**	4	**-190**	**-549**	**-600**
Below Normal (17%)	435	**-497**	**-231**	**-395**	487	341	**-168**	**-663**	553	**-507**	**-584**	**-992**
Dry (22%)	**-136**	**-681**	**-372**	**-335**	174	85	110	154	322	**-340**	**-1,329**	**-686**
Critical (15%)	11	**-418**	**-297**	**-270**	**-192**	**-44**	144	**-176**	**-353**	596	**-784**	**-474**

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-19-10. American River d/s of Nimbus Dam, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,257	4,282	7,245	10,559	11,669	8,886	6,694	8,326	7,207	5,000	4,280	4,311
20%	1,723	3,062	4,444	6,735	9,108	5,544	5,098	5,048	5,136	5,000	3,823	4,177
30%	1,500	2,657	2,507	4,684	6,367	4,132	4,121	4,228	4,295	4,982	3,090	3,687
40%	1,500	2,398	2,000	3,087	4,750	3,426	3,287	3,591	3,197	4,577	2,920	3,193
50%	1,500	2,009	2,000	2,005	3,504	2,524	2,385	2,875	2,850	4,123	2,719	2,570
60%	1,500	1,925	2,000	1,700	2,413	1,843	2,057	1,750	2,344	3,623	2,502	2,041
70%	1,500	1,714	1,782	1,700	1,565	1,508	1,668	1,445	1,904	3,150	2,263	1,622
80%	1,500	1,534	1,499	1,542	1,445	1,143	1,445	1,339	1,750	2,930	1,752	1,207
90%	1,210	949	952	1,141	1,225	891	925	925	1,429	1,891	1,256	906
Long Term												
Full Simulation Period[a]	1,605	2,706	3,519	4,502	5,218	3,762	3,305	3,587	3,699	3,838	2,707	2,663
Water Year Types[b]												
Wet (32%)	1,723	3,527	6,302	8,806	9,294	6,089	5,300	6,157	6,003	4,108	3,520	4,025
Above Normal (15%)	1,706	3,181	3,137	4,833	6,469	5,454	3,546	3,885	3,346	4,638	2,542	2,764
Below Normal (17%)	1,602	2,067	2,676	2,392	4,360	2,429	3,126	2,930	2,863	4,744	2,495	2,370
Dry (22%)	1,468	2,176	1,741	1,723	1,852	2,191	1,837	1,790	2,506	3,577	2,613	1,856
Critical (15%)	1,461	1,994	1,524	1,474	1,185	939	1,156	1,182	1,824	1,784	1,500	1,164

Alternative 6A,6B,6C (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,314	2,867	8,551	13,543	15,943	9,691	6,893	6,542	5,000	5,000	3,057	2,888
20%	2,032	1,925	2,882	8,539	11,228	6,062	4,928	3,689	4,417	5,000	2,764	2,390
30%	1,857	1,925	2,000	5,649	7,149	4,748	4,289	2,932	3,597	4,577	2,356	2,128
40%	1,581	1,878	2,000	2,896	5,187	4,225	2,833	2,477	3,181	4,064	1,996	1,743
50%	1,500	1,683	1,944	1,750	3,427	2,919	2,318	1,869	2,702	3,598	1,838	1,533
60%	1,500	1,683	1,750	1,700	2,184	1,750	1,750	1,750	1,911	3,143	1,750	1,532
70%	1,497	1,509	1,376	1,495	1,522	1,439	1,454	1,406	1,644	2,798	1,612	1,323
80%	1,112	1,152	910	1,217	1,343	800	1,005	1,054	1,166	2,524	1,088	800
90%	800	800	800	800	1,011	800	800	800	800	2,013	800	800
Long Term												
Full Simulation Period[a]	1,694	2,061	3,413	5,296	6,180	4,166	3,264	2,783	2,868	3,542	1,942	1,705
Water Year Types[b]												
Wet (32%)	1,750	2,718	6,397	11,187	11,105	6,997	5,516	4,682	3,994	3,991	2,401	2,549
Above Normal (15%)	1,682	2,505	3,025	6,127	8,250	5,818	3,316	2,662	3,050	4,447	1,997	1,883
Below Normal (17%)	1,755	1,599	2,533	2,028	5,106	2,811	2,894	2,155	2,801	3,762	2,337	1,595
Dry (22%)	1,447	1,492	1,503	1,579	1,897	2,314	1,645	1,785	2,414	2,940	1,587	1,189
Critical (15%)	1,886	1,588	1,225	1,088	1,117	739	1,190	1,022	1,003	2,312	961	605

Alternative 6A,6B,6C (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	57	**-1,415**	1,306	2,984	4,274	805	199	**-1,784**	**-2,207**	0	**-1,223**	**-1,423**
20%	309	**-1,137**	**-1,562**	1,804	2,120	518	**-170**	**-1,359**	**-719**	0	**-1,060**	**-1,787**
30%	357	**-732**	**-507**	965	782	616	167	**-1,296**	**-698**	**-404**	**-734**	**-1,559**
40%	81	**-520**	0	**-191**	437	799	**-455**	**-1,113**	**-16**	**-513**	**-924**	**-1,449**
50%	0	**-325**	**-56**	**-255**	**-77**	394	**-67**	**-1,006**	**-148**	**-525**	**-881**	**-1,036**
60%	0	**-242**	**-250**	0	**-229**	**-93**	**-307**	**0**	**-433**	**-481**	**-752**	**-509**
70%	**-3**	**-205**	**-406**	**-205**	**-43**	**-69**	**-213**	**-39**	**-259**	**-352**	**-651**	**-299**
80%	**-388**	**-382**	**-589**	**-325**	**-102**	**-343**	**-440**	**-285**	**-584**	**-406**	**-665**	**-407**
90%	**-410**	**-149**	**-152**	**-341**	**-214**	**-91**	**-125**	**-125**	**-629**	122	**-456**	**-106**
Long Term												
Full Simulation Period[a]	89	**-645**	**-106**	794	962	404	**-42**	**-803**	**-831**	**-296**	**-765**	**-958**
Water Year Types[b]												
Wet (32%)	27	**-809**	96	2,381	1,812	909	216	**-1,475**	**-2,009**	**-118**	**-1,119**	**-1,476**
Above Normal (15%)	**-24**	**-676**	**-112**	1,294	1,781	365	**-230**	**-1,222**	**-296**	**-191**	**-545**	**-881**
Below Normal (17%)	153	**-468**	**-143**	**-364**	746	381	**-232**	**-775**	**-62**	**-983**	**-157**	**-775**
Dry (22%)	**-21**	**-684**	**-237**	**-144**	45	123	**-193**	**-4**	**-92**	**-637**	**-1,025**	**-667**
Critical (15%)	426	**-406**	**-300**	**-386**	**-68**	**-200**	35	**-160**	**-821**	528	**-539**	**-559**

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-19-11. American River d/s of Nimbus Dam, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,257	4,282	7,245	10,559	11,669	8,886	6,694	8,326	7,207	5,000	4,280	4,311
20%	1,723	3,062	4,444	6,735	9,108	5,544	5,098	5,048	5,136	5,000	3,823	4,177
30%	1,500	2,657	2,507	4,684	6,367	4,132	4,121	4,228	4,295	4,982	3,090	3,687
40%	1,500	2,398	2,000	3,087	4,750	3,426	3,287	3,591	3,197	4,577	2,920	3,193
50%	1,500	2,009	2,000	2,005	3,504	2,524	2,385	2,875	2,850	4,123	2,719	2,570
60%	1,500	1,925	2,000	1,700	2,413	1,843	2,057	1,750	2,344	3,623	2,502	2,041
70%	1,500	1,714	1,782	1,700	1,565	1,508	1,668	1,445	1,904	3,150	2,263	1,622
80%	1,500	1,534	1,499	1,542	1,445	1,143	1,445	1,339	1,750	2,930	1,752	1,207
90%	1,210	949	952	1,141	1,225	891	925	925	1,429	1,891	1,256	906
Long Term												
Full Simulation Period[a]	1,605	2,706	3,519	4,502	5,218	3,762	3,305	3,587	3,699	3,838	2,707	2,663
Water Year Types[b]												
Wet (32%)	1,723	3,527	6,302	8,806	9,294	6,089	5,300	6,157	6,003	4,108	3,520	4,025
Above Normal (15%)	1,706	3,181	3,137	4,833	6,469	5,454	3,546	3,885	3,346	4,638	2,542	2,764
Below Normal (17%)	1,602	2,067	2,676	2,392	4,360	2,429	3,126	2,930	2,863	4,744	2,495	2,370
Dry (22%)	1,468	2,176	1,741	1,723	1,852	2,191	1,837	1,790	2,506	3,577	2,613	1,856
Critical (15%)	1,461	1,994	1,524	1,474	1,185	939	1,156	1,182	1,824	1,784	1,500	1,164

Alternative 7 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,248	3,115	8,577	13,543	15,940	9,175	6,918	6,542	5,000	5,000	2,853	3,645
20%	1,857	2,025	2,612	8,537	11,228	6,072	4,937	3,729	4,793	5,000	2,475	2,938
30%	1,574	1,923	2,000	5,655	7,469	4,750	4,171	2,963	4,170	5,000	2,299	2,185
40%	1,500	1,746	1,990	2,589	5,186	4,262	2,928	2,480	3,713	4,449	1,906	1,565
50%	1,500	1,683	1,750	1,750	3,343	2,920	2,489	1,941	3,251	3,921	1,750	1,533
60%	1,500	1,523	1,736	1,700	1,920	1,859	1,750	1,750	2,729	3,287	1,750	1,533
70%	1,206	1,206	1,110	1,488	1,465	1,375	1,443	1,408	2,009	2,846	1,475	1,450
80%	1,024	1,005	800	1,025	1,264	800	996	1,025	1,444	2,572	890	800
90%	800	800	800	800	800	800	800	800	901	2,002	800	758
Long Term												
Full Simulation Period[a]	1,543	2,032	3,277	5,205	6,147	4,150	3,252	2,799	3,199	3,682	1,801	1,890
Water Year Types[b]												
Wet (32%)	1,663	2,608	6,187	11,133	11,102	7,000	5,518	4,660	4,342	3,704	2,124	3,100
Above Normal (15%)	1,524	2,485	2,951	5,826	8,251	5,857	3,310	2,713	3,543	4,623	1,900	1,870
Below Normal (17%)	1,572	1,686	2,404	2,060	5,039	2,802	2,861	2,122	3,374	4,433	2,277	1,397
Dry (22%)	1,340	1,506	1,359	1,444	1,922	2,187	1,641	1,798	2,558	3,352	1,663	1,330
Critical (15%)	1,573	1,524	1,194	1,049	939	787	1,158	1,147	1,139	2,311	655	706

Alternative 7 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-9	-1,167	1,332	2,984	4,271	290	225	-1,784	-2,207	0	-1,427	-666
20%	134	-1,037	-1,832	1,802	2,120	528	-161	-1,319	-343	0	-1,348	-1,239
30%	74	-734	-507	971	1,102	618	50	-1,266	-125	18	-791	-1,502
40%	0	-652	-10	-498	436	835	-359	-1,111	516	-128	-1,014	-1,627
50%	0	-325	-250	-255	-161	396	104	-935	400	-202	-969	-1,036
60%	0	-402	-264	0	-494	16	-307	0	385	-336	-752	-507
70%	-294	-508	-672	-213	-100	-133	-225	-37	106	-304	-788	-172
80%	-476	-529	-699	-517	-181	-343	-449	-313	-306	-358	-863	-407
90%	-410	-149	-152	-341	-425	-91	-125	-125	-528	111	-456	-148
Long Term												
Full Simulation Period[a]	-62	-674	-242	703	930	388	-53	-788	-499	-156	-906	-773
Water Year Types[b]												
Wet (32%)	-59	-919	-115	2,326	1,809	911	218	-1,497	-1,661	-405	-1,396	-924
Above Normal (15%)	-182	-695	-186	993	1,782	404	-235	-1,172	197	-15	-641	-894
Below Normal (17%)	-30	-381	-271	-332	679	373	-265	-808	510	-311	-218	-974
Dry (22%)	-128	-670	-382	-279	70	-5	-196	8	52	-225	-949	-526
Critical (15%)	113	-471	-330	-425	-246	-152	3	-35	-685	527	-845	-459

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-19-12. American River d/s of Nimbus Dam, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,257	4,282	7,245	10,559	11,669	8,886	6,694	8,326	7,207	5,000	4,280	4,311
20%	1,723	3,062	4,444	6,735	9,108	5,544	5,098	5,048	5,136	5,000	3,823	4,177
30%	1,500	2,657	2,507	4,684	6,367	4,132	4,121	4,228	4,295	4,982	3,090	3,687
40%	1,500	2,398	2,000	3,087	4,750	3,426	3,287	3,591	3,197	4,577	2,920	3,193
50%	1,500	2,009	2,000	2,005	3,504	2,524	2,385	2,875	2,850	4,123	2,719	2,570
60%	1,500	1,925	2,000	1,700	2,413	1,843	2,057	1,750	2,344	3,623	2,502	2,041
70%	1,500	1,714	1,782	1,700	1,565	1,508	1,668	1,445	1,904	3,150	2,263	1,622
80%	1,500	1,534	1,499	1,542	1,445	1,143	1,445	1,339	1,750	2,930	1,752	1,207
90%	1,210	949	952	1,141	1,225	891	925	925	1,429	1,891	1,256	906
Long Term												
Full Simulation Period[a]	1,605	2,706	3,519	4,502	5,218	3,762	3,305	3,587	3,699	3,838	2,707	2,663
Water Year Types[b]												
Wet (32%)	1,723	3,527	6,302	8,806	9,294	6,089	5,300	6,157	6,003	4,108	3,520	4,025
Above Normal (15%)	1,706	3,181	3,137	4,833	6,469	5,454	3,546	3,885	3,346	4,638	2,542	2,764
Below Normal (17%)	1,602	2,067	2,676	2,392	4,360	2,429	3,126	2,930	2,863	4,744	2,495	2,370
Dry (22%)	1,468	2,176	1,741	1,723	1,852	2,191	1,837	1,790	2,506	3,577	2,613	1,856
Critical (15%)	1,461	1,994	1,524	1,474	1,185	939	1,156	1,182	1,824	1,784	1,500	1,164

Alternative 8 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,539	2,697	8,613	13,543	15,927	9,177	6,951	6,542	5,000	4,868	3,246	4,079
20%	1,800	1,925	3,250	8,538	11,309	6,072	5,000	5,000	4,563	3,959	2,697	3,490
30%	1,500	1,925	2,000	5,649	7,469	4,931	4,455	3,921	3,782	3,319	1,950	2,782
40%	1,500	1,762	2,000	2,923	5,324	4,046	3,797	3,648	3,368	2,815	1,750	1,690
50%	1,500	1,683	1,833	1,750	3,770	2,759	3,169	3,195	2,865	2,502	1,750	1,533
60%	1,481	1,378	1,532	1,700	2,459	1,750	2,400	2,590	2,515	2,275	1,750	1,519
70%	1,246	995	981	1,488	1,512	1,264	1,750	1,756	2,242	2,108	1,601	1,312
80%	810	800	800	850	1,264	800	1,264	1,600	1,701	1,467	911	800
90%	800	800	800	800	800	800	800	894	720	710	710	617
Long Term												
Full Simulation Period[a]	1,576	1,897	3,354	5,285	6,156	4,064	3,597	3,453	3,084	2,633	1,841	2,085
Water Year Types[b]												
Wet (32%)	1,598	2,560	6,407	11,121	11,074	6,996	5,597	4,863	3,987	2,927	2,007	3,559
Above Normal (15%)	1,953	2,175	2,947	6,235	8,304	5,452	3,240	2,744	3,339	2,928	2,042	2,649
Below Normal (17%)	1,610	1,427	2,461	2,259	5,087	2,801	3,384	3,385	2,910	3,237	2,460	1,383
Dry (22%)	1,233	1,494	1,399	1,429	1,950	2,058	2,366	2,888	2,788	2,604	1,576	1,150
Critical (15%)	1,629	1,336	1,117	1,003	907	807	1,717	2,031	1,522	1,041	955	548

Alternative 8 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	283	-1,585	1,368	2,984	4,258	292	257	-1,784	-2,207	-132	-1,034	-232
20%	77	-1,137	-1,195	1,803	2,200	528	-98	-48	-573	-1,041	-1,126	-687
30%	0	-732	-507	965	1,101	799	334	-307	-513	-1,662	-1,141	-905
40%	0	-636	0	-164	574	620	510	58	172	-1,763	-1,170	-1,503
50%	0	-325	-167	-255	265	235	784	319	15	-1,621	-969	-1,036
60%	-19	-547	-468	0	46	-93	344	840	171	-1,348	-752	-522
70%	-254	-719	-801	-213	-52	-243	82	311	338	-1,042	-662	-310
80%	-690	-734	-699	-692	-181	-343	-181	262	-49	-1,463	-841	-407
90%	-410	-149	-152	-341	-425	-91	-125	-31	-709	-1,181	-546	-289
Long Term												
Full Simulation Period[a]	-29	-809	-165	783	938	302	292	-134	-615	-1,205	-866	-578
Water Year Types[b]												
Wet (32%)	-124	-967	105	2,315	1,781	907	296	-1,294	-2,016	-1,182	-1,513	-465
Above Normal (15%)	247	-1,005	-190	1,402	1,835	-2	-306	-1,141	-6	-1,710	-500	-115
Below Normal (17%)	8	-640	-215	-133	727	372	258	455	46	-1,507	-34	-988
Dry (22%)	-235	-682	-341	-294	98	-133	529	1,098	283	-973	-1,037	-706
Critical (15%)	168	-658	-407	-471	-278	-132	562	850	-302	-744	-545	-616

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-19-13. American River d/s of Nimbus Dam, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,257	4,282	7,245	10,559	11,669	8,886	6,694	8,326	7,207	5,000	4,280	4,311
20%	1,723	3,062	4,444	6,735	9,108	5,544	5,098	5,048	5,136	5,000	3,823	4,177
30%	1,500	2,657	2,507	4,684	6,367	4,132	4,121	4,228	4,295	4,982	3,090	3,687
40%	1,500	2,398	2,000	3,087	4,750	3,426	3,287	3,591	3,197	4,577	2,920	3,193
50%	1,500	2,009	2,000	2,005	3,504	2,524	2,385	2,875	2,850	4,123	2,719	2,570
60%	1,500	1,925	2,000	1,700	2,413	1,843	2,057	1,750	2,344	3,623	2,502	2,041
70%	1,500	1,714	1,782	1,700	1,565	1,508	1,668	1,445	1,904	3,150	2,263	1,622
80%	1,500	1,534	1,499	1,542	1,445	1,143	1,445	1,339	1,750	2,930	1,752	1,207
90%	1,210	949	952	1,141	1,225	891	925	925	1,429	1,891	1,256	906
Long Term												
Full Simulation Period[a]	1,605	2,706	3,519	4,502	5,218	3,762	3,305	3,587	3,699	3,838	2,707	2,663
Water Year Types[b]												
Wet (32%)	1,723	3,527	6,302	8,806	9,294	6,089	5,300	6,157	6,003	4,108	3,520	4,025
Above Normal (15%)	1,706	3,181	3,137	4,833	6,469	5,454	3,546	3,885	3,346	4,638	2,542	2,764
Below Normal (17%)	1,602	2,067	2,676	2,392	4,360	2,429	3,126	2,930	2,863	4,744	2,495	2,370
Dry (22%)	1,468	2,176	1,741	1,723	1,852	2,191	1,837	1,790	2,506	3,577	2,613	1,856
Critical (15%)	1,461	1,994	1,524	1,474	1,185	939	1,156	1,182	1,824	1,784	1,500	1,164

Alternative 9 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,163	3,514	8,502	13,547	15,921	9,703	6,907	6,542	5,000	5,000	2,713	4,063
20%	1,812	2,534	2,892	8,537	11,309	6,071	4,948	3,411	3,890	4,704	2,434	3,664
30%	1,603	1,925	2,000	5,645	6,978	4,749	4,328	2,699	3,385	4,247	2,215	2,809
40%	1,500	1,767	2,000	2,466	5,186	3,881	3,274	2,491	3,034	3,795	1,976	1,844
50%	1,500	1,683	1,864	1,733	3,549	2,865	2,689	2,087	2,720	3,058	1,756	1,621
60%	1,500	1,552	1,750	1,700	1,965	1,966	1,810	1,959	2,390	2,907	1,750	1,532
70%	1,298	1,318	1,419	1,516	1,445	1,424	1,598	1,750	2,026	2,459	1,634	1,419
80%	1,004	1,070	971	1,272	1,361	827	1,197	1,427	1,537	2,177	908	840
90%	800	800	800	800	926	800	800	1,180	877	1,537	800	758
Long Term												
Full Simulation Period[a]	1,518	2,168	3,328	5,222	6,167	4,170	3,393	2,886	2,884	3,256	1,818	2,107
Water Year Types[b]												
Wet (32%)	1,639	2,819	6,160	11,134	11,107	6,998	5,517	4,637	3,852	3,690	2,109	3,573
Above Normal (15%)	1,446	2,428	2,930	5,819	8,263	5,782	3,312	2,588	3,104	4,497	1,955	2,112
Below Normal (17%)	1,519	1,733	2,523	2,139	4,983	2,798	3,068	2,364	2,921	3,571	2,292	1,788
Dry (22%)	1,395	1,687	1,496	1,433	1,983	2,236	2,092	2,130	2,521	2,408	1,489	1,205
Critical (15%)	1,510	1,725	1,276	1,096	1,021	929	1,206	1,130	1,066	1,975	991	651

Alternative 9 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-94	-768	1,257	2,988	4,252	817	213	-1,784	-2,207	0	-1,567	-248
20%	89	-528	-1,552	1,802	2,200	527	-150	-1,637	-1,246	-296	-1,389	-513
30%	103	-732	-507	961	610	617	206	-1,529	-910	-734	-876	-878
40%	0	-631	0	-621	436	455	-13	-1,100	-163	-783	-944	-1,349
50%	0	-325	-136	-273	45	340	304	-788	-131	-1,066	-963	-949
60%	0	-373	-250	0	-449	123	-247	209	46	-716	-752	-509
70%	-202	-396	-363	-184	-120	-84	-70	305	122	-691	-629	-203
80%	-496	-464	-528	-270	-84	-316	-248	88	-213	-754	-844	-367
90%	-410	-149	-152	-341	-299	-91	-125	255	-552	-354	-456	-148
Long Term												
Full Simulation Period[a]	-87	-539	-191	720	949	408	88	-701	-815	-582	-889	-556
Water Year Types[b]												
Wet (32%)	-84	-708	-141	2,327	1,813	910	217	-1,519	-2,151	-418	-1,411	-451
Above Normal (15%)	-260	-753	-206	986	1,794	328	-234	-1,296	-242	-141	-587	-652
Below Normal (17%)	-83	-334	-153	-253	624	369	-58	-566	57	-1,173	-203	-583
Dry (22%)	-73	-490	-245	-290	131	45	254	340	16	-1,169	-1,124	-652
Critical (15%)	50	-269	-248	-378	-164	-10	51	-51	-758	190	-509	-513

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-19-14. American River d/s of Nimbus Dam, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,799	2,943	8,472	13,543	15,920	9,685	6,898	6,542	5,000	5,000	3,007	4,089
20%	1,948	2,541	2,621	8,534	11,151	6,067	4,987	3,495	3,811	5,000	2,586	3,527
30%	1,710	1,925	2,000	5,362	6,966	4,749	4,203	2,624	3,266	5,000	2,323	2,588
40%	1,509	1,683	2,000	2,559	5,186	3,902	3,070	2,357	3,015	4,657	1,927	1,917
50%	1,500	1,593	1,786	1,750	3,198	2,908	2,609	1,759	2,673	4,072	1,839	1,548
60%	1,479	1,413	1,620	1,700	2,020	2,092	1,760	1,611	2,347	3,559	1,750	1,533
70%	1,181	1,162	1,214	1,488	1,445	1,466	1,513	1,358	1,761	2,923	1,540	1,420
80%	902	809	800	1,152	1,264	824	1,164	988	1,513	2,331	939	802
90%	800	800	800	800	902	800	800	800	959	1,349	800	721
Long Term												
Full Simulation Period[a]	1,592	2,043	3,297	5,194	6,112	4,187	3,334	2,676	2,825	3,670	1,874	2,068
Water Year Types[b]												
Wet (32%)	1,634	2,612	6,171	11,036	11,102	6,992	5,508	4,592	3,694	3,860	2,132	3,622
Above Normal (15%)	1,732	2,554	2,933	5,805	8,153	5,790	3,298	2,521	3,022	4,927	1,944	2,044
Below Normal (17%)	1,767	1,716	2,527	2,073	4,961	2,794	2,970	1,969	2,883	4,328	2,324	1,605
Dry (22%)	1,258	1,424	1,351	1,506	1,844	2,314	1,888	1,686	2,596	3,143	1,620	1,182
Critical (15%)	1,655	1,608	1,251	1,095	1,007	938	1,255	992	1,025	2,022	1,100	594

Alternative 1A,1B,1C (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,651	2,401	8,619	13,543	15,947	9,192	6,987	6,542	5,000	5,000	2,507	1,727
20%	2,716	1,925	3,463	8,519	11,230	6,066	4,998	3,832	4,874	4,946	2,226	1,533
30%	2,241	1,925	2,000	5,645	7,583	4,822	4,302	3,059	4,340	4,044	1,964	1,533
40%	1,778	1,919	2,000	2,571	5,321	4,010	3,114	2,645	3,936	3,527	1,750	1,533
50%	1,500	1,712	1,869	1,927	3,739	2,868	2,535	2,308	3,546	3,291	1,750	1,533
60%	1,500	1,593	1,750	1,700	2,357	1,750	1,873	1,944	3,112	2,745	1,750	1,518
70%	1,339	1,208	1,136	1,668	1,445	1,350	1,685	1,750	2,535	2,515	1,417	1,264
80%	874	923	803	1,193	1,294	835	1,400	1,452	1,737	2,019	800	800
90%	800	800	800	803	800	800	800	800	1,135	892	577	557
Long Term												
Full Simulation Period[a]	1,920	1,957	3,413	5,207	6,210	4,123	3,407	2,973	3,400	3,191	1,657	1,393
Water Year Types[b]												
Wet (32%)	1,823	2,578	6,435	11,011	11,122	6,987	5,519	4,718	4,568	3,530	2,159	1,906
Above Normal (15%)	1,976	2,120	2,966	5,803	8,361	5,870	3,337	2,944	3,857	4,253	1,810	1,500
Below Normal (17%)	2,177	1,647	2,704	2,149	5,174	2,688	3,156	2,517	3,768	3,660	1,633	1,363
Dry (22%)	1,717	1,394	1,349	1,535	1,923	2,113	2,012	2,134	2,552	2,494	1,328	1,141
Critical (15%)	2,080	1,655	1,239	1,109	1,055	862	1,289	1,009	1,258	1,895	940	588

Alternative 1A,1B,1C (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	852	-543	147	0	27	-493	89	0	0	0	-500	-2,362
20%	768	-616	842	-16	79	-1	11	336	1,063	-54	-360	-1,994
30%	531	0	0	283	617	73	100	435	1,074	-956	-359	-1,055
40%	269	236	0	12	136	108	44	289	921	-1,130	-177	-384
50%	0	119	83	177	541	-40	-74	549	873	-782	-89	-14
60%	21	180	130	0	337	-342	113	333	765	-815	0	-16
70%	157	46	-78	180	0	-116	172	392	774	-408	-124	-156
80%	-28	115	3	41	29	12	236	464	223	-313	-139	-2
90%	0	0	0	3	-102	0	0	0	176	-457	-223	-164
Long Term												
Full Simulation Period[a]	329	-86	116	13	97	-63	73	296	575	-479	-217	-675
Water Year Types[b]												
Wet (32%)	188	-34	264	-25	20	-5	11	127	874	-330	27	-1,716
Above Normal (15%)	244	-434	33	-2	208	79	38	423	834	-674	-135	-543
Below Normal (17%)	410	-70	177	76	213	-106	187	548	885	-668	-692	-242
Dry (22%)	459	-31	-3	29	79	-202	124	448	-44	-650	-292	-41
Critical (15%)	426	48	-12	14	48	-76	34	17	234	-127	-160	-6

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-19-15. American River d/s of Nimbus Dam, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,799	2,943	8,472	13,543	15,920	9,685	6,898	6,542	5,000	5,000	3,007	4,089
20%	1,948	2,541	2,621	8,534	11,151	6,067	4,987	3,495	3,811	5,000	2,586	3,527
30%	1,710	1,925	2,000	5,362	6,966	4,749	4,203	2,624	3,266	5,000	2,323	2,588
40%	1,509	1,683	2,000	2,559	5,186	3,902	3,070	2,357	3,015	4,657	1,927	1,917
50%	1,500	1,593	1,786	1,750	3,198	2,908	2,609	1,759	2,673	4,072	1,839	1,548
60%	1,479	1,413	1,620	1,700	2,020	2,092	1,760	1,611	2,347	3,559	1,750	1,533
70%	1,181	1,162	1,214	1,488	1,445	1,466	1,513	1,358	1,761	2,923	1,540	1,420
80%	902	809	800	1,152	1,264	824	1,164	988	1,513	2,331	939	802
90%	800	800	800	800	902	800	800	800	959	1,349	800	721
Long Term												
Full Simulation Period[a]	1,592	2,043	3,297	5,194	6,112	4,187	3,334	2,676	2,825	3,670	1,874	2,068
Water Year Types[b]												
Wet (32%)	1,634	2,612	6,171	11,036	11,102	6,992	5,508	4,592	3,694	3,860	2,132	3,622
Above Normal (15%)	1,732	2,554	2,933	5,805	8,153	5,790	3,298	2,521	3,022	4,927	1,944	2,044
Below Normal (17%)	1,767	1,716	2,527	2,073	4,961	2,794	2,970	1,969	2,883	4,328	2,324	1,605
Dry (22%)	1,258	1,424	1,351	1,506	1,844	2,314	1,888	1,686	2,596	3,143	1,620	1,182
Critical (15%)	1,655	1,608	1,251	1,095	1,007	938	1,255	992	1,025	2,022	1,100	594

Alternative 2A,2B,2C (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,498	3,097	8,552	13,543	15,925	9,193	6,981	6,542	5,000	5,000	2,418	3,455
20%	2,240	1,925	2,621	8,535	11,228	6,070	4,981	4,070	4,967	5,000	2,167	2,853
30%	1,549	1,917	2,038	5,645	7,467	4,812	4,271	3,061	4,620	4,716	1,947	2,053
40%	1,500	1,804	2,000	2,638	5,273	4,245	2,994	2,623	3,863	3,850	1,750	1,533
50%	1,500	1,683	1,882	1,750	3,324	2,908	2,384	2,338	3,430	3,336	1,750	1,533
60%	1,500	1,396	1,750	1,700	1,916	1,750	1,760	1,759	2,900	3,027	1,750	1,532
70%	1,286	1,133	1,169	1,596	1,541	1,439	1,632	1,652	2,313	2,634	1,450	1,331
80%	813	800	800	1,146	1,445	832	1,217	1,320	1,578	2,349	848	800
90%	800	800	800	800	803	800	800	800	945	1,496	800	718
Long Term												
Full Simulation Period[a]	1,588	1,984	3,319	5,187	6,165	4,157	3,326	2,948	3,363	3,412	1,659	1,795
Water Year Types[b]												
Wet (32%)	1,476	2,495	6,083	11,011	11,106	6,989	5,515	4,695	4,520	3,575	2,162	2,966
Above Normal (15%)	1,630	2,439	2,922	5,811	8,247	5,848	3,300	3,004	3,651	4,590	1,768	1,863
Below Normal (17%)	1,910	1,700	2,694	2,034	4,992	2,797	2,993	2,418	3,551	3,995	1,799	1,377
Dry (22%)	1,422	1,501	1,348	1,442	1,969	2,191	1,841	2,098	2,750	2,733	1,320	1,177
Critical (15%)	1,660	1,479	1,409	1,237	1,036	868	1,226	1,002	1,267	2,221	802	608

Alternative 2A,2B,2C (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-300	153	80	0	5	-493	83	0	0	0	-589	-634
20%	292	-616	-1	0	77	3	-6	575	1,156	0	-419	-674
30%	-161	-8	38	283	502	62	69	437	1,354	-284	-375	-535
40%	-9	120	0	79	87	343	-76	266	848	-806	-177	-384
50%	0	90	96	0	126	0	-225	579	757	-737	-89	-14
60%	21	-16	130	0	-104	-342	0	148	553	-533	0	-2
70%	105	-29	-46	109	96	-27	119	294	552	-289	-90	-89
80%	-89	-9	0	-6	181	8	53	332	65	18	-91	-2
90%	0	0	0	0	-99	0	0	0	-14	147	0	-3
Long Term												
Full Simulation Period[a]	-4	-59	22	-7	52	-29	-8	272	537	-258	-215	-272
Water Year Types[b]												
Wet (32%)	-158	-117	-88	-25	4	-3	7	103	826	-286	30	-656
Above Normal (15%)	-102	-115	-11	6	95	57	2	483	629	-337	-176	-181
Below Normal (17%)	143	-16	167	-39	31	3	24	449	668	-334	-526	-228
Dry (22%)	164	77	-3	-64	126	-124	-47	412	154	-411	-300	-5
Critical (15%)	5	-129	158	142	30	-70	-29	10	243	199	-298	14

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-19-16. American River d/s of Nimbus Dam, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,799	2,943	8,472	13,543	15,920	9,685	6,898	6,542	5,000	5,000	3,007	4,089
20%	1,948	2,541	2,621	8,534	11,151	6,067	4,987	3,495	3,811	5,000	2,586	3,527
30%	1,710	1,925	2,000	5,362	6,966	4,749	4,203	2,624	3,266	5,000	2,323	2,588
40%	1,509	1,683	2,000	2,559	5,186	3,902	3,070	2,357	3,015	4,657	1,927	1,917
50%	1,500	1,593	1,786	1,750	3,198	2,908	2,609	1,759	2,673	4,072	1,839	1,548
60%	1,479	1,413	1,620	1,700	2,020	2,092	1,760	1,611	2,347	3,559	1,750	1,533
70%	1,181	1,162	1,214	1,488	1,445	1,466	1,513	1,358	1,761	2,923	1,540	1,420
80%	902	809	800	1,152	1,264	824	1,164	988	1,513	2,331	939	802
90%	800	800	800	800	902	800	800	800	959	1,349	800	721
Long Term												
Full Simulation Period[a]	1,592	2,043	3,297	5,194	6,112	4,187	3,334	2,676	2,825	3,670	1,874	2,068
Water Year Types[b]												
Wet (32%)	1,634	2,612	6,171	11,036	11,102	6,992	5,508	4,592	3,694	3,860	2,132	3,622
Above Normal (15%)	1,732	2,554	2,933	5,805	8,153	5,790	3,298	2,521	3,022	4,927	1,944	2,044
Below Normal (17%)	1,767	1,716	2,527	2,073	4,961	2,794	2,970	1,969	2,883	4,328	2,324	1,605
Dry (22%)	1,258	1,424	1,351	1,506	1,844	2,314	1,888	1,686	2,596	3,143	1,620	1,182
Critical (15%)	1,655	1,608	1,251	1,095	1,007	938	1,255	992	1,025	2,022	1,100	594

Alternative 3 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,662	2,405	8,676	13,543	15,898	9,454	6,898	6,542	5,000	5,000	2,457	1,791
20%	2,703	1,925	3,463	8,523	11,230	6,066	4,982	3,967	4,812	5,000	2,254	1,533
30%	1,809	1,925	2,000	5,645	7,220	4,762	4,217	3,041	4,234	4,478	1,925	1,533
40%	1,603	1,908	2,000	2,964	5,179	4,188	3,157	2,612	3,779	3,545	1,750	1,533
50%	1,500	1,683	1,904	1,880	3,739	2,908	2,698	2,423	3,386	3,232	1,750	1,533
60%	1,499	1,578	1,750	1,700	2,020	1,750	1,904	2,009	3,008	2,899	1,745	1,519
70%	1,211	1,211	1,194	1,700	1,445	1,349	1,657	1,750	2,627	2,572	1,490	1,210
80%	857	892	800	1,438	1,285	835	1,316	1,445	1,580	2,262	800	800
90%	800	800	800	806	803	800	800	800	1,121	1,414	488	557
Long Term												
Full Simulation Period[a]	1,857	1,979	3,426	5,254	6,102	4,154	3,380	2,988	3,352	3,310	1,638	1,407
Water Year Types[b]												
Wet (32%)	1,877	2,574	6,435	10,985	11,092	6,987	5,519	4,727	4,465	3,576	2,165	1,929
Above Normal (15%)	1,935	2,168	2,962	5,812	8,327	5,887	3,322	2,924	3,815	4,348	1,798	1,519
Below Normal (17%)	2,030	1,646	2,739	2,358	4,727	2,804	3,047	2,584	3,770	3,738	1,620	1,369
Dry (22%)	1,624	1,423	1,376	1,532	1,858	2,151	2,016	2,156	2,596	2,712	1,266	1,134
Critical (15%)	1,883	1,724	1,248	1,244	1,033	860	1,237	1,005	1,122	2,093	915	620

Alternative 3 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	863	-538	204	0	-22	-232	0	0	0	0	-550	-2,297
20%	755	-616	841	-11	79	-1	-5	472	1,000	0	-331	-1,994
30%	99	0	0	283	254	13	15	417	967	-522	-398	-1,055
40%	94	224	0	405	-7	286	87	255	764	-1,112	-177	-384
50%	0	90	118	130	541	0	89	664	713	-840	-89	-14
60%	20	165	130	0	0	-342	144	398	660	-660	-5	-15
70%	29	49	-20	213	0	-117	145	392	866	-350	-51	-210
80%	-45	83	0	286	21	12	152	457	66	-69	-139	-2
90%	0	0	0	6	-99	0	0	0	162	64	-312	-164
Long Term												
Full Simulation Period[a]	265	-64	129	61	-11	-33	46	312	526	-360	-236	-661
Water Year Types[b]												
Wet (32%)	242	-38	264	-52	-10	-5	11	135	771	-285	33	-1,694
Above Normal (15%)	203	-386	29	7	175	96	24	404	793	-579	-147	-525
Below Normal (17%)	263	-70	212	285	-234	10	78	615	888	-591	-704	-235
Dry (22%)	366	-2	25	26	15	-164	128	470	0	-431	-354	-48
Critical (15%)	229	116	-4	149	27	-77	-18	14	98	71	-185	26

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-19-17. American River d/s of Nimbus Dam, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,799	2,943	8,472	13,543	15,920	9,685	6,898	6,542	5,000	5,000	3,007	4,089
20%	1,948	2,541	2,621	8,534	11,151	6,067	4,987	3,495	3,811	5,000	2,586	3,527
30%	1,710	1,925	2,000	5,362	6,966	4,749	4,203	2,624	3,266	5,000	2,323	2,588
40%	1,509	1,683	2,000	2,559	5,186	3,902	3,070	2,357	3,015	4,657	1,927	1,917
50%	1,500	1,593	1,786	1,750	3,198	2,908	2,609	1,759	2,673	4,072	1,839	1,548
60%	1,479	1,413	1,620	1,700	2,020	2,092	1,760	1,611	2,347	3,559	1,750	1,533
70%	1,181	1,162	1,214	1,488	1,445	1,466	1,513	1,358	1,761	2,923	1,540	1,420
80%	902	809	800	1,152	1,264	824	1,164	988	1,513	2,331	939	802
90%	800	800	800	800	902	800	800	800	959	1,349	800	721
Long Term												
Full Simulation Period[a]	1,592	2,043	3,297	5,194	6,112	4,187	3,334	2,676	2,825	3,670	1,874	2,068
Water Year Types[b]												
Wet (32%)	1,634	2,612	6,171	11,036	11,102	6,992	5,508	4,592	3,694	3,860	2,132	3,622
Above Normal (15%)	1,732	2,554	2,933	5,805	8,153	5,790	3,298	2,521	3,022	4,927	1,944	2,044
Below Normal (17%)	1,767	1,716	2,527	2,073	4,961	2,794	2,970	1,969	2,883	4,328	2,324	1,605
Dry (22%)	1,258	1,424	1,351	1,506	1,844	2,314	1,888	1,686	2,596	3,143	1,620	1,182
Critical (15%)	1,655	1,608	1,251	1,095	1,007	938	1,255	992	1,025	2,022	1,100	594

Alternative 4 H1 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,461	2,159	8,679	13,543	15,920	9,380	6,950	6,542	5,000	5,000	2,508	1,872
20%	2,132	1,925	3,257	7,932	10,950	6,066	4,982	3,722	4,870	5,000	2,315	1,533
30%	1,750	1,925	2,001	5,645	7,463	4,829	4,218	2,991	4,440	4,845	1,964	1,533
40%	1,500	1,889	2,000	2,751	5,176	4,268	3,062	2,590	3,917	4,135	1,750	1,533
50%	1,500	1,686	1,944	1,783	3,673	2,908	2,507	2,161	3,557	3,361	1,750	1,533
60%	1,500	1,458	1,750	1,700	2,602	1,750	1,802	1,786	3,093	3,047	1,750	1,533
70%	1,228	1,125	1,170	1,697	1,518	1,346	1,582	1,542	2,643	2,673	1,437	1,354
80%	897	866	864	1,076	1,442	830	1,315	1,325	2,006	2,040	852	800
90%	800	800	800	800	800	800	800	803	1,074	955	800	722
Long Term												
Full Simulation Period[a]	1,620	1,925	3,460	5,244	6,189	4,174	3,351	2,873	3,466	3,390	1,689	1,437
Water Year Types[b]												
Wet (32%)	1,557	2,482	6,452	11,143	11,163	6,982	5,510	4,654	4,472	3,729	2,122	1,960
Above Normal (15%)	1,589	2,284	2,947	5,969	8,327	5,920	3,321	2,758	3,605	4,696	1,971	1,515
Below Normal (17%)	2,062	1,612	2,806	2,098	5,029	2,834	2,995	2,435	4,040	3,866	1,793	1,370
Dry (22%)	1,449	1,341	1,416	1,411	1,888	2,200	1,913	1,957	2,743	2,812	1,346	1,170
Critical (15%)	1,531	1,601	1,318	1,156	1,075	867	1,278	1,011	1,563	1,663	860	705

Alternative 4 H1 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-338	-784	207	0	0	-305	52	0	0	0	-499	-2,216
20%	184	-616	636	-602	-201	-1	-5	227	1,058	0	-270	-1,994
30%	40	0	1	283	498	79	15	367	1,174	-155	-358	-1,055
40%	-9	205	0	191	-9	366	-9	233	902	-521	-177	-384
50%	0	93	157	33	475	0	-102	402	884	-711	-89	-14
60%	21	45	130	0	582	-342	41	175	746	-512	0	0
70%	46	-37	-44	209	73	-120	70	185	882	-250	-103	-66
80%	-5	57	64	-76	178	6	151	337	492	-292	-87	-2
90%	0	0	0	0	-102	0	0	3	114	-394	0	1
Long Term												
Full Simulation Period[a]	29	-118	163	50	76	-13	17	196	641	-280	-185	-631
Water Year Types[b]												
Wet (32%)	-77	-130	281	106	61	-10	1	62	779	-131	-10	-1,663
Above Normal (15%)	-142	-270	14	164	174	130	22	237	583	-231	27	-529
Below Normal (17%)	296	-104	279	25	68	40	26	466	1,158	-462	-531	-235
Dry (22%)	191	-83	65	-95	45	-115	25	271	147	-331	-274	-12
Critical (15%)	-124	-6	67	61	69	-71	23	19	538	-359	-240	112

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-19-18. American River d/s of Nimbus Dam, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,799	2,943	8,472	13,543	15,920	9,685	6,898	6,542	5,000	5,000	3,007	4,089
20%	1,948	2,541	2,621	8,534	11,151	6,067	4,987	3,495	3,811	5,000	2,586	3,527
30%	1,710	1,925	2,000	5,362	6,966	4,749	4,203	2,624	3,266	5,000	2,323	2,588
40%	1,509	1,683	2,000	2,559	5,186	3,902	3,070	2,357	3,015	4,657	1,927	1,917
50%	1,500	1,593	1,786	1,750	3,198	2,908	2,609	1,759	2,673	4,072	1,839	1,548
60%	1,479	1,413	1,620	1,700	2,020	2,092	1,760	1,611	2,347	3,559	1,750	1,533
70%	1,181	1,162	1,214	1,488	1,445	1,466	1,513	1,358	1,761	2,923	1,540	1,420
80%	902	809	800	1,152	1,264	824	1,164	988	1,513	2,331	939	802
90%	800	800	800	800	902	800	800	800	959	1,349	800	721
Long Term												
Full Simulation Period[a]	1,592	2,043	3,297	5,194	6,112	4,187	3,334	2,676	2,825	3,670	1,874	2,068
Water Year Types[b]												
Wet (32%)	1,634	2,612	6,171	11,036	11,102	6,992	5,508	4,592	3,694	3,860	2,132	3,622
Above Normal (15%)	1,732	2,554	2,933	5,805	8,153	5,790	3,298	2,521	3,022	4,927	1,944	2,044
Below Normal (17%)	1,767	1,716	2,527	2,073	4,961	2,794	2,970	1,969	2,883	4,328	2,324	1,605
Dry (22%)	1,258	1,424	1,351	1,506	1,844	2,314	1,888	1,686	2,596	3,143	1,620	1,182
Critical (15%)	1,655	1,608	1,251	1,095	1,007	938	1,255	992	1,025	2,022	1,100	594

Alternative 4 H2 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,310	2,502	8,708	13,543	15,928	9,683	6,893	6,542	5,000	5,000	2,872	2,340
20%	2,091	1,925	3,309	8,518	10,993	6,066	4,982	3,666	4,149	5,000	2,615	1,533
30%	1,806	1,925	2,030	5,645	7,463	4,829	4,261	2,846	3,516	5,000	2,184	1,533
40%	1,500	1,925	2,000	2,859	5,176	4,246	3,320	2,467	3,111	4,141	2,030	1,533
50%	1,500	1,708	2,000	2,186	3,693	2,845	2,506	1,888	2,805	3,688	1,750	1,533
60%	1,500	1,614	1,750	1,700	2,764	1,939	1,760	1,750	2,364	3,180	1,750	1,533
70%	1,427	1,371	1,517	1,700	1,750	1,391	1,546	1,369	1,750	2,747	1,549	1,365
80%	967	974	896	1,324	1,329	925	1,187	1,124	1,500	2,332	894	800
90%	800	800	800	800	979	800	800	800	937	1,269	800	729
Long Term												
Full Simulation Period[a]	1,620	2,049	3,568	5,310	6,239	4,193	3,331	2,733	2,890	3,521	1,833	1,487
Water Year Types[b]												
Wet (32%)	1,659	2,719	6,710	11,115	11,167	6,989	5,504	4,598	3,905	3,708	2,238	2,013
Above Normal (15%)	1,650	2,390	3,011	6,096	8,344	5,914	3,295	2,658	2,791	4,627	2,058	1,483
Below Normal (17%)	1,943	1,664	2,794	2,210	5,215	2,841	2,986	1,985	2,941	4,146	2,131	1,500
Dry (22%)	1,371	1,455	1,471	1,571	1,961	2,282	1,874	1,822	2,474	2,998	1,424	1,236
Critical (15%)	1,502	1,595	1,368	1,175	1,069	856	1,250	1,007	1,355	2,067	997	711

Alternative 4 H2 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-489**	**-441**	236	0	9	**-2**	**-6**	0	0	0	**-135**	**-1,748**
20%	143	**-616**	687	**-16**	**-158**	**-1**	**-6**	171	337	0	29	**-1,994**
30%	96	0	30	283	497	79	59	222	250	0	**-138**	**-1,055**
40%	**-9**	242	0	299	**-10**	344	250	110	96	**-516**	103	**-384**
50%	0	114	214	436	495	**-63**	**-103**	129	132	**-384**	**-89**	**-14**
60%	21	202	130	0	744	**-153**	0	139	16	**-380**	0	0
70%	246	209	303	213	305	**-75**	34	12	**-11**	**-176**	9	**-55**
80%	65	165	96	171	65	101	23	136	**-13**	1	**-45**	**-2**
90%	0	0	0	0	77	0	0	0	**-22**	**-80**	0	8
Long Term												
Full Simulation Period[a]	29	6	271	117	127	6	**-3**	57	65	**-149**	**-41**	**-581**
Water Year Types[b]												
Wet (32%)	25	107	539	79	65	**-3**	**-4**	6	211	**-152**	106	**-1,610**
Above Normal (15%)	**-82**	**-164**	78	291	192	124	**-3**	137	**-231**	**-300**	114	**-561**
Below Normal (17%)	176	**-52**	267	137	254	47	16	16	58	**-183**	**-193**	**-105**
Dry (22%)	113	31	119	65	117	**-32**	**-15**	136	**-122**	**-145**	**-195**	55
Critical (15%)	**-153**	**-13**	116	80	63	**-81**	**-6**	15	330	45	**-103**	118

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-19-19. American River d/s of Nimbus Dam, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,799	2,943	8,472	13,543	15,920	9,685	6,898	6,542	5,000	5,000	3,007	4,089
20%	1,948	2,541	2,621	8,534	11,151	6,067	4,987	3,495	3,811	5,000	2,586	3,527
30%	1,710	1,925	2,000	5,362	6,966	4,749	4,203	2,624	3,266	5,000	2,323	2,588
40%	1,509	1,683	2,000	2,559	5,186	3,902	3,070	2,357	3,015	4,657	1,927	1,917
50%	1,500	1,593	1,786	1,750	3,198	2,908	2,609	1,759	2,673	4,072	1,839	1,548
60%	1,479	1,413	1,620	1,700	2,020	2,092	1,760	1,611	2,347	3,559	1,750	1,533
70%	1,181	1,162	1,214	1,488	1,445	1,466	1,513	1,358	1,761	2,923	1,540	1,420
80%	902	809	800	1,152	1,264	824	1,164	988	1,513	2,331	939	802
90%	800	800	800	800	902	800	800	800	959	1,349	800	721
Long Term												
Full Simulation Period[a]	1,592	2,043	3,297	5,194	6,112	4,187	3,334	2,676	2,825	3,670	1,874	2,068
Water Year Types[b]												
Wet (32%)	1,634	2,612	6,171	11,036	11,102	6,992	5,508	4,592	3,694	3,860	2,132	3,622
Above Normal (15%)	1,732	2,554	2,933	5,805	8,153	5,790	3,298	2,521	3,022	4,927	1,944	2,044
Below Normal (17%)	1,767	1,716	2,527	2,073	4,961	2,794	2,970	1,969	2,883	4,328	2,324	1,605
Dry (22%)	1,258	1,424	1,351	1,506	1,844	2,314	1,888	1,686	2,596	3,143	1,620	1,182
Critical (15%)	1,655	1,608	1,251	1,095	1,007	938	1,255	992	1,025	2,022	1,100	594

Alternative 4 H3 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,597	2,831	8,558	13,543	15,920	9,229	6,950	6,542	5,000	5,000	2,509	3,450
20%	2,184	1,925	2,501	8,535	11,228	6,070	4,982	3,722	4,935	5,000	2,280	2,847
30%	1,681	1,925	2,000	5,645	7,468	4,776	4,263	3,043	4,344	4,998	1,977	2,038
40%	1,500	1,817	2,000	2,557	5,186	4,246	3,017	2,561	3,847	4,471	1,753	1,533
50%	1,500	1,683	1,848	1,750	3,290	2,910	2,509	2,295	3,272	3,622	1,750	1,533
60%	1,500	1,425	1,750	1,700	1,914	1,750	1,805	1,798	2,863	3,203	1,750	1,533
70%	1,240	1,133	1,162	1,637	1,560	1,436	1,577	1,551	2,485	2,680	1,482	1,410
80%	870	800	800	1,131	1,445	827	1,209	1,289	1,588	2,305	862	805
90%	800	800	800	800	807	800	800	800	941	939	641	735
Long Term												
Full Simulation Period[a]	1,613	1,965	3,288	5,184	6,155	4,160	3,336	2,886	3,311	3,496	1,685	1,827
Water Year Types[b]												
Wet (32%)	1,491	2,508	6,090	11,040	11,107	6,987	5,517	4,674	4,373	3,706	2,118	3,026
Above Normal (15%)	1,663	2,406	2,927	5,753	8,243	5,811	3,301	2,775	3,597	4,738	1,971	1,819
Below Normal (17%)	2,001	1,593	2,591	2,026	4,934	2,842	2,952	2,381	3,517	4,198	1,757	1,377
Dry (22%)	1,430	1,494	1,340	1,417	1,972	2,194	1,884	2,029	2,815	2,771	1,369	1,228
Critical (15%)	1,650	1,490	1,315	1,258	1,036	872	1,270	1,002	1,226	2,070	855	662

Alternative 4 H3 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-201	-112	86	0	0	-456	52	0	0	0	-498	-639
20%	236	-616	-120	0	77	3	-5	227	1,124	0	-306	-680
30%	-29	0	0	283	502	26	61	419	1,078	-2	-345	-550
40%	-9	134	0	-2	0	344	-54	204	832	-186	-174	-384
50%	0	90	62	0	92	3	-100	536	599	-451	-89	-14
60%	21	12	130	0	-106	-342	45	188	515	-356	0	0
70%	58	-29	-52	150	115	-30	65	193	724	-242	-58	-10
80%	-32	-9	0	-21	181	4	45	301	75	-26	-77	3
90%	0	0	0	0	-95	0	0	0	-18	-410	-159	15
Long Term												
Full Simulation Period[a]	22	-77	-8	-10	43	-27	1	210	486	-174	-189	-241
Water Year Types[b]												
Wet (32%)	-143	-104	-81	3	5	-5	9	82	680	-154	-14	-596
Above Normal (15%)	-68	-148	-5	-51	90	21	2	254	575	-189	26	-225
Below Normal (17%)	235	-124	64	-47	-27	48	-18	412	635	-131	-568	-228
Dry (22%)	172	70	-11	-89	128	-121	-4	343	219	-373	-251	46
Critical (15%)	-5	-118	64	163	30	-66	15	10	201	48	-245	68

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-19-20. American River d/s of Nimbus Dam, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,799	2,943	8,472	13,543	15,920	9,685	6,898	6,542	5,000	5,000	3,007	4,089
20%	1,948	2,541	2,621	8,534	11,151	6,067	4,987	3,495	3,811	5,000	2,586	3,527
30%	1,710	1,925	2,000	5,362	6,966	4,749	4,203	2,624	3,266	5,000	2,323	2,588
40%	1,509	1,683	2,000	2,559	5,186	3,902	3,070	2,357	3,015	4,657	1,927	1,917
50%	1,500	1,593	1,786	1,750	3,198	2,908	2,609	1,759	2,673	4,072	1,839	1,548
60%	1,479	1,413	1,620	1,700	2,020	2,092	1,760	1,611	2,347	3,559	1,750	1,533
70%	1,181	1,162	1,214	1,488	1,445	1,466	1,513	1,358	1,761	2,923	1,540	1,420
80%	902	809	800	1,152	1,264	824	1,164	988	1,513	2,331	939	802
90%	800	800	800	800	902	800	800	800	959	1,349	800	721
Long Term												
Full Simulation Period[a]	1,592	2,043	3,297	5,194	6,112	4,187	3,334	2,676	2,825	3,670	1,874	2,068
Water Year Types[b]												
Wet (32%)	1,634	2,612	6,171	11,036	11,102	6,992	5,508	4,592	3,694	3,860	2,132	3,622
Above Normal (15%)	1,732	2,554	2,933	5,805	8,153	5,790	3,298	2,521	3,022	4,927	1,944	2,044
Below Normal (17%)	1,767	1,716	2,527	2,073	4,961	2,794	2,970	1,969	2,883	4,328	2,324	1,605
Dry (22%)	1,258	1,424	1,351	1,506	1,844	2,314	1,888	1,686	2,596	3,143	1,620	1,182
Critical (15%)	1,655	1,608	1,251	1,095	1,007	938	1,255	992	1,025	2,022	1,100	594

Alternative 4 H4 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,237	2,696	8,558	13,543	15,927	9,683	6,950	6,542	5,000	5,000	2,967	4,119
20%	1,729	1,925	2,919	8,584	11,228	6,070	4,982	3,666	4,298	5,000	2,638	3,666
30%	1,500	1,921	2,000	5,244	7,467	4,749	4,261	2,807	3,624	5,000	2,380	2,728
40%	1,500	1,761	2,000	2,768	5,186	3,872	3,140	2,395	3,260	4,382	2,034	1,992
50%	1,500	1,683	1,808	1,725	3,423	2,847	2,506	1,888	2,822	3,627	1,750	1,533
60%	1,497	1,468	1,750	1,700	1,990	1,939	1,760	1,741	2,276	3,088	1,750	1,533
70%	1,244	1,221	1,229	1,488	1,480	1,439	1,537	1,383	1,750	2,674	1,728	1,388
80%	800	839	802	1,166	1,367	894	1,138	900	1,426	2,231	984	878
90%	800	800	800	800	823	800	800	800	937	1,186	800	767
Long Term												
Full Simulation Period[a]	1,493	1,977	3,376	5,194	6,175	4,156	3,323	2,732	2,936	3,474	1,926	2,088
Water Year Types[b]												
Wet (32%)	1,453	2,535	6,320	10,995	11,109	6,987	5,516	4,604	3,894	3,795	2,253	3,614
Above Normal (15%)	1,537	2,343	2,904	5,859	8,230	5,750	3,294	2,609	2,865	4,625	2,202	2,032
Below Normal (17%)	1,785	1,591	2,612	2,096	5,065	2,803	2,977	1,960	2,949	4,090	2,222	1,526
Dry (22%)	1,232	1,534	1,398	1,469	1,928	2,253	1,823	1,862	2,553	2,867	1,567	1,313
Critical (15%)	1,589	1,514	1,329	1,161	1,091	865	1,253	1,005	1,490	1,819	1,131	657

Alternative 4 H4 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-562	-248	86	0	7	-2	52	0	0	0	-40	31
20%	-219	-616	298	50	77	3	-5	171	487	0	53	139
30%	-210	-4	0	-118	501	0	59	183	358	0	57	140
40%	-9	77	0	209	0	-30	70	39	245	-275	107	75
50%	0	90	22	-25	225	-61	-103	128	149	-446	-89	-14
60%	18	55	130	0	-30	-153	0	131	-72	-471	0	0
70%	62	59	15	0	35	-27	24	25	-11	-249	188	-32
80%	-102	30	2	14	102	70	-26	-88	-88	-101	45	76
90%	0	0	0	0	-79	0	0	0	-22	-164	0	46
Long Term												
Full Simulation Period[a]	-98	-66	79	0	62	-30	-11	56	111	-196	52	20
Water Year Types[b]												
Wet (32%)	-181	-77	149	-42	7	-5	8	12	201	-66	121	-9
Above Normal (15%)	-195	-211	-29	54	78	-41	-5	88	-158	-302	258	-11
Below Normal (17%)	19	-125	85	23	104	8	7	-9	66	-238	-102	-79
Dry (22%)	-27	109	46	-37	84	-62	-65	176	-43	-276	-52	131
Critical (15%)	-66	-94	78	67	85	-73	-2	13	466	-203	31	63

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-19-21. American River d/s of Nimbus Dam, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,799	2,943	8,472	13,543	15,920	9,685	6,898	6,542	5,000	5,000	3,007	4,089
20%	1,948	2,541	2,621	8,534	11,151	6,067	4,987	3,495	3,811	5,000	2,586	3,527
30%	1,710	1,925	2,000	5,362	6,966	4,749	4,203	2,624	3,266	5,000	2,323	2,588
40%	1,509	1,683	2,000	2,559	5,186	3,902	3,070	2,357	3,015	4,657	1,927	1,917
50%	1,500	1,593	1,786	1,750	3,198	2,908	2,609	1,759	2,673	4,072	1,839	1,548
60%	1,479	1,413	1,620	1,700	2,020	2,092	1,760	1,611	2,347	3,559	1,750	1,533
70%	1,181	1,162	1,214	1,488	1,445	1,466	1,513	1,358	1,761	2,923	1,540	1,420
80%	902	809	800	1,152	1,264	824	1,164	988	1,513	2,331	939	802
90%	800	800	800	800	902	800	800	800	959	1,349	800	721
Long Term												
Full Simulation Period[a]	1,592	2,043	3,297	5,194	6,112	4,187	3,334	2,676	2,825	3,670	1,874	2,068
Water Year Types[b]												
Wet (32%)	1,634	2,612	6,171	11,036	11,102	6,992	5,508	4,592	3,694	3,860	2,132	3,622
Above Normal (15%)	1,732	2,554	2,933	5,805	8,153	5,790	3,298	2,521	3,022	4,927	1,944	2,044
Below Normal (17%)	1,767	1,716	2,527	2,073	4,961	2,794	2,970	1,969	2,883	4,328	2,324	1,605
Dry (22%)	1,258	1,424	1,351	1,506	1,844	2,314	1,888	1,686	2,596	3,143	1,620	1,182
Critical (15%)	1,655	1,608	1,251	1,095	1,007	938	1,255	992	1,025	2,022	1,100	594

Alternative 5 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,562	3,261	8,439	13,543	15,926	9,684	6,893	6,542	5,000	5,000	2,430	4,221
20%	1,971	1,961	2,667	8,532	11,234	6,061	4,984	3,638	4,960	5,000	2,135	3,217
30%	1,517	1,879	2,000	5,645	7,042	4,749	4,292	2,908	4,036	5,000	1,751	2,048
40%	1,500	1,734	1,996	2,476	5,185	4,111	2,999	2,565	3,612	4,862	1,750	1,533
50%	1,500	1,612	1,879	1,700	3,439	2,908	2,524	2,151	3,229	3,930	1,750	1,533
60%	1,417	1,396	1,629	1,700	1,897	1,750	1,858	1,750	2,731	3,454	1,750	1,533
70%	1,021	951	1,147	1,608	1,445	1,425	1,596	1,473	2,314	3,006	1,485	1,438
80%	800	800	800	1,174	1,437	835	1,173	1,214	1,617	2,369	846	803
90%	800	800	800	800	832	800	800	800	862	1,486	655	721
Long Term												
Full Simulation Period[a]	1,545	1,960	3,223	5,167	6,144	4,169	3,351	2,823	3,249	3,668	1,645	1,968
Water Year Types[b]												
Wet (32%)	1,486	2,501	6,009	11,070	11,104	6,992	5,507	4,632	4,223	3,896	2,019	3,336
Above Normal (15%)	1,494	2,324	2,874	5,705	8,242	5,800	3,297	2,687	3,350	4,448	1,993	2,165
Below Normal (17%)	2,037	1,570	2,444	1,997	4,846	2,770	2,957	2,267	3,417	4,237	1,911	1,378
Dry (22%)	1,332	1,496	1,368	1,388	2,026	2,276	1,947	1,943	2,828	3,237	1,284	1,170
Critical (15%)	1,472	1,576	1,227	1,204	993	895	1,300	1,006	1,471	2,380	717	691

Alternative 5 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-237	318	-33	0	6	-1	-6	0	0	0	-577	132
20%	23	-581	46	-2	84	-6	-3	143	1,149	0	-451	-310
30%	-193	-46	0	283	76	0	89	284	770	0	-572	-540
40%	-9	51	-4	-84	-1	209	-71	208	597	206	-177	-384
50%	0	19	93	-50	241	0	-85	392	556	-142	-89	-14
60%	-62	-17	10	0	-123	-342	98	139	383	-106	0	0
70%	-160	-211	-67	121	0	-42	83	115	553	83	-55	18
80%	-102	-9	0	21	172	12	9	226	104	38	-93	1
90%	0	0	0	0	-70	0	0	0	-97	137	-145	0
Long Term												
Full Simulation Period[a]	-46	-83	-74	-27	32	-17	17	147	423	-1	-229	-100
Water Year Types[b]												
Wet (32%)	-148	-112	-162	34	2	0	-2	40	530	35	-113	-286
Above Normal (15%)	-238	-230	-59	-100	90	9	-2	166	328	-479	48	121
Below Normal (17%)	271	-146	-82	-76	-115	-24	-12	298	534	-91	-413	-227
Dry (22%)	74	72	17	-118	182	-38	59	257	232	94	-336	-11
Critical (15%)	-183	-32	-24	109	-13	-43	44	14	447	358	-383	97

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-19-22. American River d/s of Nimbus Dam, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,799	2,943	8,472	13,543	15,920	9,685	6,898	6,542	5,000	5,000	3,007	4,089
20%	1,948	2,541	2,621	8,534	11,151	6,067	4,987	3,495	3,811	5,000	2,586	3,527
30%	1,710	1,925	2,000	5,362	6,966	4,749	4,203	2,624	3,266	5,000	2,323	2,588
40%	1,509	1,683	2,000	2,559	5,186	3,902	3,070	2,357	3,015	4,657	1,927	1,917
50%	1,500	1,593	1,786	1,750	3,198	2,908	2,609	1,759	2,673	4,072	1,839	1,548
60%	1,479	1,413	1,620	1,700	2,020	2,092	1,760	1,611	2,347	3,559	1,750	1,533
70%	1,181	1,162	1,214	1,488	1,445	1,466	1,513	1,358	1,761	2,923	1,540	1,420
80%	902	809	800	1,152	1,264	824	1,164	988	1,513	2,331	939	802
90%	800	800	800	800	902	800	800	800	959	1,349	800	721
Long Term												
Full Simulation Period[a]	1,592	2,043	3,297	5,194	6,112	4,187	3,334	2,676	2,825	3,670	1,874	2,068
Water Year Types[b]												
Wet (32%)	1,634	2,612	6,171	11,036	11,102	6,992	5,508	4,592	3,694	3,860	2,132	3,622
Above Normal (15%)	1,732	2,554	2,933	5,805	8,153	5,790	3,298	2,521	3,022	4,927	1,944	2,044
Below Normal (17%)	1,767	1,716	2,527	2,073	4,961	2,794	2,970	1,969	2,883	4,328	2,324	1,605
Dry (22%)	1,258	1,424	1,351	1,506	1,844	2,314	1,888	1,686	2,596	3,143	1,620	1,182
Critical (15%)	1,655	1,608	1,251	1,095	1,007	938	1,255	992	1,025	2,022	1,100	594

Alternative 6A,6B,6C (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,314	2,867	8,551	13,543	15,943	9,691	6,893	6,542	5,000	5,000	3,057	2,888
20%	2,032	1,925	2,882	8,539	11,228	6,062	4,928	3,689	4,417	5,000	2,764	2,390
30%	1,857	1,925	2,000	5,649	7,149	4,748	4,289	2,932	3,597	4,577	2,356	2,128
40%	1,581	1,878	2,000	2,896	5,187	4,225	2,833	2,477	3,181	4,064	1,996	1,743
50%	1,500	1,683	1,944	1,750	3,427	2,919	2,318	1,869	2,702	3,598	1,838	1,533
60%	1,500	1,683	1,750	1,700	2,184	1,750	1,750	1,750	1,911	3,143	1,750	1,532
70%	1,497	1,509	1,376	1,495	1,522	1,439	1,454	1,406	1,644	2,798	1,612	1,323
80%	1,112	1,152	910	1,217	1,343	800	1,005	1,054	1,166	2,524	1,088	800
90%	800	800	800	800	1,011	800	800	800	800	2,013	800	800
Long Term												
Full Simulation Period[a]	1,694	2,061	3,413	5,296	6,180	4,166	3,264	2,783	2,868	3,542	1,942	1,705
Water Year Types[b]												
Wet (32%)	1,750	2,718	6,397	11,187	11,105	6,997	5,516	4,682	3,994	3,991	2,401	2,549
Above Normal (15%)	1,682	2,505	3,025	6,127	8,250	5,818	3,316	2,662	3,050	4,447	1,997	1,883
Below Normal (17%)	1,755	1,599	2,533	2,028	5,106	2,811	2,894	2,155	2,801	3,762	2,337	1,595
Dry (22%)	1,447	1,492	1,503	1,579	1,897	2,314	1,645	1,785	2,414	2,940	1,587	1,189
Critical (15%)	1,886	1,588	1,225	1,088	1,117	739	1,190	1,022	1,003	2,312	961	605

Alternative 6A,6B,6C (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-485	-76	79	0	23	5	-5	0	0	0	50	-1,200
20%	84	-616	261	5	77	-6	-59	194	605	0	178	-1,137
30%	146	0	0	287	183	-1	86	309	331	-423	34	-461
40%	72	195	0	337	1	323	-238	121	166	-593	69	-174
50%	0	90	158	0	229	11	-291	110	29	-475	-1	-14
60%	21	271	130	0	164	-342	-10	139	-436	-417	0	-2
70%	315	347	162	8	77	-27	-58	48	-117	-125	72	-97
80%	210	343	110	65	79	-24	-160	66	-347	193	149	-2
90%	0	0	0	0	109	0	0	0	-159	664	0	79
Long Term												
Full Simulation Period[a]	103	18	116	102	68	-21	-71	107	42	-128	68	-363
Water Year Types[b]												
Wet (32%)	115	106	227	151	3	5	8	90	300	130	269	-1,074
Above Normal (15%)	-49	-49	92	322	97	28	17	142	27	-480	53	-161
Below Normal (17%)	-12	-117	6	-45	145	16	-76	186	-81	-566	13	-10
Dry (22%)	188	68	152	73	53	0	-244	99	-182	-204	-32	7
Critical (15%)	232	-20	-27	-7	110	-199	-65	30	-21	290	-139	11

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-19-23. American River d/s of Nimbus Dam, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,799	2,943	8,472	13,543	15,920	9,685	6,898	6,542	5,000	5,000	3,007	4,089
20%	1,948	2,541	2,621	8,534	11,151	6,067	4,987	3,495	3,811	5,000	2,586	3,527
30%	1,710	1,925	2,000	5,362	6,966	4,749	4,203	2,624	3,266	5,000	2,323	2,588
40%	1,509	1,683	2,000	2,559	5,186	3,902	3,070	2,357	3,015	4,657	1,927	1,917
50%	1,500	1,593	1,786	1,750	3,198	2,908	2,609	1,759	2,673	4,072	1,839	1,548
60%	1,479	1,413	1,620	1,700	2,020	2,092	1,760	1,611	2,347	3,559	1,750	1,533
70%	1,181	1,162	1,214	1,488	1,445	1,466	1,513	1,358	1,761	2,923	1,540	1,420
80%	902	809	800	1,152	1,264	824	1,164	988	1,513	2,331	939	802
90%	800	800	800	800	902	800	800	800	959	1,349	800	721
Long Term												
Full Simulation Period[a]	1,592	2,043	3,297	5,194	6,112	4,187	3,334	2,676	2,825	3,670	1,874	2,068
Water Year Types[b]												
Wet (32%)	1,634	2,612	6,171	11,036	11,102	6,992	5,508	4,592	3,694	3,860	2,132	3,622
Above Normal (15%)	1,732	2,554	2,933	5,805	8,153	5,790	3,298	2,521	3,022	4,927	1,944	2,044
Below Normal (17%)	1,767	1,716	2,527	2,073	4,961	2,794	2,970	1,969	2,883	4,328	2,324	1,605
Dry (22%)	1,258	1,424	1,351	1,506	1,844	2,314	1,888	1,686	2,596	3,143	1,620	1,182
Critical (15%)	1,655	1,608	1,251	1,095	1,007	938	1,255	992	1,025	2,022	1,100	594

Alternative 7 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,248	3,115	8,577	13,543	15,940	9,175	6,918	6,542	5,000	5,000	2,853	3,645
20%	1,857	2,025	2,612	8,537	11,228	6,072	4,937	3,729	4,793	5,000	2,475	2,938
30%	1,574	1,923	2,000	5,655	7,469	4,750	4,171	2,963	4,170	5,000	2,299	2,185
40%	1,500	1,746	1,990	2,589	5,186	4,262	2,928	2,480	3,713	4,449	1,906	1,565
50%	1,500	1,683	1,750	1,750	3,343	2,920	2,489	1,941	3,251	3,921	1,750	1,533
60%	1,500	1,523	1,736	1,700	1,920	1,859	1,750	1,750	2,729	3,287	1,750	1,533
70%	1,206	1,206	1,110	1,488	1,465	1,375	1,443	1,408	2,009	2,846	1,475	1,450
80%	1,024	1,005	800	1,025	1,264	800	996	1,025	1,444	2,572	890	800
90%	800	800	800	800	800	800	800	800	901	2,002	800	758
Long Term												
Full Simulation Period[a]	1,543	2,032	3,277	5,205	6,147	4,150	3,252	2,799	3,199	3,682	1,801	1,890
Water Year Types[b]												
Wet (32%)	1,663	2,608	6,187	11,133	11,102	7,000	5,518	4,660	4,342	3,704	2,124	3,100
Above Normal (15%)	1,524	2,485	2,951	5,826	8,251	5,857	3,310	2,713	3,543	4,623	1,900	1,870
Below Normal (17%)	1,572	1,686	2,404	2,060	5,039	2,802	2,861	2,122	3,374	4,433	2,277	1,397
Dry (22%)	1,340	1,506	1,359	1,444	1,922	2,187	1,641	1,798	2,558	3,352	1,663	1,330
Critical (15%)	1,573	1,524	1,194	1,049	939	787	1,158	1,147	1,139	2,311	655	706

Alternative 7 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-551**	172	105	0	20	**-510**	20	0	0	0	**-154**	**-444**
20%	**-91**	**-516**	**-9**	3	77	5	**-50**	234	981	0	**-110**	**-589**
30%	**-137**	**-2**	0	293	503	1	**-31**	339	904	0	**-23**	**-403**
40%	**-9**	62	**-10**	29	0	359	**-142**	123	698	**-207**	**-21**	**-351**
50%	0	90	**-36**	0	145	13	**-120**	181	578	**-151**	**-89**	**-14**
60%	21	110	117	0	**-100**	**-233**	**-10**	139	382	**-272**	0	0
70%	25	44	**-104**	0	20	**-91**	**-69**	50	248	**-77**	**-65**	31
80%	122	196	0	**-127**	0	**-24**	**-168**	37	**-70**	241	**-49**	**-2**
90%	0	0	0	0	**-102**	0	0	0	**-59**	652	0	37
Long Term												
Full Simulation Period[a]	**-49**	**-11**	**-20**	11	35	**-37**	**-82**	123	374	12	**-73**	**-178**
Water Year Types[b]												
Wet (32%)	29	**-4**	16	96	1	7	10	68	648	**-157**	**-8**	**-522**
Above Normal (15%)	**-207**	**-69**	18	21	98	67	12	192	520	**-304**	**-44**	**-173**
Below Normal (17%)	**-195**	**-30**	**-122**	**-13**	77	8	**-108**	153	491	105	**-47**	**-208**
Dry (22%)	81	82	8	**-62**	78	**-128**	**-247**	112	**-38**	209	44	148
Critical (15%)	**-81**	**-84**	**-57**	**-46**	**-68**	**-151**	**-97**	155	115	289	**-445**	112

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-19-24. American River d/s of Nimbus Dam, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,799	2,943	8,472	13,543	15,920	9,685	6,898	6,542	5,000	5,000	3,007	4,089
20%	1,948	2,541	2,621	8,534	11,151	6,067	4,987	3,495	3,811	5,000	2,586	3,527
30%	1,710	1,925	2,000	5,362	6,966	4,749	4,203	2,624	3,266	5,000	2,323	2,588
40%	1,509	1,683	2,000	2,559	5,186	3,902	3,070	2,357	3,015	4,657	1,927	1,917
50%	1,500	1,593	1,786	1,750	3,198	2,908	2,609	1,759	2,673	4,072	1,839	1,548
60%	1,479	1,413	1,620	1,700	2,020	2,092	1,760	1,611	2,347	3,559	1,750	1,533
70%	1,181	1,162	1,214	1,488	1,445	1,466	1,513	1,358	1,761	2,923	1,540	1,420
80%	902	809	800	1,152	1,264	824	1,164	988	1,513	2,331	939	802
90%	800	800	800	800	902	800	800	800	959	1,349	800	721
Long Term												
Full Simulation Period[a]	1,592	2,043	3,297	5,194	6,112	4,187	3,334	2,676	2,825	3,670	1,874	2,068
Water Year Types[b]												
Wet (32%)	1,634	2,612	6,171	11,036	11,102	6,992	5,508	4,592	3,694	3,860	2,132	3,622
Above Normal (15%)	1,732	2,554	2,933	5,805	8,153	5,790	3,298	2,521	3,022	4,927	1,944	2,044
Below Normal (17%)	1,767	1,716	2,527	2,073	4,961	2,794	2,970	1,969	2,883	4,328	2,324	1,605
Dry (22%)	1,258	1,424	1,351	1,506	1,844	2,314	1,888	1,686	2,596	3,143	1,620	1,182
Critical (15%)	1,655	1,608	1,251	1,095	1,007	938	1,255	992	1,025	2,022	1,100	594

Alternative 8 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,539	2,697	8,613	13,543	15,927	9,177	6,951	6,542	5,000	4,868	3,246	4,079
20%	1,800	1,925	3,250	8,538	11,309	6,072	5,000	5,000	4,563	3,959	2,697	3,490
30%	1,500	1,925	2,000	5,649	7,469	4,931	4,455	3,921	3,782	3,319	1,950	2,782
40%	1,500	1,762	2,000	2,923	5,324	4,046	3,797	3,648	3,368	2,815	1,750	1,690
50%	1,500	1,683	1,833	1,750	3,770	2,759	3,169	3,195	2,865	2,502	1,750	1,533
60%	1,481	1,378	1,532	1,700	2,459	1,750	2,400	2,590	2,515	2,275	1,750	1,519
70%	1,246	995	981	1,488	1,512	1,264	1,750	1,756	2,242	2,108	1,601	1,312
80%	810	800	800	850	1,264	800	1,264	1,600	1,701	1,467	911	800
90%	800	800	800	800	800	800	800	894	720	710	710	617
Long Term												
Full Simulation Period[a]	1,576	1,897	3,354	5,285	6,156	4,064	3,597	3,453	3,084	2,633	1,841	2,085
Water Year Types[b]												
Wet (32%)	1,598	2,560	6,407	11,121	11,074	6,996	5,597	4,863	3,987	2,927	2,007	3,559
Above Normal (15%)	1,953	2,175	2,947	6,235	8,304	5,452	3,240	2,744	3,339	2,928	2,042	2,649
Below Normal (17%)	1,610	1,427	2,461	2,259	5,087	2,801	3,384	3,385	2,910	3,237	2,460	1,383
Dry (22%)	1,233	1,494	1,399	1,429	1,950	2,058	2,366	2,888	2,788	2,604	1,576	1,150
Critical (15%)	1,629	1,336	1,117	1,003	907	807	1,717	2,031	1,522	1,041	955	548

Alternative 8 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-259	-246	141	0	8	-508	53	0	0	-132	239	-10
20%	-148	-616	628	3	158	5	13	1,505	752	-1,041	112	-37
30%	-210	0	0	287	503	182	253	1,297	516	-1,681	-373	194
40%	-9	78	0	363	139	144	727	1,291	353	-1,842	-177	-227
50%	0	90	47	0	572	-148	560	1,436	192	-1,570	-89	-14
60%	1	-34	-88	0	439	-342	640	979	168	-1,284	0	-14
70%	64	-167	-233	0	67	-202	237	398	481	-815	60	-108
80%	-91	-9	0	-303	0	-24	100	612	188	-864	-28	-2
90%	0	0	0	0	-102	0	0	94	-239	-639	-90	-104
Long Term												
Full Simulation Period[a]	-15	-146	57	91	44	-123	263	777	259	-1,037	-33	17
Water Year Types[b]												
Wet (32%)	-36	-52	236	85	-28	3	88	271	293	-934	-125	-63
Above Normal (15%)	221	-379	14	430	151	-339	-59	223	317	-1,999	98	605
Below Normal (17%)	-157	-289	-66	186	126	7	415	1,416	27	-1,091	136	-222
Dry (22%)	-26	70	48	-77	107	-256	478	1,202	192	-540	-44	-31
Critical (15%)	-26	-272	-134	-92	-100	-131	462	1,040	498	-982	-145	-45

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-19-25. American River d/s of Nimbus Dam, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,799	2,943	8,472	13,543	15,920	9,685	6,898	6,542	5,000	5,000	3,007	4,089
20%	1,948	2,541	2,621	8,534	11,151	6,067	4,987	3,495	3,811	5,000	2,586	3,527
30%	1,710	1,925	2,000	5,362	6,966	4,749	4,203	2,624	3,266	5,000	2,323	2,588
40%	1,509	1,683	2,000	2,559	5,186	3,902	3,070	2,357	3,015	4,657	1,927	1,917
50%	1,500	1,593	1,786	1,750	3,198	2,908	2,609	1,759	2,673	4,072	1,839	1,548
60%	1,479	1,413	1,620	1,700	2,020	2,092	1,760	1,611	2,347	3,559	1,750	1,533
70%	1,181	1,162	1,214	1,488	1,445	1,466	1,513	1,358	1,761	2,923	1,540	1,420
80%	902	809	800	1,152	1,264	824	1,164	988	1,513	2,331	939	802
90%	800	800	800	800	902	800	800	800	959	1,349	800	721
Long Term												
Full Simulation Period[a]	1,592	2,043	3,297	5,194	6,112	4,187	3,334	2,676	2,825	3,670	1,874	2,068
Water Year Types[b]												
Wet (32%)	1,634	2,612	6,171	11,036	11,102	6,992	5,508	4,592	3,694	3,860	2,132	3,622
Above Normal (15%)	1,732	2,554	2,933	5,805	8,153	5,790	3,298	2,521	3,022	4,927	1,944	2,044
Below Normal (17%)	1,767	1,716	2,527	2,073	4,961	2,794	2,970	1,969	2,883	4,328	2,324	1,605
Dry (22%)	1,258	1,424	1,351	1,506	1,844	2,314	1,888	1,686	2,596	3,143	1,620	1,182
Critical (15%)	1,655	1,608	1,251	1,095	1,007	938	1,255	992	1,025	2,022	1,100	594

Alternative 9 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,163	3,514	8,502	13,547	15,921	9,703	6,907	6,542	5,000	5,000	2,713	4,063
20%	1,812	2,534	2,892	8,537	11,309	6,071	4,948	3,411	3,890	4,704	2,434	3,664
30%	1,603	1,925	2,000	5,645	6,978	4,749	4,328	2,699	3,385	4,247	2,215	2,809
40%	1,500	1,767	2,000	2,466	5,186	3,881	3,274	2,491	3,034	3,795	1,976	1,844
50%	1,500	1,683	1,864	1,733	3,549	2,865	2,689	2,087	2,720	3,058	1,756	1,621
60%	1,500	1,552	1,750	1,700	1,965	1,966	1,810	1,959	2,390	2,907	1,750	1,532
70%	1,298	1,318	1,419	1,516	1,445	1,424	1,598	1,750	2,026	2,459	1,634	1,419
80%	1,004	1,070	971	1,272	1,361	827	1,197	1,427	1,537	2,177	908	840
90%	800	800	800	800	926	800	800	1,180	877	1,537	800	758
Long Term												
Full Simulation Period[a]	1,518	2,168	3,328	5,222	6,167	4,170	3,393	2,886	2,884	3,256	1,818	2,107
Water Year Types[b]												
Wet (32%)	1,639	2,819	6,160	11,134	11,107	6,998	5,517	4,637	3,852	3,690	2,109	3,573
Above Normal (15%)	1,446	2,428	2,930	5,819	8,263	5,782	3,312	2,588	3,104	4,497	1,955	2,112
Below Normal (17%)	1,519	1,733	2,523	2,139	4,983	2,798	3,068	2,364	2,921	3,571	2,292	1,788
Dry (22%)	1,395	1,687	1,496	1,433	1,983	2,236	2,092	2,130	2,521	2,408	1,489	1,205
Critical (15%)	1,510	1,725	1,276	1,096	1,021	929	1,206	1,130	1,066	1,975	991	651

Alternative 9 (LLT) minus No Action Alternative (LLT)

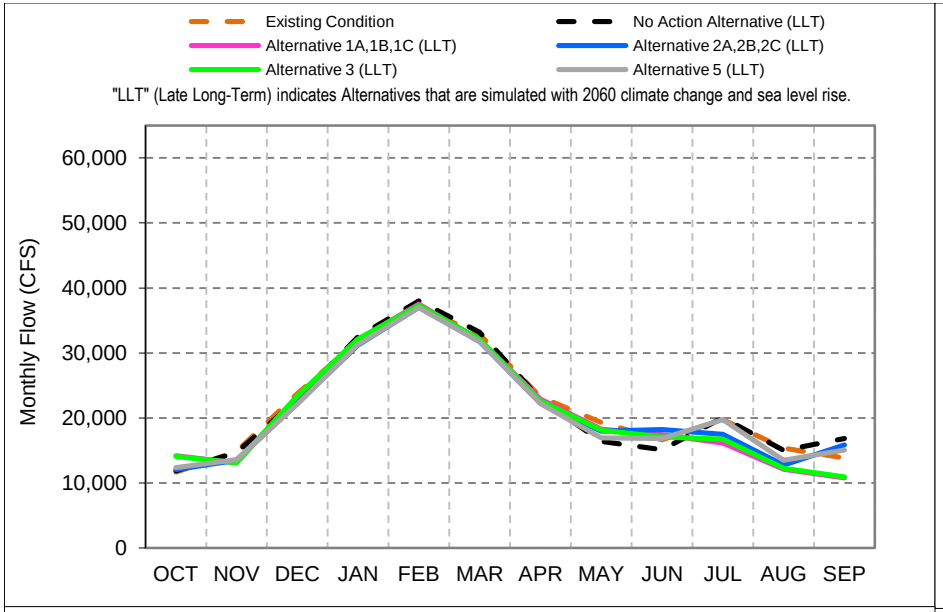
	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-636**	571	30	4	1	17	9	0	0	0	**-294**	**-26**
20%	**-136**	**-7**	271	3	158	4	**-39**	**-84**	78	**-296**	**-152**	137
30%	**-107**	0	0	283	12	0	125	75	118	**-753**	**-108**	221
40%	**-9**	84	0	**-94**	0	**-21**	204	134	19	**-862**	49	**-73**
50%	0	90	78	**-17**	351	**-43**	80	328	47	**-1,015**	**-83**	73
60%	21	139	130	0	**-55**	**-127**	50	348	43	**-652**	0	**-2**
70%	116	156	205	29	0	**-42**	85	392	265	**-464**	94	**-1**
80%	102	261	171	120	96	3	33	439	24	**-155**	**-31**	38
90%	0	0	0	0	24	0	0	380	**-82**	188	0	37
Long Term												
Full Simulation Period[a]	**-74**	125	31	28	54	**-17**	59	209	58	**-414**	**-56**	39
Water Year Types[b]												
Wet (32%)	5	207	**-11**	97	5	6	9	45	159	**-170**	**-23**	**-49**
Above Normal (15%)	**-285**	**-126**	**-2**	14	111	**-9**	14	67	82	**-430**	10	69
Below Normal (17%)	**-247**	17	**-4**	66	22	4	98	395	38	**-757**	**-32**	183
Dry (22%)	137	262	145	**-73**	139	**-78**	203	444	**-75**	**-735**	**-131**	23
Critical (15%)	**-144**	117	25	1	15	**-9**	**-49**	139	41	**-48**	**-109**	58

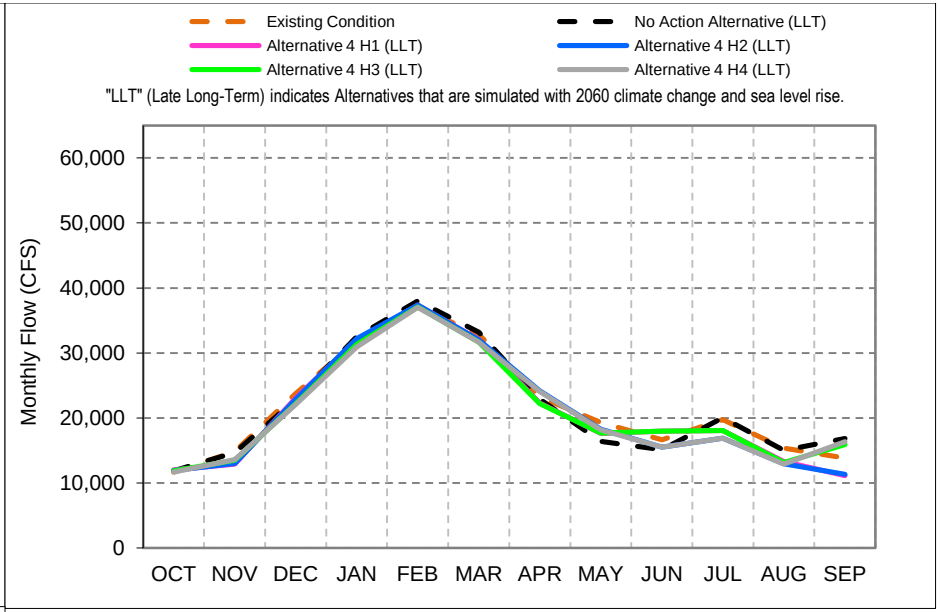
Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

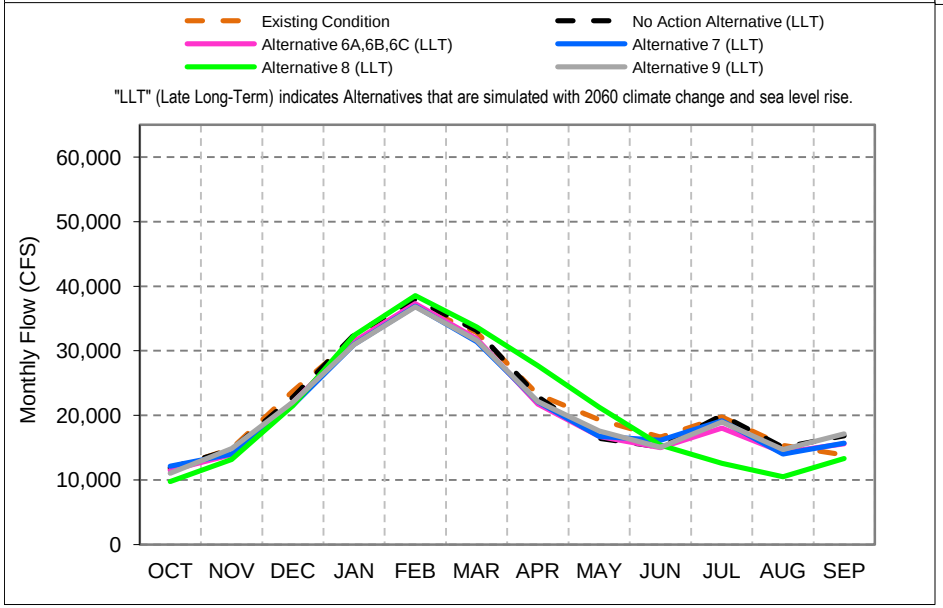
a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

C.20. Sacramento River Flow at Freeport



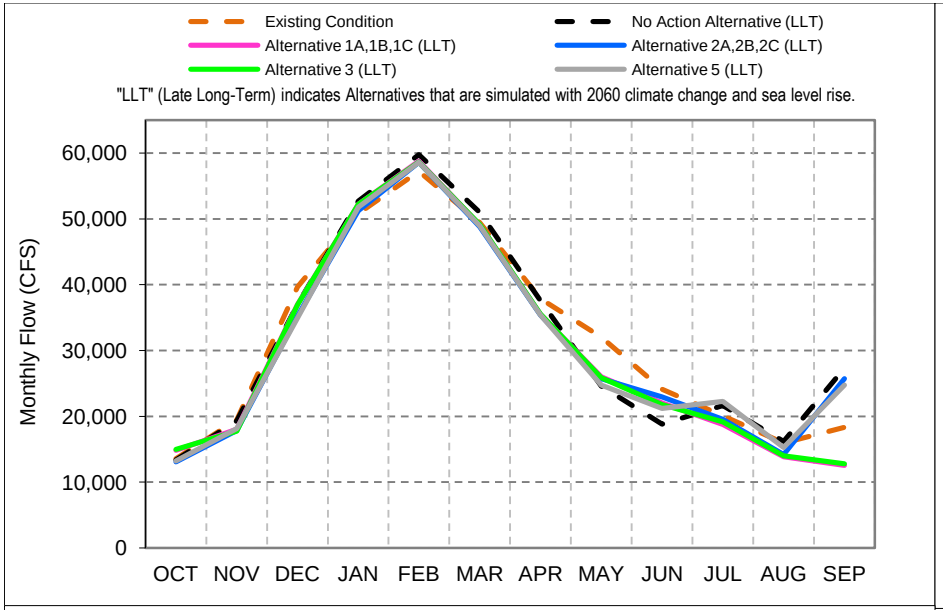


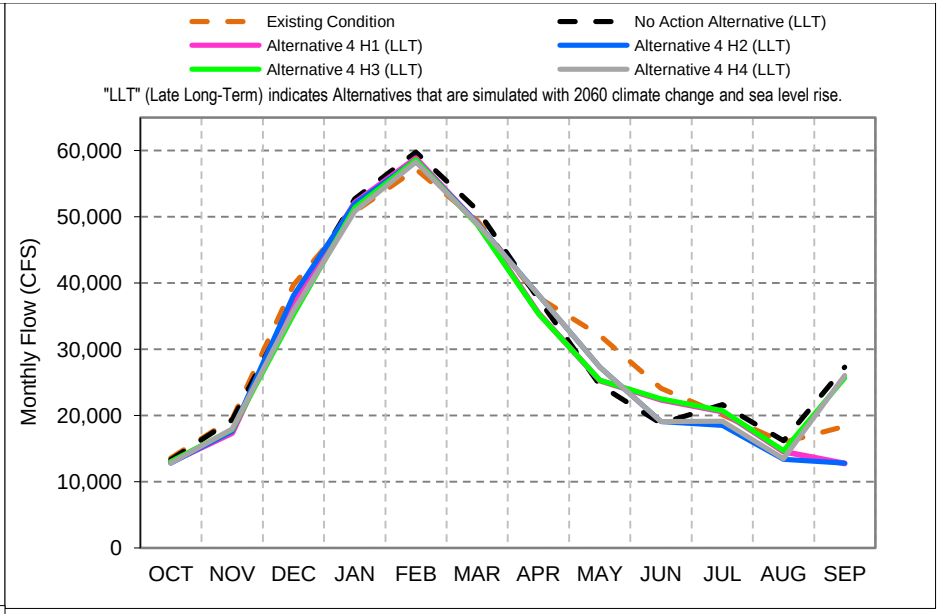


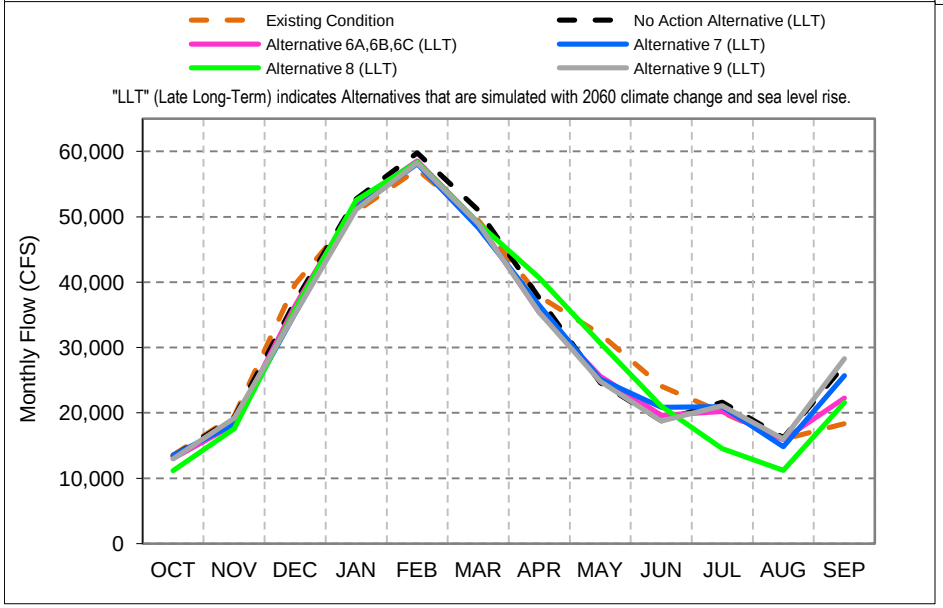
Alternative 4 Scenario Definitions:

H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

Figure C-20-1. Sacramento River at Freeport, Long-Term Average Flow





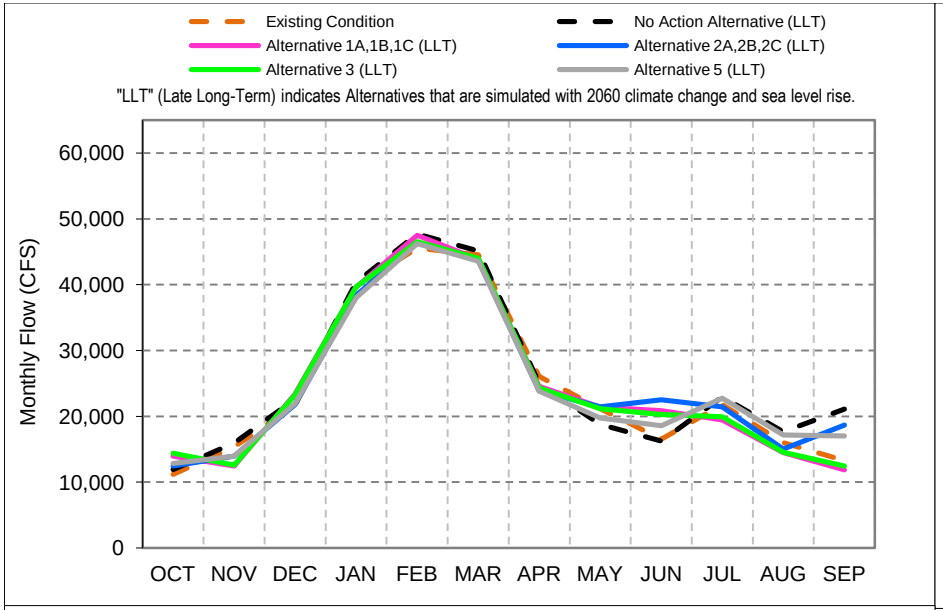


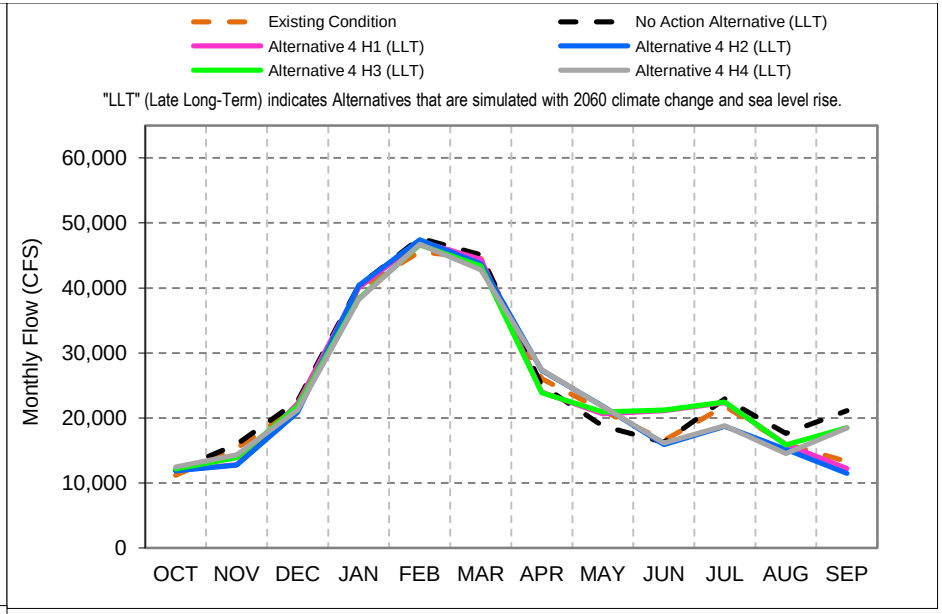
Alternative 4 Scenario Definitions:

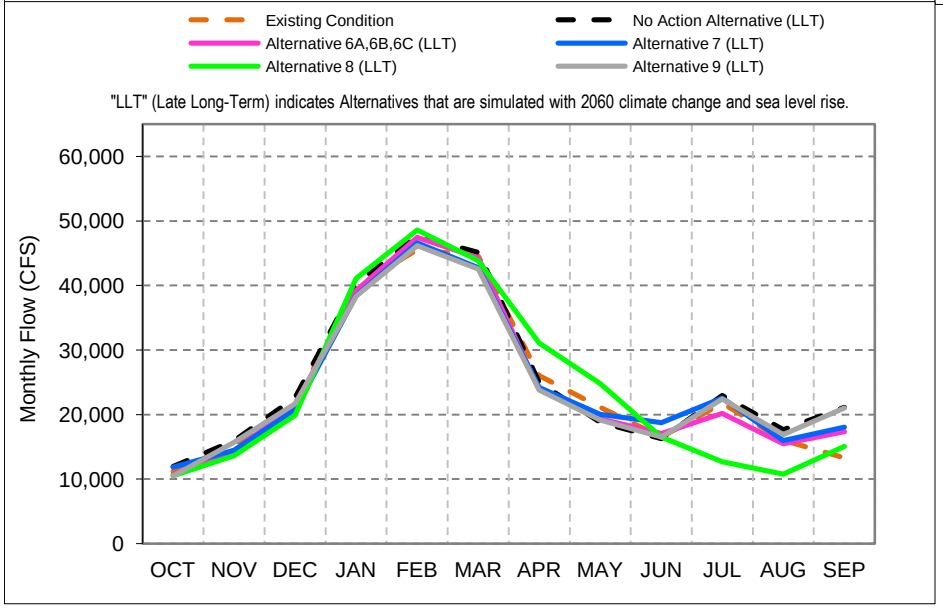
H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-20-2. Sacramento River at Freeport, Wet Year* Average Flow





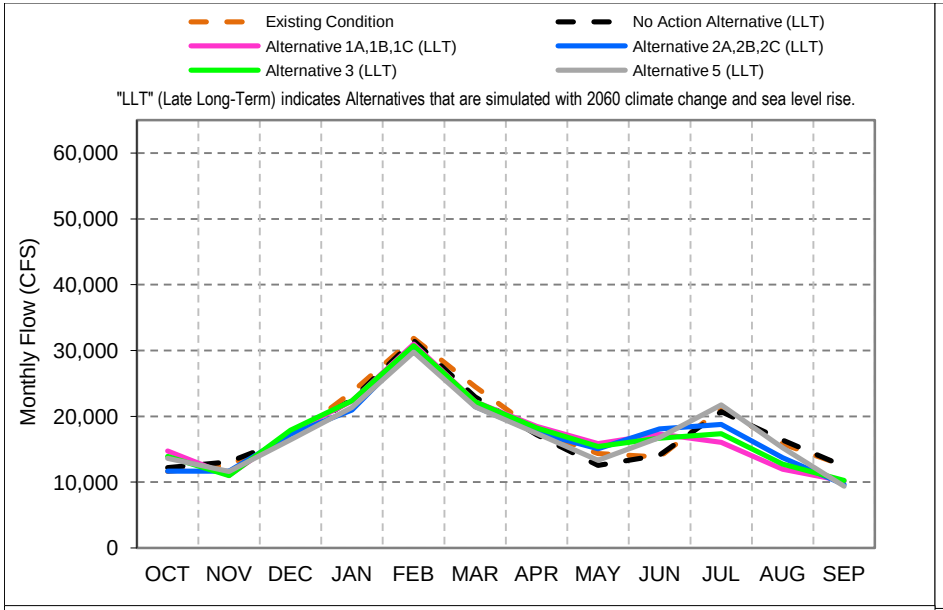


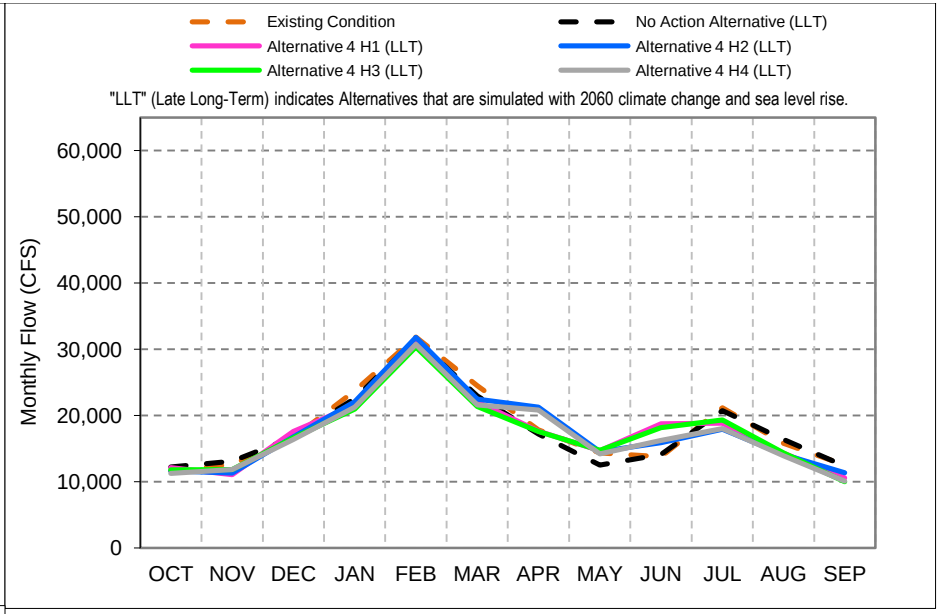
Alternative 4 Scenario Definitions:

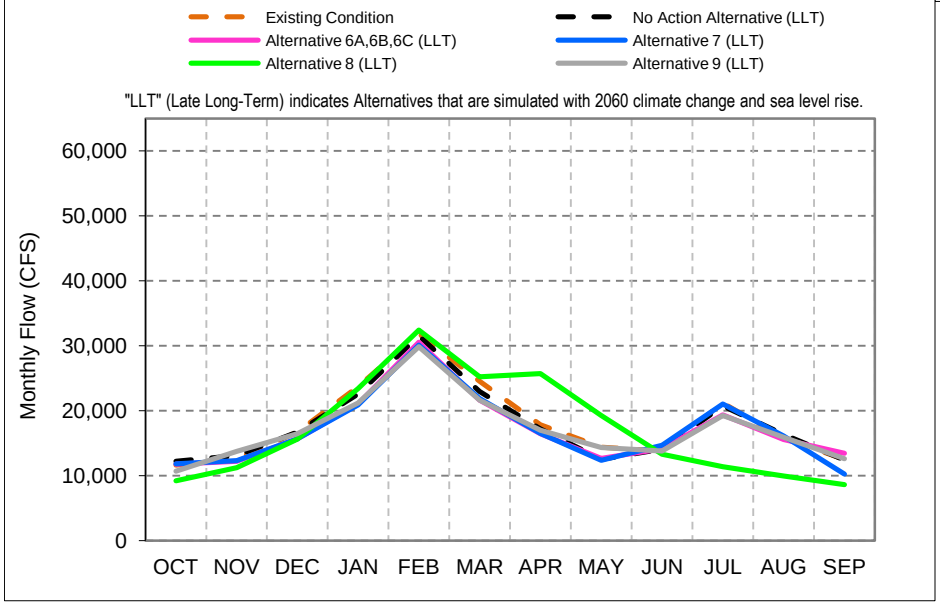
H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-20-3. Sacramento River at Freeport, Above Normal Year* Average Flow





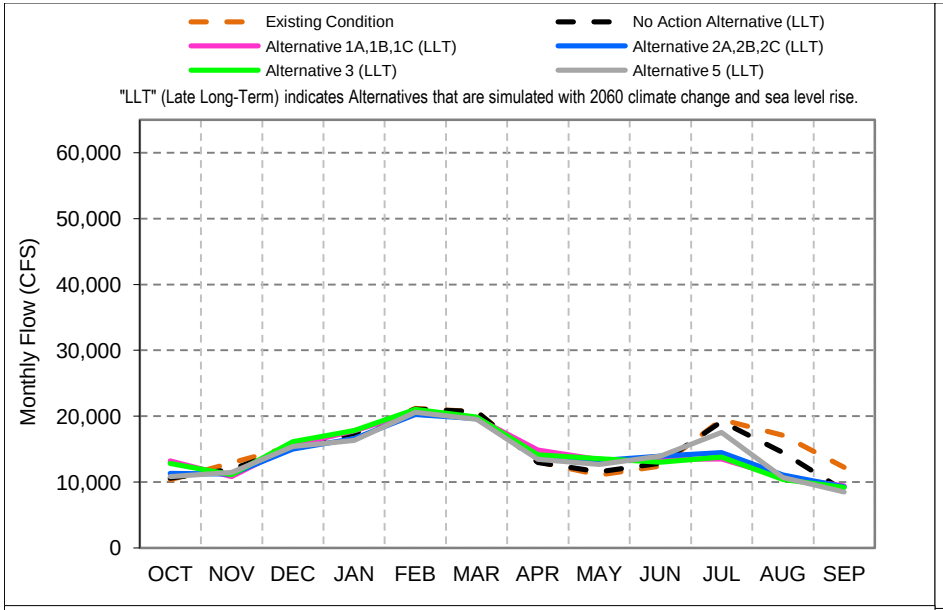


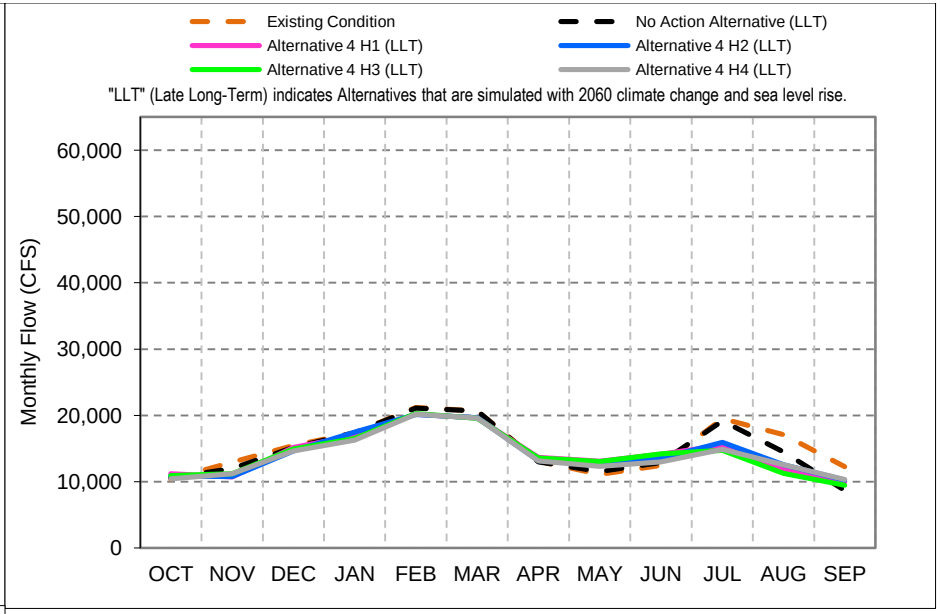
Alternative 4 Scenario Definitions:

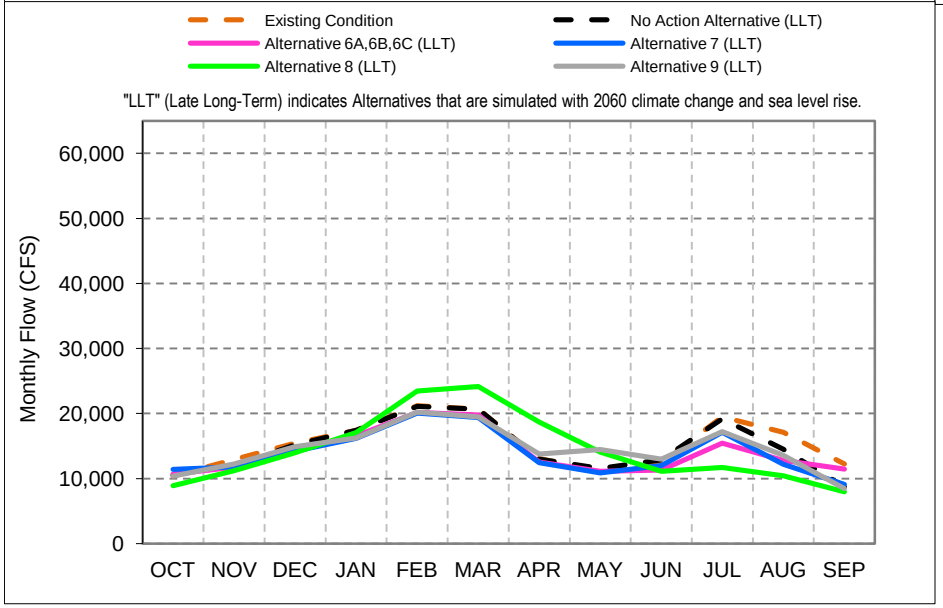
H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-20-4. Sacramento River at Freeport, Below Normal Year* Average Flow





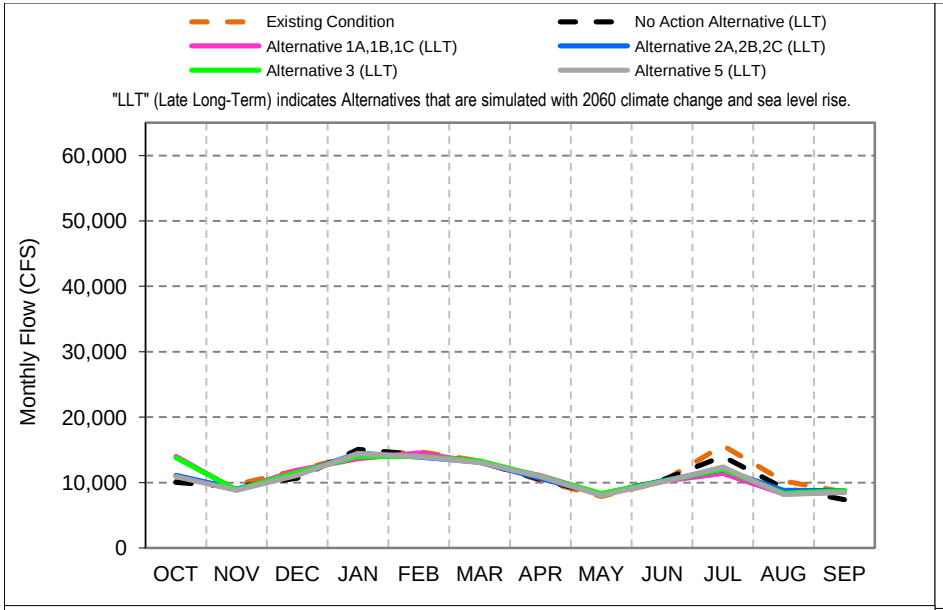


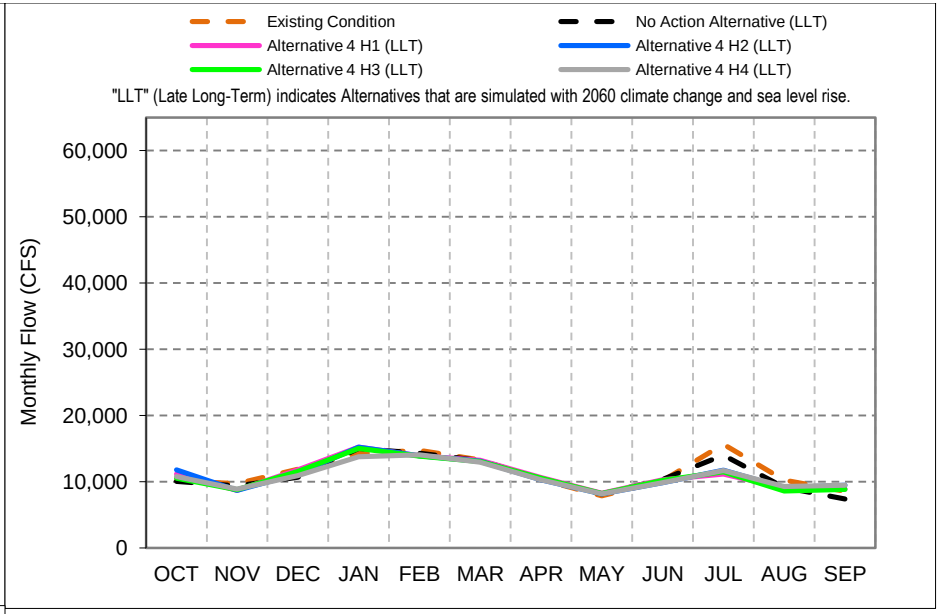
Alternative 4 Scenario Definitions:

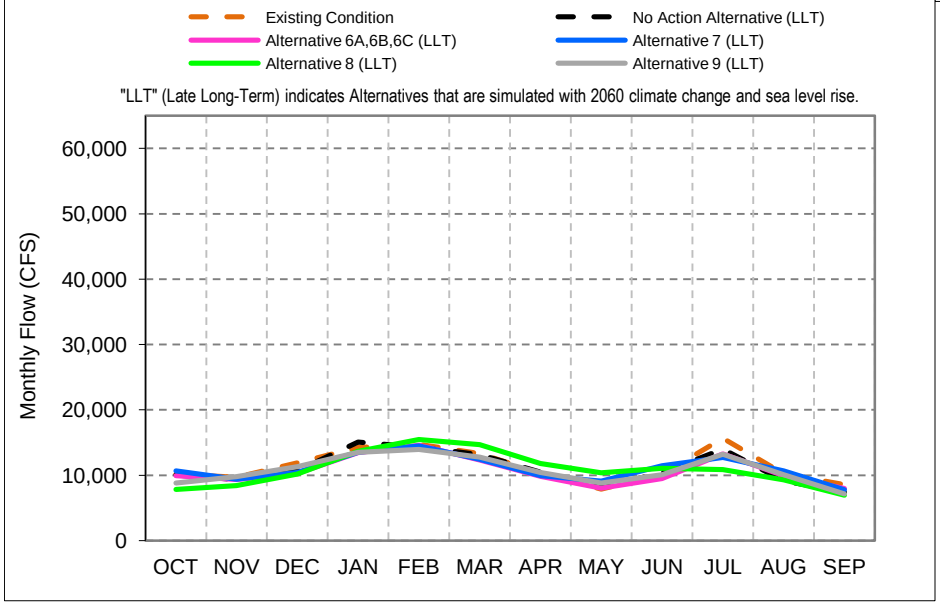
H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-20-5. Sacramento River at Freeport, Dry Year* Average Flow







Alternative 4 Scenario Definitions:

H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-20-6. Sacramento River at Freeport, Critical Year* Average Flow

Table C-20-1. Sacramento River at Freeport, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	15,407	24,427	51,094	63,434	68,256	61,156	50,243	41,972	26,032	23,545	18,025	19,590
20%	13,765	15,847	36,152	56,012	60,934	51,777	38,496	27,859	20,410	22,708	17,588	17,116
30%	12,858	14,563	24,821	41,045	51,013	43,112	23,516	18,662	15,247	21,374	16,921	14,104
40%	11,766	13,576	18,406	30,911	43,446	33,804	20,554	15,293	13,924	20,443	16,605	13,660
50%	11,278	12,179	16,439	24,758	33,438	27,155	16,221	13,689	13,373	19,911	16,172	13,212
60%	10,626	11,177	15,011	19,442	24,695	22,066	13,316	12,101	12,691	19,645	15,692	12,776
70%	9,804	10,841	12,950	15,694	19,946	19,191	12,034	10,982	12,374	19,278	15,229	12,051
80%	9,000	9,642	11,585	13,339	14,885	15,383	11,232	10,131	11,721	17,257	13,450	11,043
90%	7,694	8,451	9,896	12,533	13,059	11,666	9,806	8,901	10,361	14,669	10,150	8,062
Long Term												
Full Simulation Period[a]	11,696	14,834	23,734	31,874	37,057	32,865	23,236	19,303	16,633	19,748	15,358	13,847
Water Year Types[b]												
Wet (32%)	13,583	19,472	39,674	50,800	57,222	49,436	37,854	32,064	24,106	20,096	15,965	18,351
Above Normal (15%)	11,200	15,357	21,658	39,719	45,570	44,531	26,041	21,138	16,526	21,793	16,021	13,297
Below Normal (17%)	11,642	12,633	16,695	23,705	31,864	24,520	17,823	14,366	13,793	21,176	15,792	12,522
Dry (22%)	10,366	12,920	15,471	17,397	21,179	20,684	13,066	11,093	12,451	19,498	17,113	12,250
Critical (15%)	10,161	9,703	11,879	14,265	14,732	13,300	10,325	7,897	10,133	15,656	10,242	8,580

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,520	20,933	48,723	65,933	70,538	64,077	49,290	34,057	18,835	24,508	18,024	29,045
20%	13,547	17,929	34,308	58,498	65,197	55,065	37,063	22,075	16,545	24,006	17,293	26,992
30%	13,136	16,559	22,188	40,921	51,209	43,781	23,035	15,989	15,632	23,370	16,788	23,595
40%	12,921	15,186	18,361	27,468	44,426	32,715	20,117	12,751	14,648	22,549	16,393	21,918
50%	12,316	14,012	15,967	22,991	34,267	25,193	15,145	12,049	13,752	21,553	15,960	12,912
60%	11,349	12,014	14,434	20,308	24,198	21,452	12,276	11,371	13,439	20,296	15,441	10,782
70%	10,225	9,917	13,741	17,513	18,833	18,890	11,546	11,024	12,865	18,346	14,345	9,219
80%	9,117	8,522	11,963	13,741	15,997	15,259	11,288	9,850	12,103	16,208	13,211	8,105
90%	7,641	7,513	9,061	12,265	12,542	11,743	10,225	8,840	11,110	12,429	9,280	7,714
Long Term												
Full Simulation Period[a]	11,857	14,692	22,789	32,496	38,028	33,164	22,892	16,422	15,098	20,020	15,039	16,857
Water Year Types[b]												
Wet (32%)	13,355	19,308	36,987	52,716	59,754	51,011	37,588	24,615	18,807	21,644	16,212	27,309
Above Normal (15%)	11,937	15,972	22,622	40,339	47,678	45,122	24,993	18,772	16,266	22,945	17,635	21,102
Below Normal (17%)	12,208	13,094	16,708	22,575	31,522	22,944	17,199	12,531	14,112	20,734	16,382	12,399
Dry (22%)	10,572	11,964	15,185	17,404	21,083	20,677	12,978	11,558	12,882	19,182	14,498	8,713
Critical (15%)	10,051	9,364	10,694	15,056	14,311	13,190	10,460	8,156	10,369	14,003	9,143	7,386

No Action Alternative (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-887**	**-3,494**	**-2,371**	2,498	2,283	2,921	**-953**	**-7,915**	**-7,197**	963	**0**	9,455
20%	**-218**	2,082	**-1,844**	2,487	4,263	3,288	**-1,433**	**-5,784**	**-3,865**	1,298	**-294**	9,876
30%	278	1,996	**-2,633**	**-124**	196	669	**-481**	**-2,673**	386	1,996	**-133**	9,491
40%	1,155	1,610	**-44**	**-3,443**	980	**-1,089**	**-436**	**-2,543**	724	2,106	**-212**	8,258
50%	1,038	1,833	**-472**	**-1,766**	828	**-1,961**	**-1,076**	**-1,639**	378	1,642	**-213**	**-300**
60%	723	838	**-577**	866	**-497**	**-614**	**-1,040**	**-730**	747	650	**-251**	**-1,994**
70%	421	**-925**	791	1,819	**-1,113**	**-301**	**-488**	42	490	**-932**	**-884**	**-2,832**
80%	117	**-1,120**	377	402	1,112	**-124**	57	**-281**	382	**-1,049**	**-239**	**-2,938**
90%	**-53**	**-938**	**-835**	**-268**	**-517**	77	419	**-61**	749	**-2,240**	**-870**	**-348**
Long Term												
Full Simulation Period[a]	161	**-143**	**-945**	622	970	299	**-344**	**-2,882**	**-1,535**	272	**-319**	3,010
Water Year Types[b]												
Wet (32%)	**-228**	**-165**	**-2,687**	1,916	2,532	1,575	**-266**	**-7,450**	**-5,299**	1,548	248	8,957
Above Normal (15%)	737	615	964	620	2,109	591	**-1,049**	**-2,366**	**-260**	1,152	1,614	7,806
Below Normal (17%)	565	461	13	**-1,130**	**-342**	**-1,576**	**-624**	**-1,835**	320	**-442**	589	**-122**
Dry (22%)	206	**-956**	**-286**	6	**-96**	**-7**	**-88**	465	430	**-316**	**-2,614**	**-3,536**
Critical (15%)	**-110**	**-338**	**-1,185**	791	**-421**	**-110**	135	259	236	**-1,653**	**-1,099**	**-1,194**

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-20-2. Sacramento River at Freeport, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	15,407	24,427	51,094	63,434	68,256	61,156	50,243	41,972	26,032	23,545	18,025	19,590
20%	13,765	15,847	36,152	56,012	60,934	51,777	38,496	27,859	20,410	22,708	17,588	17,116
30%	12,858	14,563	24,821	41,045	51,013	43,112	23,516	18,662	15,247	21,374	16,921	14,104
40%	11,766	13,576	18,406	30,911	43,446	33,804	20,554	15,293	13,924	20,443	16,605	13,660
50%	11,278	12,179	16,439	24,758	33,438	27,155	16,221	13,689	13,373	19,911	16,172	13,212
60%	10,626	11,177	15,011	19,442	24,695	22,066	13,316	12,101	12,691	19,645	15,692	12,776
70%	9,804	10,841	12,950	15,694	19,946	19,191	12,034	10,982	12,374	19,278	15,229	12,051
80%	9,000	9,642	11,585	13,339	14,885	15,383	11,232	10,131	11,721	17,257	13,450	11,043
90%	7,694	8,451	9,896	12,533	13,059	11,666	9,806	8,901	10,361	14,669	10,150	8,062
Long Term												
Full Simulation Period[a]	11,696	14,834	23,734	31,874	37,057	32,865	23,236	19,303	16,633	19,748	15,358	13,847
Water Year Types[b]												
Wet (32%)	13,583	19,472	39,674	50,800	57,222	49,436	37,854	32,064	24,106	20,096	15,965	18,351
Above Normal (15%)	11,200	15,357	21,658	39,719	45,570	44,531	26,041	21,138	16,526	21,793	16,021	13,297
Below Normal (17%)	11,642	12,633	16,695	23,705	31,864	24,520	17,823	14,366	13,793	21,176	15,792	12,522
Dry (22%)	10,366	12,920	15,471	17,397	21,179	20,684	13,066	11,093	12,451	19,498	17,113	12,250
Critical (15%)	10,161	9,703	11,879	14,265	14,732	13,300	10,325	7,897	10,133	15,656	10,242	8,580

Alternative 1A,1B,1C (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	20,340	21,034	47,760	65,296	70,682	62,082	45,731	33,600	24,588	21,645	16,737	13,391
20%	18,413	14,880	32,703	56,741	62,850	51,830	32,224	24,385	21,263	20,254	13,492	12,545
30%	16,703	12,534	22,382	38,865	49,590	40,847	22,685	21,296	19,449	19,029	12,773	11,767
40%	15,299	11,470	19,095	26,788	42,849	29,594	20,131	16,924	18,147	18,334	12,532	11,117
50%	13,995	10,597	17,349	22,707	29,745	24,660	16,484	14,084	17,467	16,710	11,976	10,414
60%	13,062	10,051	15,613	20,188	23,083	21,021	15,005	13,294	15,500	15,171	11,485	10,008
70%	11,281	9,549	14,538	17,298	19,504	19,194	13,914	12,381	12,976	13,931	10,941	9,708
80%	9,150	8,407	12,764	14,430	15,928	15,413	11,905	11,320	12,191	10,982	8,771	8,753
90%	7,356	8,068	9,476	12,796	12,624	11,716	11,259	8,968	10,903	9,809	7,935	7,781
Long Term												
Full Simulation Period[a]	14,207	13,097	23,302	32,064	37,516	32,007	22,893	18,249	17,450	16,175	12,129	10,771
Water Year Types[b]												
Wet (32%)	14,818	18,020	37,003	52,200	58,768	49,080	35,506	26,025	22,045	18,771	13,872	12,559
Above Normal (15%)	13,949	12,465	23,374	39,622	47,480	43,857	24,559	21,394	20,886	19,431	14,508	11,879
Below Normal (17%)	14,747	11,042	17,559	22,332	30,958	22,201	18,500	15,868	17,320	16,073	11,947	10,170
Dry (22%)	13,210	10,821	15,551	17,780	20,593	19,711	14,866	13,421	13,458	13,530	10,721	9,427
Critical (15%)	14,008	8,877	11,872	13,659	14,543	13,047	11,061	8,275	10,195	11,383	8,299	8,507

Alternative 1A,1B,1C (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,933	-3,393	-3,333	1,861	2,427	926	-4,511	-8,371	-1,444	-1,900	-1,288	-6,199
20%	4,648	-967	-3,449	729	1,917	53	-6,272	-3,474	853	-2,454	-4,096	-4,571
30%	3,844	-2,029	-2,439	-2,180	-1,422	-2,265	-831	2,634	4,203	-2,345	-4,148	-2,336
40%	3,533	-2,106	689	-4,123	-597	-4,210	-423	1,631	4,222	-2,109	-4,073	-2,543
50%	2,717	-1,582	910	-2,051	-3,694	-2,494	263	396	4,094	-3,200	-4,196	-2,798
60%	2,436	-1,126	602	745	-1,612	-1,046	1,689	1,193	2,809	-4,475	-4,207	-2,768
70%	1,478	-1,292	1,589	1,604	-442	2	1,880	1,399	602	-5,347	-4,288	-2,343
80%	150	-1,235	1,179	1,090	1,043	30	673	1,189	470	-6,275	-4,679	-2,290
90%	-338	-382	-420	263	-435	50	1,454	67	542	-4,860	-2,215	-281
Long Term												
Full Simulation Period[a]	2,511	-1,737	-432	190	459	-858	-343	-1,054	817	-3,572	-3,229	-3,076
Water Year Types[b]												
Wet (32%)	1,234	-1,453	-2,671	1,400	1,547	-356	-2,348	-6,039	-2,060	-1,325	-2,092	-5,792
Above Normal (15%)	2,749	-2,892	1,715	-97	1,910	-674	-1,483	257	4,360	-2,362	-1,514	-1,418
Below Normal (17%)	3,105	-1,591	864	-1,373	-907	-2,319	676	1,502	3,528	-5,103	-3,846	-2,351
Dry (22%)	2,845	-2,099	80	382	-586	-973	1,800	2,329	1,007	-5,968	-6,392	-2,823
Critical (15%)	3,847	-826	-7	-605	-189	-253	737	377	62	-4,273	-1,943	-74

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-20-3. Sacramento River at Freeport, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	15,407	24,427	51,094	63,434	68,256	61,156	50,243	41,972	26,032	23,545	18,025	19,590
20%	13,765	15,847	36,152	56,012	60,934	51,777	38,496	27,859	20,410	22,708	17,588	17,116
30%	12,858	14,563	24,821	41,045	51,013	43,112	23,516	18,662	15,247	21,374	16,921	14,104
40%	11,766	13,576	18,406	30,911	43,446	33,804	20,554	15,293	13,924	20,443	16,605	13,660
50%	11,278	12,179	16,439	24,758	33,438	27,155	16,221	13,689	13,373	19,911	16,172	13,212
60%	10,626	11,177	15,011	19,442	24,695	22,066	13,316	12,101	12,691	19,645	15,692	12,776
70%	9,804	10,841	12,950	15,694	19,946	19,191	12,034	10,982	12,374	19,278	15,229	12,051
80%	9,000	9,642	11,585	13,339	14,885	15,383	11,232	10,131	11,721	17,257	13,450	11,043
90%	7,694	8,451	9,896	12,533	13,059	11,666	9,806	8,901	10,361	14,669	10,150	8,062
Long Term												
Full Simulation Period[a]	11,696	14,834	23,734	31,874	37,057	32,865	23,236	19,303	16,633	19,748	15,358	13,847
Water Year Types[b]												
Wet (32%)	13,583	19,472	39,674	50,800	57,222	49,436	37,854	32,064	24,106	20,096	15,965	18,351
Above Normal (15%)	11,200	15,357	21,658	39,719	45,570	44,531	26,041	21,138	16,526	21,793	16,021	13,297
Below Normal (17%)	11,642	12,633	16,695	23,705	31,864	24,520	17,823	14,366	13,793	21,176	15,792	12,522
Dry (22%)	10,366	12,920	15,471	17,397	21,179	20,684	13,066	11,093	12,451	19,498	17,113	12,250
Critical (15%)	10,161	9,703	11,879	14,265	14,732	13,300	10,325	7,897	10,133	15,656	10,242	8,580

Alternative 2A,2B,2C (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	15,329	20,521	47,093	65,751	70,480	62,102	45,723	33,766	26,146	23,599	17,034	27,385
20%	14,103	14,938	31,715	57,071	63,367	51,625	32,226	25,077	24,050	21,589	15,609	25,332
30%	13,492	14,334	20,729	39,259	48,132	40,018	22,587	20,974	21,963	20,662	13,742	21,402
40%	12,518	12,432	17,982	24,874	43,253	29,339	20,009	15,453	20,064	19,339	13,135	17,808
50%	11,989	11,681	15,911	21,503	29,895	23,879	16,072	13,892	17,689	18,353	12,498	12,048
60%	11,435	10,813	14,435	18,653	23,144	20,658	13,182	12,714	14,869	16,651	11,772	9,774
70%	11,073	9,909	13,661	15,558	19,273	18,515	12,551	11,984	13,052	14,936	11,285	9,362
80%	10,341	8,416	13,010	13,481	15,509	15,138	11,352	10,704	12,072	12,470	10,083	8,735
90%	8,140	7,147	9,496	12,271	12,368	11,528	10,738	8,675	10,900	10,619	8,402	7,735
Long Term												
Full Simulation Period[a]	12,087	13,473	22,262	31,213	37,033	31,776	22,291	17,987	18,231	17,467	12,760	15,848
Water Year Types[b]												
Wet (32%)	13,106	17,851	35,233	51,256	58,565	48,817	35,407	25,740	22,965	19,540	14,201	25,707
Above Normal (15%)	12,435	13,961	21,762	38,377	46,389	43,732	23,870	21,423	22,521	21,426	15,046	18,661
Below Normal (17%)	11,695	11,659	17,284	20,973	30,425	21,494	17,557	15,074	18,082	18,760	13,702	9,640
Dry (22%)	11,338	11,226	15,038	16,610	20,268	19,618	13,756	13,275	13,960	14,466	11,060	9,270
Critical (15%)	11,109	8,986	11,300	14,476	13,879	13,129	10,623	8,222	10,261	12,007	8,804	8,785

Alternative 2A,2B,2C (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-78	-3,906	-4,001	2,317	2,224	946	-4,519	-8,206	114	54	-991	7,795
20%	338	-909	-4,436	1,059	2,433	-152	-6,270	-2,782	3,640	-1,118	-1,978	8,216
30%	633	-228	-4,092	-1,786	-2,881	-3,094	-929	2,312	6,716	-712	-3,179	7,298
40%	752	-1,144	-424	-6,037	-192	-4,465	-545	160	6,140	-1,104	-3,470	4,148
50%	711	-498	-528	-3,255	-3,543	-3,276	-149	204	4,316	-1,558	-3,675	-1,164
60%	808	-363	-576	-790	-1,551	-1,408	-134	614	2,177	-2,995	-3,919	-3,002
70%	1,269	-933	712	-135	-673	-676	517	1,001	678	-4,343	-3,944	-2,689
80%	1,341	-1,226	1,424	141	624	-245	120	573	352	-4,787	-3,367	-2,308
90%	446	-1,304	-400	-262	-692	-138	933	-226	539	-4,050	-1,748	-327
Long Term												
Full Simulation Period[a]	391	-1,361	-1,472	-660	-25	-1,089	-944	-1,316	1,598	-2,281	-2,598	2,001
Water Year Types[b]												
Wet (32%)	-478	-1,621	-4,441	456	1,343	-620	-2,447	-6,324	-1,141	-556	-1,764	7,355
Above Normal (15%)	1,235	-1,396	104	-1,343	819	-800	-2,172	286	5,995	-367	-975	5,364
Below Normal (17%)	53	-974	590	-2,732	-1,439	-3,026	-266	709	4,290	-2,416	-2,090	-2,882
Dry (22%)	973	-1,694	-433	-787	-912	-1,066	690	2,182	1,509	-5,032	-6,052	-2,979
Critical (15%)	949	-716	-579	211	-853	-171	299	325	127	-3,649	-1,438	205

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-20-4. Sacramento River at Freeport, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	15,407	24,427	51,094	63,434	68,256	61,156	50,243	41,972	26,032	23,545	18,025	19,590
20%	13,765	15,847	36,152	56,012	60,934	51,777	38,496	27,859	20,410	22,708	17,588	17,116
30%	12,858	14,563	24,821	41,045	51,013	43,112	23,516	18,662	15,247	21,374	16,921	14,104
40%	11,766	13,576	18,406	30,911	43,446	33,804	20,554	15,293	13,924	20,443	16,605	13,660
50%	11,278	12,179	16,439	24,758	33,438	27,155	16,221	13,689	13,373	19,911	16,172	13,212
60%	10,626	11,177	15,011	19,442	24,695	22,066	13,316	12,101	12,691	19,645	15,692	12,776
70%	9,804	10,841	12,950	15,694	19,946	19,191	12,034	10,982	12,374	19,278	15,229	12,051
80%	9,000	9,642	11,585	13,339	14,885	15,383	11,232	10,131	11,721	17,257	13,450	11,043
90%	7,694	8,451	9,896	12,533	13,059	11,666	9,806	8,901	10,361	14,669	10,150	8,062
Long Term												
Full Simulation Period[a]	11,696	14,834	23,734	31,874	37,057	32,865	23,236	19,303	16,633	19,748	15,358	13,847
Water Year Types[b]												
Wet (32%)	13,583	19,472	39,674	50,800	57,222	49,436	37,854	32,064	24,106	20,096	15,965	18,351
Above Normal (15%)	11,200	15,357	21,658	39,719	45,570	44,531	26,041	21,138	16,526	21,793	16,021	13,297
Below Normal (17%)	11,642	12,633	16,695	23,705	31,864	24,520	17,823	14,366	13,793	21,176	15,792	12,522
Dry (22%)	10,366	12,920	15,471	17,397	21,179	20,684	13,066	11,093	12,451	19,498	17,113	12,250
Critical (15%)	10,161	9,703	11,879	14,265	14,732	13,300	10,325	7,897	10,133	15,656	10,242	8,580

Alternative 3 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	20,028	20,935	47,975	65,506	70,748	62,109	45,744	33,599	24,526	22,546	16,694	13,816
20%	17,897	14,569	32,725	57,422	62,819	51,834	32,223	23,877	21,130	20,809	14,211	12,622
30%	16,460	12,380	22,584	39,756	49,588	40,813	22,590	19,417	18,961	19,339	13,219	11,866
40%	14,804	11,566	19,079	26,833	43,168	29,591	20,238	16,421	17,641	18,638	12,738	11,030
50%	14,108	10,908	17,174	22,826	29,918	24,703	16,218	14,470	16,263	17,426	12,109	10,455
60%	13,316	10,235	15,695	20,455	23,181	20,821	14,174	13,262	15,132	15,727	11,571	10,134
70%	11,306	9,732	14,728	17,082	20,733	19,475	13,269	12,329	12,823	13,656	10,641	9,710
80%	9,193	8,371	13,429	13,773	15,914	15,433	11,800	11,383	11,978	11,650	8,966	8,696
90%	7,408	8,062	9,671	12,624	12,834	12,066	11,028	8,954	10,852	9,718	8,061	7,818
Long Term												
Full Simulation Period[a]	14,075	13,098	23,403	32,142	37,326	32,118	22,646	18,122	17,068	16,744	12,249	10,933
Water Year Types[b]												
Wet (32%)	14,989	17,735	36,959	52,229	58,650	49,129	35,517	25,851	21,781	19,164	13,990	12,814
Above Normal (15%)	14,412	12,610	23,228	39,658	46,546	43,982	24,315	21,163	20,262	19,930	14,541	12,451
Below Normal (17%)	13,927	11,017	17,896	22,355	30,749	22,226	18,259	15,411	16,701	17,345	12,755	10,261
Dry (22%)	12,820	11,125	16,111	17,809	21,036	19,883	14,150	13,577	13,021	13,785	10,381	9,170
Critical (15%)	13,814	8,928	11,569	14,022	14,009	13,292	10,954	8,312	10,163	12,055	8,392	8,766

Alternative 3 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,622	-3,492	-3,118	2,072	2,493	953	-4,499	-8,373	-1,505	-999	-1,331	-5,775
20%	4,132	-1,277	-3,427	1,410	1,885	57	-6,273	-3,982	720	-1,899	-3,377	-4,494
30%	3,602	-2,182	-2,237	-1,290	-1,424	-2,300	-926	755	3,715	-2,036	-3,702	-2,238
40%	3,038	-2,009	673	-4,078	-278	-4,213	-316	1,127	3,717	-1,805	-3,868	-2,630
50%	2,830	-1,271	735	-1,932	-3,521	-2,452	-3	781	2,890	-2,485	-4,063	-2,757
60%	2,689	-941	684	1,013	-1,514	-1,245	858	1,161	2,441	-3,918	-4,121	-2,642
70%	1,502	-1,110	1,779	1,388	787	284	1,235	1,346	449	-5,622	-4,588	-2,341
80%	193	-1,270	1,844	433	1,029	50	568	1,252	257	-5,607	-4,484	-2,346
90%	-286	-389	-225	91	-225	400	1,222	54	491	-4,951	-2,089	-244
Long Term												
Full Simulation Period[a]	2,379	-1,736	-331	268	268	-747	-589	-1,182	436	-3,004	-3,110	-2,914
Water Year Types[b]												
Wet (32%)	1,405	-1,737	-2,715	1,429	1,429	-308	-2,337	-6,213	-2,325	-932	-1,974	-5,538
Above Normal (15%)	3,212	-2,747	1,569	-62	977	-549	-1,726	25	3,736	-1,863	-1,480	-846
Below Normal (17%)	2,285	-1,616	1,201	-1,350	-1,115	-2,294	435	1,045	2,909	-3,832	-3,038	-2,260
Dry (22%)	2,455	-1,795	640	412	-143	-801	1,084	2,484	569	-5,713	-6,731	-3,079
Critical (15%)	3,653	-775	-310	-242	-723	-8	629	415	30	-3,601	-1,850	185

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-20-5. Sacramento River at Freeport, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	15,407	24,427	51,094	63,434	68,256	61,156	50,243	41,972	26,032	23,545	18,025	19,590
20%	13,765	15,847	36,152	56,012	60,934	51,777	38,496	27,859	20,410	22,708	17,588	17,116
30%	12,858	14,563	24,821	41,045	51,013	43,112	23,516	18,662	15,247	21,374	16,921	14,104
40%	11,766	13,576	18,406	30,911	43,446	33,804	20,554	15,293	13,924	20,443	16,605	13,660
50%	11,278	12,179	16,439	24,758	33,438	27,155	16,221	13,689	13,373	19,911	16,172	13,212
60%	10,626	11,177	15,011	19,442	24,695	22,066	13,316	12,101	12,691	19,645	15,692	12,776
70%	9,804	10,841	12,950	15,694	19,946	19,191	12,034	10,982	12,374	19,278	15,229	12,051
80%	9,000	9,642	11,585	13,339	14,885	15,383	11,232	10,131	11,721	17,257	13,450	11,043
90%	7,694	8,451	9,896	12,533	13,059	11,666	9,806	8,901	10,361	14,669	10,150	8,062
Long Term												
Full Simulation Period[a]	11,696	14,834	23,734	31,874	37,057	32,865	23,236	19,303	16,633	19,748	15,358	13,847
Water Year Types[b]												
Wet (32%)	13,583	19,472	39,674	50,800	57,222	49,436	37,854	32,064	24,106	20,096	15,965	18,351
Above Normal (15%)	11,200	15,357	21,658	39,719	45,570	44,531	26,041	21,138	16,526	21,793	16,021	13,297
Below Normal (17%)	11,642	12,633	16,695	23,705	31,864	24,520	17,823	14,366	13,793	21,176	15,792	12,522
Dry (22%)	10,366	12,920	15,471	17,397	21,179	20,684	13,066	11,093	12,451	19,498	17,113	12,250
Critical (15%)	10,161	9,703	11,879	14,265	14,732	13,300	10,325	7,897	10,133	15,656	10,242	8,580

Alternative 4 H1 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	15,198	20,787	49,127	66,716	70,748	62,101	45,725	33,975	23,997	24,341	18,021	13,793
20%	14,183	14,372	32,975	57,602	62,970	51,955	32,231	23,829	23,073	23,530	16,637	12,675
30%	13,554	12,455	21,754	38,957	50,153	41,290	22,629	19,492	20,924	21,911	15,073	12,096
40%	12,638	11,315	18,458	26,931	44,080	29,600	20,293	14,866	19,556	20,272	13,653	11,254
50%	11,965	10,628	16,660	22,600	29,965	24,425	15,723	13,633	17,568	18,551	12,846	10,792
60%	11,180	9,948	14,861	20,109	23,039	20,849	13,558	12,716	15,768	16,781	12,043	10,274
70%	10,948	9,391	13,529	17,286	20,875	18,664	12,616	11,554	13,956	14,909	11,271	9,862
80%	9,961	8,533	12,600	13,901	15,919	15,138	11,438	10,715	12,653	12,606	10,312	9,207
90%	8,182	7,487	9,458	12,322	12,387	11,770	10,683	8,682	10,894	10,237	8,469	8,037
Long Term												
Full Simulation Period[a]	12,033	12,898	23,067	32,013	37,355	32,040	22,326	17,632	17,994	18,062	13,303	11,138
Water Year Types[b]												
Wet (32%)	12,962	17,353	37,097	52,108	58,857	48,981	35,473	25,285	22,358	20,577	14,572	12,767
Above Normal (15%)	11,948	12,817	22,206	40,038	47,178	44,403	23,971	20,652	21,112	22,376	15,965	12,239
Below Normal (17%)	12,141	11,080	17,584	21,537	31,125	22,107	17,625	14,687	18,746	18,863	14,300	10,591
Dry (22%)	11,228	10,722	15,165	16,964	20,203	19,597	13,688	13,109	14,159	15,523	11,773	9,976
Critical (15%)	11,187	8,713	11,783	15,245	13,940	13,223	10,640	8,253	10,293	11,173	9,022	8,889

Alternative 4 H1 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-209	-3,640	-1,967	3,281	2,493	945	-4,517	-7,997	-2,035	796	-4	-5,797
20%	418	-1,475	-3,177	1,591	2,036	178	-6,265	-4,030	2,663	822	-950	-4,441
30%	696	-2,108	-3,067	-2,088	-860	-1,823	-887	830	5,677	537	-1,848	-2,008
40%	872	-2,261	53	-3,980	634	-4,203	-260	-427	5,631	-172	-2,952	-2,406
50%	687	-1,551	221	-2,158	-3,474	-2,730	-498	-56	4,195	-1,360	-3,326	-2,420
60%	553	-1,229	-150	667	-1,656	-1,217	242	616	3,077	-2,864	-3,649	-2,501
70%	1,144	-1,450	580	1,592	929	-527	582	572	1,582	-4,370	-3,958	-2,188
80%	961	-1,108	1,014	561	1,034	-245	206	584	933	-4,650	-3,138	-1,836
90%	488	-964	-438	-211	-673	104	877	-219	533	-4,432	-1,681	-25
Long Term												
Full Simulation Period[a]	337	-1,936	-666	139	297	-825	-909	-1,671	1,361	-1,686	-2,055	-2,709
Water Year Types[b]												
Wet (32%)	-622	-2,119	-2,577	1,308	1,635	-455	-2,381	-6,779	-1,748	481	-1,393	-5,584
Above Normal (15%)	748	-2,540	548	319	1,608	-128	-2,071	-486	4,586	583	-56	-1,058
Below Normal (17%)	499	-1,553	890	-2,168	-739	-2,413	-199	322	4,954	-2,313	-1,493	-1,931
Dry (22%)	862	-2,198	-306	-434	-976	-1,087	622	2,017	1,707	-3,976	-5,339	-2,273
Critical (15%)	1,027	-989	-96	980	-792	-77	315	355	160	-4,483	-1,220	309

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-20-6. Sacramento River at Freeport, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	15,407	24,427	51,094	63,434	68,256	61,156	50,243	41,972	26,032	23,545	18,025	19,590
20%	13,765	15,847	36,152	56,012	60,934	51,777	38,496	27,859	20,410	22,708	17,588	17,116
30%	12,858	14,563	24,821	41,045	51,013	43,112	23,516	18,662	15,247	21,374	16,921	14,104
40%	11,766	13,576	18,406	30,911	43,446	33,804	20,554	15,293	13,924	20,443	16,605	13,660
50%	11,278	12,179	16,439	24,758	33,438	27,155	16,221	13,689	13,373	19,911	16,172	13,212
60%	10,626	11,177	15,011	19,442	24,695	22,066	13,316	12,101	12,691	19,645	15,692	12,776
70%	9,804	10,841	12,950	15,694	19,946	19,191	12,034	10,982	12,374	19,278	15,229	12,051
80%	9,000	9,642	11,585	13,339	14,885	15,383	11,232	10,131	11,721	17,257	13,450	11,043
90%	7,694	8,451	9,896	12,533	13,059	11,666	9,806	8,901	10,361	14,669	10,150	8,062
Long Term												
Full Simulation Period[a]	11,696	14,834	23,734	31,874	37,057	32,865	23,236	19,303	16,633	19,748	15,358	13,847
Water Year Types[b]												
Wet (32%)	13,583	19,472	39,674	50,800	57,222	49,436	37,854	32,064	24,106	20,096	15,965	18,351
Above Normal (15%)	11,200	15,357	21,658	39,719	45,570	44,531	26,041	21,138	16,526	21,793	16,021	13,297
Below Normal (17%)	11,642	12,633	16,695	23,705	31,864	24,520	17,823	14,366	13,793	21,176	15,792	12,522
Dry (22%)	10,366	12,920	15,471	17,397	21,179	20,684	13,066	11,093	12,451	19,498	17,113	12,250
Critical (15%)	10,161	9,703	11,879	14,265	14,732	13,300	10,325	7,897	10,133	15,656	10,242	8,580

Alternative 4 H2 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	15,672	20,772	51,919	67,219	71,213	62,854	45,738	34,749	23,557	21,569	16,513	14,078
20%	14,470	14,318	33,163	56,499	62,853	51,907	33,342	23,812	17,896	20,970	15,552	12,978
30%	13,755	12,274	21,816	40,118	51,167	39,186	27,112	21,183	16,988	19,944	14,787	12,142
40%	12,788	11,202	18,599	28,748	43,701	29,908	24,786	17,393	15,612	18,412	14,192	11,428
50%	11,743	10,498	15,971	22,898	30,573	25,159	21,941	14,773	13,559	17,413	13,016	10,821
60%	10,905	10,067	14,494	19,402	22,918	20,720	15,990	12,646	12,812	16,758	12,359	10,343
70%	10,113	9,337	12,307	17,197	19,402	18,368	11,963	11,585	11,990	14,683	11,745	9,915
80%	9,388	8,482	10,597	14,327	15,343	15,135	11,132	10,453	11,428	13,341	10,313	9,534
90%	8,091	7,620	9,475	12,867	11,642	11,518	10,166	8,691	10,048	9,769	8,242	8,379
Long Term												
Full Simulation Period[a]	11,899	13,021	22,833	32,217	37,391	32,016	24,157	18,294	15,512	16,883	12,974	11,324
Water Year Types[b]												
Wet (32%)	12,818	17,616	38,057	51,968	58,557	49,060	38,231	27,313	19,096	18,497	13,412	12,833
Above Normal (15%)	11,875	12,760	20,875	40,391	47,418	43,707	27,350	21,792	15,914	18,727	15,187	11,497
Below Normal (17%)	11,634	11,313	16,764	22,091	31,778	22,458	21,256	14,564	15,910	17,942	14,136	11,355
Dry (22%)	10,852	10,765	14,619	17,458	20,151	19,656	13,197	12,578	13,511	15,939	12,564	10,243
Critical (15%)	11,814	8,702	11,210	15,204	13,913	13,088	10,292	8,182	9,885	11,725	9,072	9,468

Alternative 4 H2 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	265	-3,655	826	3,785	2,958	1,698	-4,504	-7,223	-2,474	-1,976	-1,511	-5,512
20%	705	-1,529	-2,988	487	1,919	130	-5,154	-4,047	-2,515	-1,737	-2,036	-4,137
30%	896	-2,289	-3,005	-927	154	-3,926	3,595	2,522	1,742	-1,430	-2,134	-1,962
40%	1,022	-2,374	193	-2,163	255	-3,896	4,232	2,100	1,688	-2,031	-2,413	-2,232
50%	465	-1,682	-468	-1,859	-2,866	-1,996	5,720	1,084	186	-2,498	-3,156	-2,391
60%	278	-1,109	-518	-41	-1,777	-1,346	2,674	546	121	-2,887	-3,333	-2,433
70%	309	-1,505	-642	1,503	-544	-823	-71	602	-384	-4,595	-3,484	-2,136
80%	388	-1,160	-989	987	458	-248	-100	322	-292	-3,916	-3,138	-1,508
90%	397	-831	-421	334	-1,417	-149	361	-210	-313	-4,900	-1,908	317
Long Term												
Full Simulation Period[a]	203	-1,814	-900	344	334	-849	921	-1,009	-1,120	-2,865	-2,384	-2,523
Water Year Types[b]												
Wet (32%)	-765	-1,856	-1,617	1,168	1,336	-376	377	-4,751	-5,010	-1,599	-2,552	-5,519
Above Normal (15%)	675	-2,597	-783	671	1,848	-825	1,309	655	-612	-3,066	-835	-1,800
Below Normal (17%)	-9	-1,321	69	-1,614	-86	-2,062	3,433	199	2,118	-3,235	-1,656	-1,166
Dry (22%)	486	-2,155	-852	61	-1,028	-1,028	131	1,486	1,059	-3,560	-4,549	-2,007
Critical (15%)	1,653	-1,001	-669	939	-819	-212	-32	284	-248	-3,931	-1,170	888

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-20-7. Sacramento River at Freeport, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	15,407	24,427	51,094	63,434	68,256	61,156	50,243	41,972	26,032	23,545	18,025	19,590
20%	13,765	15,847	36,152	56,012	60,934	51,777	38,496	27,859	20,410	22,708	17,588	17,116
30%	12,858	14,563	24,821	41,045	51,013	43,112	23,516	18,662	15,247	21,374	16,921	14,104
40%	11,766	13,576	18,406	30,911	43,446	33,804	20,554	15,293	13,924	20,443	16,605	13,660
50%	11,278	12,179	16,439	24,758	33,438	27,155	16,221	13,689	13,373	19,911	16,172	13,212
60%	10,626	11,177	15,011	19,442	24,695	22,066	13,316	12,101	12,691	19,645	15,692	12,776
70%	9,804	10,841	12,950	15,694	19,946	19,191	12,034	10,982	12,374	19,278	15,229	12,051
80%	9,000	9,642	11,585	13,339	14,885	15,383	11,232	10,131	11,721	17,257	13,450	11,043
90%	7,694	8,451	9,896	12,533	13,059	11,666	9,806	8,901	10,361	14,669	10,150	8,062
Long Term												
Full Simulation Period[a]	11,696	14,834	23,734	31,874	37,057	32,865	23,236	19,303	16,633	19,748	15,358	13,847
Water Year Types[b]												
Wet (32%)	13,583	19,472	39,674	50,800	57,222	49,436	37,854	32,064	24,106	20,096	15,965	18,351
Above Normal (15%)	11,200	15,357	21,658	39,719	45,570	44,531	26,041	21,138	16,526	21,793	16,021	13,297
Below Normal (17%)	11,642	12,633	16,695	23,705	31,864	24,520	17,823	14,366	13,793	21,176	15,792	12,522
Dry (22%)	10,366	12,920	15,471	17,397	21,179	20,684	13,066	11,093	12,451	19,498	17,113	12,250
Critical (15%)	10,161	9,703	11,879	14,265	14,732	13,300	10,325	7,897	10,133	15,656	10,242	8,580

Alternative 4 H3 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,961	20,481	47,114	65,109	70,478	62,099	45,720	33,673	24,086	24,135	17,696	27,249
20%	13,813	14,880	31,652	56,986	63,420	51,636	32,225	23,965	23,239	23,464	16,614	25,457
30%	13,113	14,515	20,790	39,247	48,812	39,937	22,611	20,088	21,190	21,769	14,502	22,253
40%	12,441	12,633	18,001	24,888	43,168	29,230	20,046	15,076	19,523	20,491	13,500	17,197
50%	11,859	11,952	15,874	21,948	30,009	23,697	16,021	13,530	17,586	18,805	12,375	12,310
60%	11,385	10,872	14,357	18,894	23,192	20,648	13,213	12,595	15,520	16,650	12,036	10,198
70%	10,858	9,812	13,603	15,758	19,264	18,403	12,191	11,809	13,276	14,532	11,385	9,426
80%	9,283	8,331	12,426	13,741	15,532	15,490	11,204	10,690	12,151	12,743	10,143	8,752
90%	8,158	7,141	9,440	12,471	12,363	11,464	10,699	8,674	10,941	10,389	8,373	7,775
Long Term												
Full Simulation Period[a]	11,862	13,483	22,156	31,296	37,070	31,666	22,231	17,669	17,959	18,084	13,157	15,923
Water Year Types[b]												
Wet (32%)	13,031	17,903	35,182	51,332	58,619	48,787	35,365	25,325	22,530	20,754	14,696	25,642
Above Normal (15%)	12,179	13,912	21,806	38,336	46,604	43,357	23,884	20,924	21,228	22,447	15,875	18,499
Below Normal (17%)	11,787	11,833	16,645	20,995	30,339	21,357	17,574	14,728	18,161	19,322	14,334	10,023
Dry (22%)	10,900	11,226	14,923	16,506	20,283	19,565	13,571	13,027	14,192	14,736	11,232	9,464
Critical (15%)	10,539	8,788	11,565	15,045	13,878	13,061	10,546	8,218	10,200	11,510	8,621	8,858

Alternative 4 H3 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-446	-3,946	-3,980	1,674	2,222	943	-4,523	-8,299	-1,945	590	-328	7,658
20%	48	-967	-4,500	975	2,486	-141	-6,271	-3,894	2,829	756	-974	8,341
30%	254	-47	-4,031	-1,798	-2,200	-3,175	-905	1,427	5,943	395	-2,419	8,149
40%	675	-942	-405	-6,023	-278	-4,574	-508	-217	5,599	48	-3,106	3,537
50%	581	-227	-565	-2,809	-3,430	-3,458	-200	-159	4,213	-1,106	-3,797	-902
60%	759	-304	-654	-548	-1,503	-1,418	-103	494	2,829	-2,995	-3,656	-2,577
70%	1,055	-1,029	654	64	-682	-789	158	827	901	-4,747	-3,844	-2,624
80%	283	-1,311	841	401	647	107	-28	559	430	-4,513	-3,307	-2,291
90%	464	-1,310	-456	-62	-697	-202	894	-227	580	-4,280	-1,778	-287
Long Term												
Full Simulation Period[a]	165	-1,351	-1,577	-578	12	-1,198	-1,004	-1,634	1,326	-1,664	-2,201	2,076
Water Year Types[b]												
Wet (32%)	-552	-1,570	-4,492	532	1,398	-649	-2,490	-6,739	-1,576	658	-1,268	7,291
Above Normal (15%)	979	-1,445	148	-1,383	1,034	-1,175	-2,157	-213	4,702	654	-146	5,202
Below Normal (17%)	145	-800	-50	-2,710	-1,525	-3,163	-249	363	4,369	-1,855	-1,458	-2,499
Dry (22%)	534	-1,694	-548	-891	-897	-1,120	505	1,934	1,741	-4,763	-5,881	-2,786
Critical (15%)	379	-914	-314	780	-854	-239	222	321	67	-4,146	-1,621	277

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-20-8. Sacramento River at Freeport, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	15,407	24,427	51,094	63,434	68,256	61,156	50,243	41,972	26,032	23,545	18,025	19,590
20%	13,765	15,847	36,152	56,012	60,934	51,777	38,496	27,859	20,410	22,708	17,588	17,116
30%	12,858	14,563	24,821	41,045	51,013	43,112	23,516	18,662	15,247	21,374	16,921	14,104
40%	11,766	13,576	18,406	30,911	43,446	33,804	20,554	15,293	13,924	20,443	16,605	13,660
50%	11,278	12,179	16,439	24,758	33,438	27,155	16,221	13,689	13,373	19,911	16,172	13,212
60%	10,626	11,177	15,011	19,442	24,695	22,066	13,316	12,101	12,691	19,645	15,692	12,776
70%	9,804	10,841	12,950	15,694	19,946	19,191	12,034	10,982	12,374	19,278	15,229	12,051
80%	9,000	9,642	11,585	13,339	14,885	15,383	11,232	10,131	11,721	17,257	13,450	11,043
90%	7,694	8,451	9,896	12,533	13,059	11,666	9,806	8,901	10,361	14,669	10,150	8,062
Long Term												
Full Simulation Period[a]	11,696	14,834	23,734	31,874	37,057	32,865	23,236	19,303	16,633	19,748	15,358	13,847
Water Year Types[b]												
Wet (32%)	13,583	19,472	39,674	50,800	57,222	49,436	37,854	32,064	24,106	20,096	15,965	18,351
Above Normal (15%)	11,200	15,357	21,658	39,719	45,570	44,531	26,041	21,138	16,526	21,793	16,021	13,297
Below Normal (17%)	11,642	12,633	16,695	23,705	31,864	24,520	17,823	14,366	13,793	21,176	15,792	12,522
Dry (22%)	10,366	12,920	15,471	17,397	21,179	20,684	13,066	11,093	12,451	19,498	17,113	12,250
Critical (15%)	10,161	9,703	11,879	14,265	14,732	13,300	10,325	7,897	10,133	15,656	10,242	8,580

Alternative 4 H4 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	15,410	20,944	47,438	67,221	70,508	62,106	45,739	34,855	23,192	22,505	16,574	27,439
20%	13,639	15,045	30,679	55,009	62,867	51,586	33,359	23,948	19,220	20,706	15,471	25,314
30%	12,689	14,279	21,411	39,278	49,309	38,274	27,392	21,194	16,329	19,935	14,768	22,585
40%	12,086	12,637	18,079	26,057	43,379	29,677	24,786	16,712	15,217	18,412	14,123	18,230
50%	11,478	11,899	15,660	21,106	30,512	24,141	21,764	14,076	13,846	17,320	13,159	13,333
60%	11,149	11,182	13,996	18,134	22,876	20,427	14,983	12,477	12,861	15,531	12,211	10,632
70%	10,430	9,727	13,217	14,663	18,943	18,049	11,937	11,560	11,960	14,119	11,496	9,413
80%	9,280	8,425	10,539	13,497	15,379	15,050	10,966	10,481	11,227	12,918	10,185	8,978
90%	8,103	7,619	9,061	12,111	11,698	11,513	10,231	8,664	9,970	10,393	8,267	8,190
Long Term												
Full Simulation Period[a]	11,685	13,591	22,039	30,916	37,051	31,662	24,076	18,163	15,494	16,880	12,893	16,338
Water Year Types[b]												
Wet (32%)	12,815	17,994	35,745	50,819	58,286	48,940	38,200	27,278	19,100	19,155	13,489	26,036
Above Normal (15%)	12,466	14,320	21,205	38,220	46,706	42,766	27,423	21,787	16,152	18,837	14,533	18,466
Below Normal (17%)	11,279	11,865	16,382	21,244	30,710	21,606	20,814	14,206	16,248	18,018	13,938	10,122
Dry (22%)	10,442	11,218	14,622	16,263	20,199	19,580	13,156	12,315	13,006	14,856	12,536	10,332
Critical (15%)	10,796	8,896	10,904	13,755	14,060	12,978	10,313	8,181	9,875	11,701	9,281	9,458

Alternative 4 H4 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3	-3,483	-3,656	3,787	2,252	950	-4,504	-7,117	-2,839	-1,040	-1,451	7,849
20%	-126	-801	-5,472	-1,003	1,933	-191	-5,137	-3,911	-1,190	-2,002	-2,117	8,198
30%	-169	-283	-3,410	-1,767	-1,704	-4,838	3,876	2,532	1,082	-1,440	-2,153	8,481
40%	320	-939	-326	-4,854	-66	-4,126	4,232	1,418	1,293	-2,032	-2,482	4,571
50%	200	-281	-779	-3,652	-2,926	-3,014	5,543	387	473	-2,590	-3,013	121
60%	522	5	-1,015	-1,308	-1,820	-1,639	1,667	377	169	-4,114	-3,481	-2,144
70%	626	-1,114	268	-1,030	-1,003	-1,143	-97	577	-415	-5,160	-3,733	-2,637
80%	280	-1,216	-1,046	158	494	-333	-266	350	-494	-4,339	-3,265	-2,065
90%	409	-832	-835	-422	-1,361	-153	426	-237	-391	-4,277	-1,884	128
Long Term												
Full Simulation Period[a]	-11	-1,243	-1,695	-957	-7	-1,203	840	-1,140	-1,139	-2,868	-2,465	2,491
Water Year Types[b]												
Wet (32%)	-769	-1,479	-3,929	19	1,065	-496	345	-4,786	-5,005	-941	-2,475	7,685
Above Normal (15%)	1,265	-1,037	-454	-1,499	1,137	-1,766	1,382	650	-374	-2,956	-1,488	5,170
Below Normal (17%)	-363	-768	-313	-2,461	-1,154	-2,914	2,991	-159	2,455	-3,158	-1,855	-2,400
Dry (22%)	76	-1,702	-849	-1,135	-980	-1,104	90	1,222	555	-4,642	-4,577	-1,917
Critical (15%)	635	-806	-975	-509	-672	-322	-11	284	-258	-3,955	-961	878

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-20-9. Sacramento River at Freeport, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	15,407	24,427	51,094	63,434	68,256	61,156	50,243	41,972	26,032	23,545	18,025	19,590
20%	13,765	15,847	36,152	56,012	60,934	51,777	38,496	27,859	20,410	22,708	17,588	17,116
30%	12,858	14,563	24,821	41,045	51,013	43,112	23,516	18,662	15,247	21,374	16,921	14,104
40%	11,766	13,576	18,406	30,911	43,446	33,804	20,554	15,293	13,924	20,443	16,605	13,660
50%	11,278	12,179	16,439	24,758	33,438	27,155	16,221	13,689	13,373	19,911	16,172	13,212
60%	10,626	11,177	15,011	19,442	24,695	22,066	13,316	12,101	12,691	19,645	15,692	12,776
70%	9,804	10,841	12,950	15,694	19,946	19,191	12,034	10,982	12,374	19,278	15,229	12,051
80%	9,000	9,642	11,585	13,339	14,885	15,383	11,232	10,131	11,721	17,257	13,450	11,043
90%	7,694	8,451	9,896	12,533	13,059	11,666	9,806	8,901	10,361	14,669	10,150	8,062
Long Term												
Full Simulation Period[a]	11,696	14,834	23,734	31,874	37,057	32,865	23,236	19,303	16,633	19,748	15,358	13,847
Water Year Types[b]												
Wet (32%)	13,583	19,472	39,674	50,800	57,222	49,436	37,854	32,064	24,106	20,096	15,965	18,351
Above Normal (15%)	11,200	15,357	21,658	39,719	45,570	44,531	26,041	21,138	16,526	21,793	16,021	13,297
Below Normal (17%)	11,642	12,633	16,695	23,705	31,864	24,520	17,823	14,366	13,793	21,176	15,792	12,522
Dry (22%)	10,366	12,920	15,471	17,397	21,179	20,684	13,066	11,093	12,451	19,498	17,113	12,250
Critical (15%)	10,161	9,703	11,879	14,265	14,732	13,300	10,325	7,897	10,133	15,656	10,242	8,580

Alternative 5 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	16,423	20,426	42,651	65,826	70,405	62,103	45,726	33,598	21,672	24,967	19,480	25,640
20%	13,936	15,239	31,184	56,662	63,633	51,679	32,228	21,995	19,507	24,171	17,127	24,196
30%	13,514	14,291	20,861	39,253	48,699	40,695	22,532	17,678	18,245	23,515	16,472	21,838
40%	13,087	13,200	17,779	25,057	41,782	29,523	19,892	13,843	17,439	22,763	15,157	15,808
50%	12,216	12,070	15,839	21,814	29,908	23,715	15,807	12,903	16,927	21,776	13,579	9,971
60%	11,550	11,468	14,646	19,227	23,118	20,550	13,377	12,172	15,969	19,938	12,254	9,171
70%	11,142	9,723	14,230	15,658	18,973	18,510	12,248	11,412	14,020	17,745	10,309	8,822
80%	9,021	8,338	12,557	13,491	15,432	15,136	11,168	10,297	12,300	15,009	8,557	8,126
90%	7,352	7,504	9,444	12,372	12,558	11,734	10,582	8,699	11,065	10,644	7,995	7,864
Long Term												
Full Simulation Period[a]	12,368	13,589	22,105	31,316	36,991	31,758	22,224	16,966	16,843	19,769	13,496	15,069
Water Year Types[b]												
Wet (32%)	13,226	18,126	34,936	51,769	58,589	48,942	35,380	24,745	21,205	22,270	15,273	24,772
Above Normal (15%)	12,818	13,979	21,907	38,009	46,235	43,566	23,841	19,722	18,566	22,781	17,168	17,004
Below Normal (17%)	13,608	11,624	16,460	21,346	29,752	21,449	17,405	13,329	16,802	21,739	15,216	9,413
Dry (22%)	10,828	11,486	15,422	16,303	20,605	19,540	13,437	12,686	13,943	17,527	10,688	8,526
Critical (15%)	10,922	8,815	11,112	14,456	13,975	13,072	10,907	8,020	10,065	12,402	8,182	8,525

Alternative 5 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,016	-4,001	-8,442	2,392	2,149	948	-4,517	-8,373	-4,360	1,422	1,455	6,050
20%	171	-608	-4,968	650	2,699	-98	-6,268	-5,864	-903	1,463	-461	7,080
30%	655	-272	-3,960	-1,792	-2,314	-2,417	-984	-984	2,999	2,141	-449	7,734
40%	1,321	-376	-627	-5,854	-1,664	-4,280	-662	-1,450	3,515	2,320	-1,449	2,148
50%	938	-109	-600	-2,943	-3,530	-3,440	-414	-785	3,554	1,866	-2,594	-3,241
60%	923	292	-366	-215	-1,577	-1,516	61	71	3,278	293	-3,438	-3,605
70%	1,338	-1,118	1,280	-35	-973	-681	214	430	1,646	-1,533	-4,920	-3,229
80%	21	-1,304	971	151	547	-247	-63	166	580	-2,247	-4,893	-2,917
90%	-342	-947	-452	-161	-502	68	776	-201	704	-4,026	-2,155	-198
Long Term												
Full Simulation Period[a]	672	-1,245	-1,629	-558	-67	-1,107	-1,011	-2,337	210	21	-1,862	1,222
Water Year Types[b]												
Wet (32%)	-357	-1,347	-4,738	969	1,367	-494	-2,474	-7,319	-2,901	2,174	-692	6,421
Above Normal (15%)	1,618	-1,378	249	-1,711	665	-965	-2,200	-1,416	2,040	988	1,146	3,707
Below Normal (17%)	1,966	-1,009	-235	-2,359	-2,113	-3,071	-418	-1,037	3,010	563	-576	-3,108
Dry (22%)	462	-1,434	-49	-1,094	-574	-1,144	371	1,593	1,492	-1,972	-6,424	-3,724
Critical (15%)	761	-887	-767	191	-757	-228	582	123	-68	-3,254	-2,060	-55

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-20-10. Sacramento River at Freeport, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	15,407	24,427	51,094	63,434	68,256	61,156	50,243	41,972	26,032	23,545	18,025	19,590
20%	13,765	15,847	36,152	56,012	60,934	51,777	38,496	27,859	20,410	22,708	17,588	17,116
30%	12,858	14,563	24,821	41,045	51,013	43,112	23,516	18,662	15,247	21,374	16,921	14,104
40%	11,766	13,576	18,406	30,911	43,446	33,804	20,554	15,293	13,924	20,443	16,605	13,660
50%	11,278	12,179	16,439	24,758	33,438	27,155	16,221	13,689	13,373	19,911	16,172	13,212
60%	10,626	11,177	15,011	19,442	24,695	22,066	13,316	12,101	12,691	19,645	15,692	12,776
70%	9,804	10,841	12,950	15,694	19,946	19,191	12,034	10,982	12,374	19,278	15,229	12,051
80%	9,000	9,642	11,585	13,339	14,885	15,383	11,232	10,131	11,721	17,257	13,450	11,043
90%	7,694	8,451	9,896	12,533	13,059	11,666	9,806	8,901	10,361	14,669	10,150	8,062
Long Term												
Full Simulation Period[a]	11,696	14,834	23,734	31,874	37,057	32,865	23,236	19,303	16,633	19,748	15,358	13,847
Water Year Types[b]												
Wet (32%)	13,583	19,472	39,674	50,800	57,222	49,436	37,854	32,064	24,106	20,096	15,965	18,351
Above Normal (15%)	11,200	15,357	21,658	39,719	45,570	44,531	26,041	21,138	16,526	21,793	16,021	13,297
Below Normal (17%)	11,642	12,633	16,695	23,705	31,864	24,520	17,823	14,366	13,793	21,176	15,792	12,522
Dry (22%)	10,366	12,920	15,471	17,397	21,179	20,684	13,066	11,093	12,451	19,498	17,113	12,250
Critical (15%)	10,161	9,703	11,879	14,265	14,732	13,300	10,325	7,897	10,133	15,656	10,242	8,580

Alternative 6A,6B,6C (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,248	20,539	48,721	65,721	70,551	62,324	45,765	33,924	23,991	22,340	17,965	23,764
20%	13,647	15,126	32,823	57,755	62,982	51,626	32,232	24,084	19,766	21,328	16,410	21,804
30%	12,834	14,304	21,494	41,143	49,329	41,875	22,539	18,416	16,098	20,196	15,266	18,551
40%	12,378	13,179	17,932	25,464	42,438	29,648	20,076	12,485	14,399	19,307	14,669	16,335
50%	11,717	11,965	15,615	21,976	30,185	24,226	15,363	11,704	12,847	18,352	14,009	14,449
60%	11,012	11,247	13,564	18,550	23,611	20,713	12,541	10,987	11,439	17,636	13,338	12,904
70%	10,234	10,628	11,689	14,751	18,816	18,406	11,299	10,233	10,955	15,814	12,953	11,676
80%	9,525	9,809	10,069	13,507	16,067	15,168	10,260	9,350	10,518	14,353	11,691	10,686
90%	8,029	8,465	8,712	11,793	12,193	10,976	9,359	8,172	9,226	13,339	11,071	10,216
Long Term												
Full Simulation Period[a]	11,504	13,931	21,993	31,468	37,295	31,868	21,725	16,729	15,017	18,003	14,234	15,583
Water Year Types[b]												
Wet (32%)	13,047	18,220	36,382	52,118	58,561	49,074	35,385	25,606	19,644	20,215	15,899	22,285
Above Normal (15%)	10,649	14,448	21,325	39,231	47,469	44,272	23,891	19,358	17,043	20,188	15,481	17,344
Below Normal (17%)	11,762	12,213	15,693	21,039	30,547	21,608	16,463	12,682	14,151	19,347	15,595	13,461
Dry (22%)	10,683	11,783	14,345	16,595	20,195	19,759	12,562	11,107	11,330	15,472	12,805	11,460
Critical (15%)	9,945	9,348	10,306	13,444	14,567	12,315	9,846	8,021	9,510	13,254	9,931	7,962

Alternative 6A,6B,6C (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,159	-3,888	-2,373	2,287	2,295	1,168	-4,478	-8,047	-2,041	-1,205	-60	4,174
20%	-118	-721	-3,329	1,743	2,048	-151	-6,264	-3,775	-644	-1,380	-1,177	4,688
30%	-24	-259	-3,327	97	-1,684	-1,238	-977	-246	852	-1,178	-1,655	4,447
40%	613	-397	-474	-5,447	-1,008	-4,156	-478	-2,808	475	-1,136	-1,937	2,676
50%	439	-214	-824	-2,781	-3,254	-2,928	-858	-1,985	-526	-1,559	-2,163	1,237
60%	386	70	-1,447	-893	-1,084	-1,353	-774	-1,114	-1,252	-2,010	-2,354	128
70%	430	-214	-1,261	-943	-1,130	-785	-734	-750	-1,419	-3,464	-2,276	-375
80%	525	168	-1,517	168	1,182	-215	-972	-781	-1,203	-2,904	-1,759	-357
90%	335	15	-1,184	-740	-867	-690	-447	-728	-1,135	-1,330	921	2,154
Long Term												
Full Simulation Period[a]	-192	-903	-1,741	-405	238	-997	-1,511	-2,574	-1,615	-1,745	-1,125	1,736
Water Year Types[b]												
Wet (32%)	-537	-1,252	-3,292	1,318	1,340	-362	-2,469	-6,459	-4,462	119	-65	3,934
Above Normal (15%)	-551	-909	-333	-489	1,899	-259	-2,151	-1,780	517	-1,605	-540	4,048
Below Normal (17%)	120	-420	-1,002	-2,666	-1,317	-2,913	-1,360	-1,683	358	-1,829	-198	939
Dry (22%)	317	-1,137	-1,126	-803	-984	-925	-504	15	-1,121	-4,026	-4,308	-790
Critical (15%)	-216	-355	-1,573	-821	-164	-985	-478	124	-623	-2,402	-311	-619

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-20-11. Sacramento River at Freeport, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	15,407	24,427	51,094	63,434	68,256	61,156	50,243	41,972	26,032	23,545	18,025	19,590
20%	13,765	15,847	36,152	56,012	60,934	51,777	38,496	27,859	20,410	22,708	17,588	17,116
30%	12,858	14,563	24,821	41,045	51,013	43,112	23,516	18,662	15,247	21,374	16,921	14,104
40%	11,766	13,576	18,406	30,911	43,446	33,804	20,554	15,293	13,924	20,443	16,605	13,660
50%	11,278	12,179	16,439	24,758	33,438	27,155	16,221	13,689	13,373	19,911	16,172	13,212
60%	10,626	11,177	15,011	19,442	24,695	22,066	13,316	12,101	12,691	19,645	15,692	12,776
70%	9,804	10,841	12,950	15,694	19,946	19,191	12,034	10,982	12,374	19,278	15,229	12,051
80%	9,000	9,642	11,585	13,339	14,885	15,383	11,232	10,131	11,721	17,257	13,450	11,043
90%	7,694	8,451	9,896	12,533	13,059	11,666	9,806	8,901	10,361	14,669	10,150	8,062
Long Term												
Full Simulation Period[a]	11,696	14,834	23,734	31,874	37,057	32,865	23,236	19,303	16,633	19,748	15,358	13,847
Water Year Types[b]												
Wet (32%)	13,583	19,472	39,674	50,800	57,222	49,436	37,854	32,064	24,106	20,096	15,965	18,351
Above Normal (15%)	11,200	15,357	21,658	39,719	45,570	44,531	26,041	21,138	16,526	21,793	16,021	13,297
Below Normal (17%)	11,642	12,633	16,695	23,705	31,864	24,520	17,823	14,366	13,793	21,176	15,792	12,522
Dry (22%)	10,366	12,920	15,471	17,397	21,179	20,684	13,066	11,093	12,451	19,498	17,113	12,250
Critical (15%)	10,161	9,703	11,879	14,265	14,732	13,300	10,325	7,897	10,133	15,656	10,242	8,580

Alternative 7 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,436	21,019	45,610	65,541	70,560	61,667	48,185	34,046	22,031	24,726	18,765	26,931
20%	13,582	15,368	30,819	56,370	62,669	50,423	34,422	23,354	19,386	23,604	16,848	25,746
30%	13,262	14,293	21,123	38,986	48,337	39,062	22,818	18,185	17,921	22,279	15,461	21,065
40%	12,988	13,367	17,763	24,901	41,493	28,854	20,315	12,432	16,558	21,580	14,060	17,462
50%	12,452	12,096	15,502	21,882	28,971	24,267	14,863	11,465	14,912	19,487	13,107	11,264
60%	11,967	11,229	13,650	18,957	22,871	20,369	12,237	11,095	12,703	18,139	12,459	9,937
70%	11,308	10,563	11,813	14,713	18,722	18,575	11,339	10,334	11,900	16,343	12,088	9,206
80%	10,520	9,902	10,017	13,371	16,103	15,231	10,344	9,360	11,637	14,805	10,755	8,464
90%	8,705	8,933	8,896	11,866	12,206	11,058	9,435	8,802	11,540	12,905	10,626	7,518
Long Term												
Full Simulation Period[a]	12,115	13,994	21,526	30,996	36,912	31,397	22,100	16,749	16,160	19,159	14,032	15,687
Water Year Types[b]												
Wet (32%)	13,516	18,293	35,223	51,333	58,112	48,339	36,461	25,163	20,835	20,939	14,815	25,710
Above Normal (15%)	11,862	14,482	20,752	38,447	46,605	42,752	24,205	20,047	18,722	22,566	15,977	18,055
Below Normal (17%)	11,851	12,328	15,665	20,868	30,100	21,898	16,486	12,382	14,669	21,037	16,125	10,256
Dry (22%)	11,415	11,808	14,200	16,201	20,066	19,402	12,443	10,884	11,997	17,127	12,215	9,112
Critical (15%)	10,691	9,413	10,447	13,489	14,502	12,413	9,917	9,114	11,454	12,754	10,674	7,801

Alternative 7 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-971	-3,408	-5,483	2,106	2,305	511	-2,058	-7,926	-4,001	1,181	740	7,341
20%	-183	-479	-5,332	358	1,735	-1,354	-4,074	-4,505	-1,024	896	-740	8,630
30%	403	-269	-3,697	-2,059	-2,676	-4,050	-698	-477	2,675	904	-1,460	6,961
40%	1,222	-208	-643	-6,009	-1,953	-4,950	-239	-2,862	2,634	1,136	-2,545	3,803
50%	1,173	-83	-938	-2,876	-4,467	-2,888	-1,358	-2,223	1,539	-424	-3,065	-1,948
60%	1,340	53	-1,361	-485	-1,825	-1,697	-1,079	-1,006	11	-1,506	-3,233	-2,838
70%	1,504	-278	-1,136	-980	-1,225	-616	-695	-648	-474	-2,936	-3,141	-2,844
80%	1,520	260	-1,569	31	1,218	-152	-888	-771	-83	-2,452	-2,695	-2,579
90%	1,011	482	-1,000	-667	-854	-608	-370	-99	1,179	-1,764	476	-544
Long Term												
Full Simulation Period[a]	419	-841	-2,208	-878	-146	-1,467	-1,135	-2,554	-473	-588	-1,326	1,840
Water Year Types[b]												
Wet (32%)	-67	-1,179	-4,451	533	890	-1,098	-1,394	-6,901	-3,271	843	-1,150	7,358
Above Normal (15%)	662	-875	-906	-1,272	1,035	-1,779	-1,836	-1,091	2,196	773	-44	4,759
Below Normal (17%)	209	-305	-1,030	-2,837	-1,764	-2,622	-1,337	-1,984	877	-139	332	-2,265
Dry (22%)	1,049	-1,112	-1,271	-1,196	-1,114	-1,283	-623	-208	-454	-2,371	-4,898	-3,138
Critical (15%)	530	-290	-1,432	-776	-230	-887	-408	1,217	1,320	-2,902	432	-779

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-20-12. Sacramento River at Freeport, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	15,407	24,427	51,094	63,434	68,256	61,156	50,243	41,972	26,032	23,545	18,025	19,590
20%	13,765	15,847	36,152	56,012	60,934	51,777	38,496	27,859	20,410	22,708	17,588	17,116
30%	12,858	14,563	24,821	41,045	51,013	43,112	23,516	18,662	15,247	21,374	16,921	14,104
40%	11,766	13,576	18,406	30,911	43,446	33,804	20,554	15,293	13,924	20,443	16,605	13,660
50%	11,278	12,179	16,439	24,758	33,438	27,155	16,221	13,689	13,373	19,911	16,172	13,212
60%	10,626	11,177	15,011	19,442	24,695	22,066	13,316	12,101	12,691	19,645	15,692	12,776
70%	9,804	10,841	12,950	15,694	19,946	19,191	12,034	10,982	12,374	19,278	15,229	12,051
80%	9,000	9,642	11,585	13,339	14,885	15,383	11,232	10,131	11,721	17,257	13,450	11,043
90%	7,694	8,451	9,896	12,533	13,059	11,666	9,806	8,901	10,361	14,669	10,150	8,062
Long Term												
Full Simulation Period[a]	11,696	14,834	23,734	31,874	37,057	32,865	23,236	19,303	16,633	19,748	15,358	13,847
Water Year Types[b]												
Wet (32%)	13,583	19,472	39,674	50,800	57,222	49,436	37,854	32,064	24,106	20,096	15,965	18,351
Above Normal (15%)	11,200	15,357	21,658	39,719	45,570	44,531	26,041	21,138	16,526	21,793	16,021	13,297
Below Normal (17%)	11,642	12,633	16,695	23,705	31,864	24,520	17,823	14,366	13,793	21,176	15,792	12,522
Dry (22%)	10,366	12,920	15,471	17,397	21,179	20,684	13,066	11,093	12,451	19,498	17,113	12,250
Critical (15%)	10,161	9,703	11,879	14,265	14,732	13,300	10,325	7,897	10,133	15,656	10,242	8,580

Alternative 8 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	12,944	20,278	47,771	67,478	70,333	64,268	52,494	36,887	24,492	14,838	11,095	22,278
20%	11,467	14,451	29,565	55,555	63,319	49,960	39,610	28,200	19,242	13,901	11,016	21,316
30%	10,433	13,656	21,064	41,194	50,361	40,153	30,786	25,387	16,012	13,493	10,972	18,581
40%	10,096	12,050	17,875	27,985	42,696	31,521	26,592	21,043	13,871	12,640	10,891	15,300
50%	9,553	11,436	15,264	23,869	32,123	27,299	24,549	19,122	12,517	12,113	10,710	9,180
60%	8,964	10,345	13,487	19,652	25,384	23,554	19,792	15,427	11,687	11,795	10,598	8,610
70%	8,428	9,637	11,507	16,009	22,220	21,656	17,684	13,707	11,502	11,263	10,510	8,086
80%	7,480	9,051	9,915	13,494	18,566	18,736	15,189	11,413	11,179	10,696	10,256	7,553
90%	6,025	7,798	8,360	11,416	12,576	14,396	12,107	9,253	10,566	10,362	8,898	7,390
Long Term												
Full Simulation Period[a]	9,754	13,185	21,476	32,416	38,562	33,712	27,679	21,256	15,406	12,580	10,479	13,294
Water Year Types[b]												
Wet (32%)	11,175	17,570	35,775	52,529	58,337	49,003	40,703	30,688	20,996	14,562	11,206	21,602
Above Normal (15%)	10,491	13,646	19,870	41,122	48,582	43,813	31,108	24,790	16,504	12,704	10,742	15,068
Below Normal (17%)	9,230	11,259	15,630	23,391	32,442	25,232	25,735	19,253	13,301	11,376	9,970	8,615
Dry (22%)	8,893	11,208	13,963	17,073	23,461	24,175	18,683	14,075	11,136	11,703	10,430	7,970
Critical (15%)	7,842	8,433	10,193	13,674	15,490	14,676	11,791	10,391	11,059	10,884	9,312	6,965

Alternative 8 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-2,463	-4,149	-3,323	4,044	2,077	3,113	2,252	-5,085	-1,539	-8,707	-6,930	2,687
20%	-2,298	-1,396	-6,587	-457	2,386	-1,818	1,114	340	-1,168	-8,807	-6,572	4,200
30%	-2,425	-907	-3,757	148	-652	-2,959	7,270	6,725	765	-7,881	-5,949	4,477
40%	-1,670	-1,526	-530	-2,925	-749	-2,283	6,038	5,750	-53	-7,804	-5,714	1,640
50%	-1,725	-743	-1,175	-888	-1,316	145	8,328	5,433	-857	-7,797	-5,462	-4,032
60%	-1,663	-832	-1,524	210	689	1,488	6,476	3,326	-1,004	-7,850	-5,094	-4,166
70%	-1,376	-1,204	-1,443	315	2,274	2,464	5,651	2,724	-872	-8,016	-4,719	-3,965
80%	-1,520	-591	-1,670	155	3,681	3,354	3,957	1,282	-542	-6,561	-3,194	-3,490
90%	-1,669	-652	-1,536	-1,116	-484	2,730	2,301	352	205	-4,307	-1,252	-672
Long Term												
Full Simulation Period[a]	-1,942	-1,650	-2,257	542	1,505	847	4,443	1,952	-1,226	-7,168	-4,879	-553
Water Year Types[b]												
Wet (32%)	-2,409	-1,902	-3,899	1,729	1,115	-433	2,849	-1,376	-3,110	-5,534	-4,759	3,250
Above Normal (15%)	-709	-1,711	-1,788	1,403	3,013	-719	5,067	3,652	-22	-9,089	-5,279	1,772
Below Normal (17%)	-2,412	-1,375	-1,064	-314	577	712	7,912	4,888	-491	-9,801	-5,823	-3,907
Dry (22%)	-1,472	-1,712	-1,508	-324	2,282	3,490	5,617	2,983	-1,315	-7,795	-6,683	-4,279
Critical (15%)	-2,319	-1,269	-1,686	-591	758	1,376	1,467	2,493	926	-4,772	-930	-1,615

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-20-13. Sacramento River at Freeport, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	15,407	24,427	51,094	63,434	68,256	61,156	50,243	41,972	26,032	23,545	18,025	19,590
20%	13,765	15,847	36,152	56,012	60,934	51,777	38,496	27,859	20,410	22,708	17,588	17,116
30%	12,858	14,563	24,821	41,045	51,013	43,112	23,516	18,662	15,247	21,374	16,921	14,104
40%	11,766	13,576	18,406	30,911	43,446	33,804	20,554	15,293	13,924	20,443	16,605	13,660
50%	11,278	12,179	16,439	24,758	33,438	27,155	16,221	13,689	13,373	19,911	16,172	13,212
60%	10,626	11,177	15,011	19,442	24,695	22,066	13,316	12,101	12,691	19,645	15,692	12,776
70%	9,804	10,841	12,950	15,694	19,946	19,191	12,034	10,982	12,374	19,278	15,229	12,051
80%	9,000	9,642	11,585	13,339	14,885	15,383	11,232	10,131	11,721	17,257	13,450	11,043
90%	7,694	8,451	9,896	12,533	13,059	11,666	9,806	8,901	10,361	14,669	10,150	8,062
Long Term												
Full Simulation Period[a]	11,696	14,834	23,734	31,874	37,057	32,865	23,236	19,303	16,633	19,748	15,358	13,847
Water Year Types[b]												
Wet (32%)	13,583	19,472	39,674	50,800	57,222	49,436	37,854	32,064	24,106	20,096	15,965	18,351
Above Normal (15%)	11,200	15,357	21,658	39,719	45,570	44,531	26,041	21,138	16,526	21,793	16,021	13,297
Below Normal (17%)	11,642	12,633	16,695	23,705	31,864	24,520	17,823	14,366	13,793	21,176	15,792	12,522
Dry (22%)	10,366	12,920	15,471	17,397	21,179	20,684	13,066	11,093	12,451	19,498	17,113	12,250
Critical (15%)	10,161	9,703	11,879	14,265	14,732	13,300	10,325	7,897	10,133	15,656	10,242	8,580

Alternative 9 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,971	21,250	46,631	65,975	70,337	62,152	45,743	33,879	18,050	24,766	17,338	30,812
20%	13,669	18,293	30,250	56,489	62,985	51,614	32,231	22,007	16,893	23,064	16,990	27,631
30%	12,762	16,764	20,955	38,859	49,011	39,372	22,730	17,566	15,447	21,695	16,727	23,592
40%	12,072	15,088	17,595	24,917	42,115	29,448	19,888	15,709	14,848	20,852	16,351	21,265
50%	11,054	14,229	15,386	21,480	30,823	23,761	15,964	14,420	14,067	19,258	15,907	13,301
60%	9,277	11,553	14,421	18,142	22,899	20,707	13,091	13,101	13,674	18,136	14,947	11,623
70%	8,857	10,096	13,536	14,656	18,541	18,248	12,134	11,880	13,066	16,944	13,794	8,949
80%	8,033	9,345	11,065	13,442	15,309	15,079	11,342	11,108	11,745	14,376	12,128	8,000
90%	7,141	7,979	9,476	11,743	11,747	11,470	10,658	8,401	10,762	12,358	9,880	7,675
Long Term												
Full Simulation Period[a]	11,040	14,857	22,056	30,981	36,798	31,589	22,161	17,586	15,056	18,977	14,717	17,115
Water Year Types[b]												
Wet (32%)	12,995	19,211	35,156	51,122	58,235	48,936	35,382	24,818	18,763	21,110	16,002	28,313
Above Normal (15%)	10,443	15,739	21,664	38,328	46,159	42,570	23,827	19,159	16,516	22,429	16,923	21,040
Below Normal (17%)	10,675	13,731	16,471	21,200	29,871	21,639	16,992	14,326	13,812	19,261	15,909	12,595
Dry (22%)	10,395	12,232	14,908	16,238	20,219	19,500	13,796	14,479	12,997	17,207	13,565	8,486
Critical (15%)	8,797	9,794	11,306	13,523	13,939	12,767	10,428	8,806	10,102	13,225	10,063	7,147

Alternative 9 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-436**	**-3,177**	**-4,463**	2,540	2,081	996	**-4,500**	**-8,093**	**-7,981**	1,221	**-687**	11,222
20%	**-96**	2,446	**-5,902**	478	2,051	**-163**	**-6,265**	**-5,852**	**-3,518**	356	**-598**	10,515
30%	**-96**	2,201	**-3,866**	**-2,187**	**-2,001**	**-3,740**	**-787**	**-1,096**	200	321	**-194**	9,488
40%	306	1,512	**-810**	**-5,994**	**-1,330**	**-4,356**	**-666**	416	924	408	**-254**	7,606
50%	**-224**	2,050	**-1,053**	**-3,278**	**-2,615**	**-3,393**	**-257**	732	694	**-653**	**-265**	89
60%	**-1,349**	376	**-590**	**-1,301**	**-1,796**	**-1,359**	**-225**	1,000	983	**-1,509**	**-745**	**-1,153**
70%	**-947**	**-745**	587	**-1,038**	**-1,406**	**-943**	100	898	692	**-2,334**	**-1,435**	**-3,102**
80%	**-967**	**-297**	**-520**	103	424	**-304**	110	977	24	**-2,881**	**-1,323**	**-3,043**
90%	**-553**	**-472**	**-420**	**-790**	**-1,313**	**-196**	852	**-500**	401	**-2,311**	**-270**	**-387**
Long Term												
Full Simulation Period[a]	**-656**	23	**-1,677**	**-892**	**-260**	**-1,275**	**-1,075**	**-1,718**	**-1,577**	**-771**	**-641**	3,268
Water Year Types[b]												
Wet (32%)	**-589**	**-261**	**-4,518**	322	1,013	**-500**	**-2,472**	**-7,246**	**-5,343**	1,014	38	9,962
Above Normal (15%)	**-757**	382	6	**-1,392**	589	**-1,962**	**-2,214**	**-1,979**	**-10**	636	902	7,743
Below Normal (17%)	**-967**	1,098	**-224**	**-2,505**	**-1,994**	**-2,881**	**-831**	**-40**	20	**-1,915**	116	73
Dry (22%)	29	**-688**	**-563**	**-1,159**	**-960**	**-1,184**	730	3,386	546	**-2,291**	**-3,547**	**-3,764**
Critical (15%)	**-1,363**	92	**-574**	**-742**	**-793**	**-533**	103	908	**-31**	**-2,431**	**-179**	**-1,433**

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-20-14. Sacramento River at Freeport, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,520	20,933	48,723	65,933	70,538	64,077	49,290	34,057	18,835	24,508	18,024	29,045
20%	13,547	17,929	34,308	58,498	65,197	55,065	37,063	22,075	16,545	24,006	17,293	26,992
30%	13,136	16,559	22,188	40,921	51,209	43,781	23,035	15,989	15,632	23,370	16,788	23,595
40%	12,921	15,186	18,361	27,468	44,426	32,715	20,117	12,751	14,648	22,549	16,393	21,918
50%	12,316	14,012	15,967	22,991	34,267	25,193	15,145	12,049	13,752	21,553	15,960	12,912
60%	11,349	12,014	14,434	20,308	24,198	21,452	12,276	11,371	13,439	20,296	15,441	10,782
70%	10,225	9,917	13,741	17,513	18,833	18,890	11,546	11,024	12,865	18,346	14,345	9,219
80%	9,117	8,522	11,963	13,741	15,997	15,259	11,288	9,850	12,103	16,208	13,211	8,105
90%	7,641	7,513	9,061	12,265	12,542	11,743	10,225	8,840	11,110	12,429	9,280	7,714
Long Term												
Full Simulation Period[a]	11,857	14,692	22,789	32,496	38,028	33,164	22,892	16,422	15,098	20,020	15,039	16,857
Water Year Types[b]												
Wet (32%)	13,355	19,308	36,987	52,716	59,754	51,011	37,588	24,615	18,807	21,644	16,212	27,309
Above Normal (15%)	11,937	15,972	22,622	40,339	47,678	45,122	24,993	18,772	16,266	22,945	17,635	21,102
Below Normal (17%)	12,208	13,094	16,708	22,575	31,522	22,944	17,199	12,531	14,112	20,734	16,382	12,399
Dry (22%)	10,572	11,964	15,185	17,404	21,083	20,677	12,978	11,558	12,882	19,182	14,498	8,713
Critical (15%)	10,051	9,364	10,694	15,056	14,311	13,190	10,460	8,156	10,369	14,003	9,143	7,386

Alternative 1A,1B,1C (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	20,340	21,034	47,760	65,296	70,682	62,082	45,731	33,600	24,588	21,645	16,737	13,391
20%	18,413	14,880	32,703	56,741	62,850	51,830	32,224	24,385	21,263	20,254	13,492	12,545
30%	16,703	12,534	22,382	38,865	49,590	40,847	22,685	21,296	19,449	19,029	12,773	11,767
40%	15,299	11,470	19,095	26,788	42,849	29,594	20,131	16,924	18,147	18,334	12,532	11,117
50%	13,995	10,597	17,349	22,707	29,745	24,660	16,484	14,084	17,467	16,710	11,976	10,414
60%	13,062	10,051	15,613	20,188	23,083	21,021	15,005	13,294	15,500	15,171	11,485	10,008
70%	11,281	9,549	14,538	17,298	19,504	19,194	13,914	12,381	12,976	13,931	10,941	9,708
80%	9,150	8,407	12,764	14,430	15,928	15,413	11,905	11,320	12,191	10,982	8,771	8,753
90%	7,356	8,068	9,476	12,796	12,624	11,716	11,259	8,968	10,903	9,809	7,935	7,781
Long Term												
Full Simulation Period[a]	14,207	13,097	23,302	32,064	37,516	32,007	22,893	18,249	17,450	16,175	12,129	10,771
Water Year Types[b]												
Wet (32%)	14,818	18,020	37,003	52,200	58,768	49,080	35,506	26,025	22,045	18,771	13,872	12,559
Above Normal (15%)	13,949	12,465	23,374	39,622	47,480	43,857	24,559	21,394	20,886	19,431	14,508	11,879
Below Normal (17%)	14,747	11,042	17,559	22,332	30,958	22,201	18,500	15,868	17,320	16,073	11,947	10,170
Dry (22%)	13,210	10,821	15,551	17,780	20,593	19,711	14,866	13,421	13,458	13,530	10,721	9,427
Critical (15%)	14,008	8,877	11,872	13,659	14,543	13,047	11,061	8,275	10,195	11,383	8,299	8,507

Alternative 1A,1B,1C (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5,820	101	-962	-637	144	-1,994	-3,558	-456	5,753	-2,863	-1,288	-15,654
20%	4,866	-3,049	-1,605	-1,757	-2,347	-3,235	-4,839	2,311	4,718	-3,752	-3,802	-14,447
30%	3,567	-4,025	194	-2,056	-1,619	-2,934	-349	5,307	3,817	-4,341	-4,016	-11,828
40%	2,378	-3,716	734	-680	-1,577	-3,121	14	4,174	3,498	-4,215	-3,861	-10,801
50%	1,679	-3,415	1,382	-284	-4,522	-533	1,339	2,035	3,715	-4,842	-3,983	-2,498
60%	1,713	-1,964	1,178	-121	-1,115	-432	2,729	1,924	2,062	-5,125	-3,956	-773
70%	1,056	-367	797	-215	671	303	2,368	1,357	112	-4,415	-3,404	489
80%	33	-115	801	688	-68	155	617	1,471	88	-5,226	-4,440	648
90%	-285	555	415	531	82	-27	1,034	128	-206	-2,620	-1,346	67
Long Term												
Full Simulation Period[a]	2,350	-1,594	513	-432	-511	-1,157	1	1,827	2,352	-3,845	-2,910	-6,086
Water Year Types[b]												
Wet (32%)	1,462	-1,288	16	-516	-985	-1,931	-2,082	1,411	3,238	-2,873	-2,340	-14,749
Above Normal (15%)	2,012	-3,507	752	-717	-199	-1,265	-434	2,623	4,620	-3,514	-3,128	-9,224
Below Normal (17%)	2,539	-2,052	851	-243	-564	-743	1,300	3,337	3,208	-4,661	-4,435	-2,229
Dry (22%)	2,638	-1,143	366	376	-490	-966	1,888	1,863	577	-5,651	-3,777	713
Critical (15%)	3,957	-487	1,178	-1,396	232	-143	602	119	-173	-2,620	-845	1,120

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-20-15. Sacramento River at Freeport, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,520	20,933	48,723	65,933	70,538	64,077	49,290	34,057	18,835	24,508	18,024	29,045
20%	13,547	17,929	34,308	58,498	65,197	55,065	37,063	22,075	16,545	24,006	17,293	26,992
30%	13,136	16,559	22,188	40,921	51,209	43,781	23,035	15,989	15,632	23,370	16,788	23,595
40%	12,921	15,186	18,361	27,468	44,426	32,715	20,117	12,751	14,648	22,549	16,393	21,918
50%	12,316	14,012	15,967	22,991	34,267	25,193	15,145	12,049	13,752	21,553	15,960	12,912
60%	11,349	12,014	14,434	20,308	24,198	21,452	12,276	11,371	13,439	20,296	15,441	10,782
70%	10,225	9,917	13,741	17,513	18,833	18,890	11,546	11,024	12,865	18,346	14,345	9,219
80%	9,117	8,522	11,963	13,741	15,997	15,259	11,288	9,850	12,103	16,208	13,211	8,105
90%	7,641	7,513	9,061	12,265	12,542	11,743	10,225	8,840	11,110	12,429	9,280	7,714
Long Term												
Full Simulation Period[a]	11,857	14,692	22,789	32,496	38,028	33,164	22,892	16,422	15,098	20,020	15,039	16,857
Water Year Types[b]												
Wet (32%)	13,355	19,308	36,987	52,716	59,754	51,011	37,588	24,615	18,807	21,644	16,212	27,309
Above Normal (15%)	11,937	15,972	22,622	40,339	47,678	45,122	24,993	18,772	16,266	22,945	17,635	21,102
Below Normal (17%)	12,208	13,094	16,708	22,575	31,522	22,944	17,199	12,531	14,112	20,734	16,382	12,399
Dry (22%)	10,572	11,964	15,185	17,404	21,083	20,677	12,978	11,558	12,882	19,182	14,498	8,713
Critical (15%)	10,051	9,364	10,694	15,056	14,311	13,190	10,460	8,156	10,369	14,003	9,143	7,386

Alternative 2A,2B,2C (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	15,329	20,521	47,093	65,751	70,480	62,102	45,723	33,766	26,146	23,599	17,034	27,385
20%	14,103	14,938	31,715	57,071	63,367	51,625	32,226	25,077	24,050	21,589	15,609	25,332
30%	13,492	14,334	20,729	39,259	48,132	40,018	22,587	20,974	21,963	20,662	13,742	21,402
40%	12,518	12,432	17,982	24,874	43,253	29,339	20,009	15,453	20,064	19,339	13,135	17,808
50%	11,989	11,681	15,911	21,503	29,895	23,879	16,072	13,892	17,689	18,353	12,498	12,048
60%	11,435	10,813	14,435	18,653	23,144	20,658	13,182	12,714	14,869	16,651	11,772	9,774
70%	11,073	9,909	13,661	15,558	19,273	18,515	12,551	11,984	13,052	14,936	11,285	9,362
80%	10,341	8,416	13,010	13,481	15,509	15,138	11,352	10,704	12,072	12,470	10,083	8,735
90%	8,140	7,147	9,496	12,271	12,368	11,528	10,738	8,675	10,900	10,619	8,402	7,735
Long Term												
Full Simulation Period[a]	12,087	13,473	22,262	31,213	37,033	31,776	22,291	17,987	18,231	17,467	12,760	15,848
Water Year Types[b]												
Wet (32%)	13,106	17,851	35,233	51,256	58,565	48,817	35,407	25,740	22,965	19,540	14,201	25,707
Above Normal (15%)	12,435	13,961	21,762	38,377	46,389	43,732	23,870	21,423	22,521	21,426	15,046	18,661
Below Normal (17%)	11,695	11,659	17,284	20,973	30,425	21,494	17,557	15,074	18,082	18,760	13,702	9,640
Dry (22%)	11,338	11,226	15,038	16,610	20,268	19,618	13,756	13,275	13,960	14,466	11,060	9,270
Critical (15%)	11,109	8,986	11,300	14,476	13,879	13,129	10,623	8,222	10,261	12,007	8,804	8,785

Alternative 2A,2B,2C (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	809	-411	-1,630	-182	-59	-1,974	-3,567	-291	7,311	-909	-991	-1,661
20%	556	-2,991	-2,593	-1,428	-1,830	-3,440	-4,837	3,002	7,505	-2,416	-1,684	-1,660
30%	356	-2,224	-1,459	-1,662	-3,077	-3,763	-448	4,985	6,330	-2,708	-3,046	-2,194
40%	-402	-2,754	-379	-2,594	-1,172	-3,377	-108	2,703	5,416	-3,210	-3,258	-4,110
50%	-327	-2,331	-56	-1,488	-4,372	-1,314	927	1,843	3,937	-3,200	-3,462	-864
60%	85	-1,201	1	-1,656	-1,054	-794	906	1,344	1,430	-3,645	-3,668	-1,008
70%	848	-8	-80	-1,955	440	-375	1,005	960	187	-3,411	-3,060	143
80%	1,224	-106	1,047	-260	-488	-121	63	855	-30	-3,738	-3,128	630
90%	499	-367	435	6	-175	-215	513	-165	-210	-1,810	-878	21
Long Term												
Full Simulation Period[a]	229	-1,219	-527	-1,283	-995	-1,388	-600	1,566	3,132	-2,554	-2,278	-1,009
Water Year Types[b]												
Wet (32%)	-249	-1,457	-1,754	-1,460	-1,189	-2,194	-2,181	1,125	4,158	-2,104	-2,011	-1,602
Above Normal (15%)	498	-2,011	-860	-1,963	-1,289	-1,390	-1,123	2,652	6,255	-1,519	-2,589	-2,442
Below Normal (17%)	-513	-1,435	576	-1,602	-1,097	-1,450	358	2,544	3,970	-1,974	-2,679	-2,759
Dry (22%)	766	-738	-148	-794	-815	-1,059	777	1,717	1,078	-4,716	-3,438	557
Critical (15%)	1,058	-378	606	-580	-432	-61	164	66	-108	-1,996	-339	1,399

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-20-16. Sacramento River at Freeport, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,520	20,933	48,723	65,933	70,538	64,077	49,290	34,057	18,835	24,508	18,024	29,045
20%	13,547	17,929	34,308	58,498	65,197	55,065	37,063	22,075	16,545	24,006	17,293	26,992
30%	13,136	16,559	22,188	40,921	51,209	43,781	23,035	15,989	15,632	23,370	16,788	23,595
40%	12,921	15,186	18,361	27,468	44,426	32,715	20,117	12,751	14,648	22,549	16,393	21,918
50%	12,316	14,012	15,967	22,991	34,267	25,193	15,145	12,049	13,752	21,553	15,960	12,912
60%	11,349	12,014	14,434	20,308	24,198	21,452	12,276	11,371	13,439	20,296	15,441	10,782
70%	10,225	9,917	13,741	17,513	18,833	18,890	11,546	11,024	12,865	18,346	14,345	9,219
80%	9,117	8,522	11,963	13,741	15,997	15,259	11,288	9,850	12,103	16,208	13,211	8,105
90%	7,641	7,513	9,061	12,265	12,542	11,743	10,225	8,840	11,110	12,429	9,280	7,714
Long Term												
Full Simulation Period[a]	11,857	14,692	22,789	32,496	38,028	33,164	22,892	16,422	15,098	20,020	15,039	16,857
Water Year Types[b]												
Wet (32%)	13,355	19,308	36,987	52,716	59,754	51,011	37,588	24,615	18,807	21,644	16,212	27,309
Above Normal (15%)	11,937	15,972	22,622	40,339	47,678	45,122	24,993	18,772	16,266	22,945	17,635	21,102
Below Normal (17%)	12,208	13,094	16,708	22,575	31,522	22,944	17,199	12,531	14,112	20,734	16,382	12,399
Dry (22%)	10,572	11,964	15,185	17,404	21,083	20,677	12,978	11,558	12,882	19,182	14,498	8,713
Critical (15%)	10,051	9,364	10,694	15,056	14,311	13,190	10,460	8,156	10,369	14,003	9,143	7,386

Alternative 3 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	20,028	20,935	47,975	65,506	70,748	62,109	45,744	33,599	24,526	22,546	16,694	13,816
20%	17,897	14,569	32,725	57,422	62,819	51,834	32,223	23,877	21,130	20,809	14,211	12,622
30%	16,460	12,380	22,584	39,756	49,588	40,813	22,590	19,417	18,961	19,339	13,219	11,866
40%	14,804	11,566	19,079	26,833	43,168	29,591	20,238	16,421	17,641	18,638	12,738	11,030
50%	14,108	10,908	17,174	22,826	29,918	24,703	16,218	14,470	16,263	17,426	12,109	10,455
60%	13,316	10,235	15,695	20,455	23,181	20,821	14,174	13,262	15,132	15,727	11,571	10,134
70%	11,306	9,732	14,728	17,082	20,733	19,475	13,269	12,329	12,823	13,656	10,641	9,710
80%	9,193	8,371	13,429	13,773	15,914	15,433	11,800	11,383	11,978	11,650	8,966	8,696
90%	7,408	8,062	9,671	12,624	12,834	12,066	11,028	8,954	10,852	9,718	8,061	7,818
Long Term												
Full Simulation Period[a]	14,075	13,098	23,403	32,142	37,326	32,118	22,646	18,122	17,068	16,744	12,249	10,933
Water Year Types[b]												
Wet (32%)	14,989	17,735	36,959	52,229	58,650	49,129	35,517	25,851	21,781	19,164	13,990	12,814
Above Normal (15%)	14,412	12,610	23,228	39,658	46,546	43,982	24,315	21,163	20,262	19,930	14,541	12,451
Below Normal (17%)	13,927	11,017	17,896	22,355	30,749	22,226	18,259	15,411	16,701	17,345	12,755	10,261
Dry (22%)	12,820	11,125	16,111	17,809	21,036	19,883	14,150	13,577	13,021	13,785	10,381	9,170
Critical (15%)	13,814	8,928	11,569	14,022	14,009	13,292	10,954	8,312	10,163	12,055	8,392	8,766

Alternative 3 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5,508	3	-747	-427	210	-1,968	-3,546	-458	5,692	-1,962	-1,331	-15,230
20%	4,350	-3,360	-1,583	-1,077	-2,378	-3,231	-4,840	1,802	4,585	-3,197	-3,083	-14,371
30%	3,324	-4,178	396	-1,166	-1,621	-2,968	-445	3,428	3,329	-4,032	-3,569	-11,729
40%	1,884	-3,619	718	-635	-1,258	-3,124	120	3,670	2,992	-3,911	-3,656	-10,888
50%	1,792	-3,105	1,207	-165	-4,349	-491	1,072	2,421	2,511	-4,127	-3,850	-2,457
60%	1,966	-1,779	1,260	147	-1,017	-631	1,898	1,891	1,693	-4,568	-3,870	-648
70%	1,081	-185	987	-431	1,900	585	1,722	1,305	-41	-4,690	-3,704	491
80%	76	-150	1,466	31	-83	175	512	1,533	-125	-4,558	-4,245	591
90%	-233	549	610	359	292	323	803	115	-258	-2,711	-1,220	104
Long Term												
Full Simulation Period[a]	2,218	-1,593	614	-354	-702	-1,046	-246	1,700	1,970	-3,276	-2,790	-5,925
Water Year Types[b]												
Wet (32%)	1,634	-1,573	-28	-487	-1,103	-1,882	-2,071	1,237	2,974	-2,480	-2,222	-14,495
Above Normal (15%)	2,475	-3,362	606	-682	-1,132	-1,140	-677	2,391	3,997	-3,015	-3,094	-8,652
Below Normal (17%)	1,719	-2,077	1,188	-220	-773	-718	1,059	2,880	2,589	-3,390	-3,627	-2,138
Dry (22%)	2,248	-839	926	405	-47	-794	1,171	2,019	139	-5,397	-4,117	457
Critical (15%)	3,763	-437	875	-1,033	-302	102	494	156	-206	-1,948	-751	1,379

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-20-17. Sacramento River at Freeport, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,520	20,933	48,723	65,933	70,538	64,077	49,290	34,057	18,835	24,508	18,024	29,045
20%	13,547	17,929	34,308	58,498	65,197	55,065	37,063	22,075	16,545	24,006	17,293	26,992
30%	13,136	16,559	22,188	40,921	51,209	43,781	23,035	15,989	15,632	23,370	16,788	23,595
40%	12,921	15,186	18,361	27,468	44,426	32,715	20,117	12,751	14,648	22,549	16,393	21,918
50%	12,316	14,012	15,967	22,991	34,267	25,193	15,145	12,049	13,752	21,553	15,960	12,912
60%	11,349	12,014	14,434	20,308	24,198	21,452	12,276	11,371	13,439	20,296	15,441	10,782
70%	10,225	9,917	13,741	17,513	18,833	18,890	11,546	11,024	12,865	18,346	14,345	9,219
80%	9,117	8,522	11,963	13,741	15,997	15,259	11,288	9,850	12,103	16,208	13,211	8,105
90%	7,641	7,513	9,061	12,265	12,542	11,743	10,225	8,840	11,110	12,429	9,280	7,714
Long Term												
Full Simulation Period[a]	11,857	14,692	22,789	32,496	38,028	33,164	22,892	16,422	15,098	20,020	15,039	16,857
Water Year Types[b]												
Wet (32%)	13,355	19,308	36,987	52,716	59,754	51,011	37,588	24,615	18,807	21,644	16,212	27,309
Above Normal (15%)	11,937	15,972	22,622	40,339	47,678	45,122	24,993	18,772	16,266	22,945	17,635	21,102
Below Normal (17%)	12,208	13,094	16,708	22,575	31,522	22,944	17,199	12,531	14,112	20,734	16,382	12,399
Dry (22%)	10,572	11,964	15,185	17,404	21,083	20,677	12,978	11,558	12,882	19,182	14,498	8,713
Critical (15%)	10,051	9,364	10,694	15,056	14,311	13,190	10,460	8,156	10,369	14,003	9,143	7,386

Alternative 4 H1 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	15,198	20,787	49,127	66,716	70,748	62,101	45,725	33,975	23,997	24,341	18,021	13,793
20%	14,183	14,372	32,975	57,602	62,970	51,955	32,231	23,829	23,073	23,530	16,637	12,675
30%	13,554	12,455	21,754	38,957	50,153	41,290	22,629	19,492	20,924	21,911	15,073	12,096
40%	12,638	11,315	18,458	26,931	44,080	29,600	20,293	14,866	19,556	20,272	13,653	11,254
50%	11,965	10,628	16,660	22,600	29,965	24,425	15,723	13,633	17,568	18,551	12,846	10,792
60%	11,180	9,948	14,861	20,109	23,039	20,849	13,558	12,716	15,768	16,781	12,043	10,274
70%	10,948	9,391	13,529	17,286	20,875	18,664	12,616	11,554	13,956	14,909	11,271	9,862
80%	9,961	8,533	12,600	13,901	15,919	15,138	11,438	10,715	12,653	12,606	10,312	9,207
90%	8,182	7,487	9,458	12,322	12,387	11,770	10,683	8,682	10,894	10,237	8,469	8,037
Long Term												
Full Simulation Period[a]	12,033	12,898	23,067	32,013	37,355	32,040	22,326	17,632	17,994	18,062	13,303	11,138
Water Year Types[b]												
Wet (32%)	12,962	17,353	37,097	52,108	58,857	48,981	35,473	25,285	22,358	20,577	14,572	12,767
Above Normal (15%)	11,948	12,817	22,206	40,038	47,178	44,403	23,971	20,652	21,112	22,376	15,965	12,239
Below Normal (17%)	12,141	11,080	17,584	21,537	31,125	22,107	17,625	14,687	18,746	18,863	14,300	10,591
Dry (22%)	11,228	10,722	15,165	16,964	20,203	19,597	13,688	13,109	14,159	15,523	11,773	9,976
Critical (15%)	11,187	8,713	11,783	15,245	13,940	13,223	10,640	8,253	10,293	11,173	9,022	8,889

Alternative 4 H1 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	678	-145	405	783	210	-1,975	-3,564	-82	5,162	-167	-4	-15,252
20%	636	-3,557	-1,334	-896	-2,227	-3,110	-4,832	1,755	6,528	-476	-656	-14,317
30%	418	-4,104	-434	-1,964	-1,056	-2,491	-405	3,503	5,291	-1,459	-1,716	-11,499
40%	-283	-3,870	97	-537	-346	-3,115	176	2,115	4,907	-2,278	-2,740	-10,664
50%	-350	-3,384	693	-391	-4,302	-768	577	1,584	3,816	-3,002	-3,113	-2,119
60%	-170	-2,066	427	-199	-1,159	-603	1,282	1,346	2,330	-3,515	-3,398	-507
70%	723	-525	-212	-227	2,042	-226	1,070	530	1,091	-3,438	-3,074	643
80%	844	12	637	160	-78	-121	150	865	551	-3,602	-2,899	1,102
90%	541	-26	397	57	-156	27	458	-158	-216	-2,192	-811	322
Long Term												
Full Simulation Period[a]	176	-1,793	278	-483	-673	-1,124	-566	1,211	2,896	-1,958	-1,736	-5,719
Water Year Types[b]												
Wet (32%)	-394	-1,954	109	-608	-897	-2,030	-2,115	670	3,551	-1,067	-1,640	-14,541
Above Normal (15%)	11	-3,155	-416	-301	-501	-719	-1,022	1,880	4,847	-569	-1,670	-8,864
Below Normal (17%)	-66	-2,015	876	-1,038	-396	-837	425	2,157	4,634	-1,871	-2,082	-1,808
Dry (22%)	656	-1,242	-20	-440	-880	-1,080	709	1,551	1,277	-3,659	-2,725	1,263
Critical (15%)	1,137	-651	1,089	189	-371	33	180	97	-75	-2,830	-121	1,503

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-20-18. Sacramento River at Freeport, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,520	20,933	48,723	65,933	70,538	64,077	49,290	34,057	18,835	24,508	18,024	29,045
20%	13,547	17,929	34,308	58,498	65,197	55,065	37,063	22,075	16,545	24,006	17,293	26,992
30%	13,136	16,559	22,188	40,921	51,209	43,781	23,035	15,989	15,632	23,370	16,788	23,595
40%	12,921	15,186	18,361	27,468	44,426	32,715	20,117	12,751	14,648	22,549	16,393	21,918
50%	12,316	14,012	15,967	22,991	34,267	25,193	15,145	12,049	13,752	21,553	15,960	12,912
60%	11,349	12,014	14,434	20,308	24,198	21,452	12,276	11,371	13,439	20,296	15,441	10,782
70%	10,225	9,917	13,741	17,513	18,833	18,890	11,546	11,024	12,865	18,346	14,345	9,219
80%	9,117	8,522	11,963	13,741	15,997	15,259	11,288	9,850	12,103	16,208	13,211	8,105
90%	7,641	7,513	9,061	12,265	12,542	11,743	10,225	8,840	11,110	12,429	9,280	7,714
Long Term												
Full Simulation Period[a]	11,857	14,692	22,789	32,496	38,028	33,164	22,892	16,422	15,098	20,020	15,039	16,857
Water Year Types[b]												
Wet (32%)	13,355	19,308	36,987	52,716	59,754	51,011	37,588	24,615	18,807	21,644	16,212	27,309
Above Normal (15%)	11,937	15,972	22,622	40,339	47,678	45,122	24,993	18,772	16,266	22,945	17,635	21,102
Below Normal (17%)	12,208	13,094	16,708	22,575	31,522	22,944	17,199	12,531	14,112	20,734	16,382	12,399
Dry (22%)	10,572	11,964	15,185	17,404	21,083	20,677	12,978	11,558	12,882	19,182	14,498	8,713
Critical (15%)	10,051	9,364	10,694	15,056	14,311	13,190	10,460	8,156	10,369	14,003	9,143	7,386

Alternative 4 H2 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	15,672	20,772	51,919	67,219	71,213	62,854	45,738	34,749	23,557	21,569	16,513	14,078
20%	14,470	14,318	33,163	56,499	62,853	51,907	33,342	23,812	17,896	20,970	15,552	12,978
30%	13,755	12,274	21,816	40,118	51,167	39,186	27,112	21,183	16,988	19,944	14,787	12,142
40%	12,788	11,202	18,599	28,748	43,701	29,908	24,786	17,393	15,612	18,412	14,192	11,428
50%	11,743	10,498	15,971	22,898	30,573	25,159	21,941	14,773	13,559	17,413	13,016	10,821
60%	10,905	10,067	14,494	19,402	22,918	20,720	15,990	12,646	12,812	16,758	12,359	10,343
70%	10,113	9,337	12,307	17,197	19,402	18,368	11,963	11,585	11,990	14,683	11,745	9,915
80%	9,388	8,482	10,597	14,327	15,343	15,135	11,132	10,453	11,428	13,341	10,313	9,534
90%	8,091	7,620	9,475	12,867	11,642	11,518	10,166	8,691	10,048	9,769	8,242	8,379
Long Term												
Full Simulation Period[a]	11,899	13,021	22,833	32,217	37,391	32,016	24,157	18,294	15,512	16,883	12,974	11,324
Water Year Types[b]												
Wet (32%)	12,818	17,616	38,057	51,968	58,557	49,060	38,231	27,313	19,096	18,497	13,412	12,833
Above Normal (15%)	11,875	12,760	20,875	40,391	47,418	43,707	27,350	21,792	15,914	18,727	15,187	11,497
Below Normal (17%)	11,634	11,313	16,764	22,091	31,778	22,458	21,256	14,564	15,910	17,942	14,136	11,355
Dry (22%)	10,852	10,765	14,619	17,458	20,151	19,656	13,197	12,578	13,511	15,939	12,564	10,243
Critical (15%)	11,814	8,702	11,210	15,204	13,913	13,088	10,292	8,182	9,885	11,725	9,072	9,468

Alternative 4 H2 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,152	-161	3,197	1,287	675	-1,223	-3,551	693	4,723	-2,939	-1,511	-14,968
20%	923	-3,611	-1,145	-2,000	-2,344	-3,158	-3,721	1,738	1,350	-3,035	-1,741	-14,014
30%	619	-4,285	-372	-803	-42	-4,595	4,077	5,195	1,356	-3,426	-2,002	-11,454
40%	-133	-3,984	238	1,280	-725	-2,808	4,669	4,642	963	-4,137	-2,201	-10,490
50%	-573	-3,515	4	-93	-3,694	-35	6,796	2,724	-192	-4,139	-2,944	-2,091
60%	-445	-1,947	59	-906	-1,280	-733	3,714	1,276	-626	-3,537	-3,082	-438
70%	-112	-580	-1,434	-316	569	-522	417	561	-875	-3,663	-2,600	696
80%	271	-40	-1,366	586	-654	-123	-157	603	-674	-2,867	-2,899	1,429
90%	450	107	414	602	-900	-225	-59	-149	-1,062	-2,660	-1,038	665
Long Term												
Full Simulation Period[a]	42	-1,671	44	-279	-637	-1,148	1,265	1,873	414	-3,137	-2,065	-5,533
Water Year Types[b]												
Wet (32%)	-537	-1,692	1,070	-748	-1,196	-1,951	643	2,698	289	-3,147	-2,800	-14,476
Above Normal (15%)	-62	-3,212	-1,747	51	-261	-1,415	2,358	3,021	-352	-4,218	-2,448	-9,606
Below Normal (17%)	-574	-1,782	56	-484	256	-486	4,057	2,034	1,798	-2,793	-2,246	-1,044
Dry (22%)	280	-1,199	-566	54	-932	-1,021	218	1,020	629	-3,243	-1,934	1,530
Critical (15%)	1,763	-662	516	148	-398	-102	-168	26	-484	-2,278	-72	2,082

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-20-19. Sacramento River at Freeport, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,520	20,933	48,723	65,933	70,538	64,077	49,290	34,057	18,835	24,508	18,024	29,045
20%	13,547	17,929	34,308	58,498	65,197	55,065	37,063	22,075	16,545	24,006	17,293	26,992
30%	13,136	16,559	22,188	40,921	51,209	43,781	23,035	15,989	15,632	23,370	16,788	23,595
40%	12,921	15,186	18,361	27,468	44,426	32,715	20,117	12,751	14,648	22,549	16,393	21,918
50%	12,316	14,012	15,967	22,991	34,267	25,193	15,145	12,049	13,752	21,553	15,960	12,912
60%	11,349	12,014	14,434	20,308	24,198	21,452	12,276	11,371	13,439	20,296	15,441	10,782
70%	10,225	9,917	13,741	17,513	18,833	18,890	11,546	11,024	12,865	18,346	14,345	9,219
80%	9,117	8,522	11,963	13,741	15,997	15,259	11,288	9,850	12,103	16,208	13,211	8,105
90%	7,641	7,513	9,061	12,265	12,542	11,743	10,225	8,840	11,110	12,429	9,280	7,714
Long Term												
Full Simulation Period[a]	11,857	14,692	22,789	32,496	38,028	33,164	22,892	16,422	15,098	20,020	15,039	16,857
Water Year Types[b]												
Wet (32%)	13,355	19,308	36,987	52,716	59,754	51,011	37,588	24,615	18,807	21,644	16,212	27,309
Above Normal (15%)	11,937	15,972	22,622	40,339	47,678	45,122	24,993	18,772	16,266	22,945	17,635	21,102
Below Normal (17%)	12,208	13,094	16,708	22,575	31,522	22,944	17,199	12,531	14,112	20,734	16,382	12,399
Dry (22%)	10,572	11,964	15,185	17,404	21,083	20,677	12,978	11,558	12,882	19,182	14,498	8,713
Critical (15%)	10,051	9,364	10,694	15,056	14,311	13,190	10,460	8,156	10,369	14,003	9,143	7,386

Alternative 4 H3 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,961	20,481	47,114	65,109	70,478	62,099	45,720	33,673	24,086	24,135	17,696	27,249
20%	13,813	14,880	31,652	56,986	63,420	51,636	32,225	23,965	23,239	23,464	16,614	25,457
30%	13,113	14,515	20,790	39,247	48,812	39,937	22,611	20,088	21,190	21,769	14,502	22,253
40%	12,441	12,633	18,001	24,888	43,168	29,230	20,046	15,076	19,523	20,491	13,500	17,197
50%	11,859	11,952	15,874	21,948	30,009	23,697	16,021	13,530	17,586	18,805	12,375	12,310
60%	11,385	10,872	14,357	18,894	23,192	20,648	13,213	12,595	15,520	16,650	12,036	10,198
70%	10,858	9,812	13,603	15,758	19,264	18,403	12,191	11,809	13,276	14,532	11,385	9,426
80%	9,283	8,331	12,426	13,741	15,532	15,490	11,204	10,690	12,151	12,743	10,143	8,752
90%	8,158	7,141	9,440	12,471	12,363	11,464	10,699	8,674	10,941	10,389	8,373	7,775
Long Term												
Full Simulation Period[a]	11,862	13,483	22,156	31,296	37,070	31,666	22,231	17,669	17,959	18,084	13,157	15,923
Water Year Types[b]												
Wet (32%)	13,031	17,903	35,182	51,332	58,619	48,787	35,365	25,325	22,530	20,754	14,696	25,642
Above Normal (15%)	12,179	13,912	21,806	38,336	46,604	43,357	23,884	20,924	21,228	22,447	15,875	18,499
Below Normal (17%)	11,787	11,833	16,645	20,995	30,339	21,357	17,574	14,728	18,161	19,322	14,334	10,023
Dry (22%)	10,900	11,226	14,923	16,506	20,283	19,565	13,571	13,027	14,192	14,736	11,232	9,464
Critical (15%)	10,539	8,788	11,565	15,045	13,878	13,061	10,546	8,218	10,200	11,510	8,621	8,858

Alternative 4 H3 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	440	-452	-1,609	-824	-60	-1,978	-3,570	-384	5,251	-373	-328	-1,797
20%	266	-3,049	-2,657	-1,512	-1,777	-3,429	-4,838	1,890	6,694	-541	-680	-1,535
30%	-23	-2,044	-1,398	-1,674	-2,397	-3,844	-424	4,099	5,558	-1,601	-2,286	-1,343
40%	-480	-2,552	-361	-2,581	-1,258	-3,486	-71	2,326	4,874	-2,058	-2,894	-4,721
50%	-457	-2,060	-93	-1,043	-4,258	-1,496	876	1,480	3,834	-2,748	-3,584	-601
60%	36	-1,142	-78	-1,414	-1,007	-804	937	1,225	2,081	-3,645	-3,404	-583
70%	633	-105	-138	-1,755	431	-488	645	785	411	-3,815	-2,960	208
80%	166	-191	463	-1	-465	232	-85	840	48	-3,465	-3,068	647
90%	517	-372	379	206	-180	-278	474	-166	-169	-2,040	-908	61
Long Term												
Full Simulation Period[a]	4	-1,209	-633	-1,200	-958	-1,497	-661	1,247	2,861	-1,937	-1,881	-935
Water Year Types[b]												
Wet (32%)	-324	-1,405	-1,805	-1,384	-1,134	-2,224	-2,223	711	3,723	-889	-1,516	-1,666
Above Normal (15%)	242	-2,060	-815	-2,003	-1,075	-1,766	-1,109	2,153	4,962	-498	-1,760	-2,604
Below Normal (17%)	-421	-1,261	-63	-1,580	-1,182	-1,587	375	2,198	4,049	-1,413	-2,048	-2,376
Dry (22%)	328	-738	-262	-897	-800	-1,112	592	1,469	1,310	-4,446	-3,266	751
Critical (15%)	489	-576	871	-11	-434	-129	86	62	-169	-2,493	-523	1,471

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-20-20. Sacramento River at Freeport, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,520	20,933	48,723	65,933	70,538	64,077	49,290	34,057	18,835	24,508	18,024	29,045
20%	13,547	17,929	34,308	58,498	65,197	55,065	37,063	22,075	16,545	24,006	17,293	26,992
30%	13,136	16,559	22,188	40,921	51,209	43,781	23,035	15,989	15,632	23,370	16,788	23,595
40%	12,921	15,186	18,361	27,468	44,426	32,715	20,117	12,751	14,648	22,549	16,393	21,918
50%	12,316	14,012	15,967	22,991	34,267	25,193	15,145	12,049	13,752	21,553	15,960	12,912
60%	11,349	12,014	14,434	20,308	24,198	21,452	12,276	11,371	13,439	20,296	15,441	10,782
70%	10,225	9,917	13,741	17,513	18,833	18,890	11,546	11,024	12,865	18,346	14,345	9,219
80%	9,117	8,522	11,963	13,741	15,997	15,259	11,288	9,850	12,103	16,208	13,211	8,105
90%	7,641	7,513	9,061	12,265	12,542	11,743	10,225	8,840	11,110	12,429	9,280	7,714
Long Term												
Full Simulation Period[a]	11,857	14,692	22,789	32,496	38,028	33,164	22,892	16,422	15,098	20,020	15,039	16,857
Water Year Types[b]												
Wet (32%)	13,355	19,308	36,987	52,716	59,754	51,011	37,588	24,615	18,807	21,644	16,212	27,309
Above Normal (15%)	11,937	15,972	22,622	40,339	47,678	45,122	24,993	18,772	16,266	22,945	17,635	21,102
Below Normal (17%)	12,208	13,094	16,708	22,575	31,522	22,944	17,199	12,531	14,112	20,734	16,382	12,399
Dry (22%)	10,572	11,964	15,185	17,404	21,083	20,677	12,978	11,558	12,882	19,182	14,498	8,713
Critical (15%)	10,051	9,364	10,694	15,056	14,311	13,190	10,460	8,156	10,369	14,003	9,143	7,386

Alternative 4 H4 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	15,410	20,944	47,438	67,221	70,508	62,106	45,739	34,855	23,192	22,505	16,574	27,439
20%	13,639	15,045	30,679	55,009	62,867	51,586	33,359	23,948	19,220	20,706	15,471	25,314
30%	12,689	14,279	21,411	39,278	49,309	38,274	27,392	21,194	16,329	19,935	14,768	22,585
40%	12,086	12,637	18,079	26,057	43,379	29,677	24,786	16,712	15,217	18,412	14,123	18,230
50%	11,478	11,899	15,660	21,106	30,512	24,141	21,764	14,076	13,846	17,320	13,159	13,333
60%	11,149	11,182	13,996	18,134	22,876	20,427	14,983	12,477	12,861	15,531	12,211	10,632
70%	10,430	9,727	13,217	14,663	18,943	18,049	11,937	11,560	11,960	14,119	11,496	9,413
80%	9,280	8,425	10,539	13,497	15,379	15,050	10,966	10,481	11,227	12,918	10,185	8,978
90%	8,103	7,619	9,061	12,111	11,698	11,513	10,231	8,664	9,970	10,393	8,267	8,190
Long Term												
Full Simulation Period[a]	11,685	13,591	22,039	30,916	37,051	31,662	24,076	18,163	15,494	16,880	12,893	16,338
Water Year Types[b]												
Wet (32%)	12,815	17,994	35,745	50,819	58,286	48,940	38,200	27,278	19,100	19,155	13,489	26,036
Above Normal (15%)	12,466	14,320	21,205	38,220	46,706	42,766	27,423	21,787	16,152	18,837	14,533	18,466
Below Normal (17%)	11,279	11,865	16,382	21,244	30,710	21,606	20,814	14,206	16,248	18,018	13,938	10,122
Dry (22%)	10,442	11,218	14,622	16,263	20,199	19,580	13,156	12,315	13,006	14,856	12,536	10,332
Critical (15%)	10,796	8,896	10,904	13,755	14,060	12,978	10,313	8,181	9,875	11,701	9,281	9,458

Alternative 4 H4 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	890	11	**-1,285**	1,288	**-31**	**-1,971**	**-3,551**	798	4,358	**-2,003**	**-1,451**	**-1,606**
20%	93	**-2,884**	**-3,629**	**-3,490**	**-2,330**	**-3,478**	**-3,704**	1,873	2,675	**-3,300**	**-1,822**	**-1,678**
30%	**-447**	**-2,279**	**-777**	**-1,643**	**-1,900**	**-5,506**	4,357	5,205	697	**-3,436**	**-2,020**	**-1,010**
40%	**-835**	**-2,548**	**-282**	**-1,411**	**-1,046**	**-3,038**	4,668	3,961	569	**-4,138**	**-2,270**	**-3,687**
50%	**-838**	**-2,114**	**-308**	**-1,886**	**-3,755**	**-1,053**	6,619	2,027	94	**-4,232**	**-2,800**	421
60%	**-201**	**-833**	**-439**	**-2,174**	**-1,323**	**-1,025**	2,707	1,107	**-578**	**-4,764**	**-3,230**	**-150**
70%	205	**-190**	**-524**	**-2,849**	110	**-842**	391	535	**-905**	**-4,228**	**-2,849**	194
80%	164	**-96**	**-1,423**	**-244**	**-618**	**-209**	**-322**	631	**-876**	**-3,290**	**-3,026**	873
90%	462	106	0	**-154**	**-844**	**-230**	7	**-176**	**-1,139**	**-2,037**	**-1,014**	476
Long Term												
Full Simulation Period[a]	**-172**	**-1,100**	**-750**	**-1,580**	**-977**	**-1,502**	1,184	1,742	396	**-3,141**	**-2,145**	**-519**
Water Year Types[b]												
Wet (32%)	**-541**	**-1,314**	**-1,242**	**-1,897**	**-1,467**	**-2,071**	612	2,663	293	**-2,489**	**-2,723**	**-1,273**
Above Normal (15%)	529	**-1,652**	**-1,417**	**-2,119**	**-972**	**-2,356**	2,430	3,016	**-114**	**-4,108**	**-3,102**	**-2,636**
Below Normal (17%)	**-928**	**-1,229**	**-326**	**-1,331**	**-812**	**-1,338**	3,615	1,676	2,136	**-2,716**	**-2,444**	**-2,277**
Dry (22%)	**-130**	**-746**	**-564**	**-1,141**	**-884**	**-1,097**	178	757	124	**-4,326**	**-1,962**	1,619
Critical (15%)	745	**-468**	210	**-1,300**	**-252**	**-212**	**-147**	25	**-493**	**-2,302**	138	2,072

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-20-21. Sacramento River at Freeport, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,520	20,933	48,723	65,933	70,538	64,077	49,290	34,057	18,835	24,508	18,024	29,045
20%	13,547	17,929	34,308	58,498	65,197	55,065	37,063	22,075	16,545	24,006	17,293	26,992
30%	13,136	16,559	22,188	40,921	51,209	43,781	23,035	15,989	15,632	23,370	16,788	23,595
40%	12,921	15,186	18,361	27,468	44,426	32,715	20,117	12,751	14,648	22,549	16,393	21,918
50%	12,316	14,012	15,967	22,991	34,267	25,193	15,145	12,049	13,752	21,553	15,960	12,912
60%	11,349	12,014	14,434	20,308	24,198	21,452	12,276	11,371	13,439	20,296	15,441	10,782
70%	10,225	9,917	13,741	17,513	18,833	18,890	11,546	11,024	12,865	18,346	14,345	9,219
80%	9,117	8,522	11,963	13,741	15,997	15,259	11,288	9,850	12,103	16,208	13,211	8,105
90%	7,641	7,513	9,061	12,265	12,542	11,743	10,225	8,840	11,110	12,429	9,280	7,714
Long Term												
Full Simulation Period[a]	11,857	14,692	22,789	32,496	38,028	33,164	22,892	16,422	15,098	20,020	15,039	16,857
Water Year Types[b]												
Wet (32%)	13,355	19,308	36,987	52,716	59,754	51,011	37,588	24,615	18,807	21,644	16,212	27,309
Above Normal (15%)	11,937	15,972	22,622	40,339	47,678	45,122	24,993	18,772	16,266	22,945	17,635	21,102
Below Normal (17%)	12,208	13,094	16,708	22,575	31,522	22,944	17,199	12,531	14,112	20,734	16,382	12,399
Dry (22%)	10,572	11,964	15,185	17,404	21,083	20,677	12,978	11,558	12,882	19,182	14,498	8,713
Critical (15%)	10,051	9,364	10,694	15,056	14,311	13,190	10,460	8,156	10,369	14,003	9,143	7,386

Alternative 5 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	16,423	20,426	42,651	65,826	70,405	62,103	45,726	33,598	21,672	24,967	19,480	25,640
20%	13,936	15,239	31,184	56,662	63,633	51,679	32,228	21,995	19,507	24,171	17,127	24,196
30%	13,514	14,291	20,861	39,253	48,699	40,695	22,532	17,678	18,245	23,515	16,472	21,838
40%	13,087	13,200	17,779	25,057	41,782	29,523	19,892	13,843	17,439	22,763	15,157	15,808
50%	12,216	12,070	15,839	21,814	29,908	23,715	15,807	12,903	16,927	21,776	13,579	9,971
60%	11,550	11,468	14,646	19,227	23,118	20,550	13,377	12,172	15,969	19,938	12,254	9,171
70%	11,142	9,723	14,230	15,658	18,973	18,510	12,248	11,412	14,020	17,745	10,309	8,822
80%	9,021	8,338	12,557	13,491	15,432	15,136	11,168	10,297	12,300	15,009	8,557	8,126
90%	7,352	7,504	9,444	12,372	12,558	11,734	10,582	8,699	11,065	10,644	7,995	7,864
Long Term												
Full Simulation Period[a]	12,368	13,589	22,105	31,316	36,991	31,758	22,224	16,966	16,843	19,769	13,496	15,069
Water Year Types[b]												
Wet (32%)	13,226	18,126	34,936	51,769	58,589	48,942	35,380	24,745	21,205	22,270	15,273	24,772
Above Normal (15%)	12,818	13,979	21,907	38,009	46,235	43,566	23,841	19,722	18,566	22,781	17,168	17,004
Below Normal (17%)	13,608	11,624	16,460	21,346	29,752	21,449	17,405	13,329	16,802	21,739	15,216	9,413
Dry (22%)	10,828	11,486	15,422	16,303	20,605	19,540	13,437	12,686	13,943	17,527	10,688	8,526
Critical (15%)	10,922	8,815	11,112	14,456	13,975	13,072	10,907	8,020	10,065	12,402	8,182	8,525

Alternative 5 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,903	-506	-6,071	-106	-133	-1,973	-3,564	-458	2,837	459	1,456	-3,406
20%	390	-2,690	-3,124	-1,837	-1,564	-3,385	-4,835	-80	2,961	165	-166	-2,796
30%	378	-2,268	-1,327	-1,668	-2,510	-3,086	-503	1,689	2,613	145	-317	-1,758
40%	166	-1,985	-583	-2,412	-2,644	-3,192	-225	1,092	2,791	214	-1,237	-6,110
50%	-100	-1,942	-128	-1,177	-4,358	-1,479	662	854	3,175	224	-2,381	-2,941
60%	200	-546	211	-1,081	-1,080	-902	1,101	802	2,530	-357	-3,187	-1,611
70%	917	-194	489	-1,854	140	-380	702	388	1,155	-601	-4,035	-397
80%	-96	-183	594	-250	-565	-123	-120	447	198	-1,199	-4,654	21
90%	-289	-9	383	107	15	-9	357	-140	-45	-1,786	-1,285	150
Long Term												
Full Simulation Period[a]	511	-1,103	-684	-1,180	-1,037	-1,406	-667	544	1,745	-251	-1,542	-1,788
Water Year Types[b]												
Wet (32%)	-129	-1,182	-2,051	-947	-1,165	-2,069	-2,208	131	2,398	626	-940	-2,536
Above Normal (15%)	881	-1,993	-715	-2,331	-1,444	-1,556	-1,152	950	2,301	-164	-467	-4,099
Below Normal (17%)	1,400	-1,470	-248	-1,229	-1,770	-1,495	206	798	2,690	1,005	-1,166	-2,986
Dry (22%)	256	-478	237	-1,100	-478	-1,137	459	1,128	1,062	-1,655	-3,810	-187
Critical (15%)	871	-549	418	-600	-337	-118	447	-136	-304	-1,601	-962	1,139

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-20-22. Sacramento River at Freeport, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,520	20,933	48,723	65,933	70,538	64,077	49,290	34,057	18,835	24,508	18,024	29,045
20%	13,547	17,929	34,308	58,498	65,197	55,065	37,063	22,075	16,545	24,006	17,293	26,992
30%	13,136	16,559	22,188	40,921	51,209	43,781	23,035	15,989	15,632	23,370	16,788	23,595
40%	12,921	15,186	18,361	27,468	44,426	32,715	20,117	12,751	14,648	22,549	16,393	21,918
50%	12,316	14,012	15,967	22,991	34,267	25,193	15,145	12,049	13,752	21,553	15,960	12,912
60%	11,349	12,014	14,434	20,308	24,198	21,452	12,276	11,371	13,439	20,296	15,441	10,782
70%	10,225	9,917	13,741	17,513	18,833	18,890	11,546	11,024	12,865	18,346	14,345	9,219
80%	9,117	8,522	11,963	13,741	15,997	15,259	11,288	9,850	12,103	16,208	13,211	8,105
90%	7,641	7,513	9,061	12,265	12,542	11,743	10,225	8,840	11,110	12,429	9,280	7,714
Long Term												
Full Simulation Period[a]	11,857	14,692	22,789	32,496	38,028	33,164	22,892	16,422	15,098	20,020	15,039	16,857
Water Year Types[b]												
Wet (32%)	13,355	19,308	36,987	52,716	59,754	51,011	37,588	24,615	18,807	21,644	16,212	27,309
Above Normal (15%)	11,937	15,972	22,622	40,339	47,678	45,122	24,993	18,772	16,266	22,945	17,635	21,102
Below Normal (17%)	12,208	13,094	16,708	22,575	31,522	22,944	17,199	12,531	14,112	20,734	16,382	12,399
Dry (22%)	10,572	11,964	15,185	17,404	21,083	20,677	12,978	11,558	12,882	19,182	14,498	8,713
Critical (15%)	10,051	9,364	10,694	15,056	14,311	13,190	10,460	8,156	10,369	14,003	9,143	7,386

Alternative 6A,6B,6C (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,248	20,539	48,721	65,721	70,551	62,324	45,765	33,924	23,991	22,340	17,965	23,764
20%	13,647	15,126	32,823	57,755	62,982	51,626	32,232	24,084	19,766	21,328	16,410	21,804
30%	12,834	14,304	21,494	41,143	49,329	41,875	22,539	18,416	16,098	20,196	15,266	18,551
40%	12,378	13,179	17,932	25,464	42,438	29,648	20,076	12,485	14,399	19,307	14,669	16,335
50%	11,717	11,965	15,615	21,976	30,185	24,226	15,363	11,704	12,847	18,352	14,009	14,449
60%	11,012	11,247	13,564	18,550	23,611	20,713	12,541	10,987	11,439	17,636	13,338	12,904
70%	10,234	10,628	11,689	14,751	18,816	18,406	11,299	10,233	10,955	15,814	12,953	11,676
80%	9,525	9,809	10,069	13,507	16,067	15,168	10,260	9,350	10,518	14,353	11,691	10,686
90%	8,029	8,465	8,712	11,793	12,193	10,976	9,359	8,172	9,226	13,339	11,071	10,216
Long Term												
Full Simulation Period[a]	11,504	13,931	21,993	31,468	37,295	31,868	21,725	16,729	15,017	18,003	14,234	15,583
Water Year Types[b]												
Wet (32%)	13,047	18,220	36,382	52,118	58,561	49,074	35,385	25,606	19,644	20,215	15,899	22,285
Above Normal (15%)	10,649	14,448	21,325	39,231	47,469	44,272	23,891	19,358	17,043	20,188	15,481	17,344
Below Normal (17%)	11,762	12,213	15,693	21,039	30,547	21,608	16,463	12,682	14,151	19,347	15,595	13,461
Dry (22%)	10,683	11,783	14,345	16,595	20,195	19,759	12,562	11,107	11,330	15,472	12,805	11,460
Critical (15%)	9,945	9,348	10,306	13,444	14,567	12,315	9,846	8,021	9,510	13,254	9,931	7,962

Alternative 6A,6B,6C (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-273	-393	-1	-212	12	-1,753	-3,525	-132	5,156	-2,168	-59	-5,281
20%	100	-2,803	-1,486	-744	-2,215	-3,439	-4,831	2,009	3,221	-2,678	-883	-5,188
30%	-302	-2,255	-694	221	-1,880	-1,906	-495	2,427	466	-3,174	-1,522	-5,045
40%	-542	-2,007	-430	-2,004	-1,987	-3,068	-41	-265	-249	-3,242	-1,724	-5,582
50%	-599	-2,047	-353	-1,015	-4,082	-967	218	-345	-905	-3,201	-1,950	1,537
60%	-337	-767	-870	-1,759	-587	-740	265	-384	-2,000	-2,660	-2,103	2,122
70%	9	711	-2,052	-2,762	-17	-484	-247	-792	-1,910	-2,532	-1,392	2,457
80%	408	1,288	-1,894	-234	70	-90	-1,028	-499	-1,585	-1,855	-1,520	2,581
90%	388	952	-349	-472	-350	-767	-866	-668	-1,883	910	1,791	2,502
Long Term												
Full Simulation Period[a]	-354	-760	-796	-1,028	-733	-1,296	-1,167	307	-81	-2,017	-805	-1,274
Water Year Types[b]												
Wet (32%)	-309	-1,087	-605	-598	-1,192	-1,936	-2,203	991	837	-1,429	-313	-5,023
Above Normal (15%)	-1,288	-1,524	-1,297	-1,109	-210	-850	-1,102	586	777	-2,757	-2,154	-3,758
Below Normal (17%)	-445	-881	-1,015	-1,536	-975	-1,337	-736	152	38	-1,387	-787	1,061
Dry (22%)	111	-181	-841	-809	-888	-918	-416	-451	-1,552	-3,710	-1,693	2,747
Critical (15%)	-106	-17	-388	-1,612	256	-875	-614	-135	-858	-749	788	575

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-20-23. Sacramento River at Freeport, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,520	20,933	48,723	65,933	70,538	64,077	49,290	34,057	18,835	24,508	18,024	29,045
20%	13,547	17,929	34,308	58,498	65,197	55,065	37,063	22,075	16,545	24,006	17,293	26,992
30%	13,136	16,559	22,188	40,921	51,209	43,781	23,035	15,989	15,632	23,370	16,788	23,595
40%	12,921	15,186	18,361	27,468	44,426	32,715	20,117	12,751	14,648	22,549	16,393	21,918
50%	12,316	14,012	15,967	22,991	34,267	25,193	15,145	12,049	13,752	21,553	15,960	12,912
60%	11,349	12,014	14,434	20,308	24,198	21,452	12,276	11,371	13,439	20,296	15,441	10,782
70%	10,225	9,917	13,741	17,513	18,833	18,890	11,546	11,024	12,865	18,346	14,345	9,219
80%	9,117	8,522	11,963	13,741	15,997	15,259	11,288	9,850	12,103	16,208	13,211	8,105
90%	7,641	7,513	9,061	12,265	12,542	11,743	10,225	8,840	11,110	12,429	9,280	7,714
Long Term												
Full Simulation Period[a]	11,857	14,692	22,789	32,496	38,028	33,164	22,892	16,422	15,098	20,020	15,039	16,857
Water Year Types[b]												
Wet (32%)	13,355	19,308	36,987	52,716	59,754	51,011	37,588	24,615	18,807	21,644	16,212	27,309
Above Normal (15%)	11,937	15,972	22,622	40,339	47,678	45,122	24,993	18,772	16,266	22,945	17,635	21,102
Below Normal (17%)	12,208	13,094	16,708	22,575	31,522	22,944	17,199	12,531	14,112	20,734	16,382	12,399
Dry (22%)	10,572	11,964	15,185	17,404	21,083	20,677	12,978	11,558	12,882	19,182	14,498	8,713
Critical (15%)	10,051	9,364	10,694	15,056	14,311	13,190	10,460	8,156	10,369	14,003	9,143	7,386

Alternative 7 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,436	21,019	45,610	65,541	70,560	61,667	48,185	34,046	22,031	24,726	18,765	26,931
20%	13,582	15,368	30,819	56,370	62,669	50,423	34,422	23,354	19,386	23,604	16,848	25,746
30%	13,262	14,293	21,123	38,986	48,337	39,062	22,818	18,185	17,921	22,279	15,461	21,065
40%	12,988	13,367	17,763	24,901	41,493	28,854	20,315	12,432	16,558	21,580	14,060	17,462
50%	12,452	12,096	15,502	21,882	28,971	24,267	14,863	11,465	14,912	19,487	13,107	11,264
60%	11,967	11,229	13,650	18,957	22,871	20,369	12,237	11,095	12,703	18,139	12,459	9,937
70%	11,308	10,563	11,813	14,713	18,722	18,575	11,339	10,334	11,900	16,343	12,088	9,206
80%	10,520	9,902	10,017	13,371	16,103	15,231	10,344	9,360	11,637	14,805	10,755	8,464
90%	8,705	8,933	8,896	11,866	12,206	11,058	9,435	8,802	11,540	12,905	10,626	7,518
Long Term												
Full Simulation Period[a]	12,115	13,994	21,526	30,996	36,912	31,397	22,100	16,749	16,160	19,159	14,032	15,687
Water Year Types[b]												
Wet (32%)	13,516	18,293	35,223	51,333	58,112	48,339	36,461	25,163	20,835	20,939	14,815	25,710
Above Normal (15%)	11,862	14,482	20,752	38,447	46,605	42,752	24,205	20,047	18,722	22,566	15,977	18,055
Below Normal (17%)	11,851	12,328	15,665	20,868	30,100	21,898	16,486	12,382	14,669	21,037	16,125	10,256
Dry (22%)	11,415	11,808	14,200	16,201	20,066	19,402	12,443	10,884	11,997	17,127	12,215	9,112
Critical (15%)	10,691	9,413	10,447	13,489	14,502	12,413	9,917	9,114	11,454	12,754	10,674	7,801

Alternative 7 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-85	86	-3,112	-392	22	-2,409	-1,105	-11	3,196	218	740	-2,115
20%	35	-2,561	-3,489	-2,128	-2,528	-4,641	-2,641	1,279	2,841	-402	-445	-1,246
30%	126	-2,266	-1,064	-1,935	-2,872	-4,718	-217	2,196	2,289	-1,092	-1,327	-2,530
40%	67	-1,818	-599	-2,567	-2,933	-3,861	197	-319	1,909	-970	-2,333	-4,455
50%	136	-1,917	-466	-1,110	-5,296	-926	-282	-584	1,161	-2,066	-2,853	-1,648
60%	617	-785	-784	-1,351	-1,328	-1,084	-39	-276	-736	-2,156	-2,981	-844
70%	1,083	646	-1,928	-2,800	-112	-315	-207	-690	-965	-2,004	-2,257	-13
80%	1,403	1,381	-1,946	-371	106	-28	-944	-490	-465	-1,403	-2,456	359
90%	1,064	1,420	-165	-399	-336	-684	-790	-38	430	476	1,346	-196
Long Term												
Full Simulation Period[a]	258	-698	-1,263	-1,500	-1,116	-1,766	-792	327	1,062	-861	-1,007	-1,171
Water Year Types[b]												
Wet (32%)	161	-1,015	-1,765	-1,383	-1,642	-2,672	-1,127	549	2,027	-704	-1,397	-1,599
Above Normal (15%)	-75	-1,490	-1,870	-1,892	-1,074	-2,370	-788	1,275	2,457	-379	-1,658	-3,047
Below Normal (17%)	-356	-766	-1,043	-1,707	-1,422	-1,046	-713	-149	557	303	-257	-2,143
Dry (22%)	843	-156	-985	-1,203	-1,017	-1,275	-536	-674	-885	-2,055	-2,283	398
Critical (15%)	640	49	-246	-1,567	190	-777	-543	958	1,085	-1,249	1,531	415

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-20-24. Sacramento River at Freeport, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,520	20,933	48,723	65,933	70,538	64,077	49,290	34,057	18,835	24,508	18,024	29,045
20%	13,547	17,929	34,308	58,498	65,197	55,065	37,063	22,075	16,545	24,006	17,293	26,992
30%	13,136	16,559	22,188	40,921	51,209	43,781	23,035	15,989	15,632	23,370	16,788	23,595
40%	12,921	15,186	18,361	27,468	44,426	32,715	20,117	12,751	14,648	22,549	16,393	21,918
50%	12,316	14,012	15,967	22,991	34,267	25,193	15,145	12,049	13,752	21,553	15,960	12,912
60%	11,349	12,014	14,434	20,308	24,198	21,452	12,276	11,371	13,439	20,296	15,441	10,782
70%	10,225	9,917	13,741	17,513	18,833	18,890	11,546	11,024	12,865	18,346	14,345	9,219
80%	9,117	8,522	11,963	13,741	15,997	15,259	11,288	9,850	12,103	16,208	13,211	8,105
90%	7,641	7,513	9,061	12,265	12,542	11,743	10,225	8,840	11,110	12,429	9,280	7,714
Long Term												
Full Simulation Period[a]	11,857	14,692	22,789	32,496	38,028	33,164	22,892	16,422	15,098	20,020	15,039	16,857
Water Year Types[b]												
Wet (32%)	13,355	19,308	36,987	52,716	59,754	51,011	37,588	24,615	18,807	21,644	16,212	27,309
Above Normal (15%)	11,937	15,972	22,622	40,339	47,678	45,122	24,993	18,772	16,266	22,945	17,635	21,102
Below Normal (17%)	12,208	13,094	16,708	22,575	31,522	22,944	17,199	12,531	14,112	20,734	16,382	12,399
Dry (22%)	10,572	11,964	15,185	17,404	21,083	20,677	12,978	11,558	12,882	19,182	14,498	8,713
Critical (15%)	10,051	9,364	10,694	15,056	14,311	13,190	10,460	8,156	10,369	14,003	9,143	7,386

Alternative 8 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	12,944	20,278	47,771	67,478	70,333	64,268	52,494	36,887	24,492	14,838	11,095	22,278
20%	11,467	14,451	29,565	55,555	63,319	49,960	39,610	28,200	19,242	13,901	11,016	21,316
30%	10,433	13,656	21,064	41,194	50,361	40,153	30,786	25,387	16,012	13,493	10,972	18,581
40%	10,096	12,050	17,875	27,985	42,696	31,521	26,592	21,043	13,871	12,640	10,891	15,300
50%	9,553	11,436	15,264	23,869	32,123	27,299	24,549	19,122	12,517	12,113	10,710	9,180
60%	8,964	10,345	13,487	19,652	25,384	23,554	19,792	15,427	11,687	11,795	10,598	8,610
70%	8,428	9,637	11,507	16,009	22,220	21,656	17,684	13,707	11,502	11,263	10,510	8,086
80%	7,480	9,051	9,915	13,494	18,566	18,736	15,189	11,413	11,179	10,696	10,256	7,553
90%	6,025	7,798	8,360	11,416	12,576	14,396	12,107	9,253	10,566	10,362	8,898	7,390
Long Term												
Full Simulation Period[a]	9,754	13,185	21,476	32,416	38,562	33,712	27,679	21,256	15,406	12,580	10,479	13,294
Water Year Types[b]												
Wet (32%)	11,175	17,570	35,775	52,529	58,337	49,003	40,703	30,688	20,996	14,562	11,206	21,602
Above Normal (15%)	10,491	13,646	19,870	41,122	48,582	43,813	31,108	24,790	16,504	12,704	10,742	15,068
Below Normal (17%)	9,230	11,259	15,630	23,391	32,442	25,232	25,735	19,253	13,301	11,376	9,970	8,615
Dry (22%)	8,893	11,208	13,963	17,073	23,461	24,175	18,683	14,075	11,136	11,703	10,430	7,970
Critical (15%)	7,842	8,433	10,193	13,674	15,490	14,676	11,791	10,391	11,059	10,884	9,312	6,965

Alternative 8 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,577	-654	-952	1,545	-205	192	3,205	2,830	5,658	-9,670	-6,930	-6,768
20%	-2,080	-3,478	-4,743	-2,944	-1,877	-5,105	2,547	6,125	2,697	-10,105	-6,277	-5,676
30%	-2,703	-2,903	-1,124	272	-848	-3,628	7,751	9,398	379	-9,877	-5,816	-5,015
40%	-2,825	-3,136	-486	517	-1,729	-1,195	6,474	8,293	-777	-9,910	-5,502	-6,618
50%	-2,763	-2,576	-703	878	-2,144	2,106	9,403	7,073	-1,235	-9,439	-5,250	-3,731
60%	-2,386	-1,670	-948	-656	1,186	2,102	7,516	4,057	-1,751	-8,500	-4,842	-2,172
70%	-1,797	-280	-2,234	-1,504	3,387	2,766	6,138	2,683	-1,362	-7,084	-3,835	-1,133
80%	-1,637	529	-2,048	-247	2,569	3,478	3,900	1,564	-924	-5,512	-2,955	-552
90%	-1,616	285	-701	-849	34	2,653	1,882	413	-544	-2,067	-383	-324
Long Term												
Full Simulation Period[a]	-2,103	-1,507	-1,313	-80	535	548	4,787	4,834	308	-7,440	-4,559	-3,563
Water Year Types[b]												
Wet (32%)	-2,181	-1,738	-1,212	-187	-1,417	-2,007	3,115	6,073	2,189	-7,082	-5,006	-5,707
Above Normal (15%)	-1,446	-2,326	-2,752	783	904	-1,309	6,115	6,018	238	-10,241	-6,893	-6,034
Below Normal (17%)	-2,977	-1,836	-1,077	816	920	2,288	8,536	6,723	-811	-9,359	-6,412	-3,784
Dry (22%)	-1,679	-756	-1,223	-330	2,378	3,498	5,705	2,517	-1,745	-7,479	-4,068	-743
Critical (15%)	-2,209	-931	-501	-1,382	1,179	1,486	1,331	2,235	690	-3,119	169	-421

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-20-25. Sacramento River at Freeport, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,520	20,933	48,723	65,933	70,538	64,077	49,290	34,057	18,835	24,508	18,024	29,045
20%	13,547	17,929	34,308	58,498	65,197	55,065	37,063	22,075	16,545	24,006	17,293	26,992
30%	13,136	16,559	22,188	40,921	51,209	43,781	23,035	15,989	15,632	23,370	16,788	23,595
40%	12,921	15,186	18,361	27,468	44,426	32,715	20,117	12,751	14,648	22,549	16,393	21,918
50%	12,316	14,012	15,967	22,991	34,267	25,193	15,145	12,049	13,752	21,553	15,960	12,912
60%	11,349	12,014	14,434	20,308	24,198	21,452	12,276	11,371	13,439	20,296	15,441	10,782
70%	10,225	9,917	13,741	17,513	18,833	18,890	11,546	11,024	12,865	18,346	14,345	9,219
80%	9,117	8,522	11,963	13,741	15,997	15,259	11,288	9,850	12,103	16,208	13,211	8,105
90%	7,641	7,513	9,061	12,265	12,542	11,743	10,225	8,840	11,110	12,429	9,280	7,714
Long Term												
Full Simulation Period[a]	11,857	14,692	22,789	32,496	38,028	33,164	22,892	16,422	15,098	20,020	15,039	16,857
Water Year Types[b]												
Wet (32%)	13,355	19,308	36,987	52,716	59,754	51,011	37,588	24,615	18,807	21,644	16,212	27,309
Above Normal (15%)	11,937	15,972	22,622	40,339	47,678	45,122	24,993	18,772	16,266	22,945	17,635	21,102
Below Normal (17%)	12,208	13,094	16,708	22,575	31,522	22,944	17,199	12,531	14,112	20,734	16,382	12,399
Dry (22%)	10,572	11,964	15,185	17,404	21,083	20,677	12,978	11,558	12,882	19,182	14,498	8,713
Critical (15%)	10,051	9,364	10,694	15,056	14,311	13,190	10,460	8,156	10,369	14,003	9,143	7,386

Alternative 9 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,971	21,250	46,631	65,975	70,337	62,152	45,743	33,879	18,050	24,766	17,338	30,812
20%	13,669	18,293	30,250	56,489	62,985	51,614	32,231	22,007	16,893	23,064	16,990	27,631
30%	12,762	16,764	20,955	38,859	49,011	39,372	22,730	17,566	15,447	21,695	16,727	23,592
40%	12,072	15,088	17,595	24,917	42,115	29,448	19,888	15,709	14,848	20,852	16,351	21,265
50%	11,054	14,229	15,386	21,480	30,823	23,761	15,964	14,420	14,067	19,258	15,907	13,301
60%	9,277	11,553	14,421	18,142	22,899	20,707	13,091	13,101	13,674	18,136	14,947	11,623
70%	8,857	10,096	13,536	14,656	18,541	18,248	12,134	11,880	13,066	16,944	13,794	8,949
80%	8,033	9,345	11,065	13,442	15,309	15,079	11,342	11,108	11,745	14,376	12,128	8,000
90%	7,141	7,979	9,476	11,743	11,747	11,470	10,658	8,401	10,762	12,358	9,880	7,675
Long Term												
Full Simulation Period[a]	11,040	14,857	22,056	30,981	36,798	31,589	22,161	17,586	15,056	18,977	14,717	17,115
Water Year Types[b]												
Wet (32%)	12,995	19,211	35,156	51,122	58,235	48,936	35,382	24,818	18,763	21,110	16,002	28,313
Above Normal (15%)	10,443	15,739	21,664	38,328	46,159	42,570	23,827	19,159	16,516	22,429	16,923	21,040
Below Normal (17%)	10,675	13,731	16,471	21,200	29,871	21,639	16,992	14,326	13,812	19,261	15,909	12,595
Dry (22%)	10,395	12,232	14,908	16,238	20,219	19,500	13,796	14,479	12,997	17,207	13,565	8,486
Critical (15%)	8,797	9,794	11,306	13,523	13,939	12,767	10,428	8,806	10,102	13,225	10,063	7,147

Alternative 9 (LLT) minus No Action Alternative (LLT)

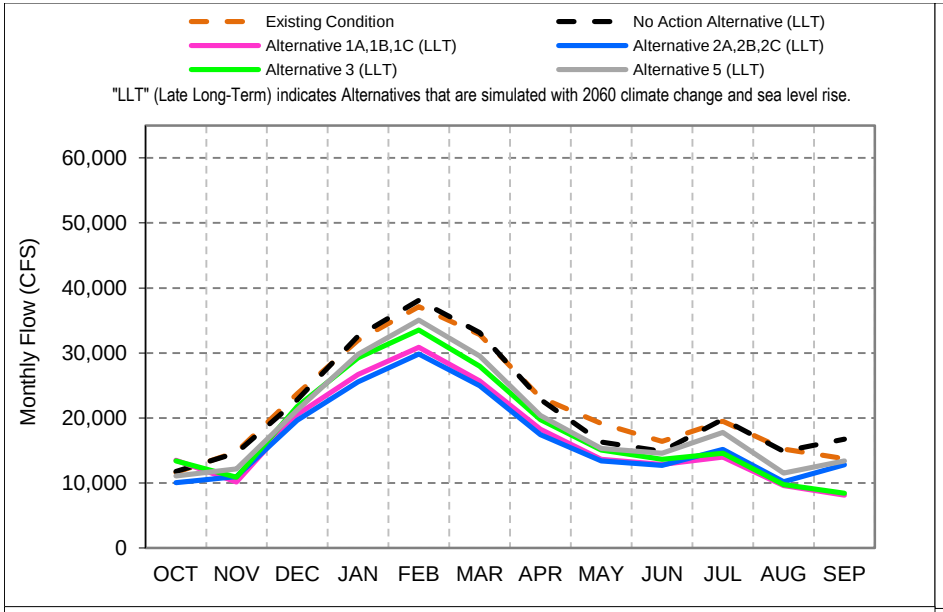
	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	450	318	**-2,091**	42	**-201**	**-1,924**	**-3,547**	**-178**	**-784**	258	**-686**	1,767
20%	122	364	**-4,058**	**-2,009**	**-2,212**	**-3,451**	**-4,831**	**-68**	347	**-942**	**-303**	639
30%	**-374**	205	**-1,233**	**-2,062**	**-2,198**	**-4,408**	**-305**	1,577	**-186**	**-1,676**	**-62**	**-4**
40%	**-848**	**-98**	**-766**	**-2,552**	**-2,310**	**-3,267**	**-229**	2,958	199	**-1,698**	**-42**	**-652**
50%	**-1,262**	217	**-581**	**-1,511**	**-3,444**	**-1,432**	818	2,371	315	**-2,295**	**-53**	390
60%	**-2,072**	**-462**	**-13**	**-2,167**	**-1,299**	**-745**	815	1,730	235	**-2,160**	**-494**	841
70%	**-1,368**	179	**-205**	**-2,857**	**-293**	**-642**	588	856	201	**-1,402**	**-551**	**-270**
80%	**-1,084**	824	**-897**	**-299**	**-687**	**-180**	54	1,258	**-358**	**-1,832**	**-1,083**	**-105**
90%	**-500**	466	415	**-522**	**-796**	**-273**	433	**-439**	**-347**	**-71**	600	**-39**
Long Term												
Full Simulation Period[a]	**-817**	166	**-733**	**-1,515**	**-1,230**	**-1,574**	**-731**	1,164	**-42**	**-1,044**	**-322**	258
Water Year Types[b]												
Wet (32%)	**-360**	**-96**	**-1,831**	**-1,594**	**-1,519**	**-2,075**	**-2,206**	204	**-44**	**-534**	**-210**	1,005
Above Normal (15%)	**-1,494**	**-233**	**-958**	**-2,012**	**-1,520**	**-2,552**	**-1,165**	387	250	**-516**	**-712**	**-63**
Below Normal (17%)	**-1,533**	637	**-237**	**-1,375**	**-1,651**	**-1,305**	**-207**	1,795	**-300**	**-1,473**	**-473**	195
Dry (22%)	**-177**	268	**-277**	**-1,165**	**-864**	**-1,177**	817	2,921	115	**-1,975**	**-933**	**-228**
Critical (15%)	**-1,254**	430	612	**-1,533**	**-372**	**-423**	**-32**	649	**-267**	**-778**	920	**-239**

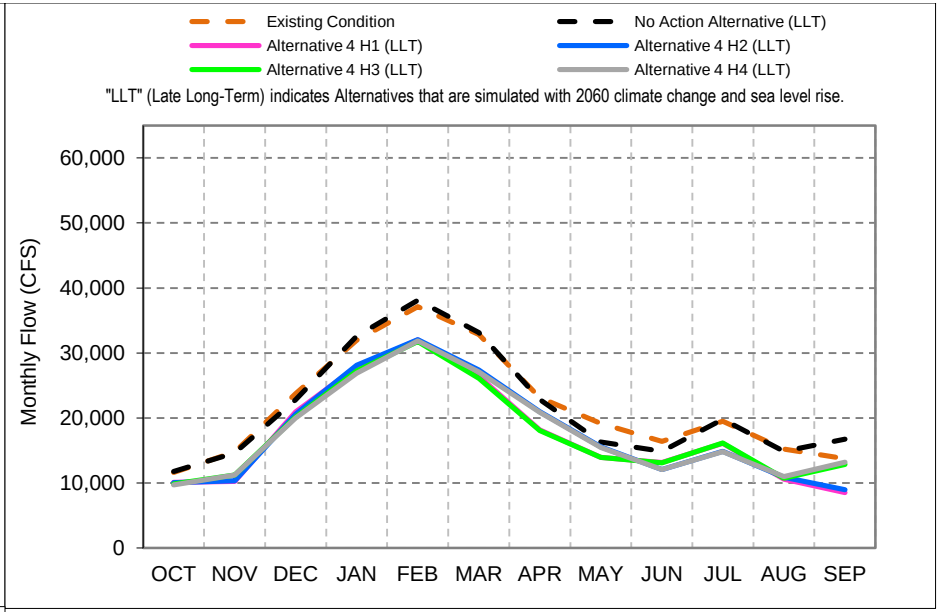
Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

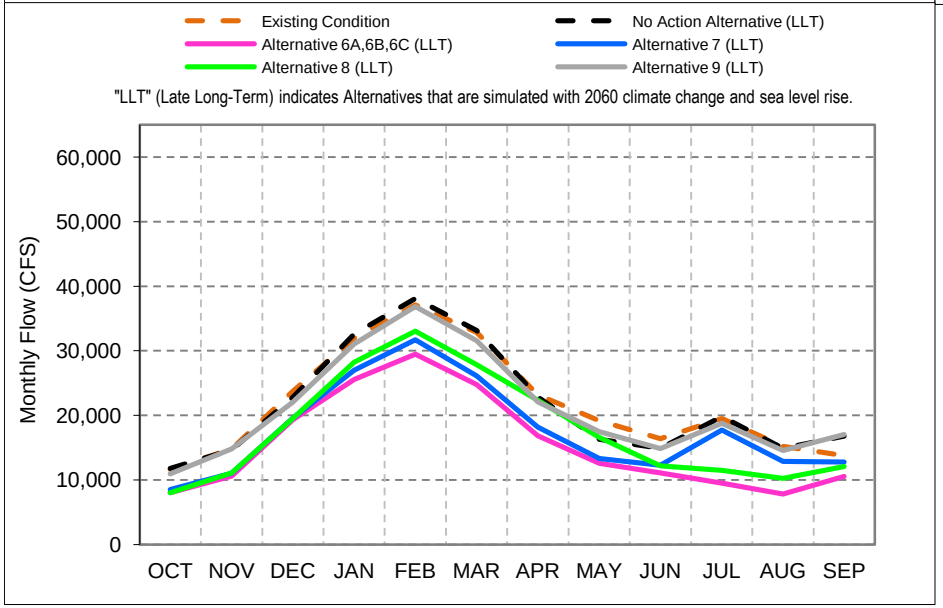
a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

C.21. Sacramento River Flow downstream of North delta Diversion



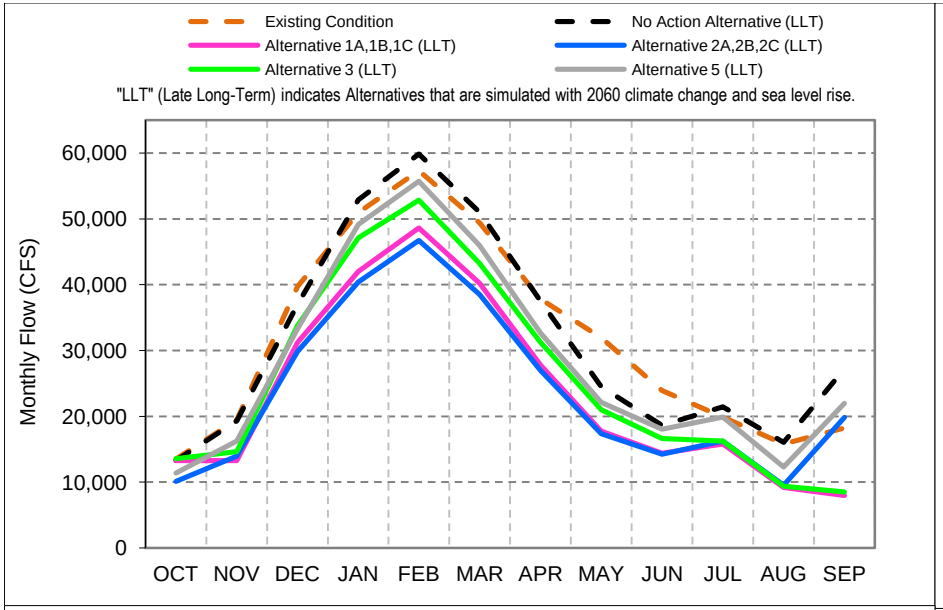


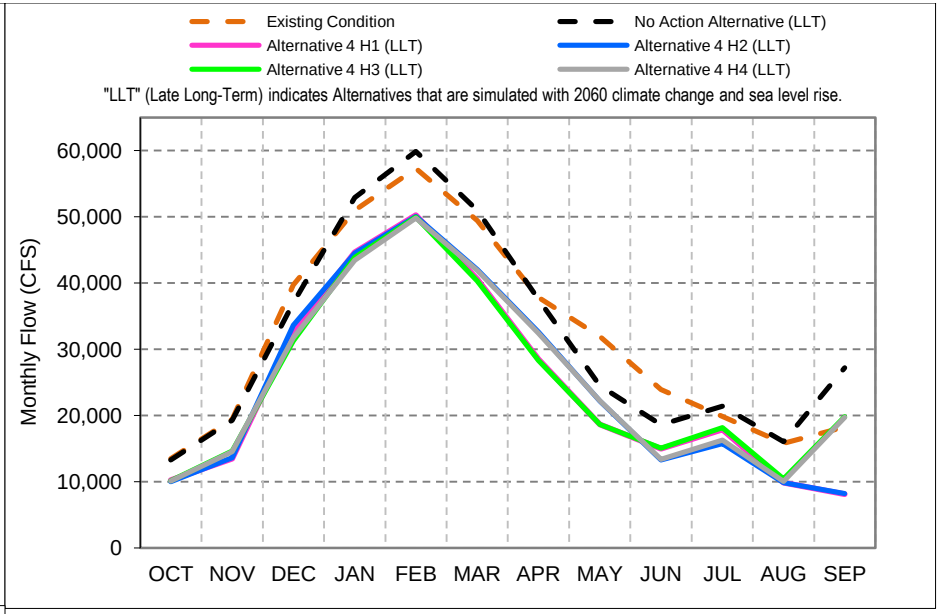


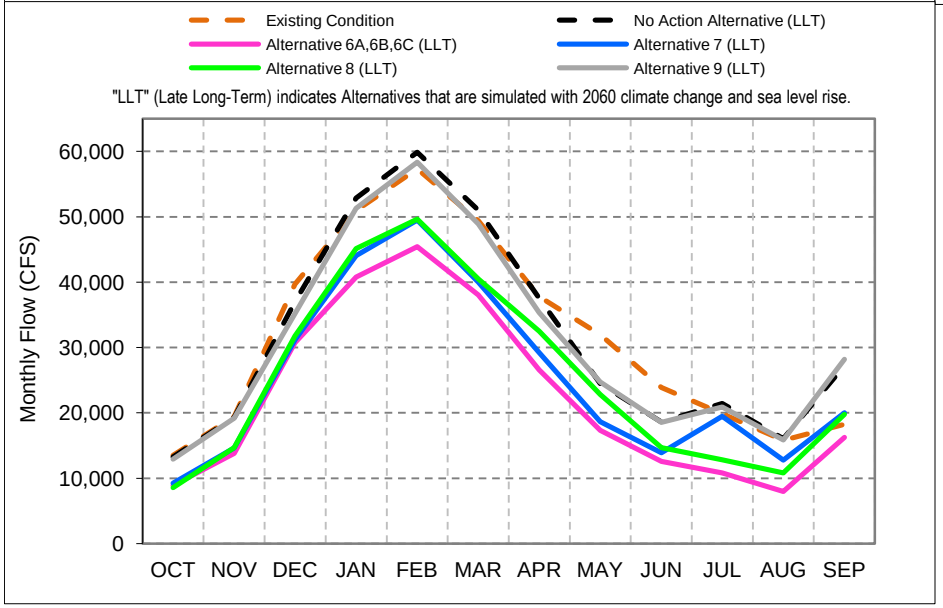
Alternative 4 Scenario Definitions:

H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

Figure C-21-1. Sacramento River d/s of North Delta Diversion, Long-Term Average Flow





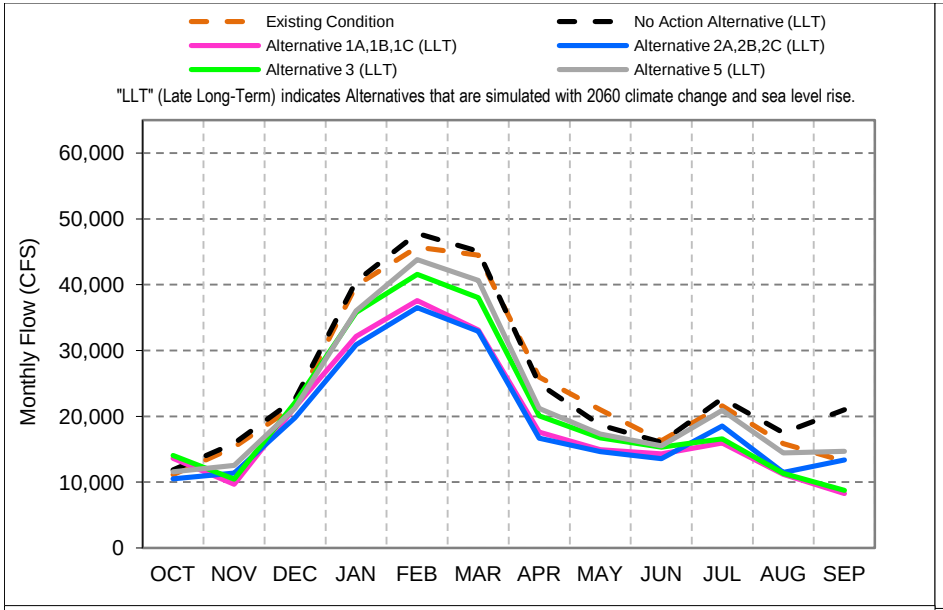


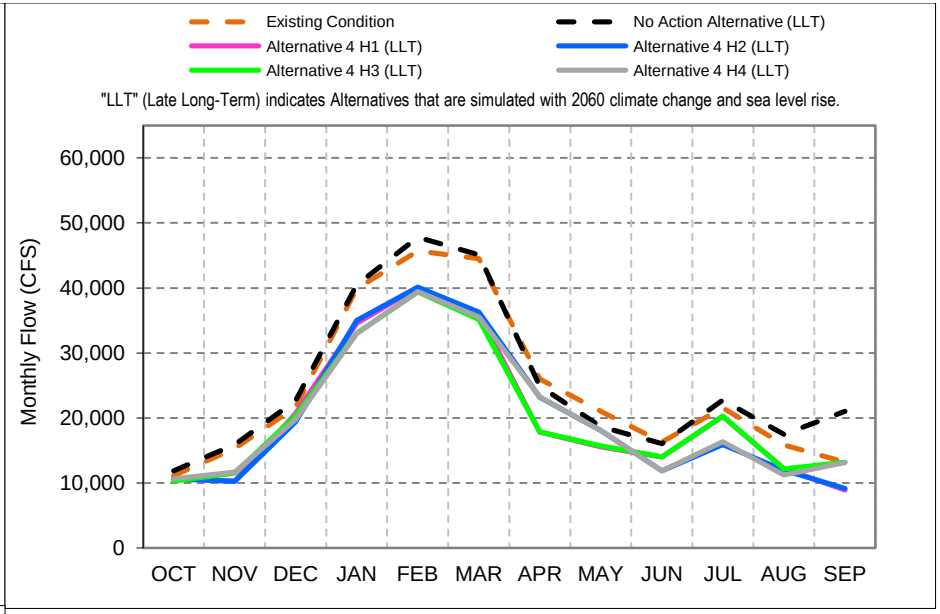
Alternative 4 Scenario Definitions:

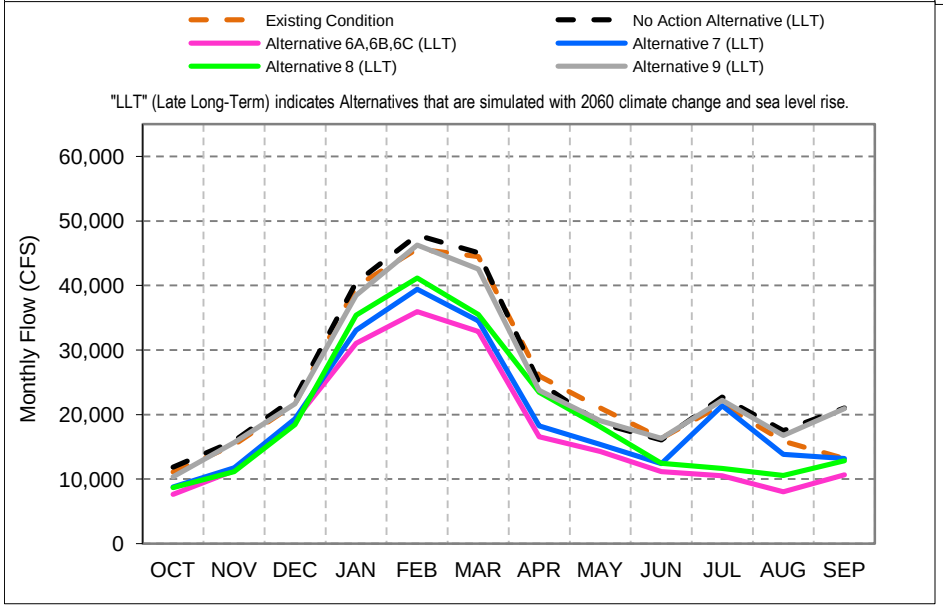
H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-21-2. Sacramento River d/s of North Delta Diversion, Wet Year* Average Flow





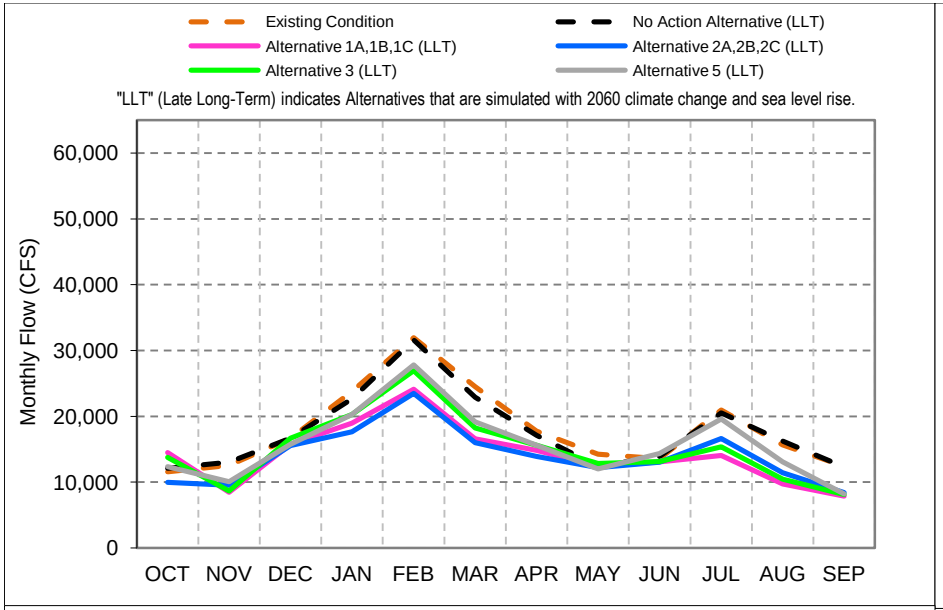


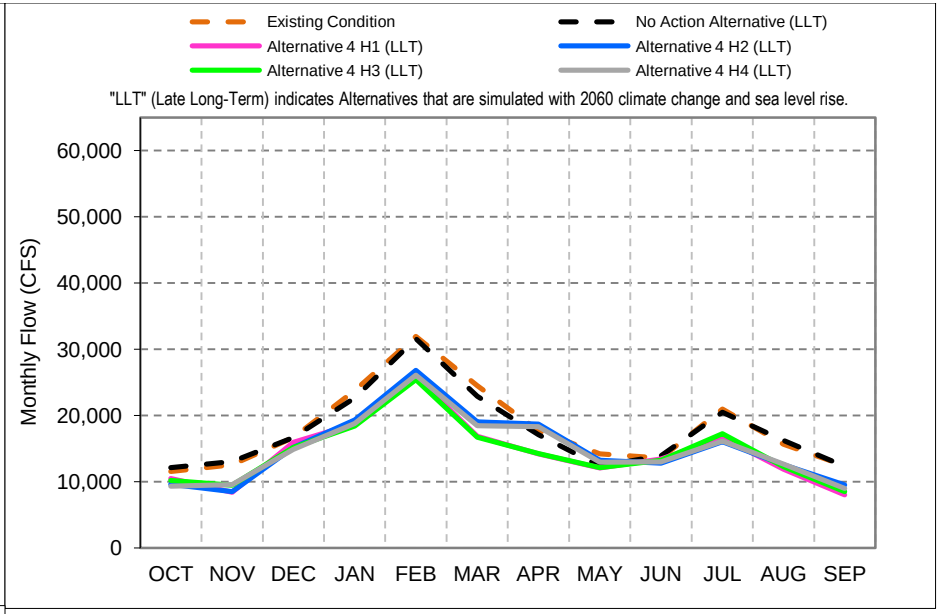
Alternative 4 Scenario Definitions:

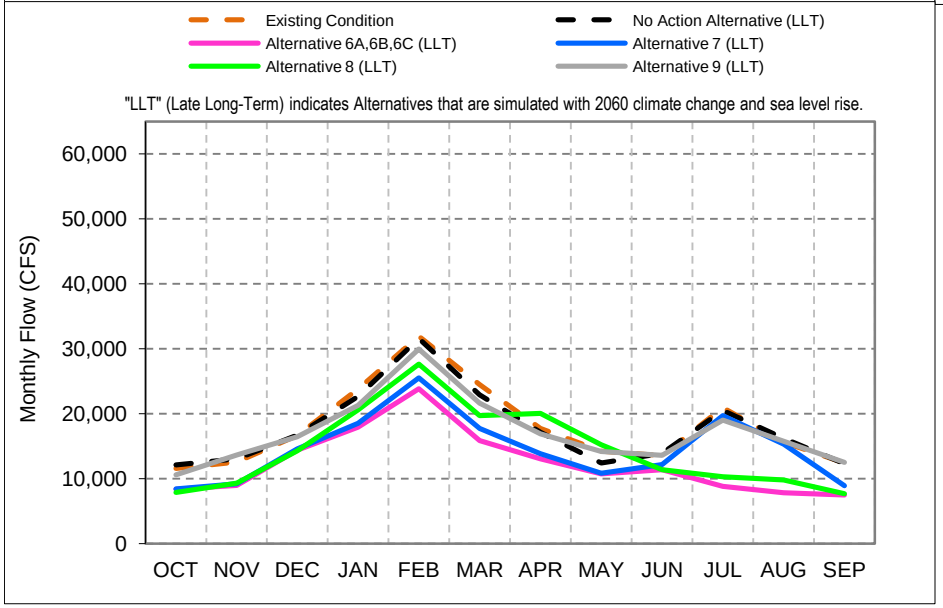
H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-21-3. Sacramento River d/s of North Delta Diversion, Above Normal Year* Average Flow





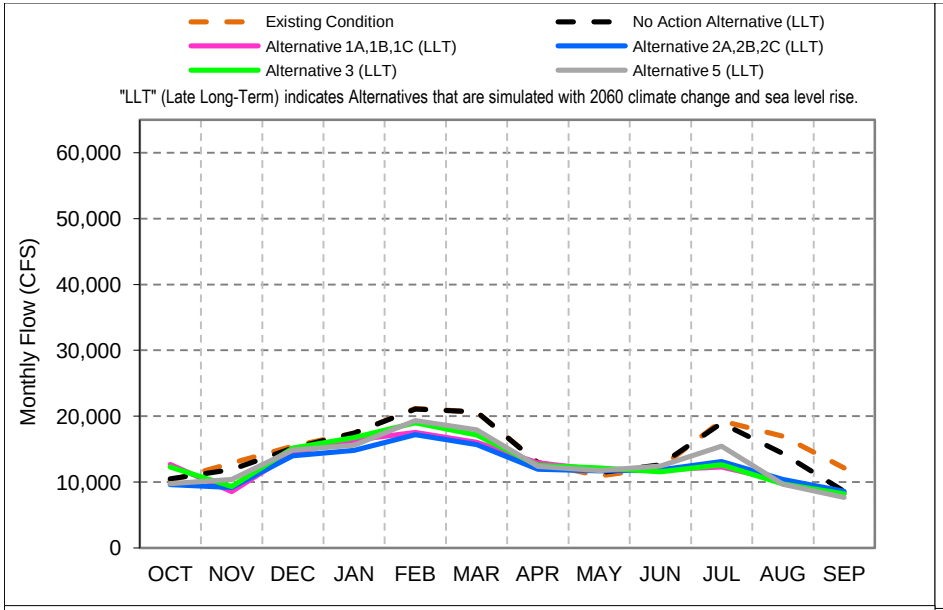


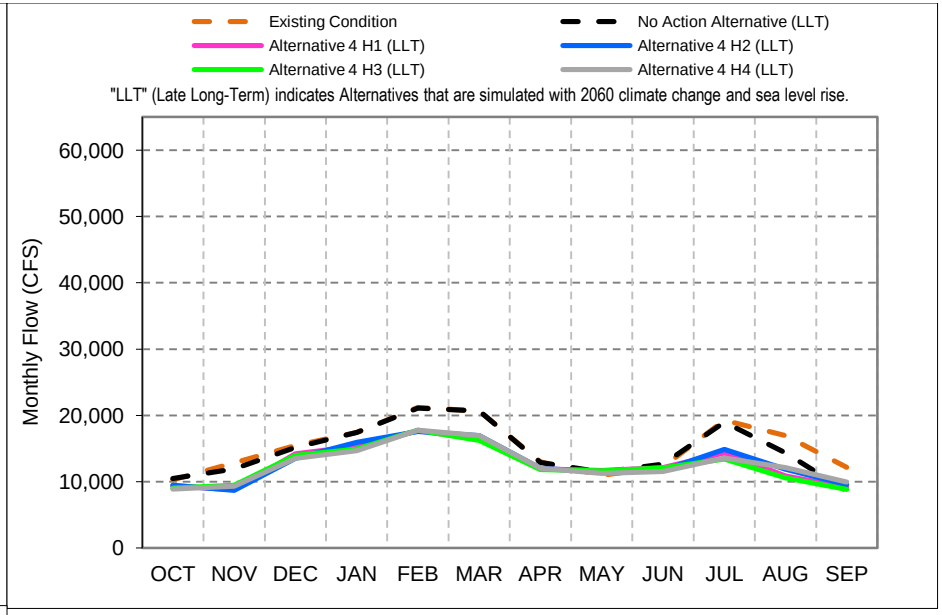
Alternative 4 Scenario Definitions:

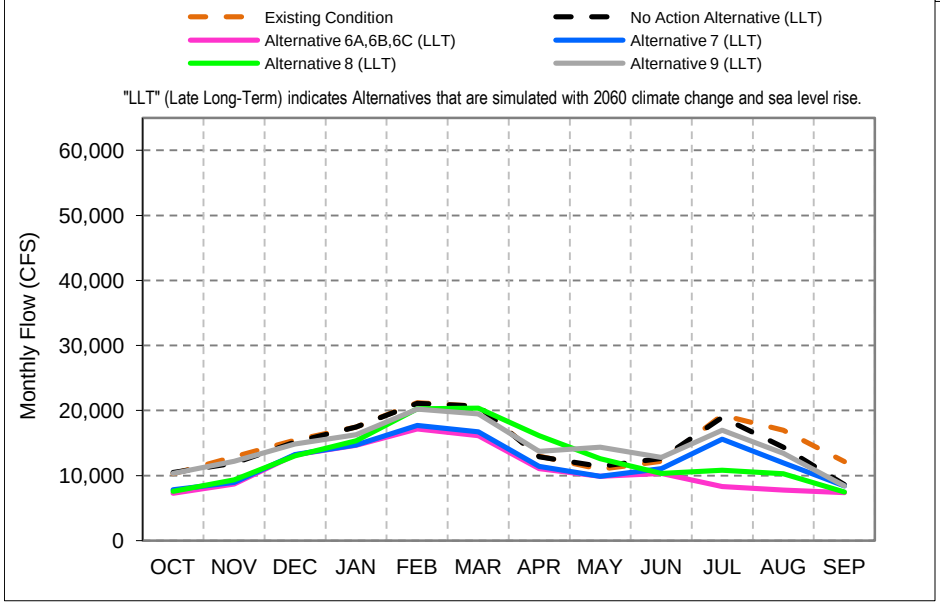
H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-21-4. Sacramento River d/s of North Delta Diversion, Below Normal Year* Average Flow





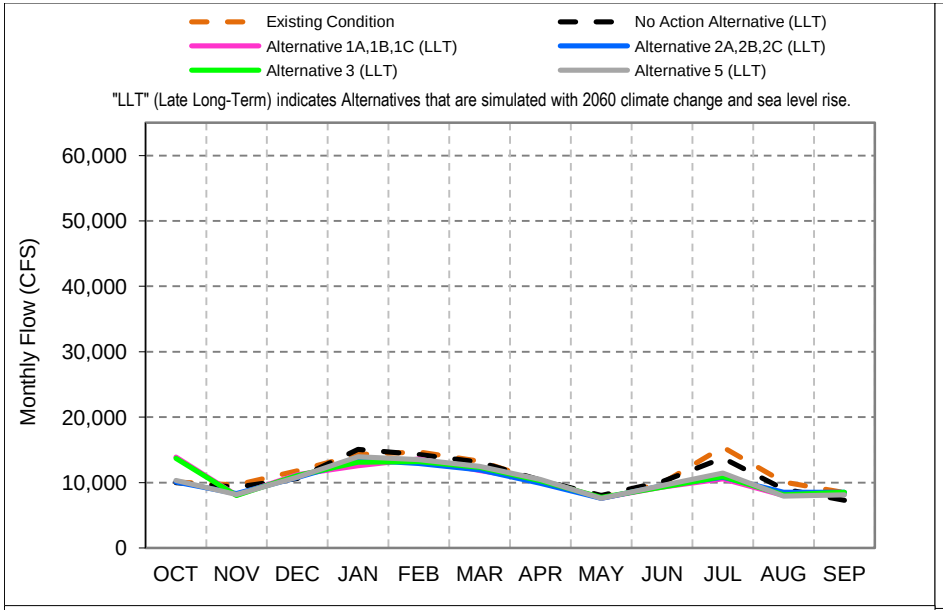


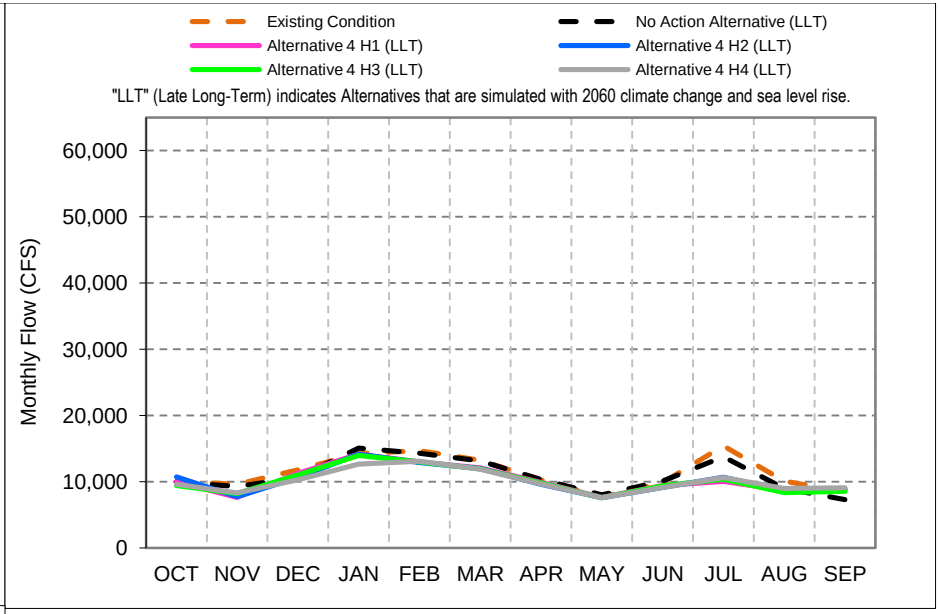
Alternative 4 Scenario Definitions:

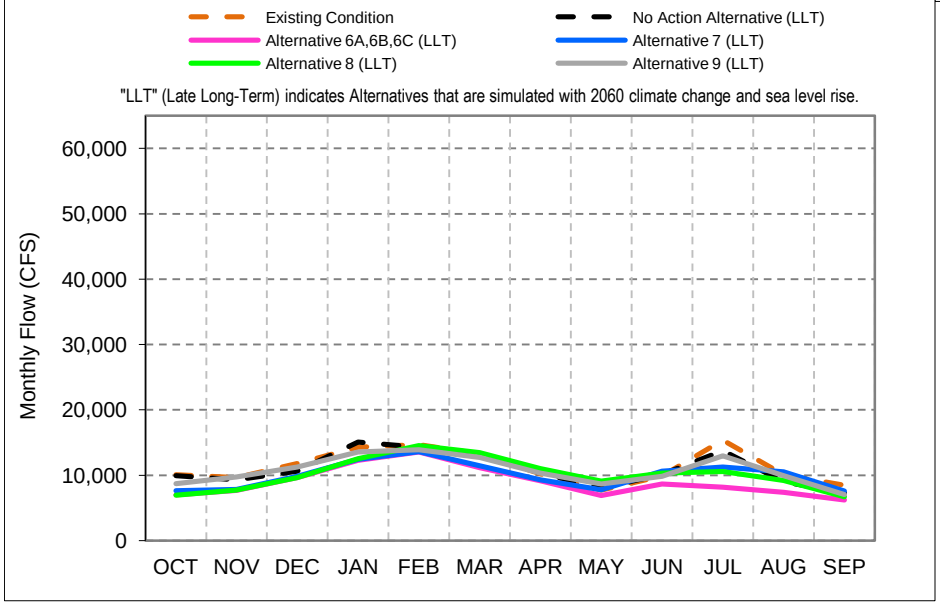
H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-21-5. Sacramento River d/s of North Delta Diversion, Dry Year* Average Flow







Alternative 4 Scenario Definitions:

H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-21-6. Sacramento River d/s of North Delta Diversion, Critical Year* Average Flow

Table C-21-1. Sacramento River d/s of North Delta Diversion, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	15,329	24,384	51,165	63,679	68,541	61,159	50,180	41,880	25,859	23,322	17,874	19,486
20%	13,687	15,781	36,208	56,070	61,018	51,797	38,440	27,790	20,184	22,492	17,435	17,016
30%	12,785	14,510	24,871	41,125	51,014	43,086	23,478	18,536	15,022	21,154	16,777	14,001
40%	11,683	13,507	18,359	30,974	43,531	33,753	20,474	15,172	13,712	20,188	16,461	13,567
50%	11,184	12,156	16,368	24,823	33,515	27,145	16,135	13,545	13,141	19,667	16,023	13,126
60%	10,548	11,106	14,969	19,554	24,680	22,020	13,220	11,917	12,500	19,434	15,547	12,695
70%	9,710	10,791	12,925	15,748	19,908	19,142	11,953	10,835	12,152	19,046	15,080	11,948
80%	8,925	9,564	11,502	13,415	14,871	15,333	11,188	10,027	11,496	17,041	13,312	10,972
90%	7,603	8,404	9,849	12,542	13,019	11,580	9,749	8,774	10,147	14,446	9,996	7,967
Long Term												
Full Simulation Period[a]	11,613	14,788	23,727	31,971	37,116	32,834	23,169	19,175	16,412	19,520	15,210	13,751
Water Year Types[b]												
Wet (32%)	13,505	19,447	39,708	50,961	57,314	49,416	37,809	31,948	23,900	19,876	15,816	18,254
Above Normal (15%)	11,118	15,309	21,663	39,863	45,676	44,495	25,979	21,021	16,309	21,574	15,877	13,198
Below Normal (17%)	11,557	12,574	16,678	23,781	31,934	24,489	17,752	14,227	13,576	20,953	15,643	12,427
Dry (22%)	10,279	12,868	15,442	17,444	21,202	20,656	12,990	10,959	12,222	19,272	16,965	12,155
Critical (15%)	10,073	9,633	11,816	14,281	14,708	13,245	10,229	7,749	9,884	15,397	10,095	8,485

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,435	20,962	48,944	66,024	70,601	64,123	49,287	33,970	18,605	24,301	17,873	28,941
20%	13,466	17,873	34,439	58,570	65,193	55,046	37,041	22,009	16,346	23,779	17,155	26,906
30%	13,050	16,500	22,195	41,078	51,329	43,737	22,974	15,877	15,446	23,144	16,643	23,495
40%	12,844	15,147	18,423	27,661	44,444	32,669	20,071	12,621	14,435	22,326	16,248	21,825
50%	12,222	13,967	15,978	23,077	34,352	25,226	15,091	11,917	13,529	21,328	15,814	12,816
60%	11,262	11,948	14,363	20,433	24,240	21,431	12,186	11,232	13,181	20,083	15,297	10,709
70%	10,150	9,878	13,693	17,598	18,831	18,863	11,465	10,915	12,650	18,123	14,198	9,131
80%	9,031	8,450	11,957	13,731	15,981	15,235	11,202	9,724	11,864	15,988	13,056	8,010
90%	7,567	7,451	8,981	12,260	12,487	11,683	10,128	8,700	10,906	12,214	9,128	7,614
Long Term												
Full Simulation Period[a]	11,776	14,647	22,784	32,595	38,087	33,134	22,826	16,295	14,880	19,797	14,891	16,763
Water Year Types[b]												
Wet (32%)	13,277	19,285	37,022	52,878	59,847	50,993	37,543	24,500	18,603	21,425	16,064	27,212
Above Normal (15%)	11,864	15,925	22,629	40,484	47,786	45,088	24,931	18,657	16,051	22,727	17,491	21,006
Below Normal (17%)	12,124	13,037	16,692	22,653	31,592	22,915	17,128	12,394	13,898	20,513	16,232	12,306
Dry (22%)	10,487	11,914	15,159	17,451	21,107	20,650	12,904	11,427	12,656	18,957	14,351	8,620
Critical (15%)	9,964	9,295	10,632	15,073	14,291	13,137	10,365	8,011	10,123	13,767	8,996	7,292

No Action Alternative (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-894	-3,422	-2,221	2,345	2,060	2,964	-892	-7,910	-7,254	980	-1	9,455
20%	-221	2,091	-1,768	2,499	4,175	3,249	-1,399	-5,780	-3,837	1,287	-280	9,890
30%	265	1,990	-2,676	-47	315	650	-504	-2,659	425	1,990	-133	9,494
40%	1,161	1,640	64	-3,313	914	-1,084	-403	-2,551	723	2,139	-213	8,258
50%	1,038	1,811	-390	-1,745	837	-1,919	-1,045	-1,627	388	1,661	-208	-309
60%	714	842	-605	879	-440	-589	-1,034	-685	681	649	-249	-1,986
70%	441	-913	768	1,850	-1,077	-279	-487	80	498	-924	-882	-2,817
80%	106	-1,114	455	316	1,109	-98	14	-303	368	-1,053	-256	-2,963
90%	-36	-953	-868	-281	-533	102	379	-73	759	-2,232	-868	-354
Long Term												
Full Simulation Period[a]	163	-141	-943	624	972	301	-343	-2,879	-1,532	277	-319	3,012
Water Year Types[b]												
Wet (32%)	-227	-162	-2,686	1,917	2,533	1,577	-265	-7,448	-5,296	1,549	248	8,959
Above Normal (15%)	745	617	966	622	2,110	593	-1,048	-2,364	-258	1,153	1,614	7,808
Below Normal (17%)	566	463	15	-1,128	-342	-1,574	-623	-1,833	322	-440	590	-121
Dry (22%)	207	-954	-284	7	-95	-7	-86	468	433	-315	-2,614	-3,535
Critical (15%)	-109	-338	-1,184	792	-417	-108	136	262	239	-1,630	-1,098	-1,192

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-21-2. Sacramento River d/s of North Delta Diversion, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	15,329	24,384	51,165	63,679	68,541	61,159	50,180	41,880	25,859	23,322	17,874	19,486
20%	13,687	15,781	36,208	56,070	61,018	51,797	38,440	27,790	20,184	22,492	17,435	17,016
30%	12,785	14,510	24,871	41,125	51,014	43,086	23,478	18,536	15,022	21,154	16,777	14,001
40%	11,683	13,507	18,359	30,974	43,531	33,753	20,474	15,172	13,712	20,188	16,461	13,567
50%	11,184	12,156	16,368	24,823	33,515	27,145	16,135	13,545	13,141	19,667	16,023	13,126
60%	10,548	11,106	14,969	19,554	24,680	22,020	13,220	11,917	12,500	19,434	15,547	12,695
70%	9,710	10,791	12,925	15,748	19,908	19,142	11,953	10,835	12,152	19,046	15,080	11,948
80%	8,925	9,564	11,502	13,415	14,871	15,333	11,188	10,027	11,496	17,041	13,312	10,972
90%	7,603	8,404	9,849	12,542	13,019	11,580	9,749	8,774	10,147	14,446	9,996	7,967
Long Term												
Full Simulation Period[a]	11,613	14,788	23,727	31,971	37,116	32,834	23,169	19,175	16,412	19,520	15,210	13,751
Water Year Types[b]												
Wet (32%)	13,505	19,447	39,708	50,961	57,314	49,416	37,809	31,948	23,900	19,876	15,816	18,254
Above Normal (15%)	11,118	15,309	21,663	39,863	45,676	44,495	25,979	21,021	16,309	21,574	15,877	13,198
Below Normal (17%)	11,557	12,574	16,678	23,781	31,934	24,489	17,752	14,227	13,576	20,953	15,643	12,427
Dry (22%)	10,279	12,868	15,442	17,444	21,202	20,656	12,990	10,959	12,222	19,272	16,965	12,155
Critical (15%)	10,073	9,633	11,816	14,281	14,708	13,245	10,229	7,749	9,884	15,397	10,095	8,485

Alternative 1A,1B,1C (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	20,266	17,331	38,958	54,252	61,703	54,353	37,576	21,417	15,719	19,768	12,224	9,398
20%	18,336	8,983	27,023	44,343	52,554	41,185	22,140	14,896	15,036	17,569	10,837	8,391
30%	16,549	8,440	20,615	29,862	37,584	30,580	16,919	13,104	13,662	16,213	10,135	7,938
40%	14,902	8,410	17,783	22,106	32,698	20,871	14,682	12,307	12,778	14,901	9,509	7,795
50%	13,511	8,357	16,223	20,385	22,062	17,396	13,582	11,915	12,331	13,716	8,908	7,772
60%	11,058	8,231	14,573	18,073	18,179	15,704	12,586	11,336	11,936	12,711	8,476	7,725
70%	9,030	8,042	13,653	16,026	15,957	14,816	11,954	10,876	11,376	10,808	8,070	7,683
80%	8,837	7,748	11,937	13,620	14,297	12,663	10,877	9,919	10,848	9,877	7,925	7,618
90%	7,161	7,199	9,361	12,130	11,841	10,925	10,366	8,285	9,965	8,496	7,724	7,418
Long Term												
Full Simulation Period[a]	13,500	10,126	20,525	26,698	30,880	25,682	18,279	13,663	12,847	13,993	9,625	8,123
Water Year Types[b]												
Wet (32%)	13,281	13,258	31,205	42,014	48,632	40,210	27,818	17,764	14,397	15,809	9,210	7,963
Above Normal (15%)	13,607	9,667	21,404	32,151	37,562	33,116	17,618	14,932	14,276	15,970	11,175	8,249
Below Normal (17%)	14,504	8,487	15,751	18,962	24,113	16,602	14,856	12,411	13,069	14,056	9,744	7,900
Dry (22%)	12,687	8,551	14,448	16,372	17,556	16,014	12,911	11,868	11,844	12,278	10,152	8,330
Critical (15%)	13,918	8,074	11,195	12,576	13,618	11,863	10,315	7,660	9,306	10,579	8,047	8,298

Alternative 1A,1B,1C (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,937	-7,052	-12,207	-9,427	-6,838	-6,805	-12,603	-20,462	-10,140	-3,554	-5,651	-10,088
20%	4,649	-6,798	-9,185	-11,727	-8,464	-10,613	-16,300	-12,893	-5,147	-4,923	-6,597	-8,625
30%	3,764	-6,069	-4,256	-11,263	-13,430	-12,506	-6,559	-5,432	-1,360	-4,940	-6,642	-6,063
40%	3,219	-5,097	-576	-8,868	-10,833	-12,882	-5,792	-2,864	-934	-5,287	-6,952	-5,772
50%	2,327	-3,799	-145	-4,438	-11,453	-9,749	-2,554	-1,630	-810	-5,951	-7,115	-5,354
60%	510	-2,875	-396	-1,481	-6,501	-6,315	-633	-581	-564	-6,723	-7,071	-4,970
70%	-680	-2,749	729	278	-3,951	-4,326	1	41	-776	-8,238	-7,010	-4,264
80%	-88	-1,815	434	205	-574	-2,670	-311	-108	-648	-7,164	-5,387	-3,354
90%	-442	-1,205	-488	-411	-1,179	-655	617	-488	-182	-5,951	-2,273	-549
Long Term												
Full Simulation Period[a]	1,888	-4,662	-3,201	-5,273	-6,235	-7,152	-4,890	-5,512	-3,564	-5,527	-5,585	-5,627
Water Year Types[b]												
Wet (32%)	-223	-6,189	-8,503	-8,947	-8,682	-9,206	-9,990	-14,184	-9,502	-4,067	-6,605	-10,291
Above Normal (15%)	2,489	-5,641	-259	-7,712	-8,114	-11,379	-8,360	-6,089	-2,032	-5,603	-4,702	-4,950
Below Normal (17%)	2,947	-4,087	-927	-4,819	-7,820	-7,886	-2,895	-1,816	-506	-6,897	-5,899	-4,527
Dry (22%)	2,407	-4,318	-994	-1,072	-3,646	-4,642	-79	909	-379	-6,994	-6,813	-3,825
Critical (15%)	3,845	-1,559	-621	-1,705	-1,090	-1,382	86	-89	-578	-4,818	-2,048	-187

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-21-3. Sacramento River d/s of North Delta Diversion, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	15,329	24,384	51,165	63,679	68,541	61,159	50,180	41,880	25,859	23,322	17,874	19,486
20%	13,687	15,781	36,208	56,070	61,018	51,797	38,440	27,790	20,184	22,492	17,435	17,016
30%	12,785	14,510	24,871	41,125	51,014	43,086	23,478	18,536	15,022	21,154	16,777	14,001
40%	11,683	13,507	18,359	30,974	43,531	33,753	20,474	15,172	13,712	20,188	16,461	13,567
50%	11,184	12,156	16,368	24,823	33,515	27,145	16,135	13,545	13,141	19,667	16,023	13,126
60%	10,548	11,106	14,969	19,554	24,680	22,020	13,220	11,917	12,500	19,434	15,547	12,695
70%	9,710	10,791	12,925	15,748	19,908	19,142	11,953	10,835	12,152	19,046	15,080	11,948
80%	8,925	9,564	11,502	13,415	14,871	15,333	11,188	10,027	11,496	17,041	13,312	10,972
90%	7,603	8,404	9,849	12,542	13,019	11,580	9,749	8,774	10,147	14,446	9,996	7,967
Long Term												
Full Simulation Period[a]	11,613	14,788	23,727	31,971	37,116	32,834	23,169	19,175	16,412	19,520	15,210	13,751
Water Year Types[b]												
Wet (32%)	13,505	19,447	39,708	50,961	57,314	49,416	37,809	31,948	23,900	19,876	15,816	18,254
Above Normal (15%)	11,118	15,309	21,663	39,863	45,676	44,495	25,979	21,021	16,309	21,574	15,877	13,198
Below Normal (17%)	11,557	12,574	16,678	23,781	31,934	24,489	17,752	14,227	13,576	20,953	15,643	12,427
Dry (22%)	10,279	12,868	15,442	17,444	21,202	20,656	12,990	10,959	12,222	19,272	16,965	12,155
Critical (15%)	10,073	9,633	11,816	14,281	14,708	13,245	10,229	7,749	9,884	15,397	10,095	8,485

Alternative 2A,2B,2C (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,467	14,904	36,988	51,984	58,527	51,857	35,254	21,440	15,489	22,289	13,380	21,177
20%	12,783	12,472	27,046	42,789	51,149	38,422	21,316	14,674	14,347	18,591	11,712	20,129
30%	10,641	10,714	19,226	28,647	36,049	29,035	15,654	12,860	13,472	17,577	10,921	15,362
40%	9,308	9,938	16,718	20,376	32,039	19,306	13,444	12,255	12,874	16,069	10,194	12,728
50%	9,036	8,886	14,858	18,686	21,220	17,107	12,091	11,663	12,271	15,373	9,551	11,723
60%	8,932	8,428	13,421	16,986	18,146	15,561	11,763	10,969	11,925	14,087	9,123	9,126
70%	8,819	8,269	12,845	14,400	15,568	14,251	10,992	10,528	11,388	11,646	8,584	7,853
80%	8,252	7,977	12,422	12,658	14,177	12,578	10,416	9,459	10,755	10,207	8,189	7,708
90%	7,103	7,031	9,059	11,454	11,424	10,775	9,940	8,030	9,267	8,758	7,894	7,434
Long Term												
Full Simulation Period[a]	10,038	10,963	19,671	25,562	29,834	24,952	17,434	13,405	12,733	15,159	10,184	12,821
Water Year Types[b]												
Wet (32%)	10,130	13,973	29,862	40,419	46,712	38,511	26,975	17,350	14,262	16,241	9,536	19,822
Above Normal (15%)	10,490	11,369	19,798	30,852	36,520	32,919	16,667	14,639	13,581	18,516	11,496	13,394
Below Normal (17%)	9,995	9,556	15,555	17,663	23,503	15,997	13,920	12,188	13,028	16,620	11,431	8,434
Dry (22%)	9,611	9,210	13,998	14,801	17,208	15,698	11,935	11,691	11,879	13,125	10,382	8,621
Critical (15%)	10,078	8,303	10,776	13,442	12,905	11,938	9,880	7,612	9,507	10,805	8,527	8,497

Alternative 2A,2B,2C (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-862	-9,479	-14,177	-11,694	-10,014	-9,302	-14,926	-20,440	-10,370	-1,033	-4,494	1,692
20%	-905	-3,310	-9,162	-13,281	-9,869	-13,375	-17,125	-13,115	-5,836	-3,901	-5,722	3,113
30%	-2,144	-3,796	-5,645	-12,477	-14,965	-14,051	-7,824	-5,676	-1,550	-3,577	-5,856	1,361
40%	-2,375	-3,569	-1,641	-10,598	-11,492	-14,447	-7,030	-2,917	-839	-4,119	-6,267	-839
50%	-2,147	-3,270	-1,510	-6,137	-12,296	-10,038	-4,045	-1,881	-871	-4,294	-6,471	-1,403
60%	-1,616	-2,678	-1,548	-2,568	-6,533	-6,458	-1,457	-948	-575	-5,347	-6,423	-3,569
70%	-891	-2,522	-80	-1,348	-4,340	-4,891	-961	-307	-764	-7,400	-6,496	-4,095
80%	-673	-1,587	920	-757	-695	-2,755	-772	-568	-740	-6,834	-5,122	-3,265
90%	-500	-1,373	-790	-1,088	-1,596	-805	192	-743	-881	-5,688	-2,102	-534
Long Term												
Full Simulation Period[a]	-1,575	-3,825	-4,056	-6,409	-7,281	-7,881	-5,735	-5,770	-3,679	-4,361	-5,026	-930
Water Year Types[b]												
Wet (32%)	-3,375	-5,474	-9,845	-10,542	-10,602	-10,905	-10,834	-14,598	-9,638	-3,635	-6,280	1,568
Above Normal (15%)	-628	-3,939	-1,865	-9,011	-9,157	-11,576	-9,312	-6,382	-2,728	-3,058	-4,381	196
Below Normal (17%)	-1,563	-3,017	-1,123	-6,117	-8,431	-8,492	-3,832	-2,039	-547	-4,332	-4,212	-3,993
Dry (22%)	-668	-3,658	-1,445	-2,643	-3,993	-4,958	-1,056	731	-344	-6,147	-6,584	-3,534
Critical (15%)	4	-1,330	-1,040	-839	-1,803	-1,307	-349	-138	-376	-4,592	-1,568	12

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-21-4. Sacramento River d/s of North Delta Diversion, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	15,329	24,384	51,165	63,679	68,541	61,159	50,180	41,880	25,859	23,322	17,874	19,486
20%	13,687	15,781	36,208	56,070	61,018	51,797	38,440	27,790	20,184	22,492	17,435	17,016
30%	12,785	14,510	24,871	41,125	51,014	43,086	23,478	18,536	15,022	21,154	16,777	14,001
40%	11,683	13,507	18,359	30,974	43,531	33,753	20,474	15,172	13,712	20,188	16,461	13,567
50%	11,184	12,156	16,368	24,823	33,515	27,145	16,135	13,545	13,141	19,667	16,023	13,126
60%	10,548	11,106	14,969	19,554	24,680	22,020	13,220	11,917	12,500	19,434	15,547	12,695
70%	9,710	10,791	12,925	15,748	19,908	19,142	11,953	10,835	12,152	19,046	15,080	11,948
80%	8,925	9,564	11,502	13,415	14,871	15,333	11,188	10,027	11,496	17,041	13,312	10,972
90%	7,603	8,404	9,849	12,542	13,019	11,580	9,749	8,774	10,147	14,446	9,996	7,967
Long Term												
Full Simulation Period[a]	11,613	14,788	23,727	31,971	37,116	32,834	23,169	19,175	16,412	19,520	15,210	13,751
Water Year Types[b]												
Wet (32%)	13,505	19,447	39,708	50,961	57,314	49,416	37,809	31,948	23,900	19,876	15,816	18,254
Above Normal (15%)	11,118	15,309	21,663	39,863	45,676	44,495	25,979	21,021	16,309	21,574	15,877	13,198
Below Normal (17%)	11,557	12,574	16,678	23,781	31,934	24,489	17,752	14,227	13,576	20,953	15,643	12,427
Dry (22%)	10,279	12,868	15,442	17,444	21,202	20,656	12,990	10,959	12,222	19,272	16,965	12,155
Critical (15%)	10,073	9,633	11,816	14,281	14,708	13,245	10,229	7,749	9,884	15,397	10,095	8,485

Alternative 3 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	19,937	18,682	43,566	59,945	64,907	56,123	41,913	27,868	18,345	21,062	12,550	10,509
20%	17,824	10,773	28,710	51,504	56,863	45,815	27,267	18,245	15,809	18,327	11,462	8,887
30%	16,152	9,020	21,144	34,522	43,833	34,797	18,922	14,369	14,624	17,205	10,011	7,986
40%	14,606	8,471	17,999	23,635	38,844	23,699	15,843	12,962	13,731	15,308	9,582	7,802
50%	13,490	8,412	16,361	21,133	24,897	19,642	13,414	12,074	12,488	14,047	8,886	7,772
60%	10,964	8,361	14,965	19,198	19,201	16,855	12,413	11,370	11,886	12,957	8,295	7,730
70%	9,066	8,273	14,037	15,596	16,784	15,512	11,797	10,931	11,353	11,342	8,088	7,704
80%	8,863	8,135	12,300	13,224	14,706	13,955	10,958	10,133	10,913	9,661	7,924	7,608
90%	7,302	7,812	9,374	12,004	12,246	11,369	10,327	8,286	9,956	8,544	7,742	7,406
Long Term												
Full Simulation Period[a]	13,415	10,873	21,751	29,237	33,535	27,969	19,772	15,096	13,660	14,566	9,751	8,421
Water Year Types[b]												
Wet (32%)	13,568	14,617	33,793	47,110	52,834	43,239	31,285	21,012	16,649	16,224	9,409	8,534
Above Normal (15%)	14,074	10,477	22,076	35,796	41,555	38,037	20,064	16,732	15,314	16,596	11,332	8,740
Below Normal (17%)	13,743	8,652	16,691	20,276	26,948	18,251	15,612	12,836	13,144	15,349	10,460	8,112
Dry (22%)	12,294	9,347	15,185	16,758	18,985	17,175	12,515	12,132	11,544	12,628	9,704	8,225
Critical (15%)	13,727	8,035	11,087	13,124	13,210	12,343	10,273	7,720	9,302	10,940	8,150	8,512

Alternative 3 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,608	-5,701	-7,600	-3,734	-3,633	-5,036	-8,266	-14,011	-7,514	-2,259	-5,324	-8,977
20%	4,137	-5,008	-7,498	-4,566	-4,155	-5,982	-11,174	-9,544	-4,375	-4,165	-5,972	-8,129
30%	3,368	-5,490	-3,727	-6,603	-7,181	-8,289	-4,556	-4,167	-398	-3,948	-6,766	-6,015
40%	2,923	-5,036	-360	-7,339	-4,686	-10,054	-4,631	-2,209	19	-4,879	-6,879	-5,765
50%	2,306	-3,744	-8	-3,690	-8,618	-7,503	-2,721	-1,471	-653	-5,620	-7,137	-5,354
60%	416	-2,745	-4	-357	-5,479	-5,165	-807	-547	-614	-6,477	-7,252	-4,965
70%	-644	-2,517	1,112	-151	-3,124	-3,630	-156	96	-799	-7,704	-6,993	-4,244
80%	-62	-1,429	798	-192	-166	-1,378	-230	105	-583	-7,380	-5,388	-3,364
90%	-301	-592	-475	-538	-774	-212	578	-488	-192	-5,902	-2,254	-561
Long Term												
Full Simulation Period[a]	1,802	-3,915	-1,976	-2,734	-3,580	-4,865	-3,397	-4,079	-2,752	-4,954	-5,460	-5,330
Water Year Types[b]												
Wet (32%)	63	-4,830	-5,915	-3,851	-4,480	-6,177	-6,523	-10,935	-7,251	-3,652	-6,407	-9,719
Above Normal (15%)	2,956	-4,832	413	-4,067	-4,122	-6,458	-5,915	-4,289	-995	-4,977	-4,545	-4,459
Below Normal (17%)	2,185	-3,922	13	-3,505	-4,986	-6,237	-2,140	-1,391	-431	-5,604	-5,183	-4,315
Dry (22%)	2,014	-3,521	-258	-686	-2,216	-3,481	-475	1,173	-678	-6,644	-7,261	-3,930
Critical (15%)	3,654	-1,597	-729	-1,157	-1,497	-902	45	-29	-581	-4,457	-1,944	28

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-21-5. Sacramento River d/s of North Delta Diversion, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	15,329	24,384	51,165	63,679	68,541	61,159	50,180	41,880	25,859	23,322	17,874	19,486
20%	13,687	15,781	36,208	56,070	61,018	51,797	38,440	27,790	20,184	22,492	17,435	17,016
30%	12,785	14,510	24,871	41,125	51,014	43,086	23,478	18,536	15,022	21,154	16,777	14,001
40%	11,683	13,507	18,359	30,974	43,531	33,753	20,474	15,172	13,712	20,188	16,461	13,567
50%	11,184	12,156	16,368	24,823	33,515	27,145	16,135	13,545	13,141	19,667	16,023	13,126
60%	10,548	11,106	14,969	19,554	24,680	22,020	13,220	11,917	12,500	19,434	15,547	12,695
70%	9,710	10,791	12,925	15,748	19,908	19,142	11,953	10,835	12,152	19,046	15,080	11,948
80%	8,925	9,564	11,502	13,415	14,871	15,333	11,188	10,027	11,496	17,041	13,312	10,972
90%	7,603	8,404	9,849	12,542	13,019	11,580	9,749	8,774	10,147	14,446	9,996	7,967
Long Term												
Full Simulation Period[a]	11,613	14,788	23,727	31,971	37,116	32,834	23,169	19,175	16,412	19,520	15,210	13,751
Water Year Types[b]												
Wet (32%)	13,505	19,447	39,708	50,961	57,314	49,416	37,809	31,948	23,900	19,876	15,816	18,254
Above Normal (15%)	11,118	15,309	21,663	39,863	45,676	44,495	25,979	21,021	16,309	21,574	15,877	13,198
Below Normal (17%)	11,557	12,574	16,678	23,781	31,934	24,489	17,752	14,227	13,576	20,953	15,643	12,427
Dry (22%)	10,279	12,868	15,442	17,444	21,202	20,656	12,990	10,959	12,222	19,272	16,965	12,155
Critical (15%)	10,073	9,633	11,816	14,281	14,708	13,245	10,229	7,749	9,884	15,397	10,095	8,485

Alternative 4 H1 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,316	16,607	42,593	58,127	61,917	53,115	37,827	24,988	16,223	23,904	14,434	10,610
20%	12,617	9,148	28,691	48,685	54,014	42,936	23,360	16,165	14,619	22,240	12,650	9,413
30%	10,884	8,479	19,907	31,694	41,704	33,591	16,172	13,277	13,962	19,615	11,390	8,202
40%	9,662	8,408	17,441	22,071	36,234	21,757	13,906	12,409	13,423	17,411	10,446	7,835
50%	9,011	8,362	15,532	19,895	22,978	17,941	12,130	11,666	12,887	15,680	9,629	7,785
60%	8,860	8,301	13,849	18,129	18,236	15,957	11,912	10,621	11,983	14,167	9,150	7,762
70%	8,709	8,135	12,813	15,683	16,527	14,643	11,025	10,445	11,700	12,599	8,579	7,718
80%	7,864	7,903	11,844	13,004	14,369	13,230	10,448	9,589	10,894	10,212	8,159	7,666
90%	7,253	7,053	9,065	11,466	11,538	11,013	9,914	8,049	9,274	8,724	7,847	7,556
Long Term												
Full Simulation Period[a]	10,108	10,262	20,906	27,849	31,992	26,401	18,149	13,941	13,134	16,100	10,609	8,541
Water Year Types[b]												
Wet (32%)	10,243	13,472	32,758	44,637	50,234	40,575	28,525	18,675	14,999	17,886	9,874	8,137
Above Normal (15%)	10,574	10,283	20,699	34,572	40,095	36,077	17,833	15,550	13,982	20,243	12,203	8,939
Below Normal (17%)	10,494	8,404	15,969	18,739	25,892	16,891	14,230	12,064	13,415	16,670	11,902	8,041
Dry (22%)	9,364	8,795	14,196	15,344	17,651	16,418	11,925	11,686	12,119	14,341	10,855	9,148
Critical (15%)	10,018	7,654	11,263	14,139	12,995	12,081	9,893	7,645	9,435	10,060	8,727	8,693

Alternative 4 H1 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,013	-7,777	-8,572	-5,552	-6,624	-8,044	-12,352	-16,892	-9,636	582	-3,440	-8,876
20%	-1,071	-6,633	-7,517	-7,385	-7,004	-8,861	-15,080	-11,625	-5,565	-252	-4,784	-7,603
30%	-1,900	-6,031	-4,964	-9,430	-9,310	-9,496	-7,306	-5,259	-1,060	-1,539	-5,386	-5,799
40%	-2,021	-5,099	-918	-8,903	-7,297	-11,996	-6,569	-2,763	-289	-2,776	-6,015	-5,732
50%	-2,173	-3,794	-836	-4,927	-10,537	-9,204	-4,005	-1,878	-255	-3,986	-6,393	-5,341
60%	-1,687	-2,805	-1,120	-1,425	-6,444	-6,063	-1,308	-1,296	-517	-5,267	-6,397	-4,933
70%	-1,001	-2,655	-112	-65	-3,381	-4,499	-927	-390	-452	-6,447	-6,501	-4,230
80%	-1,061	-1,661	342	-411	-503	-2,103	-740	-438	-601	-6,829	-5,153	-3,306
90%	-350	-1,351	-784	-1,076	-1,482	-568	165	-724	-873	-5,722	-2,149	-411
Long Term												
Full Simulation Period[a]	-1,504	-4,526	-2,821	-4,122	-5,123	-6,433	-5,020	-5,234	-3,278	-3,420	-4,602	-5,210
Water Year Types[b]												
Wet (32%)	-3,262	-5,975	-6,950	-6,324	-7,080	-8,841	-9,284	-13,273	-8,900	-1,990	-5,942	-10,116
Above Normal (15%)	-544	-5,026	-964	-5,291	-5,581	-8,418	-8,146	-5,471	-2,327	-1,331	-3,674	-4,260
Below Normal (17%)	-1,063	-4,170	-709	-5,042	-6,041	-7,598	-3,521	-2,163	-160	-4,283	-3,740	-4,386
Dry (22%)	-915	-4,073	-1,247	-2,100	-3,551	-4,239	-1,065	727	-103	-4,931	-6,110	-3,007
Critical (15%)	-55	-1,979	-553	-142	-1,713	-1,164	-335	-104	-448	-5,338	-1,368	208

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-21-6. Sacramento River d/s of North Delta Diversion, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	15,329	24,384	51,165	63,679	68,541	61,159	50,180	41,880	25,859	23,322	17,874	19,486
20%	13,687	15,781	36,208	56,070	61,018	51,797	38,440	27,790	20,184	22,492	17,435	17,016
30%	12,785	14,510	24,871	41,125	51,014	43,086	23,478	18,536	15,022	21,154	16,777	14,001
40%	11,683	13,507	18,359	30,974	43,531	33,753	20,474	15,172	13,712	20,188	16,461	13,567
50%	11,184	12,156	16,368	24,823	33,515	27,145	16,135	13,545	13,141	19,667	16,023	13,126
60%	10,548	11,106	14,969	19,554	24,680	22,020	13,220	11,917	12,500	19,434	15,547	12,695
70%	9,710	10,791	12,925	15,748	19,908	19,142	11,953	10,835	12,152	19,046	15,080	11,948
80%	8,925	9,564	11,502	13,415	14,871	15,333	11,188	10,027	11,496	17,041	13,312	10,972
90%	7,603	8,404	9,849	12,542	13,019	11,580	9,749	8,774	10,147	14,446	9,996	7,967
Long Term												
Full Simulation Period[a]	11,613	14,788	23,727	31,971	37,116	32,834	23,169	19,175	16,412	19,520	15,210	13,751
Water Year Types[b]												
Wet (32%)	13,505	19,447	39,708	50,961	57,314	49,416	37,809	31,948	23,900	19,876	15,816	18,254
Above Normal (15%)	11,118	15,309	21,663	39,863	45,676	44,495	25,979	21,021	16,309	21,574	15,877	13,198
Below Normal (17%)	11,557	12,574	16,678	23,781	31,934	24,489	17,752	14,227	13,576	20,953	15,643	12,427
Dry (22%)	10,279	12,868	15,442	17,444	21,202	20,656	12,990	10,959	12,222	19,272	16,965	12,155
Critical (15%)	10,073	9,633	11,816	14,281	14,708	13,245	10,229	7,749	9,884	15,397	10,095	8,485

Alternative 4 H2 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,574	16,646	45,034	58,880	62,409	53,900	39,982	27,271	15,260	20,316	14,375	12,391
20%	12,645	8,508	29,230	47,558	53,841	42,952	27,998	19,616	13,517	19,169	13,190	10,437
30%	10,697	8,420	20,157	32,735	42,270	30,297	25,008	17,212	12,489	17,544	12,612	9,259
40%	9,046	8,385	17,410	22,794	36,334	24,472	21,295	14,912	11,557	16,500	11,976	8,225
50%	8,955	8,323	14,915	20,319	23,664	20,696	17,549	12,623	11,287	15,184	10,558	7,818
60%	8,831	8,240	13,594	18,116	18,503	18,983	13,199	11,591	10,820	13,384	9,318	7,773
70%	8,580	8,084	11,482	15,950	16,678	16,030	11,040	10,574	10,334	12,233	8,766	7,741
80%	8,052	7,806	9,877	13,653	14,000	13,857	10,327	9,713	9,888	9,625	8,186	7,705
90%	7,204	6,987	8,842	11,874	10,835	10,769	9,512	8,068	9,002	8,493	7,813	7,586
Long Term												
Full Simulation Period[a]	10,031	10,327	20,609	28,099	32,062	27,372	20,971	15,546	12,050	14,888	10,911	8,980
Water Year Types[b]												
Wet (32%)	9,994	13,653	33,605	44,482	50,033	42,051	32,600	22,164	13,271	15,749	9,879	8,227
Above Normal (15%)	10,707	10,247	19,421	34,999	40,123	36,263	23,186	18,067	11,897	15,907	11,980	9,146
Below Normal (17%)	9,628	8,534	15,185	19,332	26,821	19,063	18,697	13,225	12,811	16,028	12,575	9,534
Dry (22%)	9,476	8,710	13,509	15,937	17,589	16,961	12,030	11,426	11,746	14,891	11,890	9,553
Critical (15%)	10,738	7,721	10,616	14,176	12,886	11,983	9,626	7,575	9,127	10,670	8,666	8,942

Alternative 4 H2 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-755	-7,737	-6,131	-4,799	-6,131	-7,259	-10,198	-14,608	-10,599	-3,006	-3,500	-7,095
20%	-1,042	-7,273	-6,978	-8,512	-7,177	-8,845	-10,443	-8,173	-6,667	-3,323	-4,245	-6,579
30%	-2,088	-6,089	-4,714	-8,389	-8,744	-12,789	1,530	-1,324	-2,533	-3,609	-4,164	-4,742
40%	-2,637	-5,121	-949	-8,180	-7,197	-9,282	820	-260	-2,156	-3,688	-4,485	-5,342
50%	-2,229	-3,833	-1,453	-4,504	-9,851	-6,448	1,413	-922	-1,854	-4,483	-5,465	-5,308
60%	-1,717	-2,866	-1,375	-1,439	-6,177	-3,037	-20	-326	-1,680	-6,050	-6,228	-4,922
70%	-1,129	-2,706	-1,443	202	-3,230	-3,112	-913	-261	-1,818	-6,814	-6,314	-4,207
80%	-873	-1,758	-1,625	237	-872	-1,476	-861	-314	-1,608	-7,415	-5,125	-3,268
90%	-399	-1,417	-1,007	-667	-2,184	-811	-237	-706	-1,145	-5,953	-2,184	-382
Long Term												
Full Simulation Period[a]	-1,581	-4,460	-3,118	-3,872	-5,054	-5,462	-2,198	-3,628	-4,362	-4,632	-4,299	-4,771
Water Year Types[b]												
Wet (32%)	-3,510	-5,794	-6,103	-6,479	-7,281	-7,364	-5,209	-9,784	-10,629	-4,127	-5,937	-10,027
Above Normal (15%)	-411	-5,062	-2,242	-4,864	-5,553	-8,232	-2,793	-2,953	-4,412	-5,667	-3,897	-4,053
Below Normal (17%)	-1,929	-4,040	-1,493	-4,449	-5,113	-5,426	946	-1,002	-765	-4,924	-3,067	-2,893
Dry (22%)	-803	-4,159	-1,934	-1,507	-3,613	-3,696	-960	467	-477	-4,381	-5,075	-2,603
Critical (15%)	665	-1,912	-1,201	-106	-1,821	-1,262	-603	-175	-757	-4,727	-1,429	457

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-21-7. Sacramento River d/s of North Delta Diversion, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	15,329	24,384	51,165	63,679	68,541	61,159	50,180	41,880	25,859	23,322	17,874	19,486
20%	13,687	15,781	36,208	56,070	61,018	51,797	38,440	27,790	20,184	22,492	17,435	17,016
30%	12,785	14,510	24,871	41,125	51,014	43,086	23,478	18,536	15,022	21,154	16,777	14,001
40%	11,683	13,507	18,359	30,974	43,531	33,753	20,474	15,172	13,712	20,188	16,461	13,567
50%	11,184	12,156	16,368	24,823	33,515	27,145	16,135	13,545	13,141	19,667	16,023	13,126
60%	10,548	11,106	14,969	19,554	24,680	22,020	13,220	11,917	12,500	19,434	15,547	12,695
70%	9,710	10,791	12,925	15,748	19,908	19,142	11,953	10,835	12,152	19,046	15,080	11,948
80%	8,925	9,564	11,502	13,415	14,871	15,333	11,188	10,027	11,496	17,041	13,312	10,972
90%	7,603	8,404	9,849	12,542	13,019	11,580	9,749	8,774	10,147	14,446	9,996	7,967
Long Term												
Full Simulation Period[a]	11,613	14,788	23,727	31,971	37,116	32,834	23,169	19,175	16,412	19,520	15,210	13,751
Water Year Types[b]												
Wet (32%)	13,505	19,447	39,708	50,961	57,314	49,416	37,809	31,948	23,900	19,876	15,816	18,254
Above Normal (15%)	11,118	15,309	21,663	39,863	45,676	44,495	25,979	21,021	16,309	21,574	15,877	13,198
Below Normal (17%)	11,557	12,574	16,678	23,781	31,934	24,489	17,752	14,227	13,576	20,953	15,643	12,427
Dry (22%)	10,279	12,868	15,442	17,444	21,202	20,656	12,990	10,959	12,222	19,272	16,965	12,155
Critical (15%)	10,073	9,633	11,816	14,281	14,708	13,245	10,229	7,749	9,884	15,397	10,095	8,485

Alternative 4 H3 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,712	14,933	41,385	56,774	61,553	53,112	36,794	24,977	16,222	23,588	14,616	20,862
20%	11,817	12,493	28,040	48,057	54,463	42,617	23,561	16,042	14,605	22,096	12,733	20,066
30%	9,874	10,814	18,862	31,725	41,202	31,105	16,369	13,288	13,800	19,168	11,413	15,948
40%	9,059	10,273	16,948	21,260	36,258	21,771	13,877	12,277	13,214	17,553	10,607	12,779
50%	8,975	9,059	14,913	19,549	23,024	17,508	12,274	11,728	12,968	16,030	9,736	11,635
60%	8,831	8,466	13,327	16,774	18,518	16,062	11,720	10,881	12,022	14,519	9,495	9,417
70%	8,610	8,349	12,768	14,723	15,750	15,029	10,782	10,426	11,733	12,256	9,113	7,814
80%	8,070	8,010	11,931	12,894	14,364	12,963	10,305	9,457	10,847	10,423	8,176	7,689
90%	7,233	7,028	9,058	11,554	11,389	10,716	9,853	8,030	9,317	8,740	7,924	7,386
Long Term												
Full Simulation Period[a]	9,831	11,219	20,154	27,220	31,736	26,086	18,066	13,953	13,124	16,151	10,733	12,874
Water Year Types[b]												
Wet (32%)	10,166	14,622	31,257	43,883	49,932	40,299	28,339	18,652	15,070	18,173	10,427	19,827
Above Normal (15%)	10,291	11,531	20,348	33,047	39,397	35,162	17,897	15,722	14,041	20,291	12,175	13,210
Below Normal (17%)	10,197	9,467	15,155	18,431	25,437	16,710	14,235	12,134	13,247	17,266	12,274	8,515
Dry (22%)	9,011	9,467	13,977	14,939	17,751	16,213	11,826	11,633	12,087	13,429	10,582	8,861
Critical (15%)	9,452	8,209	11,005	13,966	12,979	11,961	9,808	7,608	9,403	10,410	8,382	8,580

Alternative 4 H3 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,617	-9,451	-9,780	-6,905	-6,987	-8,046	-13,385	-16,903	-9,637	266	-3,258	1,376
20%	-1,870	-3,288	-8,167	-8,013	-6,555	-9,180	-14,880	-11,748	-5,579	-395	-4,702	3,050
30%	-2,911	-3,696	-6,009	-9,399	-9,812	-11,981	-7,109	-5,248	-1,222	-1,986	-5,363	1,947
40%	-2,624	-3,234	-1,411	-9,714	-7,273	-11,982	-6,598	-2,894	-499	-2,635	-5,855	-788
50%	-2,208	-3,097	-1,455	-5,274	-10,492	-9,637	-3,861	-1,816	-173	-3,636	-6,287	-1,491
60%	-1,717	-2,640	-1,642	-2,780	-6,162	-5,958	-1,500	-1,036	-477	-4,915	-6,051	-3,278
70%	-1,100	-2,442	-157	-1,025	-4,158	-4,113	-1,171	-409	-419	-6,790	-5,967	-4,134
80%	-855	-1,554	429	-521	-508	-2,370	-883	-570	-648	-6,618	-5,135	-3,284
90%	-370	-1,376	-791	-987	-1,630	-865	104	-744	-831	-5,706	-2,072	-581
Long Term												
Full Simulation Period[a]	-1,781	-3,568	-3,572	-4,751	-5,379	-6,748	-5,103	-5,221	-3,288	-3,370	-4,477	-876
Water Year Types[b]												
Wet (32%)	-3,339	-4,825	-8,451	-7,078	-7,382	-9,117	-9,470	-13,296	-8,830	-1,703	-5,388	1,574
Above Normal (15%)	-827	-3,777	-1,315	-6,816	-6,280	-9,333	-8,082	-5,299	-2,268	-1,282	-3,702	12
Below Normal (17%)	-1,361	-3,107	-1,522	-5,349	-6,497	-7,779	-3,516	-2,093	-329	-3,687	-3,369	-3,912
Dry (22%)	-1,268	-3,402	-1,466	-2,504	-3,451	-4,443	-1,165	673	-135	-5,843	-6,384	-3,294
Critical (15%)	-621	-1,423	-811	-315	-1,729	-1,285	-420	-141	-480	-4,987	-1,713	95

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-21-8. Sacramento River d/s of North Delta Diversion, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	15,329	24,384	51,165	63,679	68,541	61,159	50,180	41,880	25,859	23,322	17,874	19,486
20%	13,687	15,781	36,208	56,070	61,018	51,797	38,440	27,790	20,184	22,492	17,435	17,016
30%	12,785	14,510	24,871	41,125	51,014	43,086	23,478	18,536	15,022	21,154	16,777	14,001
40%	11,683	13,507	18,359	30,974	43,531	33,753	20,474	15,172	13,712	20,188	16,461	13,567
50%	11,184	12,156	16,368	24,823	33,515	27,145	16,135	13,545	13,141	19,667	16,023	13,126
60%	10,548	11,106	14,969	19,554	24,680	22,020	13,220	11,917	12,500	19,434	15,547	12,695
70%	9,710	10,791	12,925	15,748	19,908	19,142	11,953	10,835	12,152	19,046	15,080	11,948
80%	8,925	9,564	11,502	13,415	14,871	15,333	11,188	10,027	11,496	17,041	13,312	10,972
90%	7,603	8,404	9,849	12,542	13,019	11,580	9,749	8,774	10,147	14,446	9,996	7,967
Long Term												
Full Simulation Period[a]	11,613	14,788	23,727	31,971	37,116	32,834	23,169	19,175	16,412	19,520	15,210	13,751
Water Year Types[b]												
Wet (32%)	13,505	19,447	39,708	50,961	57,314	49,416	37,809	31,948	23,900	19,876	15,816	18,254
Above Normal (15%)	11,118	15,309	21,663	39,863	45,676	44,495	25,979	21,021	16,309	21,574	15,877	13,198
Below Normal (17%)	11,557	12,574	16,678	23,781	31,934	24,489	17,752	14,227	13,576	20,953	15,643	12,427
Dry (22%)	10,279	12,868	15,442	17,444	21,202	20,656	12,990	10,959	12,222	19,272	16,965	12,155
Critical (15%)	10,073	9,633	11,816	14,281	14,708	13,245	10,229	7,749	9,884	15,397	10,095	8,485

Alternative 4 H4 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,675	14,951	41,651	58,426	61,583	53,119	39,799	27,559	15,124	21,505	14,916	21,015
20%	11,344	12,872	27,401	46,374	53,856	42,567	28,012	19,751	13,354	18,744	13,329	20,154
30%	9,516	10,628	19,747	31,876	41,436	30,411	24,727	16,897	12,459	17,542	12,745	15,417
40%	9,027	10,260	16,905	21,177	36,599	24,244	21,123	14,248	11,889	16,303	11,971	13,257
50%	8,914	9,308	14,676	19,245	23,783	20,320	17,461	12,208	11,372	15,083	10,211	12,283
60%	8,795	8,378	13,102	16,203	18,675	18,339	12,728	11,431	10,855	13,183	9,291	10,276
70%	8,504	8,247	12,399	13,902	16,360	16,075	10,916	10,639	10,349	11,350	8,764	8,793
80%	8,046	7,915	9,846	12,684	14,073	13,528	10,334	9,758	9,889	9,797	8,234	7,825
90%	7,187	7,000	8,438	11,264	10,936	10,765	9,695	8,041	9,010	8,578	8,021	7,625
Long Term												
Full Simulation Period[a]	9,712	11,231	19,981	26,882	31,840	27,105	20,865	15,481	12,072	14,838	10,965	13,221
Water Year Types[b]												
Wet (32%)	10,117	14,557	31,752	43,431	49,815	41,904	32,440	22,238	13,371	16,275	10,041	19,710
Above Normal (15%)	10,625	11,685	19,748	32,999	39,450	35,541	23,219	18,057	11,894	16,332	11,215	13,146
Below Normal (17%)	9,340	9,586	14,902	18,786	26,096	18,484	18,304	12,955	13,020	16,143	12,675	8,982
Dry (22%)	8,880	9,345	13,537	14,662	17,765	16,956	12,022	11,240	11,528	13,557	12,117	9,937
Critical (15%)	9,606	8,320	10,300	12,682	13,098	11,884	9,686	7,575	9,151	10,630	8,994	9,106

Alternative 4 H4 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,653	-9,433	-9,514	-5,253	-6,958	-8,039	-10,380	-14,321	-10,735	-1,817	-2,958	1,529
20%	-2,343	-2,910	-8,806	-9,696	-7,163	-9,230	-10,429	-8,039	-6,830	-3,748	-4,105	3,138
30%	-3,269	-3,882	-5,124	-9,249	-9,578	-12,675	1,249	-1,639	-2,563	-3,612	-4,031	1,416
40%	-2,656	-3,246	-1,455	-9,797	-6,932	-9,509	649	-924	-1,824	-3,884	-4,490	-309
50%	-2,269	-2,848	-1,692	-5,577	-9,733	-6,825	1,326	-1,337	-1,769	-4,584	-5,812	-843
60%	-1,753	-2,728	-1,867	-3,351	-6,005	-3,680	-492	-486	-1,645	-6,251	-6,255	-2,419
70%	-1,206	-2,544	-526	-1,846	-3,548	-3,067	-1,037	-196	-1,803	-7,696	-6,317	-3,155
80%	-879	-1,649	-1,656	-731	-799	-1,806	-854	-270	-1,607	-7,244	-5,077	-3,147
90%	-416	-1,404	-1,411	-1,278	-2,084	-816	-54	-733	-1,137	-5,868	-1,975	-342
Long Term												
Full Simulation Period[a]	-1,900	-3,556	-3,746	-5,089	-5,276	-5,729	-2,304	-3,694	-4,339	-4,682	-4,245	-530
Water Year Types[b]												
Wet (32%)	-3,388	-4,890	-7,956	-7,530	-7,499	-7,512	-5,368	-9,710	-10,529	-3,601	-5,775	1,456
Above Normal (15%)	-493	-3,623	-1,915	-6,864	-6,226	-8,954	-2,759	-2,964	-4,415	-5,242	-4,662	-52
Below Normal (17%)	-2,217	-2,988	-1,776	-4,995	-5,838	-6,005	553	-1,272	-556	-4,810	-2,967	-3,445
Dry (22%)	-1,399	-3,523	-1,905	-2,782	-3,437	-3,700	-968	281	-695	-5,715	-4,848	-2,219
Critical (15%)	-467	-1,313	-1,516	-1,599	-1,610	-1,361	-543	-174	-733	-4,767	-1,101	621

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-21-9. Sacramento River d/s of North Delta Diversion, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	15,329	24,384	51,165	63,679	68,541	61,159	50,180	41,880	25,859	23,322	17,874	19,486
20%	13,687	15,781	36,208	56,070	61,018	51,797	38,440	27,790	20,184	22,492	17,435	17,016
30%	12,785	14,510	24,871	41,125	51,014	43,086	23,478	18,536	15,022	21,154	16,777	14,001
40%	11,683	13,507	18,359	30,974	43,531	33,753	20,474	15,172	13,712	20,188	16,461	13,567
50%	11,184	12,156	16,368	24,823	33,515	27,145	16,135	13,545	13,141	19,667	16,023	13,126
60%	10,548	11,106	14,969	19,554	24,680	22,020	13,220	11,917	12,500	19,434	15,547	12,695
70%	9,710	10,791	12,925	15,748	19,908	19,142	11,953	10,835	12,152	19,046	15,080	11,948
80%	8,925	9,564	11,502	13,415	14,871	15,333	11,188	10,027	11,496	17,041	13,312	10,972
90%	7,603	8,404	9,849	12,542	13,019	11,580	9,749	8,774	10,147	14,446	9,996	7,967
Long Term												
Full Simulation Period[a]	11,613	14,788	23,727	31,971	37,116	32,834	23,169	19,175	16,412	19,520	15,210	13,751
Water Year Types[b]												
Wet (32%)	13,505	19,447	39,708	50,961	57,314	49,416	37,809	31,948	23,900	19,876	15,816	18,254
Above Normal (15%)	11,118	15,309	21,663	39,863	45,676	44,495	25,979	21,021	16,309	21,574	15,877	13,198
Below Normal (17%)	11,557	12,574	16,678	23,781	31,934	24,489	17,752	14,227	13,576	20,953	15,643	12,427
Dry (22%)	10,279	12,868	15,442	17,444	21,202	20,656	12,990	10,959	12,222	19,272	16,965	12,155
Critical (15%)	10,073	9,633	11,816	14,281	14,708	13,245	10,229	7,749	9,884	15,397	10,095	8,485

Alternative 5 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	16,096	17,406	39,873	62,960	67,480	59,117	42,723	30,864	18,491	24,301	16,381	22,540
20%	13,287	13,890	29,249	53,911	60,676	48,660	29,206	19,199	16,323	22,556	14,533	21,570
30%	11,518	12,372	20,113	36,365	46,073	37,668	19,715	14,768	15,276	21,054	13,494	18,752
40%	10,724	11,068	17,123	22,761	39,472	26,479	17,051	12,297	14,375	20,497	12,320	13,603
50%	10,242	10,313	15,248	20,256	27,428	21,042	13,274	11,772	13,824	19,439	11,102	9,017
60%	9,300	9,452	14,160	17,893	21,115	18,046	12,295	11,019	12,938	17,053	10,075	7,786
70%	9,011	8,423	13,763	15,273	17,331	16,440	11,483	10,571	12,317	15,203	8,514	7,749
80%	8,691	8,163	12,311	13,327	14,873	14,183	10,614	9,408	11,692	12,622	8,052	7,707
90%	7,278	7,181	9,311	11,961	12,195	11,333	10,164	8,245	10,529	9,127	7,725	7,456
Long Term												
Full Simulation Period[a]	11,076	12,189	21,211	29,782	35,046	29,549	20,392	15,304	14,565	17,792	11,533	13,412
Water Year Types[b]												
Wet (32%)	11,391	16,257	33,322	49,145	55,715	45,934	32,697	22,146	18,047	19,907	12,305	21,999
Above Normal (15%)	11,581	12,551	21,261	36,016	43,788	40,636	21,217	17,335	15,515	20,932	14,430	14,678
Below Normal (17%)	12,374	10,073	15,769	20,282	27,821	19,149	15,607	11,993	14,335	19,596	13,100	8,230
Dry (22%)	9,765	10,387	14,862	15,591	19,346	17,944	12,406	11,775	12,430	15,476	9,655	7,705
Critical (15%)	10,341	8,183	10,796	13,962	13,500	12,499	10,469	7,608	9,541	11,440	7,954	8,144

Alternative 5 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	768	-6,978	-11,292	-718	-1,060	-2,042	-7,457	-11,016	-7,368	980	-1,493	3,054
20%	-401	-1,891	-6,959	-2,159	-342	-3,137	-9,234	-8,591	-3,861	64	-2,902	4,554
30%	-1,266	-2,138	-4,758	-4,759	-4,941	-5,419	-3,763	-3,768	254	-100	-3,282	4,751
40%	-959	-2,438	-1,236	-8,213	-4,059	-7,274	-3,423	-2,875	662	309	-4,141	37
50%	-941	-1,843	-1,120	-4,566	-6,087	-6,102	-2,861	-1,773	683	-227	-4,921	-4,109
60%	-1,247	-1,654	-809	-1,661	-3,565	-3,974	-925	-898	438	-2,381	-5,472	-4,909
70%	-699	-2,368	838	-475	-2,577	-2,702	-470	-264	165	-3,844	-6,566	-4,199
80%	-235	-1,400	809	-88	2	-1,150	-574	-619	196	-4,419	-5,259	-3,265
90%	-325	-1,223	-538	-580	-825	-247	415	-528	381	-5,319	-2,271	-511
Long Term												
Full Simulation Period[a]	-537	-2,599	-2,515	-2,189	-2,070	-3,285	-2,777	-3,870	-1,847	-1,728	-3,677	-339
Water Year Types[b]												
Wet (32%)	-2,114	-3,190	-6,386	-1,816	-1,599	-3,482	-5,112	-9,802	-5,853	31	-3,510	3,745
Above Normal (15%)	462	-2,757	-402	-3,847	-1,888	-3,860	-4,761	-3,685	-794	-642	-1,447	1,480
Below Normal (17%)	817	-2,501	-908	-3,499	-4,113	-5,339	-2,144	-2,234	760	-1,357	-2,542	-4,197
Dry (22%)	-514	-2,482	-581	-1,852	-1,855	-2,712	-584	816	207	-3,796	-7,310	-4,450
Critical (15%)	268	-1,450	-1,020	-319	-1,207	-746	240	-141	-343	-3,957	-2,141	-341

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-21-10. Sacramento River d/s of North Delta Diversion, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	15,329	24,384	51,165	63,679	68,541	61,159	50,180	41,880	25,859	23,322	17,874	19,486
20%	13,687	15,781	36,208	56,070	61,018	51,797	38,440	27,790	20,184	22,492	17,435	17,016
30%	12,785	14,510	24,871	41,125	51,014	43,086	23,478	18,536	15,022	21,154	16,777	14,001
40%	11,683	13,507	18,359	30,974	43,531	33,753	20,474	15,172	13,712	20,188	16,461	13,567
50%	11,184	12,156	16,368	24,823	33,515	27,145	16,135	13,545	13,141	19,667	16,023	13,126
60%	10,548	11,106	14,969	19,554	24,680	22,020	13,220	11,917	12,500	19,434	15,547	12,695
70%	9,710	10,791	12,925	15,748	19,908	19,142	11,953	10,835	12,152	19,046	15,080	11,948
80%	8,925	9,564	11,502	13,415	14,871	15,333	11,188	10,027	11,496	17,041	13,312	10,972
90%	7,603	8,404	9,849	12,542	13,019	11,580	9,749	8,774	10,147	14,446	9,996	7,967
Long Term												
Full Simulation Period[a]	11,613	14,788	23,727	31,971	37,116	32,834	23,169	19,175	16,412	19,520	15,210	13,751
Water Year Types[b]												
Wet (32%)	13,505	19,447	39,708	50,961	57,314	49,416	37,809	31,948	23,900	19,876	15,816	18,254
Above Normal (15%)	11,118	15,309	21,663	39,863	45,676	44,495	25,979	21,021	16,309	21,574	15,877	13,198
Below Normal (17%)	11,557	12,574	16,678	23,781	31,934	24,489	17,752	14,227	13,576	20,953	15,643	12,427
Dry (22%)	10,279	12,868	15,442	17,444	21,202	20,656	12,990	10,959	12,222	19,272	16,965	12,155
Critical (15%)	10,073	9,633	11,816	14,281	14,708	13,245	10,229	7,749	9,884	15,397	10,095	8,485

Alternative 6A,6B,6C (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	10,114	14,440	38,024	51,444	56,905	50,042	35,416	20,523	13,058	12,633	8,222	17,647
20%	9,508	12,431	27,153	43,323	48,480	38,834	21,053	14,183	11,829	10,715	8,115	16,241
30%	8,797	10,606	19,180	29,503	36,543	30,643	15,856	12,190	11,312	9,790	8,055	12,044
40%	7,752	9,632	16,738	20,493	31,905	19,305	13,051	10,613	10,853	8,936	8,008	9,675
50%	7,379	8,220	14,533	19,001	21,342	17,091	12,012	10,285	10,502	8,750	7,884	7,722
60%	7,110	7,976	12,783	16,583	18,237	15,697	10,819	9,866	10,261	8,495	7,794	7,548
70%	6,930	7,659	10,950	13,872	16,194	14,577	10,155	9,275	10,003	8,228	7,656	7,396
80%	6,842	7,241	9,384	12,672	14,053	12,578	9,573	8,502	9,376	8,123	7,589	7,219
90%	6,687	6,842	8,114	10,991	11,401	10,180	8,608	7,246	8,239	8,024	7,511	7,097
Long Term												
Full Simulation Period[a]	8,005	10,610	19,310	25,550	29,488	24,745	16,852	12,592	11,095	9,493	7,833	10,528
Water Year Types[b]												
Wet (32%)	8,932	13,820	30,748	40,766	45,420	38,019	26,595	17,319	12,574	10,821	7,958	16,245
Above Normal (15%)	7,628	11,310	19,124	31,058	35,943	32,872	16,544	14,270	11,144	10,512	8,050	10,687
Below Normal (17%)	8,366	8,993	14,382	17,958	23,861	15,850	13,066	10,720	11,376	8,811	7,844	7,482
Dry (22%)	7,297	8,725	13,199	14,651	17,172	16,122	11,066	9,892	10,314	8,302	7,776	7,397
Critical (15%)	7,014	7,666	9,627	12,282	13,552	11,173	9,147	6,908	8,686	8,181	7,417	6,233

Alternative 6A,6B,6C (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-5,215	-9,944	-13,141	-12,235	-11,636	-11,117	-14,763	-21,356	-12,801	-10,689	-9,653	-1,839
20%	-4,180	-3,351	-9,055	-12,747	-12,538	-12,963	-17,387	-13,607	-8,354	-11,776	-9,320	-775
30%	-3,987	-3,904	-5,691	-11,621	-14,471	-12,444	-7,622	-6,346	-3,709	-11,363	-8,722	-1,957
40%	-3,931	-3,874	-1,621	-10,481	-11,626	-14,449	-7,423	-4,559	-2,859	-11,251	-8,453	-3,892
50%	-3,804	-3,935	-1,836	-5,822	-12,174	-10,054	-4,124	-3,259	-2,639	-10,916	-8,139	-5,403
60%	-3,438	-3,130	-2,186	-2,971	-6,443	-6,323	-2,401	-2,051	-2,239	-10,939	-7,753	-5,147
70%	-2,780	-3,132	-1,974	-1,876	-3,713	-4,565	-1,798	-1,560	-2,149	-10,818	-7,425	-4,552
80%	-2,083	-2,323	-2,118	-743	-818	-2,755	-1,615	-1,525	-2,119	-8,918	-5,723	-3,753
90%	-916	-1,562	-1,735	-1,551	-1,618	-1,400	-1,141	-1,527	-1,908	-6,422	-2,486	-870
Long Term												
Full Simulation Period[a]	-3,608	-4,178	-4,417	-6,421	-7,628	-8,088	-6,317	-6,583	-5,317	-10,027	-7,377	-3,223
Water Year Types[b]												
Wet (32%)	-4,572	-5,627	-8,960	-10,195	-11,894	-11,397	-11,214	-14,629	-11,326	-9,055	-7,858	-2,008
Above Normal (15%)	-3,490	-3,998	-2,539	-8,805	-9,734	-11,624	-9,435	-6,751	-5,165	-11,062	-7,826	-2,511
Below Normal (17%)	-3,191	-3,580	-2,296	-5,823	-8,072	-8,639	-4,685	-3,507	-2,199	-12,142	-7,798	-4,945
Dry (22%)	-2,982	-4,143	-2,244	-2,793	-4,030	-4,535	-1,924	-1,067	-1,909	-10,970	-9,190	-4,758
Critical (15%)	-3,059	-1,967	-2,189	-2,000	-1,156	-2,073	-1,081	-841	-1,198	-7,216	-2,678	-2,252

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-21-11. Sacramento River d/s of North Delta Diversion, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	15,329	24,384	51,165	63,679	68,541	61,159	50,180	41,880	25,859	23,322	17,874	19,486
20%	13,687	15,781	36,208	56,070	61,018	51,797	38,440	27,790	20,184	22,492	17,435	17,016
30%	12,785	14,510	24,871	41,125	51,014	43,086	23,478	18,536	15,022	21,154	16,777	14,001
40%	11,683	13,507	18,359	30,974	43,531	33,753	20,474	15,172	13,712	20,188	16,461	13,567
50%	11,184	12,156	16,368	24,823	33,515	27,145	16,135	13,545	13,141	19,667	16,023	13,126
60%	10,548	11,106	14,969	19,554	24,680	22,020	13,220	11,917	12,500	19,434	15,547	12,695
70%	9,710	10,791	12,925	15,748	19,908	19,142	11,953	10,835	12,152	19,046	15,080	11,948
80%	8,925	9,564	11,502	13,415	14,871	15,333	11,188	10,027	11,496	17,041	13,312	10,972
90%	7,603	8,404	9,849	12,542	13,019	11,580	9,749	8,774	10,147	14,446	9,996	7,967
Long Term												
Full Simulation Period[a]	11,613	14,788	23,727	31,971	37,116	32,834	23,169	19,175	16,412	19,520	15,210	13,751
Water Year Types[b]												
Wet (32%)	13,505	19,447	39,708	50,961	57,314	49,416	37,809	31,948	23,900	19,876	15,816	18,254
Above Normal (15%)	11,118	15,309	21,663	39,863	45,676	44,495	25,979	21,021	16,309	21,574	15,877	13,198
Below Normal (17%)	11,557	12,574	16,678	23,781	31,934	24,489	17,752	14,227	13,576	20,953	15,643	12,427
Dry (22%)	10,279	12,868	15,442	17,444	21,202	20,656	12,990	10,959	12,222	19,272	16,965	12,155
Critical (15%)	10,073	9,633	11,816	14,281	14,708	13,245	10,229	7,749	9,884	15,397	10,095	8,485

Alternative 7 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	10,196	15,016	39,142	56,658	61,636	52,681	39,182	25,125	14,252	24,101	16,243	21,314
20%	9,264	12,918	26,206	47,490	53,666	41,404	25,626	16,097	12,682	22,792	14,798	20,580
30%	8,929	10,780	18,863	31,688	40,347	30,203	18,421	13,208	11,926	21,612	14,028	15,434
40%	8,529	10,017	16,787	20,714	35,202	21,426	14,514	10,652	11,582	19,445	12,326	12,490
50%	8,157	8,399	14,579	19,266	22,714	18,677	12,129	10,422	11,348	17,559	11,822	10,730
60%	7,827	8,203	12,990	17,011	18,664	17,033	11,046	9,933	11,060	16,388	11,385	8,897
70%	7,328	7,911	11,186	14,028	16,761	15,739	10,224	9,301	10,869	13,710	10,881	7,801
80%	7,053	7,617	9,502	12,682	14,822	13,306	9,732	8,642	10,785	12,152	10,565	7,653
90%	6,888	6,893	8,354	11,161	11,530	10,339	8,689	7,395	10,620	11,006	10,477	7,414
Long Term												
Full Simulation Period[a]	8,495	11,033	19,558	27,017	31,710	26,109	18,164	13,330	12,280	17,733	12,847	12,754
Water Year Types[b]												
Wet (32%)	9,252	14,617	31,205	44,047	49,513	39,986	29,218	18,659	13,919	19,462	12,756	20,019
Above Normal (15%)	8,774	11,767	19,328	33,074	39,436	34,531	18,265	15,353	12,391	21,352	13,856	13,212
Below Normal (17%)	8,404	9,192	14,563	18,521	25,509	17,736	13,846	10,832	12,154	19,692	15,330	8,913
Dry (22%)	7,840	8,936	13,237	14,692	17,730	16,744	11,395	9,910	11,054	15,601	11,934	8,397
Critical (15%)	7,662	7,824	9,864	12,460	13,611	11,437	9,308	7,810	10,605	11,279	10,505	7,570

Alternative 7 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-5,133	-9,367	-12,023	-7,021	-6,905	-8,478	-10,997	-16,754	-11,607	779	-1,631	1,828
20%	-4,424	-2,864	-10,001	-8,580	-7,352	-10,393	-12,815	-11,693	-7,502	300	-2,637	3,564
30%	-3,856	-3,730	-6,008	-9,437	-10,667	-12,884	-5,057	-5,328	-3,095	459	-2,749	1,433
40%	-3,154	-3,490	-1,572	-10,260	-8,329	-12,327	-5,960	-4,519	-2,130	-743	-4,135	-1,076
50%	-3,026	-3,757	-1,789	-5,556	-10,802	-8,467	-4,006	-3,123	-1,793	-2,108	-4,201	-2,396
60%	-2,721	-2,903	-1,978	-2,544	-6,016	-4,987	-2,174	-1,984	-1,439	-3,045	-4,162	-3,798
70%	-2,382	-2,879	-1,738	-1,720	-3,147	-3,403	-1,729	-1,535	-1,283	-5,336	-4,199	-4,147
80%	-1,872	-1,946	-2,001	-733	-50	-2,027	-1,456	-1,386	-711	-4,889	-2,747	-3,319
90%	-715	-1,511	-1,495	-1,380	-1,489	-1,241	-1,060	-1,378	473	-3,441	480	-553
Long Term												
Full Simulation Period[a]	-3,118	-3,755	-4,168	-4,954	-5,406	-6,725	-5,005	-5,844	-4,132	-1,787	-2,364	-997
Water Year Types[b]												
Wet (32%)	-4,253	-4,830	-8,503	-6,914	-7,801	-9,430	-8,590	-13,289	-9,981	-414	-3,060	1,766
Above Normal (15%)	-2,344	-3,542	-2,335	-6,789	-6,240	-9,964	-7,714	-5,668	-3,918	-222	-2,020	13
Below Normal (17%)	-3,153	-3,382	-2,114	-5,260	-6,425	-6,753	-3,906	-3,395	-1,421	-1,261	-312	-3,514
Dry (22%)	-2,439	-3,932	-2,205	-2,752	-3,472	-3,913	-1,595	-1,050	-1,169	-3,670	-5,031	-3,758
Critical (15%)	-2,411	-1,809	-1,952	-1,821	-1,097	-1,808	-921	61	721	-4,118	410	-915

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-21-12. Sacramento River d/s of North Delta Diversion, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	15,329	24,384	51,165	63,679	68,541	61,159	50,180	41,880	25,859	23,322	17,874	19,486
20%	13,687	15,781	36,208	56,070	61,018	51,797	38,440	27,790	20,184	22,492	17,435	17,016
30%	12,785	14,510	24,871	41,125	51,014	43,086	23,478	18,536	15,022	21,154	16,777	14,001
40%	11,683	13,507	18,359	30,974	43,531	33,753	20,474	15,172	13,712	20,188	16,461	13,567
50%	11,184	12,156	16,368	24,823	33,515	27,145	16,135	13,545	13,141	19,667	16,023	13,126
60%	10,548	11,106	14,969	19,554	24,680	22,020	13,220	11,917	12,500	19,434	15,547	12,695
70%	9,710	10,791	12,925	15,748	19,908	19,142	11,953	10,835	12,152	19,046	15,080	11,948
80%	8,925	9,564	11,502	13,415	14,871	15,333	11,188	10,027	11,496	17,041	13,312	10,972
90%	7,603	8,404	9,849	12,542	13,019	11,580	9,749	8,774	10,147	14,446	9,996	7,967
Long Term												
Full Simulation Period[a]	11,613	14,788	23,727	31,971	37,116	32,834	23,169	19,175	16,412	19,520	15,210	13,751
Water Year Types[b]												
Wet (32%)	13,505	19,447	39,708	50,961	57,314	49,416	37,809	31,948	23,900	19,876	15,816	18,254
Above Normal (15%)	11,118	15,309	21,663	39,863	45,676	44,495	25,979	21,021	16,309	21,574	15,877	13,198
Below Normal (17%)	11,557	12,574	16,678	23,781	31,934	24,489	17,752	14,227	13,576	20,953	15,643	12,427
Dry (22%)	10,279	12,868	15,442	17,444	21,202	20,656	12,990	10,959	12,222	19,272	16,965	12,155
Critical (15%)	10,073	9,633	11,816	14,281	14,708	13,245	10,229	7,749	9,884	15,397	10,095	8,485

Alternative 8 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	10,000	14,871	41,752	58,590	61,401	55,242	43,480	27,822	15,798	13,097	10,894	21,007
20%	8,917	12,594	27,273	46,716	54,307	41,113	30,578	19,923	13,125	12,535	10,862	20,118
30%	8,485	10,754	19,384	33,657	43,102	31,734	22,240	17,646	11,608	12,039	10,816	15,340
40%	8,101	9,836	16,767	25,275	36,285	23,828	19,655	15,838	10,857	11,379	10,715	12,372
50%	7,755	8,467	14,273	21,017	27,260	21,080	18,044	14,420	10,768	11,305	10,530	7,839
60%	7,385	8,395	12,902	17,729	19,891	18,954	16,397	12,998	10,681	11,042	10,437	7,714
70%	6,928	8,322	10,854	14,955	18,277	17,618	14,780	11,350	10,623	10,912	10,320	7,485
80%	6,771	7,879	9,412	12,777	16,457	15,170	13,051	10,026	10,407	10,405	10,097	7,401
90%	5,620	6,977	7,870	10,829	11,922	13,180	11,286	8,076	9,863	9,968	8,748	7,233
Long Term												
Full Simulation Period[a]	8,014	11,062	19,491	28,220	33,054	27,833	22,323	16,588	12,194	11,456	10,258	12,075
Water Year Types[b]												
Wet (32%)	8,576	14,687	31,790	45,128	49,638	40,489	32,507	22,834	14,671	12,814	10,818	19,758
Above Normal (15%)	8,673	11,148	18,460	35,427	41,167	35,489	23,452	18,114	12,425	11,657	10,574	12,835
Below Normal (17%)	7,898	9,318	14,285	20,596	27,639	19,686	20,076	15,228	11,369	10,312	9,820	7,697
Dry (22%)	7,558	9,334	13,025	15,365	20,251	20,361	16,150	12,587	10,356	10,829	10,283	7,464
Critical (15%)	6,955	7,750	9,644	12,556	14,534	13,466	11,011	9,114	10,316	10,587	9,203	6,696

Alternative 8 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-5,328	-9,512	-9,413	-5,089	-7,140	-5,916	-6,700	-14,057	-10,061	-10,224	-6,980	1,521
20%	-4,771	-3,188	-8,935	-9,354	-6,711	-10,684	-7,862	-7,867	-7,059	-9,957	-6,573	3,102
30%	-4,299	-3,756	-5,487	-7,468	-7,912	-11,353	-1,238	-890	-3,414	-9,115	-5,961	1,339
40%	-3,582	-3,670	-1,592	-5,699	-7,246	-9,925	-819	666	-2,855	-8,808	-5,747	-1,195
50%	-3,428	-3,689	-2,095	-3,806	-6,255	-6,065	1,908	875	-2,373	-8,362	-5,492	-5,286
60%	-3,163	-2,711	-2,066	-1,825	-4,789	-3,066	3,177	1,081	-1,819	-8,392	-5,110	-4,981
70%	-2,782	-2,468	-2,071	-793	-1,631	-1,525	2,827	515	-1,529	-8,134	-4,760	-4,463
80%	-2,154	-1,685	-2,090	-638	1,585	-163	1,863	-1	-1,089	-6,636	-3,215	-3,571
90%	-1,983	-1,426	-1,979	-1,713	-1,097	1,600	1,537	-698	-284	-4,478	-1,248	-734
Long Term												
Full Simulation Period[a]	-3,599	-3,725	-4,236	-3,751	-4,061	-5,001	-846	-2,587	-4,218	-8,065	-4,952	-1,675
Water Year Types[b]												
Wet (32%)	-4,928	-4,760	-7,918	-5,834	-7,676	-8,927	-5,302	-9,114	-9,229	-7,062	-4,998	1,504
Above Normal (15%)	-2,446	-4,161	-3,203	-4,436	-4,509	-9,006	-2,527	-2,906	-3,883	-9,917	-5,303	-363
Below Normal (17%)	-3,660	-3,256	-2,392	-3,185	-4,294	-4,803	2,324	1,001	-2,207	-10,641	-5,822	-4,730
Dry (22%)	-2,721	-3,534	-2,418	-2,079	-951	-296	3,160	1,628	-1,867	-8,443	-6,683	-4,691
Critical (15%)	-3,119	-1,883	-2,172	-1,725	-174	221	783	1,365	433	-4,810	-892	-1,789

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-21-13. Sacramento River d/s of North Delta Diversion, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	15,329	24,384	51,165	63,679	68,541	61,159	50,180	41,880	25,859	23,322	17,874	19,486
20%	13,687	15,781	36,208	56,070	61,018	51,797	38,440	27,790	20,184	22,492	17,435	17,016
30%	12,785	14,510	24,871	41,125	51,014	43,086	23,478	18,536	15,022	21,154	16,777	14,001
40%	11,683	13,507	18,359	30,974	43,531	33,753	20,474	15,172	13,712	20,188	16,461	13,567
50%	11,184	12,156	16,368	24,823	33,515	27,145	16,135	13,545	13,141	19,667	16,023	13,126
60%	10,548	11,106	14,969	19,554	24,680	22,020	13,220	11,917	12,500	19,434	15,547	12,695
70%	9,710	10,791	12,925	15,748	19,908	19,142	11,953	10,835	12,152	19,046	15,080	11,948
80%	8,925	9,564	11,502	13,415	14,871	15,333	11,188	10,027	11,496	17,041	13,312	10,972
90%	7,603	8,404	9,849	12,542	13,019	11,580	9,749	8,774	10,147	14,446	9,996	7,967
Long Term												
Full Simulation Period[a]	11,613	14,788	23,727	31,971	37,116	32,834	23,169	19,175	16,412	19,520	15,210	13,751
Water Year Types[b]												
Wet (32%)	13,505	19,447	39,708	50,961	57,314	49,416	37,809	31,948	23,900	19,876	15,816	18,254
Above Normal (15%)	11,118	15,309	21,663	39,863	45,676	44,495	25,979	21,021	16,309	21,574	15,877	13,198
Below Normal (17%)	11,557	12,574	16,678	23,781	31,934	24,489	17,752	14,227	13,576	20,953	15,643	12,427
Dry (22%)	10,279	12,868	15,442	17,444	21,202	20,656	12,990	10,959	12,222	19,272	16,965	12,155
Critical (15%)	10,073	9,633	11,816	14,281	14,708	13,245	10,229	7,749	9,884	15,397	10,095	8,485

Alternative 9 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,875	21,280	46,850	66,066	70,409	62,166	45,740	33,733	17,834	24,544	17,186	30,722
20%	13,580	18,271	30,312	56,595	63,029	51,595	32,210	21,939	16,675	22,839	16,842	27,564
30%	12,675	16,700	20,958	38,932	49,123	39,341	22,671	17,424	15,261	21,462	16,577	23,501
40%	11,996	15,063	17,579	25,092	42,260	29,404	19,819	15,568	14,628	20,634	16,200	21,164
50%	10,965	14,162	15,372	21,556	30,909	23,794	15,879	14,281	13,850	19,023	15,770	13,203
60%	9,213	11,510	14,408	18,163	22,870	20,701	12,996	12,941	13,467	17,902	14,796	11,528
70%	8,767	10,032	13,487	14,760	18,525	18,207	12,046	11,770	12,844	16,705	13,639	8,855
80%	7,937	9,276	10,995	13,441	15,324	15,004	11,272	11,000	11,541	14,139	11,976	7,901
90%	7,080	7,910	9,390	11,763	11,726	11,410	10,595	8,230	10,526	12,136	9,730	7,575
Long Term												
Full Simulation Period[a]	10,958	14,812	22,051	31,080	36,857	31,560	22,096	17,459	14,837	18,754	14,571	17,021
Water Year Types[b]												
Wet (32%)	12,917	19,189	35,191	51,284	58,328	48,918	35,337	24,704	18,559	20,891	15,854	28,217
Above Normal (15%)	10,362	15,692	21,671	38,473	46,267	42,536	23,766	19,044	16,301	22,212	16,779	20,943
Below Normal (17%)	10,591	13,674	16,455	21,278	29,941	21,609	16,921	14,190	13,597	19,039	15,759	12,502
Dry (22%)	10,309	12,182	14,881	16,286	20,243	19,473	13,721	14,347	12,771	16,983	13,418	8,393
Critical (15%)	8,711	9,725	11,244	13,540	13,919	12,714	10,333	8,661	9,855	12,989	9,924	7,053

Alternative 9 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-454**	**-3,104**	**-4,315**	2,387	1,869	1,007	**-4,439**	**-8,147**	**-8,025**	1,222	**-689**	11,237
20%	**-108**	2,490	**-5,896**	525	2,011	**-203**	**-6,231**	**-5,850**	**-3,509**	347	**-592**	10,548
30%	**-110**	2,190	**-3,914**	**-2,193**	**-1,891**	**-3,745**	**-807**	**-1,112**	239	309	**-199**	9,500
40%	313	1,556	**-780**	**-5,882**	**-1,271**	**-4,349**	**-655**	396	915	446	**-262**	7,597
50%	**-219**	2,006	**-996**	**-3,266**	**-2,606**	**-3,351**	**-257**	736	709	**-644**	**-253**	78
60%	**-1,335**	404	**-561**	**-1,391**	**-1,810**	**-1,318**	**-224**	1,024	967	**-1,532**	**-751**	**-1,167**
70%	**-942**	**-759**	562	**-988**	**-1,383**	**-936**	93	935	692	**-2,341**	**-1,441**	**-3,093**
80%	**-988**	**-287**	**-507**	26	452	**-329**	84	972	45	**-2,902**	**-1,336**	**-3,072**
90%	**-524**	**-494**	**-459**	**-778**	**-1,294**	**-170**	846	**-543**	379	**-2,310**	**-266**	**-392**
Long Term												
Full Simulation Period[a]	**-655**	25	**-1,676**	**-891**	**-258**	**-1,274**	**-1,073**	**-1,716**	**-1,574**	**-766**	**-640**	3,270
Water Year Types[b]												
Wet (32%)	**-588**	**-258**	**-4,517**	323	1,014	**-498**	**-2,471**	**-7,244**	**-5,340**	1,015	38	9,963
Above Normal (15%)	**-757**	383	8	**-1,390**	590	**-1,959**	**-2,213**	**-1,977**	**-8**	638	902	7,745
Below Normal (17%)	**-967**	1,100	**-223**	**-2,503**	**-1,993**	**-2,879**	**-830**	**-37**	22	**-1,914**	117	75
Dry (22%)	30	**-687**	**-561**	**-1,158**	**-959**	**-1,183**	731	3,388	548	**-2,289**	**-3,547**	**-3,762**
Critical (15%)	**-1,362**	93	**-572**	**-741**	**-789**	**-531**	104	911	**-28**	**-2,408**	**-171**	**-1,432**

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-21-14. Sacramento River d/s of North Delta Diversion, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,435	20,962	48,944	66,024	70,601	64,123	49,287	33,970	18,605	24,301	17,873	28,941
20%	13,466	17,873	34,439	58,570	65,193	55,046	37,041	22,009	16,346	23,779	17,155	26,906
30%	13,050	16,500	22,195	41,078	51,329	43,737	22,974	15,877	15,446	23,144	16,643	23,495
40%	12,844	15,147	18,423	27,661	44,444	32,669	20,071	12,621	14,435	22,326	16,248	21,825
50%	12,222	13,967	15,978	23,077	34,352	25,226	15,091	11,917	13,529	21,328	15,814	12,816
60%	11,262	11,948	14,363	20,433	24,240	21,431	12,186	11,232	13,181	20,083	15,297	10,709
70%	10,150	9,878	13,693	17,598	18,831	18,863	11,465	10,915	12,650	18,123	14,198	9,131
80%	9,031	8,450	11,957	13,731	15,981	15,235	11,202	9,724	11,864	15,988	13,056	8,010
90%	7,567	7,451	8,981	12,260	12,487	11,683	10,128	8,700	10,906	12,214	9,128	7,614
Long Term												
Full Simulation Period[a]	11,776	14,647	22,784	32,595	38,087	33,134	22,826	16,295	14,880	19,797	14,891	16,763
Water Year Types[b]												
Wet (32%)	13,277	19,285	37,022	52,878	59,847	50,993	37,543	24,500	18,603	21,425	16,064	27,212
Above Normal (15%)	11,864	15,925	22,629	40,484	47,786	45,088	24,931	18,657	16,051	22,727	17,491	21,006
Below Normal (17%)	12,124	13,037	16,692	22,653	31,592	22,915	17,128	12,394	13,898	20,513	16,232	12,306
Dry (22%)	10,487	11,914	15,159	17,451	21,107	20,650	12,904	11,427	12,656	18,957	14,351	8,620
Critical (15%)	9,964	9,295	10,632	15,073	14,291	13,137	10,365	8,011	10,123	13,767	8,996	7,292

Alternative 1A,1B,1C (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	20,266	17,331	38,958	54,252	61,703	54,353	37,576	21,417	15,719	19,768	12,224	9,398
20%	18,336	8,983	27,023	44,343	52,554	41,185	22,140	14,896	15,036	17,569	10,837	8,391
30%	16,549	8,440	20,615	29,862	37,584	30,580	16,919	13,104	13,662	16,213	10,135	7,938
40%	14,902	8,410	17,783	22,106	32,698	20,871	14,682	12,307	12,778	14,901	9,509	7,795
50%	13,511	8,357	16,223	20,385	22,062	17,396	13,582	11,915	12,331	13,716	8,908	7,772
60%	11,058	8,231	14,573	18,073	18,179	15,704	12,586	11,336	11,936	12,711	8,476	7,725
70%	9,030	8,042	13,653	16,026	15,957	14,816	11,954	10,876	11,376	10,808	8,070	7,683
80%	8,837	7,748	11,937	13,620	14,297	12,663	10,877	9,919	10,848	9,877	7,925	7,618
90%	7,161	7,199	9,361	12,130	11,841	10,925	10,366	8,285	9,965	8,496	7,724	7,418
Long Term												
Full Simulation Period[a]	13,500	10,126	20,525	26,698	30,880	25,682	18,279	13,663	12,847	13,993	9,625	8,123
Water Year Types[b]												
Wet (32%)	13,281	13,258	31,205	42,014	48,632	40,210	27,818	17,764	14,397	15,809	9,210	7,963
Above Normal (15%)	13,607	9,667	21,404	32,151	37,562	33,116	17,618	14,932	14,276	15,970	11,175	8,249
Below Normal (17%)	14,504	8,487	15,751	18,962	24,113	16,602	14,856	12,411	13,069	14,056	9,744	7,900
Dry (22%)	12,687	8,551	14,448	16,372	17,556	16,014	12,911	11,868	11,844	12,278	10,152	8,330
Critical (15%)	13,918	8,074	11,195	12,576	13,618	11,863	10,315	7,660	9,306	10,579	8,047	8,298

Alternative 1A,1B,1C (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5,831	-3,630	-9,986	-11,772	-8,898	-9,769	-11,711	-12,552	-2,886	-4,533	-5,649	-19,543
20%	4,870	-8,890	-7,416	-14,227	-12,639	-13,861	-14,901	-7,113	-1,310	-6,210	-6,318	-18,515
30%	3,499	-8,059	-1,580	-11,216	-13,745	-13,156	-6,054	-2,773	-1,785	-6,931	-6,509	-15,557
40%	2,058	-6,737	-640	-5,555	-11,746	-11,798	-5,389	-314	-1,657	-7,425	-6,739	-14,030
50%	1,289	-5,610	245	-2,693	-12,291	-7,830	-1,509	-2	-1,198	-7,612	-6,906	-5,045
60%	-205	-3,717	210	-2,360	-6,061	-5,726	400	104	-1,245	-7,372	-6,821	-2,984
70%	-1,120	-1,836	-40	-1,572	-2,874	-4,047	489	-39	-1,273	-7,315	-6,128	-1,448
80%	-193	-702	-20	-111	-1,683	-2,571	-325	195	-1,016	-6,111	-5,131	-391
90%	-406	-252	379	-130	-646	-757	239	-415	-941	-3,719	-1,404	-196
Long Term												
Full Simulation Period[a]	1,724	-4,521	-2,258	-5,897	-7,207	-7,453	-4,548	-2,632	-2,032	-5,804	-5,266	-8,639
Water Year Types[b]												
Wet (32%)	4	-6,027	-5,817	-10,864	-11,214	-10,783	-9,725	-6,736	-4,206	-5,616	-6,853	-19,250
Above Normal (15%)	1,743	-6,258	-1,225	-8,333	-10,224	-11,972	-7,313	-3,724	-1,775	-6,757	-6,316	-12,757
Below Normal (17%)	2,381	-4,549	-941	-3,691	-7,479	-6,312	-2,272	16	-828	-6,457	-6,488	-4,406
Dry (22%)	2,200	-3,363	-711	-1,079	-3,551	-4,636	7	442	-812	-6,679	-4,199	-291
Critical (15%)	3,954	-1,222	562	-2,497	-673	-1,274	-50	-351	-816	-3,188	-950	1,005

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-21-15. Sacramento River d/s of North Delta Diversion, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,435	20,962	48,944	66,024	70,601	64,123	49,287	33,970	18,605	24,301	17,873	28,941
20%	13,466	17,873	34,439	58,570	65,193	55,046	37,041	22,009	16,346	23,779	17,155	26,906
30%	13,050	16,500	22,195	41,078	51,329	43,737	22,974	15,877	15,446	23,144	16,643	23,495
40%	12,844	15,147	18,423	27,661	44,444	32,669	20,071	12,621	14,435	22,326	16,248	21,825
50%	12,222	13,967	15,978	23,077	34,352	25,226	15,091	11,917	13,529	21,328	15,814	12,816
60%	11,262	11,948	14,363	20,433	24,240	21,431	12,186	11,232	13,181	20,083	15,297	10,709
70%	10,150	9,878	13,693	17,598	18,831	18,863	11,465	10,915	12,650	18,123	14,198	9,131
80%	9,031	8,450	11,957	13,731	15,981	15,235	11,202	9,724	11,864	15,988	13,056	8,010
90%	7,567	7,451	8,981	12,260	12,487	11,683	10,128	8,700	10,906	12,214	9,128	7,614
Long Term												
Full Simulation Period[a]	11,776	14,647	22,784	32,595	38,087	33,134	22,826	16,295	14,880	19,797	14,891	16,763
Water Year Types[b]												
Wet (32%)	13,277	19,285	37,022	52,878	59,847	50,993	37,543	24,500	18,603	21,425	16,064	27,212
Above Normal (15%)	11,864	15,925	22,629	40,484	47,786	45,088	24,931	18,657	16,051	22,727	17,491	21,006
Below Normal (17%)	12,124	13,037	16,692	22,653	31,592	22,915	17,128	12,394	13,898	20,513	16,232	12,306
Dry (22%)	10,487	11,914	15,159	17,451	21,107	20,650	12,904	11,427	12,656	18,957	14,351	8,620
Critical (15%)	9,964	9,295	10,632	15,073	14,291	13,137	10,365	8,011	10,123	13,767	8,996	7,292

Alternative 2A,2B,2C (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,467	14,904	36,988	51,984	58,527	51,857	35,254	21,440	15,489	22,289	13,380	21,177
20%	12,783	12,472	27,046	42,789	51,149	38,422	21,316	14,674	14,347	18,591	11,712	20,129
30%	10,641	10,714	19,226	28,647	36,049	29,035	15,654	12,860	13,472	17,577	10,921	15,362
40%	9,308	9,938	16,718	20,376	32,039	19,306	13,444	12,255	12,874	16,069	10,194	12,728
50%	9,036	8,886	14,858	18,686	21,220	17,107	12,091	11,663	12,271	15,373	9,551	11,723
60%	8,932	8,428	13,421	16,986	18,146	15,561	11,763	10,969	11,925	14,087	9,123	9,126
70%	8,819	8,269	12,845	14,400	15,568	14,251	10,992	10,528	11,388	11,646	8,584	7,853
80%	8,252	7,977	12,422	12,658	14,177	12,578	10,416	9,459	10,755	10,207	8,189	7,708
90%	7,103	7,031	9,059	11,454	11,424	10,775	9,940	8,030	9,267	8,758	7,894	7,434
Long Term												
Full Simulation Period[a]	10,038	10,963	19,671	25,562	29,834	24,952	17,434	13,405	12,733	15,159	10,184	12,821
Water Year Types[b]												
Wet (32%)	10,130	13,973	29,862	40,419	46,712	38,511	26,975	17,350	14,262	16,241	9,536	19,822
Above Normal (15%)	10,490	11,369	19,798	30,852	36,520	32,919	16,667	14,639	13,581	18,516	11,496	13,394
Below Normal (17%)	9,995	9,556	15,555	17,663	23,503	15,997	13,920	12,188	13,028	16,620	11,431	8,434
Dry (22%)	9,611	9,210	13,998	14,801	17,208	15,698	11,935	11,691	11,879	13,125	10,382	8,621
Critical (15%)	10,078	8,303	10,776	13,442	12,905	11,938	9,880	7,612	9,507	10,805	8,527	8,497

Alternative 2A,2B,2C (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	32	-6,057	-11,957	-14,039	-12,074	-12,265	-14,034	-12,530	-3,116	-2,012	-4,492	-7,763
20%	-684	-5,401	-7,393	-15,780	-14,044	-16,624	-15,726	-7,335	-1,999	-5,187	-5,443	-6,777
30%	-2,408	-5,786	-2,969	-12,431	-15,280	-14,701	-7,320	-3,017	-1,974	-5,567	-5,723	-8,133
40%	-3,535	-5,209	-1,706	-7,285	-12,405	-13,364	-6,627	-367	-1,562	-6,257	-6,054	-9,097
50%	-3,186	-5,081	-1,120	-4,392	-13,133	-8,119	-3,000	-254	-1,258	-5,955	-6,263	-1,094
60%	-2,331	-3,521	-943	-3,446	-6,093	-5,869	-423	-263	-1,256	-5,996	-6,174	-1,583
70%	-1,332	-1,609	-849	-3,198	-3,263	-4,612	-474	-387	-1,262	-6,477	-5,614	-1,278
80%	-779	-473	465	-1,074	-1,804	-2,657	-786	-265	-1,108	-5,781	-4,866	-302
90%	-464	-421	77	-807	-1,063	-908	-187	-670	-1,639	-3,457	-1,233	-180
Long Term												
Full Simulation Period[a]	-1,738	-3,684	-3,113	-7,032	-8,253	-8,182	-5,392	-2,891	-2,147	-4,638	-4,707	-3,942
Water Year Types[b]												
Wet (32%)	-3,148	-5,312	-7,160	-12,459	-13,135	-12,482	-10,568	-7,150	-4,342	-5,184	-6,528	-7,391
Above Normal (15%)	-1,374	-4,556	-2,831	-9,632	-11,266	-12,169	-8,264	-4,018	-2,470	-4,211	-5,995	-7,612
Below Normal (17%)	-2,129	-3,480	-1,137	-4,989	-8,089	-6,918	-3,209	-206	-869	-3,892	-4,801	-3,872
Dry (22%)	-876	-2,704	-1,161	-2,650	-3,898	-4,951	-969	264	-777	-5,832	-3,969	1
Critical (15%)	113	-993	143	-1,631	-1,386	-1,199	-486	-399	-615	-2,962	-470	1,204

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-21-16. Sacramento River d/s of North Delta Diversion, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,435	20,962	48,944	66,024	70,601	64,123	49,287	33,970	18,605	24,301	17,873	28,941
20%	13,466	17,873	34,439	58,570	65,193	55,046	37,041	22,009	16,346	23,779	17,155	26,906
30%	13,050	16,500	22,195	41,078	51,329	43,737	22,974	15,877	15,446	23,144	16,643	23,495
40%	12,844	15,147	18,423	27,661	44,444	32,669	20,071	12,621	14,435	22,326	16,248	21,825
50%	12,222	13,967	15,978	23,077	34,352	25,226	15,091	11,917	13,529	21,328	15,814	12,816
60%	11,262	11,948	14,363	20,433	24,240	21,431	12,186	11,232	13,181	20,083	15,297	10,709
70%	10,150	9,878	13,693	17,598	18,831	18,863	11,465	10,915	12,650	18,123	14,198	9,131
80%	9,031	8,450	11,957	13,731	15,981	15,235	11,202	9,724	11,864	15,988	13,056	8,010
90%	7,567	7,451	8,981	12,260	12,487	11,683	10,128	8,700	10,906	12,214	9,128	7,614
Long Term												
Full Simulation Period[a]	11,776	14,647	22,784	32,595	38,087	33,134	22,826	16,295	14,880	19,797	14,891	16,763
Water Year Types[b]												
Wet (32%)	13,277	19,285	37,022	52,878	59,847	50,993	37,543	24,500	18,603	21,425	16,064	27,212
Above Normal (15%)	11,864	15,925	22,629	40,484	47,786	45,088	24,931	18,657	16,051	22,727	17,491	21,006
Below Normal (17%)	12,124	13,037	16,692	22,653	31,592	22,915	17,128	12,394	13,898	20,513	16,232	12,306
Dry (22%)	10,487	11,914	15,159	17,451	21,107	20,650	12,904	11,427	12,656	18,957	14,351	8,620
Critical (15%)	9,964	9,295	10,632	15,073	14,291	13,137	10,365	8,011	10,123	13,767	8,996	7,292

Alternative 3 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	19,937	18,682	43,566	59,945	64,907	56,123	41,913	27,868	18,345	21,062	12,550	10,509
20%	17,824	10,773	28,710	51,504	56,863	45,815	27,267	18,245	15,809	18,327	11,462	8,887
30%	16,152	9,020	21,144	34,522	43,833	34,797	18,922	14,369	14,624	17,205	10,011	7,986
40%	14,606	8,471	17,999	23,635	38,844	23,699	15,843	12,962	13,731	15,308	9,582	7,802
50%	13,490	8,412	16,361	21,133	24,897	19,642	13,414	12,074	12,488	14,047	8,886	7,772
60%	10,964	8,361	14,965	19,198	19,201	16,855	12,413	11,370	11,886	12,957	8,295	7,730
70%	9,066	8,273	14,037	15,596	16,784	15,512	11,797	10,931	11,353	11,342	8,088	7,704
80%	8,863	8,135	12,300	13,224	14,706	13,955	10,958	10,133	10,913	9,661	7,924	7,608
90%	7,302	7,812	9,374	12,004	12,246	11,369	10,327	8,286	9,956	8,544	7,742	7,406
Long Term												
Full Simulation Period[a]	13,415	10,873	21,751	29,237	33,535	27,969	19,772	15,096	13,660	14,566	9,751	8,421
Water Year Types[b]												
Wet (32%)	13,568	14,617	33,793	47,110	52,834	43,239	31,285	21,012	16,649	16,224	9,409	8,534
Above Normal (15%)	14,074	10,477	22,076	35,796	41,555	38,037	20,064	16,732	15,314	16,596	11,332	8,740
Below Normal (17%)	13,743	8,652	16,691	20,276	26,948	18,251	15,612	12,836	13,144	15,349	10,460	8,112
Dry (22%)	12,294	9,347	15,185	16,758	18,985	17,175	12,515	12,132	11,544	12,628	9,704	8,225
Critical (15%)	13,727	8,035	11,087	13,124	13,210	12,343	10,273	7,720	9,302	10,940	8,150	8,512

Alternative 3 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5,502	-2,280	-5,379	-6,079	-5,693	-8,000	-7,374	-6,101	-260	-3,239	-5,323	-18,432
20%	4,358	-7,099	-5,729	-7,065	-8,330	-9,231	-9,775	-3,764	-538	-5,452	-5,692	-18,019
30%	3,103	-7,480	-1,051	-6,556	-7,496	-8,939	-4,052	-1,509	-822	-5,938	-6,633	-15,509
40%	1,762	-6,676	-424	-4,026	-5,600	-8,970	-4,228	341	-704	-7,018	-6,666	-14,023
50%	1,268	-5,555	382	-1,945	-9,455	-5,584	-1,676	156	-1,041	-7,280	-6,928	-5,045
60%	-298	-3,587	601	-1,235	-5,039	-4,576	227	139	-1,294	-7,126	-7,002	-2,979
70%	-1,085	-1,604	343	-2,002	-2,047	-3,351	332	16	-1,297	-6,780	-6,111	-1,428
80%	-168	-315	344	-508	-1,275	-1,280	-244	408	-950	-6,327	-5,131	-401
90%	-264	361	393	-256	-241	-314	200	-415	-950	-3,671	-1,385	-207
Long Term												
Full Simulation Period[a]	1,639	-3,774	-1,033	-3,358	-4,552	-5,166	-3,054	-1,200	-1,220	-5,231	-5,141	-8,342
Water Year Types[b]												
Wet (32%)	290	-4,668	-3,229	-5,768	-7,013	-7,754	-6,258	-3,488	-1,955	-5,201	-6,655	-18,678
Above Normal (15%)	2,210	-5,448	-552	-4,689	-6,231	-7,051	-4,868	-1,925	-737	-6,131	-6,159	-12,266
Below Normal (17%)	1,619	-4,384	-1	-2,376	-4,644	-4,663	-1,517	442	-753	-5,163	-5,772	-4,194
Dry (22%)	1,807	-2,567	26	-693	-2,121	-3,475	-389	705	-1,111	-6,329	-4,647	-395
Critical (15%)	3,763	-1,260	455	-1,949	-1,080	-794	-92	-291	-820	-2,827	-846	1,220

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-21-17. Sacramento River d/s of North Delta Diversion, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,435	20,962	48,944	66,024	70,601	64,123	49,287	33,970	18,605	24,301	17,873	28,941
20%	13,466	17,873	34,439	58,570	65,193	55,046	37,041	22,009	16,346	23,779	17,155	26,906
30%	13,050	16,500	22,195	41,078	51,329	43,737	22,974	15,877	15,446	23,144	16,643	23,495
40%	12,844	15,147	18,423	27,661	44,444	32,669	20,071	12,621	14,435	22,326	16,248	21,825
50%	12,222	13,967	15,978	23,077	34,352	25,226	15,091	11,917	13,529	21,328	15,814	12,816
60%	11,262	11,948	14,363	20,433	24,240	21,431	12,186	11,232	13,181	20,083	15,297	10,709
70%	10,150	9,878	13,693	17,598	18,831	18,863	11,465	10,915	12,650	18,123	14,198	9,131
80%	9,031	8,450	11,957	13,731	15,981	15,235	11,202	9,724	11,864	15,988	13,056	8,010
90%	7,567	7,451	8,981	12,260	12,487	11,683	10,128	8,700	10,906	12,214	9,128	7,614
Long Term												
Full Simulation Period[a]	11,776	14,647	22,784	32,595	38,087	33,134	22,826	16,295	14,880	19,797	14,891	16,763
Water Year Types[b]												
Wet (32%)	13,277	19,285	37,022	52,878	59,847	50,993	37,543	24,500	18,603	21,425	16,064	27,212
Above Normal (15%)	11,864	15,925	22,629	40,484	47,786	45,088	24,931	18,657	16,051	22,727	17,491	21,006
Below Normal (17%)	12,124	13,037	16,692	22,653	31,592	22,915	17,128	12,394	13,898	20,513	16,232	12,306
Dry (22%)	10,487	11,914	15,159	17,451	21,107	20,650	12,904	11,427	12,656	18,957	14,351	8,620
Critical (15%)	9,964	9,295	10,632	15,073	14,291	13,137	10,365	8,011	10,123	13,767	8,996	7,292

Alternative 4 H1 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,316	16,607	42,593	58,127	61,917	53,115	37,827	24,988	16,223	23,904	14,434	10,610
20%	12,617	9,148	28,691	48,685	54,014	42,936	23,360	16,165	14,619	22,240	12,650	9,413
30%	10,884	8,479	19,907	31,694	41,704	33,591	16,172	13,277	13,962	19,615	11,390	8,202
40%	9,662	8,408	17,441	22,071	36,234	21,757	13,906	12,409	13,423	17,411	10,446	7,835
50%	9,011	8,362	15,532	19,895	22,978	17,941	12,130	11,666	12,887	15,680	9,629	7,785
60%	8,860	8,301	13,849	18,129	18,236	15,957	11,912	10,621	11,983	14,167	9,150	7,762
70%	8,709	8,135	12,813	15,683	16,527	14,643	11,025	10,445	11,700	12,599	8,579	7,718
80%	7,864	7,903	11,844	13,004	14,369	13,230	10,448	9,589	10,894	10,212	8,159	7,666
90%	7,253	7,053	9,065	11,466	11,538	11,013	9,914	8,049	9,274	8,724	7,847	7,556
Long Term												
Full Simulation Period[a]	10,108	10,262	20,906	27,849	31,992	26,401	18,149	13,941	13,134	16,100	10,609	8,541
Water Year Types[b]												
Wet (32%)	10,243	13,472	32,758	44,637	50,234	40,575	28,525	18,675	14,999	17,886	9,874	8,137
Above Normal (15%)	10,574	10,283	20,699	34,572	40,095	36,077	17,833	15,550	13,982	20,243	12,203	8,939
Below Normal (17%)	10,494	8,404	15,969	18,739	25,892	16,891	14,230	12,064	13,415	16,670	11,902	8,041
Dry (22%)	9,364	8,795	14,196	15,344	17,651	16,418	11,925	11,686	12,119	14,341	10,855	9,148
Critical (15%)	10,018	7,654	11,263	14,139	12,995	12,081	9,893	7,645	9,435	10,060	8,727	8,693

Alternative 4 H1 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-119	-4,355	-6,351	-7,897	-8,684	-11,008	-11,460	-8,982	-2,382	-397	-3,438	-18,331
20%	-850	-8,725	-5,748	-9,885	-11,179	-12,110	-13,681	-5,844	-1,727	-1,539	-4,505	-17,493
30%	-2,165	-8,020	-2,288	-9,384	-9,625	-10,146	-6,802	-2,600	-1,484	-3,529	-5,253	-15,293
40%	-3,181	-6,739	-982	-5,590	-8,210	-10,912	-6,165	-213	-1,012	-4,915	-5,802	-13,990
50%	-3,211	-5,605	-446	-3,182	-11,374	-7,285	-2,960	-251	-642	-5,647	-6,185	-5,032
60%	-2,402	-3,647	-515	-2,304	-6,004	-5,474	-274	-611	-1,197	-5,916	-6,147	-2,947
70%	-1,441	-1,742	-880	-1,915	-2,304	-4,219	-440	-470	-950	-5,523	-5,619	-1,413
80%	-1,167	-547	-112	-728	-1,612	-2,004	-754	-135	-969	-5,776	-4,897	-344
90%	-314	-398	83	-795	-949	-670	-214	-651	-1,632	-3,490	-1,281	-58
Long Term												
Full Simulation Period[a]	-1,668	-4,385	-1,877	-4,746	-6,095	-6,734	-4,677	-2,355	-1,746	-3,698	-4,283	-8,222
Water Year Types[b]												
Wet (32%)	-3,034	-5,813	-4,265	-8,241	-9,613	-10,418	-9,019	-5,825	-3,604	-3,539	-6,190	-19,075
Above Normal (15%)	-1,289	-5,642	-1,929	-5,912	-7,691	-9,011	-7,098	-3,106	-2,069	-2,485	-5,288	-12,067
Below Normal (17%)	-1,629	-4,633	-724	-3,914	-5,700	-6,023	-2,898	-331	-482	-3,843	-4,330	-4,265
Dry (22%)	-1,122	-3,119	-963	-2,107	-3,456	-4,232	-978	259	-536	-4,616	-3,496	528
Critical (15%)	54	-1,641	630	-934	-1,296	-1,056	-472	-366	-687	-3,707	-269	1,400

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-21-18. Sacramento River d/s of North Delta Diversion, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,435	20,962	48,944	66,024	70,601	64,123	49,287	33,970	18,605	24,301	17,873	28,941
20%	13,466	17,873	34,439	58,570	65,193	55,046	37,041	22,009	16,346	23,779	17,155	26,906
30%	13,050	16,500	22,195	41,078	51,329	43,737	22,974	15,877	15,446	23,144	16,643	23,495
40%	12,844	15,147	18,423	27,661	44,444	32,669	20,071	12,621	14,435	22,326	16,248	21,825
50%	12,222	13,967	15,978	23,077	34,352	25,226	15,091	11,917	13,529	21,328	15,814	12,816
60%	11,262	11,948	14,363	20,433	24,240	21,431	12,186	11,232	13,181	20,083	15,297	10,709
70%	10,150	9,878	13,693	17,598	18,831	18,863	11,465	10,915	12,650	18,123	14,198	9,131
80%	9,031	8,450	11,957	13,731	15,981	15,235	11,202	9,724	11,864	15,988	13,056	8,010
90%	7,567	7,451	8,981	12,260	12,487	11,683	10,128	8,700	10,906	12,214	9,128	7,614
Long Term												
Full Simulation Period[a]	11,776	14,647	22,784	32,595	38,087	33,134	22,826	16,295	14,880	19,797	14,891	16,763
Water Year Types[b]												
Wet (32%)	13,277	19,285	37,022	52,878	59,847	50,993	37,543	24,500	18,603	21,425	16,064	27,212
Above Normal (15%)	11,864	15,925	22,629	40,484	47,786	45,088	24,931	18,657	16,051	22,727	17,491	21,006
Below Normal (17%)	12,124	13,037	16,692	22,653	31,592	22,915	17,128	12,394	13,898	20,513	16,232	12,306
Dry (22%)	10,487	11,914	15,159	17,451	21,107	20,650	12,904	11,427	12,656	18,957	14,351	8,620
Critical (15%)	9,964	9,295	10,632	15,073	14,291	13,137	10,365	8,011	10,123	13,767	8,996	7,292

Alternative 4 H2 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,574	16,646	45,034	58,880	62,409	53,900	39,982	27,271	15,260	20,316	14,375	12,391
20%	12,645	8,508	29,230	47,558	53,841	42,952	27,998	19,616	13,517	19,169	13,190	10,437
30%	10,697	8,420	20,157	32,735	42,270	30,297	25,008	17,212	12,489	17,544	12,612	9,259
40%	9,046	8,385	17,410	22,794	36,334	24,472	21,295	14,912	11,557	16,500	11,976	8,225
50%	8,955	8,323	14,915	20,319	23,664	20,696	17,549	12,623	11,287	15,184	10,558	7,818
60%	8,831	8,240	13,594	18,116	18,503	18,983	13,199	11,591	10,820	13,384	9,318	7,773
70%	8,580	8,084	11,482	15,950	16,678	16,030	11,040	10,574	10,334	12,233	8,766	7,741
80%	8,052	7,806	9,877	13,653	14,000	13,857	10,327	9,713	9,888	9,625	8,186	7,705
90%	7,204	6,987	8,842	11,874	10,835	10,769	9,512	8,068	9,002	8,493	7,813	7,586
Long Term												
Full Simulation Period[a]	10,031	10,327	20,609	28,099	32,062	27,372	20,971	15,546	12,050	14,888	10,911	8,980
Water Year Types[b]												
Wet (32%)	9,994	13,653	33,605	44,482	50,033	42,051	32,600	22,164	13,271	15,749	9,879	8,227
Above Normal (15%)	10,707	10,247	19,421	34,999	40,123	36,263	23,186	18,067	11,897	15,907	11,980	9,146
Below Normal (17%)	9,628	8,534	15,185	19,332	26,821	19,063	18,697	13,225	12,811	16,028	12,575	9,534
Dry (22%)	9,476	8,710	13,509	15,937	17,589	16,961	12,030	11,426	11,746	14,891	11,890	9,553
Critical (15%)	10,738	7,721	10,616	14,176	12,886	11,983	9,626	7,575	9,127	10,670	8,666	8,942

Alternative 4 H2 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	139	-4,315	-3,910	-7,144	-8,192	-10,223	-9,305	-6,698	-3,345	-3,985	-3,498	-16,550
20%	-821	-9,365	-5,210	-11,012	-11,352	-12,094	-9,043	-2,393	-2,830	-4,610	-3,965	-16,470
30%	-2,353	-8,079	-2,038	-8,343	-9,059	-13,440	2,034	1,334	-2,958	-5,599	-4,031	-14,236
40%	-3,798	-6,762	-1,014	-4,867	-8,111	-8,198	1,224	2,291	-2,879	-5,826	-4,272	-13,599
50%	-3,267	-5,644	-1,063	-2,759	-10,689	-4,529	2,458	705	-2,242	-6,143	-5,257	-4,999
60%	-2,431	-3,709	-770	-2,317	-5,737	-2,448	1,013	360	-2,361	-6,699	-5,979	-2,936
70%	-1,570	-1,793	-2,211	-1,648	-2,153	-2,832	-425	-341	-2,316	-5,890	-5,432	-1,390
80%	-978	-644	-2,079	-79	-1,981	-1,377	-875	-11	-1,975	-6,362	-4,869	-305
90%	-362	-465	-140	-386	-1,651	-914	-615	-633	-1,904	-3,721	-1,315	-28
Long Term												
Full Simulation Period[a]	-1,745	-4,319	-2,175	-4,496	-6,026	-5,763	-1,855	-749	-2,830	-4,909	-3,980	-7,783
Water Year Types[b]												
Wet (32%)	-3,283	-5,632	-3,417	-8,396	-9,814	-8,941	-4,944	-2,336	-5,332	-5,677	-6,185	-18,986
Above Normal (15%)	-1,156	-5,678	-3,208	-5,486	-7,663	-8,825	-1,745	-589	-4,155	-6,820	-5,511	-11,860
Below Normal (17%)	-2,495	-4,503	-1,507	-3,321	-4,771	-3,852	1,569	831	-1,087	-4,484	-3,657	-2,773
Dry (22%)	-1,010	-3,204	-1,650	-1,514	-3,518	-3,689	-874	-1	-910	-4,066	-2,461	932
Critical (15%)	774	-1,574	-17	-897	-1,404	-1,154	-739	-437	-995	-3,097	-330	1,650

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-21-19. Sacramento River d/s of North Delta Diversion, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,435	20,962	48,944	66,024	70,601	64,123	49,287	33,970	18,605	24,301	17,873	28,941
20%	13,466	17,873	34,439	58,570	65,193	55,046	37,041	22,009	16,346	23,779	17,155	26,906
30%	13,050	16,500	22,195	41,078	51,329	43,737	22,974	15,877	15,446	23,144	16,643	23,495
40%	12,844	15,147	18,423	27,661	44,444	32,669	20,071	12,621	14,435	22,326	16,248	21,825
50%	12,222	13,967	15,978	23,077	34,352	25,226	15,091	11,917	13,529	21,328	15,814	12,816
60%	11,262	11,948	14,363	20,433	24,240	21,431	12,186	11,232	13,181	20,083	15,297	10,709
70%	10,150	9,878	13,693	17,598	18,831	18,863	11,465	10,915	12,650	18,123	14,198	9,131
80%	9,031	8,450	11,957	13,731	15,981	15,235	11,202	9,724	11,864	15,988	13,056	8,010
90%	7,567	7,451	8,981	12,260	12,487	11,683	10,128	8,700	10,906	12,214	9,128	7,614
Long Term												
Full Simulation Period[a]	11,776	14,647	22,784	32,595	38,087	33,134	22,826	16,295	14,880	19,797	14,891	16,763
Water Year Types[b]												
Wet (32%)	13,277	19,285	37,022	52,878	59,847	50,993	37,543	24,500	18,603	21,425	16,064	27,212
Above Normal (15%)	11,864	15,925	22,629	40,484	47,786	45,088	24,931	18,657	16,051	22,727	17,491	21,006
Below Normal (17%)	12,124	13,037	16,692	22,653	31,592	22,915	17,128	12,394	13,898	20,513	16,232	12,306
Dry (22%)	10,487	11,914	15,159	17,451	21,107	20,650	12,904	11,427	12,656	18,957	14,351	8,620
Critical (15%)	9,964	9,295	10,632	15,073	14,291	13,137	10,365	8,011	10,123	13,767	8,996	7,292

Alternative 4 H3 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,712	14,933	41,385	56,774	61,553	53,112	36,794	24,977	16,222	23,588	14,616	20,862
20%	11,817	12,493	28,040	48,057	54,463	42,617	23,561	16,042	14,605	22,096	12,733	20,066
30%	9,874	10,814	18,862	31,725	41,202	31,105	16,369	13,288	13,800	19,168	11,413	15,948
40%	9,059	10,273	16,948	21,260	36,258	21,771	13,877	12,277	13,214	17,553	10,607	12,779
50%	8,975	9,059	14,913	19,549	23,024	17,508	12,274	11,728	12,968	16,030	9,736	11,635
60%	8,831	8,466	13,327	16,774	18,518	16,062	11,720	10,881	12,022	14,519	9,495	9,417
70%	8,610	8,349	12,768	14,723	15,750	15,029	10,782	10,426	11,733	12,256	9,113	7,814
80%	8,070	8,010	11,931	12,894	14,364	12,963	10,305	9,457	10,847	10,423	8,176	7,689
90%	7,233	7,028	9,058	11,554	11,389	10,716	9,853	8,030	9,317	8,740	7,924	7,386
Long Term												
Full Simulation Period[a]	9,831	11,219	20,154	27,220	31,736	26,086	18,066	13,953	13,124	16,151	10,733	12,874
Water Year Types[b]												
Wet (32%)	10,166	14,622	31,257	43,883	49,932	40,299	28,339	18,652	15,070	18,173	10,427	19,827
Above Normal (15%)	10,291	11,531	20,348	33,047	39,397	35,162	17,897	15,722	14,041	20,291	12,175	13,210
Below Normal (17%)	10,197	9,467	15,155	18,431	25,437	16,710	14,235	12,134	13,247	17,266	12,274	8,515
Dry (22%)	9,011	9,467	13,977	14,939	17,751	16,213	11,826	11,633	12,087	13,429	10,582	8,861
Critical (15%)	9,452	8,209	11,005	13,966	12,979	11,961	9,808	7,608	9,403	10,410	8,382	8,580

Alternative 4 H3 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-723	-6,029	-7,559	-9,250	-9,047	-11,010	-12,493	-8,993	-2,383	-713	-3,256	-8,079
20%	-1,649	-5,379	-6,399	-10,512	-10,730	-12,429	-13,481	-5,968	-1,741	-1,682	-4,422	-6,840
30%	-3,176	-5,686	-3,333	-9,353	-10,126	-12,632	-6,604	-2,589	-1,646	-3,976	-5,230	-7,547
40%	-3,785	-4,874	-1,475	-6,401	-8,187	-10,898	-6,194	-344	-1,222	-4,774	-5,641	-9,046
50%	-3,247	-4,908	-1,065	-3,529	-11,329	-7,718	-2,817	-189	-561	-5,297	-6,078	-1,182
60%	-2,431	-3,483	-1,037	-3,659	-5,722	-5,369	-466	-350	-1,158	-5,564	-5,802	-1,292
70%	-1,541	-1,529	-925	-2,875	-3,081	-3,833	-684	-489	-916	-5,867	-5,085	-1,317
80%	-961	-440	-25	-838	-1,617	-2,272	-897	-267	-1,016	-5,565	-4,879	-321
90%	-333	-423	77	-706	-1,097	-967	-274	-671	-1,589	-3,474	-1,204	-227
Long Term												
Full Simulation Period[a]	-1,945	-3,427	-2,629	-5,374	-6,351	-7,049	-4,760	-2,342	-1,756	-3,647	-4,158	-3,888
Water Year Types[b]												
Wet (32%)	-3,112	-4,663	-5,766	-8,994	-9,915	-10,694	-9,205	-5,848	-3,533	-3,252	-5,636	-7,385
Above Normal (15%)	-1,572	-4,394	-2,280	-7,438	-8,390	-9,926	-7,035	-2,935	-2,010	-2,436	-5,316	-7,796
Below Normal (17%)	-1,927	-3,570	-1,537	-4,221	-6,155	-6,205	-2,893	-261	-651	-3,247	-3,958	-3,791
Dry (22%)	-1,476	-2,448	-1,182	-2,512	-3,356	-4,437	-1,078	206	-568	-5,528	-3,769	241
Critical (15%)	-512	-1,086	372	-1,107	-1,311	-1,176	-557	-403	-719	-3,357	-614	1,287

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-21-20. Sacramento River d/s of North Delta Diversion, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,435	20,962	48,944	66,024	70,601	64,123	49,287	33,970	18,605	24,301	17,873	28,941
20%	13,466	17,873	34,439	58,570	65,193	55,046	37,041	22,009	16,346	23,779	17,155	26,906
30%	13,050	16,500	22,195	41,078	51,329	43,737	22,974	15,877	15,446	23,144	16,643	23,495
40%	12,844	15,147	18,423	27,661	44,444	32,669	20,071	12,621	14,435	22,326	16,248	21,825
50%	12,222	13,967	15,978	23,077	34,352	25,226	15,091	11,917	13,529	21,328	15,814	12,816
60%	11,262	11,948	14,363	20,433	24,240	21,431	12,186	11,232	13,181	20,083	15,297	10,709
70%	10,150	9,878	13,693	17,598	18,831	18,863	11,465	10,915	12,650	18,123	14,198	9,131
80%	9,031	8,450	11,957	13,731	15,981	15,235	11,202	9,724	11,864	15,988	13,056	8,010
90%	7,567	7,451	8,981	12,260	12,487	11,683	10,128	8,700	10,906	12,214	9,128	7,614
Long Term												
Full Simulation Period[a]	11,776	14,647	22,784	32,595	38,087	33,134	22,826	16,295	14,880	19,797	14,891	16,763
Water Year Types[b]												
Wet (32%)	13,277	19,285	37,022	52,878	59,847	50,993	37,543	24,500	18,603	21,425	16,064	27,212
Above Normal (15%)	11,864	15,925	22,629	40,484	47,786	45,088	24,931	18,657	16,051	22,727	17,491	21,006
Below Normal (17%)	12,124	13,037	16,692	22,653	31,592	22,915	17,128	12,394	13,898	20,513	16,232	12,306
Dry (22%)	10,487	11,914	15,159	17,451	21,107	20,650	12,904	11,427	12,656	18,957	14,351	8,620
Critical (15%)	9,964	9,295	10,632	15,073	14,291	13,137	10,365	8,011	10,123	13,767	8,996	7,292

Alternative 4 H4 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,675	14,951	41,651	58,426	61,583	53,119	39,799	27,559	15,124	21,505	14,916	21,015
20%	11,344	12,872	27,401	46,374	53,856	42,567	28,012	19,751	13,354	18,744	13,329	20,154
30%	9,516	10,628	19,747	31,876	41,436	30,411	24,727	16,897	12,459	17,542	12,745	15,417
40%	9,027	10,260	16,905	21,177	36,599	24,244	21,123	14,248	11,889	16,303	11,971	13,257
50%	8,914	9,308	14,676	19,245	23,783	20,320	17,461	12,208	11,372	15,083	10,211	12,283
60%	8,795	8,378	13,102	16,203	18,675	18,339	12,728	11,431	10,855	13,183	9,291	10,276
70%	8,504	8,247	12,399	13,902	16,360	16,075	10,916	10,639	10,349	11,350	8,764	8,793
80%	8,046	7,915	9,846	12,684	14,073	13,528	10,334	9,758	9,889	9,797	8,234	7,825
90%	7,187	7,000	8,438	11,264	10,936	10,765	9,695	8,041	9,010	8,578	8,021	7,625
Long Term												
Full Simulation Period[a]	9,712	11,231	19,981	26,882	31,840	27,105	20,865	15,481	12,072	14,838	10,965	13,221
Water Year Types[b]												
Wet (32%)	10,117	14,557	31,752	43,431	49,815	41,904	32,440	22,238	13,371	16,275	10,041	19,710
Above Normal (15%)	10,625	11,685	19,748	32,999	39,450	35,541	23,219	18,057	11,894	16,332	11,215	13,146
Below Normal (17%)	9,340	9,586	14,902	18,786	26,096	18,484	18,304	12,955	13,020	16,143	12,675	8,982
Dry (22%)	8,880	9,345	13,537	14,662	17,765	16,956	12,022	11,240	11,528	13,557	12,117	9,937
Critical (15%)	9,606	8,320	10,300	12,682	13,098	11,884	9,686	7,575	9,151	10,630	8,994	9,106

Alternative 4 H4 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-759	-6,011	-7,294	-7,598	-9,018	-11,003	-9,488	-6,411	-3,481	-2,796	-2,956	-7,926
20%	-2,122	-5,001	-7,038	-12,195	-11,338	-12,478	-9,030	-2,259	-2,992	-5,035	-3,826	-6,752
30%	-3,534	-5,872	-2,448	-9,202	-9,893	-13,326	1,753	1,019	-2,988	-5,602	-3,898	-8,078
40%	-3,816	-4,887	-1,519	-6,484	-7,846	-8,425	1,052	1,626	-2,547	-6,023	-4,277	-8,567
50%	-3,308	-4,659	-1,302	-3,832	-10,570	-4,906	2,370	291	-2,156	-6,244	-5,603	-534
60%	-2,467	-3,570	-1,261	-4,229	-5,565	-3,091	542	199	-2,326	-6,900	-6,006	-433
70%	-1,647	-1,631	-1,294	-3,696	-2,471	-2,788	-549	-276	-2,301	-6,773	-5,435	-338
80%	-984	-535	-2,111	-1,048	-1,908	-1,707	-868	33	-1,975	-6,191	-4,821	-185
90%	-380	-452	-543	-996	-1,551	-918	-433	-660	-1,896	-3,636	-1,106	11
Long Term												
Full Simulation Period[a]	-2,064	-3,415	-2,803	-5,713	-6,247	-6,030	-1,961	-814	-2,807	-4,959	-3,926	-3,542
Water Year Types[b]												
Wet (32%)	-3,160	-4,728	-5,270	-9,446	-10,032	-9,089	-5,103	-2,263	-5,233	-5,150	-6,023	-7,502
Above Normal (15%)	-1,239	-4,240	-2,881	-7,486	-8,336	-9,547	-1,712	-599	-4,158	-6,396	-6,276	-7,860
Below Normal (17%)	-2,784	-3,450	-1,791	-3,866	-5,497	-4,431	1,176	561	-878	-4,369	-3,557	-3,324
Dry (22%)	-1,606	-2,569	-1,621	-2,789	-3,342	-3,694	-882	-187	-1,128	-5,400	-2,234	1,316
Critical (15%)	-358	-975	-332	-2,391	-1,193	-1,253	-679	-436	-972	-3,136	-2	1,814

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-21-21. Sacramento River d/s of North Delta Diversion, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,435	20,962	48,944	66,024	70,601	64,123	49,287	33,970	18,605	24,301	17,873	28,941
20%	13,466	17,873	34,439	58,570	65,193	55,046	37,041	22,009	16,346	23,779	17,155	26,906
30%	13,050	16,500	22,195	41,078	51,329	43,737	22,974	15,877	15,446	23,144	16,643	23,495
40%	12,844	15,147	18,423	27,661	44,444	32,669	20,071	12,621	14,435	22,326	16,248	21,825
50%	12,222	13,967	15,978	23,077	34,352	25,226	15,091	11,917	13,529	21,328	15,814	12,816
60%	11,262	11,948	14,363	20,433	24,240	21,431	12,186	11,232	13,181	20,083	15,297	10,709
70%	10,150	9,878	13,693	17,598	18,831	18,863	11,465	10,915	12,650	18,123	14,198	9,131
80%	9,031	8,450	11,957	13,731	15,981	15,235	11,202	9,724	11,864	15,988	13,056	8,010
90%	7,567	7,451	8,981	12,260	12,487	11,683	10,128	8,700	10,906	12,214	9,128	7,614
Long Term												
Full Simulation Period[a]	11,776	14,647	22,784	32,595	38,087	33,134	22,826	16,295	14,880	19,797	14,891	16,763
Water Year Types[b]												
Wet (32%)	13,277	19,285	37,022	52,878	59,847	50,993	37,543	24,500	18,603	21,425	16,064	27,212
Above Normal (15%)	11,864	15,925	22,629	40,484	47,786	45,088	24,931	18,657	16,051	22,727	17,491	21,006
Below Normal (17%)	12,124	13,037	16,692	22,653	31,592	22,915	17,128	12,394	13,898	20,513	16,232	12,306
Dry (22%)	10,487	11,914	15,159	17,451	21,107	20,650	12,904	11,427	12,656	18,957	14,351	8,620
Critical (15%)	9,964	9,295	10,632	15,073	14,291	13,137	10,365	8,011	10,123	13,767	8,996	7,292

Alternative 5 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	16,096	17,406	39,873	62,960	67,480	59,117	42,723	30,864	18,491	24,301	16,381	22,540
20%	13,287	13,890	29,249	53,911	60,676	48,660	29,206	19,199	16,323	22,556	14,533	21,570
30%	11,518	12,372	20,113	36,365	46,073	37,668	19,715	14,768	15,276	21,054	13,494	18,752
40%	10,724	11,068	17,123	22,761	39,472	26,479	17,051	12,297	14,375	20,497	12,320	13,603
50%	10,242	10,313	15,248	20,256	27,428	21,042	13,274	11,772	13,824	19,439	11,102	9,017
60%	9,300	9,452	14,160	17,893	21,115	18,046	12,295	11,019	12,938	17,053	10,075	7,786
70%	9,011	8,423	13,763	15,273	17,331	16,440	11,483	10,571	12,317	15,203	8,514	7,749
80%	8,691	8,163	12,311	13,327	14,873	14,183	10,614	9,408	11,692	12,622	8,052	7,707
90%	7,278	7,181	9,311	11,961	12,195	11,333	10,164	8,245	10,529	9,127	7,725	7,456
Long Term												
Full Simulation Period[a]	11,076	12,189	21,211	29,782	35,046	29,549	20,392	15,304	14,565	17,792	11,533	13,412
Water Year Types[b]												
Wet (32%)	11,391	16,257	33,322	49,145	55,715	45,934	32,697	22,146	18,047	19,907	12,305	21,999
Above Normal (15%)	11,581	12,551	21,261	36,016	43,788	40,636	21,217	17,335	15,515	20,932	14,430	14,678
Below Normal (17%)	12,374	10,073	15,769	20,282	27,821	19,149	15,607	11,993	14,335	19,596	13,100	8,230
Dry (22%)	9,765	10,387	14,862	15,591	19,346	17,944	12,406	11,775	12,430	15,476	9,655	7,705
Critical (15%)	10,341	8,183	10,796	13,962	13,500	12,499	10,469	7,608	9,541	11,440	7,954	8,144

Alternative 5 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,662	-3,556	-9,072	-3,063	-3,120	-5,006	-6,564	-3,106	-114	0	-1,492	-6,401
20%	-180	-3,982	-5,190	-4,658	-4,517	-6,385	-7,835	-2,810	-23	-1,223	-2,622	-5,336
30%	-1,531	-4,127	-2,082	-4,713	-5,255	-6,069	-3,258	-1,110	-170	-2,090	-3,149	-4,743
40%	-2,120	-4,079	-1,300	-4,900	-4,972	-6,190	-3,020	-324	-61	-1,829	-3,928	-8,221
50%	-1,980	-3,654	-730	-2,821	-6,925	-4,183	-1,817	-145	295	-1,888	-4,713	-3,800
60%	-1,962	-2,496	-203	-2,540	-3,125	-3,385	109	-212	-243	-3,030	-5,223	-2,923
70%	-1,140	-1,455	70	-2,325	-1,500	-2,423	17	-344	-333	-2,920	-5,684	-1,383
80%	-340	-287	354	-405	-1,108	-1,051	-589	-316	-172	-3,366	-5,003	-303
90%	-289	-270	330	-299	-292	-350	36	-455	-377	-3,087	-1,403	-158
Long Term												
Full Simulation Period[a]	-700	-2,458	-1,572	-2,813	-3,041	-3,586	-2,434	-991	-315	-2,005	-3,358	-3,351
Water Year Types[b]												
Wet (32%)	-1,886	-3,028	-3,701	-3,733	-4,132	-5,059	-4,846	-2,355	-556	-1,519	-3,758	-5,214
Above Normal (15%)	-283	-3,374	-1,368	-4,468	-3,998	-4,453	-3,714	-1,321	-537	-1,795	-3,061	-6,328
Below Normal (17%)	250	-2,963	-923	-2,370	-3,771	-3,765	-1,521	-401	438	-917	-3,132	-4,076
Dry (22%)	-722	-1,527	-297	-1,859	-1,761	-2,706	-498	349	-226	-3,481	-4,696	-915
Critical (15%)	377	-1,113	164	-1,111	-790	-638	104	-403	-582	-2,327	-1,042	852

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-21-22. Sacramento River d/s of North Delta Diversion, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,435	20,962	48,944	66,024	70,601	64,123	49,287	33,970	18,605	24,301	17,873	28,941
20%	13,466	17,873	34,439	58,570	65,193	55,046	37,041	22,009	16,346	23,779	17,155	26,906
30%	13,050	16,500	22,195	41,078	51,329	43,737	22,974	15,877	15,446	23,144	16,643	23,495
40%	12,844	15,147	18,423	27,661	44,444	32,669	20,071	12,621	14,435	22,326	16,248	21,825
50%	12,222	13,967	15,978	23,077	34,352	25,226	15,091	11,917	13,529	21,328	15,814	12,816
60%	11,262	11,948	14,363	20,433	24,240	21,431	12,186	11,232	13,181	20,083	15,297	10,709
70%	10,150	9,878	13,693	17,598	18,831	18,863	11,465	10,915	12,650	18,123	14,198	9,131
80%	9,031	8,450	11,957	13,731	15,981	15,235	11,202	9,724	11,864	15,988	13,056	8,010
90%	7,567	7,451	8,981	12,260	12,487	11,683	10,128	8,700	10,906	12,214	9,128	7,614
Long Term												
Full Simulation Period[a]	11,776	14,647	22,784	32,595	38,087	33,134	22,826	16,295	14,880	19,797	14,891	16,763
Water Year Types[b]												
Wet (32%)	13,277	19,285	37,022	52,878	59,847	50,993	37,543	24,500	18,603	21,425	16,064	27,212
Above Normal (15%)	11,864	15,925	22,629	40,484	47,786	45,088	24,931	18,657	16,051	22,727	17,491	21,006
Below Normal (17%)	12,124	13,037	16,692	22,653	31,592	22,915	17,128	12,394	13,898	20,513	16,232	12,306
Dry (22%)	10,487	11,914	15,159	17,451	21,107	20,650	12,904	11,427	12,656	18,957	14,351	8,620
Critical (15%)	9,964	9,295	10,632	15,073	14,291	13,137	10,365	8,011	10,123	13,767	8,996	7,292

Alternative 6A,6B,6C (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	10,114	14,440	38,024	51,444	56,905	50,042	35,416	20,523	13,058	12,633	8,222	17,647
20%	9,508	12,431	27,153	43,323	48,480	38,834	21,053	14,183	11,829	10,715	8,115	16,241
30%	8,797	10,606	19,180	29,503	36,543	30,643	15,856	12,190	11,312	9,790	8,055	12,044
40%	7,752	9,632	16,738	20,493	31,905	19,305	13,051	10,613	10,853	8,936	8,008	9,675
50%	7,379	8,220	14,533	19,001	21,342	17,091	12,012	10,285	10,502	8,750	7,884	7,722
60%	7,110	7,976	12,783	16,583	18,237	15,697	10,819	9,866	10,261	8,495	7,794	7,548
70%	6,930	7,659	10,950	13,872	16,194	14,577	10,155	9,275	10,003	8,228	7,656	7,396
80%	6,842	7,241	9,384	12,672	14,053	12,578	9,573	8,502	9,376	8,123	7,589	7,219
90%	6,687	6,842	8,114	10,991	11,401	10,180	8,608	7,246	8,239	8,024	7,511	7,097
Long Term												
Full Simulation Period[a]	8,005	10,610	19,310	25,550	29,488	24,745	16,852	12,592	11,095	9,493	7,833	10,528
Water Year Types[b]												
Wet (32%)	8,932	13,820	30,748	40,766	45,420	38,019	26,595	17,319	12,574	10,821	7,958	16,245
Above Normal (15%)	7,628	11,310	19,124	31,058	35,943	32,872	16,544	14,270	11,144	10,512	8,050	10,687
Below Normal (17%)	8,366	8,993	14,382	17,958	23,861	15,850	13,066	10,720	11,376	8,811	7,844	7,482
Dry (22%)	7,297	8,725	13,199	14,651	17,172	16,122	11,066	9,892	10,314	8,302	7,776	7,397
Critical (15%)	7,014	7,666	9,627	12,282	13,552	11,173	9,147	6,908	8,686	8,181	7,417	6,233

Alternative 6A,6B,6C (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-4,321	-6,522	-10,920	-14,579	-13,696	-14,081	-13,871	-13,446	-5,547	-11,668	-9,651	-11,294
20%	-3,959	-5,442	-7,287	-15,247	-16,713	-16,212	-15,988	-7,827	-4,517	-13,063	-9,040	-10,665
30%	-4,252	-5,894	-3,015	-11,575	-14,786	-13,094	-7,118	-3,687	-4,134	-13,353	-8,589	-11,451
40%	-5,092	-5,515	-1,685	-7,168	-12,539	-13,365	-7,020	-2,008	-3,582	-13,390	-8,240	-12,150
50%	-4,843	-5,746	-1,446	-4,077	-13,011	-8,135	-3,079	-1,632	-3,027	-12,577	-7,930	-5,094
60%	-4,152	-3,972	-1,580	-3,850	-6,003	-5,734	-1,367	-1,366	-2,919	-11,588	-7,503	-3,161
70%	-3,220	-2,218	-2,743	-3,726	-2,636	-4,286	-1,311	-1,640	-2,646	-9,895	-6,543	-1,735
80%	-2,189	-1,209	-2,572	-1,059	-1,927	-2,657	-1,630	-1,222	-2,487	-7,865	-5,467	-790
90%	-879	-609	-867	-1,270	-1,085	-1,503	-1,520	-1,454	-2,667	-4,190	-1,617	-517
Long Term												
Full Simulation Period[a]	-3,771	-4,037	-3,474	-7,044	-8,599	-8,389	-5,974	-3,703	-3,785	-10,304	-7,058	-6,235
Water Year Types[b]												
Wet (32%)	-4,345	-5,465	-6,274	-12,111	-14,427	-12,974	-10,949	-7,182	-6,029	-10,604	-8,106	-10,967
Above Normal (15%)	-4,236	-4,615	-3,504	-9,427	-11,843	-12,217	-8,387	-4,387	-4,907	-12,216	-9,441	-10,319
Below Normal (17%)	-3,758	-4,043	-2,310	-4,695	-7,731	-7,064	-4,062	-1,674	-2,521	-11,701	-8,388	-4,824
Dry (22%)	-3,190	-3,189	-1,960	-2,800	-3,935	-4,528	-1,837	-1,535	-2,342	-10,655	-6,575	-1,223
Critical (15%)	-2,951	-1,630	-1,005	-2,791	-739	-1,964	-1,218	-1,103	-1,437	-5,586	-1,580	-1,059

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-21-23. Sacramento River d/s of North Delta Diversion, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,435	20,962	48,944	66,024	70,601	64,123	49,287	33,970	18,605	24,301	17,873	28,941
20%	13,466	17,873	34,439	58,570	65,193	55,046	37,041	22,009	16,346	23,779	17,155	26,906
30%	13,050	16,500	22,195	41,078	51,329	43,737	22,974	15,877	15,446	23,144	16,643	23,495
40%	12,844	15,147	18,423	27,661	44,444	32,669	20,071	12,621	14,435	22,326	16,248	21,825
50%	12,222	13,967	15,978	23,077	34,352	25,226	15,091	11,917	13,529	21,328	15,814	12,816
60%	11,262	11,948	14,363	20,433	24,240	21,431	12,186	11,232	13,181	20,083	15,297	10,709
70%	10,150	9,878	13,693	17,598	18,831	18,863	11,465	10,915	12,650	18,123	14,198	9,131
80%	9,031	8,450	11,957	13,731	15,981	15,235	11,202	9,724	11,864	15,988	13,056	8,010
90%	7,567	7,451	8,981	12,260	12,487	11,683	10,128	8,700	10,906	12,214	9,128	7,614
Long Term												
Full Simulation Period[a]	11,776	14,647	22,784	32,595	38,087	33,134	22,826	16,295	14,880	19,797	14,891	16,763
Water Year Types[b]												
Wet (32%)	13,277	19,285	37,022	52,878	59,847	50,993	37,543	24,500	18,603	21,425	16,064	27,212
Above Normal (15%)	11,864	15,925	22,629	40,484	47,786	45,088	24,931	18,657	16,051	22,727	17,491	21,006
Below Normal (17%)	12,124	13,037	16,692	22,653	31,592	22,915	17,128	12,394	13,898	20,513	16,232	12,306
Dry (22%)	10,487	11,914	15,159	17,451	21,107	20,650	12,904	11,427	12,656	18,957	14,351	8,620
Critical (15%)	9,964	9,295	10,632	15,073	14,291	13,137	10,365	8,011	10,123	13,767	8,996	7,292

Alternative 7 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	10,196	15,016	39,142	56,658	61,636	52,681	39,182	25,125	14,252	24,101	16,243	21,314
20%	9,264	12,918	26,206	47,490	53,666	41,404	25,626	16,097	12,682	22,792	14,798	20,580
30%	8,929	10,780	18,863	31,688	40,347	30,203	18,421	13,208	11,926	21,612	14,028	15,434
40%	8,529	10,017	16,787	20,714	35,202	21,426	14,514	10,652	11,582	19,445	12,326	12,490
50%	8,157	8,399	14,579	19,266	22,714	18,677	12,129	10,422	11,348	17,559	11,822	10,730
60%	7,827	8,203	12,990	17,011	18,664	17,033	11,046	9,933	11,060	16,388	11,385	8,897
70%	7,328	7,911	11,186	14,028	16,761	15,739	10,224	9,301	10,869	13,710	10,881	7,801
80%	7,053	7,617	9,502	12,682	14,822	13,306	9,732	8,642	10,785	12,152	10,565	7,653
90%	6,888	6,893	8,354	11,161	11,530	10,339	8,689	7,395	10,620	11,006	10,477	7,414
Long Term												
Full Simulation Period[a]	8,495	11,033	19,558	27,017	31,710	26,109	18,164	13,330	12,280	17,733	12,847	12,754
Water Year Types[b]												
Wet (32%)	9,252	14,617	31,205	44,047	49,513	39,986	29,218	18,659	13,919	19,462	12,756	20,019
Above Normal (15%)	8,774	11,767	19,328	33,074	39,436	34,531	18,265	15,353	12,391	21,352	13,856	13,212
Below Normal (17%)	8,404	9,192	14,563	18,521	25,509	17,736	13,846	10,832	12,154	19,692	15,330	8,913
Dry (22%)	7,840	8,936	13,237	14,692	17,730	16,744	11,395	9,910	11,054	15,601	11,934	8,397
Critical (15%)	7,662	7,824	9,864	12,460	13,611	11,437	9,308	7,810	10,605	11,279	10,505	7,570

Alternative 7 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-4,239	-5,945	-9,802	-9,366	-8,965	-11,442	-10,105	-8,844	-4,353	-200	-1,630	-7,627
20%	-4,203	-4,955	-8,233	-11,080	-11,527	-13,641	-11,416	-5,913	-3,665	-987	-2,357	-6,327
30%	-4,121	-5,719	-3,331	-9,390	-10,982	-13,534	-4,552	-2,669	-3,520	-1,531	-2,616	-8,061
40%	-4,314	-5,130	-1,636	-6,947	-9,243	-11,244	-5,557	-1,969	-2,853	-2,882	-3,922	-9,334
50%	-4,065	-5,568	-1,399	-3,811	-11,639	-6,548	-2,961	-1,495	-2,181	-3,769	-3,992	-2,086
60%	-3,435	-3,745	-1,373	-3,422	-5,576	-4,398	-1,140	-1,299	-2,120	-3,695	-3,912	-1,812
70%	-2,822	-1,966	-2,507	-3,570	-2,070	-3,124	-1,242	-1,615	-1,781	-4,413	-3,317	-1,330
80%	-1,977	-833	-2,455	-1,050	-1,159	-1,929	-1,470	-1,083	-1,079	-3,836	-2,490	-356
90%	-678	-559	-628	-1,099	-956	-1,344	-1,438	-1,305	-286	-1,209	1,349	-199
Long Term												
Full Simulation Period[a]	-3,281	-3,614	-3,225	-5,578	-6,378	-7,025	-4,662	-2,965	-2,600	-2,065	-2,045	-4,009
Water Year Types[b]												
Wet (32%)	-4,025	-4,668	-5,817	-8,830	-10,333	-11,007	-8,325	-5,842	-4,685	-1,963	-3,308	-7,193
Above Normal (15%)	-3,090	-4,158	-3,301	-7,410	-8,350	-10,557	-6,667	-3,304	-3,661	-1,375	-3,634	-7,794
Below Normal (17%)	-3,720	-3,845	-2,129	-4,132	-6,083	-5,178	-3,283	-1,563	-1,743	-820	-902	-3,393
Dry (22%)	-2,646	-2,978	-1,922	-2,759	-3,377	-3,906	-1,509	-1,517	-1,602	-3,356	-2,417	-223
Critical (15%)	-2,302	-1,472	-768	-2,613	-679	-1,700	-1,057	-201	482	-2,488	1,509	278

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-21-24. Sacramento River d/s of North Delta Diversion, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,435	20,962	48,944	66,024	70,601	64,123	49,287	33,970	18,605	24,301	17,873	28,941
20%	13,466	17,873	34,439	58,570	65,193	55,046	37,041	22,009	16,346	23,779	17,155	26,906
30%	13,050	16,500	22,195	41,078	51,329	43,737	22,974	15,877	15,446	23,144	16,643	23,495
40%	12,844	15,147	18,423	27,661	44,444	32,669	20,071	12,621	14,435	22,326	16,248	21,825
50%	12,222	13,967	15,978	23,077	34,352	25,226	15,091	11,917	13,529	21,328	15,814	12,816
60%	11,262	11,948	14,363	20,433	24,240	21,431	12,186	11,232	13,181	20,083	15,297	10,709
70%	10,150	9,878	13,693	17,598	18,831	18,863	11,465	10,915	12,650	18,123	14,198	9,131
80%	9,031	8,450	11,957	13,731	15,981	15,235	11,202	9,724	11,864	15,988	13,056	8,010
90%	7,567	7,451	8,981	12,260	12,487	11,683	10,128	8,700	10,906	12,214	9,128	7,614
Long Term												
Full Simulation Period[a]	11,776	14,647	22,784	32,595	38,087	33,134	22,826	16,295	14,880	19,797	14,891	16,763
Water Year Types[b]												
Wet (32%)	13,277	19,285	37,022	52,878	59,847	50,993	37,543	24,500	18,603	21,425	16,064	27,212
Above Normal (15%)	11,864	15,925	22,629	40,484	47,786	45,088	24,931	18,657	16,051	22,727	17,491	21,006
Below Normal (17%)	12,124	13,037	16,692	22,653	31,592	22,915	17,128	12,394	13,898	20,513	16,232	12,306
Dry (22%)	10,487	11,914	15,159	17,451	21,107	20,650	12,904	11,427	12,656	18,957	14,351	8,620
Critical (15%)	9,964	9,295	10,632	15,073	14,291	13,137	10,365	8,011	10,123	13,767	8,996	7,292

Alternative 8 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	10,000	14,871	41,752	58,590	61,401	55,242	43,480	27,822	15,798	13,097	10,894	21,007
20%	8,917	12,594	27,273	46,716	54,307	41,113	30,578	19,923	13,125	12,535	10,862	20,118
30%	8,485	10,754	19,384	33,657	43,102	31,734	22,240	17,646	11,608	12,039	10,816	15,340
40%	8,101	9,836	16,767	25,275	36,285	23,828	19,655	15,838	10,857	11,379	10,715	12,372
50%	7,755	8,467	14,273	21,017	27,260	21,080	18,044	14,420	10,768	11,305	10,530	7,839
60%	7,385	8,395	12,902	17,729	19,891	18,954	16,397	12,998	10,681	11,042	10,437	7,714
70%	6,928	8,322	10,854	14,955	18,277	17,618	14,780	11,350	10,623	10,912	10,320	7,485
80%	6,771	7,879	9,412	12,777	16,457	15,170	13,051	10,026	10,407	10,405	10,097	7,401
90%	5,620	6,977	7,870	10,829	11,922	13,180	11,286	8,076	9,863	9,968	8,748	7,233
Long Term												
Full Simulation Period[a]	8,014	11,062	19,491	28,220	33,054	27,833	22,323	16,588	12,194	11,456	10,258	12,075
Water Year Types[b]												
Wet (32%)	8,576	14,687	31,790	45,128	49,638	40,489	32,507	22,834	14,671	12,814	10,818	19,758
Above Normal (15%)	8,673	11,148	18,460	35,427	41,167	35,489	23,452	18,114	12,425	11,657	10,574	12,835
Below Normal (17%)	7,898	9,318	14,285	20,596	27,639	19,686	20,076	15,228	11,369	10,312	9,820	7,697
Dry (22%)	7,558	9,334	13,025	15,365	20,251	20,361	16,150	12,587	10,356	10,829	10,283	7,464
Critical (15%)	6,955	7,750	9,644	12,556	14,534	13,466	11,011	9,114	10,316	10,587	9,203	6,696

Alternative 8 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-4,435	-6,091	-7,193	-7,434	-9,200	-8,880	-5,808	-6,147	-2,807	-11,204	-6,979	-7,934
20%	-4,549	-5,279	-7,166	-11,853	-10,886	-13,933	-6,463	-2,086	-3,222	-11,244	-6,293	-6,788
30%	-4,564	-5,746	-2,811	-7,421	-8,226	-12,003	-734	1,768	-3,838	-11,105	-5,827	-8,155
40%	-4,743	-5,311	-1,657	-2,386	-8,160	-8,841	-416	3,217	-3,578	-10,947	-5,533	-9,453
50%	-4,467	-5,500	-1,705	-2,061	-7,092	-4,146	2,953	2,502	-2,761	-10,023	-5,284	-4,977
60%	-3,877	-3,553	-1,461	-2,703	-4,349	-2,477	4,211	1,767	-2,500	-9,041	-4,861	-2,995
70%	-3,222	-1,555	-2,839	-2,643	-554	-1,245	3,314	435	-2,027	-7,211	-3,878	-1,646
80%	-2,260	-571	-2,545	-954	476	-65	1,849	302	-1,457	-5,583	-2,959	-608
90%	-1,946	-474	-1,112	-1,432	-564	1,497	1,158	-625	-1,043	-2,246	-380	-380
Long Term												
Full Simulation Period[a]	-3,762	-3,584	-3,293	-4,375	-5,033	-5,302	-503	292	-2,686	-8,342	-4,633	-4,688
Water Year Types[b]												
Wet (32%)	-4,701	-4,597	-5,232	-7,750	-10,209	-10,504	-5,037	-1,666	-3,933	-8,611	-5,246	-7,455
Above Normal (15%)	-3,191	-4,777	-4,168	-5,057	-6,619	-9,599	-1,479	-542	-3,626	-11,070	-6,917	-8,171
Below Normal (17%)	-4,226	-3,719	-2,407	-2,057	-3,953	-3,229	2,948	2,834	-2,529	-10,200	-6,412	-4,609
Dry (22%)	-2,929	-2,580	-2,134	-2,086	-856	-289	3,246	1,160	-2,300	-8,129	-4,068	-1,157
Critical (15%)	-3,010	-1,546	-988	-2,517	243	329	646	1,103	194	-3,180	206	-597

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-21-25. Sacramento River d/s of North Delta Diversion, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,435	20,962	48,944	66,024	70,601	64,123	49,287	33,970	18,605	24,301	17,873	28,941
20%	13,466	17,873	34,439	58,570	65,193	55,046	37,041	22,009	16,346	23,779	17,155	26,906
30%	13,050	16,500	22,195	41,078	51,329	43,737	22,974	15,877	15,446	23,144	16,643	23,495
40%	12,844	15,147	18,423	27,661	44,444	32,669	20,071	12,621	14,435	22,326	16,248	21,825
50%	12,222	13,967	15,978	23,077	34,352	25,226	15,091	11,917	13,529	21,328	15,814	12,816
60%	11,262	11,948	14,363	20,433	24,240	21,431	12,186	11,232	13,181	20,083	15,297	10,709
70%	10,150	9,878	13,693	17,598	18,831	18,863	11,465	10,915	12,650	18,123	14,198	9,131
80%	9,031	8,450	11,957	13,731	15,981	15,235	11,202	9,724	11,864	15,988	13,056	8,010
90%	7,567	7,451	8,981	12,260	12,487	11,683	10,128	8,700	10,906	12,214	9,128	7,614
Long Term												
Full Simulation Period[a]	11,776	14,647	22,784	32,595	38,087	33,134	22,826	16,295	14,880	19,797	14,891	16,763
Water Year Types[b]												
Wet (32%)	13,277	19,285	37,022	52,878	59,847	50,993	37,543	24,500	18,603	21,425	16,064	27,212
Above Normal (15%)	11,864	15,925	22,629	40,484	47,786	45,088	24,931	18,657	16,051	22,727	17,491	21,006
Below Normal (17%)	12,124	13,037	16,692	22,653	31,592	22,915	17,128	12,394	13,898	20,513	16,232	12,306
Dry (22%)	10,487	11,914	15,159	17,451	21,107	20,650	12,904	11,427	12,656	18,957	14,351	8,620
Critical (15%)	9,964	9,295	10,632	15,073	14,291	13,137	10,365	8,011	10,123	13,767	8,996	7,292

Alternative 9 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,875	21,280	46,850	66,066	70,409	62,166	45,740	33,733	17,834	24,544	17,186	30,722
20%	13,580	18,271	30,312	56,595	63,029	51,595	32,210	21,939	16,675	22,839	16,842	27,564
30%	12,675	16,700	20,958	38,932	49,123	39,341	22,671	17,424	15,261	21,462	16,577	23,501
40%	11,996	15,063	17,579	25,092	42,260	29,404	19,819	15,568	14,628	20,634	16,200	21,164
50%	10,965	14,162	15,372	21,556	30,909	23,794	15,879	14,281	13,850	19,023	15,770	13,203
60%	9,213	11,510	14,408	18,163	22,870	20,701	12,996	12,941	13,467	17,902	14,796	11,528
70%	8,767	10,032	13,487	14,760	18,525	18,207	12,046	11,770	12,844	16,705	13,639	8,855
80%	7,937	9,276	10,995	13,441	15,324	15,004	11,272	11,000	11,541	14,139	11,976	7,901
90%	7,080	7,910	9,390	11,763	11,726	11,410	10,595	8,230	10,526	12,136	9,730	7,575
Long Term												
Full Simulation Period[a]	10,958	14,812	22,051	31,080	36,857	31,560	22,096	17,459	14,837	18,754	14,571	17,021
Water Year Types[b]												
Wet (32%)	12,917	19,189	35,191	51,284	58,328	48,918	35,337	24,704	18,559	20,891	15,854	28,217
Above Normal (15%)	10,362	15,692	21,671	38,473	46,267	42,536	23,766	19,044	16,301	22,212	16,779	20,943
Below Normal (17%)	10,591	13,674	16,455	21,278	29,941	21,609	16,921	14,190	13,597	19,039	15,759	12,502
Dry (22%)	10,309	12,182	14,881	16,286	20,243	19,473	13,721	14,347	12,771	16,983	13,418	8,393
Critical (15%)	8,711	9,725	11,244	13,540	13,919	12,714	10,333	8,661	9,855	12,989	9,924	7,053

Alternative 9 (LLT) minus No Action Alternative (LLT)

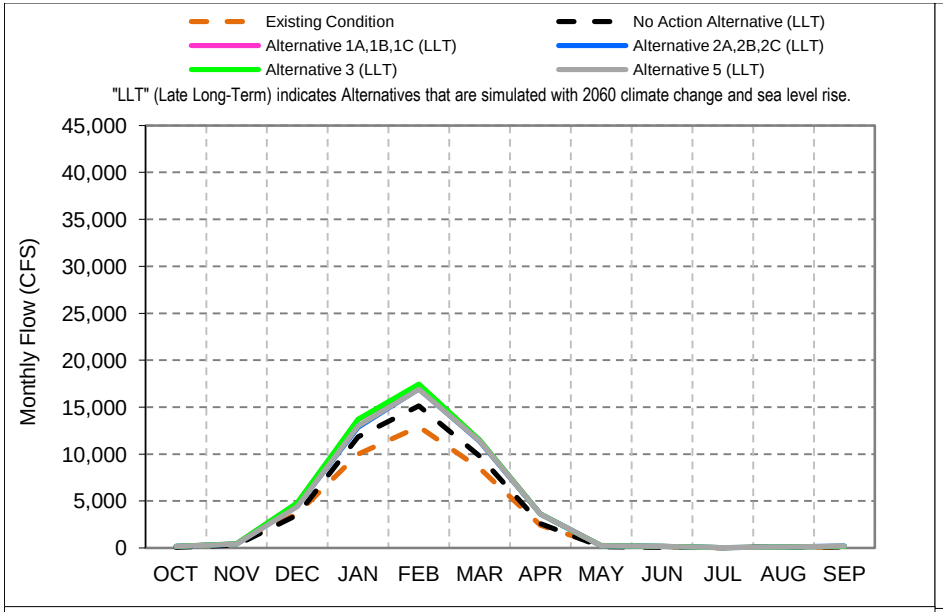
	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	440	318	**-2,095**	42	**-191**	**-1,957**	**-3,547**	**-237**	**-771**	242	**-687**	1,781
20%	113	398	**-4,127**	**-1,974**	**-2,164**	**-3,451**	**-4,831**	**-70**	328	**-940**	**-312**	658
30%	**-375**	200	**-1,237**	**-2,146**	**-2,206**	**-4,395**	**-302**	1,546	**-186**	**-1,681**	**-66**	6
40%	**-848**	**-84**	**-844**	**-2,569**	**-2,184**	**-3,265**	**-252**	2,947	192	**-1,693**	**-48**	**-661**
50%	**-1,257**	195	**-606**	**-1,521**	**-3,444**	**-1,432**	788	2,364	322	**-2,304**	**-44**	387
60%	**-2,050**	**-439**	45	**-2,270**	**-1,370**	**-729**	810	1,709	286	**-2,181**	**-502**	819
70%	**-1,383**	154	**-206**	**-2,838**	**-306**	**-656**	580	855	194	**-1,418**	**-559**	**-276**
80%	**-1,094**	826	**-962**	**-291**	**-657**	**-230**	69	1,275	**-323**	**-1,849**	**-1,080**	**-109**
90%	**-487**	459	409	**-497**	**-761**	**-273**	468	**-470**	**-380**	**-78**	603	**-38**
Long Term												
Full Simulation Period[a]	**-818**	166	**-733**	**-1,515**	**-1,230**	**-1,574**	**-731**	1,164	**-42**	**-1,044**	**-321**	258
Water Year Types[b]												
Wet (32%)	**-360**	**-96**	**-1,831**	**-1,594**	**-1,519**	**-2,075**	**-2,206**	204	**-44**	**-534**	**-210**	1,005
Above Normal (15%)	**-1,502**	**-233**	**-958**	**-2,012**	**-1,520**	**-2,552**	**-1,165**	387	250	**-516**	**-712**	**-63**
Below Normal (17%)	**-1,533**	637	**-237**	**-1,375**	**-1,651**	**-1,305**	**-207**	1,795	**-300**	**-1,473**	**-473**	195
Dry (22%)	**-177**	268	**-277**	**-1,165**	**-864**	**-1,177**	817	2,921	115	**-1,975**	**-933**	**-228**
Critical (15%)	**-1,254**	430	612	**-1,533**	**-372**	**-423**	**-32**	649	**-267**	**-778**	928	**-239**

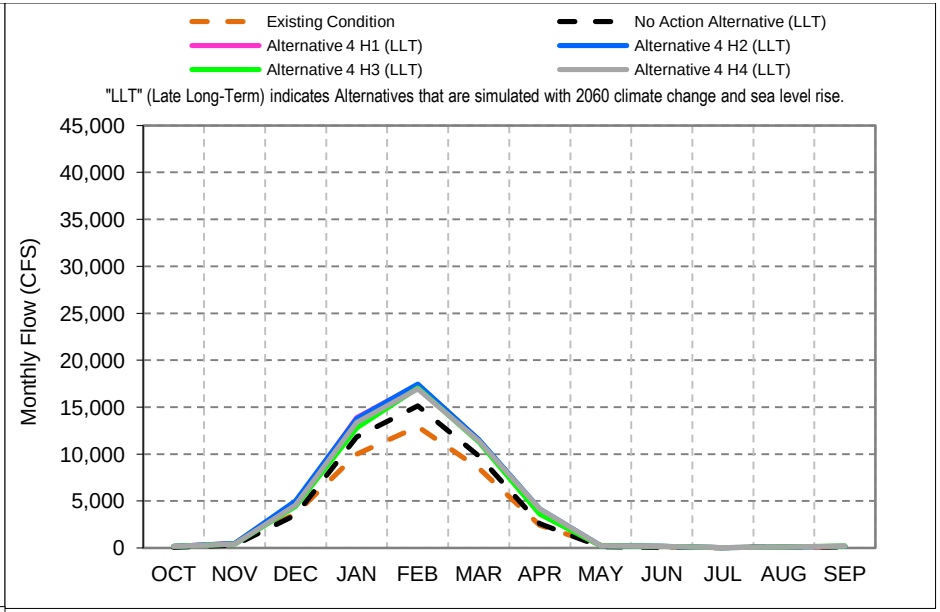
Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

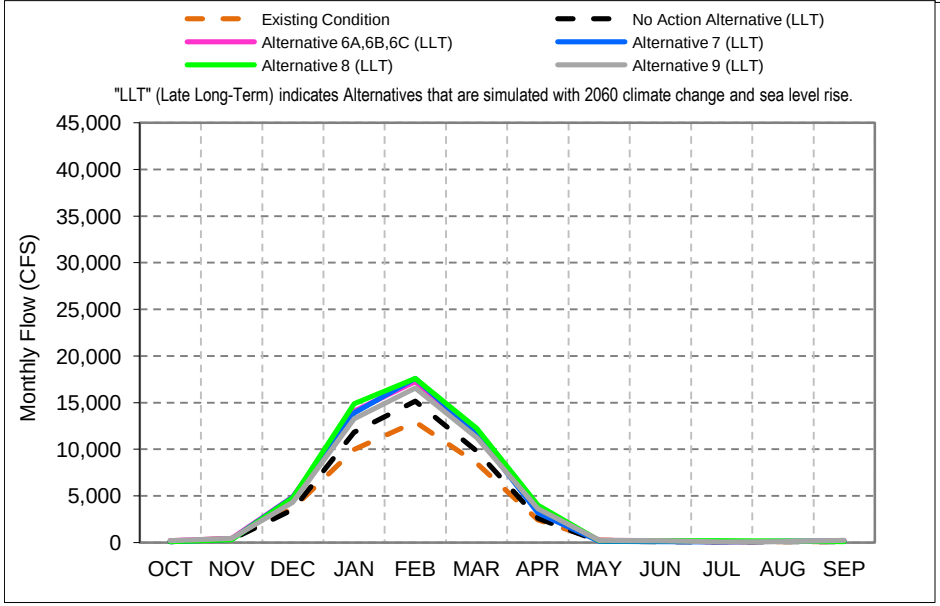
a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

C.22. Yolo Bypass Flow



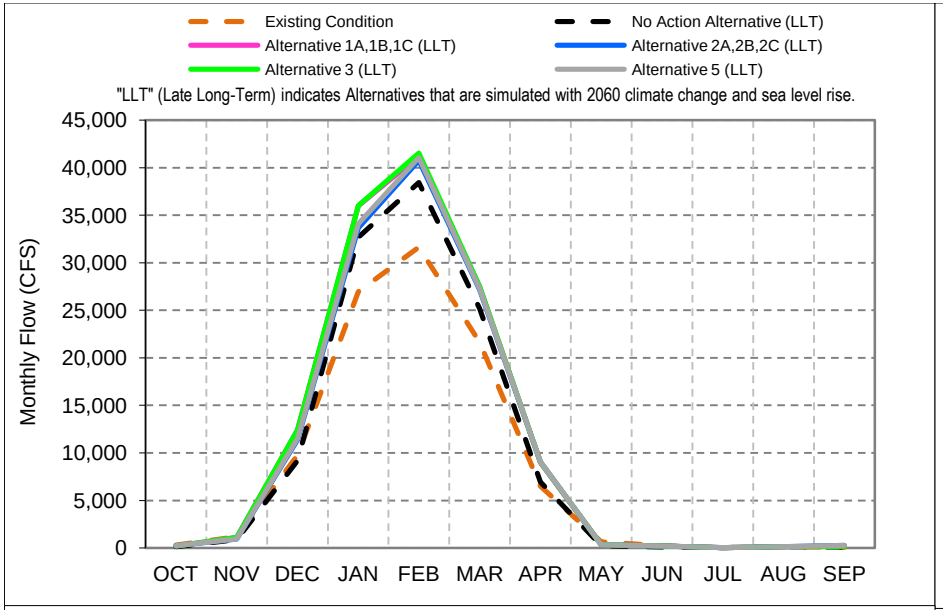


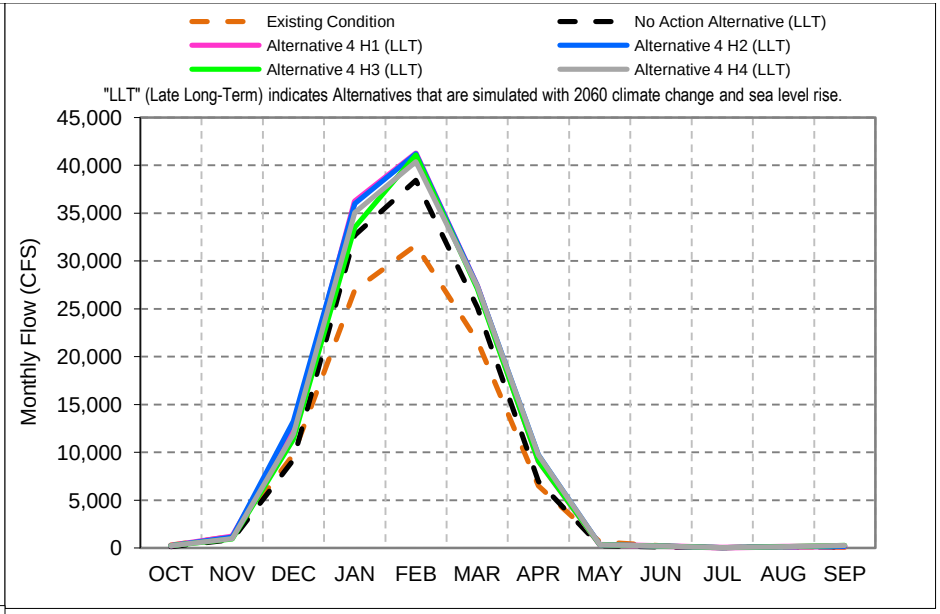


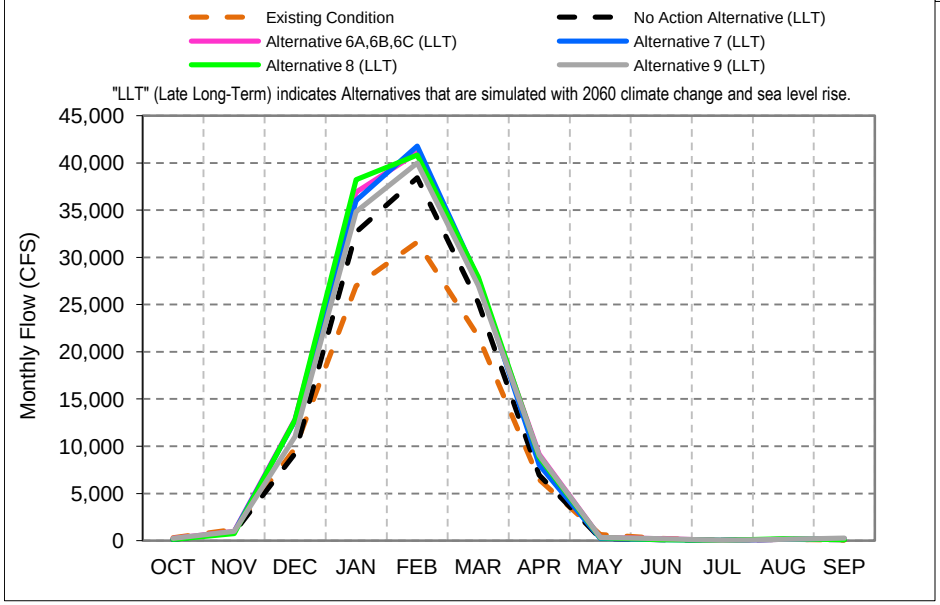
Alternative 4 Scenario Definitions:

H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

Figure C-22-1. Yolo Bypass, Long-Term Average Flow





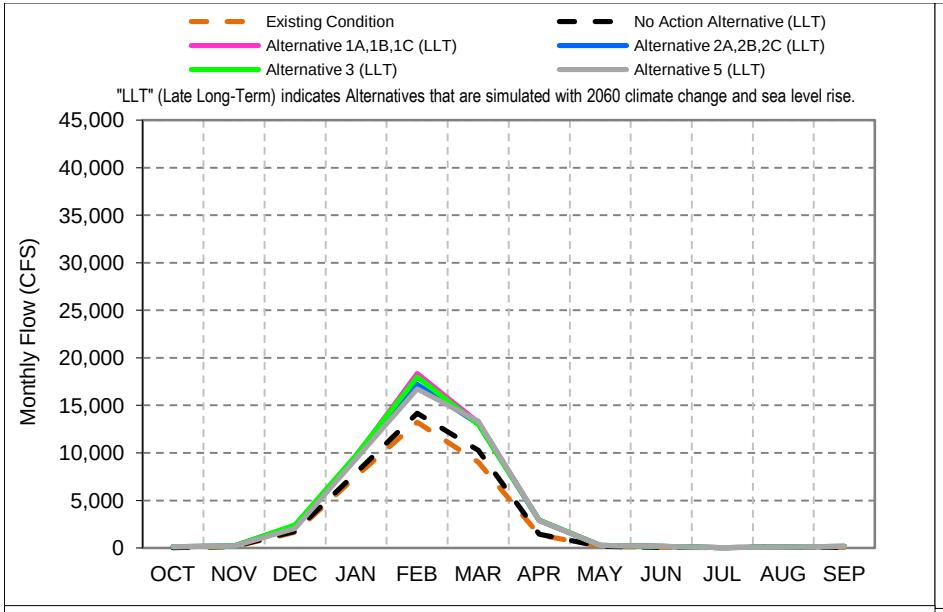


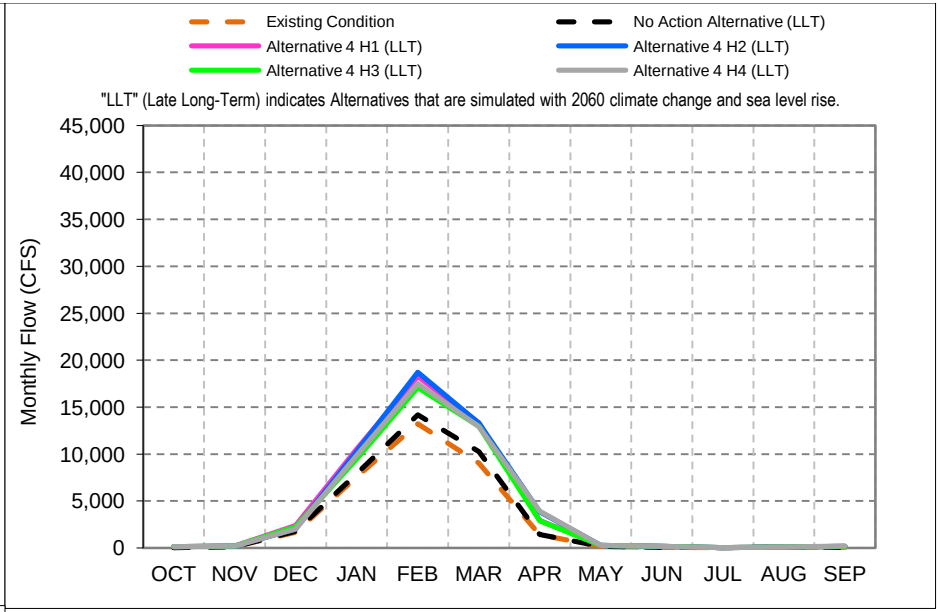
Alternative 4 Scenario Definitions:

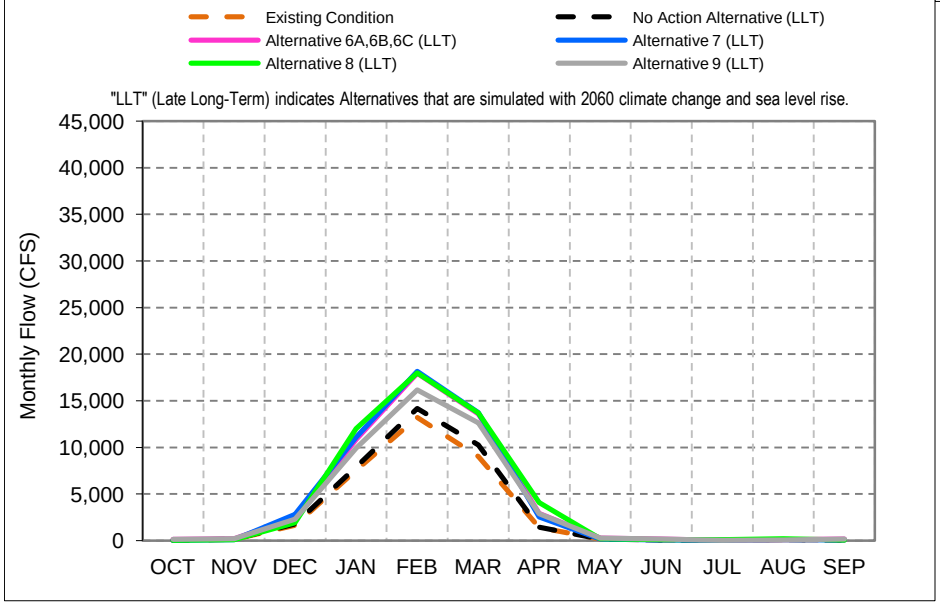
H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-22-2. Yolo Bypass, Wet Year* Average Flow





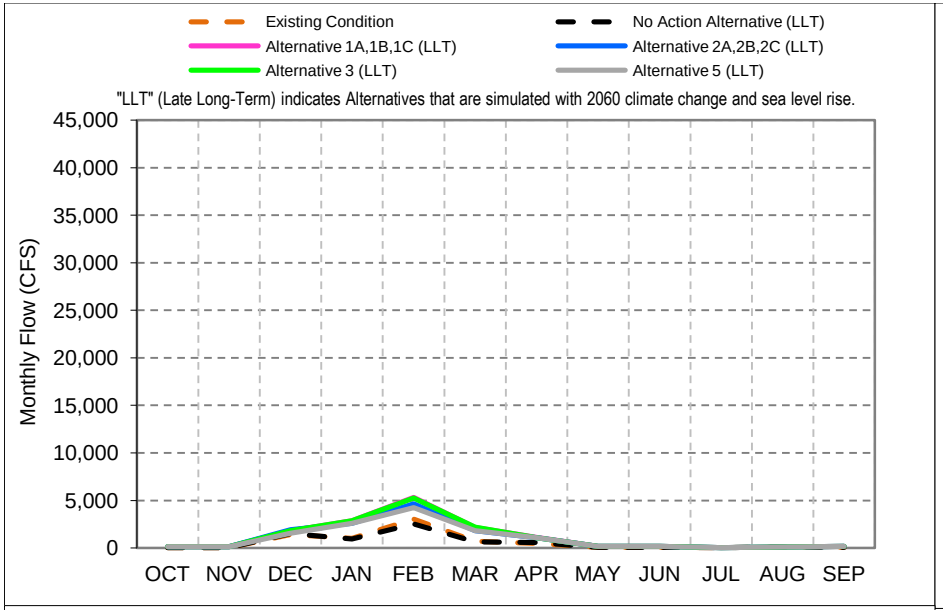


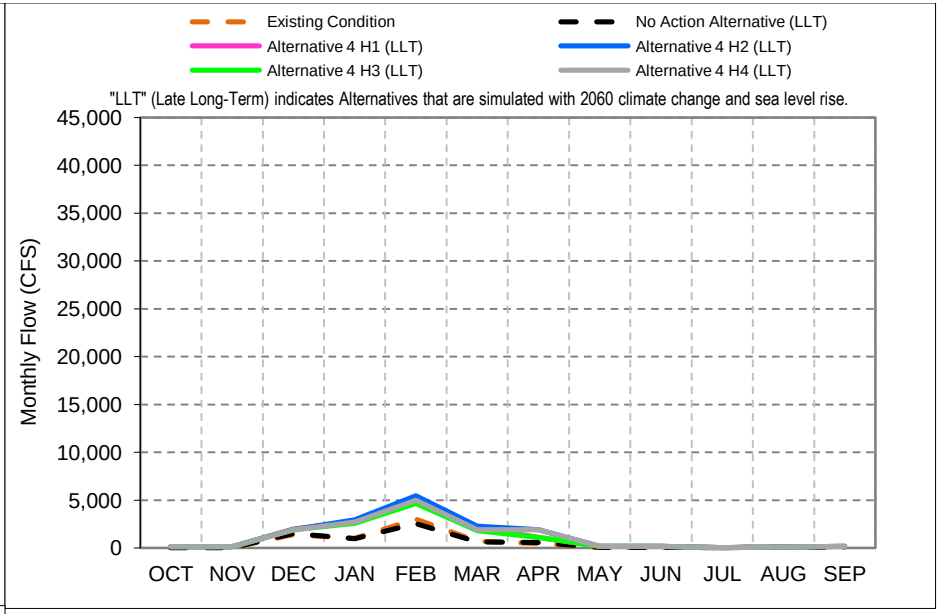
Alternative 4 Scenario Definitions:

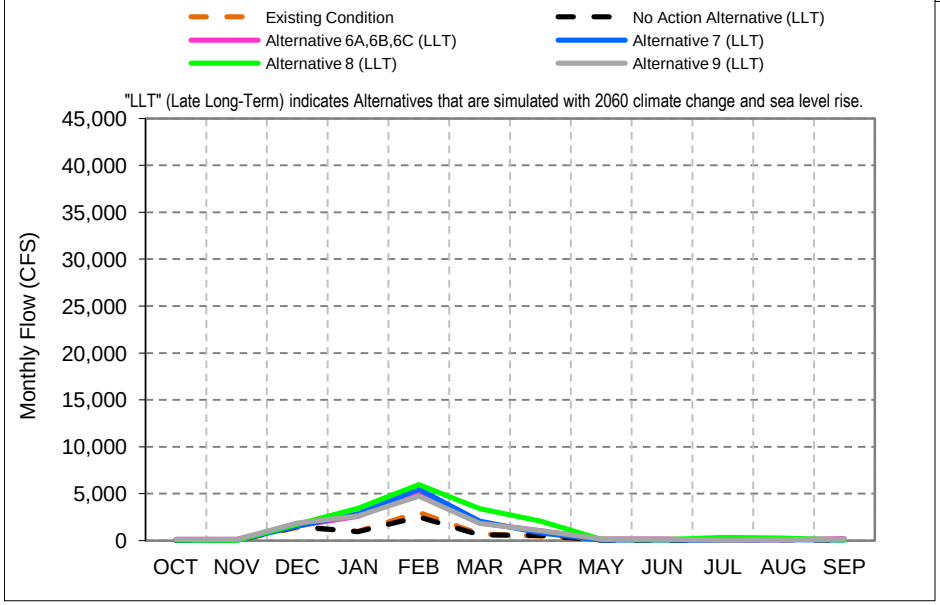
H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-22-3. Yolo Bypass, Above Normal Year* Average Flow





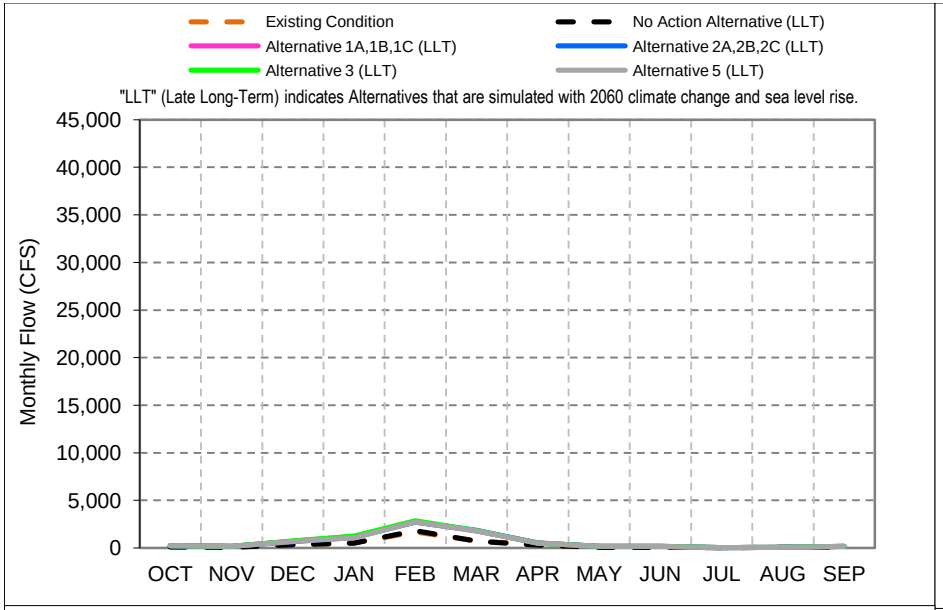


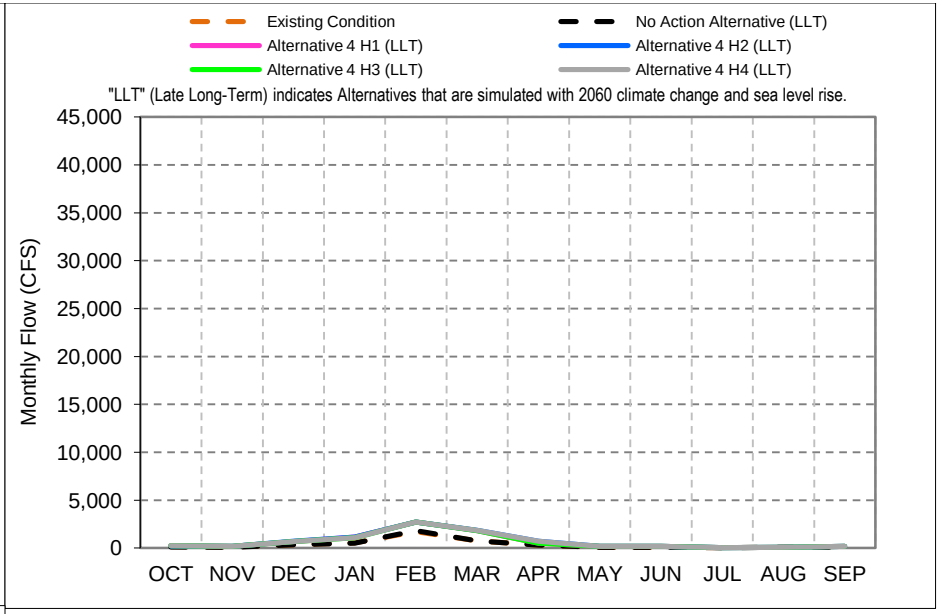
Alternative 4 Scenario Definitions:

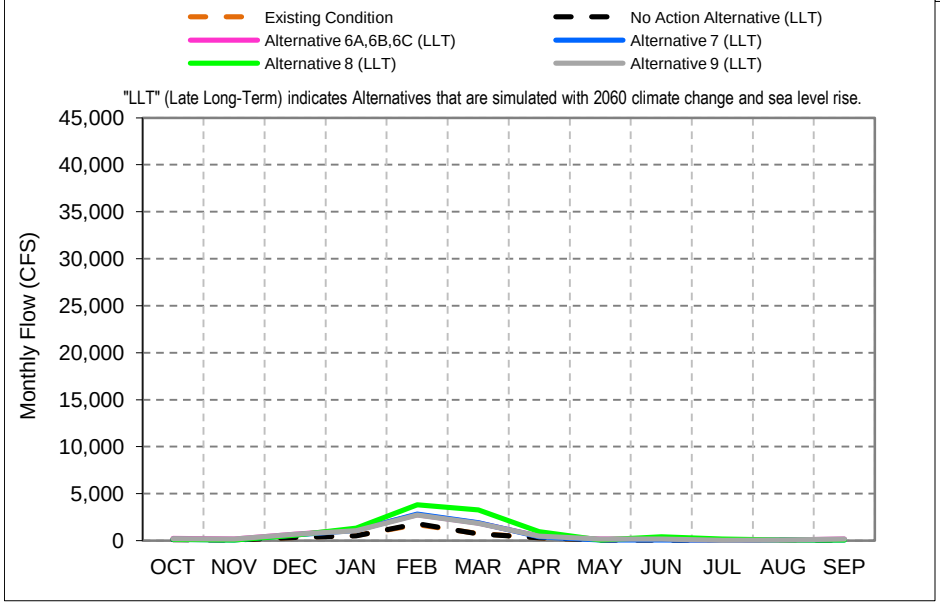
H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-22-4. Yolo Bypass, Below Normal Year* Average Flow





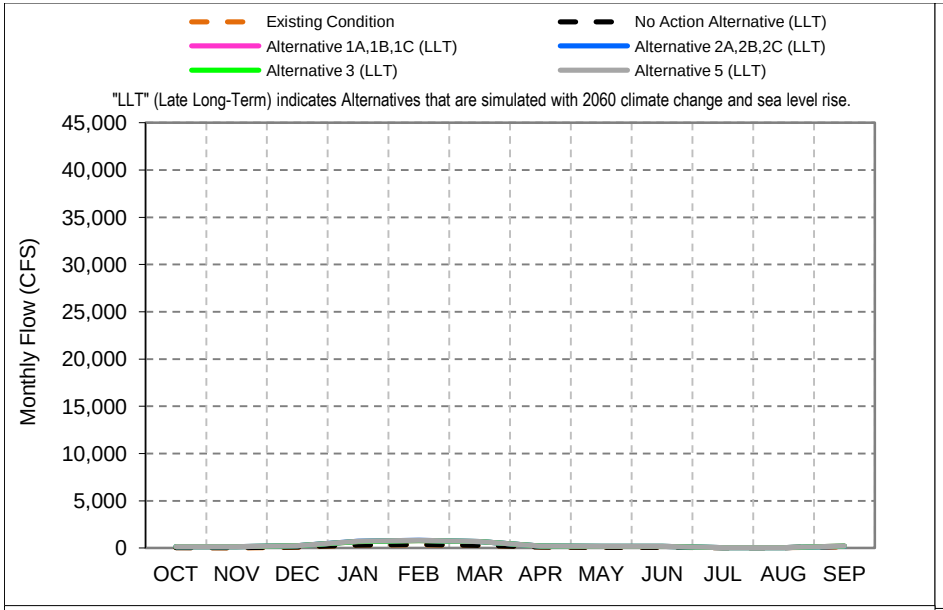


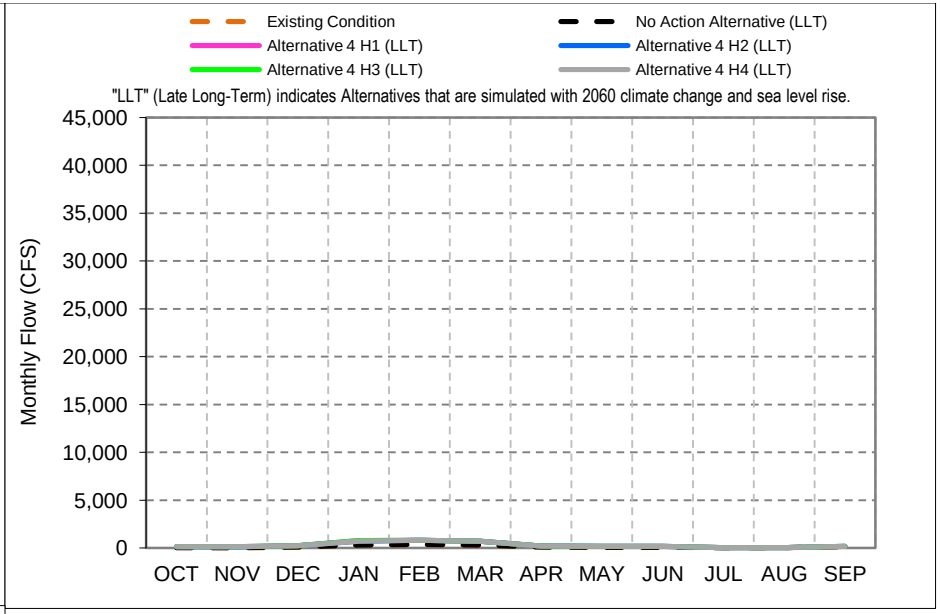
Alternative 4 Scenario Definitions:

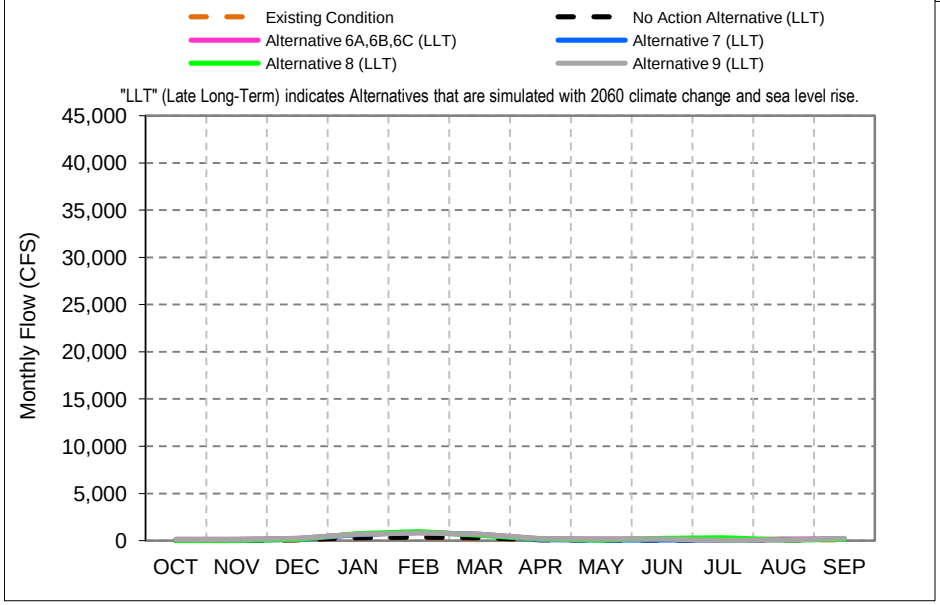
H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-22-5. Yolo Bypass, Dry Year* Average Flow







Alternative 4 Scenario Definitions:

H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-22-6. Yolo Bypass, Critical Year* Average Flow

Table C-22-1. Yolo Bypass, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	74	425	13,029	34,322	44,019	23,884	6,581	314	66	47	181	168
20%	59	105	2,852	12,944	17,808	7,921	3,162	75	66	47	54	82
30%	57	40	955	4,016	7,657	3,425	532	70	66	47	54	57
40%	50	9	313	1,888	5,306	1,737	196	67	66	47	54	57
50%	47	8	155	552	2,361	940	133	65	66	47	54	57
60%	40	5	36	315	700	359	110	62	65	47	54	57
70%	34	1	5	115	234	115	86	60	64	47	54	56
80%	17	0	0	50	58	47	73	56	63	47	54	54
90%	8	0	0	4	1	6	53	50	61	47	53	50
Long Term												
Full Simulation Period[a]	144	432	3,669	9,989	12,908	8,508	2,428	267	120	47	102	81
Water Year Types[b]												
Wet (32%)	305	1,196	9,767	26,963	31,634	21,628	6,490	640	240	47	149	76
Above Normal (15%)	37	132	1,663	7,560	13,234	9,041	1,400	183	65	47	96	68
Below Normal (17%)	52	29	1,408	1,007	3,018	715	488	64	64	47	116	88
Dry (22%)	125	120	353	536	1,703	749	306	76	65	47	61	74
Critical (15%)	39	15	78	299	352	279	104	65	63	47	54	109

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	74	475	8,414	36,552	52,985	26,415	7,160	82	68	48	174	266
20%	63	145	2,777	14,445	24,550	9,902	3,203	77	68	48	55	134
30%	60	50	797	4,805	8,687	4,466	635	72	68	48	55	59
40%	54	25	328	2,005	4,990	2,026	229	69	68	48	55	59
50%	49	9	137	482	2,195	802	139	67	67	48	55	59
60%	43	6	60	243	609	229	114	64	67	48	55	59
70%	32	2	20	79	228	90	95	62	66	48	55	58
80%	17	0	0	42	65	45	78	58	64	48	55	56
90%	6	0	0	0	4	7	56	53	62	48	54	52
Long Term												
Full Simulation Period[a]	87	326	3,526	11,835	15,146	9,795	2,596	138	82	49	100	102
Water Year Types[b]												
Wet (32%)	126	876	9,209	32,670	38,424	25,168	6,953	229	118	48	143	110
Above Normal (15%)	38	159	1,772	7,913	14,188	10,281	1,450	183	66	48	95	65
Below Normal (17%)	50	35	1,505	961	2,539	631	563	67	66	48	114	86
Dry (22%)	121	69	343	500	1,821	729	308	77	67	48	62	76
Critical (15%)	44	27	98	306	363	292	107	68	64	55	54	182

No Action Alternative (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	50	-4,615	2,230	8,966	2,532	579	-233	2	1	-8	99
20%	4	40	-76	1,501	6,742	1,981	41	2	2	1	1	52
30%	4	10	-158	789	1,030	1,042	103	2	2	1	1	2
40%	4	15	15	117	-316	289	34	2	2	1	1	2
50%	2	1	-19	-70	-166	-139	6	2	2	1	1	2
60%	3	2	23	-71	-91	-130	5	2	2	1	1	2
70%	-2	1	15	-36	-6	-26	9	3	2	1	1	2
80%	0	0	0	-8	8	-2	5	2	2	1	1	2
90%	-2	0	0	-4	3	1	3	3	2	1	1	2
Long Term												
Full Simulation Period[a]	-57	-106	-144	1,846	2,238	1,287	168	-129	-38	2	-2	21
Water Year Types[b]												
Wet (32%)	-179	-320	-558	5,707	6,789	3,540	463	-411	-122	1	-6	34
Above Normal (15%)	1	27	109	353	954	1,240	50	0	2	1	-1	-3
Below Normal (17%)	-2	6	97	-46	-480	-84	76	3	2	1	-2	-2
Dry (22%)	-4	-51	-10	-36	118	-20	2	1	2	1	1	2
Critical (15%)	5	12	20	7	11	13	2	3	2	8	1	73

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-22-2. Yolo Bypass, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	74	425	13,029	34,322	44,019	23,884	6,581	314	66	47	181	168
20%	59	105	2,852	12,944	17,808	7,921	3,162	75	66	47	54	82
30%	57	40	955	4,016	7,657	3,425	532	70	66	47	54	57
40%	50	9	313	1,888	5,306	1,737	196	67	66	47	54	57
50%	47	8	155	552	2,361	940	133	65	66	47	54	57
60%	40	5	36	315	700	359	110	62	65	47	54	57
70%	34	1	5	115	234	115	86	60	64	47	54	56
80%	17	0	0	50	58	47	73	56	63	47	54	54
90%	8	0	0	4	1	6	53	50	61	47	53	50
Long Term												
Full Simulation Period[a]	144	432	3,669	9,989	12,908	8,508	2,428	267	120	47	102	81
Water Year Types[b]												
Wet (32%)	305	1,196	9,767	26,963	31,634	21,628	6,490	640	240	47	149	76
Above Normal (15%)	37	132	1,663	7,560	13,234	9,041	1,400	183	65	47	96	68
Below Normal (17%)	52	29	1,408	1,007	3,018	715	488	64	64	47	116	88
Dry (22%)	125	120	353	536	1,703	749	306	76	65	47	61	74
Critical (15%)	39	15	78	299	352	279	104	65	63	47	54	109

Alternative 1A,1B,1C (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	175	575	13,808	42,074	57,276	28,861	10,305	182	168	48	174	252
20%	163	245	5,775	18,243	25,916	12,349	6,877	177	168	48	55	161
30%	160	150	1,942	8,103	12,875	8,667	2,318	172	168	48	55	159
40%	154	120	985	5,054	9,663	4,864	545	169	168	48	55	159
50%	145	109	577	2,306	4,893	2,985	315	167	167	48	55	159
60%	140	105	324	1,280	2,789	1,601	259	164	167	48	55	159
70%	129	101	197	643	690	711	231	162	166	48	55	158
80%	116	100	110	250	338	269	200	158	164	48	55	155
90%	105	100	100	108	152	149	180	153	162	48	54	152
Long Term												
Full Simulation Period[a]	187	461	4,785	13,676	17,391	11,505	3,621	238	181	48	101	178
Water Year Types[b]												
Wet (32%)	225	1,113	12,422	35,972	41,241	27,454	8,994	329	214	48	147	173
Above Normal (15%)	139	202	2,341	9,653	18,362	13,209	2,926	283	166	48	95	165
Below Normal (17%)	141	138	1,830	2,871	5,337	2,175	1,114	167	166	48	114	185
Dry (22%)	229	168	719	1,211	2,733	1,793	545	177	167	48	62	165
Critical (15%)	146	127	228	694	797	693	213	168	164	48	54	213

Alternative 1A,1B,1C (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	101	150	779	7,752	13,257	4,977	3,724	-133	102	1	-8	85
20%	104	140	2,923	5,300	8,108	4,429	3,715	102	102	1	1	79
30%	103	110	986	4,087	5,218	5,243	1,786	102	102	1	1	102
40%	103	110	673	3,166	4,357	3,127	349	102	102	1	1	102
50%	98	101	422	1,753	2,532	2,044	183	102	102	1	1	102
60%	100	101	288	966	2,089	1,242	150	102	102	1	1	102
70%	95	100	192	528	456	596	146	103	102	1	1	101
80%	99	100	110	200	281	222	127	102	102	1	1	101
90%	97	100	100	105	151	143	127	103	102	1	1	102
Long Term												
Full Simulation Period[a]	43	30	1,116	3,687	4,484	2,997	1,193	-29	61	1	-1	97
Water Year Types[b]												
Wet (32%)	-81	-82	2,655	9,009	9,607	5,827	2,504	-311	-26	1	-2	97
Above Normal (15%)	102	70	678	2,092	5,128	4,169	1,526	100	102	1	-1	97
Below Normal (17%)	89	109	422	1,864	2,318	1,461	626	103	102	1	-2	97
Dry (22%)	105	48	367	675	1,031	1,044	240	101	102	1	1	91
Critical (15%)	107	112	151	396	445	414	109	103	102	1	1	103

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-22-3. Yolo Bypass, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	74	425	13,029	34,322	44,019	23,884	6,581	314	66	47	181	168
20%	59	105	2,852	12,944	17,808	7,921	3,162	75	66	47	54	82
30%	57	40	955	4,016	7,657	3,425	532	70	66	47	54	57
40%	50	9	313	1,888	5,306	1,737	196	67	66	47	54	57
50%	47	8	155	552	2,361	940	133	65	66	47	54	57
60%	40	5	36	315	700	359	110	62	65	47	54	57
70%	34	1	5	115	234	115	86	60	64	47	54	56
80%	17	0	0	50	58	47	73	56	63	47	54	54
90%	8	0	0	4	1	6	53	50	61	47	53	50
Long Term												
Full Simulation Period[a]	144	432	3,669	9,989	12,908	8,508	2,428	267	120	47	102	81
Water Year Types[b]												
Wet (32%)	305	1,196	9,767	26,963	31,634	21,628	6,490	640	240	47	149	76
Above Normal (15%)	37	132	1,663	7,560	13,234	9,041	1,400	183	65	47	96	68
Below Normal (17%)	52	29	1,408	1,007	3,018	715	488	64	64	47	116	88
Dry (22%)	125	120	353	536	1,703	749	306	76	65	47	61	74
Critical (15%)	39	15	78	299	352	279	104	65	63	47	54	109

Alternative 2A,2B,2C (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	192	575	11,022	34,663	54,845	27,465	10,308	182	168	48	174	295
20%	163	245	5,775	16,617	26,776	12,368	6,749	177	168	48	55	210
30%	160	150	1,894	8,105	12,339	8,651	2,243	172	168	48	55	159
40%	154	125	881	4,697	9,238	4,898	532	169	168	48	55	159
50%	145	109	540	2,014	4,896	2,812	275	167	167	48	55	159
60%	141	107	293	1,052	2,340	1,347	234	164	167	48	55	159
70%	132	102	154	473	691	635	211	162	166	48	55	158
80%	117	100	103	230	347	228	187	158	164	48	55	156
90%	105	100	100	115	142	149	173	153	162	48	54	152
Long Term												
Full Simulation Period[a]	188	414	4,461	12,838	16,959	11,341	3,632	238	181	48	100	201
Water Year Types[b]												
Wet (32%)	225	964	11,376	33,649	40,767	27,149	9,063	328	214	48	144	261
Above Normal (15%)	141	204	2,359	9,433	17,190	13,062	2,902	283	166	48	95	165
Below Normal (17%)	142	137	1,922	2,595	4,667	1,838	1,096	167	166	48	114	185
Dry (22%)	231	169	669	1,104	2,735	1,846	523	177	167	48	62	165
Critical (15%)	146	127	228	703	823	696	212	168	164	48	54	178

Alternative 2A,2B,2C (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	117	150	**-2,007**	340	10,827	3,581	3,727	**-133**	102	1	**-8**	127
20%	104	140	2,922	3,674	8,969	4,447	3,587	102	102	1	1	129
30%	103	110	938	4,089	4,682	5,226	1,711	102	102	1	1	102
40%	103	115	569	2,809	3,932	3,161	336	102	102	1	1	102
50%	98	102	385	1,462	2,534	1,872	142	102	102	1	1	102
60%	101	102	257	738	1,640	988	124	102	102	1	1	102
70%	97	101	149	359	458	520	126	103	102	1	1	102
80%	100	100	103	180	289	181	114	102	102	1	1	102
90%	97	100	100	111	141	143	120	103	102	1	1	102
Long Term												
Full Simulation Period[a]	44	**-17**	791	2,849	4,052	2,833	1,203	**-29**	61	1	**-2**	120
Water Year Types[b]												
Wet (32%)	**-80**	**-232**	1,609	6,687	9,133	5,521	2,573	**-312**	**-26**	1	**-5**	185
Above Normal (15%)	104	72	696	1,872	3,955	4,022	1,503	100	102	1	**-1**	97
Below Normal (17%)	90	108	515	1,589	1,648	1,124	608	103	102	1	**-2**	97
Dry (22%)	106	49	316	568	1,032	1,097	217	101	102	1	1	91
Critical (15%)	107	112	151	405	471	416	108	103	102	1	1	69

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-22-4. Yolo Bypass, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	74	425	13,029	34,322	44,019	23,884	6,581	314	66	47	181	168
20%	59	105	2,852	12,944	17,808	7,921	3,162	75	66	47	54	82
30%	57	40	955	4,016	7,657	3,425	532	70	66	47	54	57
40%	50	9	313	1,888	5,306	1,737	196	67	66	47	54	57
50%	47	8	155	552	2,361	940	133	65	66	47	54	57
60%	40	5	36	315	700	359	110	62	65	47	54	57
70%	34	1	5	115	234	115	86	60	64	47	54	56
80%	17	0	0	50	58	47	73	56	63	47	54	54
90%	8	0	0	4	1	6	53	50	61	47	53	50
Long Term												
Full Simulation Period[a]	144	432	3,669	9,989	12,908	8,508	2,428	267	120	47	102	81
Water Year Types[b]												
Wet (32%)	305	1,196	9,767	26,963	31,634	21,628	6,490	640	240	47	149	76
Above Normal (15%)	37	132	1,663	7,560	13,234	9,041	1,400	183	65	47	96	68
Below Normal (17%)	52	29	1,408	1,007	3,018	715	488	64	64	47	116	88
Dry (22%)	125	120	353	536	1,703	749	306	76	65	47	61	74
Critical (15%)	39	15	78	299	352	279	104	65	63	47	54	109

Alternative 3 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	188	575	14,528	41,650	57,275	28,858	10,306	182	168	48	170	252
20%	163	245	6,115	19,257	25,913	12,349	6,880	177	168	48	55	161
30%	160	150	1,927	8,253	12,492	8,613	2,319	172	168	48	55	159
40%	154	120	911	5,098	9,573	4,940	506	169	168	48	55	159
50%	147	109	576	2,280	4,890	2,948	302	167	167	48	55	159
60%	140	105	392	1,410	2,714	1,609	243	164	167	48	55	159
70%	129	101	197	563	969	708	219	162	166	48	55	158
80%	116	100	106	239	340	269	196	158	164	48	55	155
90%	105	100	100	107	137	150	173	153	162	48	54	152
Long Term												
Full Simulation Period[a]	188	462	4,808	13,710	17,444	11,499	3,621	239	181	48	101	178
Water Year Types[b]												
Wet (32%)	224	1,117	12,440	36,019	41,527	27,506	9,024	332	214	48	147	173
Above Normal (15%)	139	202	2,414	9,756	17,988	13,003	2,919	283	166	48	95	165
Below Normal (17%)	141	138	1,814	2,855	5,265	2,190	1,097	167	166	48	114	185
Dry (22%)	230	168	758	1,239	2,862	1,815	518	177	167	48	61	165
Critical (15%)	150	127	229	698	802	700	212	168	164	48	54	213

Alternative 3 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	114	150	1,498	7,327	13,257	4,974	3,724	-133	102	1	-11	85
20%	104	140	3,262	6,314	8,106	4,428	3,718	102	102	1	1	79
30%	104	110	972	4,238	4,835	5,188	1,786	102	102	1	1	102
40%	104	110	598	3,210	4,267	3,203	311	102	102	1	1	102
50%	100	101	420	1,727	2,529	2,008	169	102	102	1	1	102
60%	100	101	356	1,095	2,014	1,250	133	102	102	1	1	102
70%	95	100	192	448	736	593	133	103	102	1	1	101
80%	99	100	106	189	282	221	123	102	102	1	1	101
90%	97	100	100	103	136	144	120	103	102	1	1	102
Long Term												
Full Simulation Period[a]	44	31	1,138	3,721	4,536	2,991	1,192	-28	61	1	-1	97
Water Year Types[b]												
Wet (32%)	-81	-79	2,673	9,056	9,892	5,879	2,534	-308	-26	1	-2	97
Above Normal (15%)	102	70	751	2,195	4,753	3,962	1,519	100	102	1	-1	97
Below Normal (17%)	89	109	406	1,848	2,247	1,476	610	103	102	1	-2	97
Dry (22%)	105	48	406	703	1,159	1,066	212	101	102	1	1	91
Critical (15%)	111	112	152	399	450	420	108	103	102	1	1	103

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-22-5. Yolo Bypass, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	74	425	13,029	34,322	44,019	23,884	6,581	314	66	47	181	168
20%	59	105	2,852	12,944	17,808	7,921	3,162	75	66	47	54	82
30%	57	40	955	4,016	7,657	3,425	532	70	66	47	54	57
40%	50	9	313	1,888	5,306	1,737	196	67	66	47	54	57
50%	47	8	155	552	2,361	940	133	65	66	47	54	57
60%	40	5	36	315	700	359	110	62	65	47	54	57
70%	34	1	5	115	234	115	86	60	64	47	54	56
80%	17	0	0	50	58	47	73	56	63	47	54	54
90%	8	0	0	4	1	6	53	50	61	47	53	50
Long Term												
Full Simulation Period[a]	144	432	3,669	9,989	12,908	8,508	2,428	267	120	47	102	81
Water Year Types[b]												
Wet (32%)	305	1,196	9,767	26,963	31,634	21,628	6,490	640	240	47	149	76
Above Normal (15%)	37	132	1,663	7,560	13,234	9,041	1,400	183	65	47	96	68
Below Normal (17%)	52	29	1,408	1,007	3,018	715	488	64	64	47	116	88
Dry (22%)	125	120	353	536	1,703	749	306	76	65	47	61	74
Critical (15%)	39	15	78	299	352	279	104	65	63	47	54	109

Alternative 4 H1 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	164	575	13,696	42,152	56,466	28,871	10,532	182	168	48	164	227
20%	163	245	5,808	20,215	25,929	12,365	6,883	177	168	48	55	159
30%	160	151	1,784	8,208	12,606	8,912	2,108	172	168	48	55	159
40%	154	127	771	5,142	10,023	5,194	619	169	168	48	55	159
50%	145	109	523	2,410	4,898	2,955	287	167	167	48	55	159
60%	140	107	344	1,257	3,118	1,531	234	164	167	48	55	159
70%	129	102	158	563	830	698	212	162	166	48	55	158
80%	116	100	110	206	334	228	187	158	164	48	55	155
90%	105	100	100	127	129	149	169	153	162	48	54	152
Long Term												
Full Simulation Period[a]	188	494	4,776	13,873	17,381	11,493	3,642	237	181	48	100	171
Water Year Types[b]												
Wet (32%)	228	1,215	12,304	36,226	41,250	27,374	9,093	328	214	48	147	173
Above Normal (15%)	139	204	2,390	10,537	18,263	13,315	2,921	283	166	48	95	165
Below Normal (17%)	141	138	1,988	2,832	5,364	2,151	1,095	167	166	48	106	185
Dry (22%)	230	169	689	1,133	2,724	1,802	518	177	167	48	61	165
Critical (15%)	142	127	233	768	792	694	212	168	164	48	54	167

Alternative 4 H1 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	90	150	667	7,830	12,447	4,988	3,951	**-133**	102	1	**-17**	59
20%	104	140	2,956	7,271	8,122	4,445	3,721	102	102	1	1	78
30%	103	111	829	4,192	4,950	5,487	1,575	102	102	1	1	102
40%	103	117	459	3,255	4,717	3,457	424	102	102	1	1	102
50%	98	102	368	1,858	2,536	2,014	154	102	102	1	1	102
60%	100	102	308	942	2,418	1,172	124	102	102	1	1	102
70%	95	101	153	449	596	583	126	103	102	1	1	101
80%	99	100	110	156	277	181	114	102	102	1	1	101
90%	97	100	100	123	128	143	116	103	102	1	1	102
Long Term												
Full Simulation Period[a]	44	62	1,106	3,884	4,474	2,985	1,214	**-29**	61	1	**-2**	90
Water Year Types[b]												
Wet (32%)	**-77**	19	2,537	9,263	9,615	5,746	2,603	**-312**	**-26**	1	**-2**	97
Above Normal (15%)	102	72	727	2,977	5,029	4,275	1,521	100	102	1	**-1**	97
Below Normal (17%)	89	109	581	1,825	2,345	1,437	607	103	102	1	**-10**	97
Dry (22%)	105	49	336	598	1,021	1,053	212	101	102	1	0	91
Critical (15%)	103	112	156	470	441	415	108	103	102	1	1	57

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-22-6. Yolo Bypass, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	74	425	13,029	34,322	44,019	23,884	6,581	314	66	47	181	168
20%	59	105	2,852	12,944	17,808	7,921	3,162	75	66	47	54	82
30%	57	40	955	4,016	7,657	3,425	532	70	66	47	54	57
40%	50	9	313	1,888	5,306	1,737	196	67	66	47	54	57
50%	47	8	155	552	2,361	940	133	65	66	47	54	57
60%	40	5	36	315	700	359	110	62	65	47	54	57
70%	34	1	5	115	234	115	86	60	64	47	54	56
80%	17	0	0	50	58	47	73	56	63	47	54	54
90%	8	0	0	4	1	6	53	50	61	47	53	50
Long Term												
Full Simulation Period[a]	144	432	3,669	9,989	12,908	8,508	2,428	267	120	47	102	81
Water Year Types[b]												
Wet (32%)	305	1,196	9,767	26,963	31,634	21,628	6,490	640	240	47	149	76
Above Normal (15%)	37	132	1,663	7,560	13,234	9,041	1,400	183	65	47	96	68
Below Normal (17%)	52	29	1,408	1,007	3,018	715	488	64	64	47	116	88
Dry (22%)	125	120	353	536	1,703	749	306	76	65	47	61	74
Critical (15%)	39	15	78	299	352	279	104	65	63	47	54	109

Alternative 4 H2 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	164	575	15,313	47,179	57,091	28,885	10,461	182	168	48	167	227
20%	162	245	5,885	16,872	23,043	12,366	6,564	177	168	48	55	159
30%	160	146	2,392	8,116	12,852	8,709	4,069	172	168	48	55	159
40%	154	117	749	5,142	9,672	4,874	2,757	169	168	48	55	159
50%	146	109	508	2,941	4,891	3,387	1,636	167	167	48	55	159
60%	141	105	258	1,074	2,776	1,599	336	164	167	48	55	159
70%	136	101	142	612	712	640	239	162	166	48	55	158
80%	118	100	102	190	334	229	212	158	164	48	55	155
90%	109	100	100	128	124	148	178	153	162	48	54	152
Long Term												
Full Simulation Period[a]	187	474	5,015	13,782	17,448	11,530	4,161	238	181	48	100	171
Water Year Types[b]												
Wet (32%)	225	1,157	13,264	36,001	41,195	27,399	9,735	329	214	48	147	173
Above Normal (15%)	139	205	2,020	10,299	18,706	13,285	3,841	283	166	48	95	165
Below Normal (17%)	149	134	1,918	2,937	5,470	2,273	1,924	167	166	48	106	185
Dry (22%)	222	169	697	1,158	2,725	1,849	694	177	167	48	61	165
Critical (15%)	141	119	230	711	796	710	213	168	164	48	54	167

Alternative 4 H2 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	90	150	2,284	12,857	13,072	5,001	3,880	**-133**	102	1	**-15**	59
20%	103	140	3,033	3,929	5,235	4,445	3,401	102	102	1	1	78
30%	103	106	1,437	4,100	5,196	5,285	3,537	102	102	1	1	102
40%	103	107	437	3,255	4,366	3,137	2,562	102	102	1	1	102
50%	98	101	353	2,389	2,530	2,447	1,503	102	102	1	1	102
60%	101	101	222	759	2,076	1,240	226	102	102	1	1	102
70%	102	100	137	497	478	524	153	103	102	1	1	101
80%	101	100	102	140	277	181	138	102	102	1	1	101
90%	101	100	100	124	124	142	126	103	102	1	1	102
Long Term												
Full Simulation Period[a]	42	42	1,346	3,793	4,540	3,022	1,732	**-29**	61	1	**-2**	90
Water Year Types[b]												
Wet (32%)	**-80**	**-38**	3,497	9,038	9,561	5,772	3,245	**-311**	**-26**	1	**-2**	97
Above Normal (15%)	102	73	357	2,738	5,472	4,244	2,441	100	102	1	**-1**	97
Below Normal (17%)	97	105	510	1,930	2,452	1,559	1,436	103	102	1	**-10**	97
Dry (22%)	97	49	344	623	1,022	1,100	388	101	102	1	1	91
Critical (15%)	103	105	153	412	444	431	109	103	102	1	1	57

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-22-7. Yolo Bypass, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	74	425	13,029	34,322	44,019	23,884	6,581	314	66	47	181	168
20%	59	105	2,852	12,944	17,808	7,921	3,162	75	66	47	54	82
30%	57	40	955	4,016	7,657	3,425	532	70	66	47	54	57
40%	50	9	313	1,888	5,306	1,737	196	67	66	47	54	57
50%	47	8	155	552	2,361	940	133	65	66	47	54	57
60%	40	5	36	315	700	359	110	62	65	47	54	57
70%	34	1	5	115	234	115	86	60	64	47	54	56
80%	17	0	0	50	58	47	73	56	63	47	54	54
90%	8	0	0	4	1	6	53	50	61	47	53	50
Long Term												
Full Simulation Period[a]	144	432	3,669	9,989	12,908	8,508	2,428	267	120	47	102	81
Water Year Types[b]												
Wet (32%)	305	1,196	9,767	26,963	31,634	21,628	6,490	640	240	47	149	76
Above Normal (15%)	37	132	1,663	7,560	13,234	9,041	1,400	183	65	47	96	68
Below Normal (17%)	52	29	1,408	1,007	3,018	715	488	64	64	47	116	88
Dry (22%)	125	120	353	536	1,703	749	306	76	65	47	61	74
Critical (15%)	39	15	78	299	352	279	104	65	63	47	54	109

Alternative 4 H3 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	175	575	11,262	34,729	56,253	27,482	10,302	182	168	48	174	303
20%	163	245	5,841	16,575	26,256	12,367	6,880	177	168	48	55	210
30%	160	150	1,846	8,098	12,242	8,230	2,244	172	168	48	55	159
40%	154	127	757	4,696	9,109	4,728	620	169	168	48	55	159
50%	145	109	483	2,005	4,898	2,818	276	167	167	48	55	159
60%	141	107	251	1,018	2,360	1,328	234	164	167	48	55	159
70%	129	102	156	550	703	651	211	162	166	48	55	158
80%	117	100	106	203	330	228	187	158	164	48	55	156
90%	105	100	100	106	128	149	170	153	162	48	54	152
Long Term												
Full Simulation Period[a]	189	412	4,431	12,799	17,034	11,289	3,633	237	181	48	101	201
Water Year Types[b]												
Wet (32%)	228	954	11,336	33,499	41,072	27,087	9,062	328	214	48	147	261
Above Normal (15%)	141	204	2,249	9,471	17,074	12,942	2,911	283	166	48	95	165
Below Normal (17%)	141	138	1,911	2,589	4,650	1,798	1,107	167	166	48	114	185
Dry (22%)	232	169	668	1,077	2,729	1,813	518	177	167	48	62	165
Critical (15%)	142	127	234	767	820	694	212	168	164	48	54	181

Alternative 4 H3 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	101	150	**-1,767**	406	12,234	3,598	3,721	**-133**	102	1	**-8**	135
20%	104	140	2,988	3,632	8,449	4,447	3,717	102	102	1	1	129
30%	103	110	890	4,082	4,585	4,805	1,711	102	102	1	1	102
40%	103	117	445	2,808	3,803	2,991	424	102	102	1	1	102
50%	98	102	328	1,452	2,537	1,878	143	102	102	1	1	102
60%	101	102	215	703	1,660	969	124	102	102	1	1	102
70%	95	101	151	435	470	536	126	103	102	1	1	102
80%	100	100	106	153	272	181	114	102	102	1	1	102
90%	97	100	100	102	127	143	118	103	102	1	1	102
Long Term												
Full Simulation Period[a]	45	**-20**	761	2,810	4,127	2,781	1,205	**-29**	61	1	**-1**	120
Water Year Types[b]												
Wet (32%)	**-77**	**-242**	1,569	6,536	9,438	5,459	2,571	**-312**	**-26**	1	**-2**	185
Above Normal (15%)	104	72	586	1,911	3,840	3,901	1,511	100	102	1	**-1**	97
Below Normal (17%)	89	109	503	1,582	1,631	1,083	619	103	102	1	**-2**	97
Dry (22%)	108	49	315	541	1,026	1,063	213	101	102	1	1	91
Critical (15%)	103	112	156	469	468	414	108	103	102	1	1	71

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-22-8. Yolo Bypass, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	74	425	13,029	34,322	44,019	23,884	6,581	314	66	47	181	168
20%	59	105	2,852	12,944	17,808	7,921	3,162	75	66	47	54	82
30%	57	40	955	4,016	7,657	3,425	532	70	66	47	54	57
40%	50	9	313	1,888	5,306	1,737	196	67	66	47	54	57
50%	47	8	155	552	2,361	940	133	65	66	47	54	57
60%	40	5	36	315	700	359	110	62	65	47	54	57
70%	34	1	5	115	234	115	86	60	64	47	54	56
80%	17	0	0	50	58	47	73	56	63	47	54	54
90%	8	0	0	4	1	6	53	50	61	47	53	50
Long Term												
Full Simulation Period[a]	144	432	3,669	9,989	12,908	8,508	2,428	267	120	47	102	81
Water Year Types[b]												
Wet (32%)	305	1,196	9,767	26,963	31,634	21,628	6,490	640	240	47	149	76
Above Normal (15%)	37	132	1,663	7,560	13,234	9,041	1,400	183	65	47	96	68
Below Normal (17%)	52	29	1,408	1,007	3,018	715	488	64	64	47	116	88
Dry (22%)	125	120	353	536	1,703	749	306	76	65	47	61	74
Critical (15%)	39	15	78	299	352	279	104	65	63	47	54	109

Alternative 4 H4 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	175	575	12,166	41,101	56,075	28,990	10,307	182	168	48	174	303
20%	162	245	5,849	16,620	23,160	12,367	6,705	177	168	48	55	213
30%	160	150	1,971	8,207	12,317	8,476	4,128	172	168	48	55	159
40%	154	117	876	4,700	9,158	4,682	2,758	169	168	48	55	159
50%	146	109	508	2,083	4,900	2,961	1,792	167	167	48	55	159
60%	142	105	230	1,016	2,445	1,344	330	164	167	48	55	159
70%	136	101	145	473	690	569	239	162	166	48	55	158
80%	118	100	102	144	276	228	211	158	164	48	55	156
90%	109	100	100	106	122	149	178	153	162	48	54	152
Long Term												
Full Simulation Period[a]	187	415	4,565	13,358	16,938	11,398	4,161	238	181	48	101	205
Water Year Types[b]												
Wet (32%)	225	966	11,882	35,046	40,379	27,368	9,703	329	214	48	147	263
Above Normal (15%)	141	206	2,034	9,867	17,535	12,930	3,929	283	166	48	95	198
Below Normal (17%)	147	133	1,863	2,718	4,974	1,901	1,911	167	166	48	114	185
Dry (22%)	225	169	675	1,071	2,728	1,830	692	177	167	48	62	165
Critical (15%)	141	127	229	703	825	697	213	168	164	48	54	167

Alternative 4 H4 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	101	150	**-863**	6,778	12,056	5,106	3,726	**-133**	102	1	**-8**	135
20%	103	140	2,997	3,676	5,352	4,446	3,543	102	102	1	1	132
30%	103	110	1,016	4,191	4,660	5,051	3,596	102	102	1	1	102
40%	103	107	564	2,812	3,852	2,945	2,562	102	102	1	1	102
50%	98	101	352	1,530	2,539	2,020	1,659	102	102	1	1	102
60%	102	101	194	701	1,745	986	220	102	102	1	1	102
70%	102	100	140	359	457	454	153	103	102	1	1	102
80%	101	100	102	94	219	181	138	102	102	1	1	102
90%	101	100	100	102	121	143	126	103	102	1	1	102
Long Term												
Full Simulation Period[a]	43	**-17**	896	3,369	4,030	2,890	1,733	**-29**	61	1	**-1**	123
Water Year Types[b]												
Wet (32%)	**-80**	**-229**	2,115	8,083	8,745	5,740	3,213	**-311**	**-26**	1	**-2**	187
Above Normal (15%)	104	74	371	2,306	4,300	3,889	2,529	100	102	1	**-1**	130
Below Normal (17%)	95	105	456	1,711	1,955	1,186	1,424	103	102	1	**-2**	97
Dry (22%)	100	49	323	536	1,025	1,081	386	101	102	1	1	91
Critical (15%)	103	112	151	404	473	417	108	103	102	1	1	57

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-22-9. Yolo Bypass, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	74	425	13,029	34,322	44,019	23,884	6,581	314	66	47	181	168
20%	59	105	2,852	12,944	17,808	7,921	3,162	75	66	47	54	82
30%	57	40	955	4,016	7,657	3,425	532	70	66	47	54	57
40%	50	9	313	1,888	5,306	1,737	196	67	66	47	54	57
50%	47	8	155	552	2,361	940	133	65	66	47	54	57
60%	40	5	36	315	700	359	110	62	65	47	54	57
70%	34	1	5	115	234	115	86	60	64	47	54	56
80%	17	0	0	50	58	47	73	56	63	47	54	54
90%	8	0	0	4	1	6	53	50	61	47	53	50
Long Term												
Full Simulation Period[a]	144	432	3,669	9,989	12,908	8,508	2,428	267	120	47	102	81
Water Year Types[b]												
Wet (32%)	305	1,196	9,767	26,963	31,634	21,628	6,490	640	240	47	149	76
Above Normal (15%)	37	132	1,663	7,560	13,234	9,041	1,400	183	65	47	96	68
Below Normal (17%)	52	29	1,408	1,007	3,018	715	488	64	64	47	116	88
Dry (22%)	125	120	353	536	1,703	749	306	76	65	47	61	74
Critical (15%)	39	15	78	299	352	279	104	65	63	47	54	109

Alternative 5 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	183	575	11,396	33,063	56,240	28,967	10,301	182	168	48	162	362
20%	163	245	5,857	16,596	27,010	12,365	6,881	177	168	48	55	225
30%	161	150	1,907	8,207	12,336	8,970	2,248	172	168	48	55	159
40%	154	120	775	4,692	8,008	4,754	506	169	168	48	55	159
50%	149	109	483	1,909	4,895	2,942	275	167	167	48	55	159
60%	141	106	264	1,009	2,258	1,236	239	164	167	48	55	159
70%	129	101	158	471	691	626	211	162	166	48	55	158
80%	116	100	110	186	332	228	189	158	164	48	55	156
90%	105	100	100	115	139	149	173	153	162	48	54	152
Long Term												
Full Simulation Period[a]	188	408	4,397	12,975	16,912	11,406	3,623	237	181	48	100	207
Water Year Types[b]												
Wet (32%)	225	944	11,508	34,102	41,053	27,262	9,059	328	214	48	147	261
Above Normal (15%)	139	202	2,060	9,399	16,733	13,335	2,906	283	166	48	95	165
Below Normal (17%)	145	138	1,548	2,608	4,257	1,833	1,082	167	166	48	106	185
Dry (22%)	230	168	677	1,085	2,730	1,800	497	177	167	48	60	165
Critical (15%)	145	127	229	704	823	695	216	168	164	48	54	222

Alternative 5 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	108	150	**-1,633**	**-1,259**	12,222	5,083	3,720	**-133**	102	1	**-19**	194
20%	104	140	3,005	3,652	9,202	4,444	3,719	102	102	1	1	144
30%	104	110	952	4,191	4,679	5,545	1,716	102	102	1	1	102
40%	104	110	463	2,804	2,702	3,017	311	102	102	1	1	102
50%	102	101	327	1,357	2,534	2,002	142	102	102	1	1	102
60%	101	101	228	694	1,558	877	129	102	102	1	1	102
70%	95	100	153	357	457	510	126	103	102	1	1	102
80%	99	100	110	136	275	181	115	102	102	1	1	102
90%	97	100	100	112	138	143	120	103	102	1	1	102
Long Term												
Full Simulation Period[a]	44	**-24**	728	2,986	4,004	2,898	1,195	**-30**	61	1	**-3**	126
Water Year Types[b]												
Wet (32%)	**-80**	**-252**	1,741	7,139	9,419	5,634	2,569	**-312**	**-26**	1	**-2**	185
Above Normal (15%)	102	70	397	1,839	3,499	4,295	1,506	100	102	1	**-1**	97
Below Normal (17%)	93	109	140	1,601	1,238	1,119	595	103	102	1	**-10**	97
Dry (22%)	105	48	324	549	1,027	1,051	191	101	102	1	**-1**	91
Critical (15%)	107	112	152	406	472	416	112	103	102	1	1	113

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-22-10. Yolo Bypass, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	74	425	13,029	34,322	44,019	23,884	6,581	314	66	47	181	168
20%	59	105	2,852	12,944	17,808	7,921	3,162	75	66	47	54	82
30%	57	40	955	4,016	7,657	3,425	532	70	66	47	54	57
40%	50	9	313	1,888	5,306	1,737	196	67	66	47	54	57
50%	47	8	155	552	2,361	940	133	65	66	47	54	57
60%	40	5	36	315	700	359	110	62	65	47	54	57
70%	34	1	5	115	234	115	86	60	64	47	54	56
80%	17	0	0	50	58	47	73	56	63	47	54	54
90%	8	0	0	4	1	6	53	50	61	47	53	50
Long Term												
Full Simulation Period[a]	144	432	3,669	9,989	12,908	8,508	2,428	267	120	47	102	81
Water Year Types[b]												
Wet (32%)	305	1,196	9,767	26,963	31,634	21,628	6,490	640	240	47	149	76
Above Normal (15%)	37	132	1,663	7,560	13,234	9,041	1,400	183	65	47	96	68
Below Normal (17%)	52	29	1,408	1,007	3,018	715	488	64	64	47	116	88
Dry (22%)	125	120	353	536	1,703	749	306	76	65	47	61	74
Critical (15%)	39	15	78	299	352	279	104	65	63	47	54	109

Alternative 6A,6B,6C (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	164	575	12,988	35,013	55,118	27,843	10,558	182	168	48	379	338
20%	162	249	6,294	18,301	25,986	12,368	6,870	177	168	48	55	185
30%	159	161	2,298	8,631	12,668	8,999	2,244	172	168	48	55	159
40%	153	136	749	4,706	9,408	4,934	506	169	168	48	55	159
50%	146	123	466	2,082	5,040	2,808	267	167	167	48	55	159
60%	142	110	231	975	2,704	1,547	232	164	167	48	55	159
70%	136	107	142	472	573	658	211	162	166	48	55	158
80%	118	103	109	146	289	224	187	158	164	48	55	156
90%	106	100	100	102	129	148	173	153	162	48	54	152
Long Term												
Full Simulation Period[a]	192	427	4,883	14,094	17,243	11,517	3,645	239	181	49	116	192
Water Year Types[b]												
Wet (32%)	244	993	12,855	36,918	41,066	27,432	9,141	333	214	48	147	210
Above Normal (15%)	134	218	2,429	10,844	17,957	13,598	2,908	283	166	48	95	165
Below Normal (17%)	147	144	1,585	2,606	5,082	1,864	1,070	167	166	48	114	209
Dry (22%)	225	169	672	1,166	2,748	1,867	491	177	167	48	57	182
Critical (15%)	141	129	229	688	847	694	213	168	164	56	164	179

Alternative 6A,6B,6C (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	90	150	-41	690	11,099	3,959	3,977	-133	102	1	197	171
20%	103	144	3,442	5,358	8,178	4,447	3,708	102	102	1	1	103
30%	102	122	1,342	4,615	5,012	5,574	1,712	102	102	1	1	102
40%	103	127	436	2,818	4,102	3,196	311	102	102	1	1	102
50%	98	115	311	1,529	2,679	1,867	134	102	102	1	1	102
60%	102	105	195	660	2,004	1,188	123	102	102	1	1	102
70%	102	106	137	358	340	542	126	103	102	1	1	102
80%	101	103	109	96	231	177	114	102	102	1	1	102
90%	98	100	100	99	128	142	120	103	102	1	1	102
Long Term												
Full Simulation Period[a]	48	-5	1,214	4,105	4,336	3,009	1,217	-28	61	2	14	111
Water Year Types[b]												
Wet (32%)	-61	-202	3,088	9,955	9,431	5,804	2,650	-307	-26	1	-2	134
Above Normal (15%)	97	86	766	3,283	4,722	4,557	1,508	100	102	1	-1	97
Below Normal (17%)	95	115	178	1,599	2,063	1,149	583	103	102	1	-2	122
Dry (22%)	100	49	320	630	1,045	1,117	186	101	102	1	-4	108
Critical (15%)	103	114	151	389	495	415	108	103	102	9	110	69

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-22-11. Yolo Bypass, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	74	425	13,029	34,322	44,019	23,884	6,581	314	66	47	181	168
20%	59	105	2,852	12,944	17,808	7,921	3,162	75	66	47	54	82
30%	57	40	955	4,016	7,657	3,425	532	70	66	47	54	57
40%	50	9	313	1,888	5,306	1,737	196	67	66	47	54	57
50%	47	8	155	552	2,361	940	133	65	66	47	54	57
60%	40	5	36	315	700	359	110	62	65	47	54	57
70%	34	1	5	115	234	115	86	60	64	47	54	56
80%	17	0	0	50	58	47	73	56	63	47	54	54
90%	8	0	0	4	1	6	53	50	61	47	53	50
Long Term												
Full Simulation Period[a]	144	432	3,669	9,989	12,908	8,508	2,428	267	120	47	102	81
Water Year Types[b]												
Wet (32%)	305	1,196	9,767	26,963	31,634	21,628	6,490	640	240	47	149	76
Above Normal (15%)	37	132	1,663	7,560	13,234	9,041	1,400	183	65	47	96	68
Below Normal (17%)	52	29	1,408	1,007	3,018	715	488	64	64	47	116	88
Dry (22%)	125	120	353	536	1,703	749	306	76	65	47	61	74
Critical (15%)	39	15	78	299	352	279	104	65	63	47	54	109

Alternative 7 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	98	475	12,200	33,507	56,209	27,464	8,567	82	68	48	288	266
20%	63	149	6,786	17,732	26,475	13,013	5,726	77	68	48	55	138
30%	61	61	1,935	9,372	13,345	9,112	2,244	72	68	48	55	60
40%	54	36	728	5,260	10,012	5,786	406	69	68	48	55	59
50%	49	23	413	2,247	5,665	3,061	172	67	67	48	55	59
60%	43	10	148	946	2,849	1,406	126	64	67	48	55	59
70%	37	7	42	376	812	587	111	62	66	48	55	58
80%	19	5	6	55	247	205	86	58	64	48	55	56
90%	9	0	0	6	50	48	73	53	62	48	54	53
Long Term												
Full Simulation Period[a]	90	334	4,859	13,876	17,588	11,660	3,167	139	81	49	107	108
Water Year Types[b]												
Wet (32%)	126	916	12,697	36,039	41,779	27,688	8,040	233	114	48	147	162
Above Normal (15%)	47	113	2,828	11,091	18,152	13,749	2,551	183	66	48	95	65
Below Normal (17%)	54	44	1,545	2,875	5,496	2,073	813	67	66	48	106	85
Dry (22%)	125	71	619	1,095	2,820	1,908	404	77	67	48	59	68
Critical (15%)	46	29	132	646	872	657	113	68	64	56	106	123

Alternative 7 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	24	50	**-829**	**-816**	12,191	3,580	1,986	**-233**	2	1	107	99
20%	4	44	3,933	4,789	8,668	5,092	2,563	2	2	1	1	57
30%	4	22	979	5,357	5,688	5,688	1,712	2	2	1	1	2
40%	4	27	415	3,372	4,706	4,049	211	2	2	1	1	2
50%	2	15	258	1,695	3,304	2,121	39	2	2	1	1	2
60%	3	5	112	632	2,149	1,048	17	2	2	1	1	2
70%	3	6	37	262	579	472	25	3	2	1	1	2
80%	2	5	6	5	189	157	13	2	2	1	1	2
90%	1	0	0	3	49	42	20	3	2	1	1	3
Long Term												
Full Simulation Period[a]	**-54**	**-98**	1,189	3,887	4,680	3,152	738	**-128**	**-39**	2	5	27
Water Year Types[b]												
Wet (32%)	**-180**	**-280**	2,930	9,076	10,145	6,060	1,549	**-407**	**-126**	1	**-2**	86
Above Normal (15%)	10	**-19**	1,165	3,530	4,917	4,708	1,151	**0**	2	1	**-1**	**-3**
Below Normal (17%)	2	15	138	1,868	2,477	1,359	326	3	2	1	**-10**	**-3**
Dry (22%)	**0**	**-49**	267	560	1,117	1,159	98	1	2	1	**-2**	**-7**
Critical (15%)	7	14	54	347	520	377	9	3	2	9	52	14

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-22-12. Yolo Bypass, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	74	425	13,029	34,322	44,019	23,884	6,581	314	66	47	181	168
20%	59	105	2,852	12,944	17,808	7,921	3,162	75	66	47	54	82
30%	57	40	955	4,016	7,657	3,425	532	70	66	47	54	57
40%	50	9	313	1,888	5,306	1,737	196	67	66	47	54	57
50%	47	8	155	552	2,361	940	133	65	66	47	54	57
60%	40	5	36	315	700	359	110	62	65	47	54	57
70%	34	1	5	115	234	115	86	60	64	47	54	56
80%	17	0	0	50	58	47	73	56	63	47	54	54
90%	8	0	0	4	1	6	53	50	61	47	53	50
Long Term												
Full Simulation Period[a]	144	432	3,669	9,989	12,908	8,508	2,428	267	120	47	102	81
Water Year Types[b]												
Wet (32%)	305	1,196	9,767	26,963	31,634	21,628	6,490	640	240	47	149	76
Above Normal (15%)	37	132	1,663	7,560	13,234	9,041	1,400	183	65	47	96	68
Below Normal (17%)	52	29	1,408	1,007	3,018	715	488	64	64	47	116	88
Dry (22%)	125	120	353	536	1,703	749	306	76	65	47	61	74
Critical (15%)	39	15	78	299	352	279	104	65	63	47	54	109

Alternative 8 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	76	475	11,757	44,983	55,416	27,671	9,904	289	632	678	536	161
20%	63	149	6,240	19,636	25,014	12,897	6,207	78	336	255	211	69
30%	60	51	1,914	10,688	14,167	10,655	3,856	73	68	48	55	59
40%	54	36	646	5,747	10,750	6,381	2,279	70	68	48	55	59
50%	49	23	353	3,278	6,893	4,911	883	67	68	48	55	59
60%	43	10	147	1,591	4,079	3,063	535	64	68	48	55	59
70%	38	7	42	445	1,740	1,514	270	63	67	48	55	58
80%	23	5	9	115	420	451	150	59	66	48	55	55
90%	11	0	0	6	79	85	110	53	63	48	55	52
Long Term												
Full Simulation Period[a]	88	284	4,778	14,874	17,577	12,241	3,995	178	192	175	156	89
Water Year Types[b]												
Wet (32%)	124	759	12,772	38,226	40,842	27,901	8,857	298	114	48	189	95
Above Normal (15%)	40	108	1,935	12,032	17,986	13,715	4,078	222	102	106	211	65
Below Normal (17%)	55	44	1,731	3,461	5,971	3,411	2,083	122	108	357	263	85
Dry (22%)	125	71	597	1,320	3,820	3,274	955	77	401	181	57	76
Critical (15%)	41	29	125	763	936	590	169	87	233	298	54	124

Alternative 8 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2	50	**-1,272**	10,661	11,398	3,788	3,323	**-25**	565	631	355	**-6**
20%	4	44	3,388	6,692	7,206	4,976	3,044	3	269	208	157	**-12**
30%	4	11	959	6,672	6,510	7,231	3,324	3	2	1	1	2
40%	4	26	333	3,859	5,444	4,644	2,083	2	2	1	1	2
50%	2	15	197	2,726	4,532	3,971	750	2	2	1	1	2
60%	3	5	111	1,277	3,379	2,704	425	2	3	1	1	2
70%	4	6	37	330	1,507	1,399	184	3	3	1	1	2
80%	5	5	9	65	362	404	77	3	3	1	1	2
90%	3	0	0	3	78	80	57	3	2	1	1	2
Long Term												
Full Simulation Period[a]	**-56**	**-148**	1,109	4,885	4,669	3,733	1,567	**-89**	72	128	54	8
Water Year Types[b]												
Wet (32%)	**-182**	**-436**	3,005	11,263	9,207	6,273	2,366	**-342**	**-126**	1	40	20
Above Normal (15%)	4	**-24**	272	4,471	4,751	4,675	2,678	39	37	59	115	**-3**
Below Normal (17%)	3	15	323	2,454	2,952	2,697	1,596	58	44	310	147	**-3**
Dry (22%)	0	**-49**	244	784	2,117	2,525	649	1	336	133	**-4**	2
Critical (15%)	3	14	48	464	584	310	65	22	170	250	1	14

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-22-13. Yolo Bypass, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	74	425	13,029	34,322	44,019	23,884	6,581	314	66	47	181	168
20%	59	105	2,852	12,944	17,808	7,921	3,162	75	66	47	54	82
30%	57	40	955	4,016	7,657	3,425	532	70	66	47	54	57
40%	50	9	313	1,888	5,306	1,737	196	67	66	47	54	57
50%	47	8	155	552	2,361	940	133	65	66	47	54	57
60%	40	5	36	315	700	359	110	62	65	47	54	57
70%	34	1	5	115	234	115	86	60	64	47	54	56
80%	17	0	0	50	58	47	73	56	63	47	54	54
90%	8	0	0	4	1	6	53	50	61	47	53	50
Long Term												
Full Simulation Period[a]	144	432	3,669	9,989	12,908	8,508	2,428	267	120	47	102	81
Water Year Types[b]												
Wet (32%)	305	1,196	9,767	26,963	31,634	21,628	6,490	640	240	47	149	76
Above Normal (15%)	37	132	1,663	7,560	13,234	9,041	1,400	183	65	47	96	68
Below Normal (17%)	52	29	1,408	1,007	3,018	715	488	64	64	47	116	88
Dry (22%)	125	120	353	536	1,703	749	306	76	65	47	61	74
Critical (15%)	39	15	78	299	352	279	104	65	63	47	54	109

Alternative 9 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	164	575	10,940	37,360	55,359	27,022	10,301	182	168	48	163	366
20%	162	245	5,815	16,584	24,435	12,365	6,756	177	168	48	55	248
30%	160	150	1,588	8,180	12,172	8,760	2,203	172	168	48	55	163
40%	154	129	733	4,678	8,130	4,681	506	169	168	48	55	159
50%	146	110	468	1,908	4,897	2,845	263	167	167	48	55	159
60%	140	107	228	970	2,128	1,206	239	164	167	48	55	159
70%	129	105	149	472	692	622	210	162	166	48	55	158
80%	116	100	110	145	240	253	187	158	164	48	55	156
90%	105	100	100	103	122	149	173	153	162	48	54	153
Long Term												
Full Simulation Period[a]	186	427	4,325	13,284	16,579	11,238	3,611	237	181	48	94	211
Water Year Types[b]												
Wet (32%)	224	996	11,010	34,846	40,006	27,026	9,043	328	214	48	136	264
Above Normal (15%)	138	215	2,294	9,928	16,168	12,628	2,888	283	166	48	87	165
Below Normal (17%)	142	137	1,863	2,616	4,750	1,857	1,073	167	166	48	99	185
Dry (22%)	222	171	668	1,073	2,725	1,833	487	177	167	48	60	171
Critical (15%)	145	127	227	687	816	695	214	168	164	48	57	234

Alternative 9 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	90	150	**-2,090**	3,037	11,340	3,139	3,720	**-133**	102	1	**-18**	199
20%	103	140	2,962	3,641	6,627	4,445	3,594	102	102	1	1	167
30%	103	110	632	4,164	4,515	5,335	1,671	102	102	1	1	106
40%	103	119	420	2,790	2,824	2,944	311	102	102	1	1	102
50%	98	102	312	1,356	2,536	1,904	130	102	102	1	1	102
60%	100	102	192	655	1,428	847	129	102	102	1	1	102
70%	95	104	144	358	458	507	124	103	102	1	1	102
80%	99	100	110	95	182	206	114	102	102	1	1	102
90%	97	100	100	99	121	143	120	103	102	1	1	103
Long Term												
Full Simulation Period[a]	41	**-5**	656	3,296	3,672	2,730	1,183	**-29**	61	1	**-8**	130
Water Year Types[b]												
Wet (32%)	**-81**	**-199**	1,243	7,883	8,372	5,398	2,553	**-312**	**-26**	1	**-13**	188
Above Normal (15%)	101	83	631	2,367	2,933	3,588	1,488	100	102	1	**-10**	97
Below Normal (17%)	90	108	456	1,609	1,732	1,142	586	103	102	1	**-17**	97
Dry (22%)	97	51	316	538	1,022	1,084	181	101	102	1	**0**	97
Critical (15%)	107	112	150	388	464	415	110	103	102	1	3	125

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-22-14. Yolo Bypass, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	74	475	8,414	36,552	52,985	26,415	7,160	82	68	48	174	266
20%	63	145	2,777	14,445	24,550	9,902	3,203	77	68	48	55	134
30%	60	50	797	4,805	8,687	4,466	635	72	68	48	55	59
40%	54	25	328	2,005	4,990	2,026	229	69	68	48	55	59
50%	49	9	137	482	2,195	802	139	67	67	48	55	59
60%	43	6	60	243	609	229	114	64	67	48	55	59
70%	32	2	20	79	228	90	95	62	66	48	55	58
80%	17	0	0	42	65	45	78	58	64	48	55	56
90%	6	0	0	0	4	7	56	53	62	48	54	52
Long Term												
Full Simulation Period[a]	87	326	3,526	11,835	15,146	9,795	2,596	138	82	49	100	102
Water Year Types[b]												
Wet (32%)	126	876	9,209	32,670	38,424	25,168	6,953	229	118	48	143	110
Above Normal (15%)	38	159	1,772	7,913	14,188	10,281	1,450	183	66	48	95	65
Below Normal (17%)	50	35	1,505	961	2,539	631	563	67	66	48	114	86
Dry (22%)	121	69	343	500	1,821	729	308	77	67	48	62	76
Critical (15%)	44	27	98	306	363	292	107	68	64	55	54	182

Alternative 1A,1B,1C (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	175	575	13,808	42,074	57,276	28,861	10,305	182	168	48	174	252
20%	163	245	5,775	18,243	25,916	12,349	6,877	177	168	48	55	161
30%	160	150	1,942	8,103	12,875	8,667	2,318	172	168	48	55	159
40%	154	120	985	5,054	9,663	4,864	545	169	168	48	55	159
50%	145	109	577	2,306	4,893	2,985	315	167	167	48	55	159
60%	140	105	324	1,280	2,789	1,601	259	164	167	48	55	159
70%	129	101	197	643	690	711	231	162	166	48	55	158
80%	116	100	110	250	338	269	200	158	164	48	55	155
90%	105	100	100	108	152	149	180	153	162	48	54	152
Long Term												
Full Simulation Period[a]	187	461	4,785	13,676	17,391	11,505	3,621	238	181	48	101	178
Water Year Types[b]												
Wet (32%)	225	1,113	12,422	35,972	41,241	27,454	8,994	329	214	48	147	173
Above Normal (15%)	139	202	2,341	9,653	18,362	13,209	2,926	283	166	48	95	165
Below Normal (17%)	141	138	1,830	2,871	5,337	2,175	1,114	167	166	48	114	185
Dry (22%)	229	168	719	1,211	2,733	1,793	545	177	167	48	62	165
Critical (15%)	146	127	228	694	797	693	213	168	164	48	54	213

Alternative 1A,1B,1C (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	101	100	5,394	5,522	4,291	2,445	3,145	100	100	0	0	-14
20%	100	100	2,998	3,799	1,366	2,447	3,674	100	100	0	0	27
30%	99	100	1,145	3,298	4,188	4,201	1,683	100	100	0	0	100
40%	99	95	658	3,049	4,673	2,838	315	100	100	0	0	100
50%	96	100	441	1,824	2,699	2,183	177	100	100	0	0	100
60%	97	99	264	1,037	2,179	1,372	145	100	100	0	0	100
70%	97	100	177	564	462	622	137	100	100	0	0	99
80%	99	100	110	208	273	224	122	100	100	0	0	99
90%	99	100	100	108	148	142	124	100	100	0	0	100
Long Term												
Full Simulation Period[a]	100	135	1,259	1,840	2,246	1,709	1,025	100	99	-1	1	76
Water Year Types[b]												
Wet (32%)	99	238	3,213	3,302	2,818	2,286	2,041	100	96	0	4	63
Above Normal (15%)	101	43	568	1,739	4,174	2,929	1,476	100	100	0	0	100
Below Normal (17%)	91	103	325	1,909	2,798	1,544	550	100	100	0	0	99
Dry (22%)	108	98	377	711	912	1,064	237	100	100	0	0	89
Critical (15%)	102	100	131	389	434	401	106	100	100	-7	0	31

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-22-15. Yolo Bypass, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	74	475	8,414	36,552	52,985	26,415	7,160	82	68	48	174	266
20%	63	145	2,777	14,445	24,550	9,902	3,203	77	68	48	55	134
30%	60	50	797	4,805	8,687	4,466	635	72	68	48	55	59
40%	54	25	328	2,005	4,990	2,026	229	69	68	48	55	59
50%	49	9	137	482	2,195	802	139	67	67	48	55	59
60%	43	6	60	243	609	229	114	64	67	48	55	59
70%	32	2	20	79	228	90	95	62	66	48	55	58
80%	17	0	0	42	65	45	78	58	64	48	55	56
90%	6	0	0	0	4	7	56	53	62	48	54	52
Long Term												
Full Simulation Period[a]	87	326	3,526	11,835	15,146	9,795	2,596	138	82	49	100	102
Water Year Types[b]												
Wet (32%)	126	876	9,209	32,670	38,424	25,168	6,953	229	118	48	143	110
Above Normal (15%)	38	159	1,772	7,913	14,188	10,281	1,450	183	66	48	95	65
Below Normal (17%)	50	35	1,505	961	2,539	631	563	67	66	48	114	86
Dry (22%)	121	69	343	500	1,821	729	308	77	67	48	62	76
Critical (15%)	44	27	98	306	363	292	107	68	64	55	54	182

Alternative 2A,2B,2C (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	192	575	11,022	34,663	54,845	27,465	10,308	182	168	48	174	295
20%	163	245	5,775	16,617	26,776	12,368	6,749	177	168	48	55	210
30%	160	150	1,894	8,105	12,339	8,651	2,243	172	168	48	55	159
40%	154	125	881	4,697	9,238	4,898	532	169	168	48	55	159
50%	145	109	540	2,014	4,896	2,812	275	167	167	48	55	159
60%	141	107	293	1,052	2,340	1,347	234	164	167	48	55	159
70%	132	102	154	473	691	635	211	162	166	48	55	158
80%	117	100	103	230	347	228	187	158	164	48	55	156
90%	105	100	100	115	142	149	173	153	162	48	54	152
Long Term												
Full Simulation Period[a]	188	414	4,461	12,838	16,959	11,341	3,632	238	181	48	100	201
Water Year Types[b]												
Wet (32%)	225	964	11,376	33,649	40,767	27,149	9,063	328	214	48	144	261
Above Normal (15%)	141	204	2,359	9,433	17,190	13,062	2,902	283	166	48	95	165
Below Normal (17%)	142	137	1,922	2,595	4,667	1,838	1,096	167	166	48	114	185
Dry (22%)	231	169	669	1,104	2,735	1,846	523	177	167	48	62	165
Critical (15%)	146	127	228	703	823	696	212	168	164	48	54	178

Alternative 2A,2B,2C (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	117	100	2,607	-1,890	1,861	1,050	3,147	100	100	0	0	28
20%	100	100	2,998	2,173	2,226	2,466	3,546	100	100	0	0	77
30%	99	100	1,097	3,300	3,652	4,185	1,608	100	100	0	0	100
40%	99	100	554	2,692	4,248	2,872	302	100	100	0	0	100
50%	96	100	403	1,532	2,701	2,010	136	100	100	0	0	100
60%	98	100	234	809	1,731	1,118	119	100	100	0	0	100
70%	100	100	133	394	464	546	117	100	100	0	0	100
80%	100	100	103	189	281	183	109	100	100	0	0	100
90%	99	100	100	115	138	142	117	100	100	0	0	100
Long Term												
Full Simulation Period[a]	101	88	935	1,003	1,814	1,546	1,035	100	99	-1	0	99
Water Year Types[b]												
Wet (32%)	99	88	2,167	980	2,344	1,981	2,110	99	96	0	1	151
Above Normal (15%)	103	45	587	1,520	3,002	2,782	1,452	100	100	0	0	100
Below Normal (17%)	92	102	418	1,634	2,128	1,207	532	100	100	0	0	99
Dry (22%)	110	100	326	604	914	1,117	215	100	100	0	0	89
Critical (15%)	102	100	130	398	460	404	106	100	100	-7	0	-4

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-22-16. Yolo Bypass, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	74	475	8,414	36,552	52,985	26,415	7,160	82	68	48	174	266
20%	63	145	2,777	14,445	24,550	9,902	3,203	77	68	48	55	134
30%	60	50	797	4,805	8,687	4,466	635	72	68	48	55	59
40%	54	25	328	2,005	4,990	2,026	229	69	68	48	55	59
50%	49	9	137	482	2,195	802	139	67	67	48	55	59
60%	43	6	60	243	609	229	114	64	67	48	55	59
70%	32	2	20	79	228	90	95	62	66	48	55	58
80%	17	0	0	42	65	45	78	58	64	48	55	56
90%	6	0	0	0	4	7	56	53	62	48	54	52
Long Term												
Full Simulation Period[a]	87	326	3,526	11,835	15,146	9,795	2,596	138	82	49	100	102
Water Year Types[b]												
Wet (32%)	126	876	9,209	32,670	38,424	25,168	6,953	229	118	48	143	110
Above Normal (15%)	38	159	1,772	7,913	14,188	10,281	1,450	183	66	48	95	65
Below Normal (17%)	50	35	1,505	961	2,539	631	563	67	66	48	114	86
Dry (22%)	121	69	343	500	1,821	729	308	77	67	48	62	76
Critical (15%)	44	27	98	306	363	292	107	68	64	55	54	182

Alternative 3 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	188	575	14,528	41,650	57,275	28,858	10,306	182	168	48	170	252
20%	163	245	6,115	19,257	25,913	12,349	6,880	177	168	48	55	161
30%	160	150	1,927	8,253	12,492	8,613	2,319	172	168	48	55	159
40%	154	120	911	5,098	9,573	4,940	506	169	168	48	55	159
50%	147	109	576	2,280	4,890	2,948	302	167	167	48	55	159
60%	140	105	392	1,410	2,714	1,609	243	164	167	48	55	159
70%	129	101	197	563	969	708	219	162	166	48	55	158
80%	116	100	106	239	340	269	196	158	164	48	55	155
90%	105	100	100	107	137	150	173	153	162	48	54	152
Long Term												
Full Simulation Period[a]	188	462	4,808	13,710	17,444	11,499	3,621	239	181	48	101	178
Water Year Types[b]												
Wet (32%)	224	1,117	12,440	36,019	41,527	27,506	9,024	332	214	48	147	173
Above Normal (15%)	139	202	2,414	9,756	17,988	13,003	2,919	283	166	48	95	165
Below Normal (17%)	141	138	1,814	2,855	5,265	2,190	1,097	167	166	48	114	185
Dry (22%)	230	168	758	1,239	2,862	1,815	518	177	167	48	61	165
Critical (15%)	150	127	229	698	802	700	212	168	164	48	54	213

Alternative 3 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	114	100	6,113	5,098	4,290	2,443	3,145	100	100	0	-4	-14
20%	100	100	3,338	4,813	1,363	2,447	3,677	100	100	0	0	27
30%	100	100	1,130	3,448	3,805	4,147	1,684	100	100	0	0	100
40%	100	95	583	3,093	4,583	2,914	277	100	100	0	0	100
50%	98	100	439	1,798	2,695	2,147	163	100	100	0	0	100
60%	97	99	332	1,166	2,105	1,380	128	100	100	0	0	100
70%	97	100	177	484	742	619	124	100	100	0	0	99
80%	99	100	106	198	274	224	118	100	100	0	0	99
90%	99	100	100	107	133	143	117	100	100	0	0	100
Long Term												
Full Simulation Period[a]	101	136	1,282	1,874	2,298	1,704	1,024	101	99	-1	1	76
Water Year Types[b]												
Wet (32%)	98	241	3,231	3,349	3,103	2,338	2,071	103	96	0	4	63
Above Normal (15%)	101	43	642	1,842	3,800	2,722	1,469	100	100	0	0	100
Below Normal (17%)	91	103	309	1,894	2,727	1,559	534	100	100	0	0	99
Dry (22%)	109	98	416	739	1,041	1,086	210	100	100	0	0	89
Critical (15%)	106	100	132	392	438	407	106	100	100	-7	0	31

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-22-17. Yolo Bypass, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	74	475	8,414	36,552	52,985	26,415	7,160	82	68	48	174	266
20%	63	145	2,777	14,445	24,550	9,902	3,203	77	68	48	55	134
30%	60	50	797	4,805	8,687	4,466	635	72	68	48	55	59
40%	54	25	328	2,005	4,990	2,026	229	69	68	48	55	59
50%	49	9	137	482	2,195	802	139	67	67	48	55	59
60%	43	6	60	243	609	229	114	64	67	48	55	59
70%	32	2	20	79	228	90	95	62	66	48	55	58
80%	17	0	0	42	65	45	78	58	64	48	55	56
90%	6	0	0	0	4	7	56	53	62	48	54	52
Long Term												
Full Simulation Period[a]	87	326	3,526	11,835	15,146	9,795	2,596	138	82	49	100	102
Water Year Types[b]												
Wet (32%)	126	876	9,209	32,670	38,424	25,168	6,953	229	118	48	143	110
Above Normal (15%)	38	159	1,772	7,913	14,188	10,281	1,450	183	66	48	95	65
Below Normal (17%)	50	35	1,505	961	2,539	631	563	67	66	48	114	86
Dry (22%)	121	69	343	500	1,821	729	308	77	67	48	62	76
Critical (15%)	44	27	98	306	363	292	107	68	64	55	54	182

Alternative 4 H1 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	164	575	13,696	42,152	56,466	28,871	10,532	182	168	48	164	227
20%	163	245	5,808	20,215	25,929	12,365	6,883	177	168	48	55	159
30%	160	151	1,784	8,208	12,606	8,912	2,108	172	168	48	55	159
40%	154	127	771	5,142	10,023	5,194	619	169	168	48	55	159
50%	145	109	523	2,410	4,898	2,955	287	167	167	48	55	159
60%	140	107	344	1,257	3,118	1,531	234	164	167	48	55	159
70%	129	102	158	563	830	698	212	162	166	48	55	158
80%	116	100	110	206	334	228	187	158	164	48	55	155
90%	105	100	100	127	129	149	169	153	162	48	54	152
Long Term												
Full Simulation Period[a]	188	494	4,776	13,873	17,381	11,493	3,642	237	181	48	100	171
Water Year Types[b]												
Wet (32%)	228	1,215	12,304	36,226	41,250	27,374	9,093	328	214	48	147	173
Above Normal (15%)	139	204	2,390	10,537	18,263	13,315	2,921	283	166	48	95	165
Below Normal (17%)	141	138	1,988	2,832	5,364	2,151	1,095	167	166	48	106	185
Dry (22%)	230	169	689	1,133	2,724	1,802	518	177	167	48	61	165
Critical (15%)	142	127	233	768	792	694	212	168	164	48	54	167

Alternative 4 H1 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	90	100	5,282	5,600	3,481	2,456	3,371	100	100	0	-10	-40
20%	100	100	3,032	5,770	1,379	2,463	3,680	100	100	0	0	26
30%	99	101	987	3,403	3,919	4,446	1,473	100	100	0	0	100
40%	99	102	444	3,137	5,033	3,168	390	100	100	0	0	100
50%	96	100	387	1,928	2,703	2,153	148	100	100	0	0	100
60%	97	100	285	1,014	2,509	1,302	119	100	100	0	0	100
70%	97	100	137	484	602	609	117	100	100	0	0	99
80%	99	100	110	164	269	183	109	100	100	0	0	99
90%	99	100	100	127	125	142	113	100	100	0	0	100
Long Term												
Full Simulation Period[a]	101	168	1,250	2,038	2,236	1,697	1,046	100	99	-1	0	69
Water Year Types[b]												
Wet (32%)	102	339	3,095	3,556	2,826	2,206	2,140	99	96	0	4	63
Above Normal (15%)	101	45	617	2,624	4,075	3,035	1,471	100	100	0	0	100
Below Normal (17%)	91	103	484	1,871	2,825	1,520	531	100	100	0	-7	99
Dry (22%)	109	100	346	633	903	1,073	210	100	100	0	-1	89
Critical (15%)	98	100	136	463	429	402	106	100	100	-7	0	-15

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-22-18. Yolo Bypass, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	74	475	8,414	36,552	52,985	26,415	7,160	82	68	48	174	266
20%	63	145	2,777	14,445	24,550	9,902	3,203	77	68	48	55	134
30%	60	50	797	4,805	8,687	4,466	635	72	68	48	55	59
40%	54	25	328	2,005	4,990	2,026	229	69	68	48	55	59
50%	49	9	137	482	2,195	802	139	67	67	48	55	59
60%	43	6	60	243	609	229	114	64	67	48	55	59
70%	32	2	20	79	228	90	95	62	66	48	55	58
80%	17	0	0	42	65	45	78	58	64	48	55	56
90%	6	0	0	0	4	7	56	53	62	48	54	52
Long Term												
Full Simulation Period[a]	87	326	3,526	11,835	15,146	9,795	2,596	138	82	49	100	102
Water Year Types[b]												
Wet (32%)	126	876	9,209	32,670	38,424	25,168	6,953	229	118	48	143	110
Above Normal (15%)	38	159	1,772	7,913	14,188	10,281	1,450	183	66	48	95	65
Below Normal (17%)	50	35	1,505	961	2,539	631	563	67	66	48	114	86
Dry (22%)	121	69	343	500	1,821	729	308	77	67	48	62	76
Critical (15%)	44	27	98	306	363	292	107	68	64	55	54	182

Alternative 4 H2 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	164	575	15,313	47,179	57,091	28,885	10,461	182	168	48	167	227
20%	162	245	5,885	16,872	23,043	12,366	6,564	177	168	48	55	159
30%	160	146	2,392	8,116	12,852	8,709	4,069	172	168	48	55	159
40%	154	117	749	5,142	9,672	4,874	2,757	169	168	48	55	159
50%	146	109	508	2,941	4,891	3,387	1,636	167	167	48	55	159
60%	141	105	258	1,074	2,776	1,599	336	164	167	48	55	159
70%	136	101	142	612	712	640	239	162	166	48	55	158
80%	118	100	102	190	334	229	212	158	164	48	55	155
90%	109	100	100	128	124	148	178	153	162	48	54	152
Long Term												
Full Simulation Period[a]	187	474	5,015	13,782	17,448	11,530	4,161	238	181	48	100	171
Water Year Types[b]												
Wet (32%)	225	1,157	13,264	36,001	41,195	27,399	9,735	329	214	48	147	173
Above Normal (15%)	139	205	2,020	10,299	18,706	13,285	3,841	283	166	48	95	165
Below Normal (17%)	149	134	1,918	2,937	5,470	2,273	1,924	167	166	48	106	185
Dry (22%)	222	169	697	1,158	2,725	1,849	694	177	167	48	61	165
Critical (15%)	141	119	230	711	796	710	213	168	164	48	54	167

Alternative 4 H2 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	90	100	6,899	10,627	4,106	2,470	3,301	100	100	0	-7	-40
20%	100	100	3,109	2,428	-1,507	2,464	3,361	100	100	0	0	26
30%	100	95	1,595	3,311	4,165	4,243	3,434	100	100	0	0	100
40%	99	92	422	3,137	4,682	2,848	2,528	100	100	0	0	100
50%	96	100	372	2,459	2,696	2,585	1,498	100	100	0	0	100
60%	98	99	198	831	2,167	1,370	221	100	100	0	0	100
70%	104	100	122	533	484	550	144	100	100	0	0	99
80%	101	100	102	148	269	184	134	100	100	0	0	99
90%	103	100	100	128	121	141	123	100	100	0	0	100
Long Term												
Full Simulation Period[a]	99	148	1,490	1,946	2,302	1,735	1,564	100	99	-1	0	69
Water Year Types[b]												
Wet (32%)	99	281	4,055	3,331	2,771	2,232	2,782	100	96	0	4	63
Above Normal (15%)	101	46	248	2,385	4,518	3,004	2,391	100	100	0	0	100
Below Normal (17%)	99	99	413	1,976	2,932	1,642	1,361	100	100	0	-7	99
Dry (22%)	101	100	354	658	904	1,120	386	100	100	0	0	89
Critical (15%)	98	92	132	405	433	418	106	100	100	-7	0	-15

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-22-19. Yolo Bypass, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	74	475	8,414	36,552	52,985	26,415	7,160	82	68	48	174	266
20%	63	145	2,777	14,445	24,550	9,902	3,203	77	68	48	55	134
30%	60	50	797	4,805	8,687	4,466	635	72	68	48	55	59
40%	54	25	328	2,005	4,990	2,026	229	69	68	48	55	59
50%	49	9	137	482	2,195	802	139	67	67	48	55	59
60%	43	6	60	243	609	229	114	64	67	48	55	59
70%	32	2	20	79	228	90	95	62	66	48	55	58
80%	17	0	0	42	65	45	78	58	64	48	55	56
90%	6	0	0	0	4	7	56	53	62	48	54	52
Long Term												
Full Simulation Period[a]	87	326	3,526	11,835	15,146	9,795	2,596	138	82	49	100	102
Water Year Types[b]												
Wet (32%)	126	876	9,209	32,670	38,424	25,168	6,953	229	118	48	143	110
Above Normal (15%)	38	159	1,772	7,913	14,188	10,281	1,450	183	66	48	95	65
Below Normal (17%)	50	35	1,505	961	2,539	631	563	67	66	48	114	86
Dry (22%)	121	69	343	500	1,821	729	308	77	67	48	62	76
Critical (15%)	44	27	98	306	363	292	107	68	64	55	54	182

Alternative 4 H3 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	175	575	11,262	34,729	56,253	27,482	10,302	182	168	48	174	303
20%	163	245	5,841	16,575	26,256	12,367	6,880	177	168	48	55	210
30%	160	150	1,846	8,098	12,242	8,230	2,244	172	168	48	55	159
40%	154	127	757	4,696	9,109	4,728	620	169	168	48	55	159
50%	145	109	483	2,005	4,898	2,818	276	167	167	48	55	159
60%	141	107	251	1,018	2,360	1,328	234	164	167	48	55	159
70%	129	102	156	550	703	651	211	162	166	48	55	158
80%	117	100	106	203	330	228	187	158	164	48	55	156
90%	105	100	100	106	128	149	170	153	162	48	54	152
Long Term												
Full Simulation Period[a]	189	412	4,431	12,799	17,034	11,289	3,633	237	181	48	101	201
Water Year Types[b]												
Wet (32%)	228	954	11,336	33,499	41,072	27,087	9,062	328	214	48	147	261
Above Normal (15%)	141	204	2,249	9,471	17,074	12,942	2,911	283	166	48	95	165
Below Normal (17%)	141	138	1,911	2,589	4,650	1,798	1,107	167	166	48	114	185
Dry (22%)	232	169	668	1,077	2,729	1,813	518	177	167	48	62	165
Critical (15%)	142	127	234	767	820	694	212	168	164	48	54	181

Alternative 4 H3 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	101	100	2,848	**-1,824**	3,268	1,067	3,142	100	100	0	0	36
20%	100	100	3,064	2,131	1,706	2,465	3,677	100	100	0	0	77
30%	99	100	1,049	3,293	3,555	3,763	1,609	100	100	0	0	100
40%	99	102	430	2,691	4,119	2,703	391	100	100	0	0	100
50%	96	100	346	1,523	2,703	2,016	138	100	100	0	0	100
60%	98	100	192	774	1,751	1,099	119	100	100	0	0	100
70%	97	100	135	471	475	561	117	100	100	0	0	100
80%	100	100	106	161	264	183	109	100	100	0	0	100
90%	99	100	100	106	124	142	114	100	100	0	0	100
Long Term												
Full Simulation Period[a]	102	86	905	963	1,889	1,494	1,037	100	99	**-1**	1	99
Water Year Types[b]												
Wet (32%)	102	78	2,127	830	2,649	1,919	2,108	99	96	**0**	4	151
Above Normal (15%)	103	45	477	1,558	2,886	2,661	1,461	100	100	0	0	100
Below Normal (17%)	91	103	406	1,628	2,111	1,167	543	100	100	0	0	99
Dry (22%)	111	100	326	577	908	1,083	210	100	100	0	0	89
Critical (15%)	98	100	136	462	457	402	106	100	100	**-7**	0	**-1**

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-22-20. Yolo Bypass, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	74	475	8,414	36,552	52,985	26,415	7,160	82	68	48	174	266
20%	63	145	2,777	14,445	24,550	9,902	3,203	77	68	48	55	134
30%	60	50	797	4,805	8,687	4,466	635	72	68	48	55	59
40%	54	25	328	2,005	4,990	2,026	229	69	68	48	55	59
50%	49	9	137	482	2,195	802	139	67	67	48	55	59
60%	43	6	60	243	609	229	114	64	67	48	55	59
70%	32	2	20	79	228	90	95	62	66	48	55	58
80%	17	0	0	42	65	45	78	58	64	48	55	56
90%	6	0	0	0	4	7	56	53	62	48	54	52
Long Term												
Full Simulation Period[a]	87	326	3,526	11,835	15,146	9,795	2,596	138	82	49	100	102
Water Year Types[b]												
Wet (32%)	126	876	9,209	32,670	38,424	25,168	6,953	229	118	48	143	110
Above Normal (15%)	38	159	1,772	7,913	14,188	10,281	1,450	183	66	48	95	65
Below Normal (17%)	50	35	1,505	961	2,539	631	563	67	66	48	114	86
Dry (22%)	121	69	343	500	1,821	729	308	77	67	48	62	76
Critical (15%)	44	27	98	306	363	292	107	68	64	55	54	182

Alternative 4 H4 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	175	575	12,166	41,101	56,075	28,990	10,307	182	168	48	174	303
20%	162	245	5,849	16,620	23,160	12,367	6,705	177	168	48	55	213
30%	160	150	1,971	8,207	12,317	8,476	4,128	172	168	48	55	159
40%	154	117	876	4,700	9,158	4,682	2,758	169	168	48	55	159
50%	146	109	508	2,083	4,900	2,961	1,792	167	167	48	55	159
60%	142	105	230	1,016	2,445	1,344	330	164	167	48	55	159
70%	136	101	145	473	690	569	239	162	166	48	55	158
80%	118	100	102	144	276	228	211	158	164	48	55	156
90%	109	100	100	106	122	149	178	153	162	48	54	152
Long Term												
Full Simulation Period[a]	187	415	4,565	13,358	16,938	11,398	4,161	238	181	48	101	205
Water Year Types[b]												
Wet (32%)	225	966	11,882	35,046	40,379	27,368	9,703	329	214	48	147	263
Above Normal (15%)	141	206	2,034	9,867	17,535	12,930	3,929	283	166	48	95	198
Below Normal (17%)	147	133	1,863	2,718	4,974	1,901	1,911	167	166	48	114	185
Dry (22%)	225	169	675	1,071	2,728	1,830	692	177	167	48	62	165
Critical (15%)	141	127	229	703	825	697	213	168	164	48	54	167

Alternative 4 H4 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	101	100	3,752	4,549	3,090	2,574	3,147	100	100	0	0	36
20%	100	100	3,072	2,175	**-1,390**	2,465	3,502	100	100	0	0	79
30%	99	100	1,174	3,402	3,630	4,010	3,493	100	100	0	0	100
40%	99	92	549	2,695	4,168	2,656	2,528	100	100	0	0	100
50%	96	100	371	1,600	2,706	2,159	1,653	100	100	0	0	100
60%	100	99	170	773	1,835	1,115	215	100	100	0	0	100
70%	104	99	125	394	462	480	144	100	100	0	0	100
80%	101	100	102	102	211	183	133	100	100	0	0	100
90%	103	100	100	106	119	142	123	100	100	0	0	100
Long Term												
Full Simulation Period[a]	100	89	1,039	1,523	1,792	1,603	1,565	100	99	**-1**	1	102
Water Year Types[b]												
Wet (32%)	99	90	2,673	2,377	1,955	2,200	2,750	100	96	0	4	153
Above Normal (15%)	103	47	262	1,954	3,346	2,649	2,479	100	100	0	0	133
Below Normal (17%)	98	99	359	1,757	2,435	1,270	1,348	100	100	0	0	99
Dry (22%)	104	100	333	571	907	1,101	384	100	100	0	0	89
Critical (15%)	98	100	131	397	462	404	106	100	100	**-7**	0	**-15**

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-22-21. Yolo Bypass, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	74	475	8,414	36,552	52,985	26,415	7,160	82	68	48	174	266
20%	63	145	2,777	14,445	24,550	9,902	3,203	77	68	48	55	134
30%	60	50	797	4,805	8,687	4,466	635	72	68	48	55	59
40%	54	25	328	2,005	4,990	2,026	229	69	68	48	55	59
50%	49	9	137	482	2,195	802	139	67	67	48	55	59
60%	43	6	60	243	609	229	114	64	67	48	55	59
70%	32	2	20	79	228	90	95	62	66	48	55	58
80%	17	0	0	42	65	45	78	58	64	48	55	56
90%	6	0	0	0	4	7	56	53	62	48	54	52
Long Term												
Full Simulation Period[a]	87	326	3,526	11,835	15,146	9,795	2,596	138	82	49	100	102
Water Year Types[b]												
Wet (32%)	126	876	9,209	32,670	38,424	25,168	6,953	229	118	48	143	110
Above Normal (15%)	38	159	1,772	7,913	14,188	10,281	1,450	183	66	48	95	65
Below Normal (17%)	50	35	1,505	961	2,539	631	563	67	66	48	114	86
Dry (22%)	121	69	343	500	1,821	729	308	77	67	48	62	76
Critical (15%)	44	27	98	306	363	292	107	68	64	55	54	182

Alternative 5 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	183	575	11,396	33,063	56,240	28,967	10,301	182	168	48	162	362
20%	163	245	5,857	16,596	27,010	12,365	6,881	177	168	48	55	225
30%	161	150	1,907	8,207	12,336	8,970	2,248	172	168	48	55	159
40%	154	120	775	4,692	8,008	4,754	506	169	168	48	55	159
50%	149	109	483	1,909	4,895	2,942	275	167	167	48	55	159
60%	141	106	264	1,009	2,258	1,236	239	164	167	48	55	159
70%	129	101	158	471	691	626	211	162	166	48	55	158
80%	116	100	110	186	332	228	189	158	164	48	55	156
90%	105	100	100	115	139	149	173	153	162	48	54	152
Long Term												
Full Simulation Period[a]	188	408	4,397	12,975	16,912	11,406	3,623	237	181	48	100	207
Water Year Types[b]												
Wet (32%)	225	944	11,508	34,102	41,053	27,262	9,059	328	214	48	147	261
Above Normal (15%)	139	202	2,060	9,399	16,733	13,335	2,906	283	166	48	95	165
Below Normal (17%)	145	138	1,548	2,608	4,257	1,833	1,082	167	166	48	106	185
Dry (22%)	230	168	677	1,085	2,730	1,800	497	177	167	48	60	165
Critical (15%)	145	127	229	704	823	695	216	168	164	48	54	222

Alternative 5 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	108	100	2,982	**-3,489**	3,255	2,551	3,141	100	100	0	**-12**	95
20%	100	100	3,080	2,151	2,460	2,463	3,678	100	100	0	0	92
30%	100	100	1,110	3,402	3,649	4,504	1,613	100	100	0	0	100
40%	100	95	448	2,687	3,018	2,728	277	100	100	0	0	100
50%	100	100	346	1,427	2,700	2,141	136	100	100	0	0	100
60%	98	99	204	766	1,649	1,006	124	100	100	0	0	100
70%	97	100	138	393	463	536	117	100	100	0	0	100
80%	99	100	110	145	267	183	110	100	100	0	0	100
90%	99	100	100	115	136	142	117	100	100	0	0	100
Long Term												
Full Simulation Period[a]	101	82	871	1,140	1,766	1,610	1,027	100	99	**-1**	**0**	105
Water Year Types[b]												
Wet (32%)	99	68	2,300	1,433	2,629	2,094	2,106	99	96	0	4	151
Above Normal (15%)	101	43	288	1,486	2,545	3,055	1,456	100	100	0	0	100
Below Normal (17%)	95	103	43	1,647	1,718	1,202	519	100	100	0	**-7**	99
Dry (22%)	109	98	334	585	909	1,071	189	100	100	0	**-2**	89
Critical (15%)	101	100	132	399	460	403	110	100	100	**-7**	0	40

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-22-22. Yolo Bypass, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	74	475	8,414	36,552	52,985	26,415	7,160	82	68	48	174	266
20%	63	145	2,777	14,445	24,550	9,902	3,203	77	68	48	55	134
30%	60	50	797	4,805	8,687	4,466	635	72	68	48	55	59
40%	54	25	328	2,005	4,990	2,026	229	69	68	48	55	59
50%	49	9	137	482	2,195	802	139	67	67	48	55	59
60%	43	6	60	243	609	229	114	64	67	48	55	59
70%	32	2	20	79	228	90	95	62	66	48	55	58
80%	17	0	0	42	65	45	78	58	64	48	55	56
90%	6	0	0	0	4	7	56	53	62	48	54	52
Long Term												
Full Simulation Period[a]	87	326	3,526	11,835	15,146	9,795	2,596	138	82	49	100	102
Water Year Types[b]												
Wet (32%)	126	876	9,209	32,670	38,424	25,168	6,953	229	118	48	143	110
Above Normal (15%)	38	159	1,772	7,913	14,188	10,281	1,450	183	66	48	95	65
Below Normal (17%)	50	35	1,505	961	2,539	631	563	67	66	48	114	86
Dry (22%)	121	69	343	500	1,821	729	308	77	67	48	62	76
Critical (15%)	44	27	98	306	363	292	107	68	64	55	54	182

Alternative 6A,6B,6C (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	164	575	12,988	35,013	55,118	27,843	10,558	182	168	48	379	338
20%	162	249	6,294	18,301	25,986	12,368	6,870	177	168	48	55	185
30%	159	161	2,298	8,631	12,668	8,999	2,244	172	168	48	55	159
40%	153	136	749	4,706	9,408	4,934	506	169	168	48	55	159
50%	146	123	466	2,082	5,040	2,808	267	167	167	48	55	159
60%	142	110	231	975	2,704	1,547	232	164	167	48	55	159
70%	136	107	142	472	573	658	211	162	166	48	55	158
80%	118	103	109	146	289	224	187	158	164	48	55	156
90%	106	100	100	102	129	148	173	153	162	48	54	152
Long Term												
Full Simulation Period[a]	192	427	4,883	14,094	17,243	11,517	3,645	239	181	49	116	192
Water Year Types[b]												
Wet (32%)	244	993	12,855	36,918	41,066	27,432	9,141	333	214	48	147	210
Above Normal (15%)	134	218	2,429	10,844	17,957	13,598	2,908	283	166	48	95	165
Below Normal (17%)	147	144	1,585	2,606	5,082	1,864	1,070	167	166	48	114	209
Dry (22%)	225	169	672	1,166	2,748	1,867	491	177	167	48	57	182
Critical (15%)	141	129	229	688	847	694	213	168	164	56	164	179

Alternative 6A,6B,6C (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	90	100	4,573	**-1,540**	2,133	1,428	3,397	100	100	0	205	72
20%	99	104	3,518	3,857	1,436	2,466	3,667	100	100	0	0	51
30%	99	111	1,500	3,826	3,981	4,532	1,609	100	100	0	0	100
40%	99	111	421	2,701	4,418	2,908	277	100	100	0	0	100
50%	96	114	330	1,600	2,846	2,006	128	100	100	0	0	100
60%	100	103	172	731	2,094	1,318	118	100	100	0	0	100
70%	104	105	122	393	346	568	117	100	100	0	0	100
80%	101	103	109	104	223	179	109	100	100	0	0	100
90%	100	100	100	102	125	141	117	100	100	0	0	100
Long Term												
Full Simulation Period[a]	105	101	1,358	2,259	2,098	1,722	1,049	101	99	0	16	90
Water Year Types[b]												
Wet (32%)	118	118	3,646	4,248	2,642	2,264	2,187	104	96	0	4	100
Above Normal (15%)	96	59	657	2,930	3,768	3,317	1,457	100	100	0	0	100
Below Normal (17%)	97	109	81	1,645	2,543	1,233	507	100	100	0	0	124
Dry (22%)	104	100	330	666	927	1,137	183	100	100	0	**-5**	106
Critical (15%)	98	102	131	382	484	402	106	100	100	1	109	**-3**

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-22-23. Yolo Bypass, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	74	475	8,414	36,552	52,985	26,415	7,160	82	68	48	174	266
20%	63	145	2,777	14,445	24,550	9,902	3,203	77	68	48	55	134
30%	60	50	797	4,805	8,687	4,466	635	72	68	48	55	59
40%	54	25	328	2,005	4,990	2,026	229	69	68	48	55	59
50%	49	9	137	482	2,195	802	139	67	67	48	55	59
60%	43	6	60	243	609	229	114	64	67	48	55	59
70%	32	2	20	79	228	90	95	62	66	48	55	58
80%	17	0	0	42	65	45	78	58	64	48	55	56
90%	6	0	0	0	4	7	56	53	62	48	54	52
Long Term												
Full Simulation Period[a]	87	326	3,526	11,835	15,146	9,795	2,596	138	82	49	100	102
Water Year Types[b]												
Wet (32%)	126	876	9,209	32,670	38,424	25,168	6,953	229	118	48	143	110
Above Normal (15%)	38	159	1,772	7,913	14,188	10,281	1,450	183	66	48	95	65
Below Normal (17%)	50	35	1,505	961	2,539	631	563	67	66	48	114	86
Dry (22%)	121	69	343	500	1,821	729	308	77	67	48	62	76
Critical (15%)	44	27	98	306	363	292	107	68	64	55	54	182

Alternative 7 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	98	475	12,200	33,507	56,209	27,464	8,567	82	68	48	288	266
20%	63	149	6,786	17,732	26,475	13,013	5,726	77	68	48	55	138
30%	61	61	1,935	9,372	13,345	9,112	2,244	72	68	48	55	60
40%	54	36	728	5,260	10,012	5,786	406	69	68	48	55	59
50%	49	23	413	2,247	5,665	3,061	172	67	67	48	55	59
60%	43	10	148	946	2,849	1,406	126	64	67	48	55	59
70%	37	7	42	376	812	587	111	62	66	48	55	58
80%	19	5	6	55	247	205	86	58	64	48	55	56
90%	9	0	0	6	50	48	73	53	62	48	54	53
Long Term												
Full Simulation Period[a]	90	334	4,859	13,876	17,588	11,660	3,167	139	81	49	107	108
Water Year Types[b]												
Wet (32%)	126	916	12,697	36,039	41,779	27,688	8,040	233	114	48	147	162
Above Normal (15%)	47	113	2,828	11,091	18,152	13,749	2,551	183	66	48	95	65
Below Normal (17%)	54	44	1,545	2,875	5,496	2,073	813	67	66	48	106	85
Dry (22%)	125	71	619	1,095	2,820	1,908	404	77	67	48	59	68
Critical (15%)	46	29	132	646	872	657	113	68	64	56	106	123

Alternative 7 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	24	0	3,786	**-3,046**	3,224	1,048	1,407	0	0	0	115	0
20%	0	4	4,009	3,288	1,925	3,111	2,523	0	0	0	0	5
30%	1	11	1,138	4,568	4,658	4,646	1,609	0	0	0	0	0
40%	0	11	400	3,255	5,022	3,761	177	0	0	0	0	0
50%	0	14	277	1,765	3,471	2,259	33	0	0	0	0	0
60%	1	3	89	703	2,240	1,177	12	0	0	0	0	0
70%	5	5	22	298	585	498	16	0	0	0	0	0
80%	2	5	6	13	181	160	8	**0**	0	0	0	1
90%	3	0	0	6	46	41	17	0	0	0	0	1
Long Term												
Full Simulation Period[a]	3	8	1,333	2,041	2,442	1,865	570	1	**-1**	0	7	6
Water Year Types[b]												
Wet (32%)	**-1**	40	3,488	3,369	3,356	2,520	1,086	4	**-4**	0	4	52
Above Normal (15%)	9	**-46**	1,056	3,178	3,964	3,468	1,100	0	0	0	0	0
Below Normal (17%)	4	9	41	1,914	2,957	1,442	250	0	0	0	**-7**	**-1**
Dry (22%)	4	2	277	595	999	1,179	96	0	0	0	**-3**	**-8**
Critical (15%)	2	2	34	340	509	364	7	0	0	1	52	**-59**

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-22-24. Yolo Bypass, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	74	475	8,414	36,552	52,985	26,415	7,160	82	68	48	174	266
20%	63	145	2,777	14,445	24,550	9,902	3,203	77	68	48	55	134
30%	60	50	797	4,805	8,687	4,466	635	72	68	48	55	59
40%	54	25	328	2,005	4,990	2,026	229	69	68	48	55	59
50%	49	9	137	482	2,195	802	139	67	67	48	55	59
60%	43	6	60	243	609	229	114	64	67	48	55	59
70%	32	2	20	79	228	90	95	62	66	48	55	58
80%	17	0	0	42	65	45	78	58	64	48	55	56
90%	6	0	0	0	4	7	56	53	62	48	54	52
Long Term												
Full Simulation Period[a]	87	326	3,526	11,835	15,146	9,795	2,596	138	82	49	100	102
Water Year Types[b]												
Wet (32%)	126	876	9,209	32,670	38,424	25,168	6,953	229	118	48	143	110
Above Normal (15%)	38	159	1,772	7,913	14,188	10,281	1,450	183	66	48	95	65
Below Normal (17%)	50	35	1,505	961	2,539	631	563	67	66	48	114	86
Dry (22%)	121	69	343	500	1,821	729	308	77	67	48	62	76
Critical (15%)	44	27	98	306	363	292	107	68	64	55	54	182

Alternative 8 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	76	475	11,757	44,983	55,416	27,671	9,904	289	632	678	536	161
20%	63	149	6,240	19,636	25,014	12,897	6,207	78	336	255	211	69
30%	60	51	1,914	10,688	14,167	10,655	3,856	73	68	48	55	59
40%	54	36	646	5,747	10,750	6,381	2,279	70	68	48	55	59
50%	49	23	353	3,278	6,893	4,911	883	67	68	48	55	59
60%	43	10	147	1,591	4,079	3,063	535	64	68	48	55	59
70%	38	7	42	445	1,740	1,514	270	63	67	48	55	58
80%	23	5	9	115	420	451	150	59	66	48	55	55
90%	11	0	0	6	79	85	110	53	63	48	55	52
Long Term												
Full Simulation Period[a]	88	284	4,778	14,874	17,577	12,241	3,995	178	192	175	156	89
Water Year Types[b]												
Wet (32%)	124	759	12,772	38,226	40,842	27,901	8,857	298	114	48	189	95
Above Normal (15%)	40	108	1,935	12,032	17,986	13,715	4,078	222	102	106	211	65
Below Normal (17%)	55	44	1,731	3,461	5,971	3,411	2,083	122	108	357	263	85
Dry (22%)	125	71	597	1,320	3,820	3,274	955	77	401	181	57	76
Critical (15%)	41	29	125	763	936	590	169	87	233	298	54	124

Alternative 8 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2	0	3,343	8,431	2,431	1,256	2,744	208	564	630	362	**-105**
20%	0	4	3,464	5,191	464	2,995	3,003	1	268	207	156	**-64**
30%	0	1	1,117	5,883	5,480	6,189	3,221	1	0	0	0	**0**
40%	**0**	11	318	3,742	5,759	4,355	2,050	0	0	0	0	0
50%	0	14	216	2,796	4,698	4,110	744	0	1	0	0	0
60%	1	3	88	1,348	3,470	2,834	420	0	1	0	0	**0**
70%	6	5	22	366	1,513	1,425	175	0	1	0	0	**0**
80%	6	5	9	74	354	406	72	0	1	0	0	**0**
90%	5	0	0	6	75	79	54	0	0	0	1	0
Long Term												
Full Simulation Period[a]	1	**-42**	1,252	3,038	2,431	2,446	1,399	40	109	126	56	**-13**
Water Year Types[b]												
Wet (32%)	**-2**	**-116**	3,564	5,556	2,418	2,733	1,903	69	**-4**	0	46	**-14**
Above Normal (15%)	2	**-51**	163	4,119	3,798	3,435	2,628	39	35	58	116	**0**
Below Normal (17%)	5	9	226	2,500	3,432	2,780	1,520	55	42	309	149	**-1**
Dry (22%)	4	2	255	820	1,999	2,545	647	0	334	133	**-5**	1
Critical (15%)	**-2**	2	27	457	572	298	62	19	169	242	0	**-58**

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-22-25. Yolo Bypass, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	74	475	8,414	36,552	52,985	26,415	7,160	82	68	48	174	266
20%	63	145	2,777	14,445	24,550	9,902	3,203	77	68	48	55	134
30%	60	50	797	4,805	8,687	4,466	635	72	68	48	55	59
40%	54	25	328	2,005	4,990	2,026	229	69	68	48	55	59
50%	49	9	137	482	2,195	802	139	67	67	48	55	59
60%	43	6	60	243	609	229	114	64	67	48	55	59
70%	32	2	20	79	228	90	95	62	66	48	55	58
80%	17	0	0	42	65	45	78	58	64	48	55	56
90%	6	0	0	0	4	7	56	53	62	48	54	52
Long Term												
Full Simulation Period[a]	87	326	3,526	11,835	15,146	9,795	2,596	138	82	49	100	102
Water Year Types[b]												
Wet (32%)	126	876	9,209	32,670	38,424	25,168	6,953	229	118	48	143	110
Above Normal (15%)	38	159	1,772	7,913	14,188	10,281	1,450	183	66	48	95	65
Below Normal (17%)	50	35	1,505	961	2,539	631	563	67	66	48	114	86
Dry (22%)	121	69	343	500	1,821	729	308	77	67	48	62	76
Critical (15%)	44	27	98	306	363	292	107	68	64	55	54	182

Alternative 9 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	164	575	10,940	37,360	55,359	27,022	10,301	182	168	48	163	366
20%	162	245	5,815	16,584	24,435	12,365	6,756	177	168	48	55	248
30%	160	150	1,588	8,180	12,172	8,760	2,203	172	168	48	55	163
40%	154	129	733	4,678	8,130	4,681	506	169	168	48	55	159
50%	146	110	468	1,908	4,897	2,845	263	167	167	48	55	159
60%	140	107	228	970	2,128	1,206	239	164	167	48	55	159
70%	129	105	149	472	692	622	210	162	166	48	55	158
80%	116	100	110	145	240	253	187	158	164	48	55	156
90%	105	100	100	103	122	149	173	153	162	48	54	153
Long Term												
Full Simulation Period[a]	186	427	4,325	13,284	16,579	11,238	3,611	237	181	48	94	211
Water Year Types[b]												
Wet (32%)	224	996	11,010	34,846	40,006	27,026	9,043	328	214	48	136	264
Above Normal (15%)	138	215	2,294	9,928	16,168	12,628	2,888	283	166	48	87	165
Below Normal (17%)	142	137	1,863	2,616	4,750	1,857	1,073	167	166	48	99	185
Dry (22%)	222	171	668	1,073	2,725	1,833	487	177	167	48	60	171
Critical (15%)	145	127	227	687	816	695	214	168	164	48	57	234

Alternative 9 (LLT) minus No Action Alternative (LLT)

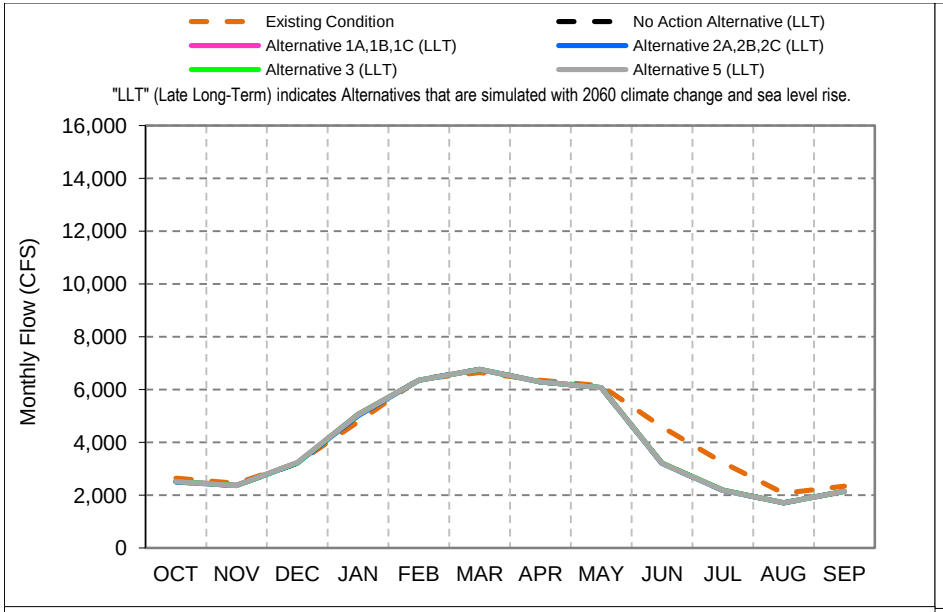
	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	90	100	2,525	807	2,374	607	3,141	100	100	0	-11	100
20%	100	100	3,038	2,139	-115	2,463	3,553	100	100	0	0	115
30%	99	100	790	3,375	3,485	4,293	1,568	100	100	0	0	104
40%	99	104	405	2,673	3,140	2,655	277	100	100	0	0	100
50%	96	101	331	1,426	2,702	2,043	124	100	100	0	0	100
60%	97	101	169	727	1,518	976	124	100	100	0	0	100
70%	97	103	129	393	464	533	115	100	100	0	0	100
80%	99	100	110	103	174	208	109	100	100	0	0	101
90%	99	100	100	103	119	142	117	100	100	0	0	101
Long Term												
Full Simulation Period[a]	98	101	799	1,449	1,434	1,443	1,015	100	99	-1	-6	109
Water Year Types[b]												
Wet (32%)	98	121	1,801	2,176	1,582	1,858	2,090	99	96	0	-7	154
Above Normal (15%)	100	56	522	2,015	1,979	2,348	1,438	100	100	0	-8	100
Below Normal (17%)	92	102	359	1,655	2,211	1,226	510	100	100	0	-14	99
Dry (22%)	101	102	326	573	904	1,103	179	100	100	0	-1	95
Critical (15%)	101	100	130	382	453	403	108	100	100	-7	3	52

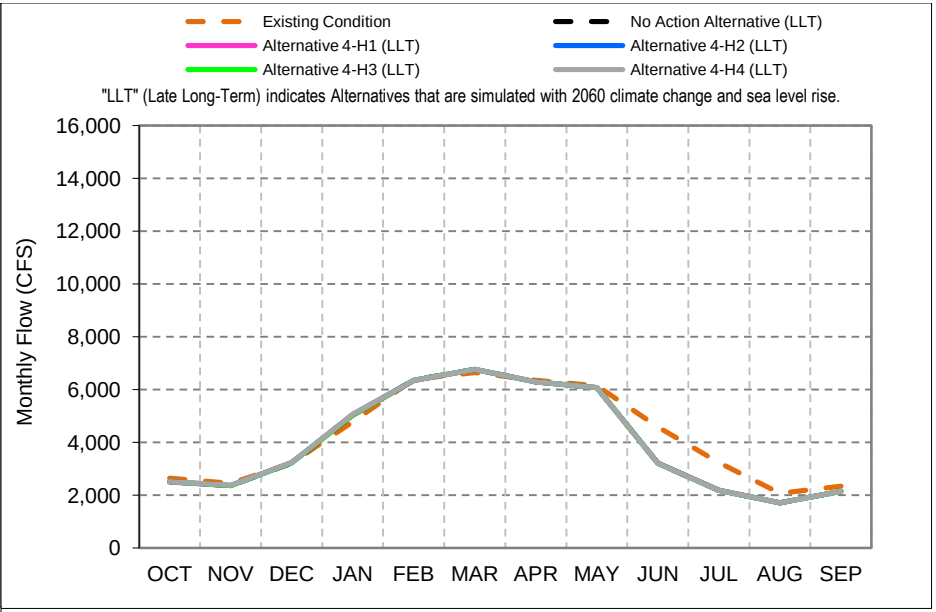
Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

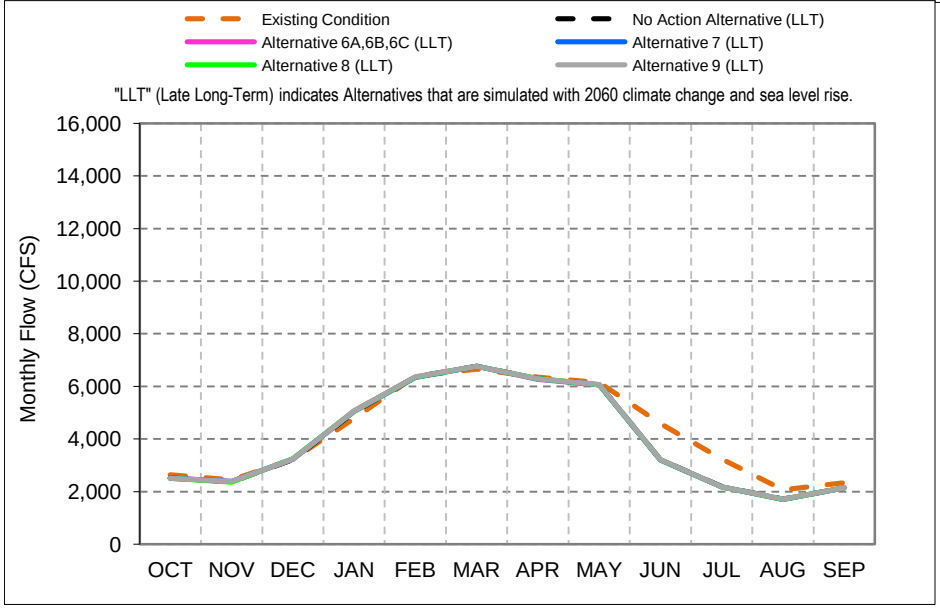
a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

C.23. San Joaquin River Flow at Vernalis



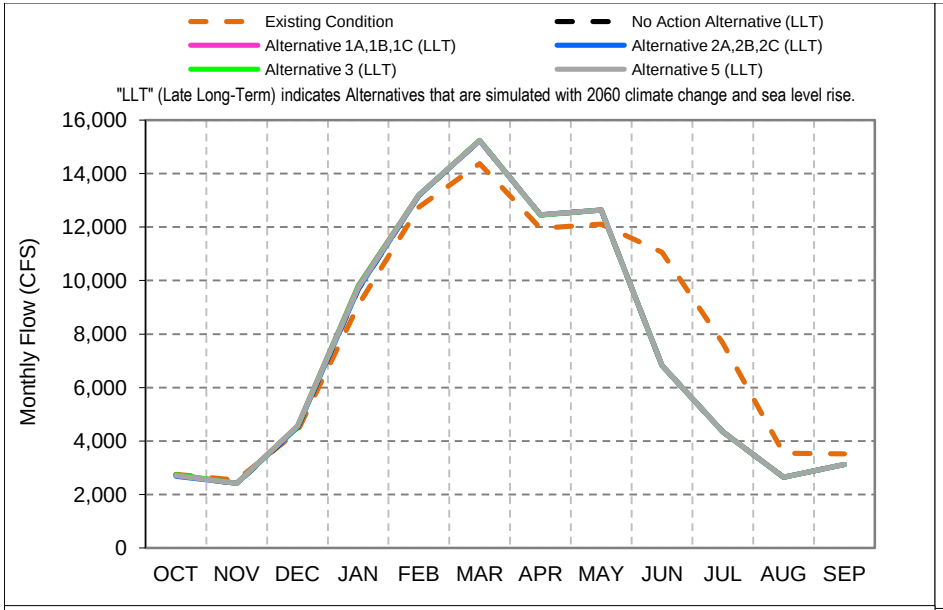


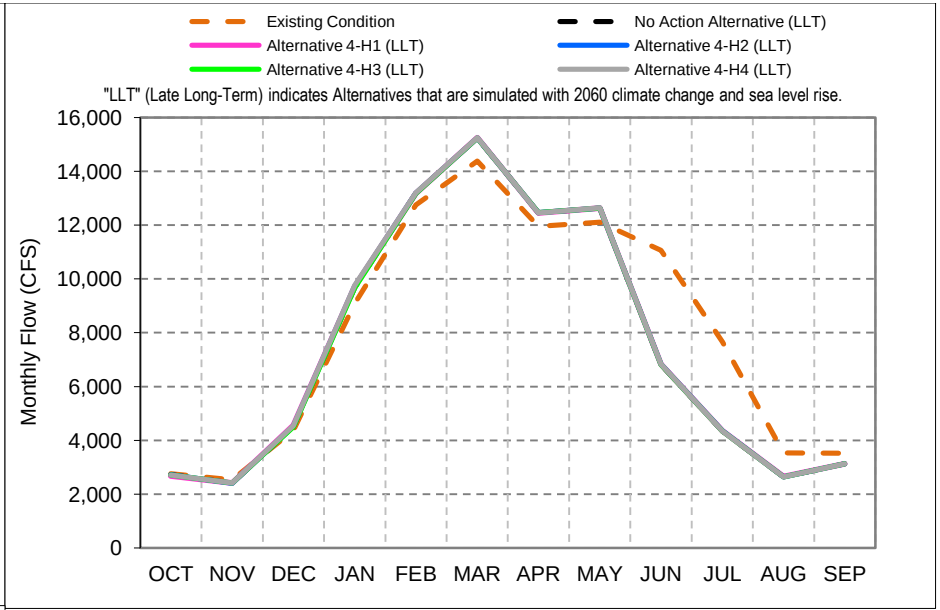


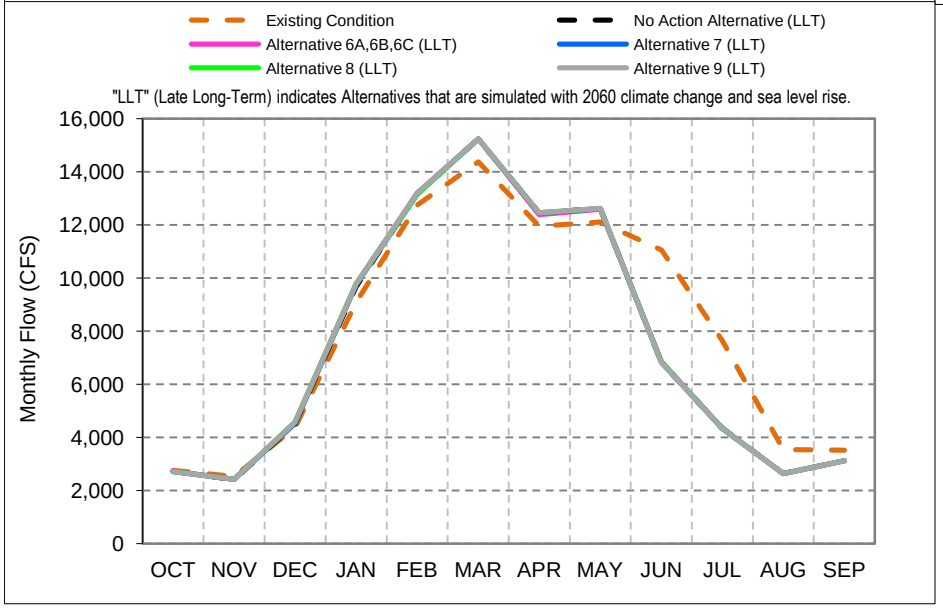
Alternative 4 Scenario Definitions:

H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

Figure C-23-1. San Joaquin River at Vernalis, Long-Term Average Flow





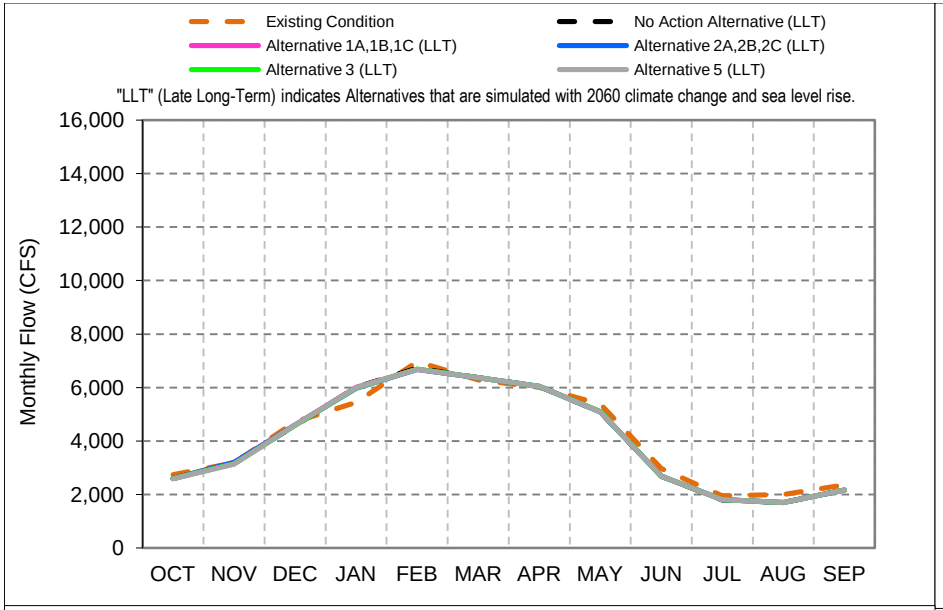


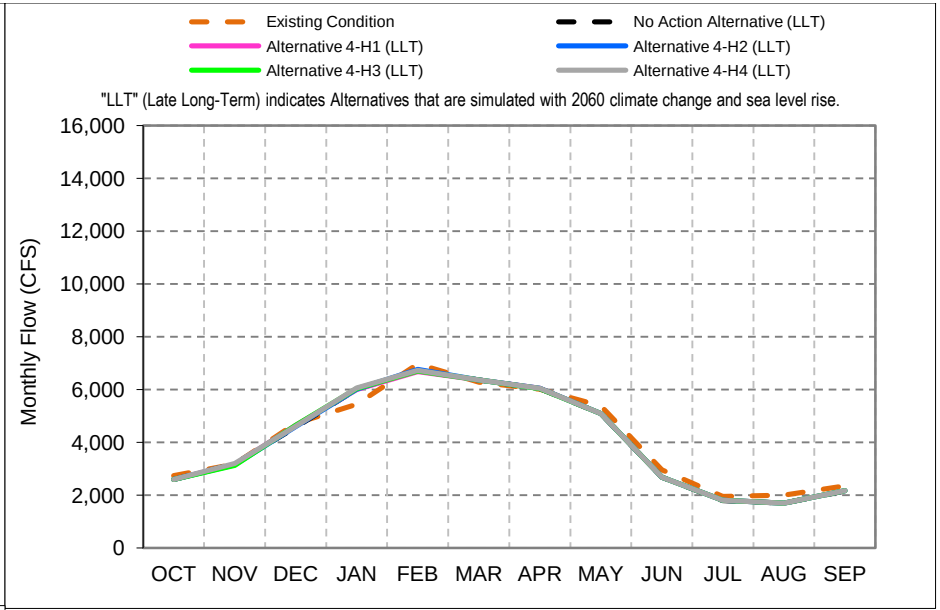
Alternative 4 Scenario Definitions:

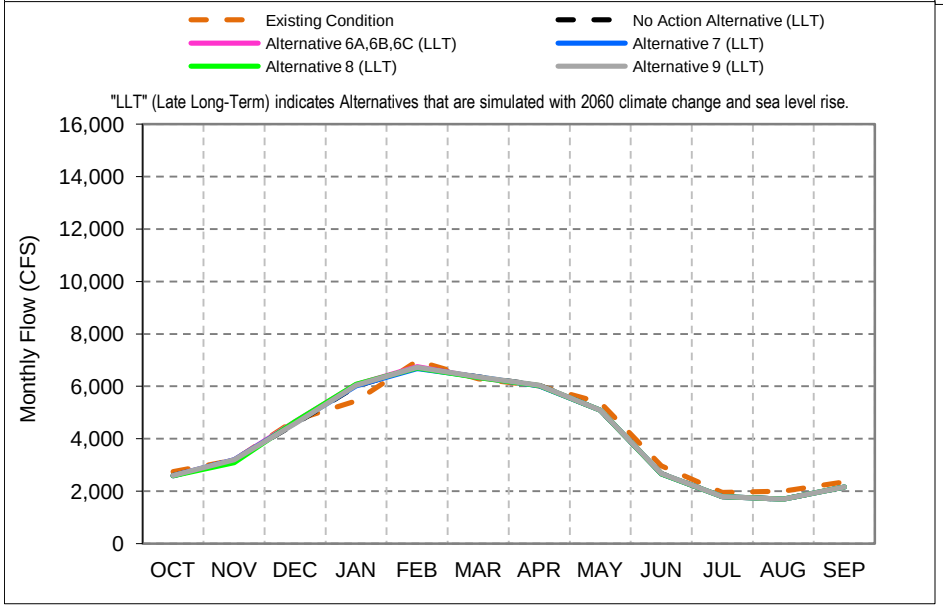
H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

*As defined by the San Joaquin River Basin 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-23-2. San Joaquin River at Vernalis, Wet Year* Average Flow





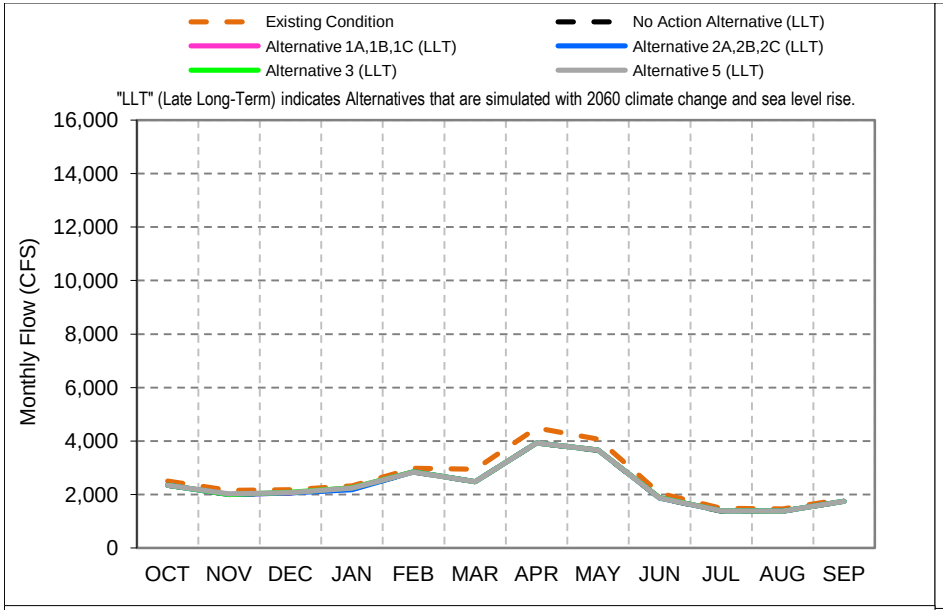


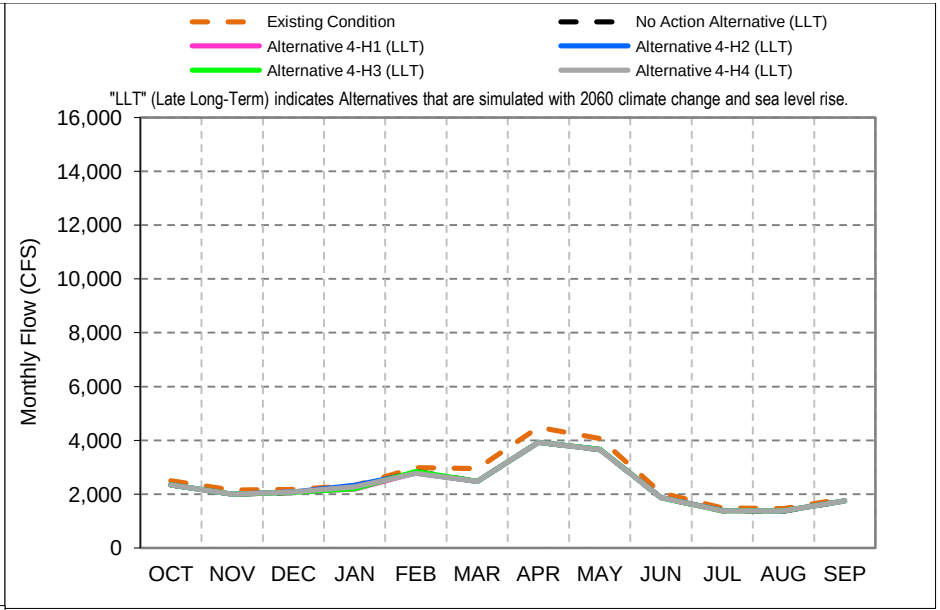
Alternative 4 Scenario Definitions:

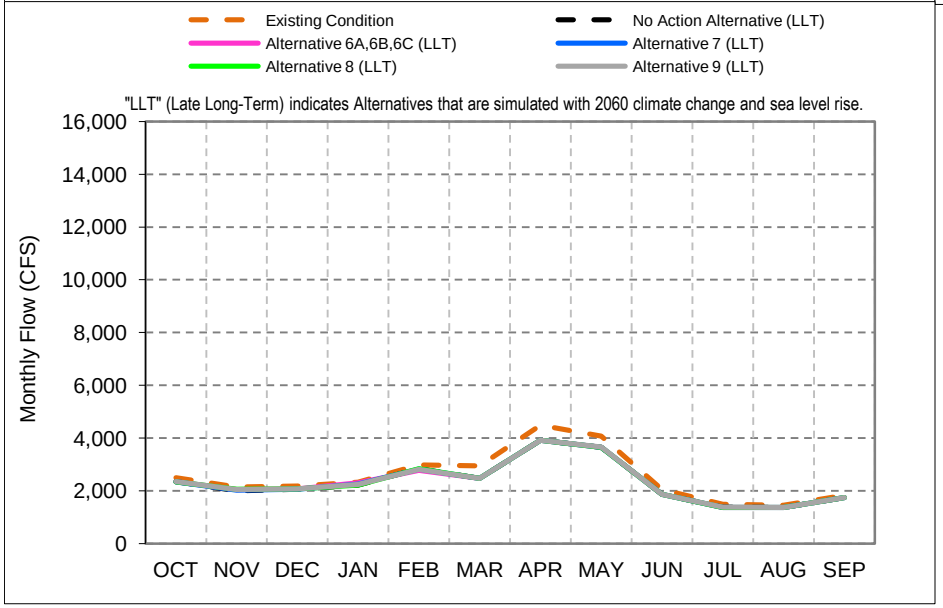
H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

*As defined by the San Joaquin River Basin 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-23-3. San Joaquin River at Vernalis, Above Normal Year* Average Flow





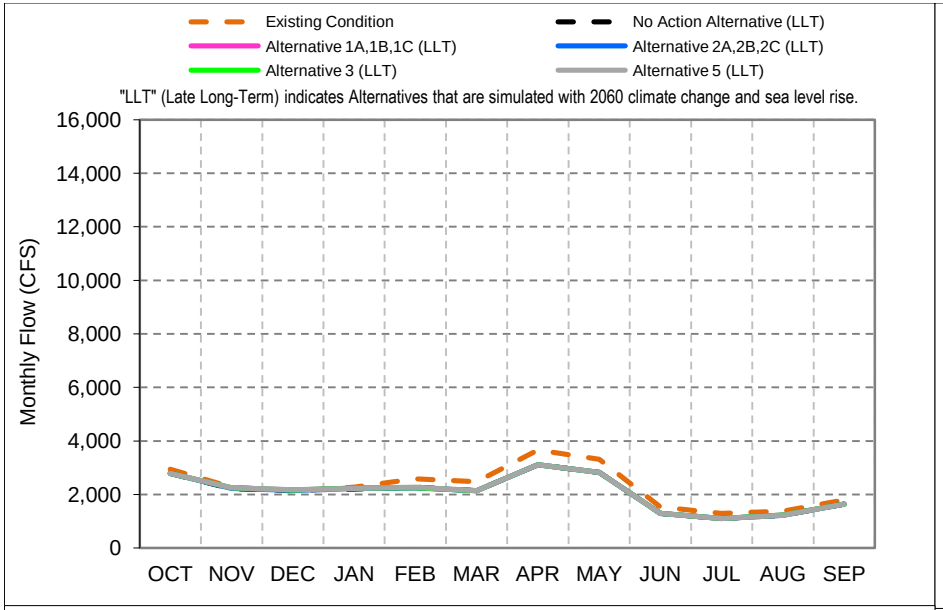


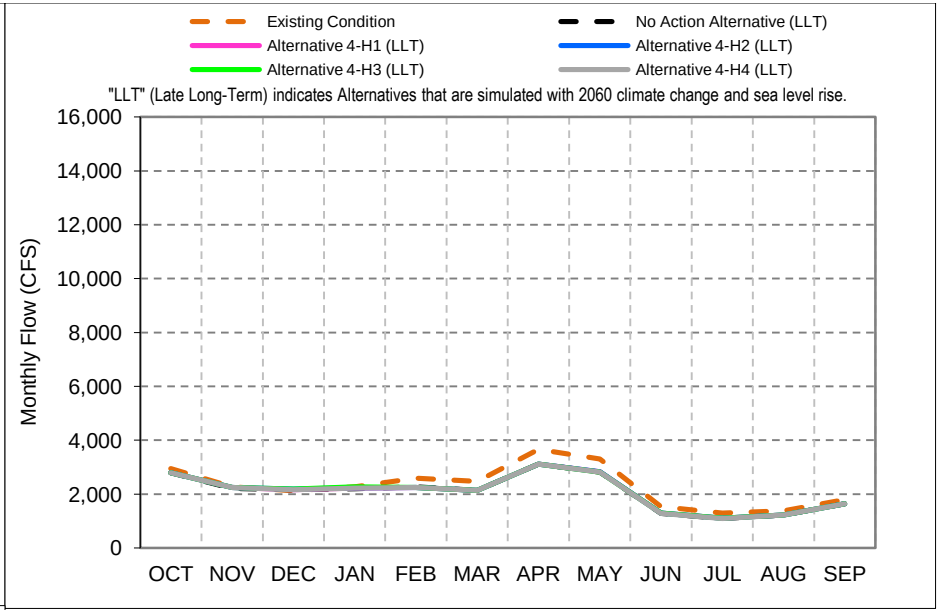
Alternative 4 Scenario Definitions:

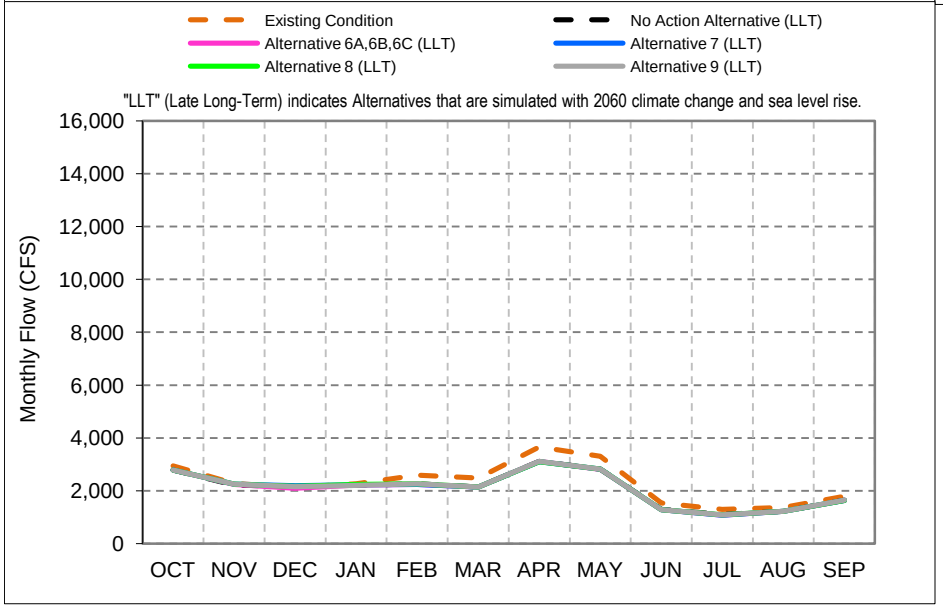
H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

*As defined by the San Joaquin River Basin 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-23-4. San Joaquin River at Vernalis, Below Normal Year* Average Flow





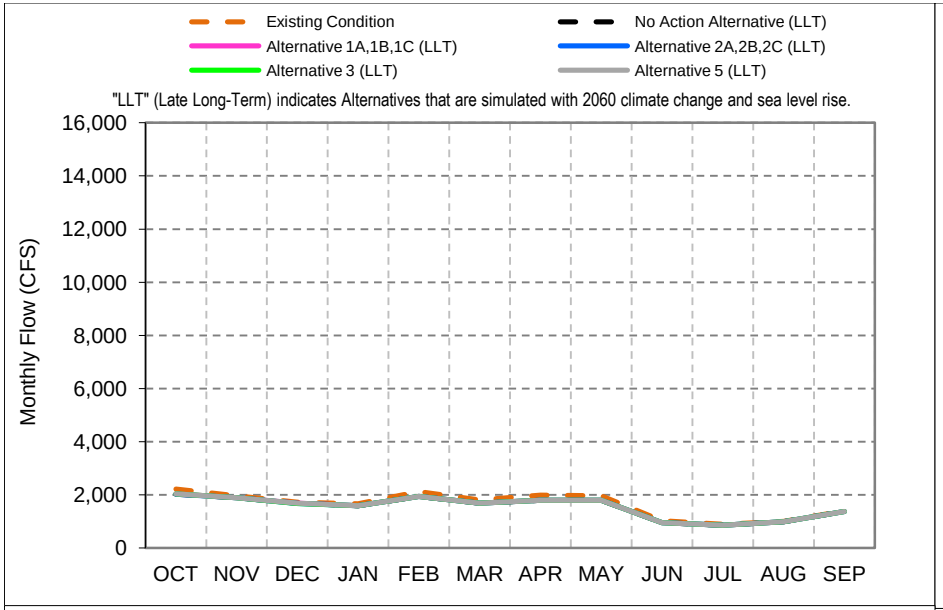


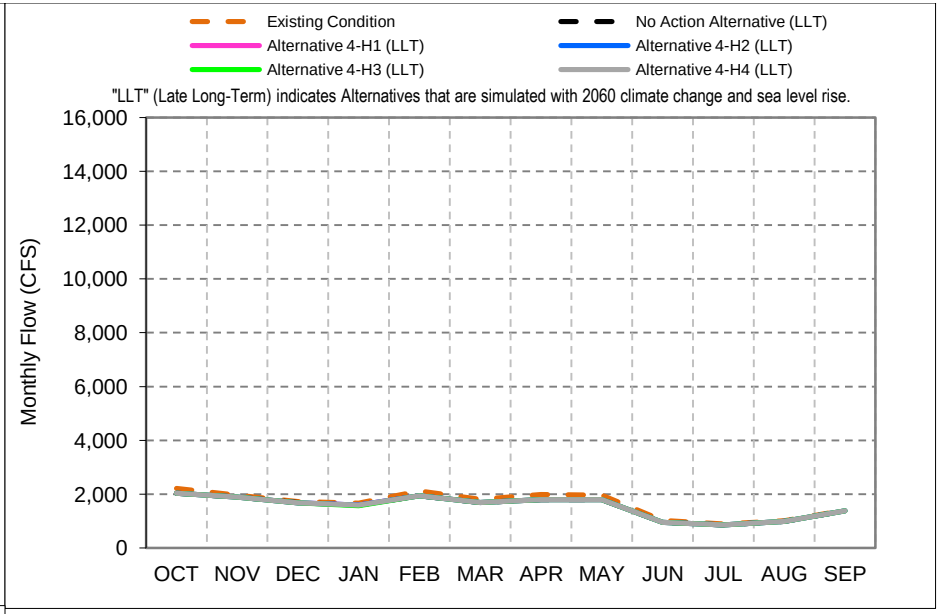
Alternative 4 Scenario Definitions:

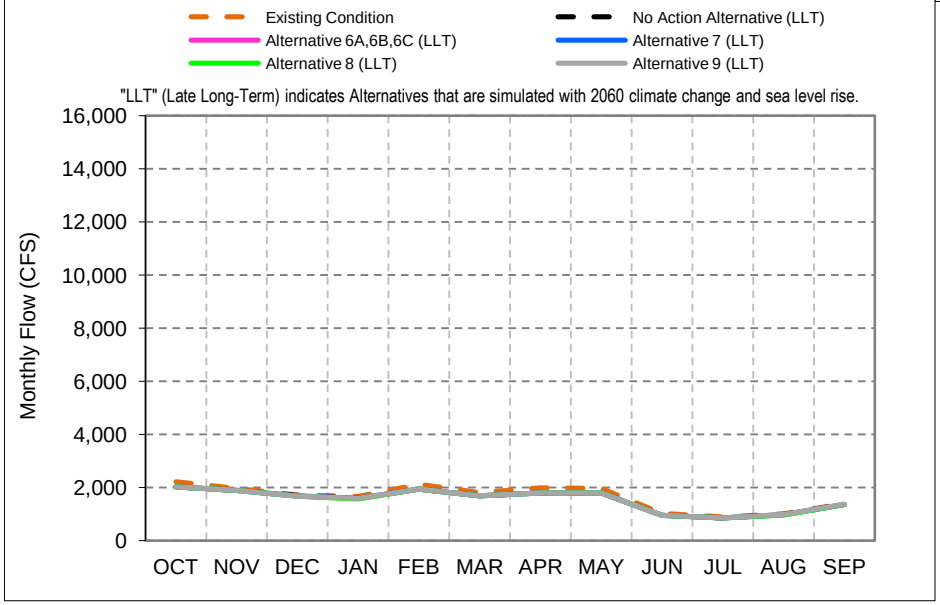
H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

*As defined by the San Joaquin River Basin 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-23-5. San Joaquin River at Vernalis, Dry Year* Average Flow







Alternative 4 Scenario Definitions:

H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

*As defined by the San Joaquin River Basin 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-23-6. San Joaquin River at Vernalis, Critical Year* Average Flow

Table C-23-1. San Joaquin River at Vernalis, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,596	2,902	4,363	9,686	15,593	14,474	12,960	13,526	11,935	7,289	3,181	3,312
20%	3,175	2,595	2,845	5,116	9,547	9,119	7,803	7,669	7,050	3,664	2,833	2,804
30%	2,975	2,399	2,319	3,273	6,158	7,611	6,570	5,613	3,351	2,124	2,400	2,557
40%	2,807	2,243	2,143	2,481	4,405	5,894	5,677	5,175	2,892	1,847	1,775	2,277
50%	2,546	2,071	2,064	2,396	3,477	3,225	5,220	4,372	2,367	1,641	1,541	1,961
60%	2,314	1,981	1,983	2,200	2,503	2,717	4,194	3,780	1,861	1,439	1,454	1,854
70%	2,196	1,876	1,863	2,071	2,354	2,293	3,429	3,293	1,529	1,287	1,367	1,770
80%	2,049	1,769	1,795	1,803	2,274	2,110	2,608	2,585	1,420	1,184	1,267	1,687
90%	1,644	1,637	1,636	1,625	2,154	1,838	2,043	1,941	1,077	956	1,086	1,489
Long Term												
Full Simulation Period[a]	2,639	2,448	3,219	4,777	6,388	6,648	6,351	6,148	4,583	3,239	2,072	2,338
Water Year Types[b]												
Wet (32%)	2,760	2,534	4,370	9,089	12,750	14,374	11,955	12,109	11,058	7,654	3,539	3,519
Above Normal (15%)	2,745	3,182	4,711	5,447	6,965	6,284	6,014	5,381	2,965	1,958	2,000	2,355
Below Normal (17%)	2,502	2,150	2,182	2,326	2,983	2,949	4,490	4,074	2,051	1,491	1,460	1,829
Dry (22%)	2,945	2,272	2,129	2,270	2,590	2,479	3,656	3,308	1,537	1,295	1,375	1,796
Critical (15%)	2,213	1,968	1,729	1,667	2,120	1,813	1,983	1,964	1,020	898	1,007	1,402

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,313	2,812	4,087	10,918	15,352	15,914	14,360	13,477	5,717	4,146	2,716	3,124
20%	2,932	2,406	2,806	4,719	8,794	8,835	8,640	6,693	3,981	2,461	2,155	2,521
30%	2,830	2,231	2,392	3,187	6,061	7,433	6,513	5,338	3,077	1,968	1,807	2,252
40%	2,689	2,128	2,138	2,637	4,880	4,228	5,560	5,089	2,542	1,779	1,634	2,079
50%	2,439	1,994	2,070	2,371	3,296	2,861	4,882	4,511	2,180	1,506	1,492	1,893
60%	2,179	1,929	1,957	2,298	2,496	2,431	3,386	3,309	1,743	1,388	1,397	1,791
70%	2,010	1,829	1,868	2,017	2,192	2,139	3,177	2,715	1,303	1,108	1,221	1,644
80%	1,878	1,737	1,727	1,792	1,998	1,834	2,430	2,326	1,162	1,014	1,167	1,527
90%	1,386	1,608	1,567	1,588	1,833	1,658	1,634	1,789	1,038	884	1,066	1,423
Long Term												
Full Simulation Period[a]	2,515	2,367	3,211	5,018	6,361	6,763	6,291	6,069	3,206	2,184	1,710	2,144
Water Year Types[b]												
Wet (32%)	2,726	2,411	4,504	9,681	13,191	15,235	12,457	12,632	6,820	4,345	2,645	3,127
Above Normal (15%)	2,595	3,193	4,567	6,011	6,721	6,364	6,042	5,092	2,678	1,801	1,699	2,164
Below Normal (17%)	2,348	1,997	2,065	2,220	2,841	2,476	3,922	3,657	1,870	1,381	1,375	1,748
Dry (22%)	2,790	2,217	2,166	2,202	2,269	2,146	3,112	2,823	1,291	1,100	1,225	1,643
Critical (15%)	2,031	1,898	1,694	1,592	1,941	1,688	1,796	1,798	956	858	987	1,378

No Action Alternative (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-284	-91	-276	1,232	-242	1,439	1,401	-49	-6,218	-3,143	-465	-188
20%	-243	-189	-39	-397	-752	-284	838	-976	-3,069	-1,203	-678	-283
30%	-145	-168	73	-86	-97	-178	-56	-275	-274	-156	-593	-306
40%	-118	-115	-5	156	475	-1,667	-117	-86	-350	-69	-141	-198
50%	-107	-77	6	-26	-181	-364	-338	139	-187	-135	-48	-68
60%	-135	-52	-27	98	-7	-286	-808	-471	-118	-51	-57	-63
70%	-186	-47	6	-53	-163	-154	-252	-579	-226	-179	-146	-126
80%	-170	-32	-68	-11	-276	-276	-178	-259	-258	-170	-100	-160
90%	-258	-29	-69	-37	-321	-180	-409	-152	-39	-72	-21	-65
Long Term												
Full Simulation Period[a]	-123	-80	-9	241	-27	115	-60	-79	-1,377	-1,055	-362	-194
Water Year Types[b]												
Wet (32%)	-34	-122	134	592	441	861	502	523	-4,238	-3,309	-894	-392
Above Normal (15%)	-150	11	-144	564	-244	80	28	-289	-287	-157	-301	-190
Below Normal (17%)	-154	-154	-117	-106	-142	-473	-568	-417	-181	-110	-85	-81
Dry (22%)	-154	-55	37	-69	-321	-333	-545	-485	-246	-196	-150	-153
Critical (15%)	-182	-70	-35	-75	-179	-125	-187	-167	-65	-40	-20	-25

a Based on the 82-year simulation period

b As defined by the San Joaquin River Basin 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-23-2. San Joaquin River at Vernalis, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,596	2,902	4,363	9,686	15,593	14,474	12,960	13,526	11,935	7,289	3,181	3,312
20%	3,175	2,595	2,845	5,116	9,547	9,119	7,803	7,669	7,050	3,664	2,833	2,804
30%	2,975	2,399	2,319	3,273	6,158	7,611	6,570	5,613	3,351	2,124	2,400	2,557
40%	2,807	2,243	2,143	2,481	4,405	5,894	5,677	5,175	2,892	1,847	1,775	2,277
50%	2,546	2,071	2,064	2,396	3,477	3,225	5,220	4,372	2,367	1,641	1,541	1,961
60%	2,314	1,981	1,983	2,200	2,503	2,717	4,194	3,780	1,861	1,439	1,454	1,854
70%	2,196	1,876	1,863	2,071	2,354	2,293	3,429	3,293	1,529	1,287	1,367	1,770
80%	2,049	1,769	1,795	1,803	2,274	2,110	2,608	2,585	1,420	1,184	1,267	1,687
90%	1,644	1,637	1,636	1,625	2,154	1,838	2,043	1,941	1,077	956	1,086	1,489
Long Term												
Full Simulation Period[a]	2,639	2,448	3,219	4,777	6,388	6,648	6,351	6,148	4,583	3,239	2,072	2,338
Water Year Types[b]												
Wet (32%)	2,760	2,534	4,370	9,089	12,750	14,374	11,955	12,109	11,058	7,654	3,539	3,519
Above Normal (15%)	2,745	3,182	4,711	5,447	6,965	6,284	6,014	5,381	2,965	1,958	2,000	2,355
Below Normal (17%)	2,502	2,150	2,182	2,326	2,983	2,949	4,490	4,074	2,051	1,491	1,460	1,829
Dry (22%)	2,945	2,272	2,129	2,270	2,590	2,479	3,656	3,308	1,537	1,295	1,375	1,796
Critical (15%)	2,213	1,968	1,729	1,667	2,120	1,813	1,983	1,964	1,020	898	1,007	1,402

Alternative 1A,1B,1C (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,313	2,812	3,655	10,917	15,351	15,911	14,364	13,474	5,717	4,148	2,716	3,125
20%	2,933	2,517	2,966	5,034	8,795	8,835	8,642	6,694	3,989	2,481	2,157	2,525
30%	2,832	2,248	2,420	3,458	6,059	7,434	6,514	5,340	3,078	1,969	1,814	2,256
40%	2,688	2,135	2,145	2,627	4,793	4,228	5,560	5,094	2,549	1,785	1,635	2,083
50%	2,442	1,994	2,092	2,417	3,155	2,861	4,882	4,513	2,182	1,512	1,504	1,898
60%	2,179	1,929	1,966	2,326	2,497	2,431	3,387	3,313	1,744	1,400	1,413	1,794
70%	2,010	1,829	1,869	2,040	2,192	2,140	3,180	2,715	1,302	1,118	1,232	1,646
80%	1,879	1,738	1,727	1,765	1,998	1,833	2,430	2,328	1,165	1,023	1,163	1,530
90%	1,386	1,608	1,567	1,588	1,833	1,658	1,634	1,792	1,036	880	1,065	1,428
Long Term												
Full Simulation Period[a]	2,521	2,378	3,230	5,067	6,352	6,763	6,292	6,072	3,209	2,190	1,715	2,146
Water Year Types[b]												
Wet (32%)	2,744	2,418	4,556	9,811	13,196	15,234	12,458	12,636	6,822	4,350	2,648	3,129
Above Normal (15%)	2,596	3,208	4,593	6,011	6,680	6,365	6,044	5,094	2,682	1,808	1,704	2,167
Below Normal (17%)	2,349	1,997	2,060	2,255	2,849	2,476	3,924	3,662	1,876	1,392	1,383	1,752
Dry (22%)	2,792	2,253	2,163	2,236	2,246	2,146	3,113	2,825	1,295	1,107	1,230	1,645
Critical (15%)	2,032	1,898	1,694	1,592	1,943	1,688	1,797	1,799	956	860	988	1,379

Alternative 1A,1B,1C (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-283**	**-91**	**-708**	1,231	**-242**	1,437	1,404	**-51**	**-6,218**	**-3,141**	**-465**	**-187**
20%	**-242**	**-78**	122	**-82**	**-751**	**-284**	840	**-975**	**-3,061**	**-1,184**	**-676**	**-279**
30%	**-143**	**-151**	101	185	**-99**	**-177**	**-55**	**-272**	**-273**	**-154**	**-586**	**-302**
40%	**-119**	**-108**	2	146	388	**-1,666**	**-117**	**-80**	**-343**	**-62**	**-140**	**-194**
50%	**-104**	**-77**	29	21	**-322**	**-363**	**-337**	141	**-185**	**-129**	**-37**	**-63**
60%	**-135**	**-52**	**-17**	126	**-6**	**-286**	**-807**	**-467**	**-117**	**-39**	**-41**	**-60**
70%	**-186**	**-47**	6	**-30**	**-162**	**-153**	**-250**	**-578**	**-227**	**-169**	**-135**	**-124**
80%	**-170**	**-31**	**-68**	**-38**	**-276**	**-276**	**-178**	**-257**	**-255**	**-161**	**-105**	**-157**
90%	**-258**	**-29**	**-69**	**-37**	**-321**	**-180**	**-409**	**-149**	**-40**	**-75**	**-21**	**-60**
Long Term												
Full Simulation Period[a]	**-118**	**-70**	11	290	**-36**	115	**-59**	**-76**	**-1,374**	**-1,049**	**-358**	**-192**
Water Year Types[b]												
Wet (32%)	**-16**	**-116**	186	722	445	860	503	526	**-4,236**	**-3,304**	**-891**	**-390**
Above Normal (15%)	**-149**	26	**-118**	564	**-284**	81	29	**-288**	**-283**	**-150**	**-296**	**-188**
Below Normal (17%)	**-153**	**-154**	**-121**	**-71**	**-134**	**-473**	**-566**	**-412**	**-175**	**-99**	**-77**	**-77**
Dry (22%)	**-153**	**-20**	34	**-34**	**-345**	**-333**	**-544**	**-483**	**-242**	**-188**	**-145**	**-151**
Critical (15%)	**-181**	**-70**	**-35**	**-75**	**-177**	**-125**	**-187**	**-165**	**-64**	**-38**	**-19**	**-24**

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the San Joaquin River Basin 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-23-3. San Joaquin River at Vernalis, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,596	2,902	4,363	9,686	15,593	14,474	12,960	13,526	11,935	7,289	3,181	3,312
20%	3,175	2,595	2,845	5,116	9,547	9,119	7,803	7,669	7,050	3,664	2,833	2,804
30%	2,975	2,399	2,319	3,273	6,158	7,611	6,570	5,613	3,351	2,124	2,400	2,557
40%	2,807	2,243	2,143	2,481	4,405	5,894	5,677	5,175	2,892	1,847	1,775	2,277
50%	2,546	2,071	2,064	2,396	3,477	3,225	5,220	4,372	2,367	1,641	1,541	1,961
60%	2,314	1,981	1,983	2,200	2,503	2,717	4,194	3,780	1,861	1,439	1,454	1,854
70%	2,196	1,876	1,863	2,071	2,354	2,293	3,429	3,293	1,529	1,287	1,367	1,770
80%	2,049	1,769	1,795	1,803	2,274	2,110	2,608	2,585	1,420	1,184	1,267	1,687
90%	1,644	1,637	1,636	1,625	2,154	1,838	2,043	1,941	1,077	956	1,086	1,489
Long Term												
Full Simulation Period[a]	2,639	2,448	3,219	4,777	6,388	6,648	6,351	6,148	4,583	3,239	2,072	2,338
Water Year Types[b]												
Wet (32%)	2,760	2,534	4,370	9,089	12,750	14,374	11,955	12,109	11,058	7,654	3,539	3,519
Above Normal (15%)	2,745	3,182	4,711	5,447	6,965	6,284	6,014	5,381	2,965	1,958	2,000	2,355
Below Normal (17%)	2,502	2,150	2,182	2,326	2,983	2,949	4,490	4,074	2,051	1,491	1,460	1,829
Dry (22%)	2,945	2,272	2,129	2,270	2,590	2,479	3,656	3,308	1,537	1,295	1,375	1,796
Critical (15%)	2,213	1,968	1,729	1,667	2,120	1,813	1,983	1,964	1,020	898	1,007	1,402

Alternative 2A,2B,2C (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,313	2,812	4,421	10,915	15,353	15,922	14,365	13,475	5,718	4,147	2,716	3,125
20%	2,933	2,406	2,808	4,914	8,795	8,835	8,640	6,693	3,988	2,465	2,157	2,525
30%	2,831	2,231	2,324	3,264	6,061	7,434	6,512	5,334	3,078	1,969	1,803	2,255
40%	2,689	2,128	2,141	2,579	4,748	4,228	5,560	5,091	2,547	1,783	1,634	2,082
50%	2,439	1,994	2,026	2,383	3,289	2,861	4,882	4,506	2,181	1,513	1,493	1,894
60%	2,179	1,929	1,936	2,204	2,431	2,431	3,386	3,310	1,744	1,390	1,409	1,794
70%	2,010	1,829	1,858	2,038	2,192	2,139	3,178	2,714	1,304	1,108	1,232	1,645
80%	1,878	1,738	1,727	1,764	1,998	1,834	2,430	2,326	1,162	1,019	1,168	1,529
90%	1,386	1,608	1,567	1,588	1,833	1,658	1,634	1,786	1,039	880	1,065	1,423
Long Term												
Full Simulation Period[a]	2,502	2,370	3,214	5,009	6,348	6,762	6,292	6,069	3,207	2,186	1,712	2,145
Water Year Types[b]												
Wet (32%)	2,681	2,415	4,511	9,689	13,181	15,230	12,462	12,633	6,820	4,348	2,647	3,128
Above Normal (15%)	2,595	3,202	4,601	5,968	6,678	6,365	6,043	5,092	2,680	1,805	1,702	2,166
Below Normal (17%)	2,348	1,995	2,062	2,182	2,853	2,476	3,923	3,659	1,873	1,387	1,379	1,750
Dry (22%)	2,791	2,220	2,153	2,222	2,245	2,146	3,112	2,823	1,292	1,101	1,226	1,643
Critical (15%)	2,028	1,898	1,681	1,591	1,942	1,688	1,796	1,797	956	858	987	1,379

Alternative 2A,2B,2C (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-284	-90	58	1,229	-241	1,448	1,405	-51	-6,218	-3,142	-465	-187
20%	-242	-189	-37	-202	-752	-284	837	-976	-3,063	-1,200	-676	-279
30%	-144	-168	5	-10	-97	-177	-57	-278	-273	-154	-597	-302
40%	-119	-115	-2	97	344	-1,666	-117	-83	-346	-64	-141	-195
50%	-107	-77	-38	-13	-188	-364	-337	134	-186	-128	-48	-68
60%	-134	-52	-48	3	-72	-286	-808	-470	-117	-49	-44	-60
70%	-186	-47	-4	-33	-163	-154	-252	-579	-225	-179	-135	-125
80%	-170	-31	-67	-39	-276	-276	-178	-259	-258	-165	-99	-158
90%	-258	-29	-69	-37	-321	-180	-409	-155	-38	-75	-21	-66
Long Term												
Full Simulation Period[a]	-137	-77	-5	232	-40	114	-59	-78	-1,376	-1,053	-360	-193
Water Year Types[b]												
Wet (32%)	-79	-118	140	600	431	856	507	524	-4,238	-3,306	-892	-391
Above Normal (15%)	-150	20	-110	521	-286	80	28	-289	-285	-153	-299	-189
Below Normal (17%)	-154	-155	-120	-144	-129	-473	-567	-414	-178	-104	-81	-79
Dry (22%)	-153	-52	24	-48	-345	-333	-545	-485	-246	-194	-149	-153
Critical (15%)	-184	-70	-48	-76	-178	-125	-187	-168	-65	-40	-20	-23

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the San Joaquin River Basin 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-23-4. San Joaquin River at Vernalis, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,596	2,902	4,363	9,686	15,593	14,474	12,960	13,526	11,935	7,289	3,181	3,312
20%	3,175	2,595	2,845	5,116	9,547	9,119	7,803	7,669	7,050	3,664	2,833	2,804
30%	2,975	2,399	2,319	3,273	6,158	7,611	6,570	5,613	3,351	2,124	2,400	2,557
40%	2,807	2,243	2,143	2,481	4,405	5,894	5,677	5,175	2,892	1,847	1,775	2,277
50%	2,546	2,071	2,064	2,396	3,477	3,225	5,220	4,372	2,367	1,641	1,541	1,961
60%	2,314	1,981	1,983	2,200	2,503	2,717	4,194	3,780	1,861	1,439	1,454	1,854
70%	2,196	1,876	1,863	2,071	2,354	2,293	3,429	3,293	1,529	1,287	1,367	1,770
80%	2,049	1,769	1,795	1,803	2,274	2,110	2,608	2,585	1,420	1,184	1,267	1,687
90%	1,644	1,637	1,636	1,625	2,154	1,838	2,043	1,941	1,077	956	1,086	1,489
Long Term												
Full Simulation Period[a]	2,639	2,448	3,219	4,777	6,388	6,648	6,351	6,148	4,583	3,239	2,072	2,338
Water Year Types[b]												
Wet (32%)	2,760	2,534	4,370	9,089	12,750	14,374	11,955	12,109	11,058	7,654	3,539	3,519
Above Normal (15%)	2,745	3,182	4,711	5,447	6,965	6,284	6,014	5,381	2,965	1,958	2,000	2,355
Below Normal (17%)	2,502	2,150	2,182	2,326	2,983	2,949	4,490	4,074	2,051	1,491	1,460	1,829
Dry (22%)	2,945	2,272	2,129	2,270	2,590	2,479	3,656	3,308	1,537	1,295	1,375	1,796
Critical (15%)	2,213	1,968	1,729	1,667	2,120	1,813	1,983	1,964	1,020	898	1,007	1,402

Alternative 3 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,313	2,799	3,665	10,913	15,354	15,911	14,368	13,485	5,717	4,148	2,716	3,125
20%	2,933	2,407	2,908	5,033	8,795	8,835	8,642	6,694	3,989	2,481	2,157	2,525
30%	2,832	2,248	2,428	3,344	6,062	7,434	6,514	5,340	3,077	1,970	1,813	2,256
40%	2,688	2,135	2,141	2,671	4,861	4,228	5,560	5,094	2,549	1,784	1,635	2,083
50%	2,442	1,994	2,083	2,415	3,155	2,861	4,882	4,513	2,181	1,512	1,503	1,898
60%	2,179	1,929	1,947	2,336	2,497	2,432	3,387	3,313	1,745	1,400	1,413	1,794
70%	2,010	1,829	1,858	2,021	2,192	2,140	3,179	2,713	1,302	1,118	1,232	1,646
80%	1,879	1,738	1,727	1,765	1,998	1,834	2,430	2,328	1,163	1,023	1,162	1,530
90%	1,386	1,608	1,567	1,588	1,833	1,658	1,634	1,791	1,036	880	1,065	1,428
Long Term												
Full Simulation Period[a]	2,521	2,367	3,227	5,056	6,354	6,765	6,289	6,072	3,209	2,190	1,714	2,146
Water Year Types[b]												
Wet (32%)	2,744	2,418	4,547	9,794	13,195	15,242	12,449	12,638	6,823	4,350	2,648	3,129
Above Normal (15%)	2,596	3,154	4,585	5,988	6,693	6,365	6,043	5,094	2,681	1,807	1,704	2,166
Below Normal (17%)	2,349	1,997	2,083	2,248	2,845	2,476	3,924	3,661	1,875	1,391	1,382	1,752
Dry (22%)	2,792	2,253	2,163	2,236	2,246	2,146	3,113	2,825	1,295	1,107	1,230	1,645
Critical (15%)	2,032	1,898	1,681	1,592	1,942	1,688	1,796	1,798	956	860	988	1,380

Alternative 3 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-283	-103	-698	1,227	-240	1,437	1,408	-40	-6,218	-3,141	-465	-187
20%	-242	-188	63	-83	-751	-284	840	-975	-3,061	-1,184	-676	-279
30%	-143	-151	109	71	-96	-177	-55	-272	-274	-154	-587	-302
40%	-119	-108	-2	190	456	-1,666	-117	-80	-343	-63	-140	-194
50%	-104	-77	20	19	-322	-363	-337	141	-186	-128	-37	-63
60%	-135	-52	-37	136	-6	-286	-807	-467	-116	-38	-41	-60
70%	-186	-47	-4	-50	-162	-153	-250	-580	-227	-169	-135	-124
80%	-170	-31	-67	-38	-276	-276	-178	-257	-256	-161	-105	-157
90%	-258	-29	-69	-37	-321	-180	-409	-149	-40	-76	-22	-60
Long Term												
Full Simulation Period[a]	-118	-80	7	279	-34	118	-62	-76	-1,373	-1,049	-358	-191
Water Year Types[b]												
Wet (32%)	-16	-116	176	705	445	868	494	528	-4,235	-3,304	-891	-390
Above Normal (15%)	-149	-28	-126	541	-272	81	29	-288	-283	-151	-297	-188
Below Normal (17%)	-153	-154	-99	-78	-138	-473	-566	-412	-175	-99	-77	-77
Dry (22%)	-153	-20	34	-35	-345	-333	-544	-483	-242	-188	-145	-151
Critical (15%)	-181	-70	-48	-75	-178	-125	-187	-167	-64	-38	-19	-22

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the San Joaquin River Basin 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-23-5. San Joaquin River at Vernalis, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,596	2,902	4,363	9,686	15,593	14,474	12,960	13,526	11,935	7,289	3,181	3,312
20%	3,175	2,595	2,845	5,116	9,547	9,119	7,803	7,669	7,050	3,664	2,833	2,804
30%	2,975	2,399	2,319	3,273	6,158	7,611	6,570	5,613	3,351	2,124	2,400	2,557
40%	2,807	2,243	2,143	2,481	4,405	5,894	5,677	5,175	2,892	1,847	1,775	2,277
50%	2,546	2,071	2,064	2,396	3,477	3,225	5,220	4,372	2,367	1,641	1,541	1,961
60%	2,314	1,981	1,983	2,200	2,503	2,717	4,194	3,780	1,861	1,439	1,454	1,854
70%	2,196	1,876	1,863	2,071	2,354	2,293	3,429	3,293	1,529	1,287	1,367	1,770
80%	2,049	1,769	1,795	1,803	2,274	2,110	2,608	2,585	1,420	1,184	1,267	1,687
90%	1,644	1,637	1,636	1,625	2,154	1,838	2,043	1,941	1,077	956	1,086	1,489
Long Term												
Full Simulation Period[a]	2,639	2,448	3,219	4,777	6,388	6,648	6,351	6,148	4,583	3,239	2,072	2,338
Water Year Types[b]												
Wet (32%)	2,760	2,534	4,370	9,089	12,750	14,374	11,955	12,109	11,058	7,654	3,539	3,519
Above Normal (15%)	2,745	3,182	4,711	5,447	6,965	6,284	6,014	5,381	2,965	1,958	2,000	2,355
Below Normal (17%)	2,502	2,150	2,182	2,326	2,983	2,949	4,490	4,074	2,051	1,491	1,460	1,829
Dry (22%)	2,945	2,272	2,129	2,270	2,590	2,479	3,656	3,308	1,537	1,295	1,375	1,796
Critical (15%)	2,213	1,968	1,729	1,667	2,120	1,813	1,983	1,964	1,020	898	1,007	1,402

Alternative 4 H1 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,313	2,812	4,475	10,913	15,309	15,911	14,369	13,479	5,718	4,148	2,716	3,125
20%	2,933	2,521	2,815	4,954	8,795	8,835	8,642	6,693	3,988	2,476	2,157	2,525
30%	2,832	2,248	2,428	3,306	6,059	7,434	6,514	5,340	3,079	1,969	1,806	2,255
40%	2,689	2,135	2,141	2,579	4,748	4,228	5,559	5,094	2,542	1,786	1,634	2,080
50%	2,442	1,994	2,054	2,405	3,155	2,861	4,882	4,511	2,181	1,513	1,503	1,898
60%	2,180	1,929	1,936	2,210	2,470	2,432	3,387	3,313	1,745	1,399	1,412	1,794
70%	2,010	1,829	1,858	2,038	2,192	2,140	3,180	2,716	1,304	1,119	1,230	1,646
80%	1,879	1,738	1,727	1,793	1,998	1,834	2,430	2,329	1,165	1,020	1,168	1,529
90%	1,386	1,608	1,567	1,588	1,833	1,658	1,634	1,791	1,038	886	1,067	1,426
Long Term												
Full Simulation Period[a]	2,503	2,370	3,241	5,024	6,338	6,766	6,289	6,071	3,209	2,190	1,714	2,146
Water Year Types[b]												
Wet (32%)	2,682	2,416	4,555	9,714	13,178	15,246	12,450	12,634	6,822	4,350	2,648	3,129
Above Normal (15%)	2,596	3,170	4,642	5,997	6,677	6,365	6,043	5,093	2,680	1,806	1,703	2,166
Below Normal (17%)	2,349	1,997	2,083	2,195	2,795	2,476	3,924	3,661	1,876	1,392	1,383	1,752
Dry (22%)	2,791	2,253	2,168	2,222	2,245	2,147	3,113	2,825	1,295	1,107	1,230	1,645
Critical (15%)	2,032	1,898	1,681	1,592	1,942	1,688	1,796	1,799	957	861	988	1,380

Alternative 4 H1 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-283	-90	112	1,227	-285	1,437	1,410	-46	-6,218	-3,141	-465	-188
20%	-242	-74	-30	-162	-751	-284	840	-976	-3,062	-1,188	-676	-279
30%	-143	-151	109	33	-99	-177	-56	-273	-273	-154	-594	-302
40%	-119	-108	-3	97	343	-1,666	-118	-81	-350	-61	-141	-197
50%	-104	-77	-10	9	-322	-363	-337	139	-186	-127	-38	-63
60%	-134	-52	-48	10	-33	-286	-807	-468	-116	-39	-41	-60
70%	-186	-47	-4	-33	-162	-153	-250	-577	-225	-168	-137	-124
80%	-170	-31	-67	-10	-276	-276	-177	-256	-254	-164	-99	-158
90%	-258	-29	-69	-37	-321	-180	-409	-150	-38	-69	-19	-63
Long Term												
Full Simulation Period[a]	-136	-78	22	247	-50	119	-62	-77	-1,374	-1,050	-358	-191
Water Year Types[b]												
Wet (32%)	-78	-118	185	625	428	872	495	525	-4,236	-3,304	-891	-390
Above Normal (15%)	-149	-12	-69	550	-288	81	28	-289	-284	-152	-298	-189
Below Normal (17%)	-153	-154	-99	-131	-188	-473	-566	-412	-175	-99	-77	-77
Dry (22%)	-153	-19	39	-48	-345	-333	-544	-483	-242	-189	-145	-151
Critical (15%)	-181	-70	-48	-75	-178	-125	-187	-166	-63	-37	-19	-22

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the San Joaquin River Basin 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-23-6. San Joaquin River at Vernalis, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,596	2,902	4,363	9,686	15,593	14,474	12,960	13,526	11,935	7,289	3,181	3,312
20%	3,175	2,595	2,845	5,116	9,547	9,119	7,803	7,669	7,050	3,664	2,833	2,804
30%	2,975	2,399	2,319	3,273	6,158	7,611	6,570	5,613	3,351	2,124	2,400	2,557
40%	2,807	2,243	2,143	2,481	4,405	5,894	5,677	5,175	2,892	1,847	1,775	2,277
50%	2,546	2,071	2,064	2,396	3,477	3,225	5,220	4,372	2,367	1,641	1,541	1,961
60%	2,314	1,981	1,983	2,200	2,503	2,717	4,194	3,780	1,861	1,439	1,454	1,854
70%	2,196	1,876	1,863	2,071	2,354	2,293	3,429	3,293	1,529	1,287	1,367	1,770
80%	2,049	1,769	1,795	1,803	2,274	2,110	2,608	2,585	1,420	1,184	1,267	1,687
90%	1,644	1,637	1,636	1,625	2,154	1,838	2,043	1,941	1,077	956	1,086	1,489
Long Term												
Full Simulation Period[a]	2,639	2,448	3,219	4,777	6,388	6,648	6,351	6,148	4,583	3,239	2,072	2,338
Water Year Types[b]												
Wet (32%)	2,760	2,534	4,370	9,089	12,750	14,374	11,955	12,109	11,058	7,654	3,539	3,519
Above Normal (15%)	2,745	3,182	4,711	5,447	6,965	6,284	6,014	5,381	2,965	1,958	2,000	2,355
Below Normal (17%)	2,502	2,150	2,182	2,326	2,983	2,949	4,490	4,074	2,051	1,491	1,460	1,829
Dry (22%)	2,945	2,272	2,129	2,270	2,590	2,479	3,656	3,308	1,537	1,295	1,375	1,796
Critical (15%)	2,213	1,968	1,729	1,667	2,120	1,813	1,983	1,964	1,020	898	1,007	1,402

Alternative 4 H2 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,313	2,745	4,400	10,917	15,343	15,912	14,367	13,476	5,718	4,146	2,716	3,125
20%	2,932	2,405	2,942	5,011	8,795	8,835	8,640	6,694	3,988	2,478	2,157	2,525
30%	2,832	2,248	2,391	3,265	6,059	7,434	6,514	5,339	3,075	1,970	1,805	2,255
40%	2,689	2,135	2,138	2,676	4,881	4,228	5,560	5,092	2,548	1,784	1,635	2,082
50%	2,441	1,994	2,083	2,415	3,155	2,861	4,882	4,526	2,181	1,513	1,500	1,896
60%	2,179	1,929	1,947	2,213	2,431	2,432	3,387	3,311	1,744	1,399	1,413	1,794
70%	2,010	1,829	1,869	2,081	2,192	2,140	3,179	2,716	1,303	1,109	1,225	1,646
80%	1,879	1,738	1,727	1,793	1,998	1,834	2,423	2,329	1,165	1,012	1,168	1,527
90%	1,386	1,608	1,567	1,588	1,833	1,658	1,627	1,793	1,035	885	1,065	1,425
Long Term												
Full Simulation Period[a]	2,516	2,363	3,226	5,053	6,357	6,763	6,291	6,070	3,209	2,188	1,713	2,146
Water Year Types[b]												
Wet (32%)	2,727	2,404	4,525	9,723	13,192	15,235	12,459	12,633	6,825	4,349	2,648	3,128
Above Normal (15%)	2,596	3,154	4,593	6,012	6,765	6,365	6,043	5,095	2,681	1,807	1,703	2,166
Below Normal (17%)	2,348	1,997	2,083	2,327	2,781	2,476	3,924	3,660	1,874	1,389	1,381	1,751
Dry (22%)	2,791	2,250	2,186	2,235	2,245	2,146	3,112	2,824	1,294	1,104	1,228	1,644
Critical (15%)	2,032	1,898	1,684	1,592	1,942	1,687	1,795	1,798	953	857	985	1,380

Alternative 4 H2 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-284	-157	37	1,231	-250	1,437	1,407	-49	-6,218	-3,143	-465	-187
20%	-242	-190	97	-105	-751	-284	838	-974	-3,062	-1,186	-676	-279
30%	-143	-151	72	-8	-99	-177	-56	-274	-276	-154	-595	-302
40%	-118	-108	-5	195	476	-1,666	-117	-82	-344	-63	-140	-195
50%	-105	-77	19	19	-322	-363	-337	153	-186	-128	-41	-65
60%	-134	-52	-37	13	-72	-286	-807	-470	-117	-40	-41	-60
70%	-186	-47	6	10	-162	-153	-250	-577	-225	-179	-142	-124
80%	-170	-31	-68	-10	-276	-276	-185	-256	-254	-172	-99	-160
90%	-258	-29	-69	-37	-321	-180	-416	-148	-42	-71	-22	-64
Long Term												
Full Simulation Period[a]	-123	-85	7	276	-31	115	-60	-77	-1,374	-1,051	-359	-192
Water Year Types[b]												
Wet (32%)	-33	-130	154	634	442	861	505	524	-4,233	-3,305	-891	-390
Above Normal (15%)	-149	-28	-118	565	-200	81	29	-286	-284	-151	-297	-188
Below Normal (17%)	-153	-154	-99	1	-202	-473	-567	-414	-176	-102	-79	-78
Dry (22%)	-154	-22	57	-36	-345	-333	-545	-484	-243	-191	-146	-152
Critical (15%)	-181	-70	-45	-75	-178	-126	-188	-167	-67	-41	-23	-22

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the San Joaquin River Basin 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-23-7. San Joaquin River at Vernalis, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,596	2,902	4,363	9,686	15,593	14,474	12,960	13,526	11,935	7,289	3,181	3,312
20%	3,175	2,595	2,845	5,116	9,547	9,119	7,803	7,669	7,050	3,664	2,833	2,804
30%	2,975	2,399	2,319	3,273	6,158	7,611	6,570	5,613	3,351	2,124	2,400	2,557
40%	2,807	2,243	2,143	2,481	4,405	5,894	5,677	5,175	2,892	1,847	1,775	2,277
50%	2,546	2,071	2,064	2,396	3,477	3,225	5,220	4,372	2,367	1,641	1,541	1,961
60%	2,314	1,981	1,983	2,200	2,503	2,717	4,194	3,780	1,861	1,439	1,454	1,854
70%	2,196	1,876	1,863	2,071	2,354	2,293	3,429	3,293	1,529	1,287	1,367	1,770
80%	2,049	1,769	1,795	1,803	2,274	2,110	2,608	2,585	1,420	1,184	1,267	1,687
90%	1,644	1,637	1,636	1,625	2,154	1,838	2,043	1,941	1,077	956	1,086	1,489
Long Term												
Full Simulation Period[a]	2,639	2,448	3,219	4,777	6,388	6,648	6,351	6,148	4,583	3,239	2,072	2,338
Water Year Types[b]												
Wet (32%)	2,760	2,534	4,370	9,089	12,750	14,374	11,955	12,109	11,058	7,654	3,539	3,519
Above Normal (15%)	2,745	3,182	4,711	5,447	6,965	6,284	6,014	5,381	2,965	1,958	2,000	2,355
Below Normal (17%)	2,502	2,150	2,182	2,326	2,983	2,949	4,490	4,074	2,051	1,491	1,460	1,829
Dry (22%)	2,945	2,272	2,129	2,270	2,590	2,479	3,656	3,308	1,537	1,295	1,375	1,796
Critical (15%)	2,213	1,968	1,729	1,667	2,120	1,813	1,983	1,964	1,020	898	1,007	1,402

Alternative 4 H3 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,313	2,799	4,421	10,917	15,349	15,922	14,368	13,478	5,718	4,146	2,716	3,125
20%	2,933	2,406	2,950	4,962	8,795	8,835	8,638	6,693	3,988	2,462	2,157	2,525
30%	2,831	2,248	2,389	3,264	6,061	7,433	6,512	5,334	3,078	1,969	1,803	2,255
40%	2,689	2,135	2,138	2,579	4,818	4,228	5,559	5,090	2,542	1,784	1,634	2,079
50%	2,439	1,994	2,083	2,398	3,154	2,861	4,882	4,506	2,181	1,512	1,493	1,894
60%	2,179	1,929	1,946	2,289	2,469	2,431	3,387	3,310	1,745	1,390	1,410	1,793
70%	2,010	1,829	1,869	2,004	2,192	2,139	3,177	2,713	1,304	1,108	1,231	1,645
80%	1,878	1,738	1,727	1,781	1,998	1,834	2,430	2,326	1,162	1,019	1,168	1,529
90%	1,386	1,608	1,567	1,588	1,833	1,658	1,634	1,786	1,040	884	1,066	1,424
Long Term												
Full Simulation Period[a]	2,511	2,361	3,225	5,025	6,351	6,763	6,291	6,069	3,207	2,186	1,712	2,145
Water Year Types[b]												
Wet (32%)	2,712	2,418	4,492	9,675	13,182	15,236	12,460	12,633	6,820	4,347	2,646	3,128
Above Normal (15%)	2,595	3,123	4,643	6,037	6,701	6,365	6,042	5,092	2,679	1,804	1,702	2,166
Below Normal (17%)	2,348	1,997	2,075	2,207	2,841	2,476	3,923	3,659	1,873	1,386	1,378	1,750
Dry (22%)	2,791	2,253	2,186	2,266	2,245	2,146	3,112	2,823	1,292	1,101	1,226	1,643
Critical (15%)	2,031	1,898	1,683	1,572	1,942	1,688	1,796	1,797	956	858	987	1,379

Alternative 4 H3 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-284	-103	58	1,231	-245	1,448	1,408	-48	-6,218	-3,143	-465	-187
20%	-242	-189	106	-154	-752	-284	835	-976	-3,063	-1,202	-676	-280
30%	-144	-152	70	-10	-97	-178	-57	-278	-273	-154	-597	-302
40%	-118	-108	-5	97	413	-1,666	-118	-84	-350	-63	-141	-197
50%	-107	-77	19	2	-323	-364	-337	134	-186	-129	-47	-68
60%	-135	-52	-37	89	-33	-286	-808	-470	-117	-48	-43	-61
70%	-186	-47	6	-67	-163	-154	-252	-580	-225	-179	-136	-125
80%	-170	-31	-67	-22	-276	-276	-178	-258	-258	-165	-99	-158
90%	-258	-29	-69	-37	-321	-180	-409	-155	-37	-72	-20	-65
Long Term												
Full Simulation Period[a]	-127	-86	5	249	-37	116	-60	-78	-1,376	-1,053	-360	-193
Water Year Types[b]												
Wet (32%)	-47	-116	122	586	432	861	505	524	-4,238	-3,307	-892	-391
Above Normal (15%)	-150	-59	-68	590	-264	80	28	-289	-285	-153	-299	-189
Below Normal (17%)	-154	-154	-107	-119	-141	-473	-567	-415	-178	-105	-81	-79
Dry (22%)	-154	-19	57	-4	-345	-333	-545	-485	-245	-194	-149	-153
Critical (15%)	-182	-70	-46	-95	-178	-125	-187	-168	-64	-40	-20	-23

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the San Joaquin River Basin 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-23-8. San Joaquin River at Vernalis, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,596	2,902	4,363	9,686	15,593	14,474	12,960	13,526	11,935	7,289	3,181	3,312
20%	3,175	2,595	2,845	5,116	9,547	9,119	7,803	7,669	7,050	3,664	2,833	2,804
30%	2,975	2,399	2,319	3,273	6,158	7,611	6,570	5,613	3,351	2,124	2,400	2,557
40%	2,807	2,243	2,143	2,481	4,405	5,894	5,677	5,175	2,892	1,847	1,775	2,277
50%	2,546	2,071	2,064	2,396	3,477	3,225	5,220	4,372	2,367	1,641	1,541	1,961
60%	2,314	1,981	1,983	2,200	2,503	2,717	4,194	3,780	1,861	1,439	1,454	1,854
70%	2,196	1,876	1,863	2,071	2,354	2,293	3,429	3,293	1,529	1,287	1,367	1,770
80%	2,049	1,769	1,795	1,803	2,274	2,110	2,608	2,585	1,420	1,184	1,267	1,687
90%	1,644	1,637	1,636	1,625	2,154	1,838	2,043	1,941	1,077	956	1,086	1,489
Long Term												
Full Simulation Period[a]	2,639	2,448	3,219	4,777	6,388	6,648	6,351	6,148	4,583	3,239	2,072	2,338
Water Year Types[b]												
Wet (32%)	2,760	2,534	4,370	9,089	12,750	14,374	11,955	12,109	11,058	7,654	3,539	3,519
Above Normal (15%)	2,745	3,182	4,711	5,447	6,965	6,284	6,014	5,381	2,965	1,958	2,000	2,355
Below Normal (17%)	2,502	2,150	2,182	2,326	2,983	2,949	4,490	4,074	2,051	1,491	1,460	1,829
Dry (22%)	2,945	2,272	2,129	2,270	2,590	2,479	3,656	3,308	1,537	1,295	1,375	1,796
Critical (15%)	2,213	1,968	1,729	1,667	2,120	1,813	1,983	1,964	1,020	898	1,007	1,402

Alternative 4 H4 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,313	2,799	4,404	10,923	15,346	15,917	14,368	13,487	5,718	4,145	2,716	3,125
20%	2,932	2,518	3,002	5,031	8,795	8,835	8,636	6,693	3,988	2,466	2,157	2,525
30%	2,831	2,248	2,430	3,273	6,067	7,433	6,512	5,334	3,076	1,970	1,803	2,255
40%	2,689	2,135	2,138	2,669	4,831	4,228	5,560	5,091	2,548	1,781	1,635	2,082
50%	2,439	1,994	2,083	2,427	3,154	2,861	4,882	4,506	2,181	1,514	1,493	1,893
60%	2,179	1,929	1,946	2,274	2,497	2,431	3,386	3,309	1,742	1,389	1,408	1,794
70%	2,010	1,828	1,858	2,093	2,192	2,139	3,177	2,713	1,302	1,103	1,227	1,645
80%	1,878	1,738	1,727	1,764	1,998	1,834	2,423	2,326	1,162	1,014	1,167	1,527
90%	1,386	1,608	1,567	1,588	1,833	1,658	1,626	1,789	1,035	887	1,065	1,423
Long Term												
Full Simulation Period[a]	2,511	2,375	3,232	5,062	6,351	6,765	6,288	6,070	3,207	2,185	1,711	2,145
Water Year Types[b]												
Wet (32%)	2,712	2,411	4,548	9,760	13,194	15,243	12,450	12,637	6,823	4,347	2,646	3,128
Above Normal (15%)	2,595	3,204	4,610	6,057	6,731	6,365	6,043	5,092	2,680	1,805	1,702	2,166
Below Normal (17%)	2,348	1,997	2,083	2,272	2,778	2,476	3,923	3,658	1,872	1,385	1,377	1,749
Dry (22%)	2,791	2,253	2,167	2,227	2,245	2,146	3,111	2,822	1,290	1,098	1,225	1,643
Critical (15%)	2,031	1,897	1,681	1,592	1,942	1,687	1,794	1,796	952	854	984	1,380

Alternative 4 H4 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-284	-103	41	1,237	-247	1,443	1,408	-38	-6,218	-3,144	-465	-187
20%	-243	-77	158	-85	-752	-284	833	-975	-3,063	-1,198	-676	-280
30%	-144	-152	111	0	-91	-178	-58	-278	-275	-154	-597	-302
40%	-118	-108	-5	188	426	-1,666	-117	-84	-344	-66	-140	-194
50%	-107	-77	19	31	-323	-364	-337	134	-185	-127	-48	-68
60%	-134	-52	-37	74	-6	-286	-808	-472	-119	-50	-46	-60
70%	-186	-47	-4	23	-163	-154	-252	-580	-227	-184	-140	-125
80%	-171	-31	-68	-39	-276	-276	-185	-258	-258	-170	-100	-160
90%	-258	-29	-69	-37	-321	-180	-417	-152	-41	-69	-22	-66
Long Term												
Full Simulation Period[a]	-127	-73	13	285	-37	117	-63	-78	-1,376	-1,055	-361	-193
Water Year Types[b]												
Wet (32%)	-47	-122	178	671	444	868	496	528	-4,234	-3,307	-893	-391
Above Normal (15%)	-150	22	-101	610	-234	80	28	-289	-284	-153	-298	-189
Below Normal (17%)	-154	-154	-99	-54	-204	-473	-567	-415	-179	-106	-82	-80
Dry (22%)	-154	-20	38	-43	-345	-333	-546	-486	-247	-198	-150	-154
Critical (15%)	-182	-71	-48	-75	-177	-126	-189	-168	-68	-44	-24	-23

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the San Joaquin River Basin 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-23-9. San Joaquin River at Vernalis, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,596	2,902	4,363	9,686	15,593	14,474	12,960	13,526	11,935	7,289	3,181	3,312
20%	3,175	2,595	2,845	5,116	9,547	9,119	7,803	7,669	7,050	3,664	2,833	2,804
30%	2,975	2,399	2,319	3,273	6,158	7,611	6,570	5,613	3,351	2,124	2,400	2,557
40%	2,807	2,243	2,143	2,481	4,405	5,894	5,677	5,175	2,892	1,847	1,775	2,277
50%	2,546	2,071	2,064	2,396	3,477	3,225	5,220	4,372	2,367	1,641	1,541	1,961
60%	2,314	1,981	1,983	2,200	2,503	2,717	4,194	3,780	1,861	1,439	1,454	1,854
70%	2,196	1,876	1,863	2,071	2,354	2,293	3,429	3,293	1,529	1,287	1,367	1,770
80%	2,049	1,769	1,795	1,803	2,274	2,110	2,608	2,585	1,420	1,184	1,267	1,687
90%	1,644	1,637	1,636	1,625	2,154	1,838	2,043	1,941	1,077	956	1,086	1,489
Long Term												
Full Simulation Period[a]	2,639	2,448	3,219	4,777	6,388	6,648	6,351	6,148	4,583	3,239	2,072	2,338
Water Year Types[b]												
Wet (32%)	2,760	2,534	4,370	9,089	12,750	14,374	11,955	12,109	11,058	7,654	3,539	3,519
Above Normal (15%)	2,745	3,182	4,711	5,447	6,965	6,284	6,014	5,381	2,965	1,958	2,000	2,355
Below Normal (17%)	2,502	2,150	2,182	2,326	2,983	2,949	4,490	4,074	2,051	1,491	1,460	1,829
Dry (22%)	2,945	2,272	2,129	2,270	2,590	2,479	3,656	3,308	1,537	1,295	1,375	1,796
Critical (15%)	2,213	1,968	1,729	1,667	2,120	1,813	1,983	1,964	1,020	898	1,007	1,402

Alternative 5 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,313	2,812	4,209	10,916	15,353	15,913	14,365	13,480	5,717	4,147	2,716	3,125
20%	2,933	2,613	2,850	4,964	8,794	8,835	8,642	6,692	3,986	2,470	2,156	2,524
30%	2,831	2,250	2,420	3,187	6,062	7,434	6,515	5,335	3,077	1,969	1,806	2,255
40%	2,688	2,135	2,138	2,658	4,799	4,228	5,561	5,091	2,550	1,782	1,634	2,083
50%	2,439	1,994	2,083	2,415	3,296	2,861	4,883	4,507	2,181	1,513	1,494	1,894
60%	2,179	1,929	1,966	2,335	2,497	2,431	3,387	3,310	1,744	1,393	1,409	1,793
70%	2,010	1,829	1,869	2,040	2,192	2,139	3,179	2,715	1,303	1,108	1,230	1,645
80%	1,878	1,738	1,727	1,788	1,998	1,833	2,430	2,325	1,162	1,020	1,167	1,529
90%	1,386	1,608	1,567	1,588	1,833	1,658	1,634	1,787	1,044	882	1,064	1,423
Long Term												
Full Simulation Period[a]	2,509	2,368	3,235	5,038	6,355	6,763	6,291	6,070	3,207	2,186	1,712	2,145
Water Year Types[b]												
Wet (32%)	2,712	2,418	4,559	9,742	13,199	15,234	12,458	12,634	6,819	4,347	2,646	3,128
Above Normal (15%)	2,585	3,132	4,594	5,991	6,683	6,365	6,043	5,093	2,680	1,805	1,702	2,166
Below Normal (17%)	2,348	2,029	2,072	2,238	2,832	2,476	3,924	3,659	1,873	1,387	1,379	1,750
Dry (22%)	2,792	2,252	2,179	2,224	2,269	2,146	3,112	2,824	1,292	1,102	1,226	1,643
Critical (15%)	2,031	1,898	1,694	1,592	1,942	1,688	1,796	1,797	956	858	987	1,380

Alternative 5 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-284	-91	-154	1,230	-240	1,439	1,406	-45	-6,218	-3,142	-465	-188
20%	-242	18	6	-152	-752	-284	839	-976	-3,065	-1,195	-677	-280
30%	-144	-149	101	-86	-96	-177	-55	-278	-274	-155	-595	-302
40%	-119	-108	-5	177	394	-1,666	-116	-83	-342	-65	-141	-194
50%	-107	-77	19	19	-181	-364	-337	135	-186	-128	-47	-67
60%	-134	-52	-17	135	-6	-286	-807	-470	-117	-45	-44	-61
70%	-186	-47	6	-31	-163	-154	-251	-579	-226	-179	-137	-125
80%	-170	-31	-67	-15	-276	-276	-178	-259	-258	-164	-101	-158
90%	-258	-29	-69	-37	-321	-180	-409	-154	-33	-73	-22	-66
Long Term												
Full Simulation Period[a]	-129	-80	16	261	-33	115	-60	-78	-1,376	-1,053	-360	-193
Water Year Types[b]												
Wet (32%)	-47	-115	189	653	449	860	504	525	-4,238	-3,307	-893	-391
Above Normal (15%)	-160	-51	-117	544	-282	81	29	-289	-285	-153	-299	-189
Below Normal (17%)	-154	-121	-109	-88	-150	-473	-567	-414	-178	-104	-81	-79
Dry (22%)	-153	-20	50	-46	-321	-333	-545	-485	-245	-193	-148	-153
Critical (15%)	-182	-70	-35	-75	-178	-125	-187	-168	-65	-40	-20	-23

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the San Joaquin River Basin 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-23-10. San Joaquin River at Vernalis, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,596	2,902	4,363	9,686	15,593	14,474	12,960	13,526	11,935	7,289	3,181	3,312
20%	3,175	2,595	2,845	5,116	9,547	9,119	7,803	7,669	7,050	3,664	2,833	2,804
30%	2,975	2,399	2,319	3,273	6,158	7,611	6,570	5,613	3,351	2,124	2,400	2,557
40%	2,807	2,243	2,143	2,481	4,405	5,894	5,677	5,175	2,892	1,847	1,775	2,277
50%	2,546	2,071	2,064	2,396	3,477	3,225	5,220	4,372	2,367	1,641	1,541	1,961
60%	2,314	1,981	1,983	2,200	2,503	2,717	4,194	3,780	1,861	1,439	1,454	1,854
70%	2,196	1,876	1,863	2,071	2,354	2,293	3,429	3,293	1,529	1,287	1,367	1,770
80%	2,049	1,769	1,795	1,803	2,274	2,110	2,608	2,585	1,420	1,184	1,267	1,687
90%	1,644	1,637	1,636	1,625	2,154	1,838	2,043	1,941	1,077	956	1,086	1,489
Long Term												
Full Simulation Period[a]	2,639	2,448	3,219	4,777	6,388	6,648	6,351	6,148	4,583	3,239	2,072	2,338
Water Year Types[b]												
Wet (32%)	2,760	2,534	4,370	9,089	12,750	14,374	11,955	12,109	11,058	7,654	3,539	3,519
Above Normal (15%)	2,745	3,182	4,711	5,447	6,965	6,284	6,014	5,381	2,965	1,958	2,000	2,355
Below Normal (17%)	2,502	2,150	2,182	2,326	2,983	2,949	4,490	4,074	2,051	1,491	1,460	1,829
Dry (22%)	2,945	2,272	2,129	2,270	2,590	2,479	3,656	3,308	1,537	1,295	1,375	1,796
Critical (15%)	2,213	1,968	1,729	1,667	2,120	1,813	1,983	1,964	1,020	898	1,007	1,402

Alternative 6A,6B,6C (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,313	2,830	4,424	10,920	15,279	15,920	13,811	12,872	5,807	4,146	2,716	3,124
20%	2,932	2,655	2,802	5,317	8,768	8,740	8,508	6,690	3,980	2,454	2,155	2,520
30%	2,829	2,267	2,431	3,272	6,071	7,433	6,511	5,329	3,071	1,967	1,796	2,252
40%	2,674	2,134	2,138	2,614	4,880	4,228	5,559	5,089	2,539	1,773	1,634	2,081
50%	2,438	1,994	2,053	2,415	3,153	2,861	4,882	4,507	2,177	1,504	1,490	1,891
60%	2,177	1,929	1,944	2,315	2,496	2,430	3,405	3,307	1,738	1,361	1,404	1,793
70%	2,009	1,828	1,858	2,038	2,190	2,137	3,174	2,707	1,298	1,103	1,223	1,644
80%	1,878	1,737	1,727	1,764	1,998	1,833	2,419	2,325	1,161	1,003	1,159	1,527
90%	1,386	1,608	1,567	1,587	1,833	1,658	1,625	1,767	1,037	887	1,058	1,420
Long Term												
Full Simulation Period[a]	2,518	2,384	3,229	5,069	6,354	6,758	6,267	6,054	3,210	2,176	1,707	2,141
Water Year Types[b]												
Wet (32%)	2,739	2,418	4,550	9,768	13,199	15,240	12,392	12,597	6,857	4,339	2,643	3,126
Above Normal (15%)	2,594	3,202	4,655	6,067	6,745	6,336	6,025	5,085	2,658	1,798	1,697	2,163
Below Normal (17%)	2,343	2,053	2,072	2,300	2,777	2,475	3,921	3,654	1,866	1,374	1,371	1,746
Dry (22%)	2,791	2,244	2,099	2,216	2,245	2,145	3,109	2,815	1,285	1,080	1,219	1,640
Critical (15%)	2,031	1,898	1,680	1,591	1,942	1,687	1,791	1,790	950	851	981	1,366

Alternative 6A,6B,6C (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-284	-72	61	1,234	-314	1,445	851	-654	-6,129	-3,143	-465	-188
20%	-243	60	-42	201	-779	-378	706	-979	-3,070	-1,210	-678	-284
30%	-146	-133	112	-1	-87	-178	-58	-283	-280	-156	-604	-305
40%	-133	-108	-5	133	475	-1,667	-118	-86	-353	-74	-141	-196
50%	-108	-77	-10	18	-324	-364	-337	134	-190	-137	-51	-70
60%	-137	-53	-40	115	-7	-287	-789	-473	-123	-78	-50	-60
70%	-188	-47	-5	-33	-164	-156	-255	-586	-231	-184	-144	-126
80%	-171	-32	-68	-39	-276	-276	-189	-259	-259	-181	-108	-160
90%	-258	-29	-70	-38	-321	-180	-417	-174	-40	-69	-29	-69
Long Term												
Full Simulation Period[a]	-121	-64	10	292	-33	111	-84	-94	-1,372	-1,063	-365	-197
Water Year Types[b]												
Wet (32%)	-20	-116	180	679	449	865	438	488	-4,201	-3,315	-896	-393
Above Normal (15%)	-151	20	-56	620	-220	52	11	-297	-306	-160	-304	-191
Below Normal (17%)	-159	-97	-110	-26	-205	-473	-569	-419	-185	-117	-88	-82
Dry (22%)	-154	-28	-30	-54	-345	-334	-547	-494	-253	-215	-156	-156
Critical (15%)	-182	-71	-49	-76	-178	-126	-192	-174	-71	-48	-27	-36

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the San Joaquin River Basin 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-23-11. San Joaquin River at Vernalis, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,596	2,902	4,363	9,686	15,593	14,474	12,960	13,526	11,935	7,289	3,181	3,312
20%	3,175	2,595	2,845	5,116	9,547	9,119	7,803	7,669	7,050	3,664	2,833	2,804
30%	2,975	2,399	2,319	3,273	6,158	7,611	6,570	5,613	3,351	2,124	2,400	2,557
40%	2,807	2,243	2,143	2,481	4,405	5,894	5,677	5,175	2,892	1,847	1,775	2,277
50%	2,546	2,071	2,064	2,396	3,477	3,225	5,220	4,372	2,367	1,641	1,541	1,961
60%	2,314	1,981	1,983	2,200	2,503	2,717	4,194	3,780	1,861	1,439	1,454	1,854
70%	2,196	1,876	1,863	2,071	2,354	2,293	3,429	3,293	1,529	1,287	1,367	1,770
80%	2,049	1,769	1,795	1,803	2,274	2,110	2,608	2,585	1,420	1,184	1,267	1,687
90%	1,644	1,637	1,636	1,625	2,154	1,838	2,043	1,941	1,077	956	1,086	1,489
Long Term												
Full Simulation Period[a]	2,639	2,448	3,219	4,777	6,388	6,648	6,351	6,148	4,583	3,239	2,072	2,338
Water Year Types[b]												
Wet (32%)	2,760	2,534	4,370	9,089	12,750	14,374	11,955	12,109	11,058	7,654	3,539	3,519
Above Normal (15%)	2,745	3,182	4,711	5,447	6,965	6,284	6,014	5,381	2,965	1,958	2,000	2,355
Below Normal (17%)	2,502	2,150	2,182	2,326	2,983	2,949	4,490	4,074	2,051	1,491	1,460	1,829
Dry (22%)	2,945	2,272	2,129	2,270	2,590	2,479	3,656	3,308	1,537	1,295	1,375	1,796
Critical (15%)	2,213	1,968	1,729	1,667	2,120	1,813	1,983	1,964	1,020	898	1,007	1,402

Alternative 7 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,313	2,803	3,673	10,920	15,281	15,916	14,374	13,497	5,716	4,146	2,716	3,124
20%	2,933	2,615	3,004	5,034	8,770	8,823	8,509	6,690	3,982	2,450	2,155	2,522
30%	2,829	2,250	2,422	3,272	6,068	7,433	6,511	5,333	3,071	1,967	1,797	2,252
40%	2,675	2,134	2,141	2,616	4,749	4,227	5,558	5,088	2,538	1,779	1,634	2,077
50%	2,438	1,994	2,087	2,420	3,190	2,861	4,882	4,500	2,178	1,502	1,489	1,891
60%	2,177	1,929	1,965	2,316	2,496	2,431	3,386	3,307	1,738	1,361	1,406	1,793
70%	2,009	1,828	1,868	2,042	2,189	2,138	3,174	2,711	1,300	1,103	1,223	1,643
80%	1,878	1,738	1,727	1,792	1,998	1,831	2,419	2,326	1,161	997	1,159	1,527
90%	1,386	1,607	1,567	1,587	1,833	1,658	1,625	1,779	1,033	887	1,058	1,420
Long Term												
Full Simulation Period[a]	2,509	2,380	3,230	5,049	6,339	6,765	6,284	6,061	3,205	2,177	1,706	2,141
Water Year Types[b]												
Wet (32%)	2,709	2,418	4,536	9,754	13,169	15,243	12,452	12,620	6,837	4,338	2,643	3,126
Above Normal (15%)	2,594	3,194	4,605	6,015	6,674	6,363	6,024	5,084	2,658	1,798	1,697	2,163
Below Normal (17%)	2,347	2,029	2,061	2,256	2,824	2,476	3,921	3,655	1,867	1,376	1,372	1,746
Dry (22%)	2,791	2,251	2,187	2,226	2,245	2,145	3,106	2,816	1,284	1,083	1,219	1,640
Critical (15%)	2,027	1,898	1,693	1,591	1,941	1,687	1,792	1,791	951	852	977	1,367

Alternative 7 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-284	-100	-690	1,233	-312	1,442	1,414	-29	-6,219	-3,143	-465	-188
20%	-242	20	160	-82	-777	-296	706	-978	-3,068	-1,214	-678	-282
30%	-146	-149	103	-1	-90	-178	-58	-280	-281	-156	-603	-305
40%	-133	-108	-3	135	344	-1,667	-119	-86	-354	-68	-141	-200
50%	-108	-77	23	24	-287	-364	-338	128	-189	-139	-52	-71
60%	-137	-52	-19	116	-6	-287	-808	-473	-123	-78	-48	-61
70%	-187	-48	6	-28	-166	-155	-255	-582	-229	-184	-144	-127
80%	-171	-31	-68	-11	-276	-278	-189	-259	-259	-188	-108	-160
90%	-259	-29	-70	-38	-321	-180	-417	-162	-43	-69	-29	-69
Long Term												
Full Simulation Period[a]	-129	-68	11	273	-49	117	-67	-87	-1,378	-1,063	-366	-197
Water Year Types[b]												
Wet (32%)	-51	-116	166	665	419	869	497	511	-4,221	-3,316	-896	-393
Above Normal (15%)	-151	12	-106	568	-291	79	10	-297	-307	-160	-304	-191
Below Normal (17%)	-155	-121	-121	-70	-158	-473	-569	-419	-184	-115	-88	-82
Dry (22%)	-154	-21	58	-44	-345	-334	-550	-492	-253	-212	-156	-156
Critical (15%)	-185	-71	-36	-76	-178	-126	-191	-174	-70	-47	-30	-36

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the San Joaquin River Basin 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-23-12. San Joaquin River at Vernalis, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,596	2,902	4,363	9,686	15,593	14,474	12,960	13,526	11,935	7,289	3,181	3,312
20%	3,175	2,595	2,845	5,116	9,547	9,119	7,803	7,669	7,050	3,664	2,833	2,804
30%	2,975	2,399	2,319	3,273	6,158	7,611	6,570	5,613	3,351	2,124	2,400	2,557
40%	2,807	2,243	2,143	2,481	4,405	5,894	5,677	5,175	2,892	1,847	1,775	2,277
50%	2,546	2,071	2,064	2,396	3,477	3,225	5,220	4,372	2,367	1,641	1,541	1,961
60%	2,314	1,981	1,983	2,200	2,503	2,717	4,194	3,780	1,861	1,439	1,454	1,854
70%	2,196	1,876	1,863	2,071	2,354	2,293	3,429	3,293	1,529	1,287	1,367	1,770
80%	2,049	1,769	1,795	1,803	2,274	2,110	2,608	2,585	1,420	1,184	1,267	1,687
90%	1,644	1,637	1,636	1,625	2,154	1,838	2,043	1,941	1,077	956	1,086	1,489
Long Term												
Full Simulation Period[a]	2,639	2,448	3,219	4,777	6,388	6,648	6,351	6,148	4,583	3,239	2,072	2,338
Water Year Types[b]												
Wet (32%)	2,760	2,534	4,370	9,089	12,750	14,374	11,955	12,109	11,058	7,654	3,539	3,519
Above Normal (15%)	2,745	3,182	4,711	5,447	6,965	6,284	6,014	5,381	2,965	1,958	2,000	2,355
Below Normal (17%)	2,502	2,150	2,182	2,326	2,983	2,949	4,490	4,074	2,051	1,491	1,460	1,829
Dry (22%)	2,945	2,272	2,129	2,270	2,590	2,479	3,656	3,308	1,537	1,295	1,375	1,796
Critical (15%)	2,213	1,968	1,729	1,667	2,120	1,813	1,983	1,964	1,020	898	1,007	1,402

Alternative 8 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,313	2,812	4,497	10,924	15,194	15,914	14,395	13,503	5,715	4,146	2,715	3,124
20%	2,932	2,523	3,005	5,037	8,762	8,759	8,509	6,691	3,982	2,453	2,155	2,522
30%	2,829	2,261	2,428	3,271	6,071	7,433	6,511	5,331	3,071	1,966	1,799	2,250
40%	2,675	2,134	2,141	2,639	4,797	4,227	5,558	5,086	2,538	1,776	1,634	2,077
50%	2,438	1,994	2,059	2,426	3,299	2,861	4,882	4,502	2,176	1,499	1,489	1,890
60%	2,177	1,929	1,935	2,346	2,496	2,431	3,385	3,308	1,735	1,372	1,396	1,791
70%	2,008	1,828	1,858	2,018	2,189	2,138	3,174	2,709	1,300	1,103	1,214	1,642
80%	1,878	1,737	1,727	1,766	1,998	1,833	2,419	2,316	1,161	999	1,160	1,527
90%	1,386	1,608	1,567	1,587	1,833	1,658	1,625	1,779	1,032	879	1,058	1,420
Long Term												
Full Simulation Period[a]	2,511	2,364	3,251	5,064	6,348	6,759	6,284	6,061	3,206	2,176	1,704	2,140
Water Year Types[b]												
Wet (32%)	2,722	2,418	4,584	9,785	13,161	15,244	12,455	12,621	6,843	4,337	2,643	3,126
Above Normal (15%)	2,584	3,083	4,654	6,077	6,704	6,335	6,024	5,085	2,658	1,798	1,697	2,163
Below Normal (17%)	2,343	2,064	2,079	2,226	2,837	2,476	3,919	3,653	1,864	1,371	1,368	1,745
Dry (22%)	2,790	2,253	2,169	2,239	2,270	2,145	3,106	2,817	1,284	1,089	1,219	1,640
Critical (15%)	2,030	1,897	1,680	1,572	1,942	1,686	1,790	1,791	950	851	970	1,366

Alternative 8 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-284	-91	134	1,238	-399	1,439	1,436	-22	-6,220	-3,143	-466	-188
20%	-243	-72	160	-79	-785	-360	707	-977	-3,069	-1,211	-678	-283
30%	-146	-139	109	-2	-87	-178	-58	-282	-280	-158	-601	-307
40%	-132	-108	-3	158	392	-1,667	-119	-88	-354	-71	-141	-200
50%	-108	-77	-4	29	-178	-364	-338	129	-191	-142	-52	-71
60%	-137	-52	-48	146	-7	-287	-809	-472	-126	-67	-58	-63
70%	-188	-47	-5	-53	-165	-155	-255	-585	-228	-184	-153	-128
80%	-171	-32	-68	-38	-276	-276	-189	-268	-259	-185	-107	-160
90%	-258	-29	-70	-38	-321	-180	-417	-162	-44	-76	-29	-69
Long Term												
Full Simulation Period[a]	-128	-84	32	287	-39	112	-67	-86	-1,377	-1,063	-368	-197
Water Year Types[b]												
Wet (32%)	-37	-116	214	696	411	869	501	512	-4,215	-3,317	-896	-393
Above Normal (15%)	-161	-99	-57	630	-261	51	10	-297	-306	-160	-304	-191
Below Normal (17%)	-159	-86	-103	-100	-145	-473	-571	-420	-187	-120	-92	-84
Dry (22%)	-155	-19	40	-31	-321	-334	-550	-491	-253	-206	-155	-156
Critical (15%)	-182	-71	-49	-95	-178	-127	-193	-174	-70	-48	-37	-36

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the San Joaquin River Basin 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-23-13. San Joaquin River at Vernalis, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,596	2,902	4,363	9,686	15,593	14,474	12,960	13,526	11,935	7,289	3,181	3,312
20%	3,175	2,595	2,845	5,116	9,547	9,119	7,803	7,669	7,050	3,664	2,833	2,804
30%	2,975	2,399	2,319	3,273	6,158	7,611	6,570	5,613	3,351	2,124	2,400	2,557
40%	2,807	2,243	2,143	2,481	4,405	5,894	5,677	5,175	2,892	1,847	1,775	2,277
50%	2,546	2,071	2,064	2,396	3,477	3,225	5,220	4,372	2,367	1,641	1,541	1,961
60%	2,314	1,981	1,983	2,200	2,503	2,717	4,194	3,780	1,861	1,439	1,454	1,854
70%	2,196	1,876	1,863	2,071	2,354	2,293	3,429	3,293	1,529	1,287	1,367	1,770
80%	2,049	1,769	1,795	1,803	2,274	2,110	2,608	2,585	1,420	1,184	1,267	1,687
90%	1,644	1,637	1,636	1,625	2,154	1,838	2,043	1,941	1,077	956	1,086	1,489
Long Term												
Full Simulation Period[a]	2,639	2,448	3,219	4,777	6,388	6,648	6,351	6,148	4,583	3,239	2,072	2,338
Water Year Types[b]												
Wet (32%)	2,760	2,534	4,370	9,089	12,750	14,374	11,955	12,109	11,058	7,654	3,539	3,519
Above Normal (15%)	2,745	3,182	4,711	5,447	6,965	6,284	6,014	5,381	2,965	1,958	2,000	2,355
Below Normal (17%)	2,502	2,150	2,182	2,326	2,983	2,949	4,490	4,074	2,051	1,491	1,460	1,829
Dry (22%)	2,945	2,272	2,129	2,270	2,590	2,479	3,656	3,308	1,537	1,295	1,375	1,796
Critical (15%)	2,213	1,968	1,729	1,667	2,120	1,813	1,983	1,964	1,020	898	1,007	1,402

Alternative 9 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,312	2,830	4,595	10,921	15,357	15,912	14,367	13,471	5,713	4,145	2,714	3,123
20%	2,933	2,677	2,814	4,718	8,794	8,835	8,639	6,691	3,981	2,463	2,155	2,521
30%	2,830	2,261	2,393	3,473	6,072	7,434	6,514	5,335	3,073	1,965	1,803	2,253
40%	2,688	2,135	2,141	2,661	4,880	4,228	5,560	5,092	2,544	1,776	1,634	2,080
50%	2,440	1,994	2,053	2,415	3,306	2,861	4,882	4,505	2,181	1,508	1,494	1,894
60%	2,179	1,929	1,935	2,317	2,445	2,431	3,387	3,311	1,740	1,386	1,401	1,791
70%	2,010	1,828	1,858	2,038	2,192	2,139	3,177	2,714	1,302	1,103	1,225	1,644
80%	1,878	1,738	1,727	1,792	1,998	1,831	2,423	2,326	1,162	998	1,165	1,527
90%	1,386	1,608	1,567	1,588	1,833	1,658	1,625	1,787	1,031	884	1,064	1,422
Long Term												
Full Simulation Period[a]	2,511	2,384	3,231	5,055	6,359	6,766	6,290	6,067	3,207	2,182	1,709	2,144
Water Year Types[b]												
Wet (32%)	2,712	2,418	4,580	9,778	13,202	15,245	12,455	12,630	6,826	4,344	2,643	3,126
Above Normal (15%)	2,595	3,195	4,574	6,037	6,722	6,365	6,043	5,091	2,678	1,801	1,699	2,164
Below Normal (17%)	2,348	2,052	2,073	2,241	2,808	2,476	3,923	3,658	1,871	1,383	1,376	1,749
Dry (22%)	2,791	2,253	2,155	2,204	2,271	2,145	3,110	2,820	1,289	1,094	1,224	1,642
Critical (15%)	2,031	1,898	1,681	1,592	1,941	1,687	1,794	1,795	952	853	983	1,379

Alternative 9 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-284	-72	232	1,234	-236	1,438	1,408	-54	-6,222	-3,144	-467	-189
20%	-242	82	-30	-398	-752	-284	836	-977	-3,069	-1,201	-678	-283
30%	-145	-139	74	200	-86	-177	-55	-277	-278	-158	-597	-305
40%	-119	-108	-3	179	475	-1,667	-117	-83	-348	-71	-141	-197
50%	-106	-77	-10	18	-171	-364	-338	133	-186	-132	-47	-68
60%	-135	-52	-48	117	-58	-286	-807	-470	-121	-53	-52	-63
70%	-187	-47	-5	-33	-162	-154	-253	-580	-227	-184	-142	-126
80%	-171	-32	-68	-11	-276	-278	-184	-259	-258	-186	-102	-160
90%	-258	-29	-69	-37	-321	-180	-417	-154	-46	-72	-23	-66
Long Term												
Full Simulation Period[a]	-128	-64	12	278	-28	118	-61	-81	-1,376	-1,058	-363	-194
Water Year Types[b]												
Wet (32%)	-48	-115	210	689	452	871	501	521	-4,231	-3,311	-895	-392
Above Normal (15%)	-150	13	-137	590	-243	80	29	-291	-287	-157	-302	-190
Below Normal (17%)	-154	-98	-109	-85	-174	-473	-567	-416	-180	-108	-84	-80
Dry (22%)	-154	-20	26	-66	-320	-334	-547	-488	-249	-202	-151	-154
Critical (15%)	-182	-70	-48	-76	-179	-126	-189	-169	-68	-45	-24	-23

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the San Joaquin River Basin 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-23-14. San Joaquin River at Vernalis, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,313	2,812	4,087	10,918	15,352	15,914	14,360	13,477	5,717	4,146	2,716	3,124
20%	2,932	2,406	2,806	4,719	8,794	8,835	8,640	6,693	3,981	2,461	2,155	2,521
30%	2,830	2,231	2,392	3,187	6,061	7,433	6,513	5,338	3,077	1,968	1,807	2,252
40%	2,689	2,128	2,138	2,637	4,880	4,228	5,560	5,089	2,542	1,779	1,634	2,079
50%	2,439	1,994	2,070	2,371	3,296	2,861	4,882	4,511	2,180	1,506	1,492	1,893
60%	2,179	1,929	1,957	2,298	2,496	2,431	3,386	3,309	1,743	1,388	1,397	1,791
70%	2,010	1,829	1,868	2,017	2,192	2,139	3,177	2,715	1,303	1,108	1,221	1,644
80%	1,878	1,737	1,727	1,792	1,998	1,834	2,430	2,326	1,162	1,014	1,167	1,527
90%	1,386	1,608	1,567	1,588	1,833	1,658	1,634	1,789	1,038	884	1,066	1,423
Long Term												
Full Simulation Period[a]	2,515	2,367	3,211	5,018	6,361	6,763	6,291	6,069	3,206	2,184	1,710	2,144
Water Year Types[b]												
Wet (32%)	2,726	2,411	4,504	9,681	13,191	15,235	12,457	12,632	6,820	4,345	2,645	3,127
Above Normal (15%)	2,595	3,193	4,567	6,011	6,721	6,364	6,042	5,092	2,678	1,801	1,699	2,164
Below Normal (17%)	2,348	1,997	2,065	2,220	2,841	2,476	3,922	3,657	1,870	1,381	1,375	1,748
Dry (22%)	2,790	2,217	2,166	2,202	2,269	2,146	3,112	2,823	1,291	1,100	1,225	1,643
Critical (15%)	2,031	1,898	1,694	1,592	1,941	1,688	1,796	1,798	956	858	987	1,378

Alternative 1A,1B,1C (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,313	2,812	3,655	10,917	15,351	15,911	14,364	13,474	5,717	4,148	2,716	3,125
20%	2,933	2,517	2,966	5,034	8,795	8,835	8,642	6,694	3,989	2,481	2,157	2,525
30%	2,832	2,248	2,420	3,458	6,059	7,434	6,514	5,340	3,078	1,969	1,814	2,256
40%	2,688	2,135	2,145	2,627	4,793	4,228	5,560	5,094	2,549	1,785	1,635	2,083
50%	2,442	1,994	2,092	2,417	3,155	2,861	4,882	4,513	2,182	1,512	1,504	1,898
60%	2,179	1,929	1,966	2,326	2,497	2,431	3,387	3,313	1,744	1,400	1,413	1,794
70%	2,010	1,829	1,869	2,040	2,192	2,140	3,180	2,715	1,302	1,118	1,232	1,646
80%	1,879	1,738	1,727	1,765	1,998	1,833	2,430	2,328	1,165	1,023	1,163	1,530
90%	1,386	1,608	1,567	1,588	1,833	1,658	1,634	1,792	1,036	880	1,065	1,428
Long Term												
Full Simulation Period[a]	2,521	2,378	3,230	5,067	6,352	6,763	6,292	6,072	3,209	2,190	1,715	2,146
Water Year Types[b]												
Wet (32%)	2,744	2,418	4,556	9,811	13,196	15,234	12,458	12,636	6,822	4,350	2,648	3,129
Above Normal (15%)	2,596	3,208	4,593	6,011	6,680	6,365	6,044	5,094	2,682	1,808	1,704	2,167
Below Normal (17%)	2,349	1,997	2,060	2,255	2,849	2,476	3,924	3,662	1,876	1,392	1,383	1,752
Dry (22%)	2,792	2,253	2,163	2,236	2,246	2,146	3,113	2,825	1,295	1,107	1,230	1,645
Critical (15%)	2,032	1,898	1,694	1,592	1,943	1,688	1,797	1,799	956	860	988	1,379

Alternative 1A,1B,1C (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	-433	-1	0	-2	4	-3	0	2	0	1
20%	1	111	161	315	1	-1	2	2	8	20	2	4
30%	2	17	28	271	-2	1	1	3	1	2	7	4
40%	-1	7	7	-10	-87	0	0	5	7	7	2	4
50%	3	0	23	46	-141	1	0	2	2	6	12	5
60%	1	0	9	29	1	0	1	4	1	13	16	3
70%	0	0	0	23	0	1	2	0	0	10	11	3
80%	1	1	0	-27	0	0	0	2	3	9	-4	2
90%	0	0	0	1	0	0	0	2	-1	-4	0	5
Long Term												
Full Simulation Period[a]	6	10	19	49	-9	0	1	3	3	6	4	2
Water Year Types[b]												
Wet (32%)	18	6	52	130	5	-1	1	3	2	5	3	2
Above Normal (15%)	1	14	26	0	-41	0	1	2	4	7	5	2
Below Normal (17%)	1	0	-4	35	8	0	2	5	6	11	8	4
Dry (22%)	1	35	-3	35	-24	0	1	2	4	7	4	2
Critical (15%)	1	0	0	0	1	0	1	1	1	2	1	1

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the San Joaquin River Basin 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-23-15. San Joaquin River at Vernalis, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,313	2,812	4,087	10,918	15,352	15,914	14,360	13,477	5,717	4,146	2,716	3,124
20%	2,932	2,406	2,806	4,719	8,794	8,835	8,640	6,693	3,981	2,461	2,155	2,521
30%	2,830	2,231	2,392	3,187	6,061	7,433	6,513	5,338	3,077	1,968	1,807	2,252
40%	2,689	2,128	2,138	2,637	4,880	4,228	5,560	5,089	2,542	1,779	1,634	2,079
50%	2,439	1,994	2,070	2,371	3,296	2,861	4,882	4,511	2,180	1,506	1,492	1,893
60%	2,179	1,929	1,957	2,298	2,496	2,431	3,386	3,309	1,743	1,388	1,397	1,791
70%	2,010	1,829	1,868	2,017	2,192	2,139	3,177	2,715	1,303	1,108	1,221	1,644
80%	1,878	1,737	1,727	1,792	1,998	1,834	2,430	2,326	1,162	1,014	1,167	1,527
90%	1,386	1,608	1,567	1,588	1,833	1,658	1,634	1,789	1,038	884	1,066	1,423
Long Term												
Full Simulation Period[a]	2,515	2,367	3,211	5,018	6,361	6,763	6,291	6,069	3,206	2,184	1,710	2,144
Water Year Types[b]												
Wet (32%)	2,726	2,411	4,504	9,681	13,191	15,235	12,457	12,632	6,820	4,345	2,645	3,127
Above Normal (15%)	2,595	3,193	4,567	6,011	6,721	6,364	6,042	5,092	2,678	1,801	1,699	2,164
Below Normal (17%)	2,348	1,997	2,065	2,220	2,841	2,476	3,922	3,657	1,870	1,381	1,375	1,748
Dry (22%)	2,790	2,217	2,166	2,202	2,269	2,146	3,112	2,823	1,291	1,100	1,225	1,643
Critical (15%)	2,031	1,898	1,694	1,592	1,941	1,688	1,796	1,798	956	858	987	1,378

Alternative 2A,2B,2C (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,313	2,812	4,421	10,915	15,353	15,922	14,365	13,475	5,718	4,147	2,716	3,125
20%	2,933	2,406	2,808	4,914	8,795	8,835	8,640	6,693	3,988	2,465	2,157	2,525
30%	2,831	2,231	2,324	3,264	6,061	7,434	6,512	5,334	3,078	1,969	1,803	2,255
40%	2,689	2,128	2,141	2,579	4,748	4,228	5,560	5,091	2,547	1,783	1,634	2,082
50%	2,439	1,994	2,026	2,383	3,289	2,861	4,882	4,506	2,181	1,513	1,493	1,894
60%	2,179	1,929	1,936	2,204	2,431	2,431	3,386	3,310	1,744	1,390	1,409	1,794
70%	2,010	1,829	1,858	2,038	2,192	2,139	3,178	2,714	1,304	1,108	1,232	1,645
80%	1,878	1,738	1,727	1,764	1,998	1,834	2,430	2,326	1,162	1,019	1,168	1,529
90%	1,386	1,608	1,567	1,588	1,833	1,658	1,634	1,786	1,039	880	1,065	1,423
Long Term												
Full Simulation Period[a]	2,502	2,370	3,214	5,009	6,348	6,762	6,292	6,069	3,207	2,186	1,712	2,145
Water Year Types[b]												
Wet (32%)	2,681	2,415	4,511	9,689	13,181	15,230	12,462	12,633	6,820	4,348	2,647	3,128
Above Normal (15%)	2,595	3,202	4,601	5,968	6,678	6,365	6,043	5,092	2,680	1,805	1,702	2,166
Below Normal (17%)	2,348	1,995	2,062	2,182	2,853	2,476	3,923	3,659	1,873	1,387	1,379	1,750
Dry (22%)	2,791	2,220	2,153	2,222	2,245	2,146	3,112	2,823	1,292	1,101	1,226	1,643
Critical (15%)	2,028	1,898	1,681	1,591	1,942	1,688	1,796	1,797	956	858	987	1,379

Alternative 2A,2B,2C (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	334	-4	1	9	4	-2	0	1	0	0
20%	1	0	2	195	0	0	0	0	7	4	2	3
30%	1	0	-68	77	0	0	-1	-4	1	1	-3	3
40%	0	0	3	-59	-132	0	0	3	5	5	0	3
50%	0	0	-44	12	-7	0	0	-5	1	7	1	0
60%	1	0	-21	-94	-65	0	0	1	1	2	12	3
70%	0	0	-10	20	0	0	0	0	1	0	11	1
80%	0	0	0	-28	0	0	0	0	0	5	1	2
90%	0	0	0	0	0	0	0	-3	1	-4	-1	0
Long Term												
Full Simulation Period[a]	-13	3	3	-9	-13	-1	2	1	1	3	2	1
Water Year Types[b]												
Wet (32%)	-45	4	7	8	-10	-5	5	1	0	3	2	1
Above Normal (15%)	0	9	34	-42	-43	0	0	0	2	4	3	1
Below Normal (17%)	1	-1	-3	-38	13	0	1	3	3	6	4	2
Dry (22%)	1	2	-13	21	-24	0	0	1	1	1	1	0
Critical (15%)	-3	0	-13	0	1	0	0	-1	0	0	0	1

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the San Joaquin River Basin 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-23-16. San Joaquin River at Vernalis, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,313	2,812	4,087	10,918	15,352	15,914	14,360	13,477	5,717	4,146	2,716	3,124
20%	2,932	2,406	2,806	4,719	8,794	8,835	8,640	6,693	3,981	2,461	2,155	2,521
30%	2,830	2,231	2,392	3,187	6,061	7,433	6,513	5,338	3,077	1,968	1,807	2,252
40%	2,689	2,128	2,138	2,637	4,880	4,228	5,560	5,089	2,542	1,779	1,634	2,079
50%	2,439	1,994	2,070	2,371	3,296	2,861	4,882	4,511	2,180	1,506	1,492	1,893
60%	2,179	1,929	1,957	2,298	2,496	2,431	3,386	3,309	1,743	1,388	1,397	1,791
70%	2,010	1,829	1,868	2,017	2,192	2,139	3,177	2,715	1,303	1,108	1,221	1,644
80%	1,878	1,737	1,727	1,792	1,998	1,834	2,430	2,326	1,162	1,014	1,167	1,527
90%	1,386	1,608	1,567	1,588	1,833	1,658	1,634	1,789	1,038	884	1,066	1,423
Long Term												
Full Simulation Period[a]	2,515	2,367	3,211	5,018	6,361	6,763	6,291	6,069	3,206	2,184	1,710	2,144
Water Year Types[b]												
Wet (32%)	2,726	2,411	4,504	9,681	13,191	15,235	12,457	12,632	6,820	4,345	2,645	3,127
Above Normal (15%)	2,595	3,193	4,567	6,011	6,721	6,364	6,042	5,092	2,678	1,801	1,699	2,164
Below Normal (17%)	2,348	1,997	2,065	2,220	2,841	2,476	3,922	3,657	1,870	1,381	1,375	1,748
Dry (22%)	2,790	2,217	2,166	2,202	2,269	2,146	3,112	2,823	1,291	1,100	1,225	1,643
Critical (15%)	2,031	1,898	1,694	1,592	1,941	1,688	1,796	1,798	956	858	987	1,378

Alternative 3 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,313	2,799	3,665	10,913	15,354	15,911	14,368	13,485	5,717	4,148	2,716	3,125
20%	2,933	2,407	2,908	5,033	8,795	8,835	8,642	6,694	3,989	2,481	2,157	2,525
30%	2,832	2,248	2,428	3,344	6,062	7,434	6,514	5,340	3,077	1,970	1,813	2,256
40%	2,688	2,135	2,141	2,671	4,861	4,228	5,560	5,094	2,549	1,784	1,635	2,083
50%	2,442	1,994	2,083	2,415	3,155	2,861	4,882	4,513	2,181	1,512	1,503	1,898
60%	2,179	1,929	1,947	2,336	2,497	2,432	3,387	3,313	1,745	1,400	1,413	1,794
70%	2,010	1,829	1,858	2,021	2,192	2,140	3,179	2,713	1,302	1,118	1,232	1,646
80%	1,879	1,738	1,727	1,765	1,998	1,834	2,430	2,328	1,163	1,023	1,162	1,530
90%	1,386	1,608	1,567	1,588	1,833	1,658	1,634	1,791	1,036	880	1,065	1,428
Long Term												
Full Simulation Period[a]	2,521	2,367	3,227	5,056	6,354	6,765	6,289	6,072	3,209	2,190	1,714	2,146
Water Year Types[b]												
Wet (32%)	2,744	2,418	4,547	9,794	13,195	15,242	12,449	12,638	6,823	4,350	2,648	3,129
Above Normal (15%)	2,596	3,154	4,585	5,988	6,693	6,365	6,043	5,094	2,681	1,807	1,704	2,166
Below Normal (17%)	2,349	1,997	2,083	2,248	2,845	2,476	3,924	3,661	1,875	1,391	1,382	1,752
Dry (22%)	2,792	2,253	2,163	2,236	2,246	2,146	3,113	2,825	1,295	1,107	1,230	1,645
Critical (15%)	2,032	1,898	1,681	1,592	1,942	1,688	1,796	1,798	956	860	988	1,380

Alternative 3 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	-12	-422	-5	2	-2	8	8	0	2	0	1
20%	1	0	102	314	1	-1	2	1	8	20	2	4
30%	2	17	36	157	1	1	1	2	1	2	7	4
40%	-1	7	3	34	-19	0	0	5	7	6	2	4
50%	3	0	13	45	-141	1	0	2	1	7	11	5
60%	0	0	-10	38	1	0	1	4	2	13	16	3
70%	0	0	-10	4	0	1	2	-1	-1	10	11	3
80%	1	1	0	-27	0	0	0	2	1	9	-5	3
90%	0	0	0	1	0	0	0	2	-1	-4	-1	5
Long Term												
Full Simulation Period[a]	6	0	16	38	-7	2	-2	3	3	6	4	2
Water Year Types[b]												
Wet (32%)	18	6	43	112	4	7	-8	5	3	5	4	2
Above Normal (15%)	1	-39	18	-23	-28	0	1	2	3	6	5	2
Below Normal (17%)	1	0	18	28	4	0	1	5	6	11	8	4
Dry (22%)	1	35	-3	34	-24	0	1	2	5	7	5	2
Critical (15%)	1	0	-13	0	1	0	0	0	1	2	1	2

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the San Joaquin River Basin 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-23-17. San Joaquin River at Vernalis, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,313	2,812	4,087	10,918	15,352	15,914	14,360	13,477	5,717	4,146	2,716	3,124
20%	2,932	2,406	2,806	4,719	8,794	8,835	8,640	6,693	3,981	2,461	2,155	2,521
30%	2,830	2,231	2,392	3,187	6,061	7,433	6,513	5,338	3,077	1,968	1,807	2,252
40%	2,689	2,128	2,138	2,637	4,880	4,228	5,560	5,089	2,542	1,779	1,634	2,079
50%	2,439	1,994	2,070	2,371	3,296	2,861	4,882	4,511	2,180	1,506	1,492	1,893
60%	2,179	1,929	1,957	2,298	2,496	2,431	3,386	3,309	1,743	1,388	1,397	1,791
70%	2,010	1,829	1,868	2,017	2,192	2,139	3,177	2,715	1,303	1,108	1,221	1,644
80%	1,878	1,737	1,727	1,792	1,998	1,834	2,430	2,326	1,162	1,014	1,167	1,527
90%	1,386	1,608	1,567	1,588	1,833	1,658	1,634	1,789	1,038	884	1,066	1,423
Long Term												
Full Simulation Period[a]	2,515	2,367	3,211	5,018	6,361	6,763	6,291	6,069	3,206	2,184	1,710	2,144
Water Year Types[b]												
Wet (32%)	2,726	2,411	4,504	9,681	13,191	15,235	12,457	12,632	6,820	4,345	2,645	3,127
Above Normal (15%)	2,595	3,193	4,567	6,011	6,721	6,364	6,042	5,092	2,678	1,801	1,699	2,164
Below Normal (17%)	2,348	1,997	2,065	2,220	2,841	2,476	3,922	3,657	1,870	1,381	1,375	1,748
Dry (22%)	2,790	2,217	2,166	2,202	2,269	2,146	3,112	2,823	1,291	1,100	1,225	1,643
Critical (15%)	2,031	1,898	1,694	1,592	1,941	1,688	1,796	1,798	956	858	987	1,378

Alternative 4 H1 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,313	2,812	4,475	10,913	15,309	15,911	14,369	13,479	5,718	4,148	2,716	3,125
20%	2,933	2,521	2,815	4,954	8,795	8,835	8,642	6,693	3,988	2,476	2,157	2,525
30%	2,832	2,248	2,428	3,306	6,059	7,434	6,514	5,340	3,079	1,969	1,806	2,255
40%	2,689	2,135	2,141	2,579	4,748	4,228	5,559	5,094	2,542	1,786	1,634	2,080
50%	2,442	1,994	2,054	2,405	3,155	2,861	4,882	4,511	2,181	1,513	1,503	1,898
60%	2,180	1,929	1,936	2,210	2,470	2,432	3,387	3,313	1,745	1,399	1,412	1,794
70%	2,010	1,829	1,858	2,038	2,192	2,140	3,180	2,716	1,304	1,119	1,230	1,646
80%	1,879	1,738	1,727	1,793	1,998	1,834	2,430	2,329	1,165	1,020	1,168	1,529
90%	1,386	1,608	1,567	1,588	1,833	1,658	1,634	1,791	1,038	886	1,067	1,426
Long Term												
Full Simulation Period[a]	2,503	2,370	3,241	5,024	6,338	6,766	6,289	6,071	3,209	2,190	1,714	2,146
Water Year Types[b]												
Wet (32%)	2,682	2,416	4,555	9,714	13,178	15,246	12,450	12,634	6,822	4,350	2,648	3,129
Above Normal (15%)	2,596	3,170	4,642	5,997	6,677	6,365	6,043	5,093	2,680	1,806	1,703	2,166
Below Normal (17%)	2,349	1,997	2,083	2,195	2,795	2,476	3,924	3,661	1,876	1,392	1,383	1,752
Dry (22%)	2,791	2,253	2,168	2,222	2,245	2,147	3,113	2,825	1,295	1,107	1,230	1,645
Critical (15%)	2,032	1,898	1,681	1,592	1,942	1,688	1,796	1,799	957	861	988	1,380

Alternative 4 H1 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	388	-6	-43	-2	9	2	0	2	0	0
20%	1	115	9	235	1	-1	2	0	7	15	2	4
30%	2	17	37	119	-3	1	1	2	2	1	-1	4
40%	0	7	3	-59	-132	0	-1	5	0	7	1	1
50%	3	0	-16	34	-141	1	0	0	1	8	10	5
60%	1	0	-21	-87	-26	0	0	3	3	12	15	3
70%	0	0	-10	20	0	1	2	1	2	11	9	3
80%	1	1	0	1	0	0	0	3	4	6	1	2
90%	0	0	0	1	0	0	0	1	1	2	1	2
Long Term												
Full Simulation Period[a]	-12	2	30	6	-23	3	-2	2	3	6	4	2
Water Year Types[b]												
Wet (32%)	-44	4	51	33	-13	10	-7	2	1	5	3	2
Above Normal (15%)	1	-23	75	-14	-44	0	0	1	2	5	3	2
Below Normal (17%)	1	0	18	-25	-46	0	1	5	6	11	8	4
Dry (22%)	1	36	2	20	-24	0	1	3	4	7	4	2
Critical (15%)	1	0	-13	0	1	0	0	1	1	3	1	3

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the San Joaquin River Basin 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-23-18. San Joaquin River at Vernalis, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,313	2,812	4,087	10,918	15,352	15,914	14,360	13,477	5,717	4,146	2,716	3,124
20%	2,932	2,406	2,806	4,719	8,794	8,835	8,640	6,693	3,981	2,461	2,155	2,521
30%	2,830	2,231	2,392	3,187	6,061	7,433	6,513	5,338	3,077	1,968	1,807	2,252
40%	2,689	2,128	2,138	2,637	4,880	4,228	5,560	5,089	2,542	1,779	1,634	2,079
50%	2,439	1,994	2,070	2,371	3,296	2,861	4,882	4,511	2,180	1,506	1,492	1,893
60%	2,179	1,929	1,957	2,298	2,496	2,431	3,386	3,309	1,743	1,388	1,397	1,791
70%	2,010	1,829	1,868	2,017	2,192	2,139	3,177	2,715	1,303	1,108	1,221	1,644
80%	1,878	1,737	1,727	1,792	1,998	1,834	2,430	2,326	1,162	1,014	1,167	1,527
90%	1,386	1,608	1,567	1,588	1,833	1,658	1,634	1,789	1,038	884	1,066	1,423
Long Term												
Full Simulation Period[a]	2,515	2,367	3,211	5,018	6,361	6,763	6,291	6,069	3,206	2,184	1,710	2,144
Water Year Types[b]												
Wet (32%)	2,726	2,411	4,504	9,681	13,191	15,235	12,457	12,632	6,820	4,345	2,645	3,127
Above Normal (15%)	2,595	3,193	4,567	6,011	6,721	6,364	6,042	5,092	2,678	1,801	1,699	2,164
Below Normal (17%)	2,348	1,997	2,065	2,220	2,841	2,476	3,922	3,657	1,870	1,381	1,375	1,748
Dry (22%)	2,790	2,217	2,166	2,202	2,269	2,146	3,112	2,823	1,291	1,100	1,225	1,643
Critical (15%)	2,031	1,898	1,694	1,592	1,941	1,688	1,796	1,798	956	858	987	1,378

Alternative 4 H2 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,313	2,745	4,400	10,917	15,343	15,912	14,367	13,476	5,718	4,146	2,716	3,125
20%	2,932	2,405	2,942	5,011	8,795	8,835	8,640	6,694	3,988	2,478	2,157	2,525
30%	2,832	2,248	2,391	3,265	6,059	7,434	6,514	5,339	3,075	1,970	1,805	2,255
40%	2,689	2,135	2,138	2,676	4,881	4,228	5,560	5,092	2,548	1,784	1,635	2,082
50%	2,441	1,994	2,083	2,415	3,155	2,861	4,882	4,526	2,181	1,513	1,500	1,896
60%	2,179	1,929	1,947	2,213	2,431	2,432	3,387	3,311	1,744	1,399	1,413	1,794
70%	2,010	1,829	1,869	2,081	2,192	2,140	3,179	2,716	1,303	1,109	1,225	1,646
80%	1,879	1,738	1,727	1,793	1,998	1,834	2,423	2,329	1,165	1,012	1,168	1,527
90%	1,386	1,608	1,567	1,588	1,833	1,658	1,627	1,793	1,035	885	1,065	1,425
Long Term												
Full Simulation Period[a]	2,516	2,363	3,226	5,053	6,357	6,763	6,291	6,070	3,209	2,188	1,713	2,146
Water Year Types[b]												
Wet (32%)	2,727	2,404	4,525	9,723	13,192	15,235	12,459	12,633	6,825	4,349	2,648	3,128
Above Normal (15%)	2,596	3,154	4,593	6,012	6,765	6,365	6,043	5,095	2,681	1,807	1,703	2,166
Below Normal (17%)	2,348	1,997	2,083	2,327	2,781	2,476	3,924	3,660	1,874	1,389	1,381	1,751
Dry (22%)	2,791	2,250	2,186	2,235	2,245	2,146	3,112	2,824	1,294	1,104	1,228	1,644
Critical (15%)	2,032	1,898	1,684	1,592	1,942	1,687	1,795	1,798	953	857	985	1,380

Alternative 4 H2 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	-67	312	-1	-8	-2	7	-1	0	0	0	0
20%	1	-1	136	292	1	-1	0	2	7	17	2	4
30%	2	17	-1	78	-3	1	1	1	-1	2	-1	4
40%	0	7	0	39	0	0	0	4	6	5	1	4
50%	2	0	13	44	-141	1	0	14	2	7	7	3
60%	1	0	-10	-85	-65	0	1	1	2	11	16	3
70%	0	0	0	63	1	1	2	1	1	1	3	2
80%	0	1	0	1	0	0	-7	3	3	-2	1	0
90%	0	0	0	0	0	0	-7	4	-3	1	-1	2
Long Term												
Full Simulation Period[a]	1	-5	15	35	-4	0	1	2	3	4	3	2
Water Year Types[b]												
Wet (32%)	1	-8	21	42	1	0	2	1	5	4	3	1
Above Normal (15%)	1	-39	26	2	44	0	0	3	3	6	4	2
Below Normal (17%)	1	0	18	107	-59	0	1	3	5	9	6	3
Dry (22%)	1	33	20	33	-24	0	0	1	3	4	3	2
Critical (15%)	1	0	-10	0	1	-1	-1	0	-2	-1	-3	2

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the San Joaquin River Basin 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-23-19. San Joaquin River at Vernalis, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,313	2,812	4,087	10,918	15,352	15,914	14,360	13,477	5,717	4,146	2,716	3,124
20%	2,932	2,406	2,806	4,719	8,794	8,835	8,640	6,693	3,981	2,461	2,155	2,521
30%	2,830	2,231	2,392	3,187	6,061	7,433	6,513	5,338	3,077	1,968	1,807	2,252
40%	2,689	2,128	2,138	2,637	4,880	4,228	5,560	5,089	2,542	1,779	1,634	2,079
50%	2,439	1,994	2,070	2,371	3,296	2,861	4,882	4,511	2,180	1,506	1,492	1,893
60%	2,179	1,929	1,957	2,298	2,496	2,431	3,386	3,309	1,743	1,388	1,397	1,791
70%	2,010	1,829	1,868	2,017	2,192	2,139	3,177	2,715	1,303	1,108	1,221	1,644
80%	1,878	1,737	1,727	1,792	1,998	1,834	2,430	2,326	1,162	1,014	1,167	1,527
90%	1,386	1,608	1,567	1,588	1,833	1,658	1,634	1,789	1,038	884	1,066	1,423
Long Term												
Full Simulation Period[a]	2,515	2,367	3,211	5,018	6,361	6,763	6,291	6,069	3,206	2,184	1,710	2,144
Water Year Types[b]												
Wet (32%)	2,726	2,411	4,504	9,681	13,191	15,235	12,457	12,632	6,820	4,345	2,645	3,127
Above Normal (15%)	2,595	3,193	4,567	6,011	6,721	6,364	6,042	5,092	2,678	1,801	1,699	2,164
Below Normal (17%)	2,348	1,997	2,065	2,220	2,841	2,476	3,922	3,657	1,870	1,381	1,375	1,748
Dry (22%)	2,790	2,217	2,166	2,202	2,269	2,146	3,112	2,823	1,291	1,100	1,225	1,643
Critical (15%)	2,031	1,898	1,694	1,592	1,941	1,688	1,796	1,798	956	858	987	1,378

Alternative 4 H3 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,313	2,799	4,421	10,917	15,349	15,922	14,368	13,478	5,718	4,146	2,716	3,125
20%	2,933	2,406	2,950	4,962	8,795	8,835	8,638	6,693	3,988	2,462	2,157	2,525
30%	2,831	2,248	2,389	3,264	6,061	7,433	6,512	5,334	3,078	1,969	1,803	2,255
40%	2,689	2,135	2,138	2,579	4,818	4,228	5,559	5,090	2,542	1,784	1,634	2,079
50%	2,439	1,994	2,083	2,398	3,154	2,861	4,882	4,506	2,181	1,512	1,493	1,894
60%	2,179	1,929	1,946	2,289	2,469	2,431	3,387	3,310	1,745	1,390	1,410	1,793
70%	2,010	1,829	1,869	2,004	2,192	2,139	3,177	2,713	1,304	1,108	1,231	1,645
80%	1,878	1,738	1,727	1,781	1,998	1,834	2,430	2,326	1,162	1,019	1,168	1,529
90%	1,386	1,608	1,567	1,588	1,833	1,658	1,634	1,786	1,040	884	1,066	1,424
Long Term												
Full Simulation Period[a]	2,511	2,361	3,225	5,025	6,351	6,763	6,291	6,069	3,207	2,186	1,712	2,145
Water Year Types[b]												
Wet (32%)	2,712	2,418	4,492	9,675	13,182	15,236	12,460	12,633	6,820	4,347	2,646	3,128
Above Normal (15%)	2,595	3,123	4,643	6,037	6,701	6,365	6,042	5,092	2,679	1,804	1,702	2,166
Below Normal (17%)	2,348	1,997	2,075	2,207	2,841	2,476	3,923	3,659	1,873	1,386	1,378	1,750
Dry (22%)	2,791	2,253	2,186	2,266	2,245	2,146	3,112	2,823	1,292	1,101	1,226	1,643
Critical (15%)	2,031	1,898	1,683	1,572	1,942	1,688	1,796	1,797	956	858	987	1,379

Alternative 4 H3 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	-13	333	-1	-3	8	8	1	0	0	0	0
20%	1	0	144	243	0	0	-2	0	7	1	2	3
30%	1	16	-3	77	0	0	-1	-4	1	1	-3	4
40%	0	7	0	-59	-62	0	-1	2	0	5	0	1
50%	0	0	13	28	-142	0	0	-5	1	6	1	0
60%	1	0	-11	-8	-26	0	0	1	2	3	14	2
70%	0	0	0	-14	0	0	0	-2	1	0	10	1
80%	0	1	0	-11	0	0	0	0	0	5	1	1
90%	0	0	0	0	0	0	0	-3	2	0	0	0
Long Term												
Full Simulation Period[a]	-4	-6	14	8	-10	0	1	1	1	2	2	1
Water Year Types[b]												
Wet (32%)	-14	6	-12	-7	-9	0	3	1	0	2	2	1
Above Normal (15%)	0	-70	76	26	-20	0	0	0	2	3	2	1
Below Normal (17%)	0	0	10	-13	1	0	0	2	3	5	4	2
Dry (22%)	1	35	20	65	-24	0	0	1	1	1	1	0
Critical (15%)	0	0	-11	-19	1	0	0	-1	0	0	0	1

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the San Joaquin River Basin 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-23-20. San Joaquin River at Vernalis, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,313	2,812	4,087	10,918	15,352	15,914	14,360	13,477	5,717	4,146	2,716	3,124
20%	2,932	2,406	2,806	4,719	8,794	8,835	8,640	6,693	3,981	2,461	2,155	2,521
30%	2,830	2,231	2,392	3,187	6,061	7,433	6,513	5,338	3,077	1,968	1,807	2,252
40%	2,689	2,128	2,138	2,637	4,880	4,228	5,560	5,089	2,542	1,779	1,634	2,079
50%	2,439	1,994	2,070	2,371	3,296	2,861	4,882	4,511	2,180	1,506	1,492	1,893
60%	2,179	1,929	1,957	2,298	2,496	2,431	3,386	3,309	1,743	1,388	1,397	1,791
70%	2,010	1,829	1,868	2,017	2,192	2,139	3,177	2,715	1,303	1,108	1,221	1,644
80%	1,878	1,737	1,727	1,792	1,998	1,834	2,430	2,326	1,162	1,014	1,167	1,527
90%	1,386	1,608	1,567	1,588	1,833	1,658	1,634	1,789	1,038	884	1,066	1,423
Long Term												
Full Simulation Period[a]	2,515	2,367	3,211	5,018	6,361	6,763	6,291	6,069	3,206	2,184	1,710	2,144
Water Year Types[b]												
Wet (32%)	2,726	2,411	4,504	9,681	13,191	15,235	12,457	12,632	6,820	4,345	2,645	3,127
Above Normal (15%)	2,595	3,193	4,567	6,011	6,721	6,364	6,042	5,092	2,678	1,801	1,699	2,164
Below Normal (17%)	2,348	1,997	2,065	2,220	2,841	2,476	3,922	3,657	1,870	1,381	1,375	1,748
Dry (22%)	2,790	2,217	2,166	2,202	2,269	2,146	3,112	2,823	1,291	1,100	1,225	1,643
Critical (15%)	2,031	1,898	1,694	1,592	1,941	1,688	1,796	1,798	956	858	987	1,378

Alternative 4 H4 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,313	2,799	4,404	10,923	15,346	15,917	14,368	13,487	5,718	4,145	2,716	3,125
20%	2,932	2,518	3,002	5,031	8,795	8,835	8,636	6,693	3,988	2,466	2,157	2,525
30%	2,831	2,248	2,430	3,273	6,067	7,433	6,512	5,334	3,076	1,970	1,803	2,255
40%	2,689	2,135	2,138	2,669	4,831	4,228	5,560	5,091	2,548	1,781	1,635	2,082
50%	2,439	1,994	2,083	2,427	3,154	2,861	4,882	4,506	2,181	1,514	1,493	1,893
60%	2,179	1,929	1,946	2,274	2,497	2,431	3,386	3,309	1,742	1,389	1,408	1,794
70%	2,010	1,828	1,858	2,093	2,192	2,139	3,177	2,713	1,302	1,103	1,227	1,645
80%	1,878	1,738	1,727	1,764	1,998	1,834	2,423	2,326	1,162	1,014	1,167	1,527
90%	1,386	1,608	1,567	1,588	1,833	1,658	1,626	1,789	1,035	887	1,065	1,423
Long Term												
Full Simulation Period[a]	2,511	2,375	3,232	5,062	6,351	6,765	6,288	6,070	3,207	2,185	1,711	2,145
Water Year Types[b]												
Wet (32%)	2,712	2,411	4,548	9,760	13,194	15,243	12,450	12,637	6,823	4,347	2,646	3,128
Above Normal (15%)	2,595	3,204	4,610	6,057	6,731	6,365	6,043	5,092	2,680	1,805	1,702	2,166
Below Normal (17%)	2,348	1,997	2,083	2,272	2,778	2,476	3,923	3,658	1,872	1,385	1,377	1,749
Dry (22%)	2,791	2,253	2,167	2,227	2,245	2,146	3,111	2,822	1,290	1,098	1,225	1,643
Critical (15%)	2,031	1,897	1,681	1,592	1,942	1,687	1,794	1,796	952	854	984	1,380

Alternative 4 H4 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	-13	317	4	-6	3	8	10	0	-1	0	0
20%	1	111	197	312	0	0	-4	1	7	5	2	3
30%	1	16	38	86	6	0	-1	-4	-1	2	-3	4
40%	0	7	0	31	-49	0	0	2	6	2	1	4
50%	0	0	13	57	-142	0	0	-5	2	8	0	0
60%	1	0	-11	-24	1	0	0	-1	-1	1	11	3
70%	0	0	-10	76	0	0	0	-2	-1	-5	6	1
80%	0	0	0	-28	0	0	-7	0	0	0	1	0
90%	0	0	0	0	0	0	-7	-1	-2	3	-1	0
Long Term												
Full Simulation Period[a]	-4	7	22	44	-10	2	-2	1	1	1	1	1
Water Year Types[b]												
Wet (32%)	-14	0	45	79	4	7	-7	5	3	1	1	1
Above Normal (15%)	0	11	43	46	10	0	0	0	2	4	3	1
Below Normal (17%)	0	0	19	52	-62	0	0	2	2	4	3	1
Dry (22%)	1	35	0	26	-24	0	-1	-1	-1	-2	-1	0
Critical (15%)	0	-1	-13	0	1	-1	-2	-2	-3	-4	-4	2

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the San Joaquin River Basin 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-23-21. San Joaquin River at Vernalis, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,313	2,812	4,087	10,918	15,352	15,914	14,360	13,477	5,717	4,146	2,716	3,124
20%	2,932	2,406	2,806	4,719	8,794	8,835	8,640	6,693	3,981	2,461	2,155	2,521
30%	2,830	2,231	2,392	3,187	6,061	7,433	6,513	5,338	3,077	1,968	1,807	2,252
40%	2,689	2,128	2,138	2,637	4,880	4,228	5,560	5,089	2,542	1,779	1,634	2,079
50%	2,439	1,994	2,070	2,371	3,296	2,861	4,882	4,511	2,180	1,506	1,492	1,893
60%	2,179	1,929	1,957	2,298	2,496	2,431	3,386	3,309	1,743	1,388	1,397	1,791
70%	2,010	1,829	1,868	2,017	2,192	2,139	3,177	2,715	1,303	1,108	1,221	1,644
80%	1,878	1,737	1,727	1,792	1,998	1,834	2,430	2,326	1,162	1,014	1,167	1,527
90%	1,386	1,608	1,567	1,588	1,833	1,658	1,634	1,789	1,038	884	1,066	1,423
Long Term												
Full Simulation Period[a]	2,515	2,367	3,211	5,018	6,361	6,763	6,291	6,069	3,206	2,184	1,710	2,144
Water Year Types[b]												
Wet (32%)	2,726	2,411	4,504	9,681	13,191	15,235	12,457	12,632	6,820	4,345	2,645	3,127
Above Normal (15%)	2,595	3,193	4,567	6,011	6,721	6,364	6,042	5,092	2,678	1,801	1,699	2,164
Below Normal (17%)	2,348	1,997	2,065	2,220	2,841	2,476	3,922	3,657	1,870	1,381	1,375	1,748
Dry (22%)	2,790	2,217	2,166	2,202	2,269	2,146	3,112	2,823	1,291	1,100	1,225	1,643
Critical (15%)	2,031	1,898	1,694	1,592	1,941	1,688	1,796	1,798	956	858	987	1,378

Alternative 5 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,313	2,812	4,209	10,916	15,353	15,913	14,365	13,480	5,717	4,147	2,716	3,125
20%	2,933	2,613	2,850	4,964	8,794	8,835	8,642	6,692	3,986	2,470	2,156	2,524
30%	2,831	2,250	2,420	3,187	6,062	7,434	6,515	5,335	3,077	1,969	1,806	2,255
40%	2,688	2,135	2,138	2,658	4,799	4,228	5,561	5,091	2,550	1,782	1,634	2,083
50%	2,439	1,994	2,083	2,415	3,296	2,861	4,883	4,507	2,181	1,513	1,494	1,894
60%	2,179	1,929	1,966	2,335	2,497	2,431	3,387	3,310	1,744	1,393	1,409	1,793
70%	2,010	1,829	1,869	2,040	2,192	2,139	3,179	2,715	1,303	1,108	1,230	1,645
80%	1,878	1,738	1,727	1,788	1,998	1,833	2,430	2,325	1,162	1,020	1,167	1,529
90%	1,386	1,608	1,567	1,588	1,833	1,658	1,634	1,787	1,044	882	1,064	1,423
Long Term												
Full Simulation Period[a]	2,509	2,368	3,235	5,038	6,355	6,763	6,291	6,070	3,207	2,186	1,712	2,145
Water Year Types[b]												
Wet (32%)	2,712	2,418	4,559	9,742	13,199	15,234	12,458	12,634	6,819	4,347	2,646	3,128
Above Normal (15%)	2,585	3,132	4,594	5,991	6,683	6,365	6,043	5,093	2,680	1,805	1,702	2,166
Below Normal (17%)	2,348	2,029	2,072	2,238	2,832	2,476	3,924	3,659	1,873	1,387	1,379	1,750
Dry (22%)	2,792	2,252	2,179	2,224	2,269	2,146	3,112	2,824	1,292	1,102	1,226	1,643
Critical (15%)	2,031	1,898	1,694	1,592	1,942	1,688	1,796	1,797	956	858	987	1,380

Alternative 5 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	121	-2	1	-1	5	3	0	1	0	0
20%	1	207	44	245	0	0	1	0	5	9	1	2
30%	1	19	28	0	0	1	1	-3	0	1	-1	4
40%	0	7	0	21	-81	0	1	3	8	3	0	4
50%	0	0	13	44	0	0	1	-4	1	7	2	1
60%	1	0	9	37	1	0	1	1	2	6	12	2
70%	0	0	0	23	0	0	1	0	1	0	9	2
80%	0	1	0	-4	0	-1	0	-1	0	6	0	1
90%	0	0	0	0	0	0	0	-3	6	-2	-2	0
Long Term												
Full Simulation Period[a]	-6	1	25	20	-6	0	1	1	1	2	2	1
Water Year Types[b]												
Wet (32%)	-14	7	55	61	8	-1	1	2	-1	1	1	1
Above Normal (15%)	-10	-62	27	-19	-38	0	1	0	2	4	3	1
Below Normal (17%)	1	33	8	18	-8	0	1	3	3	6	4	2
Dry (22%)	1	35	13	22	0	0	0	1	1	2	1	1
Critical (15%)	0	0	0	0	1	0	0	-1	0	0	0	2

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the San Joaquin River Basin 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-23-22. San Joaquin River at Vernalis, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,313	2,812	4,087	10,918	15,352	15,914	14,360	13,477	5,717	4,146	2,716	3,124
20%	2,932	2,406	2,806	4,719	8,794	8,835	8,640	6,693	3,981	2,461	2,155	2,521
30%	2,830	2,231	2,392	3,187	6,061	7,433	6,513	5,338	3,077	1,968	1,807	2,252
40%	2,689	2,128	2,138	2,637	4,880	4,228	5,560	5,089	2,542	1,779	1,634	2,079
50%	2,439	1,994	2,070	2,371	3,296	2,861	4,882	4,511	2,180	1,506	1,492	1,893
60%	2,179	1,929	1,957	2,298	2,496	2,431	3,386	3,309	1,743	1,388	1,397	1,791
70%	2,010	1,829	1,868	2,017	2,192	2,139	3,177	2,715	1,303	1,108	1,221	1,644
80%	1,878	1,737	1,727	1,792	1,998	1,834	2,430	2,326	1,162	1,014	1,167	1,527
90%	1,386	1,608	1,567	1,588	1,833	1,658	1,634	1,789	1,038	884	1,066	1,423
Long Term												
Full Simulation Period[a]	2,515	2,367	3,211	5,018	6,361	6,763	6,291	6,069	3,206	2,184	1,710	2,144
Water Year Types[b]												
Wet (32%)	2,726	2,411	4,504	9,681	13,191	15,235	12,457	12,632	6,820	4,345	2,645	3,127
Above Normal (15%)	2,595	3,193	4,567	6,011	6,721	6,364	6,042	5,092	2,678	1,801	1,699	2,164
Below Normal (17%)	2,348	1,997	2,065	2,220	2,841	2,476	3,922	3,657	1,870	1,381	1,375	1,748
Dry (22%)	2,790	2,217	2,166	2,202	2,269	2,146	3,112	2,823	1,291	1,100	1,225	1,643
Critical (15%)	2,031	1,898	1,694	1,592	1,941	1,688	1,796	1,798	956	858	987	1,378

Alternative 6A,6B,6C (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,313	2,830	4,424	10,920	15,279	15,920	13,811	12,872	5,807	4,146	2,716	3,124
20%	2,932	2,655	2,802	5,317	8,768	8,740	8,508	6,690	3,980	2,454	2,155	2,520
30%	2,829	2,267	2,431	3,272	6,071	7,433	6,511	5,329	3,071	1,967	1,796	2,252
40%	2,674	2,134	2,138	2,614	4,880	4,228	5,559	5,089	2,539	1,773	1,634	2,081
50%	2,438	1,994	2,053	2,415	3,153	2,861	4,882	4,507	2,177	1,504	1,490	1,891
60%	2,177	1,929	1,944	2,315	2,496	2,430	3,405	3,307	1,738	1,361	1,404	1,793
70%	2,009	1,828	1,858	2,038	2,190	2,137	3,174	2,707	1,298	1,103	1,223	1,644
80%	1,878	1,737	1,727	1,764	1,998	1,833	2,419	2,325	1,161	1,003	1,159	1,527
90%	1,386	1,608	1,567	1,587	1,833	1,658	1,625	1,767	1,037	887	1,058	1,420
Long Term												
Full Simulation Period[a]	2,518	2,384	3,229	5,069	6,354	6,758	6,267	6,054	3,210	2,176	1,707	2,141
Water Year Types[b]												
Wet (32%)	2,739	2,418	4,550	9,768	13,199	15,240	12,392	12,597	6,857	4,339	2,643	3,126
Above Normal (15%)	2,594	3,202	4,655	6,067	6,745	6,336	6,025	5,085	2,658	1,798	1,697	2,163
Below Normal (17%)	2,343	2,053	2,072	2,300	2,777	2,475	3,921	3,654	1,866	1,374	1,371	1,746
Dry (22%)	2,791	2,244	2,099	2,216	2,245	2,145	3,109	2,815	1,285	1,080	1,219	1,640
Critical (15%)	2,031	1,898	1,680	1,591	1,942	1,687	1,791	1,790	950	851	981	1,366

Alternative 6A,6B,6C (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	18	337	2	-72	6	-549	-605	89	0	0	0
20%	1	249	-4	598	-26	-95	-132	-3	-1	-7	0	-1
30%	-1	35	39	85	10	0	-2	-8	-6	-1	-11	0
40%	-15	6	0	-23	0	0	-1	0	-3	-5	0	2
50%	-1	0	-17	44	-143	0	0	-5	-3	-2	-3	-2
60%	-1	0	-13	17	0	-1	19	-2	-4	-27	7	2
70%	-2	0	-10	20	-2	-2	-4	-7	-4	-5	1	0
80%	0	0	0	-28	0	-1	-11	-1	-1	-11	-8	-1
90%	0	0	0	0	0	0	-8	-22	-1	3	-8	-4
Long Term												
Full Simulation Period[a]	3	17	18	51	-7	-5	-24	-15	4	-8	-4	-3
Water Year Types[b]												
Wet (32%)	13	6	46	86	8	4	-65	-35	37	-7	-2	-1
Above Normal (15%)	-1	9	87	57	24	-29	-17	-7	-20	-3	-2	-1
Below Normal (17%)	-5	57	7	79	-63	0	-1	-2	-4	-6	-3	-2
Dry (22%)	0	27	-67	15	-24	-1	-2	-8	-6	-19	-6	-3
Critical (15%)	0	0	-13	0	1	-1	-5	-7	-6	-7	-7	-11

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the San Joaquin River Basin 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-23-23. San Joaquin River at Vernalis, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,313	2,812	4,087	10,918	15,352	15,914	14,360	13,477	5,717	4,146	2,716	3,124
20%	2,932	2,406	2,806	4,719	8,794	8,835	8,640	6,693	3,981	2,461	2,155	2,521
30%	2,830	2,231	2,392	3,187	6,061	7,433	6,513	5,338	3,077	1,968	1,807	2,252
40%	2,689	2,128	2,138	2,637	4,880	4,228	5,560	5,089	2,542	1,779	1,634	2,079
50%	2,439	1,994	2,070	2,371	3,296	2,861	4,882	4,511	2,180	1,506	1,492	1,893
60%	2,179	1,929	1,957	2,298	2,496	2,431	3,386	3,309	1,743	1,388	1,397	1,791
70%	2,010	1,829	1,868	2,017	2,192	2,139	3,177	2,715	1,303	1,108	1,221	1,644
80%	1,878	1,737	1,727	1,792	1,998	1,834	2,430	2,326	1,162	1,014	1,167	1,527
90%	1,386	1,608	1,567	1,588	1,833	1,658	1,634	1,789	1,038	884	1,066	1,423
Long Term												
Full Simulation Period[a]	2,515	2,367	3,211	5,018	6,361	6,763	6,291	6,069	3,206	2,184	1,710	2,144
Water Year Types[b]												
Wet (32%)	2,726	2,411	4,504	9,681	13,191	15,235	12,457	12,632	6,820	4,345	2,645	3,127
Above Normal (15%)	2,595	3,193	4,567	6,011	6,721	6,364	6,042	5,092	2,678	1,801	1,699	2,164
Below Normal (17%)	2,348	1,997	2,065	2,220	2,841	2,476	3,922	3,657	1,870	1,381	1,375	1,748
Dry (22%)	2,790	2,217	2,166	2,202	2,269	2,146	3,112	2,823	1,291	1,100	1,225	1,643
Critical (15%)	2,031	1,898	1,694	1,592	1,941	1,688	1,796	1,798	956	858	987	1,378

Alternative 7 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,313	2,803	3,673	10,920	15,281	15,916	14,374	13,497	5,716	4,146	2,716	3,124
20%	2,933	2,615	3,004	5,034	8,770	8,823	8,509	6,690	3,982	2,450	2,155	2,522
30%	2,829	2,250	2,422	3,272	6,068	7,433	6,511	5,333	3,071	1,967	1,797	2,252
40%	2,675	2,134	2,141	2,616	4,749	4,227	5,558	5,088	2,538	1,779	1,634	2,077
50%	2,438	1,994	2,087	2,420	3,190	2,861	4,882	4,500	2,178	1,502	1,489	1,891
60%	2,177	1,929	1,965	2,316	2,496	2,431	3,386	3,307	1,738	1,361	1,406	1,793
70%	2,009	1,828	1,868	2,042	2,189	2,138	3,174	2,711	1,300	1,103	1,223	1,643
80%	1,878	1,738	1,727	1,792	1,998	1,831	2,419	2,326	1,161	997	1,159	1,527
90%	1,386	1,607	1,567	1,587	1,833	1,658	1,625	1,779	1,033	887	1,058	1,420
Long Term												
Full Simulation Period[a]	2,509	2,380	3,230	5,049	6,339	6,765	6,284	6,061	3,205	2,177	1,706	2,141
Water Year Types[b]												
Wet (32%)	2,709	2,418	4,536	9,754	13,169	15,243	12,452	12,620	6,837	4,338	2,643	3,126
Above Normal (15%)	2,594	3,194	4,605	6,015	6,674	6,363	6,024	5,084	2,658	1,798	1,697	2,163
Below Normal (17%)	2,347	2,029	2,061	2,256	2,824	2,476	3,921	3,655	1,867	1,376	1,372	1,746
Dry (22%)	2,791	2,251	2,187	2,226	2,245	2,145	3,106	2,816	1,284	1,083	1,219	1,640
Critical (15%)	2,027	1,898	1,693	1,591	1,941	1,687	1,792	1,791	951	852	977	1,367

Alternative 7 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	-9	-414	1	-70	3	13	20	-2	0	0	0
20%	1	209	198	315	-24	-13	-131	-2	1	-11	0	0
30%	-1	19	30	85	7	-1	-2	-5	-6	-1	-9	1
40%	-14	6	3	-22	-131	0	-2	-1	-4	0	0	-2
50%	-1	0	17	49	-106	0	0	-11	-2	-4	-4	-3
60%	-2	0	8	18	0	-1	0	-2	-5	-27	9	2
70%	-1	0	0	25	-3	-1	-3	-4	-2	-5	2	-1
80%	-1	0	0	0	0	-3	-11	-1	-1	-17	-8	-1
90%	0	-1	0	0	0	0	-8	-10	-4	3	-8	-4
Long Term												
Full Simulation Period[a]	-6	12	19	32	-22	2	-7	-8	-1	-7	-4	-3
Water Year Types[b]												
Wet (32%)	-17	6	32	72	-22	8	-5	-12	17	-7	-2	-1
Above Normal (15%)	-1	1	38	4	-47	-1	-18	-8	-20	-3	-2	-1
Below Normal (17%)	-1	33	-4	36	-16	0	-1	-2	-3	-5	-3	-1
Dry (22%)	0	33	21	24	-24	-1	-5	-7	-7	-17	-6	-3
Critical (15%)	-3	-1	0	0	0	-1	-4	-7	-5	-6	-10	-11

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the San Joaquin River Basin 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-23-24. San Joaquin River at Vernalis, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,313	2,812	4,087	10,918	15,352	15,914	14,360	13,477	5,717	4,146	2,716	3,124
20%	2,932	2,406	2,806	4,719	8,794	8,835	8,640	6,693	3,981	2,461	2,155	2,521
30%	2,830	2,231	2,392	3,187	6,061	7,433	6,513	5,338	3,077	1,968	1,807	2,252
40%	2,689	2,128	2,138	2,637	4,880	4,228	5,560	5,089	2,542	1,779	1,634	2,079
50%	2,439	1,994	2,070	2,371	3,296	2,861	4,882	4,511	2,180	1,506	1,492	1,893
60%	2,179	1,929	1,957	2,298	2,496	2,431	3,386	3,309	1,743	1,388	1,397	1,791
70%	2,010	1,829	1,868	2,017	2,192	2,139	3,177	2,715	1,303	1,108	1,221	1,644
80%	1,878	1,737	1,727	1,792	1,998	1,834	2,430	2,326	1,162	1,014	1,167	1,527
90%	1,386	1,608	1,567	1,588	1,833	1,658	1,634	1,789	1,038	884	1,066	1,423
Long Term												
Full Simulation Period[a]	2,515	2,367	3,211	5,018	6,361	6,763	6,291	6,069	3,206	2,184	1,710	2,144
Water Year Types[b]												
Wet (32%)	2,726	2,411	4,504	9,681	13,191	15,235	12,457	12,632	6,820	4,345	2,645	3,127
Above Normal (15%)	2,595	3,193	4,567	6,011	6,721	6,364	6,042	5,092	2,678	1,801	1,699	2,164
Below Normal (17%)	2,348	1,997	2,065	2,220	2,841	2,476	3,922	3,657	1,870	1,381	1,375	1,748
Dry (22%)	2,790	2,217	2,166	2,202	2,269	2,146	3,112	2,823	1,291	1,100	1,225	1,643
Critical (15%)	2,031	1,898	1,694	1,592	1,941	1,688	1,796	1,798	956	858	987	1,378

Alternative 8 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,313	2,812	4,497	10,924	15,194	15,914	14,395	13,503	5,715	4,146	2,715	3,124
20%	2,932	2,523	3,005	5,037	8,762	8,759	8,509	6,691	3,982	2,453	2,155	2,522
30%	2,829	2,261	2,428	3,271	6,071	7,433	6,511	5,331	3,071	1,966	1,799	2,250
40%	2,675	2,134	2,141	2,639	4,797	4,227	5,558	5,086	2,538	1,776	1,634	2,077
50%	2,438	1,994	2,059	2,426	3,299	2,861	4,882	4,502	2,176	1,499	1,489	1,890
60%	2,177	1,929	1,935	2,346	2,496	2,431	3,385	3,308	1,735	1,372	1,396	1,791
70%	2,008	1,828	1,858	2,018	2,189	2,138	3,174	2,709	1,300	1,103	1,214	1,642
80%	1,878	1,737	1,727	1,766	1,998	1,833	2,419	2,316	1,161	999	1,160	1,527
90%	1,386	1,608	1,567	1,587	1,833	1,658	1,625	1,779	1,032	879	1,058	1,420
Long Term												
Full Simulation Period[a]	2,511	2,364	3,251	5,064	6,348	6,759	6,284	6,061	3,206	2,176	1,704	2,140
Water Year Types[b]												
Wet (32%)	2,722	2,418	4,584	9,785	13,161	15,244	12,455	12,621	6,843	4,337	2,643	3,126
Above Normal (15%)	2,584	3,083	4,654	6,077	6,704	6,335	6,024	5,085	2,658	1,798	1,697	2,163
Below Normal (17%)	2,343	2,064	2,079	2,226	2,837	2,476	3,919	3,653	1,864	1,371	1,368	1,745
Dry (22%)	2,790	2,253	2,169	2,239	2,270	2,145	3,106	2,817	1,284	1,089	1,219	1,640
Critical (15%)	2,030	1,897	1,680	1,572	1,942	1,686	1,790	1,791	950	851	970	1,366

Alternative 8 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	410	6	-157	0	35	26	-2	0	0	0
20%	1	117	199	318	-33	-76	-131	-1	0	-8	0	0
30%	-1	29	36	84	9	-1	-2	-7	-6	-2	-8	-1
40%	-14	6	3	2	-83	0	-2	-2	-4	-2	0	-2
50%	-1	0	-11	55	3	0	0	-10	-3	-7	-4	-3
60%	-2	0	-22	49	0	-1	-1	-2	-8	-16	-1	0
70%	-2	0	-10	1	-2	-1	-4	-6	-2	-5	-7	-1
80%	-1	0	0	-27	0	-1	-11	-10	-1	-14	-7	-1
90%	0	0	0	0	-1	0	-8	-10	-5	-5	-8	-4
Long Term												
Full Simulation Period[a]	-4	-3	40	46	-13	-4	-6	-7	0	-8	-6	-4
Water Year Types[b]												
Wet (32%)	-3	6	80	104	-30	8	-2	-11	23	-8	-2	-1
Above Normal (15%)	-11	-110	87	66	-17	-29	-18	-7	-20	-3	-2	-1
Below Normal (17%)	-5	67	14	5	-3	0	-3	-4	-6	-9	-6	-3
Dry (22%)	0	35	3	38	0	-1	-5	-6	-7	-11	-6	-3
Critical (15%)	-1	-1	-14	-20	1	-1	-6	-7	-6	-7	-17	-12

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the San Joaquin River Basin 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-23-25. San Joaquin River at Vernalis, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,313	2,812	4,087	10,918	15,352	15,914	14,360	13,477	5,717	4,146	2,716	3,124
20%	2,932	2,406	2,806	4,719	8,794	8,835	8,640	6,693	3,981	2,461	2,155	2,521
30%	2,830	2,231	2,392	3,187	6,061	7,433	6,513	5,338	3,077	1,968	1,807	2,252
40%	2,689	2,128	2,138	2,637	4,880	4,228	5,560	5,089	2,542	1,779	1,634	2,079
50%	2,439	1,994	2,070	2,371	3,296	2,861	4,882	4,511	2,180	1,506	1,492	1,893
60%	2,179	1,929	1,957	2,298	2,496	2,431	3,386	3,309	1,743	1,388	1,397	1,791
70%	2,010	1,829	1,868	2,017	2,192	2,139	3,177	2,715	1,303	1,108	1,221	1,644
80%	1,878	1,737	1,727	1,792	1,998	1,834	2,430	2,326	1,162	1,014	1,167	1,527
90%	1,386	1,608	1,567	1,588	1,833	1,658	1,634	1,789	1,038	884	1,066	1,423
Long Term												
Full Simulation Period[a]	2,515	2,367	3,211	5,018	6,361	6,763	6,291	6,069	3,206	2,184	1,710	2,144
Water Year Types[b]												
Wet (32%)	2,726	2,411	4,504	9,681	13,191	15,235	12,457	12,632	6,820	4,345	2,645	3,127
Above Normal (15%)	2,595	3,193	4,567	6,011	6,721	6,364	6,042	5,092	2,678	1,801	1,699	2,164
Below Normal (17%)	2,348	1,997	2,065	2,220	2,841	2,476	3,922	3,657	1,870	1,381	1,375	1,748
Dry (22%)	2,790	2,217	2,166	2,202	2,269	2,146	3,112	2,823	1,291	1,100	1,225	1,643
Critical (15%)	2,031	1,898	1,694	1,592	1,941	1,688	1,796	1,798	956	858	987	1,378

Alternative 9 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,312	2,830	4,595	10,921	15,357	15,912	14,367	13,471	5,713	4,145	2,714	3,123
20%	2,933	2,677	2,814	4,718	8,794	8,835	8,639	6,691	3,981	2,463	2,155	2,521
30%	2,830	2,261	2,393	3,473	6,072	7,434	6,514	5,335	3,073	1,965	1,803	2,253
40%	2,688	2,135	2,141	2,661	4,880	4,228	5,560	5,092	2,544	1,776	1,634	2,080
50%	2,440	1,994	2,053	2,415	3,306	2,861	4,882	4,505	2,181	1,508	1,494	1,894
60%	2,179	1,929	1,935	2,317	2,445	2,431	3,387	3,311	1,740	1,386	1,401	1,791
70%	2,010	1,828	1,858	2,038	2,192	2,139	3,177	2,714	1,302	1,103	1,225	1,644
80%	1,878	1,738	1,727	1,792	1,998	1,831	2,423	2,326	1,162	998	1,165	1,527
90%	1,386	1,608	1,567	1,588	1,833	1,658	1,625	1,787	1,031	884	1,064	1,422
Long Term												
Full Simulation Period[a]	2,511	2,384	3,231	5,055	6,359	6,766	6,290	6,067	3,207	2,182	1,709	2,144
Water Year Types[b]												
Wet (32%)	2,712	2,418	4,580	9,778	13,202	15,245	12,455	12,630	6,826	4,344	2,643	3,126
Above Normal (15%)	2,595	3,195	4,574	6,037	6,722	6,365	6,043	5,091	2,678	1,801	1,699	2,164
Below Normal (17%)	2,348	2,052	2,073	2,241	2,808	2,476	3,923	3,658	1,871	1,383	1,376	1,749
Dry (22%)	2,791	2,253	2,155	2,204	2,271	2,145	3,110	2,820	1,289	1,094	1,224	1,642
Critical (15%)	2,031	1,898	1,681	1,592	1,941	1,687	1,794	1,795	952	853	983	1,379

Alternative 9 (LLT) minus No Action Alternative (LLT)

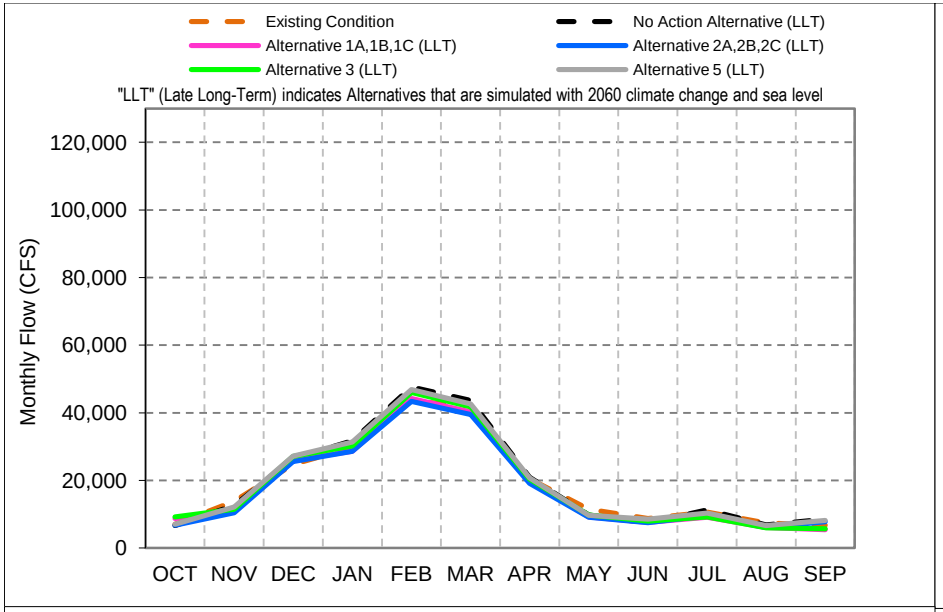
	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	18	507	2	5	-1	7	-6	-4	-1	-1	-1
20%	1	271	9	-1	0	-1	-1	-1	0	2	0	0
30%	0	29	2	286	11	0	1	-3	-3	-3	-4	1
40%	0	6	3	23	0	0	0	3	2	-2	0	1
50%	0	0	-16	44	10	0	0	-6	1	3	1	0
60%	0	0	-21	19	-51	0	1	1	-2	-2	5	0
70%	0	0	-10	20	0	0	-1	-1	-1	-5	4	1
80%	0	0	0	0	0	-3	-7	0	0	-16	-2	-1
90%	0	0	0	0	0	0	-8	-2	-7	0	-2	-1
Long Term												
Full Simulation Period[a]	-4	17	21	37	-2	3	-1	-2	1	-2	-1	0
Water Year Types[b]												
Wet (32%)	-14	7	76	97	11	10	-2	-2	6	-2	-1	-1
Above Normal (15%)	0	2	7	26	1	0	1	-1	0	0	0	0
Below Normal (17%)	0	56	8	20	-32	0	1	1	1	2	2	1
Dry (22%)	0	35	-11	3	1	-1	-2	-3	-2	-6	-1	-1
Critical (15%)	0	0	-13	0	0	-1	-2	-2	-4	-5	-4	2

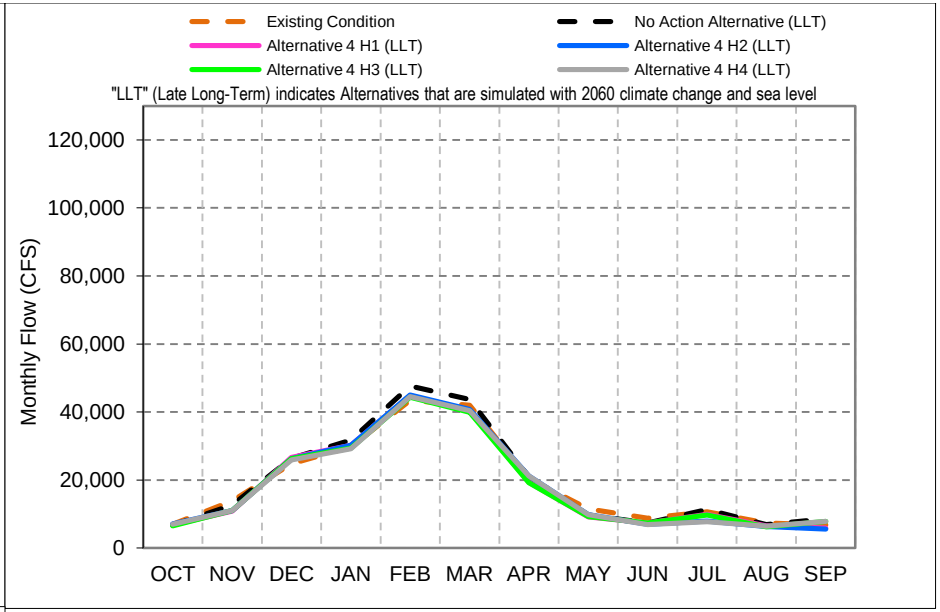
Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

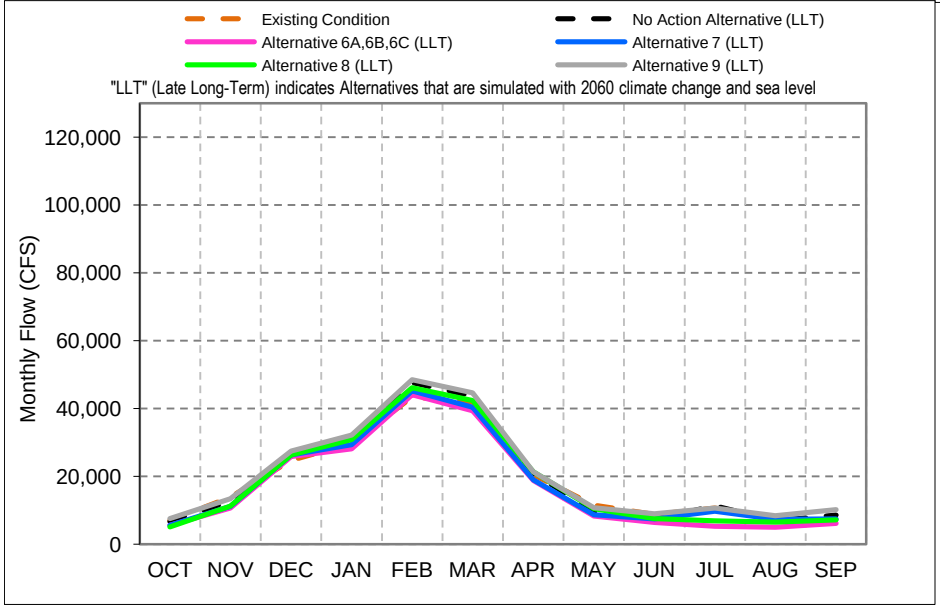
a Based on the 82-year simulation period

b As defined by the San Joaquin River Basin 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

C.24. Sacramento River Flow a Rio Vista



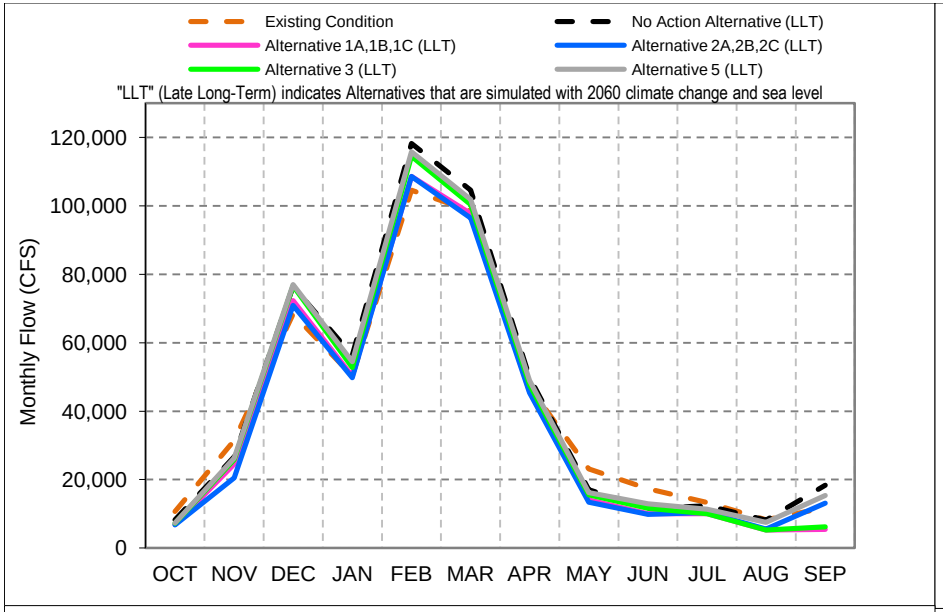


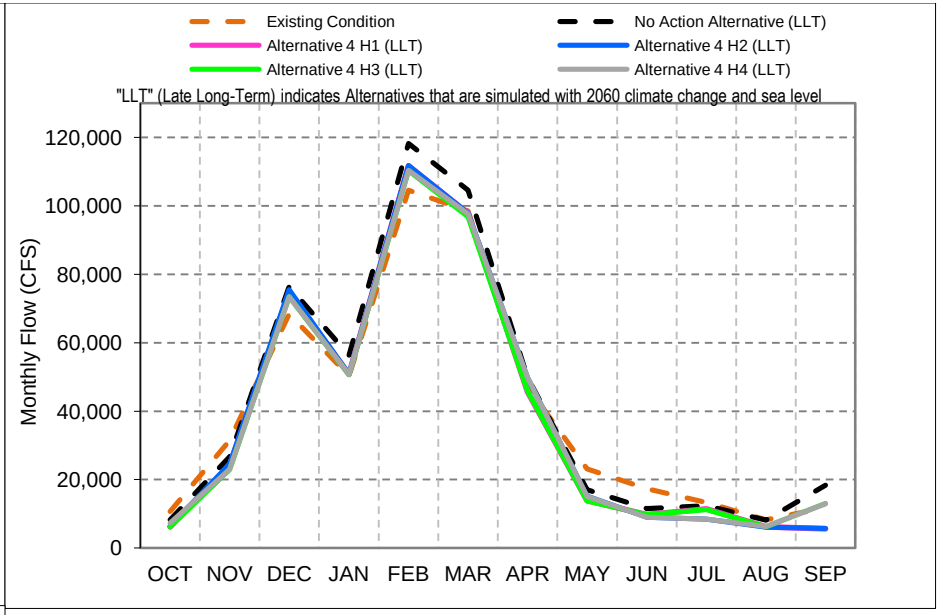


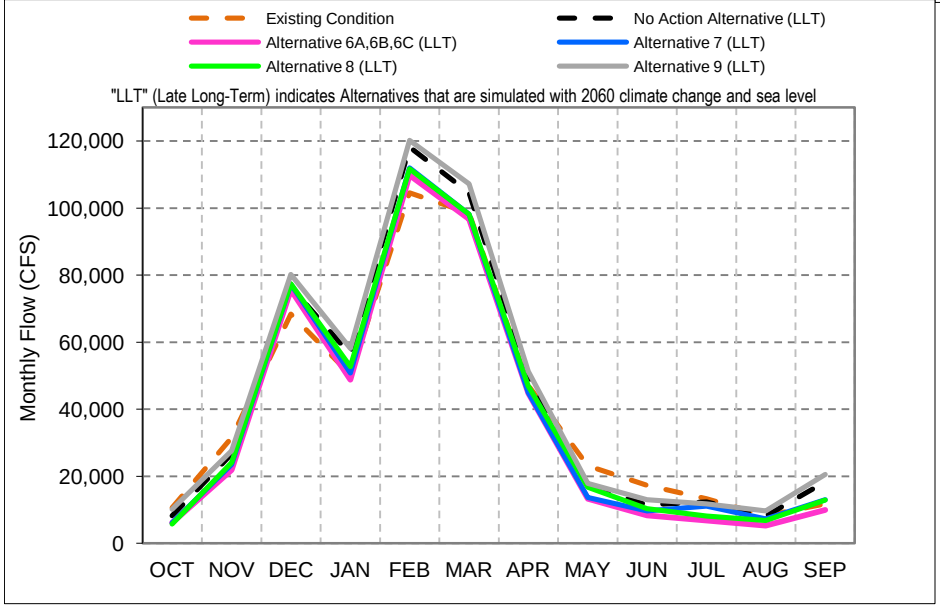
Alternative 4 Scenario Definitions:

H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

Figure C-24-1. Sacramento River at Rio Vista, Long-Term Average Flow





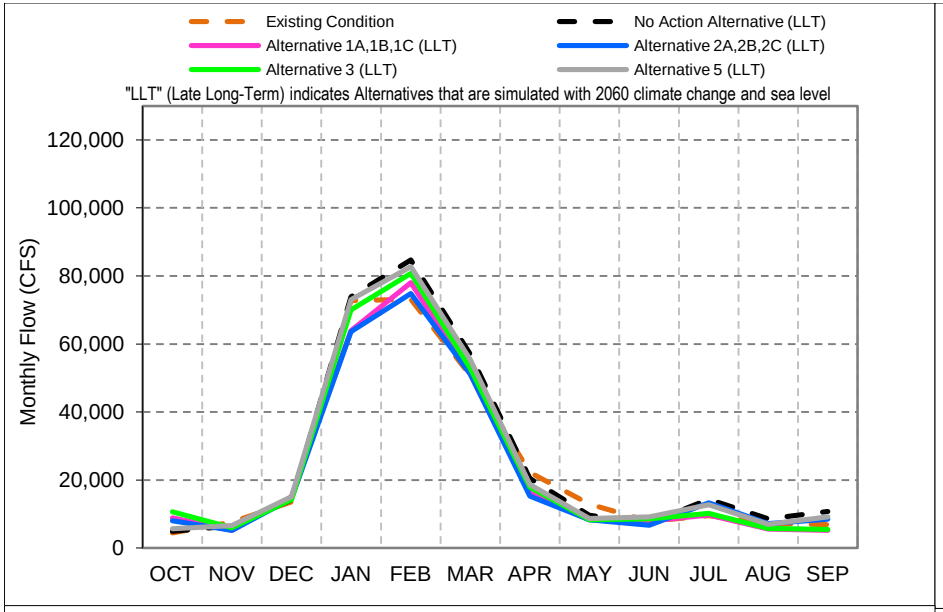


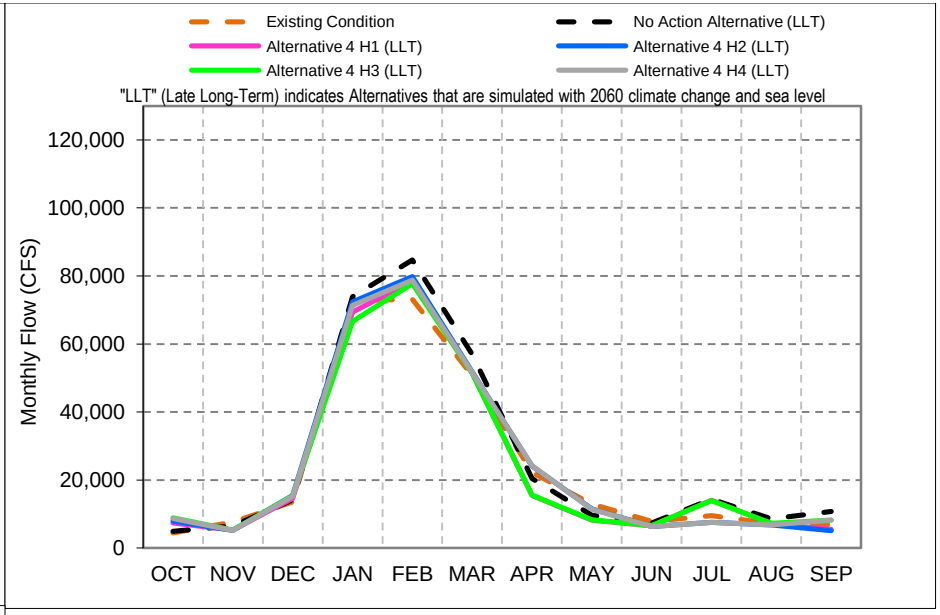
Alternative 4 Scenario Definitions:

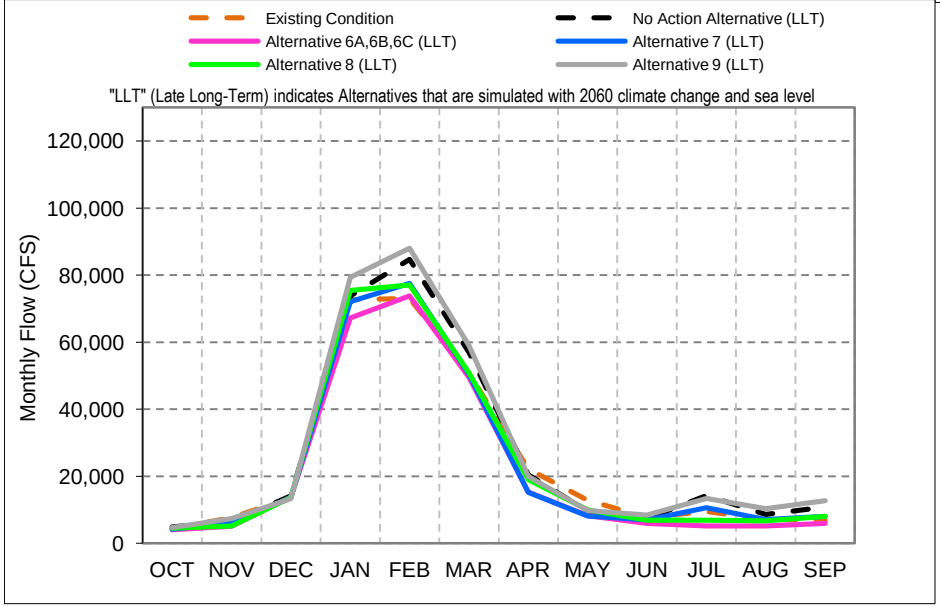
H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-24-2. Sacramento River at Rio Vista, Wet Year* Average Flow





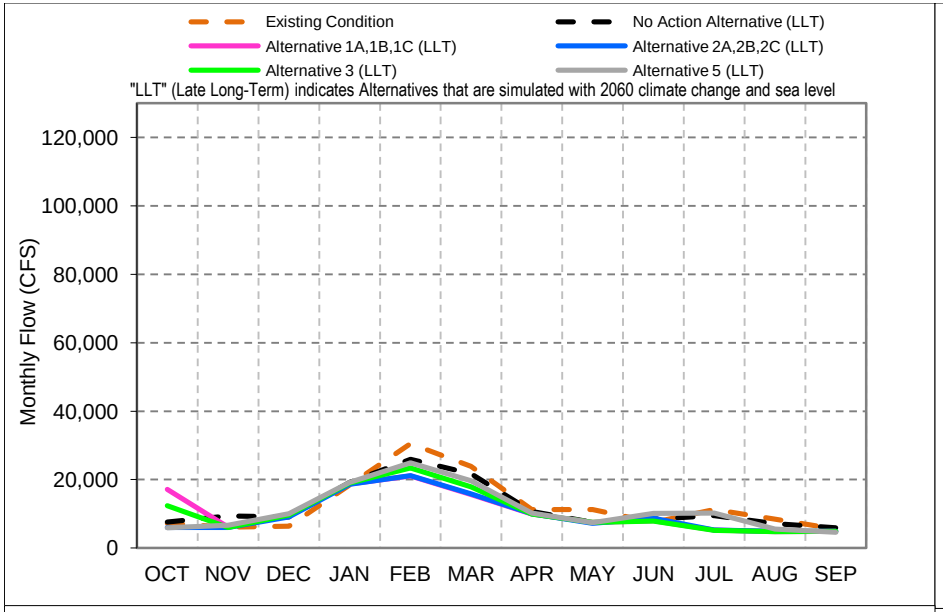


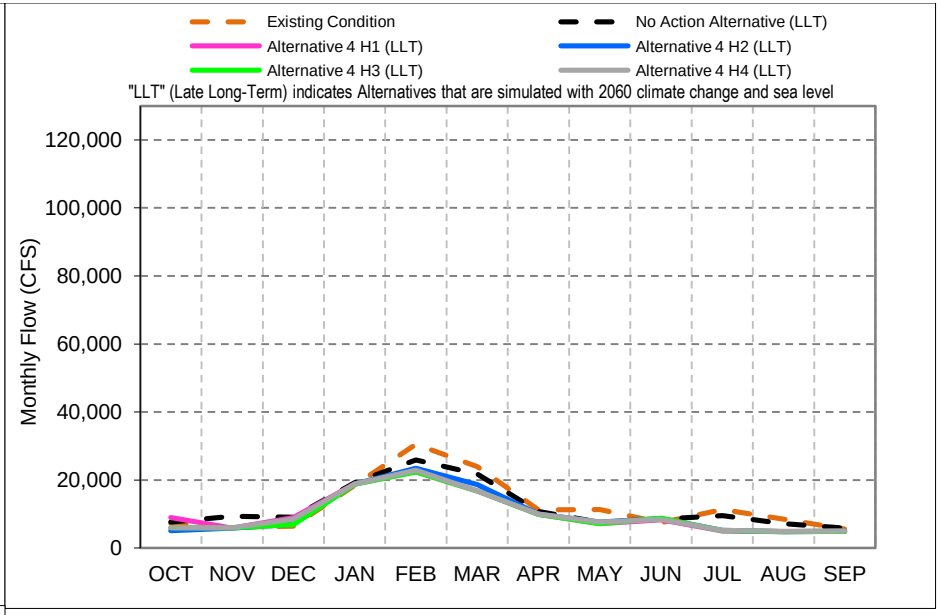
Alternative 4 Scenario Definitions:

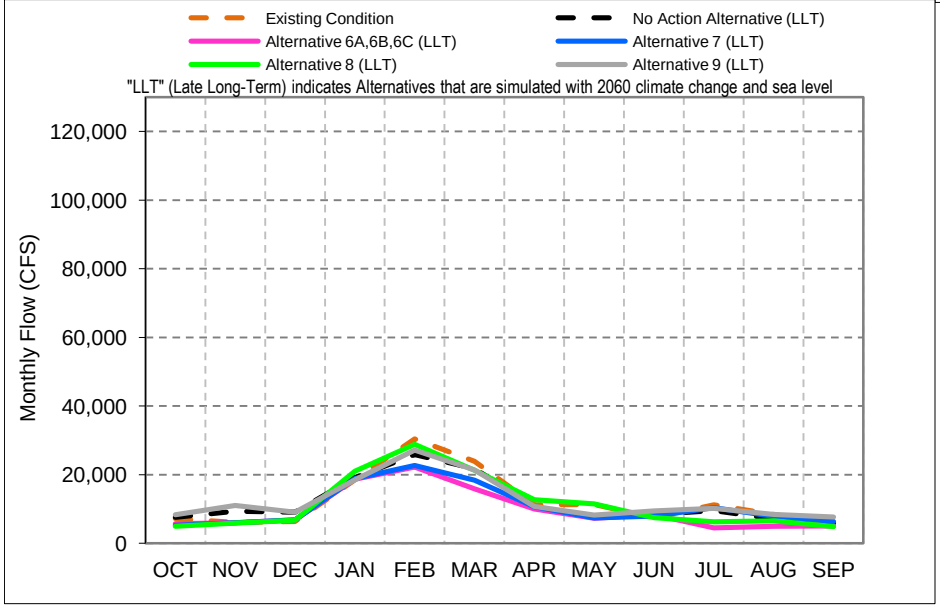
H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-24-3. Sacramento River at Rio Vista, Above Normal Year* Average Flow





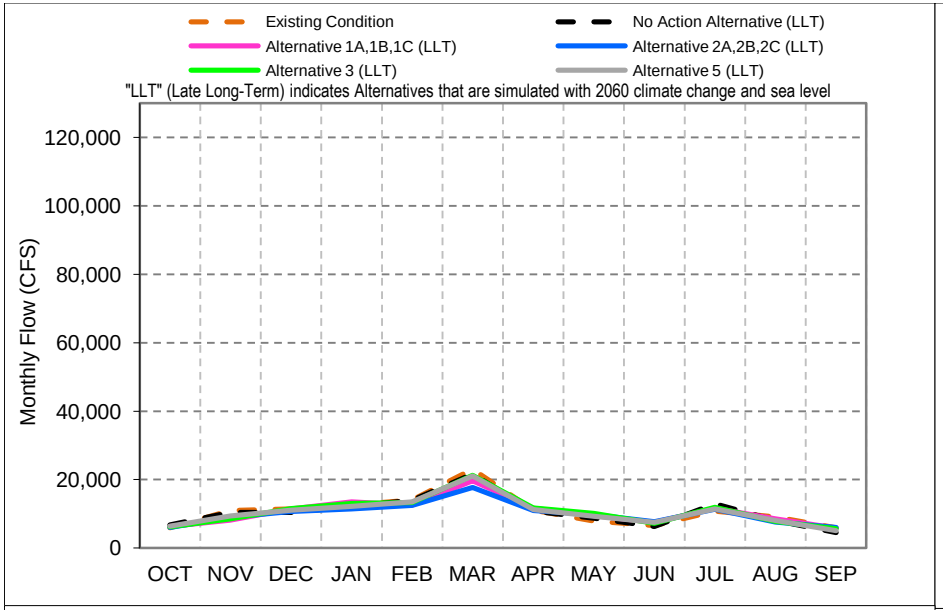


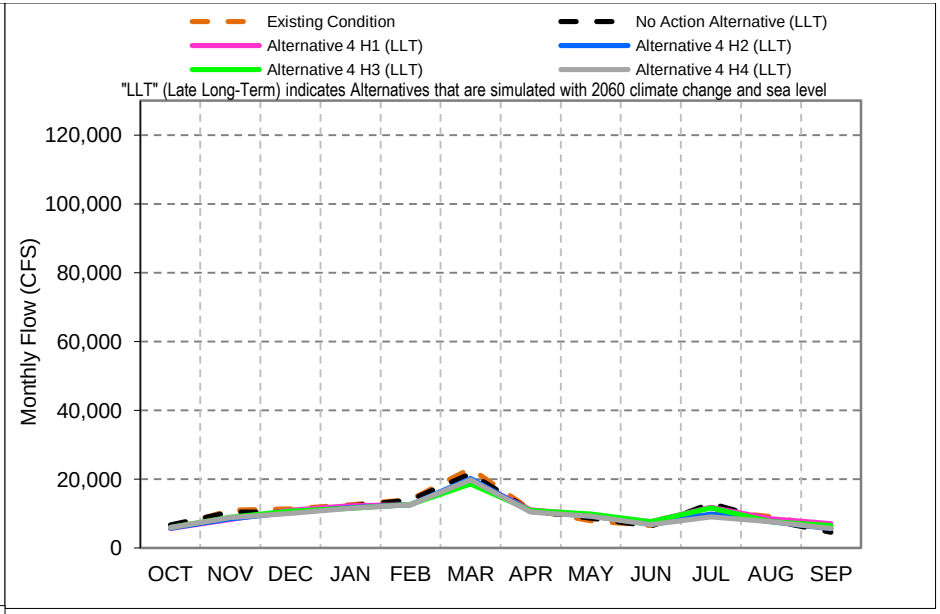
Alternative 4 Scenario Definitions:

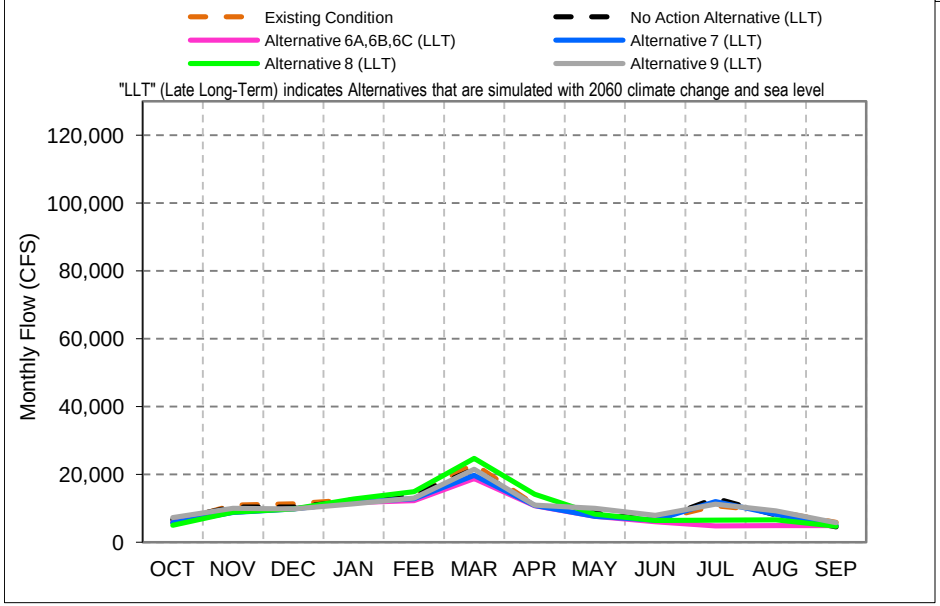
H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-24-4. Sacramento River at Rio Vista, Below Normal Year* Average Flow





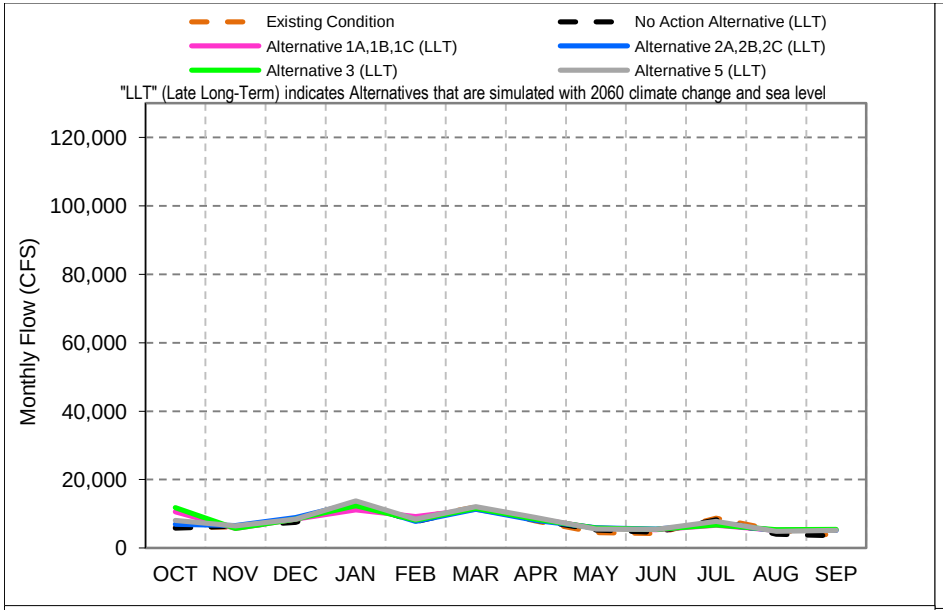


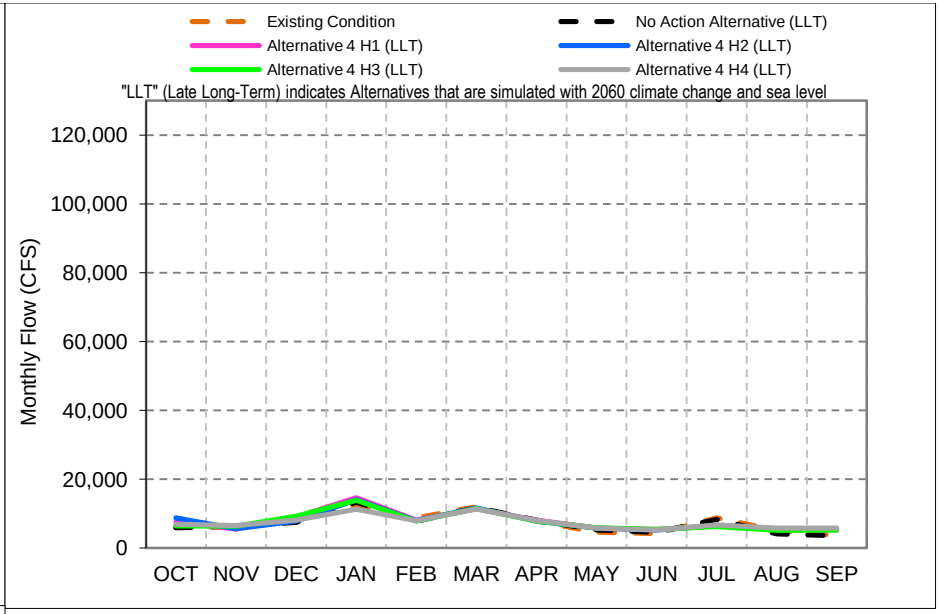
Alternative 4 Scenario Definitions:

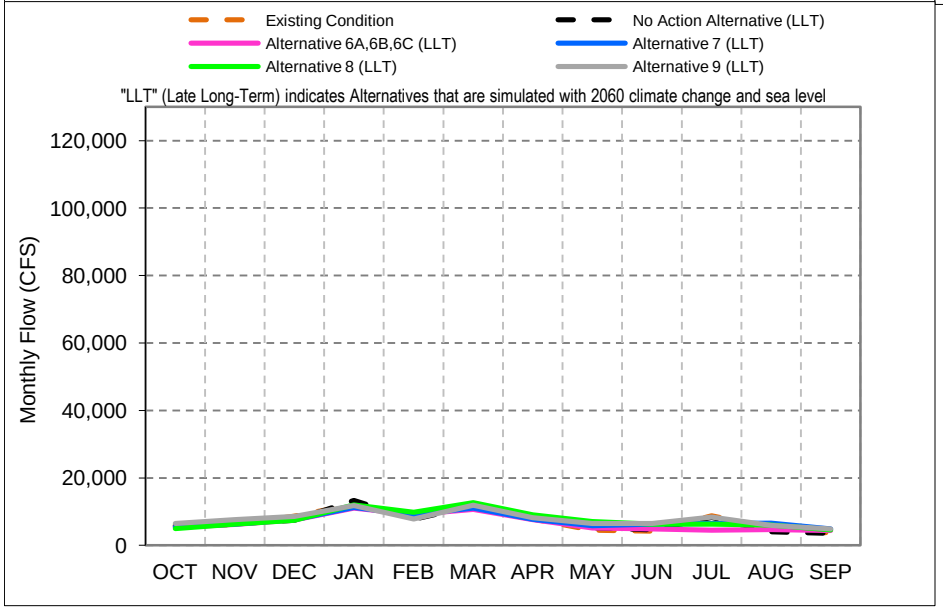
H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-24-5. Sacramento River at Rio Vista, Dry Year* Average Flow







Alternative 4 Scenario Definitions:

H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-24-6. Sacramento River at Rio Vista, Critical Year* Average Flow

Table C-24-1. Sacramento River at Rio Vista, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,385	31,138	69,675	67,273	117,006	88,368	45,473	21,073	11,032	12,484	9,990	9,975
20%	8,340	25,692	19,018	57,369	80,159	56,966	17,880	11,286	7,475	11,265	9,178	7,158
30%	6,640	10,524	14,820	36,041	37,083	41,514	14,778	10,336	6,783	11,033	8,479	6,876
40%	5,804	6,981	13,297	19,373	28,310	28,913	11,217	9,543	6,605	10,748	8,386	6,309
50%	5,573	6,559	11,443	18,527	19,216	25,131	10,679	8,050	6,382	10,628	7,160	5,629
60%	5,315	6,139	9,972	14,974	11,621	22,730	9,402	7,432	6,017	10,451	6,603	5,548
70%	4,651	6,022	8,428	10,776	10,535	15,993	8,969	6,164	5,811	9,827	6,277	4,806
80%	4,314	5,493	7,075	9,795	10,135	11,611	8,453	5,245	4,405	8,212	5,916	3,606
90%	3,558	4,370	6,461	8,018	6,370	7,783	6,885	4,153	3,830	7,841	4,561	3,434
Long Term												
Full Simulation Period[a]	7,015	13,882	24,749	29,766	43,436	41,995	20,477	11,504	8,725	10,656	7,375	6,762
Water Year Types[b]												
Wet (31%)	10,652	31,489	68,384	50,337	104,544	98,550	47,110	23,167	17,294	13,330	8,218	11,761
Above Normal (25%)	4,462	7,684	13,591	72,714	73,083	50,754	22,220	12,873	7,812	9,516	7,215	6,858
Below Normal (6%)	7,265	6,122	6,422	18,492	30,475	23,872	11,217	11,286	7,475	11,265	8,443	5,548
Dry (13%)	5,912	10,977	11,391	12,546	14,092	23,047	11,064	7,913	6,523	10,777	9,104	5,869
Critical (25%)	5,960	6,150	8,654	12,160	8,757	12,031	7,855	4,544	4,247	8,754	5,167	3,682

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,264	23,068	70,313	74,530	136,892	92,547	48,275	15,884	8,934	16,021	9,177	18,538
20%	7,620	17,740	15,859	70,165	88,135	66,036	18,787	10,909	8,374	14,602	8,789	15,402
30%	7,007	11,989	14,801	38,835	42,967	43,330	13,732	9,224	7,038	14,148	8,557	10,789
40%	6,634	9,334	12,528	19,363	25,904	27,346	10,716	8,298	6,612	12,452	8,131	5,892
50%	6,456	8,378	11,840	18,753	18,511	24,353	9,762	7,492	6,310	11,447	7,390	4,962
60%	6,209	6,122	9,479	14,868	12,566	19,775	9,509	6,466	6,001	10,281	6,992	4,508
70%	5,854	5,305	8,790	12,530	9,517	13,433	8,679	6,068	5,683	9,661	4,652	3,747
80%	4,844	4,712	6,657	10,435	8,020	10,185	8,249	5,403	5,022	7,671	4,227	3,687
90%	4,050	4,310	4,702	8,940	6,244	7,626	7,239	4,331	4,296	6,343	4,117	3,509
Long Term												
Full Simulation Period[a]	6,661	12,639	26,382	31,715	47,665	43,677	20,930	9,737	7,354	11,281	6,856	8,546
Water Year Types[b]												
Wet (31%)	8,244	26,634	76,445	56,302	118,226	104,545	49,866	17,006	11,537	12,336	8,194	18,346
Above Normal (25%)	4,900	6,486	14,135	73,855	84,726	56,970	20,466	9,603	7,362	14,303	8,596	10,789
Below Normal (6%)	7,620	9,334	9,092	19,186	25,904	21,749	10,716	7,538	8,443	9,509	7,153	5,892
Dry (13%)	6,722	10,392	10,406	12,203	13,972	21,589	10,770	8,706	6,316	12,919	8,060	4,537
Critical (25%)	5,858	6,361	7,469	13,307	7,699	11,722	8,136	5,241	4,617	8,273	4,067	3,547

No Action Alternative (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-4,121	-8,070	638	7,257	19,886	4,179	2,801	-5,189	-2,098	3,537	-813	8,563
20%	-721	-7,951	-3,159	12,796	7,976	9,070	907	-376	899	3,337	-389	8,244
30%	367	1,465	-19	2,794	5,884	1,816	-1,046	-1,112	255	3,115	77	3,913
40%	830	2,353	-769	-10	-2,405	-1,566	-501	-1,245	7	1,704	-255	-417
50%	883	1,819	397	226	-705	-778	-917	-558	-72	818	230	-667
60%	895	-17	-493	-106	945	-2,955	106	-966	-16	-170	388	-1,041
70%	1,203	-717	362	1,754	-1,018	-2,560	-290	-96	-128	-166	-1,626	-1,059
80%	529	-781	-418	640	-2,114	-1,426	-204	158	617	-541	-1,689	81
90%	491	-60	-1,760	921	-126	-157	354	178	467	-1,498	-444	75
Long Term												
Full Simulation Period[a]	-354	-1,243	1,633	1,950	4,230	1,682	453	-1,767	-1,371	625	-519	1,784
Water Year Types[b]												
Wet (31%)	-2,408	-4,855	8,061	5,965	13,682	5,994	2,756	-6,160	-5,757	-995	-23	6,585
Above Normal (25%)	438	-1,199	544	1,141	11,644	6,216	-1,753	-3,270	-450	4,787	1,380	3,932
Below Normal (6%)	355	3,213	2,670	693	-4,570	-2,123	-501	-3,748	968	-1,756	-1,290	344
Dry (13%)	810	-585	-985	-344	-120	-1,457	-295	793	-207	2,142	-1,044	-1,332
Critical (25%)	-102	211	-1,186	1,147	-1,057	-310	281	697	370	-481	-1,100	-135

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-24-2. Sacramento River at Rio Vista, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,385	31,138	69,675	67,273	117,006	88,368	45,473	21,073	11,032	12,484	9,990	9,975
20%	8,340	25,692	19,018	57,369	80,159	56,966	17,880	11,286	7,475	11,265	9,178	7,158
30%	6,640	10,524	14,820	36,041	37,083	41,514	14,778	10,336	6,783	11,033	8,479	6,876
40%	5,804	6,981	13,297	19,373	28,310	28,913	11,217	9,543	6,605	10,748	8,386	6,309
50%	5,573	6,559	11,443	18,527	19,216	25,131	10,679	8,050	6,382	10,628	7,160	5,629
60%	5,315	6,139	9,972	14,974	11,621	22,730	9,402	7,432	6,017	10,451	6,603	5,548
70%	4,651	6,022	8,428	10,776	10,535	15,993	8,969	6,164	5,811	9,827	6,277	4,806
80%	4,314	5,493	7,075	9,795	10,135	11,611	8,453	5,245	4,405	8,212	5,916	3,606
90%	3,558	4,370	6,461	8,018	6,370	7,783	6,885	4,153	3,830	7,841	4,561	3,434
Long Term												
Full Simulation Period[a]	7,015	13,882	24,749	29,766	43,436	41,995	20,477	11,504	8,725	10,656	7,375	6,762
Water Year Types[b]												
Wet (31%)	10,652	31,489	68,384	50,337	104,544	98,550	47,110	23,167	17,294	13,330	8,218	11,761
Above Normal (25%)	4,462	7,684	13,591	72,714	73,083	50,754	22,220	12,873	7,812	9,516	7,215	6,858
Below Normal (6%)	7,265	6,122	6,422	18,492	30,475	23,872	11,217	11,286	7,475	11,265	8,443	5,548
Dry (13%)	5,912	10,977	11,391	12,546	14,092	23,047	11,064	7,913	6,523	10,777	9,104	5,869
Critical (25%)	5,960	6,150	8,654	12,160	8,757	12,031	7,855	4,544	4,247	8,754	5,167	3,682

Alternative 1A,1B,1C (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	15,682	16,272	65,792	65,568	132,408	84,642	41,811	12,254	9,547	12,698	7,588	6,566
20%	12,107	15,756	16,241	57,006	78,482	58,368	16,796	9,965	9,416	12,040	6,722	6,396
30%	9,074	11,019	15,033	34,297	34,552	38,583	12,231	9,321	8,127	10,506	5,805	5,614
40%	8,274	6,063	14,302	20,351	21,087	23,420	10,909	8,723	7,647	8,130	5,583	5,336
50%	6,127	5,868	12,340	17,779	15,928	18,759	10,030	7,733	7,161	7,781	5,169	5,021
60%	6,033	5,799	10,334	14,418	11,657	15,636	9,788	7,531	6,695	7,387	5,111	4,927
70%	5,880	5,703	9,918	11,419	10,427	13,444	9,503	7,205	6,433	6,953	5,063	4,836
80%	5,657	5,641	7,676	9,995	9,256	10,780	8,960	5,929	5,293	5,737	4,828	4,773
90%	4,748	5,212	6,211	7,846	7,875	7,990	8,391	4,685	5,033	5,494	4,725	4,704
Long Term												
Full Simulation Period[a]	8,772	10,979	26,062	28,558	44,210	40,264	19,659	9,211	7,548	9,067	6,054	5,409
Water Year Types[b]												
Wet (31%)	6,840	24,489	72,325	50,210	108,594	97,739	45,731	14,038	10,002	10,072	5,245	5,442
Above Normal (25%)	8,885	5,221	15,033	63,891	77,978	51,156	16,180	8,297	7,911	9,735	5,528	5,146
Below Normal (6%)	17,099	6,063	9,707	18,764	21,087	15,636	9,970	7,531	7,952	5,275	4,828	4,883
Dry (13%)	6,318	8,190	11,431	13,469	12,520	19,709	11,628	9,509	7,543	11,654	8,540	5,807
Critical (25%)	10,571	5,690	8,439	11,134	9,172	11,298	8,556	5,812	5,361	6,684	5,169	5,275

Alternative 1A,1B,1C (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,297	-14,865	-3,883	-1,705	15,402	-3,726	-3,662	-8,819	-1,485	214	-2,402	-3,409
20%	3,767	-9,935	-2,777	-363	-1,677	1,402	-1,084	-1,321	1,941	775	-2,456	-762
30%	2,434	495	213	-1,744	-2,531	-2,931	-2,547	-1,015	1,344	-527	-2,674	-1,263
40%	2,470	-919	1,004	978	-7,223	-5,493	-308	-820	1,041	-2,618	-2,803	-972
50%	554	-690	897	-747	-3,288	-6,372	-649	-316	779	-2,848	-1,991	-608
60%	718	-340	361	-556	35	-7,094	386	99	678	-3,064	-1,492	-621
70%	1,229	-319	1,490	643	-108	-2,549	534	1,041	622	-2,874	-1,214	30
80%	1,343	148	601	200	-879	-831	507	684	887	-2,475	-1,087	1,167
90%	1,190	842	-250	-173	1,505	207	1,506	532	1,204	-2,346	163	1,269
Long Term												
Full Simulation Period[a]	1,757	-2,902	1,313	-1,208	774	-1,731	-818	-2,294	-1,178	-1,589	-1,320	-1,353
Water Year Types[b]												
Wet (31%)	-3,812	-7,000	3,941	-127	4,050	-811	-1,379	-9,129	-7,291	-3,259	-2,973	-6,318
Above Normal (25%)	4,423	-2,463	1,442	-8,824	4,895	402	-6,039	-4,576	99	219	-1,687	-1,712
Below Normal (6%)	9,834	-59	3,285	272	-9,388	-8,236	-1,247	-3,755	477	-5,990	-3,615	-666
Dry (13%)	406	-2,787	40	922	-1,573	-3,338	564	1,596	1,021	877	-564	-63
Critical (25%)	4,611	-461	-216	-1,025	415	-734	701	1,268	1,114	-2,070	2	1,593

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-24-3. Sacramento River at Rio Vista, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,385	31,138	69,675	67,273	117,006	88,368	45,473	21,073	11,032	12,484	9,990	9,975
20%	8,340	25,692	19,018	57,369	80,159	56,966	17,880	11,286	7,475	11,265	9,178	7,158
30%	6,640	10,524	14,820	36,041	37,083	41,514	14,778	10,336	6,783	11,033	8,479	6,876
40%	5,804	6,981	13,297	19,373	28,310	28,913	11,217	9,543	6,605	10,748	8,386	6,309
50%	5,573	6,559	11,443	18,527	19,216	25,131	10,679	8,050	6,382	10,628	7,160	5,629
60%	5,315	6,139	9,972	14,974	11,621	22,730	9,402	7,432	6,017	10,451	6,603	5,548
70%	4,651	6,022	8,428	10,776	10,535	15,993	8,969	6,164	5,811	9,827	6,277	4,806
80%	4,314	5,493	7,075	9,795	10,135	11,611	8,453	5,245	4,405	8,212	5,916	3,606
90%	3,558	4,370	6,461	8,018	6,370	7,783	6,885	4,153	3,830	7,841	4,561	3,434
Long Term												
Full Simulation Period[a]	7,015	13,882	24,749	29,766	43,436	41,995	20,477	11,504	8,725	10,656	7,375	6,762
Water Year Types[b]												
Wet (31%)	10,652	31,489	68,384	50,337	104,544	98,550	47,110	23,167	17,294	13,330	8,218	11,761
Above Normal (25%)	4,462	7,684	13,591	72,714	73,083	50,754	22,220	12,873	7,812	9,516	7,215	6,858
Below Normal (6%)	7,265	6,122	6,422	18,492	30,475	23,872	11,217	11,286	7,475	11,265	8,443	5,548
Dry (13%)	5,912	10,977	11,391	12,546	14,092	23,047	11,064	7,913	6,523	10,777	9,104	5,869
Critical (25%)	5,960	6,150	8,654	12,160	8,757	12,031	7,855	4,544	4,247	8,754	5,167	3,682

Alternative 2A,2B,2C (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	8,611	16,266	62,935	65,314	129,719	83,431	41,782	12,258	9,124	13,710	8,288	13,229
20%	7,897	15,605	15,435	58,004	78,678	57,540	17,747	10,454	8,661	11,427	7,277	10,750
30%	7,182	9,110	14,365	34,349	33,196	36,091	10,734	9,337	8,294	11,030	6,237	8,455
40%	6,484	6,156	13,620	18,640	21,114	23,520	9,873	8,560	7,544	10,637	5,903	7,960
50%	6,371	6,014	11,912	16,102	15,928	18,806	9,449	8,135	7,090	9,508	5,265	6,671
60%	6,338	5,834	10,098	14,035	11,528	15,811	8,872	7,240	6,609	7,949	5,204	5,292
70%	6,128	5,749	9,207	12,348	9,711	12,161	8,619	6,105	6,168	6,856	5,168	4,863
80%	5,975	5,561	9,069	10,078	8,506	10,144	8,309	5,733	5,600	5,853	5,078	4,716
90%	4,159	5,191	7,159	8,876	6,065	8,189	7,941	4,679	5,241	5,422	4,758	4,662
Long Term												
Full Simulation Period[a]	6,723	10,435	25,568	28,555	43,390	39,453	19,124	9,121	7,484	9,597	6,111	7,765
Water Year Types[b]												
Wet (31%)	6,706	20,475	70,898	49,741	108,615	96,439	45,344	13,394	9,832	10,375	5,574	13,139
Above Normal (25%)	7,988	5,209	14,527	63,643	74,842	51,093	15,214	8,325	6,694	13,332	7,122	8,455
Below Normal (6%)	6,014	5,985	9,069	18,640	21,114	15,811	10,008	7,240	8,680	5,214	4,888	4,886
Dry (13%)	6,023	9,013	10,693	11,444	12,484	17,708	10,978	9,780	7,713	11,336	7,574	5,982
Critical (25%)	6,933	6,520	8,920	13,245	7,808	11,332	8,053	5,869	5,499	6,966	5,209	5,193

Alternative 2A,2B,2C (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-4,774	-14,872	-6,740	-1,959	12,713	-4,937	-3,691	-8,815	-1,908	1,226	-1,702	3,253
20%	-444	-10,087	-3,583	635	-1,481	574	-133	-832	1,186	162	-1,901	3,592
30%	542	-1,414	-454	-1,691	-3,887	-5,422	-4,043	-999	1,511	-2	-2,242	1,579
40%	680	-825	322	-733	-7,195	-5,392	-1,344	-983	939	-111	-2,483	1,652
50%	798	-544	468	-2,425	-3,288	-6,324	-1,230	85	708	-1,121	-1,895	1,042
60%	1,023	-305	126	-939	-93	-6,919	-530	-192	592	-2,502	-1,399	-256
70%	1,477	-273	779	1,572	-824	-3,831	-350	-59	357	-2,971	-1,109	57
80%	1,660	68	1,993	283	-1,629	-1,467	-144	488	1,195	-2,359	-837	1,110
90%	600	820	697	858	-304	405	1,056	526	1,411	-2,418	197	1,228
Long Term												
Full Simulation Period[a]	-292	-3,447	819	-1,210	-46	-2,543	-1,353	-2,384	-1,241	-1,059	-1,264	1,003
Water Year Types[b]												
Wet (31%)	-3,946	-11,014	2,514	-596	4,071	-2,111	-1,766	-9,772	-7,462	-2,956	-2,643	1,379
Above Normal (25%)	3,526	-2,475	936	-9,072	1,760	339	-7,005	-4,548	-1,119	3,815	-93	1,597
Below Normal (6%)	-1,251	-136	2,646	148	-9,360	-8,061	-1,209	-4,046	1,205	-6,051	-3,555	-662
Dry (13%)	111	-1,964	-698	-1,103	-1,608	-5,339	-87	1,867	1,190	558	-1,530	113
Critical (25%)	972	369	265	1,085	-949	-699	198	1,324	1,252	-1,788	42	1,511

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-24-4. Sacramento River at Rio Vista, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,385	31,138	69,675	67,273	117,006	88,368	45,473	21,073	11,032	12,484	9,990	9,975
20%	8,340	25,692	19,018	57,369	80,159	56,966	17,880	11,286	7,475	11,265	9,178	7,158
30%	6,640	10,524	14,820	36,041	37,083	41,514	14,778	10,336	6,783	11,033	8,479	6,876
40%	5,804	6,981	13,297	19,373	28,310	28,913	11,217	9,543	6,605	10,748	8,386	6,309
50%	5,573	6,559	11,443	18,527	19,216	25,131	10,679	8,050	6,382	10,628	7,160	5,629
60%	5,315	6,139	9,972	14,974	11,621	22,730	9,402	7,432	6,017	10,451	6,603	5,548
70%	4,651	6,022	8,428	10,776	10,535	15,993	8,969	6,164	5,811	9,827	6,277	4,806
80%	4,314	5,493	7,075	9,795	10,135	11,611	8,453	5,245	4,405	8,212	5,916	3,606
90%	3,558	4,370	6,461	8,018	6,370	7,783	6,885	4,153	3,830	7,841	4,561	3,434
Long Term												
Full Simulation Period[a]	7,015	13,882	24,749	29,766	43,436	41,995	20,477	11,504	8,725	10,656	7,375	6,762
Water Year Types[b]												
Wet (31%)	10,652	31,489	68,384	50,337	104,544	98,550	47,110	23,167	17,294	13,330	8,218	11,761
Above Normal (25%)	4,462	7,684	13,591	72,714	73,083	50,754	22,220	12,873	7,812	9,516	7,215	6,858
Below Normal (6%)	7,265	6,122	6,422	18,492	30,475	23,872	11,217	11,286	7,475	11,265	8,443	5,548
Dry (13%)	5,912	10,977	11,391	12,546	14,092	23,047	11,064	7,913	6,523	10,777	9,104	5,869
Critical (25%)	5,960	6,150	8,654	12,160	8,757	12,031	7,855	4,544	4,247	8,754	5,167	3,682

Alternative 3 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	15,940	21,340	72,862	71,007	131,806	88,662	44,667	15,328	11,902	13,238	7,864	6,795
20%	12,322	16,254	16,538	65,210	83,273	61,378	17,744	10,116	9,267	12,465	6,689	6,580
30%	10,350	6,892	15,214	35,578	39,496	40,591	12,594	9,324	7,746	10,292	6,186	6,178
40%	8,343	6,362	12,901	20,903	23,449	25,057	10,592	8,502	7,503	9,073	5,610	5,886
50%	7,217	6,155	12,478	18,393	16,677	20,536	9,899	7,771	7,044	7,569	5,183	5,154
60%	6,092	5,965	10,322	14,145	11,873	17,847	9,667	7,567	6,639	7,138	5,123	4,938
70%	5,936	5,840	9,787	10,625	10,342	14,146	9,209	7,213	6,235	6,995	5,072	4,901
80%	5,796	5,656	7,419	10,216	8,666	10,978	8,897	5,918	6,087	6,595	4,874	4,780
90%	4,756	5,578	6,185	9,364	7,098	8,002	8,442	4,704	4,999	5,359	4,709	4,704
Long Term												
Full Simulation Period[a]	9,172	11,493	27,043	30,237	46,055	41,752	20,346	9,753	8,005	9,195	5,946	5,671
Water Year Types[b]												
Wet (31%)	7,245	25,852	76,634	52,727	114,535	100,378	47,692	15,553	11,647	10,018	5,256	6,228
Above Normal (25%)	10,654	5,959	14,269	69,987	80,779	52,836	17,934	8,266	8,583	10,199	5,777	5,448
Below Normal (6%)	12,322	5,965	9,636	19,050	23,449	17,892	9,942	7,533	7,921	5,182	4,813	4,883
Dry (13%)	6,235	8,516	11,500	13,036	13,279	21,224	11,746	10,132	7,267	11,925	7,755	5,675
Critical (25%)	11,839	5,705	8,396	12,343	8,124	11,610	8,394	5,848	5,467	6,753	5,346	5,469

Alternative 3 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,555	**-9,798**	3,187	3,734	14,800	294	**-806**	**-5,745**	870	754	**-2,126**	**-3,181**
20%	3,982	**-9,438**	**-2,481**	7,841	3,114	4,412	**-137**	**-1,169**	1,792	1,200	**-2,490**	**-578**
30%	3,710	**-3,632**	394	**-463**	2,413	**-923**	**-2,184**	**-1,012**	963	**-741**	**-2,293**	**-698**
40%	2,540	**-620**	**-396**	1,530	**-4,861**	**-3,856**	**-625**	**-1,041**	897	**-1,675**	**-2,776**	**-423**
50%	1,644	**-403**	1,035	**-134**	**-2,539**	**-4,594**	**-780**	**-279**	662	**-3,060**	**-1,977**	**-475**
60%	778	**-174**	350	**-828**	252	**-4,882**	265	135	623	**-3,313**	**-1,481**	**-610**
70%	1,285	**-182**	1,359	**-151**	**-193**	**-1,847**	240	1,049	425	**-2,832**	**-1,205**	96
80%	1,482	163	344	421	**-1,469**	**-633**	444	673	1,682	**-1,617**	**-1,042**	1,174
90%	1,198	1,208	**-277**	1,346	729	219	1,557	551	1,169	**-2,481**	148	1,270
Long Term												
Full Simulation Period[a]	2,156	**-2,389**	2,295	471	2,620	**-244**	**-131**	**-1,752**	**-720**	**-1,461**	**-1,428**	**-1,091**
Water Year Types[b]												
Wet (31%)	**-3,407**	**-5,637**	8,250	2,389	9,991	1,827	582	**-7,614**	**-5,647**	**-3,312**	**-2,961**	**-5,532**
Above Normal (25%)	6,192	**-1,725**	678	**-2,727**	7,696	2,082	**-4,286**	**-4,607**	771	683	**-1,438**	**-1,410**
Below Normal (6%)	5,057	**-157**	3,214	557	**-7,026**	**-5,980**	**-1,275**	**-3,752**	446	**-6,083**	**-3,630**	**-665**
Dry (13%)	323	**-2,461**	109	489	**-813**	**-1,822**	682	2,219	744	1,147	**-1,349**	**-195**
Critical (25%)	5,879	**-445**	**-259**	183	**-633**	**-421**	538	1,304	1,220	**-2,001**	179	1,787

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-24-5. Sacramento River at Rio Vista, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,385	31,138	69,675	67,273	117,006	88,368	45,473	21,073	11,032	12,484	9,990	9,975
20%	8,340	25,692	19,018	57,369	80,159	56,966	17,880	11,286	7,475	11,265	9,178	7,158
30%	6,640	10,524	14,820	36,041	37,083	41,514	14,778	10,336	6,783	11,033	8,479	6,876
40%	5,804	6,981	13,297	19,373	28,310	28,913	11,217	9,543	6,605	10,748	8,386	6,309
50%	5,573	6,559	11,443	18,527	19,216	25,131	10,679	8,050	6,382	10,628	7,160	5,629
60%	5,315	6,139	9,972	14,974	11,621	22,730	9,402	7,432	6,017	10,451	6,603	5,548
70%	4,651	6,022	8,428	10,776	10,535	15,993	8,969	6,164	5,811	9,827	6,277	4,806
80%	4,314	5,493	7,075	9,795	10,135	11,611	8,453	5,245	4,405	8,212	5,916	3,606
90%	3,558	4,370	6,461	8,018	6,370	7,783	6,885	4,153	3,830	7,841	4,561	3,434
Long Term												
Full Simulation Period[a]	7,015	13,882	24,749	29,766	43,436	41,995	20,477	11,504	8,725	10,656	7,375	6,762
Water Year Types[b]												
Wet (31%)	10,652	31,489	68,384	50,337	104,544	98,550	47,110	23,167	17,294	13,330	8,218	11,761
Above Normal (25%)	4,462	7,684	13,591	72,714	73,083	50,754	22,220	12,873	7,812	9,516	7,215	6,858
Below Normal (6%)	7,265	6,122	6,422	18,492	30,475	23,872	11,217	11,286	7,475	11,265	8,443	5,548
Dry (13%)	5,912	10,977	11,391	12,546	14,092	23,047	11,064	7,913	6,523	10,777	9,104	5,869
Critical (25%)	5,960	6,150	8,654	12,160	8,757	12,031	7,855	4,544	4,247	8,754	5,167	3,682

Alternative 4 H1 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,187	20,206	70,333	69,311	131,443	84,866	42,136	13,435	8,687	16,133	8,817	7,442
20%	8,529	15,767	16,431	62,099	80,671	58,773	17,570	10,493	8,326	12,145	7,696	6,940
30%	7,726	6,060	14,883	34,015	35,932	39,941	10,778	9,303	7,973	11,416	6,872	6,212
40%	7,300	5,874	13,803	18,875	22,404	24,169	9,735	8,343	7,734	11,352	6,060	5,466
50%	6,161	5,808	12,500	17,414	15,977	19,034	9,484	7,493	7,101	8,679	5,909	5,057
60%	6,100	5,754	10,759	16,746	11,723	16,738	9,134	7,197	6,881	7,212	5,204	4,944
70%	5,752	5,664	8,791	15,024	9,588	12,104	8,756	6,125	6,156	6,974	5,161	4,923
80%	5,246	5,655	8,534	13,219	8,581	10,139	8,495	5,732	5,642	5,840	5,067	4,884
90%	4,453	5,216	6,830	9,576	6,733	8,167	7,839	4,652	5,013	5,333	4,755	4,727
Long Term												
Full Simulation Period[a]	6,773	10,865	26,648	30,202	44,809	40,420	19,262	9,150	7,395	9,901	6,516	5,809
Water Year Types[b]												
Wet (31%)	6,148	24,185	74,734	50,831	111,664	97,830	45,634	13,817	9,748	11,418	6,197	5,655
Above Normal (25%)	7,320	5,270	14,560	69,393	78,491	51,457	15,495	8,165	6,553	13,996	7,179	5,500
Below Normal (6%)	8,949	5,874	8,969	18,875	22,404	16,738	9,925	7,197	8,335	5,044	4,852	4,884
Dry (13%)	5,663	8,332	11,013	12,279	12,552	19,716	11,096	9,616	7,648	11,876	8,459	7,062
Critical (25%)	7,508	5,473	9,058	14,626	8,138	11,378	8,070	5,829	5,458	6,441	5,285	5,237

Alternative 4 H1 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-4,198	-10,932	658	2,038	14,437	-3,502	-3,338	-7,638	-2,345	3,649	-1,173	-2,533
20%	189	-9,924	-2,587	4,730	512	1,807	-310	-792	851	880	-1,483	-218
30%	1,086	-4,464	63	-2,026	-1,151	-1,573	-4,000	-1,033	1,190	383	-1,607	-664
40%	1,497	-1,107	506	-499	-5,905	-4,744	-1,483	-1,200	1,129	604	-2,326	-842
50%	588	-751	1,057	-1,113	-3,239	-6,097	-1,195	-557	718	-1,949	-1,251	-572
60%	785	-385	786	1,772	101	-5,992	-268	-235	865	-3,239	-1,400	-604
70%	1,101	-358	362	4,249	-947	-3,888	-213	-40	346	-2,853	-1,116	117
80%	932	163	1,459	3,424	-1,554	-1,472	42	486	1,237	-2,373	-848	1,278
90%	894	846	369	1,558	363	384	954	499	1,184	-2,507	194	1,293
Long Term												
Full Simulation Period[a]	-242	-3,016	1,899	436	1,373	-1,575	-1,215	-2,354	-1,330	-755	-858	-953
Water Year Types[b]												
Wet (31%)	-4,504	-7,304	6,350	494	7,120	-720	-1,476	-9,350	-7,545	-1,913	-2,020	-6,105
Above Normal (25%)	2,858	-2,414	968	-3,321	5,408	703	-6,725	-4,708	-1,259	4,480	-37	-1,358
Below Normal (6%)	1,684	-247	2,547	382	-8,070	-7,134	-1,292	-4,088	860	-6,221	-3,591	-664
Dry (13%)	-249	-2,645	-377	-267	-1,541	-3,330	32	1,703	1,125	1,098	-645	1,193
Critical (25%)	1,547	-678	404	2,466	-619	-653	215	1,284	1,211	-2,313	118	1,555

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-24-6. Sacramento River at Rio Vista, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,385	31,138	69,675	67,273	117,006	88,368	45,473	21,073	11,032	12,484	9,990	9,975
20%	8,340	25,692	19,018	57,369	80,159	56,966	17,880	11,286	7,475	11,265	9,178	7,158
30%	6,640	10,524	14,820	36,041	37,083	41,514	14,778	10,336	6,783	11,033	8,479	6,876
40%	5,804	6,981	13,297	19,373	28,310	28,913	11,217	9,543	6,605	10,748	8,386	6,309
50%	5,573	6,559	11,443	18,527	19,216	25,131	10,679	8,050	6,382	10,628	7,160	5,629
60%	5,315	6,139	9,972	14,974	11,621	22,730	9,402	7,432	6,017	10,451	6,603	5,548
70%	4,651	6,022	8,428	10,776	10,535	15,993	8,969	6,164	5,811	9,827	6,277	4,806
80%	4,314	5,493	7,075	9,795	10,135	11,611	8,453	5,245	4,405	8,212	5,916	3,606
90%	3,558	4,370	6,461	8,018	6,370	7,783	6,885	4,153	3,830	7,841	4,561	3,434
Long Term												
Full Simulation Period[a]	7,015	13,882	24,749	29,766	43,436	41,995	20,477	11,504	8,725	10,656	7,375	6,762
Water Year Types[b]												
Wet (31%)	10,652	31,489	68,384	50,337	104,544	98,550	47,110	23,167	17,294	13,330	8,218	11,761
Above Normal (25%)	4,462	7,684	13,591	72,714	73,083	50,754	22,220	12,873	7,812	9,516	7,215	6,858
Below Normal (6%)	7,265	6,122	6,422	18,492	30,475	23,872	11,217	11,286	7,475	11,265	8,443	5,548
Dry (13%)	5,912	10,977	11,391	12,546	14,092	23,047	11,064	7,913	6,523	10,777	9,104	5,869
Critical (25%)	5,960	6,150	8,654	12,160	8,757	12,031	7,855	4,544	4,247	8,754	5,167	3,682

Alternative 4 H2 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	11,319	20,957	71,876	69,443	130,968	85,167	44,614	14,191	8,816	10,402	8,451	6,601
20%	9,723	16,570	17,025	61,275	80,681	58,799	22,884	12,714	7,482	9,830	7,564	6,591
30%	6,956	5,908	15,421	34,034	37,388	41,208	19,393	10,849	7,036	9,228	6,815	5,999
40%	6,484	5,874	14,600	18,828	22,729	24,278	12,457	9,884	7,015	8,503	5,901	5,454
50%	6,150	5,833	11,474	16,530	16,139	19,688	9,461	8,361	6,170	7,778	5,827	5,221
60%	6,109	5,751	7,988	14,157	11,292	17,447	8,909	7,602	6,073	7,192	5,197	4,978
70%	6,036	5,715	6,997	13,930	9,550	12,735	8,799	6,573	5,835	6,147	5,126	4,936
80%	5,112	5,636	6,967	10,757	8,522	10,146	8,045	5,410	5,456	5,698	5,025	4,901
90%	4,792	5,084	5,946	9,886	6,285	7,925	7,684	4,610	4,944	4,997	4,846	4,776
Long Term												
Full Simulation Period[a]	7,112	11,016	26,276	30,260	44,980	40,779	21,183	9,848	6,940	7,895	6,294	5,566
Water Year Types[b]												
Wet (31%)	6,479	24,560	75,539	50,782	111,759	97,887	49,765	15,190	8,985	8,464	6,109	5,733
Above Normal (25%)	7,929	5,183	15,421	72,371	79,764	51,813	24,080	11,527	6,345	7,513	6,821	5,135
Below Normal (6%)	5,112	5,827	7,009	18,828	23,432	18,657	10,003	7,602	8,694	5,221	4,850	4,901
Dry (13%)	5,792	8,437	10,307	11,735	12,546	20,160	10,645	9,285	6,907	9,867	7,621	5,631
Critical (25%)	8,747	5,616	7,836	14,106	7,900	11,598	7,824	5,802	5,217	6,549	5,460	5,686

Alternative 4 H2 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-2,066**	**-10,180**	2,201	2,170	13,962	**-3,201**	**-859**	**-6,882**	**-2,216**	**-2,082**	**-1,540**	**-3,374**
20%	1,382	**-9,122**	**-1,993**	3,906	522	1,833	5,004	1,429	7	**-1,435**	**-1,614**	**-567**
30%	316	**-4,616**	601	**-2,007**	305	**-306**	4,615	513	253	**-1,805**	**-1,664**	**-877**
40%	680	**-1,107**	1,303	**-545**	**-5,580**	**-4,634**	1,240	341	410	**-2,245**	**-2,484**	**-854**
50%	577	**-726**	31	**-1,997**	**-3,077**	**-5,442**	**-1,218**	311	**-212**	**-2,851**	**-1,333**	**-408**
60%	795	**-389**	**-1,984**	**-816**	**-330**	**-5,282**	**-493**	170	56	**-3,259**	**-1,406**	**-570**
70%	1,385	**-307**	**-1,432**	3,154	**-985**	**-3,258**	**-170**	409	24	**-3,679**	**-1,151**	130
80%	797	143	**-109**	962	**-1,613**	**-1,465**	**-408**	165	1,051	**-2,514**	**-890**	1,295
90%	1,234	714	**-516**	1,867	**-84**	142	798	456	1,114	**-2,844**	285	1,342
Long Term												
Full Simulation Period[a]	97	**-2,865**	1,527	494	1,544	**-1,217**	706	**-1,657**	**-1,785**	**-2,761**	**-1,080**	**-1,196**
Water Year Types[b]												
Wet (31%)	**-4,173**	**-6,929**	7,155	444	7,215	**-664**	2,655	**-7,976**	**-8,309**	**-4,866**	**-2,109**	**-6,028**
Above Normal (25%)	3,466	**-2,501**	1,830	**-344**	6,681	1,059	1,861	**-1,346**	**-1,467**	**-2,003**	**-394**	**-1,723**
Below Normal (6%)	**-2,153**	**-294**	587	336	**-7,042**	**-5,215**	**-1,214**	**-3,684**	1,218	**-6,044**	**-3,593**	**-647**
Dry (13%)	**-120**	**-2,540**	**-1,084**	**-811**	**-1,546**	**-2,887**	**-420**	1,372	384	**-910**	**-1,483**	**-239**
Critical (25%)	2,787	**-535**	**-818**	1,946	**-857**	**-433**	**-31**	1,257	970	**-2,205**	293	2,003

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-24-7. Sacramento River at Rio Vista, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,385	31,138	69,675	67,273	117,006	88,368	45,473	21,073	11,032	12,484	9,990	9,975
20%	8,340	25,692	19,018	57,369	80,159	56,966	17,880	11,286	7,475	11,265	9,178	7,158
30%	6,640	10,524	14,820	36,041	37,083	41,514	14,778	10,336	6,783	11,033	8,479	6,876
40%	5,804	6,981	13,297	19,373	28,310	28,913	11,217	9,543	6,605	10,748	8,386	6,309
50%	5,573	6,559	11,443	18,527	19,216	25,131	10,679	8,050	6,382	10,628	7,160	5,629
60%	5,315	6,139	9,972	14,974	11,621	22,730	9,402	7,432	6,017	10,451	6,603	5,548
70%	4,651	6,022	8,428	10,776	10,535	15,993	8,969	6,164	5,811	9,827	6,277	4,806
80%	4,314	5,493	7,075	9,795	10,135	11,611	8,453	5,245	4,405	8,212	5,916	3,606
90%	3,558	4,370	6,461	8,018	6,370	7,783	6,885	4,153	3,830	7,841	4,561	3,434
Long Term												
Full Simulation Period[a]	7,015	13,882	24,749	29,766	43,436	41,995	20,477	11,504	8,725	10,656	7,375	6,762
Water Year Types[b]												
Wet (31%)	10,652	31,489	68,384	50,337	104,544	98,550	47,110	23,167	17,294	13,330	8,218	11,761
Above Normal (25%)	4,462	7,684	13,591	72,714	73,083	50,754	22,220	12,873	7,812	9,516	7,215	6,858
Below Normal (6%)	7,265	6,122	6,422	18,492	30,475	23,872	11,217	11,286	7,475	11,265	8,443	5,548
Dry (13%)	5,912	10,977	11,391	12,546	14,092	23,047	11,064	7,913	6,523	10,777	9,104	5,869
Critical (25%)	5,960	6,150	8,654	12,160	8,757	12,031	7,855	4,544	4,247	8,754	5,167	3,682

Alternative 4 H3 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	7,902	20,299	67,654	68,440	129,825	83,941	42,111	13,378	8,934	16,151	8,750	13,134
20%	7,108	16,225	15,438	60,964	80,614	58,768	17,632	10,452	8,344	11,981	7,745	11,002
30%	6,513	9,062	15,022	34,339	36,140	37,764	10,757	9,278	8,016	11,425	6,809	8,226
40%	6,326	6,146	14,273	19,023	22,457	24,197	9,746	8,503	7,832	10,706	5,881	8,131
50%	6,270	6,003	12,650	17,866	16,140	19,018	8,985	8,038	7,017	8,062	5,201	6,982
60%	5,976	5,842	10,134	16,398	11,697	16,750	8,743	7,192	6,602	7,434	5,183	6,544
70%	5,746	5,737	9,192	12,317	9,734	12,186	8,547	6,098	6,121	6,714	5,110	4,917
80%	5,461	5,592	9,004	10,070	8,505	10,148	8,299	5,728	5,600	5,990	5,070	4,789
90%	4,644	5,205	6,134	8,753	6,165	8,162	7,921	4,666	5,012	5,283	4,915	4,654
Long Term												
Full Simulation Period[a]	6,549	11,004	26,287	29,387	44,322	39,905	19,231	9,224	7,400	9,750	6,273	7,860
Water Year Types[b]												
Wet (31%)	6,196	22,944	73,456	50,590	110,326	96,808	45,956	13,812	9,728	11,283	6,222	13,060
Above Normal (25%)	8,879	5,289	15,374	66,617	77,768	51,417	15,538	8,255	6,598	13,969	7,247	8,226
Below Normal (6%)	5,976	5,969	6,844	18,734	22,457	16,750	9,908	7,192	8,799	5,085	4,852	4,883
Dry (13%)	6,007	8,989	10,752	11,568	12,633	18,617	10,929	9,834	7,644	11,635	7,625	6,527
Critical (25%)	6,447	6,357	9,234	13,919	7,866	11,440	7,835	5,861	5,382	6,260	5,126	5,217

Alternative 4 H3 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-5,483	-10,839	-2,021	1,168	12,819	-4,426	-3,363	-7,695	-2,098	3,667	-1,240	3,159
20%	-1,233	-9,467	-3,580	3,595	455	1,802	-248	-834	869	716	-1,433	3,844
30%	-127	-1,461	203	-1,702	-944	-3,750	-4,021	-1,058	1,233	393	-1,670	1,349
40%	522	-836	976	-351	-5,852	-4,715	-1,472	-1,040	1,227	-43	-2,504	1,822
50%	697	-555	1,206	-661	-3,076	-6,113	-1,694	-12	634	-2,567	-1,959	1,353
60%	661	-297	161	1,425	76	-5,980	-659	-239	585	-3,017	-1,420	996
70%	1,095	-285	763	1,542	-801	-3,807	-422	-66	311	-3,113	-1,168	111
80%	1,146	99	1,929	275	-1,629	-1,463	-154	483	1,195	-2,222	-845	1,183
90%	1,086	835	-327	734	-205	378	1,036	513	1,182	-2,557	354	1,219
Long Term												
Full Simulation Period[a]	-467	-2,877	1,539	-379	887	-2,090	-1,246	-2,280	-1,326	-906	-1,102	1,098
Water Year Types[b]												
Wet (31%)	-4,456	-8,545	5,071	253	5,782	-1,743	-1,154	-9,355	-7,566	-2,047	-1,996	1,299
Above Normal (25%)	4,416	-2,395	1,783	-6,098	4,685	663	-6,682	-4,619	-1,215	4,453	32	1,368
Below Normal (6%)	-1,289	-152	422	242	-8,017	-7,122	-1,310	-4,093	1,324	-6,180	-3,591	-665
Dry (13%)	95	-1,988	-638	-978	-1,460	-4,430	-136	1,921	1,121	858	-1,479	658
Critical (25%)	487	207	579	1,759	-891	-591	-21	1,316	1,135	-2,494	-41	1,534

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-24-8. Sacramento River at Rio Vista, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,385	31,138	69,675	67,273	117,006	88,368	45,473	21,073	11,032	12,484	9,990	9,975
20%	8,340	25,692	19,018	57,369	80,159	56,966	17,880	11,286	7,475	11,265	9,178	7,158
30%	6,640	10,524	14,820	36,041	37,083	41,514	14,778	10,336	6,783	11,033	8,479	6,876
40%	5,804	6,981	13,297	19,373	28,310	28,913	11,217	9,543	6,605	10,748	8,386	6,309
50%	5,573	6,559	11,443	18,527	19,216	25,131	10,679	8,050	6,382	10,628	7,160	5,629
60%	5,315	6,139	9,972	14,974	11,621	22,730	9,402	7,432	6,017	10,451	6,603	5,548
70%	4,651	6,022	8,428	10,776	10,535	15,993	8,969	6,164	5,811	9,827	6,277	4,806
80%	4,314	5,493	7,075	9,795	10,135	11,611	8,453	5,245	4,405	8,212	5,916	3,606
90%	3,558	4,370	6,461	8,018	6,370	7,783	6,885	4,153	3,830	7,841	4,561	3,434
Long Term												
Full Simulation Period[a]	7,015	13,882	24,749	29,766	43,436	41,995	20,477	11,504	8,725	10,656	7,375	6,762
Water Year Types[b]												
Wet (31%)	10,652	31,489	68,384	50,337	104,544	98,550	47,110	23,167	17,294	13,330	8,218	11,761
Above Normal (25%)	4,462	7,684	13,591	72,714	73,083	50,754	22,220	12,873	7,812	9,516	7,215	6,858
Below Normal (6%)	7,265	6,122	6,422	18,492	30,475	23,872	11,217	11,286	7,475	11,265	8,443	5,548
Dry (13%)	5,912	10,977	11,391	12,546	14,092	23,047	11,064	7,913	6,523	10,777	9,104	5,869
Critical (25%)	5,960	6,150	8,654	12,160	8,757	12,031	7,855	4,544	4,247	8,754	5,167	3,682

Alternative 4 H4 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,283	19,018	67,659	69,456	129,929	85,549	44,707	14,073	8,689	10,248	8,349	13,185
20%	8,723	16,197	15,493	61,806	80,704	58,800	22,883	12,606	7,378	9,332	7,560	10,381
30%	7,074	9,097	14,825	34,032	37,181	40,325	19,366	10,789	7,035	8,667	7,409	8,235
40%	6,527	6,063	14,503	18,850	22,726	24,219	12,591	9,786	6,786	8,107	6,146	7,050
50%	6,428	5,899	11,439	16,355	16,119	19,085	9,610	8,338	6,169	7,296	5,945	6,223
60%	6,325	5,792	9,247	13,707	11,373	16,792	8,897	7,606	6,063	6,280	5,688	6,122
70%	6,098	5,741	8,289	10,433	9,548	12,198	8,468	6,460	5,836	6,133	5,449	5,665
80%	5,915	5,644	7,416	9,041	8,501	10,155	8,066	5,409	5,657	6,004	5,155	5,214
90%	4,355	5,163	6,207	8,189	6,382	7,862	7,826	4,596	4,942	5,446	4,971	4,877
Long Term												
Full Simulation Period[a]	6,957	11,052	25,873	29,198	44,509	40,429	21,200	9,803	6,912	7,722	6,459	7,803
Water Year Types[b]												
Wet (31%)	7,333	23,063	73,487	50,695	110,418	97,703	49,806	15,095	8,987	8,423	6,325	12,929
Above Normal (25%)	8,674	5,191	15,201	71,368	78,819	51,598	24,191	11,409	6,348	7,516	6,821	8,235
Below Normal (6%)	5,966	5,945	8,526	18,850	22,847	16,792	9,962	7,606	8,439	5,210	4,871	4,972
Dry (13%)	6,011	8,892	10,107	11,586	12,537	19,832	10,425	9,260	6,820	9,067	7,637	5,724
Critical (25%)	6,925	6,538	8,131	11,292	7,969	11,349	7,986	5,802	5,244	6,669	5,798	5,758

Alternative 4 H4 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-4,102**	**-12,119**	**-2,016**	2,184	12,923	**-2,819**	**-766**	**-7,001**	**-2,343**	**-2,236**	**-1,641**	3,209
20%	382	**-9,494**	**-3,526**	4,437	545	1,833	5,002	1,320	**-97**	**-1,933**	**-1,618**	3,222
30%	434	**-1,427**	5	**-2,009**	98	**-1,189**	4,588	453	252	**-2,366**	**-1,070**	1,359
40%	723	**-918**	1,206	**-523**	**-5,584**	**-4,694**	1,374	243	180	**-2,641**	**-2,240**	742
50%	855	**-660**	**-5**	**-2,172**	**-3,097**	**-6,045**	**-1,069**	288	**-213**	**-3,332**	**-1,214**	595
60%	1,010	**-347**	**-725**	**-1,267**	**-248**	**-5,938**	**-505**	175	46	**-4,171**	**-916**	574
70%	1,447	**-281**	**-139**	**-343**	**-987**	**-3,795**	**-501**	295	25	**-3,693**	**-828**	859
80%	1,601	151	341	**-754**	**-1,634**	**-1,456**	**-387**	163	1,252	**-2,208**	**-761**	1,608
90%	797	793	**-254**	171	12	78	941	443	1,112	**-2,394**	410	1,443
Long Term												
Full Simulation Period[a]	**-58**	**-2,829**	1,124	**-568**	1,074	**-1,566**	723	**-1,701**	**-1,814**	**-2,935**	**-915**	1,040
Water Year Types[b]												
Wet (31%)	**-3,319**	**-8,426**	5,103	358	5,874	**-847**	2,696	**-8,072**	**-8,307**	**-4,908**	**-1,893**	1,168
Above Normal (25%)	4,211	**-2,494**	1,610	**-1,346**	5,737	844	1,971	**-1,465**	**-1,465**	**-2,000**	**-394**	1,377
Below Normal (6%)	**-1,298**	**-177**	2,104	358	**-7,628**	**-7,080**	**-1,256**	**-3,679**	964	**-6,055**	**-3,572**	**-577**
Dry (13%)	99	**-2,085**	**-1,284**	**-961**	**-1,556**	**-3,215**	**-640**	1,347	297	**-1,711**	**-1,467**	**-146**
Critical (25%)	964	388	**-523**	**-868**	**-788**	**-683**	130	1,257	998	**-2,085**	631	2,076

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-24-9. Sacramento River at Rio Vista, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,385	31,138	69,675	67,273	117,006	88,368	45,473	21,073	11,032	12,484	9,990	9,975
20%	8,340	25,692	19,018	57,369	80,159	56,966	17,880	11,286	7,475	11,265	9,178	7,158
30%	6,640	10,524	14,820	36,041	37,083	41,514	14,778	10,336	6,783	11,033	8,479	6,876
40%	5,804	6,981	13,297	19,373	28,310	28,913	11,217	9,543	6,605	10,748	8,386	6,309
50%	5,573	6,559	11,443	18,527	19,216	25,131	10,679	8,050	6,382	10,628	7,160	5,629
60%	5,315	6,139	9,972	14,974	11,621	22,730	9,402	7,432	6,017	10,451	6,603	5,548
70%	4,651	6,022	8,428	10,776	10,535	15,993	8,969	6,164	5,811	9,827	6,277	4,806
80%	4,314	5,493	7,075	9,795	10,135	11,611	8,453	5,245	4,405	8,212	5,916	3,606
90%	3,558	4,370	6,461	8,018	6,370	7,783	6,885	4,153	3,830	7,841	4,561	3,434
Long Term												
Full Simulation Period[a]	7,015	13,882	24,749	29,766	43,436	41,995	20,477	11,504	8,725	10,656	7,375	6,762
Water Year Types[b]												
Wet (31%)	10,652	31,489	68,384	50,337	104,544	98,550	47,110	23,167	17,294	13,330	8,218	11,761
Above Normal (25%)	4,462	7,684	13,591	72,714	73,083	50,754	22,220	12,873	7,812	9,516	7,215	6,858
Below Normal (6%)	7,265	6,122	6,422	18,492	30,475	23,872	11,217	11,286	7,475	11,265	8,443	5,548
Dry (13%)	5,912	10,977	11,391	12,546	14,092	23,047	11,064	7,913	6,523	10,777	9,104	5,869
Critical (25%)	5,960	6,150	8,654	12,160	8,757	12,031	7,855	4,544	4,247	8,754	5,167	3,682

Alternative 5 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	10,127	22,572	72,797	73,389	134,742	89,017	47,090	15,405	11,034	13,996	9,815	15,373
20%	8,145	16,794	15,992	66,062	85,802	63,951	18,254	9,771	10,073	12,945	8,744	12,954
30%	7,906	10,172	14,854	37,764	41,064	42,308	12,428	9,294	8,877	12,315	8,050	9,161
40%	7,351	7,806	14,090	19,239	24,893	26,354	11,017	8,058	8,150	12,071	5,971	5,546
50%	6,785	7,109	12,314	18,324	17,584	22,716	9,980	7,492	7,968	10,792	5,497	5,472
60%	6,124	6,575	10,328	14,768	11,966	18,782	9,146	6,920	7,236	10,129	5,213	5,192
70%	5,810	6,130	10,003	12,479	10,661	13,132	9,106	6,215	6,758	8,158	5,206	5,000
80%	5,563	5,765	7,169	10,404	8,891	10,597	8,933	5,899	5,688	7,326	4,641	4,783
90%	4,734	5,559	6,240	9,067	6,396	8,426	8,441	4,761	5,259	5,502	4,584	4,708
Long Term												
Full Simulation Period[a]	7,026	12,179	27,145	31,303	46,847	42,642	20,789	9,662	8,582	10,345	6,639	8,147
Water Year Types[b]												
Wet (31%)	7,316	26,331	77,009	54,460	115,816	101,846	48,898	16,168	12,886	11,328	7,488	15,395
Above Normal (25%)	5,643	6,633	15,041	73,030	82,716	55,353	18,606	8,688	9,112	12,688	6,975	9,161
Below Normal (6%)	5,916	6,678	10,056	19,239	24,893	19,702	10,252	7,377	10,117	10,225	5,496	4,576
Dry (13%)	6,382	9,336	11,024	12,196	13,502	21,029	11,261	9,321	7,523	11,466	8,105	5,053
Critical (25%)	8,083	6,451	8,409	13,783	8,393	12,073	8,903	5,575	5,467	7,750	4,880	5,134

Alternative 5 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-3,258**	**-8,566**	3,121	6,117	17,736	649	1,616	**-5,668**	2	1,512	**-175**	5,398
20%	**-196**	**-8,897**	**-3,026**	8,693	5,643	6,985	373	**-1,515**	2,598	1,680	**-435**	5,796
30%	1,266	**-352**	34	1,723	3,981	794	**-2,350**	**-1,041**	2,095	1,282	**-429**	2,284
40%	1,547	825	792	**-134**	**-3,417**	**-2,558**	**-200**	**-1,485**	1,545	1,323	**-2,414**	**-763**
50%	1,212	550	870	**-203**	**-1,632**	**-2,415**	**-699**	**-558**	1,586	163	**-1,662**	**-157**
60%	810	436	355	**-205**	345	**-3,947**	**-256**	**-511**	1,219	**-323**	**-1,390**	**-356**
70%	1,159	108	1,575	1,703	126	**-2,861**	137	51	948	**-1,669**	**-1,072**	194
80%	1,249	272	94	609	**-1,244**	**-1,014**	480	654	1,283	**-886**	**-1,274**	1,177
90%	1,176	1,189	**-222**	1,049	27	643	1,555	608	1,430	**-2,338**	23	1,274
Long Term												
Full Simulation Period[a]	10	**-1,702**	2,396	1,537	3,412	647	312	**-1,843**	**-143**	**-311**	**-736**	1,385
Water Year Types[b]												
Wet (31%)	**-3,336**	**-5,158**	8,625	4,122	11,272	3,295	1,788	**-6,999**	**-4,408**	**-2,002**	**-729**	3,635
Above Normal (25%)	1,181	**-1,051**	1,450	316	9,633	4,599	**-3,613**	**-4,185**	1,299	3,171	**-240**	2,303
Below Normal (6%)	**-1,348**	557	3,633	746	**-5,582**	**-4,170**	**-965**	**-3,908**	2,642	**-1,040**	**-2,947**	**-972**
Dry (13%)	470	**-1,641**	**-367**	**-350**	**-591**	**-2,018**	196	1,408	1,000	689	**-999**	**-816**
Critical (25%)	2,123	301	**-246**	1,624	**-364**	42	1,048	1,031	1,220	**-1,004**	**-287**	1,451

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-24-10. Sacramento River at Rio Vista, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,385	31,138	69,675	67,273	117,006	88,368	45,473	21,073	11,032	12,484	9,990	9,975
20%	8,340	25,692	19,018	57,369	80,159	56,966	17,880	11,286	7,475	11,265	9,178	7,158
30%	6,640	10,524	14,820	36,041	37,083	41,514	14,778	10,336	6,783	11,033	8,479	6,876
40%	5,804	6,981	13,297	19,373	28,310	28,913	11,217	9,543	6,605	10,748	8,386	6,309
50%	5,573	6,559	11,443	18,527	19,216	25,131	10,679	8,050	6,382	10,628	7,160	5,629
60%	5,315	6,139	9,972	14,974	11,621	22,730	9,402	7,432	6,017	10,451	6,603	5,548
70%	4,651	6,022	8,428	10,776	10,535	15,993	8,969	6,164	5,811	9,827	6,277	4,806
80%	4,314	5,493	7,075	9,795	10,135	11,611	8,453	5,245	4,405	8,212	5,916	3,606
90%	3,558	4,370	6,461	8,018	6,370	7,783	6,885	4,153	3,830	7,841	4,561	3,434
Long Term												
Full Simulation Period[a]	7,015	13,882	24,749	29,766	43,436	41,995	20,477	11,504	8,725	10,656	7,375	6,762
Water Year Types[b]												
Wet (31%)	10,652	31,489	68,384	50,337	104,544	98,550	47,110	23,167	17,294	13,330	8,218	11,761
Above Normal (25%)	4,462	7,684	13,591	72,714	73,083	50,754	22,220	12,873	7,812	9,516	7,215	6,858
Below Normal (6%)	7,265	6,122	6,422	18,492	30,475	23,872	11,217	11,286	7,475	11,265	8,443	5,548
Dry (13%)	5,912	10,977	11,391	12,546	14,092	23,047	11,064	7,913	6,523	10,777	9,104	5,869
Critical (25%)	5,960	6,150	8,654	12,160	8,757	12,031	7,855	4,544	4,247	8,754	5,167	3,682

Alternative 6A,6B,6C (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	6,731	22,333	73,043	64,733	126,108	83,610	40,942	11,700	8,154	6,717	5,298	10,663
20%	6,477	14,747	15,743	59,700	78,498	57,725	17,250	8,784	6,476	5,292	5,229	6,517
30%	5,822	9,194	14,735	34,284	34,353	36,976	10,675	8,069	6,327	5,262	5,169	6,001
40%	5,744	6,028	13,067	18,674	22,235	23,425	9,798	7,709	6,023	5,173	5,107	5,097
50%	5,684	5,870	11,103	17,172	16,109	18,934	9,114	6,986	5,965	4,806	5,045	5,028
60%	5,475	5,773	8,127	13,631	14,698	15,850	8,667	6,412	5,901	4,723	4,928	4,903
70%	5,311	5,701	7,000	10,762	10,799	12,201	8,583	5,736	5,287	4,644	4,832	4,727
80%	5,107	5,663	6,819	9,111	8,536	10,100	7,989	4,978	4,760	4,549	4,666	4,697
90%	4,058	5,068	5,628	7,797	6,216	6,889	7,493	4,319	4,680	4,440	4,653	4,672
Long Term												
Full Simulation Period[a]	5,563	10,667	25,896	28,138	44,022	39,373	18,816	8,346	6,388	5,265	4,983	6,147
Water Year Types[b]												
Wet (31%)	6,166	21,896	75,619	48,777	109,829	96,691	44,785	13,332	8,342	6,814	5,254	9,926
Above Normal (25%)	4,034	5,068	13,827	67,187	73,830	49,489	15,318	8,246	5,931	5,222	5,209	6,001
Below Normal (6%)	5,744	6,028	6,819	18,674	22,270	15,850	10,062	7,289	8,335	4,491	5,013	5,055
Dry (13%)	5,892	8,942	9,909	11,709	12,335	18,807	10,776	7,704	6,068	4,897	4,911	4,925
Critical (25%)	5,393	6,233	7,550	11,043	9,152	10,630	7,621	5,122	4,873	4,492	4,727	4,380

Alternative 6A,6B,6C (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-6,655	-8,805	3,368	-2,540	9,102	-4,758	-4,531	-9,374	-2,878	-5,767	-4,692	688
20%	-1,864	-10,945	-3,276	2,331	-1,661	759	-631	-2,502	-999	-5,973	-3,949	-642
30%	-818	-1,330	-84	-1,757	-2,731	-4,538	-4,103	-2,267	-456	-5,771	-3,311	-875
40%	-60	-954	-231	-699	-6,075	-5,487	-1,419	-1,834	-582	-5,575	-3,279	-1,211
50%	111	-689	-340	-1,355	-3,107	-6,197	-1,565	-1,063	-418	-5,822	-2,114	-600
60%	161	-366	-1,846	-1,343	3,077	-6,880	-735	-1,019	-116	-5,728	-1,676	-646
70%	660	-321	-1,428	-13	265	-3,792	-386	-428	-523	-5,183	-1,445	-79
80%	793	170	-256	-684	-1,598	-1,511	-464	-267	355	-3,664	-1,250	1,091
90%	499	698	-834	-221	-154	-895	608	165	850	-3,400	92	1,238
Long Term												
Full Simulation Period[a]	-1,452	-3,214	1,147	-1,628	586	-2,622	-1,661	-3,158	-2,338	-5,391	-2,392	-615
Water Year Types[b]												
Wet (31%)	-4,486	-9,593	7,235	-1,560	5,285	-1,859	-2,324	-9,834	-8,952	-6,516	-2,964	-1,835
Above Normal (25%)	-428	-2,616	235	-5,527	747	-1,266	-6,902	-4,627	-1,881	-4,294	-2,006	-857
Below Normal (6%)	-1,521	-94	397	182	-8,205	-8,022	-1,155	-3,997	860	-6,774	-3,430	-494
Dry (13%)	-20	-2,035	-1,482	-837	-1,757	-4,240	-289	-208	-455	-5,881	-4,193	-944
Critical (25%)	-567	82	-1,105	-1,116	396	-1,402	-234	578	626	-4,263	-440	698

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-24-11. Sacramento River at Rio Vista, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,385	31,138	69,675	67,273	117,006	88,368	45,473	21,073	11,032	12,484	9,990	9,975
20%	8,340	25,692	19,018	57,369	80,159	56,966	17,880	11,286	7,475	11,265	9,178	7,158
30%	6,640	10,524	14,820	36,041	37,083	41,514	14,778	10,336	6,783	11,033	8,479	6,876
40%	5,804	6,981	13,297	19,373	28,310	28,913	11,217	9,543	6,605	10,748	8,386	6,309
50%	5,573	6,559	11,443	18,527	19,216	25,131	10,679	8,050	6,382	10,628	7,160	5,629
60%	5,315	6,139	9,972	14,974	11,621	22,730	9,402	7,432	6,017	10,451	6,603	5,548
70%	4,651	6,022	8,428	10,776	10,535	15,993	8,969	6,164	5,811	9,827	6,277	4,806
80%	4,314	5,493	7,075	9,795	10,135	11,611	8,453	5,245	4,405	8,212	5,916	3,606
90%	3,558	4,370	6,461	8,018	6,370	7,783	6,885	4,153	3,830	7,841	4,561	3,434
Long Term												
Full Simulation Period[a]	7,015	13,882	24,749	29,766	43,436	41,995	20,477	11,504	8,725	10,656	7,375	6,762
Water Year Types[b]												
Wet (31%)	10,652	31,489	68,384	50,337	104,544	98,550	47,110	23,167	17,294	13,330	8,218	11,761
Above Normal (25%)	4,462	7,684	13,591	72,714	73,083	50,754	22,220	12,873	7,812	9,516	7,215	6,858
Below Normal (6%)	7,265	6,122	6,422	18,492	30,475	23,872	11,217	11,286	7,475	11,265	8,443	5,548
Dry (13%)	5,912	10,977	11,391	12,546	14,092	23,047	11,064	7,913	6,523	10,777	9,104	5,869
Critical (25%)	5,960	6,150	8,654	12,160	8,757	12,031	7,855	4,544	4,247	8,754	5,167	3,682

Alternative 7 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	6,540	20,296	75,109	69,223	129,735	86,590	40,914	12,693	7,919	14,141	8,552	13,140
20%	6,380	15,884	15,495	63,803	80,692	58,851	17,249	8,698	7,160	11,535	7,855	10,462
30%	6,128	9,185	14,556	34,569	36,083	38,000	11,166	7,920	6,970	11,047	7,512	8,082
40%	5,945	6,380	12,916	18,877	22,732	24,331	9,584	7,624	6,866	10,364	7,349	6,407
50%	5,774	5,959	11,123	17,102	16,743	19,570	9,244	6,902	6,736	9,858	7,053	5,686
60%	5,713	5,876	8,203	13,781	14,995	17,595	9,175	6,187	6,544	8,954	6,890	4,971
70%	5,530	5,770	7,162	10,522	11,080	13,018	8,516	5,742	6,504	7,786	6,715	4,805
80%	5,221	5,719	6,851	9,172	8,617	10,324	8,077	5,396	6,424	6,463	6,545	4,641
90%	4,000	5,644	5,640	7,912	6,235	7,141	7,576	5,338	6,390	6,249	6,399	4,544
Long Term												
Full Simulation Period[a]	5,557	11,163	26,300	29,367	45,195	40,362	18,964	8,657	7,408	9,751	7,331	7,421
Water Year Types[b]												
Wet (31%)	6,164	23,492	77,267	50,849	111,976	98,149	45,029	13,695	9,676	11,075	7,251	13,030
Above Normal (25%)	4,231	6,053	13,728	72,061	77,499	50,350	15,250	8,161	7,013	10,592	7,120	8,082
Below Normal (6%)	5,221	6,010	6,851	18,877	22,732	18,431	10,632	7,375	8,005	10,364	7,914	6,407
Dry (13%)	5,834	8,792	9,856	11,786	12,890	19,753	10,930	7,665	6,561	11,979	8,262	4,933
Critical (25%)	5,446	6,271	7,600	11,267	9,184	11,012	7,692	5,875	6,310	6,449	6,619	4,864

Alternative 7 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-6,845**	**-10,842**	5,434	1,950	12,729	**-1,778**	**-4,559**	**-8,380**	**-3,113**	1,657	**-1,439**	3,165
20%	**-1,960**	**-9,807**	**-3,524**	6,434	533	1,884	**-632**	**-2,588**	**-315**	270	**-1,324**	3,304
30%	**-512**	**-1,339**	**-263**	**-1,472**	**-1,000**	**-3,514**	**-3,612**	**-2,416**	187	14	**-967**	1,205
40%	141	**-602**	**-382**	**-497**	**-5,578**	**-4,581**	**-1,634**	**-1,919**	260	**-384**	**-1,036**	99
50%	201	**-600**	**-320**	**-1,425**	**-2,473**	**-5,560**	**-1,435**	**-1,147**	354	**-770**	**-107**	57
60%	398	**-263**	**-1,769**	**-1,193**	3,374	**-5,135**	**-227**	**-1,245**	527	**-1,497**	287	**-577**
70%	879	**-252**	**-1,266**	**-253**	545	**-2,975**	**-454**	**-422**	694	**-2,041**	437	**-1**
80%	907	226	**-224**	**-623**	**-1,518**	**-1,287**	**-376**	150	2,019	**-1,749**	629	1,035
90%	442	1,274	**-822**	**-106**	**-134**	**-643**	691	1,185	2,560	**-1,592**	1,838	1,110
Long Term												
Full Simulation Period[a]	**-1,459**	**-2,719**	1,551	**-399**	1,759	**-1,633**	**-1,512**	**-2,848**	**-1,317**	**-905**	**-43**	659
Water Year Types[b]												
Wet (31%)	**-4,488**	**-7,998**	8,882	511	7,432	**-401**	**-2,081**	**-9,471**	**-7,617**	**-2,255**	**-966**	1,270
Above Normal (25%)	**-231**	**-1,631**	136	**-653**	4,417	**-404**	**-6,970**	**-4,713**	**-800**	1,076	**-96**	1,224
Below Normal (6%)	**-2,043**	**-112**	429	384	**-7,743**	**-5,441**	**-586**	**-3,910**	530	**-901**	**-529**	859
Dry (13%)	**-78**	**-2,185**	**-1,535**	**-760**	**-1,203**	**-3,294**	**-134**	**-248**	39	1,202	**-842**	**-936**
Critical (25%)	**-514**	121	**-1,054**	**-892**	427	**-1,019**	**-163**	1,330	2,063	**-2,305**	1,453	1,181

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-24-12. Sacramento River at Rio Vista, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,385	31,138	69,675	67,273	117,006	88,368	45,473	21,073	11,032	12,484	9,990	9,975
20%	8,340	25,692	19,018	57,369	80,159	56,966	17,880	11,286	7,475	11,265	9,178	7,158
30%	6,640	10,524	14,820	36,041	37,083	41,514	14,778	10,336	6,783	11,033	8,479	6,876
40%	5,804	6,981	13,297	19,373	28,310	28,913	11,217	9,543	6,605	10,748	8,386	6,309
50%	5,573	6,559	11,443	18,527	19,216	25,131	10,679	8,050	6,382	10,628	7,160	5,629
60%	5,315	6,139	9,972	14,974	11,621	22,730	9,402	7,432	6,017	10,451	6,603	5,548
70%	4,651	6,022	8,428	10,776	10,535	15,993	8,969	6,164	5,811	9,827	6,277	4,806
80%	4,314	5,493	7,075	9,795	10,135	11,611	8,453	5,245	4,405	8,212	5,916	3,606
90%	3,558	4,370	6,461	8,018	6,370	7,783	6,885	4,153	3,830	7,841	4,561	3,434
Long Term												
Full Simulation Period[a]	7,015	13,882	24,749	29,766	43,436	41,995	20,477	11,504	8,725	10,656	7,375	6,762
Water Year Types[b]												
Wet (31%)	10,652	31,489	68,384	50,337	104,544	98,550	47,110	23,167	17,294	13,330	8,218	11,761
Above Normal (25%)	4,462	7,684	13,591	72,714	73,083	50,754	22,220	12,873	7,812	9,516	7,215	6,858
Below Normal (6%)	7,265	6,122	6,422	18,492	30,475	23,872	11,217	11,286	7,475	11,265	8,443	5,548
Dry (13%)	5,912	10,977	11,391	12,546	14,092	23,047	11,064	7,913	6,523	10,777	9,104	5,869
Critical (25%)	5,960	6,150	8,654	12,160	8,757	12,031	7,855	4,544	4,247	8,754	5,167	3,682

Alternative 8 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	6,382	23,320	75,174	69,693	125,066	85,846	44,793	15,444	7,669	8,227	6,849	13,091
20%	6,302	16,375	15,602	63,693	80,642	58,833	21,043	11,556	6,928	7,078	6,823	10,538
30%	5,992	9,133	14,555	36,081	42,943	42,335	14,101	10,571	6,885	6,946	6,796	8,086
40%	5,646	5,944	12,757	22,810	21,952	24,585	13,583	8,678	6,803	6,742	6,764	4,954
50%	5,277	5,865	11,098	19,837	19,075	22,623	12,648	7,861	6,730	6,589	6,677	4,853
60%	5,013	5,844	7,926	15,646	16,546	20,681	11,793	7,635	6,545	6,439	6,598	4,739
70%	4,760	5,754	6,998	11,267	12,727	16,363	10,322	7,372	6,496	6,402	6,421	4,664
80%	4,170	5,696	6,795	9,945	8,912	11,980	9,378	6,898	6,406	6,334	6,310	4,606
90%	3,347	5,213	5,620	7,853	7,120	10,590	8,206	5,413	6,402	6,151	5,993	4,547
Long Term												
Full Simulation Period[a]	5,133	11,236	26,288	30,868	46,168	42,347	21,276	10,463	7,516	6,895	6,489	7,172
Water Year Types[b]												
Wet (31%)	5,770	24,099	77,409	52,700	111,685	98,118	46,913	16,755	10,389	8,114	6,848	12,951
Above Normal (25%)	4,542	5,213	13,723	75,430	77,035	50,794	19,074	9,953	6,897	6,891	6,747	8,086
Below Normal (6%)	5,013	5,944	6,795	21,046	28,820	21,253	12,700	11,556	7,529	6,334	6,598	4,871
Dry (13%)	5,029	8,911	9,898	12,777	14,952	24,759	14,197	8,355	6,455	6,571	6,611	4,763
Critical (25%)	4,967	6,273	7,428	12,017	9,850	12,641	9,026	7,100	6,311	6,291	5,980	4,572

Alternative 8 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-7,003	-7,817	5,498	2,420	8,059	-2,522	-680	-5,629	-3,363	-4,257	-3,141	3,115
20%	-2,039	-9,317	-3,417	6,324	483	1,866	3,163	271	-547	-4,187	-2,355	3,380
30%	-648	-1,391	-265	40	5,860	821	-677	235	102	-4,087	-1,683	1,210
40%	-158	-1,038	-541	3,436	-6,358	-4,328	2,365	-865	198	-4,006	-1,622	-1,355
50%	-296	-693	-346	1,310	-140	-2,507	1,969	-189	348	-4,040	-483	-776
60%	-302	-295	-2,047	672	4,925	-2,049	2,391	203	529	-4,012	-5	-809
70%	109	-268	-1,430	491	2,192	370	1,353	1,208	685	-3,425	143	-142
80%	-144	203	-280	150	-1,223	369	925	1,653	2,001	-1,878	395	1,000
90%	-212	842	-842	-166	751	2,806	1,321	1,260	2,573	-1,690	1,432	1,113
Long Term												
Full Simulation Period[a]	-1,882	-2,646	1,540	1,103	2,732	352	799	-1,042	-1,209	-3,762	-885	410
Water Year Types[b]												
Wet (31%)	-4,882	-7,390	9,025	2,363	7,142	-432	-197	-6,411	-6,905	-5,216	-1,369	1,191
Above Normal (25%)	80	-2,472	131	2,715	3,952	40	-3,146	-2,920	-916	-2,625	-469	1,228
Below Normal (6%)	-2,252	-178	373	2,554	-1,655	-2,619	1,483	271	54	-4,931	-1,845	-678
Dry (13%)	-883	-2,066	-1,493	230	860	1,712	3,133	442	-68	-4,206	-2,493	-1,107
Critical (25%)	-993	122	-1,226	-143	1,093	609	1,171	2,555	2,064	-2,463	814	890

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-24-13. Sacramento River at Rio Vista, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,385	31,138	69,675	67,273	117,006	88,368	45,473	21,073	11,032	12,484	9,990	9,975
20%	8,340	25,692	19,018	57,369	80,159	56,966	17,880	11,286	7,475	11,265	9,178	7,158
30%	6,640	10,524	14,820	36,041	37,083	41,514	14,778	10,336	6,783	11,033	8,479	6,876
40%	5,804	6,981	13,297	19,373	28,310	28,913	11,217	9,543	6,605	10,748	8,386	6,309
50%	5,573	6,559	11,443	18,527	19,216	25,131	10,679	8,050	6,382	10,628	7,160	5,629
60%	5,315	6,139	9,972	14,974	11,621	22,730	9,402	7,432	6,017	10,451	6,603	5,548
70%	4,651	6,022	8,428	10,776	10,535	15,993	8,969	6,164	5,811	9,827	6,277	4,806
80%	4,314	5,493	7,075	9,795	10,135	11,611	8,453	5,245	4,405	8,212	5,916	3,606
90%	3,558	4,370	6,461	8,018	6,370	7,783	6,885	4,153	3,830	7,841	4,561	3,434
Long Term												
Full Simulation Period[a]	7,015	13,882	24,749	29,766	43,436	41,995	20,477	11,504	8,725	10,656	7,375	6,762
Water Year Types[b]												
Wet (31%)	10,652	31,489	68,384	50,337	104,544	98,550	47,110	23,167	17,294	13,330	8,218	11,761
Above Normal (25%)	4,462	7,684	13,591	72,714	73,083	50,754	22,220	12,873	7,812	9,516	7,215	6,858
Below Normal (6%)	7,265	6,122	6,422	18,492	30,475	23,872	11,217	11,286	7,475	11,265	8,443	5,548
Dry (13%)	5,912	10,977	11,391	12,546	14,092	23,047	11,064	7,913	6,523	10,777	9,104	5,869
Critical (25%)	5,960	6,150	8,654	12,160	8,757	12,031	7,855	4,544	4,247	8,754	5,167	3,682

Alternative 9 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	11,289	24,344	75,570	79,014	141,135	94,966	49,723	15,695	10,232	13,492	10,706	21,351
20%	9,935	18,674	14,603	71,991	91,344	68,971	17,349	10,796	9,434	13,388	10,532	15,942
30%	8,507	13,409	13,138	39,799	44,554	44,715	12,868	10,135	8,517	12,458	10,334	12,694
40%	7,597	9,683	12,760	18,673	27,132	27,495	10,811	8,986	8,244	10,712	10,072	7,710
50%	6,772	7,348	11,014	18,108	17,147	24,280	9,596	8,825	8,155	10,454	8,969	6,124
60%	6,275	6,705	9,587	13,552	10,794	18,934	9,274	8,217	8,027	10,161	7,698	5,873
70%	5,695	6,334	8,801	9,669	9,106	12,921	8,935	7,626	7,232	9,594	6,786	5,032
80%	5,602	6,115	7,811	8,565	8,077	9,838	8,462	5,932	6,867	8,047	5,734	4,981
90%	4,909	5,430	7,467	7,954	6,953	8,012	8,123	5,797	6,418	6,664	5,525	4,870
Long Term												
Full Simulation Period[a]	7,527	13,398	27,426	32,158	48,468	44,622	21,313	10,745	8,915	10,703	8,427	10,184
Water Year Types[b]												
Wet (31%)	10,168	27,600	80,209	58,143	120,157	107,192	51,312	17,884	13,005	11,785	9,692	20,564
Above Normal (25%)	4,768	7,439	13,293	79,320	88,056	58,950	20,023	9,806	8,401	13,442	10,317	12,694
Below Normal (6%)	8,325	11,030	9,063	18,544	27,132	21,420	10,811	8,217	9,434	10,250	8,416	7,710
Dry (13%)	7,305	10,019	9,869	11,394	13,095	21,552	11,008	10,080	7,952	11,259	9,305	5,783
Critical (25%)	6,536	7,597	8,570	11,838	7,849	11,932	8,173	6,449	6,516	8,387	5,959	4,892

Alternative 9 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-2,096**	**-6,794**	5,895	11,741	24,129	6,598	4,250	**-5,378**	**-800**	1,008	716	11,376
20%	1,595	**-7,018**	**-4,415**	14,622	11,185	12,005	**-531**	**-490**	1,959	2,123	1,354	8,784
30%	1,867	2,885	**-1,682**	3,758	7,471	3,201	**-1,910**	**-200**	1,734	1,425	1,854	5,817
40%	1,793	2,702	**-537**	**-700**	**-1,177**	**-1,418**	**-407**	**-557**	1,638	**-36**	1,686	1,402
50%	1,199	790	**-430**	**-419**	**-2,069**	**-851**	**-1,083**	775	1,773	**-175**	1,810	495
60%	960	565	**-385**	**-1,422**	**-827**	**-3,796**	**-128**	786	2,010	**-291**	1,095	324
70%	1,044	312	373	**-1,107**	**-1,429**	**-3,072**	**-34**	1,462	1,421	**-233**	509	226
80%	1,288	622	736	**-1,230**	**-2,058**	**-1,773**	9	686	2,461	**-165**	**-182**	1,375
90%	1,351	1,060	1,006	**-64**	584	228	1,237	1,644	2,588	**-1,177**	964	1,436
Long Term												
Full Simulation Period[a]	512	**-484**	2,677	2,392	5,033	2,627	836	**-759**	190	46	1,053	3,422
Water Year Types[b]												
Wet (31%)	**-483**	**-3,889**	11,825	7,806	15,613	8,641	4,202	**-5,283**	**-4,289**	**-1,546**	1,475	8,803
Above Normal (25%)	306	**-245**	**-298**	6,605	14,974	8,196	**-2,197**	**-3,067**	589	3,926	3,102	5,836
Below Normal (6%)	1,061	4,908	2,641	52	**-3,342**	**-2,452**	**-407**	**-3,068**	1,959	**-1,015**	**-27**	2,162
Dry (13%)	1,393	**-958**	**-1,522**	**-1,153**	**-998**	**-1,495**	**-56**	2,167	1,429	481	201	**-86**
Critical (25%)	576	1,446	**-85**	**-322**	**-908**	**-100**	318	1,904	2,269	**-367**	792	1,210

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-24-14. Sacramento River at Rio Vista, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,264	23,068	70,313	74,530	136,892	92,547	48,275	15,884	8,934	16,021	9,177	18,538
20%	7,620	17,740	15,859	70,165	88,135	66,036	18,787	10,909	8,374	14,602	8,789	15,402
30%	7,007	11,989	14,801	38,835	42,967	43,330	13,732	9,224	7,038	14,148	8,557	10,789
40%	6,634	9,334	12,528	19,363	25,904	27,346	10,716	8,298	6,612	12,452	8,131	5,892
50%	6,456	8,378	11,840	18,753	18,511	24,353	9,762	7,492	6,310	11,447	7,390	4,962
60%	6,209	6,122	9,479	14,868	12,566	19,775	9,509	6,466	6,001	10,281	6,992	4,508
70%	5,854	5,305	8,790	12,530	9,517	13,433	8,679	6,068	5,683	9,661	4,652	3,747
80%	4,844	4,712	6,657	10,435	8,020	10,185	8,249	5,403	5,022	7,671	4,227	3,687
90%	4,050	4,310	4,702	8,940	6,244	7,626	7,239	4,331	4,296	6,343	4,117	3,509
Long Term												
Full Simulation Period[a]	6,661	12,639	26,382	31,715	47,665	43,677	20,930	9,737	7,354	11,281	6,856	8,546
Water Year Types[b]												
Wet (31%)	8,244	26,634	76,445	56,302	118,226	104,545	49,866	17,006	11,537	12,336	8,194	18,346
Above Normal (25%)	4,900	6,486	14,135	73,855	84,726	56,970	20,466	9,603	7,362	14,303	8,596	10,789
Below Normal (6%)	7,620	9,334	9,092	19,186	25,904	21,749	10,716	7,538	8,443	9,509	7,153	5,892
Dry (13%)	6,722	10,392	10,406	12,203	13,972	21,589	10,770	8,706	6,316	12,919	8,060	4,537
Critical (25%)	5,858	6,361	7,469	13,307	7,699	11,722	8,136	5,241	4,617	8,273	4,067	3,547

Alternative 1A,1B,1C (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	15,682	16,272	65,792	65,568	132,408	84,642	41,811	12,254	9,547	12,698	7,588	6,566
20%	12,107	15,756	16,241	57,006	78,482	58,368	16,796	9,965	9,416	12,040	6,722	6,396
30%	9,074	11,019	15,033	34,297	34,552	38,583	12,231	9,321	8,127	10,506	5,805	5,614
40%	8,274	6,063	14,302	20,351	21,087	23,420	10,909	8,723	7,647	8,130	5,583	5,336
50%	6,127	5,868	12,340	17,779	15,928	18,759	10,030	7,733	7,161	7,781	5,169	5,021
60%	6,033	5,799	10,334	14,418	11,657	15,636	9,788	7,531	6,695	7,387	5,111	4,927
70%	5,880	5,703	9,918	11,419	10,427	13,444	9,503	7,205	6,433	6,953	5,063	4,836
80%	5,657	5,641	7,676	9,995	9,256	10,780	8,960	5,929	5,293	5,737	4,828	4,773
90%	4,748	5,212	6,211	7,846	7,875	7,990	8,391	4,685	5,033	5,494	4,725	4,704
Long Term												
Full Simulation Period[a]	8,772	10,979	26,062	28,558	44,210	40,264	19,659	9,211	7,548	9,067	6,054	5,409
Water Year Types[b]												
Wet (31%)	6,840	24,489	72,325	50,210	108,594	97,739	45,731	14,038	10,002	10,072	5,245	5,442
Above Normal (25%)	8,885	5,221	15,033	63,891	77,978	51,156	16,180	8,297	7,911	9,735	5,528	5,146
Below Normal (6%)	17,099	6,063	9,707	18,764	21,087	15,636	9,970	7,531	7,952	5,275	4,828	4,883
Dry (13%)	6,318	8,190	11,431	13,469	12,520	19,709	11,628	9,509	7,543	11,654	8,540	5,807
Critical (25%)	10,571	5,690	8,439	11,134	9,172	11,298	8,556	5,812	5,361	6,684	5,169	5,275

Alternative 1A,1B,1C (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	6,417	-6,795	-4,522	-8,962	-4,484	-7,905	-6,463	-3,630	613	-3,323	-1,589	-11,972
20%	4,487	-1,984	381	-13,159	-9,653	-7,668	-1,991	-944	1,042	-2,563	-2,067	-9,006
30%	2,067	-971	232	-4,538	-8,415	-4,747	-1,501	97	1,089	-3,642	-2,752	-5,176
40%	1,640	-3,272	1,774	988	-4,818	-3,927	193	425	1,034	-4,321	-2,548	-555
50%	-329	-2,509	500	-973	-2,583	-5,595	268	241	851	-3,666	-2,221	59
60%	-176	-323	855	-450	-909	-4,139	279	1,065	694	-2,895	-1,881	419
70%	25	398	1,128	-1,111	911	11	824	1,137	750	-2,708	412	1,090
80%	813	929	1,018	-440	1,236	594	711	526	270	-1,934	602	1,085
90%	698	902	1,510	-1,094	1,631	364	1,152	354	737	-849	608	1,194
Long Term												
Full Simulation Period[a]	2,111	-1,659	-320	-3,157	-3,455	-3,413	-1,270	-527	194	-2,215	-802	-3,137
Water Year Types[b]												
Wet (31%)	-1,404	-2,145	-4,120	-6,092	-9,632	-6,805	-4,136	-2,968	-1,534	-2,264	-2,949	-12,904
Above Normal (25%)	3,985	-1,264	898	-9,964	-6,748	-5,814	-4,286	-1,306	549	-4,568	-3,067	-5,643
Below Normal (6%)	9,479	-3,272	615	-421	-4,818	-6,113	-746	-7	-491	-4,234	-2,325	-1,009
Dry (13%)	-405	-2,202	1,025	1,266	-1,452	-1,880	858	803	1,227	-1,265	480	1,269
Critical (25%)	4,713	-671	970	-2,172	1,473	-424	420	571	744	-1,589	1,102	1,728

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-24-15. Sacramento River at Rio Vista, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,264	23,068	70,313	74,530	136,892	92,547	48,275	15,884	8,934	16,021	9,177	18,538
20%	7,620	17,740	15,859	70,165	88,135	66,036	18,787	10,909	8,374	14,602	8,789	15,402
30%	7,007	11,989	14,801	38,835	42,967	43,330	13,732	9,224	7,038	14,148	8,557	10,789
40%	6,634	9,334	12,528	19,363	25,904	27,346	10,716	8,298	6,612	12,452	8,131	5,892
50%	6,456	8,378	11,840	18,753	18,511	24,353	9,762	7,492	6,310	11,447	7,390	4,962
60%	6,209	6,122	9,479	14,868	12,566	19,775	9,509	6,466	6,001	10,281	6,992	4,508
70%	5,854	5,305	8,790	12,530	9,517	13,433	8,679	6,068	5,683	9,661	4,652	3,747
80%	4,844	4,712	6,657	10,435	8,020	10,185	8,249	5,403	5,022	7,671	4,227	3,687
90%	4,050	4,310	4,702	8,940	6,244	7,626	7,239	4,331	4,296	6,343	4,117	3,509
Long Term												
Full Simulation Period[a]	6,661	12,639	26,382	31,715	47,665	43,677	20,930	9,737	7,354	11,281	6,856	8,546
Water Year Types[b]												
Wet (31%)	8,244	26,634	76,445	56,302	118,226	104,545	49,866	17,006	11,537	12,336	8,194	18,346
Above Normal (25%)	4,900	6,486	14,135	73,855	84,726	56,970	20,466	9,603	7,362	14,303	8,596	10,789
Below Normal (6%)	7,620	9,334	9,092	19,186	25,904	21,749	10,716	7,538	8,443	9,509	7,153	5,892
Dry (13%)	6,722	10,392	10,406	12,203	13,972	21,589	10,770	8,706	6,316	12,919	8,060	4,537
Critical (25%)	5,858	6,361	7,469	13,307	7,699	11,722	8,136	5,241	4,617	8,273	4,067	3,547

Alternative 2A,2B,2C (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	8,611	16,266	62,935	65,314	129,719	83,431	41,782	12,258	9,124	13,710	8,288	13,229
20%	7,897	15,605	15,435	58,004	78,678	57,540	17,747	10,454	8,661	11,427	7,277	10,750
30%	7,182	9,110	14,365	34,349	33,196	36,091	10,734	9,337	8,294	11,030	6,237	8,455
40%	6,484	6,156	13,620	18,640	21,114	23,520	9,873	8,560	7,544	10,637	5,903	7,960
50%	6,371	6,014	11,912	16,102	15,928	18,806	9,449	8,135	7,090	9,508	5,265	6,671
60%	6,338	5,834	10,098	14,035	11,528	15,811	8,872	7,240	6,609	7,949	5,204	5,292
70%	6,128	5,749	9,207	12,348	9,711	12,161	8,619	6,105	6,168	6,856	5,168	4,863
80%	5,975	5,561	9,069	10,078	8,506	10,144	8,309	5,733	5,600	5,853	5,078	4,716
90%	4,159	5,191	7,159	8,876	6,065	8,189	7,941	4,679	5,241	5,422	4,758	4,662
Long Term												
Full Simulation Period[a]	6,723	10,435	25,568	28,555	43,390	39,453	19,124	9,121	7,484	9,597	6,111	7,765
Water Year Types[b]												
Wet (31%)	6,706	20,475	70,898	49,741	108,615	96,439	45,344	13,394	9,832	10,375	5,574	13,139
Above Normal (25%)	7,988	5,209	14,527	63,643	74,842	51,093	15,214	8,325	6,694	13,332	7,122	8,455
Below Normal (6%)	6,014	5,985	9,069	18,640	21,114	15,811	10,008	7,240	8,680	5,214	4,888	4,886
Dry (13%)	6,023	9,013	10,693	11,444	12,484	17,708	10,978	9,780	7,713	11,336	7,574	5,982
Critical (25%)	6,933	6,520	8,920	13,245	7,808	11,332	8,053	5,869	5,499	6,966	5,209	5,193

Alternative 2A,2B,2C (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-654	-6,802	-7,378	-9,216	-7,173	-9,116	-6,492	-3,626	189	-2,311	-888	-5,309
20%	277	-2,135	-425	-12,161	-9,457	-8,496	-1,040	-455	287	-3,176	-1,512	-4,652
30%	175	-2,879	-435	-4,486	-9,771	-7,238	-2,997	113	1,256	-3,117	-2,319	-2,334
40%	-150	-3,178	1,092	-723	-4,790	-3,826	-843	262	932	-1,815	-2,228	2,069
50%	-85	-2,363	71	-2,651	-2,583	-5,547	-313	643	780	-1,939	-2,125	1,709
60%	128	-288	619	-833	-1,038	-3,964	-636	774	609	-2,332	-1,787	784
70%	274	444	417	-182	195	-1,272	-60	37	485	-2,805	517	1,116
80%	1,131	849	2,411	-357	486	-42	60	330	578	-1,818	852	1,028
90%	109	881	2,457	-64	-178	562	702	347	944	-921	641	1,153
Long Term												
Full Simulation Period[a]	62	-2,204	-814	-3,160	-4,275	-4,224	-1,805	-617	130	-1,684	-746	-781
Water Year Types[b]												
Wet (31%)	-1,537	-6,159	-5,547	-6,561	-9,610	-8,105	-4,522	-3,612	-1,705	-1,961	-2,620	-5,207
Above Normal (25%)	3,088	-1,276	392	-10,212	-9,884	-5,877	-5,252	-1,278	-669	-971	-1,473	-2,334
Below Normal (6%)	-1,606	-3,349	-24	-545	-4,790	-5,938	-708	-298	237	-4,295	-2,265	-1,006
Dry (13%)	-699	-1,379	287	-759	-1,488	-3,882	208	1,074	1,396	-1,584	-487	1,445
Critical (25%)	1,075	159	1,451	-62	109	-390	-83	628	882	-1,306	1,142	1,646

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-24-16. Sacramento River at Rio Vista, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,264	23,068	70,313	74,530	136,892	92,547	48,275	15,884	8,934	16,021	9,177	18,538
20%	7,620	17,740	15,859	70,165	88,135	66,036	18,787	10,909	8,374	14,602	8,789	15,402
30%	7,007	11,989	14,801	38,835	42,967	43,330	13,732	9,224	7,038	14,148	8,557	10,789
40%	6,634	9,334	12,528	19,363	25,904	27,346	10,716	8,298	6,612	12,452	8,131	5,892
50%	6,456	8,378	11,840	18,753	18,511	24,353	9,762	7,492	6,310	11,447	7,390	4,962
60%	6,209	6,122	9,479	14,868	12,566	19,775	9,509	6,466	6,001	10,281	6,992	4,508
70%	5,854	5,305	8,790	12,530	9,517	13,433	8,679	6,068	5,683	9,661	4,652	3,747
80%	4,844	4,712	6,657	10,435	8,020	10,185	8,249	5,403	5,022	7,671	4,227	3,687
90%	4,050	4,310	4,702	8,940	6,244	7,626	7,239	4,331	4,296	6,343	4,117	3,509
Long Term												
Full Simulation Period[a]	6,661	12,639	26,382	31,715	47,665	43,677	20,930	9,737	7,354	11,281	6,856	8,546
Water Year Types[b]												
Wet (31%)	8,244	26,634	76,445	56,302	118,226	104,545	49,866	17,006	11,537	12,336	8,194	18,346
Above Normal (25%)	4,900	6,486	14,135	73,855	84,726	56,970	20,466	9,603	7,362	14,303	8,596	10,789
Below Normal (6%)	7,620	9,334	9,092	19,186	25,904	21,749	10,716	7,538	8,443	9,509	7,153	5,892
Dry (13%)	6,722	10,392	10,406	12,203	13,972	21,589	10,770	8,706	6,316	12,919	8,060	4,537
Critical (25%)	5,858	6,361	7,469	13,307	7,699	11,722	8,136	5,241	4,617	8,273	4,067	3,547

Alternative 3 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	15,940	21,340	72,862	71,007	131,806	88,662	44,667	15,328	11,902	13,238	7,864	6,795
20%	12,322	16,254	16,538	65,210	83,273	61,378	17,744	10,116	9,267	12,465	6,689	6,580
30%	10,350	6,892	15,214	35,578	39,496	40,591	12,594	9,324	7,746	10,292	6,186	6,178
40%	8,343	6,362	12,901	20,903	23,449	25,057	10,592	8,502	7,503	9,073	5,610	5,886
50%	7,217	6,155	12,478	18,393	16,677	20,536	9,899	7,771	7,044	7,569	5,183	5,154
60%	6,092	5,965	10,322	14,145	11,873	17,847	9,667	7,567	6,639	7,138	5,123	4,938
70%	5,936	5,840	9,787	10,625	10,342	14,146	9,209	7,213	6,235	6,995	5,072	4,901
80%	5,796	5,656	7,419	10,216	8,666	10,978	8,897	5,918	6,087	6,595	4,874	4,780
90%	4,756	5,578	6,185	9,364	7,098	8,002	8,442	4,704	4,999	5,359	4,709	4,704
Long Term												
Full Simulation Period[a]	9,172	11,493	27,043	30,237	46,055	41,752	20,346	9,753	8,005	9,195	5,946	5,671
Water Year Types[b]												
Wet (31%)	7,245	25,852	76,634	52,727	114,535	100,378	47,692	15,553	11,647	10,018	5,256	6,228
Above Normal (25%)	10,654	5,959	14,269	69,987	80,779	52,836	17,934	8,266	8,583	10,199	5,777	5,448
Below Normal (6%)	12,322	5,965	9,636	19,050	23,449	17,892	9,942	7,533	7,921	5,182	4,813	4,883
Dry (13%)	6,235	8,516	11,500	13,036	13,279	21,224	11,746	10,132	7,267	11,925	7,755	5,675
Critical (25%)	11,839	5,705	8,396	12,343	8,124	11,610	8,394	5,848	5,467	6,753	5,346	5,469

Alternative 3 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	6,675	-1,728	2,549	-3,523	-5,086	-3,885	-3,607	-556	2,968	-2,783	-1,313	-11,743
20%	4,702	-1,486	678	-4,955	-4,862	-4,657	-1,044	-793	893	-2,137	-2,100	-8,822
30%	3,343	-5,097	413	-3,257	-3,471	-2,739	-1,138	100	708	-3,855	-2,370	-4,611
40%	1,709	-2,973	373	1,540	-2,456	-2,290	-124	205	890	-3,379	-2,521	-6
50%	761	-2,222	638	-360	-1,834	-3,817	137	279	734	-3,878	-2,207	192
60%	-117	-157	843	-723	-692	-1,927	159	1,101	639	-3,143	-1,869	431
70%	82	535	997	-1,905	825	713	530	1,145	552	-2,666	421	1,155
80%	952	944	762	-219	646	792	648	515	1,065	-1,076	647	1,092
90%	706	1,268	1,483	424	854	376	1,202	372	702	-983	592	1,194
Long Term												
Full Simulation Period[a]	2,511	-1,146	661	-1,479	-1,610	-1,926	-584	15	651	-2,086	-910	-2,875
Water Year Types[b]												
Wet (31%)	-999	-782	189	-3,575	-3,691	-4,167	-2,174	-1,453	110	-2,317	-2,938	-12,118
Above Normal (25%)	5,754	-527	134	-3,868	-3,948	-4,134	-2,533	-1,337	1,221	-4,104	-2,819	-5,342
Below Normal (6%)	4,702	-3,369	544	-136	-2,456	-3,856	-774	-4	-522	-4,327	-2,340	-1,009
Dry (13%)	-487	-1,876	1,095	833	-693	-365	976	1,426	951	-995	-305	1,138
Critical (25%)	5,981	-656	927	-964	425	-112	258	607	850	-1,520	1,279	1,922

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-24-17. Sacramento River at Rio Vista, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,264	23,068	70,313	74,530	136,892	92,547	48,275	15,884	8,934	16,021	9,177	18,538
20%	7,620	17,740	15,859	70,165	88,135	66,036	18,787	10,909	8,374	14,602	8,789	15,402
30%	7,007	11,989	14,801	38,835	42,967	43,330	13,732	9,224	7,038	14,148	8,557	10,789
40%	6,634	9,334	12,528	19,363	25,904	27,346	10,716	8,298	6,612	12,452	8,131	5,892
50%	6,456	8,378	11,840	18,753	18,511	24,353	9,762	7,492	6,310	11,447	7,390	4,962
60%	6,209	6,122	9,479	14,868	12,566	19,775	9,509	6,466	6,001	10,281	6,992	4,508
70%	5,854	5,305	8,790	12,530	9,517	13,433	8,679	6,068	5,683	9,661	4,652	3,747
80%	4,844	4,712	6,657	10,435	8,020	10,185	8,249	5,403	5,022	7,671	4,227	3,687
90%	4,050	4,310	4,702	8,940	6,244	7,626	7,239	4,331	4,296	6,343	4,117	3,509
Long Term												
Full Simulation Period[a]	6,661	12,639	26,382	31,715	47,665	43,677	20,930	9,737	7,354	11,281	6,856	8,546
Water Year Types[b]												
Wet (31%)	8,244	26,634	76,445	56,302	118,226	104,545	49,866	17,006	11,537	12,336	8,194	18,346
Above Normal (25%)	4,900	6,486	14,135	73,855	84,726	56,970	20,466	9,603	7,362	14,303	8,596	10,789
Below Normal (6%)	7,620	9,334	9,092	19,186	25,904	21,749	10,716	7,538	8,443	9,509	7,153	5,892
Dry (13%)	6,722	10,392	10,406	12,203	13,972	21,589	10,770	8,706	6,316	12,919	8,060	4,537
Critical (25%)	5,858	6,361	7,469	13,307	7,699	11,722	8,136	5,241	4,617	8,273	4,067	3,547

Alternative 4 H1 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,187	20,206	70,333	69,311	131,443	84,866	42,136	13,435	8,687	16,133	8,817	7,442
20%	8,529	15,767	16,431	62,099	80,671	58,773	17,570	10,493	8,326	12,145	7,696	6,940
30%	7,726	6,060	14,883	34,015	35,932	39,941	10,778	9,303	7,973	11,416	6,872	6,212
40%	7,300	5,874	13,803	18,875	22,404	24,169	9,735	8,343	7,734	11,352	6,060	5,466
50%	6,161	5,808	12,500	17,414	15,977	19,034	9,484	7,493	7,101	8,679	5,909	5,057
60%	6,100	5,754	10,759	16,746	11,723	16,738	9,134	7,197	6,881	7,212	5,204	4,944
70%	5,752	5,664	8,791	15,024	9,588	12,104	8,756	6,125	6,156	6,974	5,161	4,923
80%	5,246	5,655	8,534	13,219	8,581	10,139	8,495	5,732	5,642	5,840	5,067	4,884
90%	4,453	5,216	6,830	9,576	6,733	8,167	7,839	4,652	5,013	5,333	4,755	4,727
Long Term												
Full Simulation Period[a]	6,773	10,865	26,648	30,202	44,809	40,420	19,262	9,150	7,395	9,901	6,516	5,809
Water Year Types[b]												
Wet (31%)	6,148	24,185	74,734	50,831	111,664	97,830	45,634	13,817	9,748	11,418	6,197	5,655
Above Normal (25%)	7,320	5,270	14,560	69,393	78,491	51,457	15,495	8,165	6,553	13,996	7,179	5,500
Below Normal (6%)	8,949	5,874	8,969	18,875	22,404	16,738	9,925	7,197	8,335	5,044	4,852	4,884
Dry (13%)	5,663	8,332	11,013	12,279	12,552	19,716	11,096	9,616	7,648	11,876	8,459	7,062
Critical (25%)	7,508	5,473	9,058	14,626	8,138	11,378	8,070	5,829	5,458	6,441	5,285	5,237

Alternative 4 H1 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-78	-2,862	20	-5,219	-5,449	-7,681	-6,139	-2,449	-248	112	-360	-11,096
20%	910	-1,973	572	-8,066	-7,464	-7,263	-1,217	-416	-48	-2,458	-1,093	-8,462
30%	719	-5,929	82	-4,820	-7,035	-3,389	-2,953	79	935	-2,732	-1,685	-4,577
40%	666	-3,460	1,275	-488	-3,500	-3,178	-981	45	1,122	-1,099	-2,071	-425
50%	-295	-2,570	660	-1,339	-2,534	-5,319	-278	1	790	-2,767	-1,481	95
60%	-110	-368	1,280	1,877	-843	-3,037	-375	731	881	-3,069	-1,788	437
70%	-102	358	0	2,495	72	-1,329	77	57	473	-2,687	510	1,177
80%	402	943	1,877	2,783	560	-46	246	329	620	-1,832	841	1,197
90%	403	906	2,129	637	489	541	600	321	717	-1,010	638	1,218
Long Term												
Full Simulation Period[a]	112	-1,773	266	-1,513	-2,857	-3,257	-1,668	-587	41	-1,380	-340	-2,737
Water Year Types[b]												
Wet (31%)	-2,095	-2,449	-1,711	-5,471	-6,562	-6,715	-4,232	-3,189	-1,788	-918	-1,997	-12,691
Above Normal (25%)	2,420	-1,216	424	-4,462	-6,235	-5,513	-4,972	-1,438	-809	-306	-1,417	-5,289
Below Normal (6%)	1,329	-3,460	-123	-311	-3,500	-5,011	-791	-341	-108	-4,465	-2,301	-1,007
Dry (13%)	-1,059	-2,060	608	77	-1,420	-1,873	326	910	1,331	-1,043	398	2,525
Critical (25%)	1,650	-889	1,590	1,319	438	-344	-66	588	841	-1,831	1,218	1,690

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-24-18. Sacramento River at Rio Vista, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,264	23,068	70,313	74,530	136,892	92,547	48,275	15,884	8,934	16,021	9,177	18,538
20%	7,620	17,740	15,859	70,165	88,135	66,036	18,787	10,909	8,374	14,602	8,789	15,402
30%	7,007	11,989	14,801	38,835	42,967	43,330	13,732	9,224	7,038	14,148	8,557	10,789
40%	6,634	9,334	12,528	19,363	25,904	27,346	10,716	8,298	6,612	12,452	8,131	5,892
50%	6,456	8,378	11,840	18,753	18,511	24,353	9,762	7,492	6,310	11,447	7,390	4,962
60%	6,209	6,122	9,479	14,868	12,566	19,775	9,509	6,466	6,001	10,281	6,992	4,508
70%	5,854	5,305	8,790	12,530	9,517	13,433	8,679	6,068	5,683	9,661	4,652	3,747
80%	4,844	4,712	6,657	10,435	8,020	10,185	8,249	5,403	5,022	7,671	4,227	3,687
90%	4,050	4,310	4,702	8,940	6,244	7,626	7,239	4,331	4,296	6,343	4,117	3,509
Long Term												
Full Simulation Period[a]	6,661	12,639	26,382	31,715	47,665	43,677	20,930	9,737	7,354	11,281	6,856	8,546
Water Year Types[b]												
Wet (31%)	8,244	26,634	76,445	56,302	118,226	104,545	49,866	17,006	11,537	12,336	8,194	18,346
Above Normal (25%)	4,900	6,486	14,135	73,855	84,726	56,970	20,466	9,603	7,362	14,303	8,596	10,789
Below Normal (6%)	7,620	9,334	9,092	19,186	25,904	21,749	10,716	7,538	8,443	9,509	7,153	5,892
Dry (13%)	6,722	10,392	10,406	12,203	13,972	21,589	10,770	8,706	6,316	12,919	8,060	4,537
Critical (25%)	5,858	6,361	7,469	13,307	7,699	11,722	8,136	5,241	4,617	8,273	4,067	3,547

Alternative 4 H2 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	11,319	20,957	71,876	69,443	130,968	85,167	44,614	14,191	8,816	10,402	8,451	6,601
20%	9,723	16,570	17,025	61,275	80,681	58,799	22,884	12,714	7,482	9,830	7,564	6,591
30%	6,956	5,908	15,421	34,034	37,388	41,208	19,393	10,849	7,036	9,228	6,815	5,999
40%	6,484	5,874	14,600	18,828	22,729	24,278	12,457	9,884	7,015	8,503	5,901	5,454
50%	6,150	5,833	11,474	16,530	16,139	19,688	9,461	8,361	6,170	7,778	5,827	5,221
60%	6,109	5,751	7,988	14,157	11,292	17,447	8,909	7,602	6,073	7,192	5,197	4,978
70%	6,036	5,715	6,997	13,930	9,550	12,735	8,799	6,573	5,835	6,147	5,126	4,936
80%	5,112	5,636	6,967	10,757	8,522	10,146	8,045	5,410	5,456	5,698	5,025	4,901
90%	4,792	5,084	5,946	9,886	6,285	7,925	7,684	4,610	4,944	4,997	4,846	4,776
Long Term												
Full Simulation Period[a]	7,112	11,016	26,276	30,260	44,980	40,779	21,183	9,848	6,940	7,895	6,294	5,566
Water Year Types[b]												
Wet (31%)	6,479	24,560	75,539	50,782	111,759	97,887	49,765	15,190	8,985	8,464	6,109	5,733
Above Normal (25%)	7,929	5,183	15,421	72,371	79,764	51,813	24,080	11,527	6,345	7,513	6,821	5,135
Below Normal (6%)	5,112	5,827	7,009	18,828	23,432	18,657	10,003	7,602	8,694	5,221	4,850	4,901
Dry (13%)	5,792	8,437	10,307	11,735	12,546	20,160	10,645	9,285	6,907	9,867	7,621	5,631
Critical (25%)	8,747	5,616	7,836	14,106	7,900	11,598	7,824	5,802	5,217	6,549	5,460	5,686

Alternative 4 H2 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,054	-2,110	1,563	-5,087	-5,924	-7,380	-3,660	-1,694	-119	-5,620	-726	-11,937
20%	2,103	-1,170	1,166	-8,890	-7,454	-7,237	4,097	1,805	-892	-4,773	-1,225	-8,811
30%	-51	-6,081	620	-4,801	-5,579	-2,122	5,662	1,625	-2	-4,920	-1,741	-4,790
40%	-150	-3,460	2,072	-535	-3,175	-3,068	1,741	1,587	403	-3,949	-2,229	-437
50%	-306	-2,545	-366	-2,223	-2,372	-4,665	-302	869	-140	-3,669	-1,563	259
60%	-100	-371	-1,491	-711	-1,274	-2,327	-599	1,136	73	-3,089	-1,795	471
70%	182	409	-1,793	1,400	34	-698	120	505	152	-3,513	474	1,190
80%	268	924	309	322	501	-39	-205	7	434	-1,974	799	1,214
90%	742	774	1,244	946	42	298	444	278	647	-1,346	729	1,267
Long Term												
Full Simulation Period[a]	451	-1,622	-106	-1,455	-2,685	-2,898	253	110	-414	-3,386	-562	-2,980
Water Year Types[b]												
Wet (31%)	-1,764	-2,074	-906	-5,520	-6,467	-6,658	-101	-1,816	-2,551	-3,872	-2,086	-12,613
Above Normal (25%)	3,028	-1,303	1,286	-1,484	-4,962	-5,157	3,614	1,924	-1,017	-6,790	-1,775	-5,654
Below Normal (6%)	-2,508	-3,507	-2,083	-358	-2,472	-3,091	-713	64	251	-4,289	-2,303	-990
Dry (13%)	-931	-1,955	-99	-468	-1,426	-1,429	-125	579	591	-3,052	-439	1,093
Critical (25%)	2,889	-745	368	799	201	-124	-312	561	600	-1,724	1,393	2,138

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-24-19. Sacramento River at Rio Vista, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,264	23,068	70,313	74,530	136,892	92,547	48,275	15,884	8,934	16,021	9,177	18,538
20%	7,620	17,740	15,859	70,165	88,135	66,036	18,787	10,909	8,374	14,602	8,789	15,402
30%	7,007	11,989	14,801	38,835	42,967	43,330	13,732	9,224	7,038	14,148	8,557	10,789
40%	6,634	9,334	12,528	19,363	25,904	27,346	10,716	8,298	6,612	12,452	8,131	5,892
50%	6,456	8,378	11,840	18,753	18,511	24,353	9,762	7,492	6,310	11,447	7,390	4,962
60%	6,209	6,122	9,479	14,868	12,566	19,775	9,509	6,466	6,001	10,281	6,992	4,508
70%	5,854	5,305	8,790	12,530	9,517	13,433	8,679	6,068	5,683	9,661	4,652	3,747
80%	4,844	4,712	6,657	10,435	8,020	10,185	8,249	5,403	5,022	7,671	4,227	3,687
90%	4,050	4,310	4,702	8,940	6,244	7,626	7,239	4,331	4,296	6,343	4,117	3,509
Long Term												
Full Simulation Period[a]	6,661	12,639	26,382	31,715	47,665	43,677	20,930	9,737	7,354	11,281	6,856	8,546
Water Year Types[b]												
Wet (31%)	8,244	26,634	76,445	56,302	118,226	104,545	49,866	17,006	11,537	12,336	8,194	18,346
Above Normal (25%)	4,900	6,486	14,135	73,855	84,726	56,970	20,466	9,603	7,362	14,303	8,596	10,789
Below Normal (6%)	7,620	9,334	9,092	19,186	25,904	21,749	10,716	7,538	8,443	9,509	7,153	5,892
Dry (13%)	6,722	10,392	10,406	12,203	13,972	21,589	10,770	8,706	6,316	12,919	8,060	4,537
Critical (25%)	5,858	6,361	7,469	13,307	7,699	11,722	8,136	5,241	4,617	8,273	4,067	3,547

Alternative 4 H3 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	7,902	20,299	67,654	68,440	129,825	83,941	42,111	13,378	8,934	16,151	8,750	13,134
20%	7,108	16,225	15,438	60,964	80,614	58,768	17,632	10,452	8,344	11,981	7,745	11,002
30%	6,513	9,062	15,022	34,339	36,140	37,764	10,757	9,278	8,016	11,425	6,809	8,226
40%	6,326	6,146	14,273	19,023	22,457	24,197	9,746	8,503	7,832	10,706	5,881	8,131
50%	6,270	6,003	12,650	17,866	16,140	19,018	8,985	8,038	7,017	8,062	5,201	6,982
60%	5,976	5,842	10,134	16,398	11,697	16,750	8,743	7,192	6,602	7,434	5,183	6,544
70%	5,746	5,737	9,192	12,317	9,734	12,186	8,547	6,098	6,121	6,714	5,110	4,917
80%	5,461	5,592	9,004	10,070	8,505	10,148	8,299	5,728	5,600	5,990	5,070	4,789
90%	4,644	5,205	6,134	8,753	6,165	8,162	7,921	4,666	5,012	5,283	4,915	4,654
Long Term												
Full Simulation Period[a]	6,549	11,004	26,287	29,387	44,322	39,905	19,231	9,224	7,400	9,750	6,273	7,860
Water Year Types[b]												
Wet (31%)	6,196	22,944	73,456	50,590	110,326	96,808	45,956	13,812	9,728	11,283	6,222	13,060
Above Normal (25%)	8,879	5,289	15,374	66,617	77,768	51,417	15,538	8,255	6,598	13,969	7,247	8,226
Below Normal (6%)	5,976	5,969	6,844	18,734	22,457	16,750	9,908	7,192	8,799	5,085	4,852	4,883
Dry (13%)	6,007	8,989	10,752	11,568	12,633	18,617	10,929	9,834	7,644	11,635	7,625	6,527
Critical (25%)	6,447	6,357	9,234	13,919	7,866	11,440	7,835	5,861	5,382	6,260	5,126	5,217

Alternative 4 H3 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,363	-2,769	-2,659	-6,089	-7,067	-8,606	-6,164	-2,506	0	130	-426	-5,404
20%	-512	-1,515	-421	-9,201	-7,521	-7,268	-1,155	-457	-30	-2,622	-1,044	-4,400
30%	-494	-2,927	222	-4,496	-6,827	-5,566	-2,975	54	978	-2,722	-1,747	-2,564
40%	-308	-3,188	1,745	-340	-3,447	-3,149	-971	205	1,220	-1,746	-2,249	2,239
50%	-185	-2,374	809	-887	-2,371	-5,335	-777	546	706	-3,385	-2,189	2,020
60%	-233	-280	654	1,530	-869	-3,025	-765	727	601	-2,848	-1,809	2,037
70%	-108	432	402	-212	217	-1,247	-132	31	438	-2,947	458	1,170
80%	617	880	2,346	-366	485	-37	50	325	578	-1,681	844	1,102
90%	595	895	1,433	-187	-79	535	682	334	716	-1,060	798	1,144
Long Term												
Full Simulation Period[a]	-112	-1,634	-95	-2,328	-3,343	-3,772	-1,699	-513	46	-1,531	-584	-686
Water Year Types[b]												
Wet (31%)	-2,048	-3,690	-2,989	-5,712	-7,899	-7,737	-3,910	-3,195	-1,809	-1,053	-1,972	-5,286
Above Normal (25%)	3,978	-1,196	1,239	-7,238	-6,959	-5,553	-4,929	-1,349	-765	-334	-1,349	-2,564
Below Normal (6%)	-1,644	-3,365	-2,248	-452	-3,447	-4,999	-809	-345	356	-4,424	-2,301	-1,009
Dry (13%)	-716	-1,403	347	-635	-1,339	-2,972	159	1,128	1,328	-1,284	-436	1,990
Critical (25%)	589	-4	1,765	613	166	-282	-301	620	765	-2,012	1,059	1,669

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-24-20. Sacramento River at Rio Vista, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,264	23,068	70,313	74,530	136,892	92,547	48,275	15,884	8,934	16,021	9,177	18,538
20%	7,620	17,740	15,859	70,165	88,135	66,036	18,787	10,909	8,374	14,602	8,789	15,402
30%	7,007	11,989	14,801	38,835	42,967	43,330	13,732	9,224	7,038	14,148	8,557	10,789
40%	6,634	9,334	12,528	19,363	25,904	27,346	10,716	8,298	6,612	12,452	8,131	5,892
50%	6,456	8,378	11,840	18,753	18,511	24,353	9,762	7,492	6,310	11,447	7,390	4,962
60%	6,209	6,122	9,479	14,868	12,566	19,775	9,509	6,466	6,001	10,281	6,992	4,508
70%	5,854	5,305	8,790	12,530	9,517	13,433	8,679	6,068	5,683	9,661	4,652	3,747
80%	4,844	4,712	6,657	10,435	8,020	10,185	8,249	5,403	5,022	7,671	4,227	3,687
90%	4,050	4,310	4,702	8,940	6,244	7,626	7,239	4,331	4,296	6,343	4,117	3,509
Long Term												
Full Simulation Period[a]	6,661	12,639	26,382	31,715	47,665	43,677	20,930	9,737	7,354	11,281	6,856	8,546
Water Year Types[b]												
Wet (31%)	8,244	26,634	76,445	56,302	118,226	104,545	49,866	17,006	11,537	12,336	8,194	18,346
Above Normal (25%)	4,900	6,486	14,135	73,855	84,726	56,970	20,466	9,603	7,362	14,303	8,596	10,789
Below Normal (6%)	7,620	9,334	9,092	19,186	25,904	21,749	10,716	7,538	8,443	9,509	7,153	5,892
Dry (13%)	6,722	10,392	10,406	12,203	13,972	21,589	10,770	8,706	6,316	12,919	8,060	4,537
Critical (25%)	5,858	6,361	7,469	13,307	7,699	11,722	8,136	5,241	4,617	8,273	4,067	3,547

Alternative 4 H4 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,283	19,018	67,659	69,456	129,929	85,549	44,707	14,073	8,689	10,248	8,349	13,185
20%	8,723	16,197	15,493	61,806	80,704	58,800	22,883	12,606	7,378	9,332	7,560	10,381
30%	7,074	9,097	14,825	34,032	37,181	40,325	19,366	10,789	7,035	8,667	7,409	8,235
40%	6,527	6,063	14,503	18,850	22,726	24,219	12,591	9,786	6,786	8,107	6,146	7,050
50%	6,428	5,899	11,439	16,355	16,119	19,085	9,610	8,338	6,169	7,296	5,945	6,223
60%	6,325	5,792	9,247	13,707	11,373	16,792	8,897	7,606	6,063	6,280	5,688	6,122
70%	6,098	5,741	8,289	10,433	9,548	12,198	8,468	6,460	5,836	6,133	5,449	5,665
80%	5,915	5,644	7,416	9,041	8,501	10,155	8,066	5,409	5,657	6,004	5,155	5,214
90%	4,355	5,163	6,207	8,189	6,382	7,862	7,826	4,596	4,942	5,446	4,971	4,877
Long Term												
Full Simulation Period[a]	6,957	11,052	25,873	29,198	44,509	40,429	21,200	9,803	6,912	7,722	6,459	7,803
Water Year Types[b]												
Wet (31%)	7,333	23,063	73,487	50,695	110,418	97,703	49,806	15,095	8,987	8,423	6,325	12,929
Above Normal (25%)	8,674	5,191	15,201	71,368	78,819	51,598	24,191	11,409	6,348	7,516	6,821	8,235
Below Normal (6%)	5,966	5,945	8,526	18,850	22,847	16,792	9,962	7,606	8,439	5,210	4,871	4,972
Dry (13%)	6,011	8,892	10,107	11,586	12,537	19,832	10,425	9,260	6,820	9,067	7,637	5,724
Critical (25%)	6,925	6,538	8,131	11,292	7,969	11,349	7,986	5,802	5,244	6,669	5,798	5,758

Alternative 4 H4 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	19	-4,049	-2,655	-5,073	-6,963	-6,998	-3,567	-1,812	-246	-5,773	-827	-5,353
20%	1,103	-1,543	-367	-8,359	-7,431	-7,236	4,095	1,697	-996	-5,270	-1,229	-5,021
30%	67	-2,892	24	-4,803	-5,786	-3,005	5,634	1,565	-3	-5,481	-1,148	-2,554
40%	-107	-3,271	1,975	-512	-3,179	-3,128	1,875	1,488	173	-4,344	-1,985	1,159
50%	-28	-2,479	-402	-2,398	-2,392	-5,268	-152	846	-141	-4,151	-1,445	1,261
60%	115	-330	-232	-1,161	-1,193	-2,983	-612	1,140	62	-4,001	-1,304	1,615
70%	244	436	-501	-2,097	31	-1,235	-211	392	153	-3,527	798	1,918
80%	1,071	932	759	-1,394	481	-31	-183	6	635	-1,667	928	1,527
90%	305	853	1,505	-751	138	235	586	264	646	-897	854	1,368
Long Term												
Full Simulation Period[a]	296	-1,586	-509	-2,518	-3,156	-3,248	270	66	-442	-3,560	-397	-744
Water Year Types[b]												
Wet (31%)	-911	-3,571	-2,958	-5,607	-7,808	-6,841	-61	-1,912	-2,549	-3,913	-1,869	-5,417
Above Normal (25%)	3,773	-1,295	1,066	-2,487	-5,907	-5,372	3,725	1,805	-1,015	-6,787	-1,774	-2,554
Below Normal (6%)	-1,654	-3,390	-566	-335	-3,058	-4,957	-754	68	-4	-4,300	-2,282	-920
Dry (13%)	-711	-1,501	-298	-617	-1,435	-1,758	-345	554	503	-3,853	-423	1,186
Critical (25%)	1,067	177	663	-2,015	270	-373	-150	561	628	-1,604	1,731	2,211

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-24-21. Sacramento River at Rio Vista, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,264	23,068	70,313	74,530	136,892	92,547	48,275	15,884	8,934	16,021	9,177	18,538
20%	7,620	17,740	15,859	70,165	88,135	66,036	18,787	10,909	8,374	14,602	8,789	15,402
30%	7,007	11,989	14,801	38,835	42,967	43,330	13,732	9,224	7,038	14,148	8,557	10,789
40%	6,634	9,334	12,528	19,363	25,904	27,346	10,716	8,298	6,612	12,452	8,131	5,892
50%	6,456	8,378	11,840	18,753	18,511	24,353	9,762	7,492	6,310	11,447	7,390	4,962
60%	6,209	6,122	9,479	14,868	12,566	19,775	9,509	6,466	6,001	10,281	6,992	4,508
70%	5,854	5,305	8,790	12,530	9,517	13,433	8,679	6,068	5,683	9,661	4,652	3,747
80%	4,844	4,712	6,657	10,435	8,020	10,185	8,249	5,403	5,022	7,671	4,227	3,687
90%	4,050	4,310	4,702	8,940	6,244	7,626	7,239	4,331	4,296	6,343	4,117	3,509
Long Term												
Full Simulation Period[a]	6,661	12,639	26,382	31,715	47,665	43,677	20,930	9,737	7,354	11,281	6,856	8,546
Water Year Types[b]												
Wet (31%)	8,244	26,634	76,445	56,302	118,226	104,545	49,866	17,006	11,537	12,336	8,194	18,346
Above Normal (25%)	4,900	6,486	14,135	73,855	84,726	56,970	20,466	9,603	7,362	14,303	8,596	10,789
Below Normal (6%)	7,620	9,334	9,092	19,186	25,904	21,749	10,716	7,538	8,443	9,509	7,153	5,892
Dry (13%)	6,722	10,392	10,406	12,203	13,972	21,589	10,770	8,706	6,316	12,919	8,060	4,537
Critical (25%)	5,858	6,361	7,469	13,307	7,699	11,722	8,136	5,241	4,617	8,273	4,067	3,547

Alternative 5 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	10,127	22,572	72,797	73,389	134,742	89,017	47,090	15,405	11,034	13,996	9,815	15,373
20%	8,145	16,794	15,992	66,062	85,802	63,951	18,254	9,771	10,073	12,945	8,744	12,954
30%	7,906	10,172	14,854	37,764	41,064	42,308	12,428	9,294	8,877	12,315	8,050	9,161
40%	7,351	7,806	14,090	19,239	24,893	26,354	11,017	8,058	8,150	12,071	5,971	5,546
50%	6,785	7,109	12,314	18,324	17,584	22,716	9,980	7,492	7,968	10,792	5,497	5,472
60%	6,124	6,575	10,328	14,768	11,966	18,782	9,146	6,920	7,236	10,129	5,213	5,192
70%	5,810	6,130	10,003	12,479	10,661	13,132	9,106	6,215	6,758	8,158	5,206	5,000
80%	5,563	5,765	7,169	10,404	8,891	10,597	8,933	5,899	5,688	7,326	4,641	4,783
90%	4,734	5,559	6,240	9,067	6,396	8,426	8,441	4,761	5,259	5,502	4,584	4,708
Long Term												
Full Simulation Period[a]	7,026	12,179	27,145	31,303	46,847	42,642	20,789	9,662	8,582	10,345	6,639	8,147
Water Year Types[b]												
Wet (31%)	7,316	26,331	77,009	54,460	115,816	101,846	48,898	16,168	12,886	11,328	7,488	15,395
Above Normal (25%)	5,643	6,633	15,041	73,030	82,716	55,353	18,606	8,688	9,112	12,688	6,975	9,161
Below Normal (6%)	5,916	6,678	10,056	19,239	24,893	19,702	10,252	7,377	10,117	10,225	5,496	4,576
Dry (13%)	6,382	9,336	11,024	12,196	13,502	21,029	11,261	9,321	7,523	11,466	8,105	5,053
Critical (25%)	8,083	6,451	8,409	13,783	8,393	12,073	8,903	5,575	5,467	7,750	4,880	5,134

Alternative 5 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	863	-496	2,483	-1,140	-2,150	-3,530	-1,185	-479	2,099	-2,025	639	-3,165
20%	525	-946	133	-4,103	-2,333	-2,085	-534	-1,138	1,699	-1,658	-45	-2,448
30%	899	-1,817	53	-1,071	-1,903	-1,022	-1,304	70	1,840	-1,833	-506	-1,629
40%	717	-1,528	1,562	-124	-1,012	-992	301	-240	1,538	-381	-2,159	-346
50%	329	-1,269	473	-429	-927	-1,637	218	0	1,658	-655	-1,893	510
60%	-85	453	848	-100	-600	-992	-363	455	1,235	-153	-1,779	685
70%	-44	825	1,213	-51	1,144	-301	427	147	1,075	-1,503	554	1,253
80%	719	1,053	512	-31	871	412	684	497	666	-346	415	1,095
90%	684	1,250	1,538	127	153	800	1,201	430	963	-841	467	1,199
Long Term												
Full Simulation Period[a]	365	-459	763	-413	-818	-1,035	-141	-76	1,228	-936	-217	-399
Water Year Types[b]												
Wet (31%)	-927	-303	564	-1,842	-2,410	-2,699	-968	-839	1,350	-1,008	-706	-2,951
Above Normal (25%)	742	148	906	-825	-2,010	-1,617	-1,860	-915	1,749	-1,615	-1,620	-1,629
Below Normal (6%)	-1,703	-2,656	963	53	-1,012	-2,046	-464	-160	1,674	715	-1,657	-1,316
Dry (13%)	-341	-1,056	619	-6	-470	-561	491	615	1,207	-1,453	45	516
Critical (25%)	2,225	90	940	477	694	352	767	334	851	-523	813	1,586

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-24-22. Sacramento River at Rio Vista, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,264	23,068	70,313	74,530	136,892	92,547	48,275	15,884	8,934	16,021	9,177	18,538
20%	7,620	17,740	15,859	70,165	88,135	66,036	18,787	10,909	8,374	14,602	8,789	15,402
30%	7,007	11,989	14,801	38,835	42,967	43,330	13,732	9,224	7,038	14,148	8,557	10,789
40%	6,634	9,334	12,528	19,363	25,904	27,346	10,716	8,298	6,612	12,452	8,131	5,892
50%	6,456	8,378	11,840	18,753	18,511	24,353	9,762	7,492	6,310	11,447	7,390	4,962
60%	6,209	6,122	9,479	14,868	12,566	19,775	9,509	6,466	6,001	10,281	6,992	4,508
70%	5,854	5,305	8,790	12,530	9,517	13,433	8,679	6,068	5,683	9,661	4,652	3,747
80%	4,844	4,712	6,657	10,435	8,020	10,185	8,249	5,403	5,022	7,671	4,227	3,687
90%	4,050	4,310	4,702	8,940	6,244	7,626	7,239	4,331	4,296	6,343	4,117	3,509
Long Term												
Full Simulation Period[a]	6,661	12,639	26,382	31,715	47,665	43,677	20,930	9,737	7,354	11,281	6,856	8,546
Water Year Types[b]												
Wet (31%)	8,244	26,634	76,445	56,302	118,226	104,545	49,866	17,006	11,537	12,336	8,194	18,346
Above Normal (25%)	4,900	6,486	14,135	73,855	84,726	56,970	20,466	9,603	7,362	14,303	8,596	10,789
Below Normal (6%)	7,620	9,334	9,092	19,186	25,904	21,749	10,716	7,538	8,443	9,509	7,153	5,892
Dry (13%)	6,722	10,392	10,406	12,203	13,972	21,589	10,770	8,706	6,316	12,919	8,060	4,537
Critical (25%)	5,858	6,361	7,469	13,307	7,699	11,722	8,136	5,241	4,617	8,273	4,067	3,547

Alternative 6A,6B,6C (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	6,731	22,333	73,043	64,733	126,108	83,610	40,942	11,700	8,154	6,717	5,298	10,663
20%	6,477	14,747	15,743	59,700	78,498	57,725	17,250	8,784	6,476	5,292	5,229	6,517
30%	5,822	9,194	14,735	34,284	34,353	36,976	10,675	8,069	6,327	5,262	5,169	6,001
40%	5,744	6,028	13,067	18,674	22,235	23,425	9,798	7,709	6,023	5,173	5,107	5,097
50%	5,684	5,870	11,103	17,172	16,109	18,934	9,114	6,986	5,965	4,806	5,045	5,028
60%	5,475	5,773	8,127	13,631	14,698	15,850	8,667	6,412	5,901	4,723	4,928	4,903
70%	5,311	5,701	7,000	10,762	10,799	12,201	8,583	5,736	5,287	4,644	4,832	4,727
80%	5,107	5,663	6,819	9,111	8,536	10,100	7,989	4,978	4,760	4,549	4,666	4,697
90%	4,058	5,068	5,628	7,797	6,216	6,889	7,493	4,319	4,680	4,440	4,653	4,672
Long Term												
Full Simulation Period[a]	5,563	10,667	25,896	28,138	44,022	39,373	18,816	8,346	6,388	5,265	4,983	6,147
Water Year Types[b]												
Wet (31%)	6,166	21,896	75,619	48,777	109,829	96,691	44,785	13,332	8,342	6,814	5,254	9,926
Above Normal (25%)	4,034	5,068	13,827	67,187	73,830	49,489	15,318	8,246	5,931	5,222	5,209	6,001
Below Normal (6%)	5,744	6,028	6,819	18,674	22,270	15,850	10,062	7,289	8,335	4,491	5,013	5,055
Dry (13%)	5,892	8,942	9,909	11,709	12,335	18,807	10,776	7,704	6,068	4,897	4,911	4,925
Critical (25%)	5,393	6,233	7,550	11,043	9,152	10,630	7,621	5,122	4,873	4,492	4,727	4,380

Alternative 6A,6B,6C (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-2,534	-735	2,730	-9,797	-10,784	-8,937	-7,332	-4,185	-781	-9,304	-3,878	-7,875
20%	-1,143	-2,994	-117	-10,465	-9,637	-8,310	-1,538	-2,126	-1,898	-9,310	-3,560	-8,885
30%	-1,185	-2,795	-65	-4,551	-8,614	-6,354	-3,056	-1,155	-711	-8,886	-3,388	-4,789
40%	-890	-3,307	539	-689	-3,669	-3,921	-918	-588	-589	-7,279	-3,024	-794
50%	-772	-2,508	-737	-1,580	-2,402	-5,419	-648	-506	-346	-6,640	-2,345	66
60%	-734	-349	-1,352	-1,237	2,132	-3,925	-842	-53	-100	-5,559	-2,064	395
70%	-543	396	-1,790	-1,767	1,283	-1,232	-96	-332	-396	-5,017	181	981
80%	263	951	162	-1,325	516	-85	-260	-425	-262	-3,123	439	1,010
90%	8	758	926	-1,143	-28	-738	254	-13	384	-1,902	536	1,162
Long Term												
Full Simulation Period[a]	-1,098	-1,971	-486	-3,577	-3,643	-4,304	-2,114	-1,391	-966	-6,016	-1,873	-2,399
Water Year Types[b]												
Wet (31%)	-2,078	-4,738	-826	-7,525	-8,397	-7,854	-5,081	-3,674	-3,195	-5,521	-2,941	-8,421
Above Normal (25%)	-866	-1,418	-309	-6,668	-10,896	-7,482	-5,148	-1,357	-1,431	-9,081	-3,386	-4,789
Below Normal (6%)	-1,876	-3,307	-2,273	-512	-3,634	-5,899	-654	-249	-108	-5,018	-2,140	-837
Dry (13%)	-830	-1,450	-497	-494	-1,637	-2,782	6	-1,001	-248	-8,022	-3,149	388
Critical (25%)	-465	-129	81	-2,263	1,453	-1,092	-515	-119	256	-3,781	660	833

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-24-23. Sacramento River at Rio Vista, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,264	23,068	70,313	74,530	136,892	92,547	48,275	15,884	8,934	16,021	9,177	18,538
20%	7,620	17,740	15,859	70,165	88,135	66,036	18,787	10,909	8,374	14,602	8,789	15,402
30%	7,007	11,989	14,801	38,835	42,967	43,330	13,732	9,224	7,038	14,148	8,557	10,789
40%	6,634	9,334	12,528	19,363	25,904	27,346	10,716	8,298	6,612	12,452	8,131	5,892
50%	6,456	8,378	11,840	18,753	18,511	24,353	9,762	7,492	6,310	11,447	7,390	4,962
60%	6,209	6,122	9,479	14,868	12,566	19,775	9,509	6,466	6,001	10,281	6,992	4,508
70%	5,854	5,305	8,790	12,530	9,517	13,433	8,679	6,068	5,683	9,661	4,652	3,747
80%	4,844	4,712	6,657	10,435	8,020	10,185	8,249	5,403	5,022	7,671	4,227	3,687
90%	4,050	4,310	4,702	8,940	6,244	7,626	7,239	4,331	4,296	6,343	4,117	3,509
Long Term												
Full Simulation Period[a]	6,661	12,639	26,382	31,715	47,665	43,677	20,930	9,737	7,354	11,281	6,856	8,546
Water Year Types[b]												
Wet (31%)	8,244	26,634	76,445	56,302	118,226	104,545	49,866	17,006	11,537	12,336	8,194	18,346
Above Normal (25%)	4,900	6,486	14,135	73,855	84,726	56,970	20,466	9,603	7,362	14,303	8,596	10,789
Below Normal (6%)	7,620	9,334	9,092	19,186	25,904	21,749	10,716	7,538	8,443	9,509	7,153	5,892
Dry (13%)	6,722	10,392	10,406	12,203	13,972	21,589	10,770	8,706	6,316	12,919	8,060	4,537
Critical (25%)	5,858	6,361	7,469	13,307	7,699	11,722	8,136	5,241	4,617	8,273	4,067	3,547

Alternative 7 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	6,540	20,296	75,109	69,223	129,735	86,590	40,914	12,693	7,919	14,141	8,552	13,140
20%	6,380	15,884	15,495	63,803	80,692	58,851	17,249	8,698	7,160	11,535	7,855	10,462
30%	6,128	9,185	14,556	34,569	36,083	38,000	11,166	7,920	6,970	11,047	7,512	8,082
40%	5,945	6,380	12,916	18,877	22,732	24,331	9,584	7,624	6,866	10,364	7,349	6,407
50%	5,774	5,959	11,123	17,102	16,743	19,570	9,244	6,902	6,736	9,858	7,053	5,686
60%	5,713	5,876	8,203	13,781	14,995	17,595	9,175	6,187	6,544	8,954	6,890	4,971
70%	5,530	5,770	7,162	10,522	11,080	13,018	8,516	5,742	6,504	7,786	6,715	4,805
80%	5,221	5,719	6,851	9,172	8,617	10,324	8,077	5,396	6,424	6,463	6,545	4,641
90%	4,000	5,644	5,640	7,912	6,235	7,141	7,576	5,338	6,390	6,249	6,399	4,544
Long Term												
Full Simulation Period[a]	5,557	11,163	26,300	29,367	45,195	40,362	18,964	8,657	7,408	9,751	7,331	7,421
Water Year Types[b]												
Wet (31%)	6,164	23,492	77,267	50,849	111,976	98,149	45,029	13,695	9,676	11,075	7,251	13,030
Above Normal (25%)	4,231	6,053	13,728	72,061	77,499	50,350	15,250	8,161	7,013	10,592	7,120	8,082
Below Normal (6%)	5,221	6,010	6,851	18,877	22,732	18,431	10,632	7,375	8,005	10,364	7,914	6,407
Dry (13%)	5,834	8,792	9,856	11,786	12,890	19,753	10,930	7,665	6,561	11,979	8,262	4,933
Critical (25%)	5,446	6,271	7,600	11,267	9,184	11,012	7,692	5,875	6,310	6,449	6,619	4,864

Alternative 7 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-2,725	-2,772	4,795	-5,307	-7,157	-5,957	-7,360	-3,191	-1,016	-1,880	-625	-5,398
20%	-1,240	-1,856	-365	-6,362	-7,443	-7,185	-1,538	-2,212	-1,214	-3,067	-934	-4,940
30%	-879	-2,804	-244	-4,266	-6,884	-5,329	-2,566	-1,304	-68	-3,101	-1,044	-2,708
40%	-689	-2,955	387	-486	-3,172	-3,015	-1,132	-674	253	-2,087	-781	516
50%	-682	-2,418	-717	-1,650	-1,768	-4,783	-519	-590	426	-1,588	-337	724
60%	-497	-246	-1,276	-1,087	2,429	-2,180	-333	-279	544	-1,327	-102	463
70%	-325	465	-1,628	-2,008	1,563	-415	-163	-326	821	-1,875	2,063	1,058
80%	377	1,007	194	-1,263	596	138	-172	-7	1,402	-1,208	2,318	954
90%	-50	1,334	938	-1,028	-9	-486	336	1,007	2,093	-94	2,282	1,035
Long Term												
Full Simulation Period[a]	-1,104	-1,476	-82	-2,348	-2,471	-3,315	-1,965	-1,081	54	-1,530	475	-1,125
Water Year Types[b]												
Wet (31%)	-2,079	-3,143	821	-5,453	-6,249	-6,395	-4,837	-3,311	-1,860	-1,261	-943	-5,316
Above Normal (25%)	-669	-432	-408	-1,794	-7,227	-6,620	-5,217	-1,443	-350	-3,711	-1,476	-2,708
Below Normal (6%)	-2,399	-3,325	-2,241	-309	-3,172	-3,318	-85	-163	-438	855	761	516
Dry (13%)	-888	-1,600	-550	-416	-1,082	-1,837	160	-1,041	245	-940	201	396
Critical (25%)	-412	-90	131	-2,039	1,485	-710	-444	634	1,693	-1,823	2,552	1,316

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-24-24. Sacramento River at Rio Vista, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,264	23,068	70,313	74,530	136,892	92,547	48,275	15,884	8,934	16,021	9,177	18,538
20%	7,620	17,740	15,859	70,165	88,135	66,036	18,787	10,909	8,374	14,602	8,789	15,402
30%	7,007	11,989	14,801	38,835	42,967	43,330	13,732	9,224	7,038	14,148	8,557	10,789
40%	6,634	9,334	12,528	19,363	25,904	27,346	10,716	8,298	6,612	12,452	8,131	5,892
50%	6,456	8,378	11,840	18,753	18,511	24,353	9,762	7,492	6,310	11,447	7,390	4,962
60%	6,209	6,122	9,479	14,868	12,566	19,775	9,509	6,466	6,001	10,281	6,992	4,508
70%	5,854	5,305	8,790	12,530	9,517	13,433	8,679	6,068	5,683	9,661	4,652	3,747
80%	4,844	4,712	6,657	10,435	8,020	10,185	8,249	5,403	5,022	7,671	4,227	3,687
90%	4,050	4,310	4,702	8,940	6,244	7,626	7,239	4,331	4,296	6,343	4,117	3,509
Long Term												
Full Simulation Period[a]	6,661	12,639	26,382	31,715	47,665	43,677	20,930	9,737	7,354	11,281	6,856	8,546
Water Year Types[b]												
Wet (31%)	8,244	26,634	76,445	56,302	118,226	104,545	49,866	17,006	11,537	12,336	8,194	18,346
Above Normal (25%)	4,900	6,486	14,135	73,855	84,726	56,970	20,466	9,603	7,362	14,303	8,596	10,789
Below Normal (6%)	7,620	9,334	9,092	19,186	25,904	21,749	10,716	7,538	8,443	9,509	7,153	5,892
Dry (13%)	6,722	10,392	10,406	12,203	13,972	21,589	10,770	8,706	6,316	12,919	8,060	4,537
Critical (25%)	5,858	6,361	7,469	13,307	7,699	11,722	8,136	5,241	4,617	8,273	4,067	3,547

Alternative 8 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	6,382	23,320	75,174	69,693	125,066	85,846	44,793	15,444	7,669	8,227	6,849	13,091
20%	6,302	16,375	15,602	63,693	80,642	58,833	21,043	11,556	6,928	7,078	6,823	10,538
30%	5,992	9,133	14,555	36,081	42,943	42,335	14,101	10,571	6,885	6,946	6,796	8,086
40%	5,646	5,944	12,757	22,810	21,952	24,585	13,583	8,678	6,803	6,742	6,764	4,954
50%	5,277	5,865	11,098	19,837	19,075	22,623	12,648	7,861	6,730	6,589	6,677	4,853
60%	5,013	5,844	7,926	15,646	16,546	20,681	11,793	7,635	6,545	6,439	6,598	4,739
70%	4,760	5,754	6,998	11,267	12,727	16,363	10,322	7,372	6,496	6,402	6,421	4,664
80%	4,170	5,696	6,795	9,945	8,912	11,980	9,378	6,898	6,406	6,334	6,310	4,606
90%	3,347	5,213	5,620	7,853	7,120	10,590	8,206	5,413	6,402	6,151	5,993	4,547
Long Term												
Full Simulation Period[a]	5,133	11,236	26,288	30,868	46,168	42,347	21,276	10,463	7,516	6,895	6,489	7,172
Water Year Types[b]												
Wet (31%)	5,770	24,099	77,409	52,700	111,685	98,118	46,913	16,755	10,389	8,114	6,848	12,951
Above Normal (25%)	4,542	5,213	13,723	75,430	77,035	50,794	19,074	9,953	6,897	6,891	6,747	8,086
Below Normal (6%)	5,013	5,944	6,795	21,046	28,820	21,253	12,700	11,556	7,529	6,334	6,598	4,871
Dry (13%)	5,029	8,911	9,898	12,777	14,952	24,759	14,197	8,355	6,455	6,571	6,611	4,763
Critical (25%)	4,967	6,273	7,428	12,017	9,850	12,641	9,026	7,100	6,311	6,291	5,980	4,572

Alternative 8 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-2,882	252	4,860	-4,837	-11,826	-6,701	-3,481	-440	-1,266	-7,794	-2,328	-5,447
20%	-1,318	-1,365	-258	-6,472	-7,493	-7,203	2,256	647	-1,446	-7,525	-1,966	-4,864
30%	-1,015	-2,856	-246	-2,754	-24	-994	369	1,347	-153	-7,201	-1,761	-2,703
40%	-988	-3,391	229	3,447	-3,953	-2,762	2,867	380	191	-5,710	-1,367	-938
50%	-1,179	-2,512	-743	1,084	565	-1,730	2,886	369	420	-4,858	-713	-109
60%	-1,196	-278	-1,553	778	3,980	906	2,285	1,169	545	-3,842	-394	231
70%	-1,094	449	-1,792	-1,263	3,210	2,930	1,643	1,304	813	-3,259	1,769	917
80%	-674	984	138	-490	892	1,795	1,129	1,496	1,384	-1,337	2,084	919
90%	-703	903	918	-1,087	876	2,963	966	1,082	2,106	-192	1,876	1,038
Long Term												
Full Simulation Period[a]	-1,528	-1,403	-94	-847	-1,497	-1,330	346	725	162	-4,387	-367	-1,374
Water Year Types[b]												
Wet (31%)	-2,474	-2,535	964	-3,602	-6,540	-6,426	-2,954	-251	-1,147	-4,221	-1,346	-5,395
Above Normal (25%)	-359	-1,273	-413	1,575	-7,692	-6,176	-1,393	350	-466	-7,411	-1,849	-2,703
Below Normal (6%)	-2,607	-3,391	-2,297	1,860	2,915	-495	1,984	4,018	-914	-3,175	-555	-1,021
Dry (13%)	-1,693	-1,481	-508	574	980	3,170	3,427	-351	138	-6,348	-1,449	226
Critical (25%)	-891	-88	-40	-1,290	2,151	919	890	1,859	1,694	-1,982	1,913	1,025

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-24-25. Sacramento River at Rio Vista, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,264	23,068	70,313	74,530	136,892	92,547	48,275	15,884	8,934	16,021	9,177	18,538
20%	7,620	17,740	15,859	70,165	88,135	66,036	18,787	10,909	8,374	14,602	8,789	15,402
30%	7,007	11,989	14,801	38,835	42,967	43,330	13,732	9,224	7,038	14,148	8,557	10,789
40%	6,634	9,334	12,528	19,363	25,904	27,346	10,716	8,298	6,612	12,452	8,131	5,892
50%	6,456	8,378	11,840	18,753	18,511	24,353	9,762	7,492	6,310	11,447	7,390	4,962
60%	6,209	6,122	9,479	14,868	12,566	19,775	9,509	6,466	6,001	10,281	6,992	4,508
70%	5,854	5,305	8,790	12,530	9,517	13,433	8,679	6,068	5,683	9,661	4,652	3,747
80%	4,844	4,712	6,657	10,435	8,020	10,185	8,249	5,403	5,022	7,671	4,227	3,687
90%	4,050	4,310	4,702	8,940	6,244	7,626	7,239	4,331	4,296	6,343	4,117	3,509
Long Term												
Full Simulation Period[a]	6,661	12,639	26,382	31,715	47,665	43,677	20,930	9,737	7,354	11,281	6,856	8,546
Water Year Types[b]												
Wet (31%)	8,244	26,634	76,445	56,302	118,226	104,545	49,866	17,006	11,537	12,336	8,194	18,346
Above Normal (25%)	4,900	6,486	14,135	73,855	84,726	56,970	20,466	9,603	7,362	14,303	8,596	10,789
Below Normal (6%)	7,620	9,334	9,092	19,186	25,904	21,749	10,716	7,538	8,443	9,509	7,153	5,892
Dry (13%)	6,722	10,392	10,406	12,203	13,972	21,589	10,770	8,706	6,316	12,919	8,060	4,537
Critical (25%)	5,858	6,361	7,469	13,307	7,699	11,722	8,136	5,241	4,617	8,273	4,067	3,547

Alternative 9 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	11,289	24,344	75,570	79,014	141,135	94,966	49,723	15,695	10,232	13,492	10,706	21,351
20%	9,935	18,674	14,603	71,991	91,344	68,971	17,349	10,796	9,434	13,388	10,532	15,942
30%	8,507	13,409	13,138	39,799	44,554	44,715	12,868	10,135	8,517	12,458	10,334	12,694
40%	7,597	9,683	12,760	18,673	27,132	27,495	10,811	8,986	8,244	10,712	10,072	7,710
50%	6,772	7,348	11,014	18,108	17,147	24,280	9,596	8,825	8,155	10,454	8,969	6,124
60%	6,275	6,705	9,587	13,552	10,794	18,934	9,274	8,217	8,027	10,161	7,698	5,873
70%	5,695	6,334	8,801	9,669	9,106	12,921	8,935	7,626	7,232	9,594	6,786	5,032
80%	5,602	6,115	7,811	8,565	8,077	9,838	8,462	5,932	6,867	8,047	5,734	4,981
90%	4,909	5,430	7,467	7,954	6,953	8,012	8,123	5,797	6,418	6,664	5,525	4,870
Long Term												
Full Simulation Period[a]	7,527	13,398	27,426	32,158	48,468	44,622	21,313	10,745	8,915	10,703	8,427	10,184
Water Year Types[b]												
Wet (31%)	10,168	27,600	80,209	58,143	120,157	107,192	51,312	17,884	13,005	11,785	9,692	20,564
Above Normal (25%)	4,768	7,439	13,293	79,320	88,056	58,950	20,023	9,806	8,401	13,442	10,317	12,694
Below Normal (6%)	8,325	11,030	9,063	18,544	27,132	21,420	10,811	8,217	9,434	10,250	8,416	7,710
Dry (13%)	7,305	10,019	9,869	11,394	13,095	21,552	11,008	10,080	7,952	11,259	9,305	5,783
Critical (25%)	6,536	7,597	8,570	11,838	7,849	11,932	8,173	6,449	6,516	8,387	5,959	4,892

Alternative 9 (LLT) minus No Action Alternative (LLT)

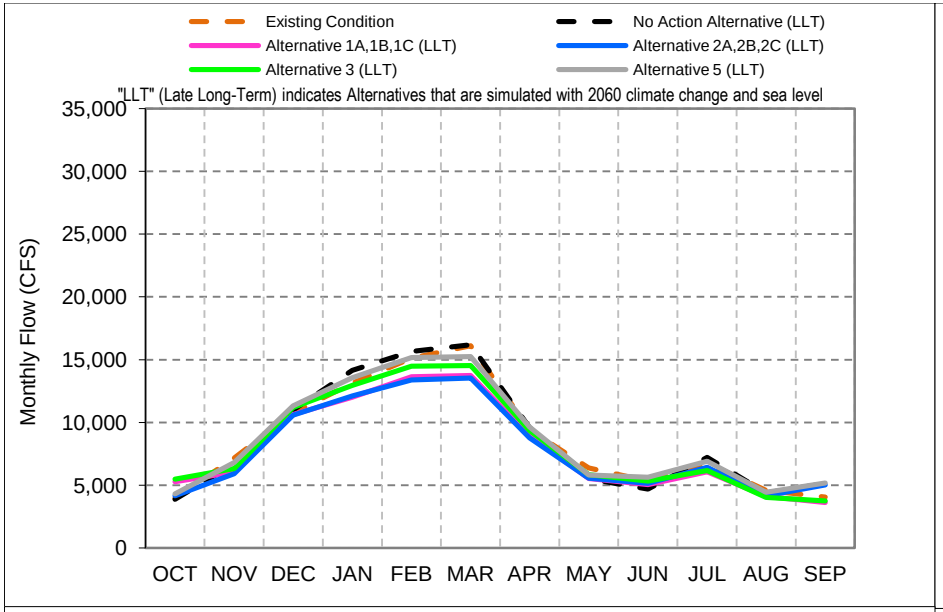
	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,025	1,276	5,257	4,484	4,243	2,419	1,448	**-190**	1,298	**-2,529**	1,529	2,813
20%	2,315	934	**-1,257**	1,826	3,209	2,935	**-1,438**	**-113**	1,060	**-1,214**	1,743	540
30%	1,500	1,420	**-1,663**	964	1,587	1,385	**-863**	911	1,479	**-1,689**	1,777	1,904
40%	963	349	232	**-690**	1,228	149	95	688	1,632	**-1,739**	1,941	1,819
50%	316	**-1,029**	**-827**	**-645**	**-1,364**	**-73**	**-167**	1,333	1,845	**-993**	1,579	1,162
60%	66	583	108	**-1,316**	**-1,772**	**-841**	**-234**	1,751	2,027	**-121**	706	1,365
70%	**-160**	1,029	11	**-2,861**	**-411**	**-512**	256	1,558	1,549	**-67**	2,135	1,285
80%	758	1,403	1,154	**-1,870**	57	**-347**	213	529	1,844	375	1,507	1,294
90%	859	1,120	2,765	**-986**	709	385	883	1,466	2,121	321	1,408	1,361
Long Term												
Full Simulation Period[a]	866	759	1,044	442	803	945	383	1,008	1,561	**-579**	1,571	1,638
Water Year Types[b]												
Wet (31%)	1,925	966	3,764	1,841	1,931	2,647	1,446	877	1,469	**-551**	1,498	2,218
Above Normal (25%)	**-132**	954	**-843**	5,465	3,330	1,980	**-444**	203	1,039	**-861**	1,722	1,904
Below Normal (6%)	706	1,695	**-29**	**-641**	1,228	**-329**	95	679	991	741	1,263	1,819
Dry (13%)	582	**-373**	**-537**	**-809**	**-877**	**-38**	238	1,374	1,635	**-1,661**	1,245	1,246
Critical (25%)	678	1,235	1,101	**-1,469**	150	210	37	1,208	1,899	114	1,892	1,345

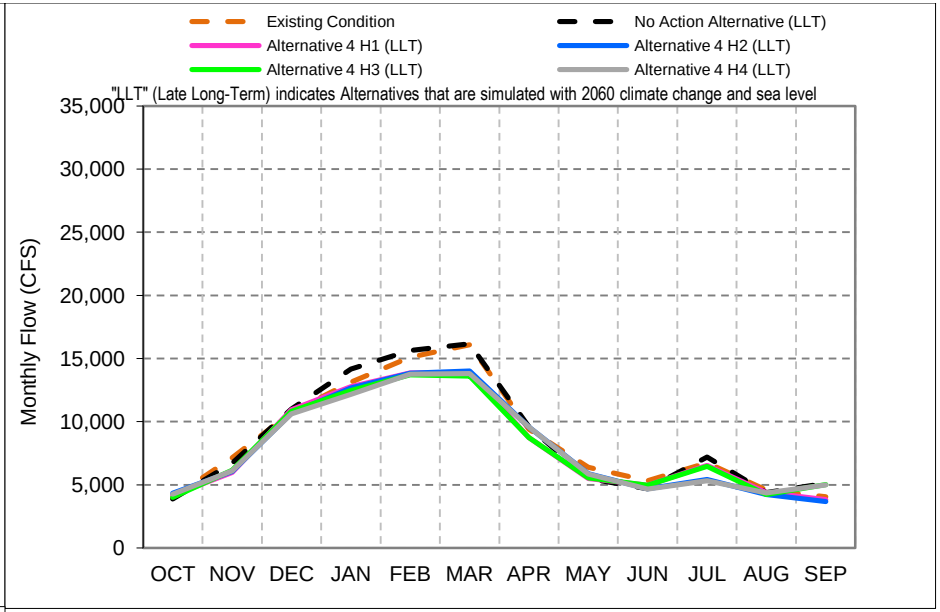
a Based on the 16-year simulation period

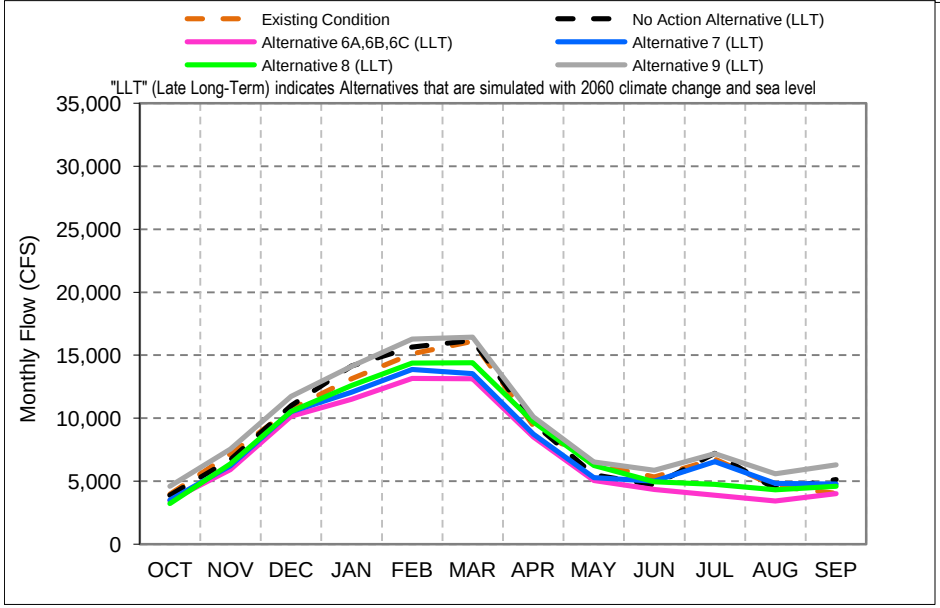
b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

C.25. Sutter and Steamboat Slough Flows



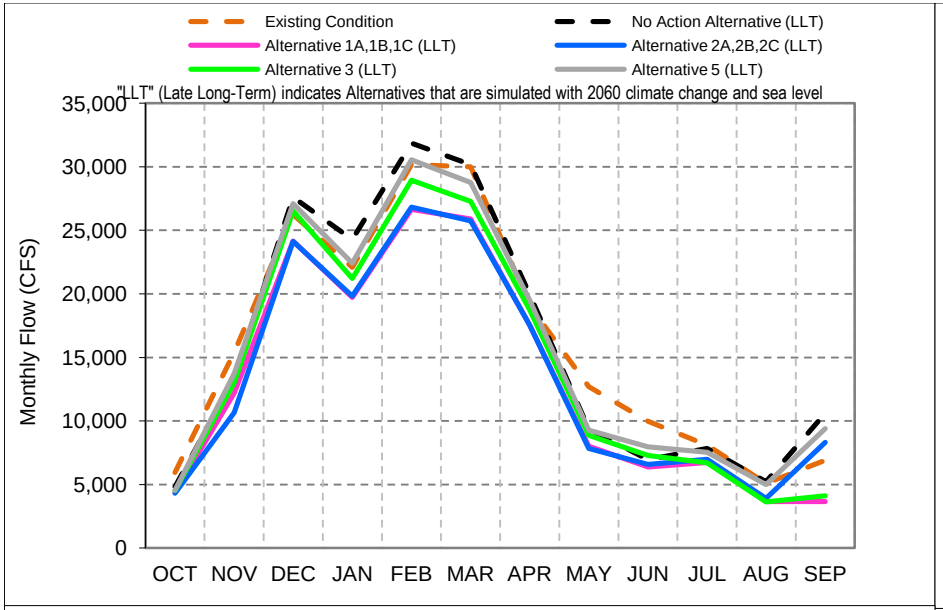


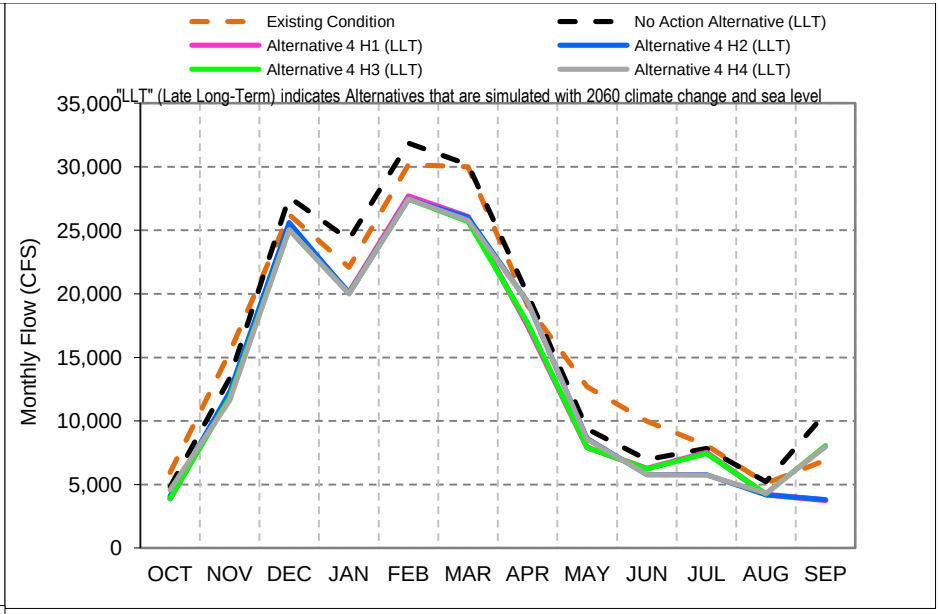


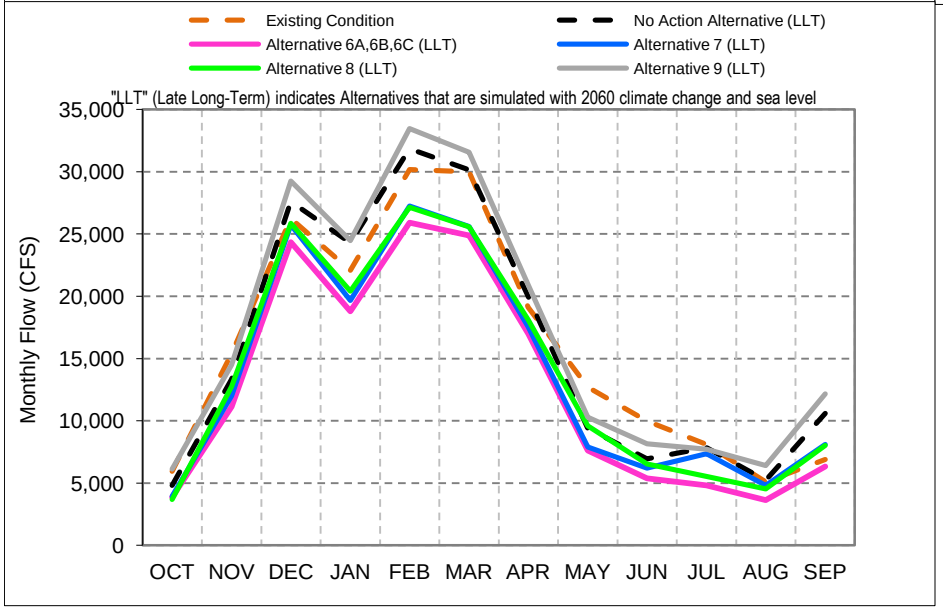
Alternative 4 Scenario Definitions:

H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

Figure C-25-1. Sutter and Steamboat Slough, Long-Term Average Flow





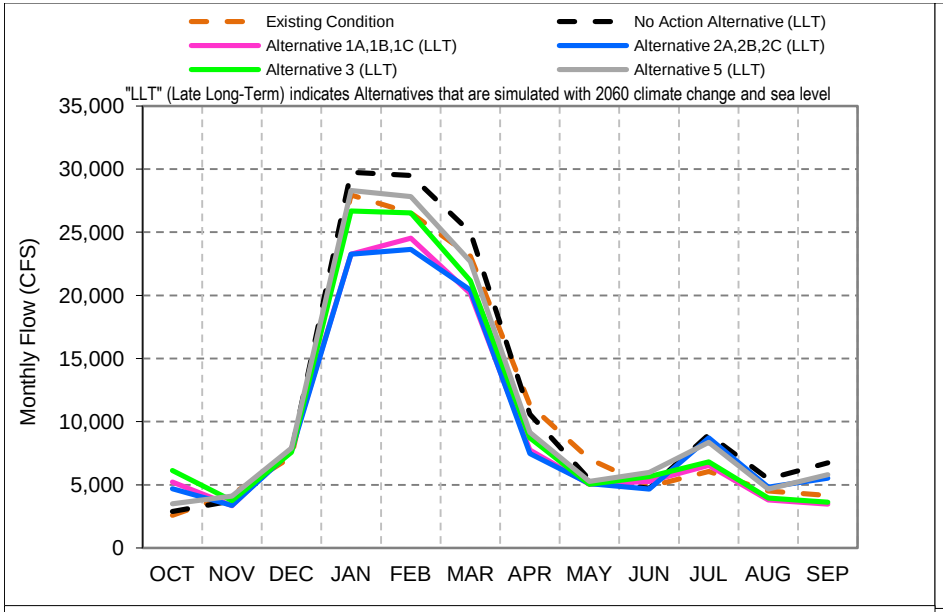


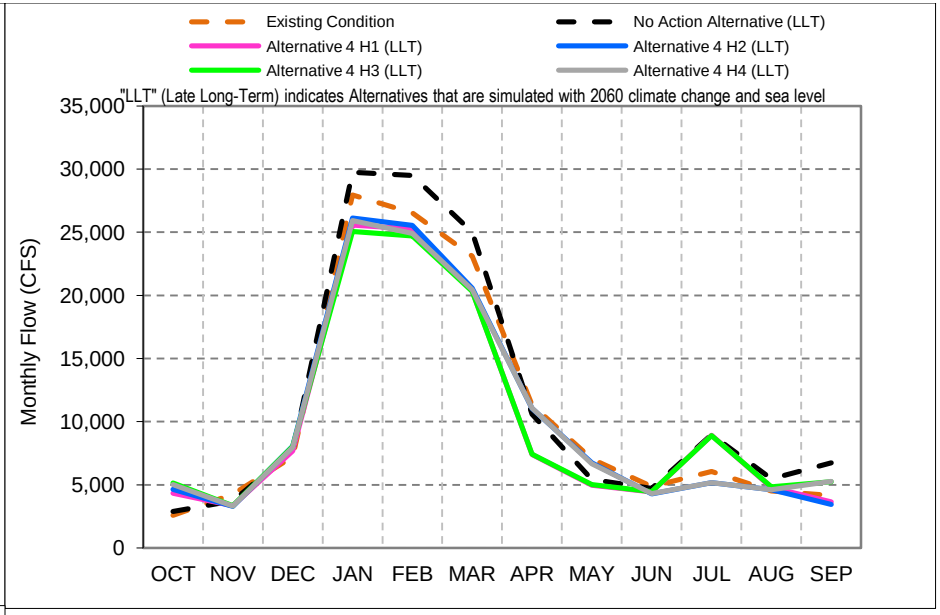
Alternative 4 Scenario Definitions:

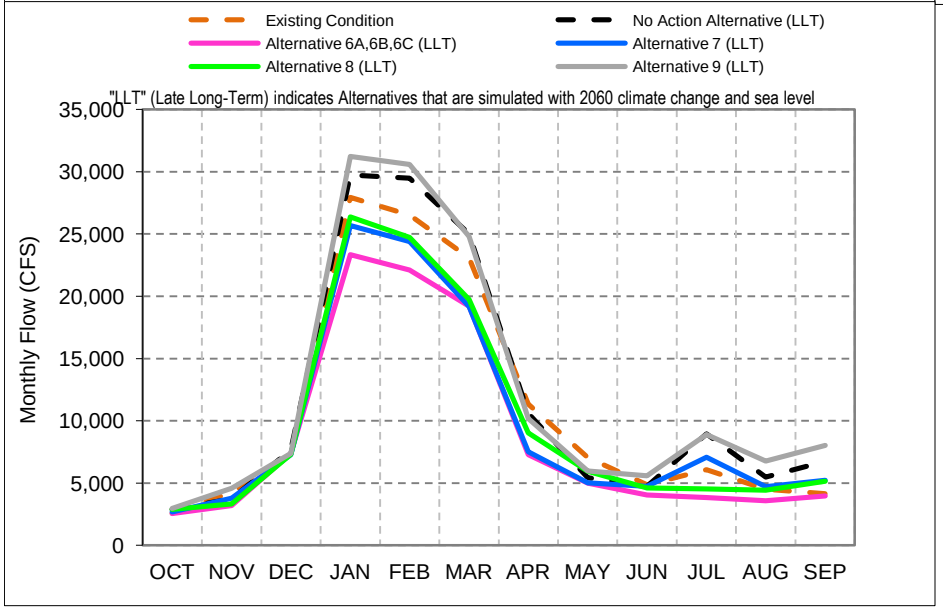
H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-25-2. Sutter and Steamboat Slough, Wet Year* Average Flow





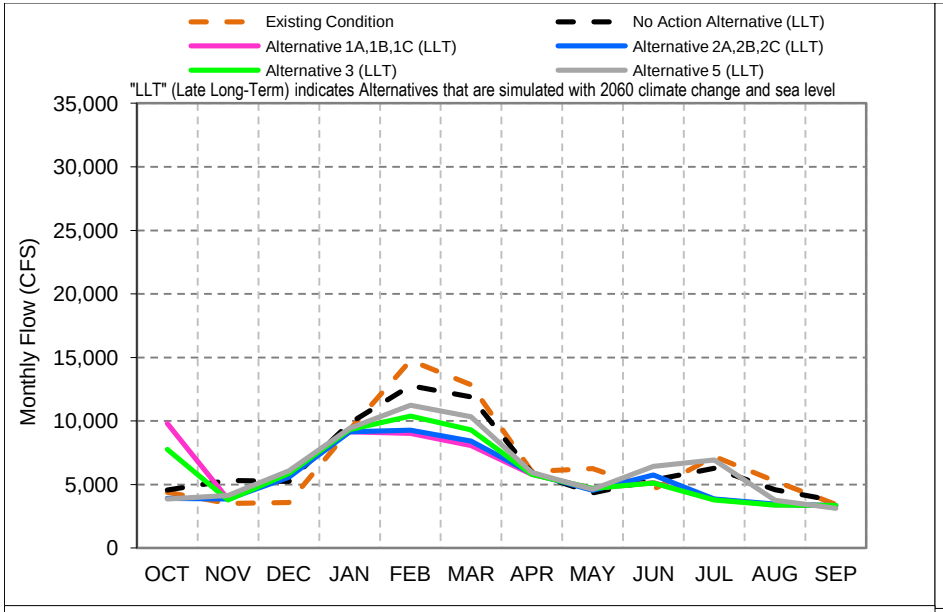


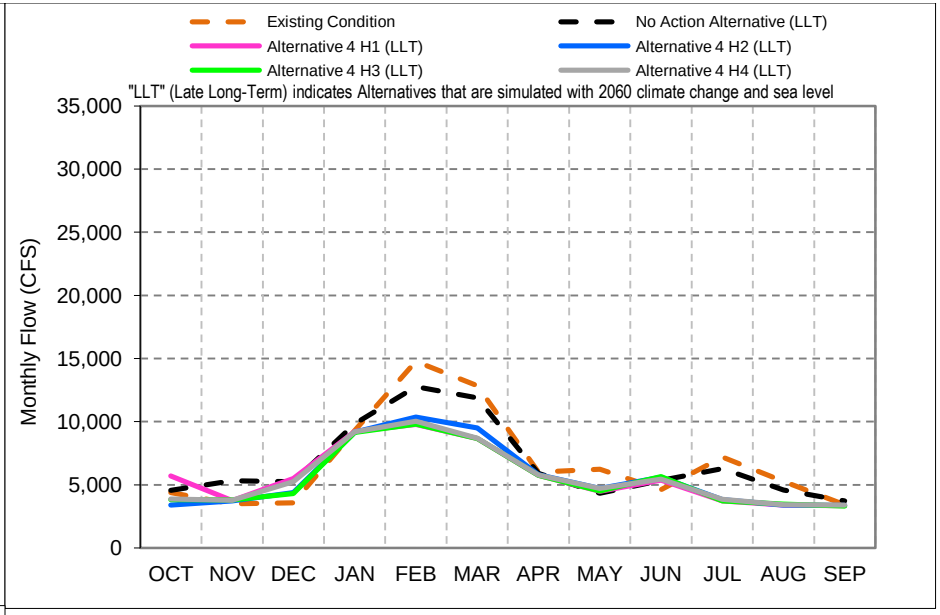
Alternative 4 Scenario Definitions:

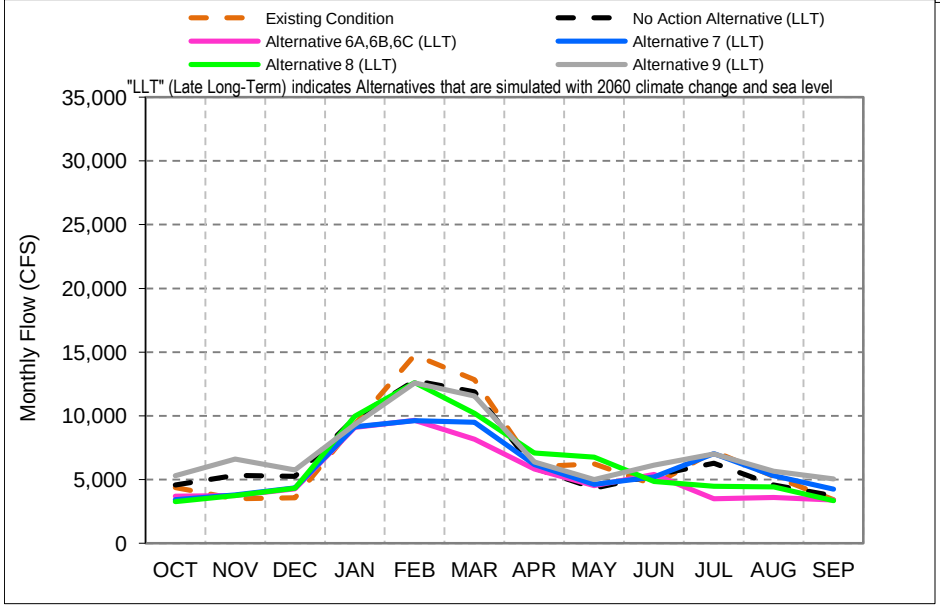
H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-25-3. Sutter and Steamboat Slough, Above Normal Year* Average





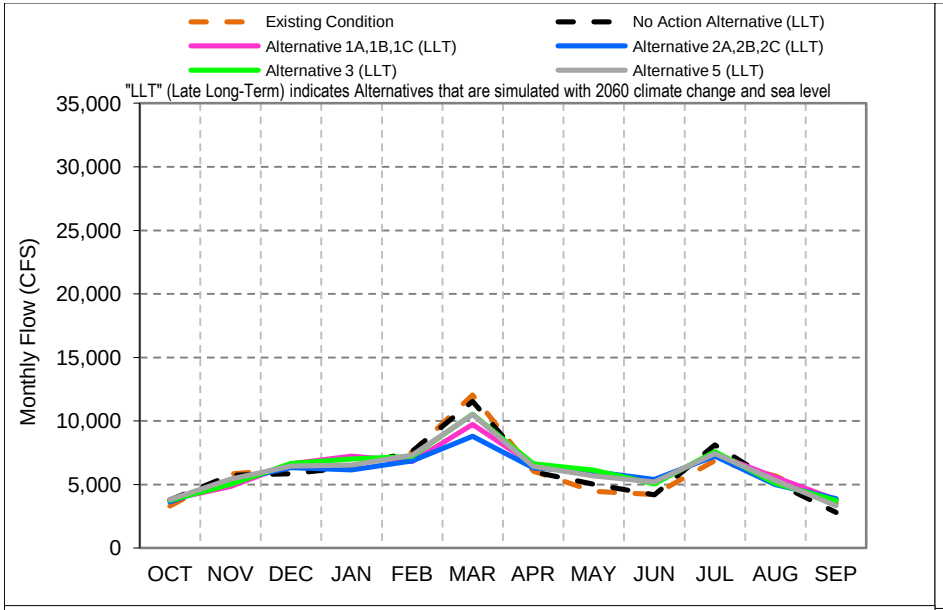


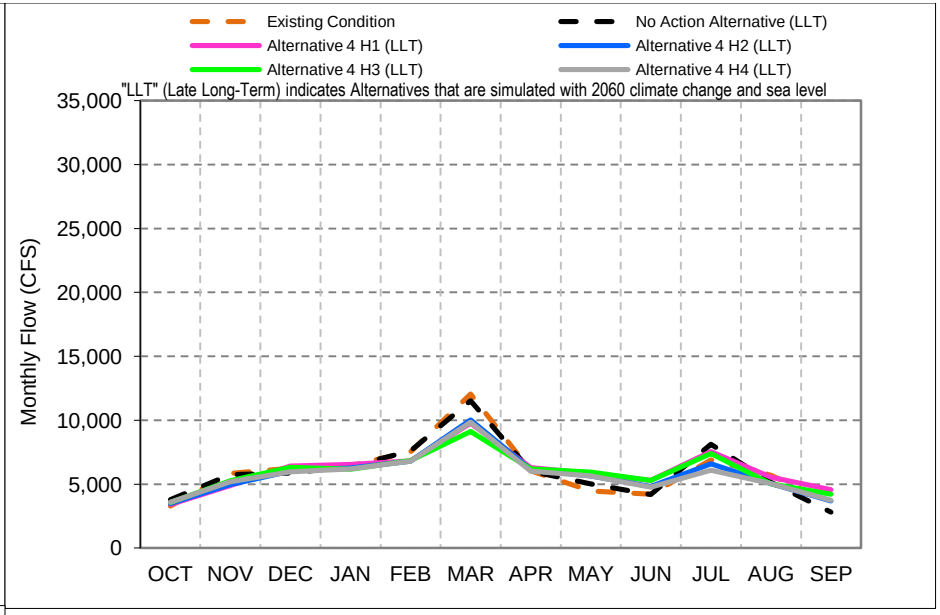
Alternative 4 Scenario Definitions:

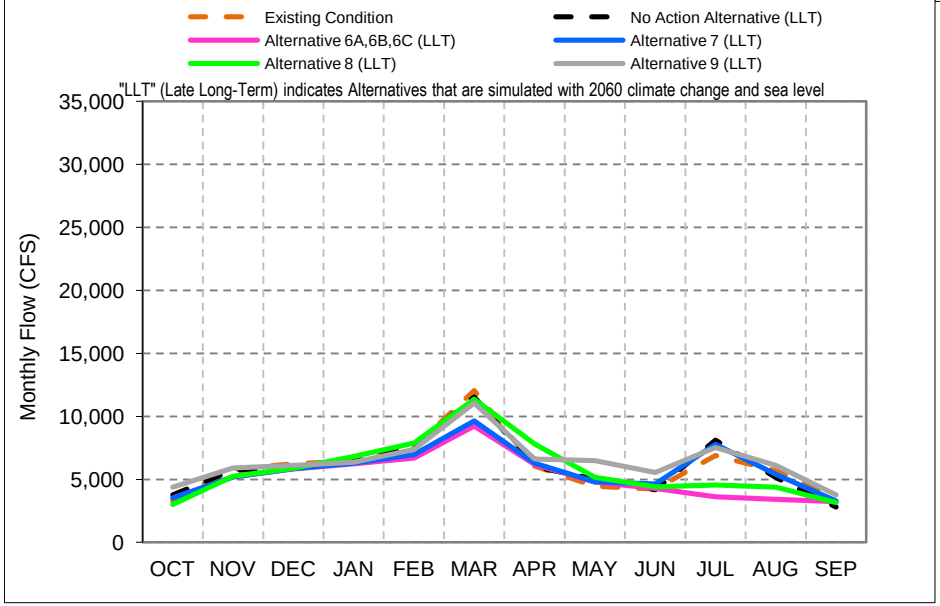
H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-25-4. Sutter and Steamboat Slough, Below Normal Year* Average





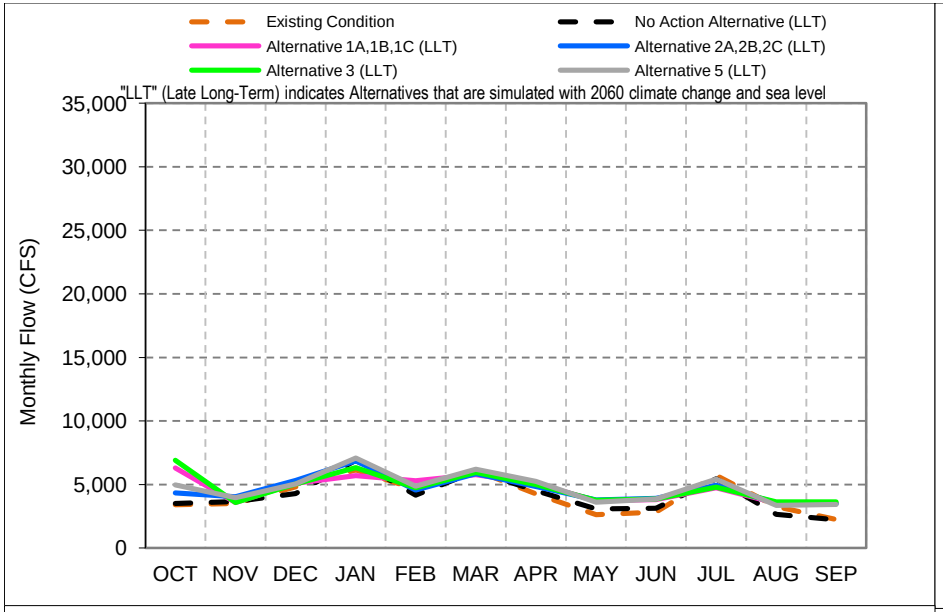


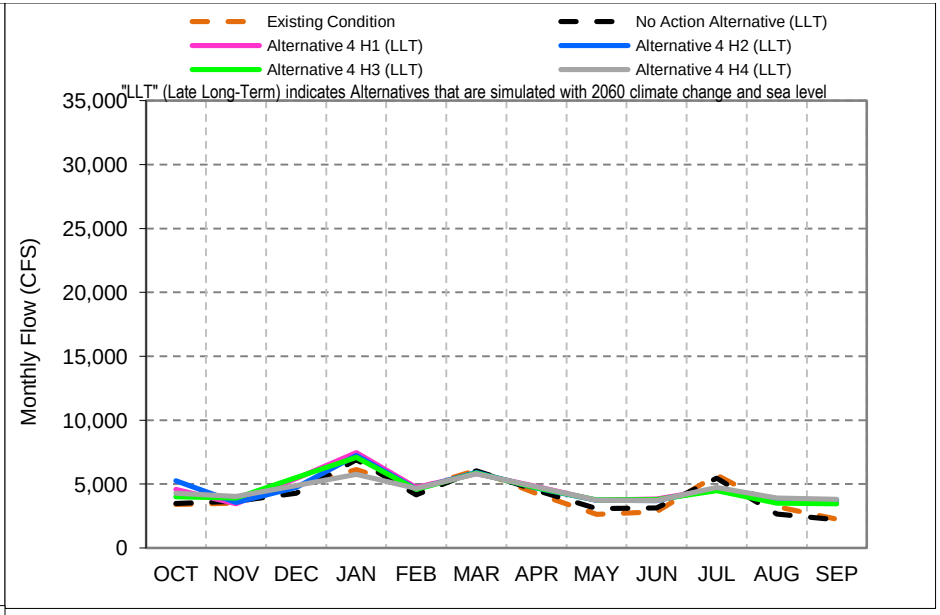
Alternative 4 Scenario Definitions:

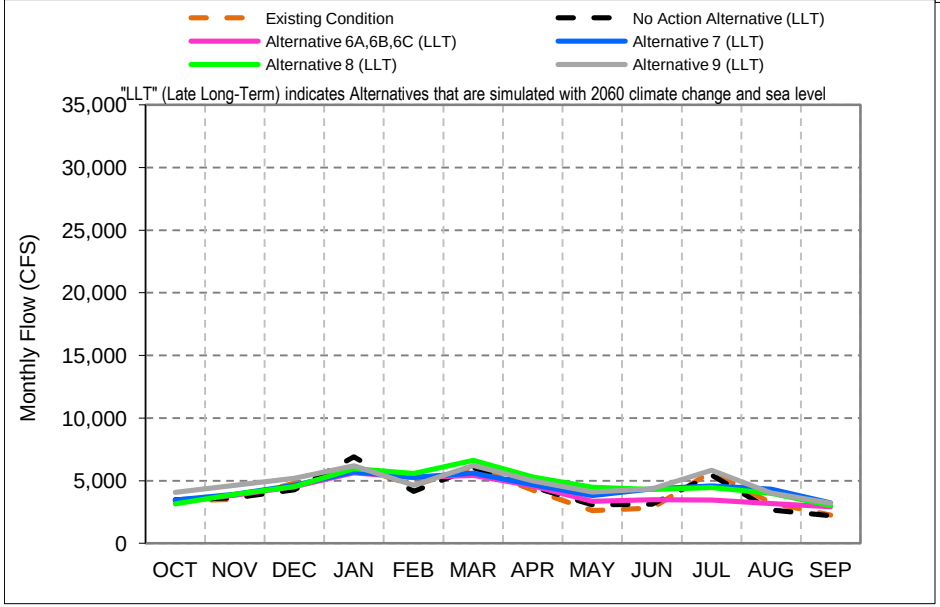
H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-25-5. Sutter and Steamboat Slough, Dry Year* Average Flow







Alternative 4 Scenario Definitions:

H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-25-6. Sutter and Steamboat Slough, Critical Year* Average Flow

Table C-25-1. Sutter and Steamboat Slough, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	7,316	16,211	30,278	27,972	34,467	32,221	21,322	11,503	6,749	7,955	6,214	6,064
20%	4,375	13,021	10,134	22,825	31,987	25,460	9,694	6,247	4,615	7,212	5,672	4,336
30%	3,839	5,857	7,896	17,005	17,872	20,608	7,920	5,725	4,312	7,064	5,295	4,222
40%	3,432	3,968	7,015	9,630	14,771	15,312	6,018	5,282	4,257	6,846	5,217	3,846
50%	3,269	3,727	6,220	9,430	10,305	12,649	5,787	4,568	4,130	6,845	4,500	3,392
60%	3,117	3,499	5,672	7,901	6,226	11,704	5,150	4,207	3,818	6,704	4,127	3,300
70%	2,739	3,378	4,776	5,692	5,554	8,334	4,814	3,512	3,709	6,408	3,895	2,903
80%	2,484	3,151	3,962	5,228	5,422	6,058	4,570	2,944	2,762	5,446	3,648	2,173
90%	2,113	2,517	3,579	4,196	3,345	4,168	3,801	2,449	2,651	4,975	2,892	2,140
Long Term												
Full Simulation Period[a]	3,970	7,156	10,749	13,133	15,109	16,103	9,407	6,382	5,330	6,746	4,600	4,046
Water Year Types[b]												
Wet (31%)	5,950	15,389	26,240	22,079	30,162	29,992	19,094	12,707	9,971	8,097	5,103	6,907
Above Normal (25%)	2,589	4,259	7,233	27,951	26,532	23,098	11,330	7,047	4,864	6,070	4,503	4,154
Below Normal (6%)	4,375	3,496	3,582	9,313	14,771	12,839	6,018	6,247	4,615	7,212	5,264	3,423
Dry (13%)	3,295	5,834	6,231	6,471	7,523	12,038	6,044	4,454	4,221	6,891	5,678	3,525
Critical (25%)	3,398	3,517	4,809	6,142	4,633	6,097	4,255	2,624	2,833	5,725	3,243	2,256

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5,017	12,304	31,638	30,994	35,732	33,080	22,071	8,900	5,667	9,754	5,817	10,800
20%	4,568	9,343	8,517	26,981	34,045	28,088	10,393	6,159	5,342	9,255	5,617	9,020
30%	4,177	6,726	8,106	18,353	20,476	21,847	7,564	5,323	4,601	8,835	5,438	6,743
40%	3,957	5,327	6,829	10,107	12,770	15,009	5,911	4,709	4,345	8,156	5,192	3,717
50%	3,827	4,794	6,601	9,489	10,091	12,418	5,379	4,339	4,146	7,523	4,679	3,036
60%	3,743	3,471	5,569	7,997	6,879	10,291	5,288	3,746	3,899	6,680	4,525	2,759
70%	3,524	3,136	5,111	6,764	5,090	7,295	4,839	3,592	3,770	6,407	3,075	2,399
80%	2,889	2,735	3,749	5,617	4,376	5,387	4,637	3,200	3,371	5,083	2,731	2,301
90%	2,443	2,535	2,789	4,841	3,371	4,186	4,025	2,530	2,902	4,220	2,672	2,194
Long Term												
Full Simulation Period[a]	3,890	6,712	10,990	14,157	15,647	16,179	9,595	5,510	4,687	7,207	4,393	5,121
Water Year Types[b]												
Wet (31%)	4,827	13,357	27,600	24,283	31,855	30,161	19,964	9,382	6,960	7,839	5,229	10,606
Above Normal (25%)	2,888	3,730	7,666	29,745	29,486	25,004	10,587	5,434	4,727	8,962	5,474	6,743
Below Normal (6%)	4,568	5,327	5,252	9,838	12,770	11,892	5,911	4,326	5,342	6,283	4,589	3,717
Dry (13%)	3,778	5,728	5,855	6,382	7,603	11,533	6,008	5,016	4,180	8,118	5,133	2,801
Critical (25%)	3,497	3,651	4,287	6,905	4,154	6,037	4,511	3,076	3,127	5,455	2,661	2,219

No Action Alternative (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-2,299	-3,907	1,361	3,023	1,266	859	748	-2,603	-1,082	1,799	-398	4,736
20%	193	-3,679	-1,617	4,156	2,058	2,628	699	-88	727	2,043	-55	4,685
30%	337	869	209	1,348	2,603	1,240	-356	-403	289	1,770	144	2,521
40%	525	1,359	-186	477	-2,001	-303	-107	-573	88	1,310	-25	-129
50%	558	1,067	381	59	-214	-231	-407	-230	17	678	179	-356
60%	626	-28	-103	96	653	-1,412	137	-461	81	-24	399	-542
70%	785	-241	335	1,072	-464	-1,039	25	80	61	-1	-819	-504
80%	405	-415	-213	389	-1,046	-671	67	256	609	-363	-917	128
90%	330	18	-790	645	27	18	224	81	251	-756	-220	54
Long Term												
Full Simulation Period[a]	-80	-444	242	1,025	538	76	189	-872	-642	461	-207	1,074
Water Year Types[b]												
Wet (31%)	-1,124	-2,032	1,360	2,205	1,693	169	870	-3,325	-3,011	-259	126	3,699
Above Normal (25%)	299	-529	433	1,794	2,954	1,906	-743	-1,613	-138	2,893	971	2,590
Below Normal (6%)	193	1,831	1,669	524	-2,001	-946	-107	-1,922	727	-929	-675	294
Dry (13%)	483	-106	-375	-88	80	-506	-36	561	-40	1,227	-545	-723
Critical (25%)	99	135	-522	763	-479	-61	255	452	295	-271	-581	-37

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-25-2. Sutter and Steamboat Slough, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	7,316	16,211	30,278	27,972	34,467	32,221	21,322	11,503	6,749	7,955	6,214	6,064
20%	4,375	13,021	10,134	22,825	31,987	25,460	9,694	6,247	4,615	7,212	5,672	4,336
30%	3,839	5,857	7,896	17,005	17,872	20,608	7,920	5,725	4,312	7,064	5,295	4,222
40%	3,432	3,968	7,015	9,630	14,771	15,312	6,018	5,282	4,257	6,846	5,217	3,846
50%	3,269	3,727	6,220	9,430	10,305	12,649	5,787	4,568	4,130	6,845	4,500	3,392
60%	3,117	3,499	5,672	7,901	6,226	11,704	5,150	4,207	3,818	6,704	4,127	3,300
70%	2,739	3,378	4,776	5,692	5,554	8,334	4,814	3,512	3,709	6,408	3,895	2,903
80%	2,484	3,151	3,962	5,228	5,422	6,058	4,570	2,944	2,762	5,446	3,648	2,173
90%	2,113	2,517	3,579	4,196	3,345	4,168	3,801	2,449	2,651	4,975	2,892	2,140
Long Term												
Full Simulation Period[a]	3,970	7,156	10,749	13,133	15,109	16,103	9,407	6,382	5,330	6,746	4,600	4,046
Water Year Types[b]												
Wet (31%)	5,950	15,389	26,240	22,079	30,162	29,992	19,094	12,707	9,971	8,097	5,103	6,907
Above Normal (25%)	2,589	4,259	7,233	27,951	26,532	23,098	11,330	7,047	4,864	6,070	4,503	4,154
Below Normal (6%)	4,375	3,496	3,582	9,313	14,771	12,839	6,018	6,247	4,615	7,212	5,264	3,423
Dry (13%)	3,295	5,834	6,231	6,471	7,523	12,038	6,044	4,454	4,221	6,891	5,678	3,525
Critical (25%)	3,398	3,517	4,809	6,142	4,633	6,097	4,255	2,624	2,833	5,725	3,243	2,256

Alternative 1A,1B,1C (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,054	9,059	26,414	25,130	31,021	28,641	17,424	7,088	6,275	8,374	4,961	4,362
20%	7,509	8,913	8,862	19,850	28,136	22,566	8,672	6,056	6,135	7,885	4,478	4,095
30%	5,685	6,212	7,990	15,033	13,822	17,287	6,906	5,610	5,490	7,069	4,056	3,695
40%	5,134	3,845	7,595	9,153	9,019	9,642	6,392	5,368	5,230	5,619	3,904	3,542
50%	3,951	3,721	6,953	8,387	8,346	8,544	5,802	4,803	4,889	5,511	3,625	3,408
60%	3,738	3,693	6,363	7,723	6,671	8,052	5,770	4,679	4,628	5,138	3,523	3,385
70%	3,577	3,628	6,079	6,448	5,877	6,951	5,511	4,597	4,350	4,760	3,451	3,308
80%	3,130	3,610	4,732	5,739	5,242	6,055	5,216	3,930	3,805	4,068	3,376	3,167
90%	2,981	3,269	3,888	4,593	4,716	4,721	4,980	3,058	3,625	3,897	3,307	3,108
Long Term												
Full Simulation Period[a]	5,281	6,032	10,636	11,996	13,644	13,732	8,939	5,535	5,062	6,078	4,101	3,611
Water Year Types[b]												
Wet (31%)	4,363	12,187	24,156	19,728	26,642	25,889	17,545	8,002	6,377	6,739	3,665	3,668
Above Normal (25%)	5,233	3,346	7,845	23,266	24,534	20,142	7,762	5,038	5,265	6,545	3,817	3,477
Below Normal (6%)	9,803	3,845	5,906	9,153	9,019	8,052	5,800	4,679	5,135	3,831	3,398	3,343
Dry (13%)	3,814	4,829	6,624	7,221	6,804	9,736	6,542	5,776	5,210	7,409	5,571	3,804
Critical (25%)	6,304	3,583	5,092	5,690	5,286	5,774	5,071	3,740	3,797	4,747	3,526	3,518

Alternative 1A,1B,1C (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,737	**-7,152**	**-3,864**	**-2,842**	**-3,446**	**-3,580**	**-3,898**	**-4,415**	**-474**	419	**-1,254**	**-1,702**
20%	3,134	**-4,108**	**-1,272**	**-2,975**	**-3,850**	**-2,894**	**-1,022**	**-191**	1,520	673	**-1,194**	**-241**
30%	1,845	355	94	**-1,971**	**-4,050**	**-3,321**	**-1,015**	**-115**	1,178	4	**-1,238**	**-527**
40%	1,702	**-123**	580	**-476**	**-5,752**	**-5,670**	374	86	974	**-1,226**	**-1,314**	**-304**
50%	681	**-5**	733	**-1,043**	**-1,959**	**-4,105**	15	235	759	**-1,334**	**-875**	17
60%	621	194	691	**-178**	445	**-3,652**	619	471	810	**-1,567**	**-604**	85
70%	838	250	1,303	756	323	**-1,384**	697	1,084	642	**-1,647**	**-443**	405
80%	646	459	770	511	**-180**	**-3**	646	986	1,042	**-1,378**	**-272**	994
90%	868	752	310	396	1,372	553	1,178	609	975	**-1,078**	415	969
Long Term												
Full Simulation Period[a]	1,311	**-1,123**	**-113**	**-1,137**	**-1,465**	**-2,371**	**-467**	**-846**	**-268**	**-668**	**-500**	**-435**
Water Year Types[b]												
Wet (31%)	**-1,588**	**-3,202**	**-2,084**	**-2,351**	**-3,521**	**-4,103**	**-1,549**	**-4,706**	**-3,595**	**-1,359**	**-1,438**	**-3,239**
Above Normal (25%)	2,644	**-913**	612	**-4,686**	**-1,999**	**-2,956**	**-3,569**	**-2,009**	401	475	**-686**	**-676**
Below Normal (6%)	5,428	349	2,324	**-160**	**-5,752**	**-4,786**	**-218**	**-1,569**	520	**-3,380**	**-1,867**	**-80**
Dry (13%)	519	**-1,005**	393	750	**-719**	**-2,302**	498	1,322	989	518	**-107**	279
Critical (25%)	2,907	67	283	**-452**	653	**-323**	816	1,116	964	**-978**	284	1,261

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-25-3. Sutter and Steamboat Slough, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	7,316	16,211	30,278	27,972	34,467	32,221	21,322	11,503	6,749	7,955	6,214	6,064
20%	4,375	13,021	10,134	22,825	31,987	25,460	9,694	6,247	4,615	7,212	5,672	4,336
30%	3,839	5,857	7,896	17,005	17,872	20,608	7,920	5,725	4,312	7,064	5,295	4,222
40%	3,432	3,968	7,015	9,630	14,771	15,312	6,018	5,282	4,257	6,846	5,217	3,846
50%	3,269	3,727	6,220	9,430	10,305	12,649	5,787	4,568	4,130	6,845	4,500	3,392
60%	3,117	3,499	5,672	7,901	6,226	11,704	5,150	4,207	3,818	6,704	4,127	3,300
70%	2,739	3,378	4,776	5,692	5,554	8,334	4,814	3,512	3,709	6,408	3,895	2,903
80%	2,484	3,151	3,962	5,228	5,422	6,058	4,570	2,944	2,762	5,446	3,648	2,173
90%	2,113	2,517	3,579	4,196	3,345	4,168	3,801	2,449	2,651	4,975	2,892	2,140
Long Term												
Full Simulation Period[a]	3,970	7,156	10,749	13,133	15,109	16,103	9,407	6,382	5,330	6,746	4,600	4,046
Water Year Types[b]												
Wet (31%)	5,950	15,389	26,240	22,079	30,162	29,992	19,094	12,707	9,971	8,097	5,103	6,907
Above Normal (25%)	2,589	4,259	7,233	27,951	26,532	23,098	11,330	7,047	4,864	6,070	4,503	4,154
Below Normal (6%)	4,375	3,496	3,582	9,313	14,771	12,839	6,018	6,247	4,615	7,212	5,264	3,423
Dry (13%)	3,295	5,834	6,231	6,471	7,523	12,038	6,044	4,454	4,221	6,891	5,678	3,525
Critical (25%)	3,398	3,517	4,809	6,142	4,633	6,097	4,255	2,624	2,833	5,725	3,243	2,256

Alternative 2A,2B,2C (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5,363	9,006	26,155	25,335	30,501	28,591	17,915	7,437	6,377	8,960	5,463	8,390
20%	5,042	8,930	8,217	20,530	28,723	22,981	9,001	6,341	6,123	7,593	4,791	7,268
30%	4,487	5,481	7,988	14,674	13,966	16,088	6,174	5,644	5,628	7,435	4,287	5,520
40%	4,130	3,880	7,181	8,959	9,267	9,887	5,864	5,301	5,303	7,258	4,153	5,138
50%	4,119	3,791	6,735	8,024	8,454	8,846	5,599	5,022	4,954	6,424	3,715	4,320
60%	3,906	3,690	6,019	7,533	6,618	8,353	5,248	4,533	4,565	5,700	3,656	3,438
70%	3,832	3,684	5,738	6,761	5,521	6,472	5,101	4,050	4,247	4,701	3,598	3,320
80%	3,423	3,651	5,566	5,779	5,071	5,626	5,006	3,842	3,824	4,228	3,467	3,151
90%	2,618	3,331	4,408	5,157	3,703	4,851	4,792	3,065	3,745	3,945	3,319	3,113
Long Term												
Full Simulation Period[a]	4,170	5,920	10,579	12,114	13,383	13,537	8,777	5,564	5,154	6,431	4,161	5,034
Water Year Types[b]												
Wet (31%)	4,309	10,669	24,124	19,820	26,835	25,731	17,562	7,838	6,578	6,973	3,918	8,311
Above Normal (25%)	4,690	3,378	7,682	23,259	23,629	20,434	7,478	5,104	4,671	8,716	4,826	5,520
Below Normal (6%)	3,906	3,848	5,566	9,144	9,267	8,420	5,864	4,533	5,741	3,862	3,467	3,327
Dry (13%)	3,629	5,323	6,315	6,149	6,856	8,783	6,298	6,005	5,396	7,241	5,000	3,894
Critical (25%)	4,336	4,030	5,316	6,858	4,568	5,850	4,834	3,784	3,896	4,948	3,557	3,471

Alternative 2A,2B,2C (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-1,953**	**-7,205**	**-4,123**	**-2,636**	**-3,966**	**-3,630**	**-3,407**	**-4,066**	**-372**	1,005	**-752**	2,326
20%	667	**-4,091**	**-1,917**	**-2,295**	**-3,264**	**-2,479**	**-693**	94	1,508	381	**-881**	2,932
30%	647	**-376**	92	**-2,331**	**-3,906**	**-4,519**	**-1,746**	**-82**	1,316	371	**-1,007**	1,298
40%	698	**-88**	166	**-670**	**-5,504**	**-5,425**	**-155**	19	1,047	412	**-1,064**	1,292
50%	850	64	516	**-1,406**	**-1,851**	**-3,803**	**-188**	454	824	**-422**	**-785**	929
60%	789	191	346	**-368**	391	**-3,351**	98	325	747	**-1,004**	**-470**	138
70%	1,093	306	963	1,069	**-33**	**-1,862**	287	538	538	**-1,707**	**-297**	417
80%	939	501	1,604	551	**-351**	**-432**	436	898	1,062	**-1,218**	**-182**	978
90%	505	814	829	961	358	683	991	616	1,094	**-1,030**	427	973
Long Term												
Full Simulation Period[a]	200	**-1,236**	**-170**	**-1,018**	**-1,726**	**-2,566**	**-630**	**-817**	**-176**	**-315**	**-439**	988
Water Year Types[b]												
Wet (31%)	**-1,642**	**-4,720**	**-2,116**	**-2,258**	**-3,327**	**-4,261**	**-1,531**	**-4,870**	**-3,393**	**-1,125**	**-1,185**	1,404
Above Normal (25%)	2,101	**-881**	448	**-4,692**	**-2,904**	**-2,664**	**-3,852**	**-1,944**	**-194**	2,646	323	1,367
Below Normal (6%)	**-469**	351	1,983	**-170**	**-5,504**	**-4,418**	**-155**	**-1,715**	1,126	**-3,350**	**-1,798**	**-97**
Dry (13%)	334	**-511**	84	**-321**	**-667**	**-3,256**	253	1,550	1,175	350	**-678**	369
Critical (25%)	938	514	507	716	**-65**	**-247**	579	1,160	1,063	**-777**	314	1,214

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-25-4. Sutter and Steamboat Slough, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	7,316	16,211	30,278	27,972	34,467	32,221	21,322	11,503	6,749	7,955	6,214	6,064
20%	4,375	13,021	10,134	22,825	31,987	25,460	9,694	6,247	4,615	7,212	5,672	4,336
30%	3,839	5,857	7,896	17,005	17,872	20,608	7,920	5,725	4,312	7,064	5,295	4,222
40%	3,432	3,968	7,015	9,630	14,771	15,312	6,018	5,282	4,257	6,846	5,217	3,846
50%	3,269	3,727	6,220	9,430	10,305	12,649	5,787	4,568	4,130	6,845	4,500	3,392
60%	3,117	3,499	5,672	7,901	6,226	11,704	5,150	4,207	3,818	6,704	4,127	3,300
70%	2,739	3,378	4,776	5,692	5,554	8,334	4,814	3,512	3,709	6,408	3,895	2,903
80%	2,484	3,151	3,962	5,228	5,422	6,058	4,570	2,944	2,762	5,446	3,648	2,173
90%	2,113	2,517	3,579	4,196	3,345	4,168	3,801	2,449	2,651	4,975	2,892	2,140
Long Term												
Full Simulation Period[a]	3,970	7,156	10,749	13,133	15,109	16,103	9,407	6,382	5,330	6,746	4,600	4,046
Water Year Types[b]												
Wet (31%)	5,950	15,389	26,240	22,079	30,162	29,992	19,094	12,707	9,971	8,097	5,103	6,907
Above Normal (25%)	2,589	4,259	7,233	27,951	26,532	23,098	11,330	7,047	4,864	6,070	4,503	4,154
Below Normal (6%)	4,375	3,496	3,582	9,313	14,771	12,839	6,018	6,247	4,615	7,212	5,264	3,423
Dry (13%)	3,295	5,834	6,231	6,471	7,523	12,038	6,044	4,454	4,221	6,891	5,678	3,525
Critical (25%)	3,398	3,517	4,809	6,142	4,633	6,097	4,255	2,624	2,833	5,725	3,243	2,256

Alternative 3 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,068	11,790	30,215	27,480	33,280	30,619	19,041	8,804	7,594	8,706	5,146	4,413
20%	7,767	8,849	9,016	24,023	31,088	24,612	9,351	6,141	6,135	8,195	4,430	4,288
30%	6,202	4,327	8,196	15,634	16,680	18,352	7,094	5,605	5,236	6,958	4,271	3,977
40%	5,173	3,890	7,023	9,311	10,384	10,537	6,224	5,300	5,124	6,265	3,812	3,799
50%	4,432	3,781	6,961	8,867	8,732	9,883	5,758	4,826	4,858	5,331	3,616	3,456
60%	3,865	3,719	6,358	7,557	6,767	8,520	5,660	4,701	4,600	4,904	3,509	3,382
70%	3,753	3,702	6,005	5,994	5,850	7,302	5,430	4,636	4,242	4,810	3,453	3,307
80%	3,131	3,655	4,483	5,868	5,079	6,159	5,214	3,928	4,057	4,531	3,382	3,232
90%	2,975	3,562	3,934	5,421	4,147	4,728	4,964	3,064	3,611	3,876	3,295	3,129
Long Term												
Full Simulation Period[a]	5,476	6,334	11,193	12,945	14,480	14,533	9,363	5,850	5,319	6,162	4,022	3,754
Water Year Types[b]												
Wet (31%)	4,503	13,030	26,529	21,211	28,946	27,268	18,757	8,876	7,293	6,715	3,629	4,107
Above Normal (25%)	6,137	3,742	7,587	26,687	26,527	21,164	8,732	5,044	5,661	6,830	3,946	3,620
Below Normal (6%)	7,767	3,773	5,868	9,311	10,384	9,293	5,787	4,701	5,124	3,776	3,372	3,342
Dry (13%)	3,757	5,010	6,666	6,996	7,202	10,528	6,640	6,126	5,045	7,581	5,098	3,722
Critical (25%)	6,907	3,585	5,052	6,320	4,729	5,946	4,995	3,760	3,863	4,795	3,635	3,635

Alternative 3 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,752	-4,421	-63	-491	-1,187	-1,603	-2,281	-2,700	845	751	-1,068	-1,651
20%	3,393	-4,172	-1,118	1,198	-899	-848	-343	-107	1,520	983	-1,242	-48
30%	2,362	-1,531	299	-1,371	-1,193	-2,256	-826	-120	924	-107	-1,023	-246
40%	1,741	-78	8	-319	-4,386	-4,776	206	18	867	-581	-1,406	-47
50%	1,163	54	741	-563	-1,573	-2,766	-28	258	728	-1,514	-884	64
60%	748	220	686	-344	541	-3,183	510	493	782	-1,800	-618	82
70%	1,014	324	1,230	302	295	-1,032	616	1,124	533	-1,598	-441	404
80%	647	505	521	641	-343	101	645	984	1,294	-915	-266	1,059
90%	862	1,046	355	1,225	802	560	1,162	615	960	-1,099	403	989
Long Term												
Full Simulation Period[a]	1,506	-822	444	-188	-629	-1,569	-44	-532	-10	-584	-579	-292
Water Year Types[b]												
Wet (31%)	-1,448	-2,359	289	-868	-1,216	-2,724	-337	-3,831	-2,679	-1,382	-1,473	-2,800
Above Normal (25%)	3,548	-517	354	-1,265	-5	-1,934	-2,599	-2,003	796	760	-557	-534
Below Normal (6%)	3,393	277	2,286	-2	-4,386	-3,545	-231	-1,547	509	-3,436	-1,893	-81
Dry (13%)	462	-824	436	526	-321	-1,511	596	1,671	824	690	-581	197
Critical (25%)	3,509	68	243	178	96	-152	739	1,136	1,031	-931	392	1,378

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-25-5. Sutter and Steamboat Slough, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	7,316	16,211	30,278	27,972	34,467	32,221	21,322	11,503	6,749	7,955	6,214	6,064
20%	4,375	13,021	10,134	22,825	31,987	25,460	9,694	6,247	4,615	7,212	5,672	4,336
30%	3,839	5,857	7,896	17,005	17,872	20,608	7,920	5,725	4,312	7,064	5,295	4,222
40%	3,432	3,968	7,015	9,630	14,771	15,312	6,018	5,282	4,257	6,846	5,217	3,846
50%	3,269	3,727	6,220	9,430	10,305	12,649	5,787	4,568	4,130	6,845	4,500	3,392
60%	3,117	3,499	5,672	7,901	6,226	11,704	5,150	4,207	3,818	6,704	4,127	3,300
70%	2,739	3,378	4,776	5,692	5,554	8,334	4,814	3,512	3,709	6,408	3,895	2,903
80%	2,484	3,151	3,962	5,228	5,422	6,058	4,570	2,944	2,762	5,446	3,648	2,173
90%	2,113	2,517	3,579	4,196	3,345	4,168	3,801	2,449	2,651	4,975	2,892	2,140
Long Term												
Full Simulation Period[a]	3,970	7,156	10,749	13,133	15,109	16,103	9,407	6,382	5,330	6,746	4,600	4,046
Water Year Types[b]												
Wet (31%)	5,950	15,389	26,240	22,079	30,162	29,992	19,094	12,707	9,971	8,097	5,103	6,907
Above Normal (25%)	2,589	4,259	7,233	27,951	26,532	23,098	11,330	7,047	4,864	6,070	4,503	4,154
Below Normal (6%)	4,375	3,496	3,582	9,313	14,771	12,839	6,018	6,247	4,615	7,212	5,264	3,423
Dry (13%)	3,295	5,834	6,231	6,471	7,523	12,038	6,044	4,454	4,221	6,891	5,678	3,525
Critical (25%)	3,398	3,517	4,809	6,142	4,633	6,097	4,255	2,624	2,833	5,725	3,243	2,256

Alternative 4 H1 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5,654	11,168	28,620	26,031	32,141	28,931	17,619	7,764	5,747	10,150	5,827	4,820
20%	5,102	8,565	8,968	22,463	29,478	23,039	9,062	6,343	5,578	7,987	5,046	4,517
30%	4,825	3,744	8,030	14,654	15,012	18,042	6,064	5,585	5,407	7,630	4,562	3,996
40%	4,446	3,686	7,352	9,220	9,780	10,058	5,750	5,206	5,386	7,434	4,116	3,558
50%	3,939	3,680	7,081	8,756	8,359	8,851	5,619	4,678	4,835	5,987	4,069	3,403
60%	3,725	3,648	6,330	8,416	6,670	8,308	5,302	4,499	4,704	5,032	3,651	3,382
70%	3,489	3,628	5,414	7,595	5,434	6,347	5,203	4,050	4,202	4,837	3,558	3,350
80%	3,187	3,613	5,211	7,291	5,074	5,598	4,969	3,827	3,783	4,194	3,401	3,257
90%	2,801	3,342	4,331	5,542	4,074	4,818	4,724	3,041	3,605	3,865	3,314	3,212
Long Term												
Full Simulation Period[a]	4,160	5,979	10,938	12,763	13,872	13,864	8,750	5,513	4,975	6,552	4,375	3,841
Water Year Types[b]												
Wet (31%)	3,892	12,085	25,337	20,101	27,671	26,066	17,532	7,913	6,241	7,516	4,219	3,763
Above Normal (25%)	4,343	3,348	7,677	25,569	25,250	20,336	7,406	4,973	4,445	8,923	4,799	3,662
Below Normal (6%)	5,702	3,743	5,494	9,220	9,780	8,661	5,768	4,499	5,386	3,719	3,401	3,352
Dry (13%)	3,418	4,894	6,412	6,544	6,816	9,781	6,300	5,845	5,292	7,549	5,529	4,558
Critical (25%)	4,587	3,464	5,431	7,455	4,745	5,822	4,818	3,748	3,839	4,602	3,602	3,497

Alternative 4 H1 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-1,663**	**-5,043**	**-1,658**	**-1,941**	**-2,325**	**-3,291**	**-3,703**	**-3,739**	**-1,002**	2,195	**-387**	**-1,245**
20%	727	**-4,456**	**-1,166**	**-362**	**-2,509**	**-2,421**	**-632**	95	963	775	**-626**	181
30%	986	**-2,113**	133	**-2,350**	**-2,860**	**-2,566**	**-1,856**	**-140**	1,095	566	**-733**	**-227**
40%	1,014	**-282**	337	**-409**	**-4,991**	**-5,254**	**-268**	**-75**	1,129	588	**-1,102**	**-288**
50%	669	**-47**	861	**-673**	**-1,946**	**-3,798**	**-167**	110	706	**-858**	**-432**	12
60%	609	149	658	515	444	**-3,396**	151	291	886	**-1,672**	**-476**	82
70%	750	251	638	1,903	**-121**	**-1,987**	390	538	494	**-1,571**	**-337**	447
80%	703	462	1,249	2,063	**-348**	**-460**	399	883	1,021	**-1,252**	**-248**	1,085
90%	688	825	753	1,346	729	650	923	592	954	**-1,111**	422	1,072
Long Term												
Full Simulation Period[a]	190	**-1,176**	189	**-369**	**-1,237**	**-2,238**	**-657**	**-868**	**-354**	**-193**	**-225**	**-206**
Water Year Types[b]												
Wet (31%)	**-2,058**	**-3,304**	**-903**	**-1,978**	**-2,492**	**-3,926**	**-1,562**	**-4,795**	**-3,730**	**-581**	**-884**	**-3,144**
Above Normal (25%)	1,755	**-911**	444	**-2,382**	**-1,282**	**-2,762**	**-3,924**	**-2,075**	**-420**	2,853	296	**-491**
Below Normal (6%)	1,327	246	1,911	**-93**	**-4,991**	**-4,177**	**-250**	**-1,749**	771	**-3,493**	**-1,864**	**-71**
Dry (13%)	123	**-941**	181	74	**-707**	**-2,258**	255	1,391	1,071	658	**-149**	1,034
Critical (25%)	1,189	**-53**	622	1,313	112	**-276**	563	1,124	1,006	**-1,123**	359	1,241

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-25-6. Sutter and Steamboat Slough, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	7,316	16,211	30,278	27,972	34,467	32,221	21,322	11,503	6,749	7,955	6,214	6,064
20%	4,375	13,021	10,134	22,825	31,987	25,460	9,694	6,247	4,615	7,212	5,672	4,336
30%	3,839	5,857	7,896	17,005	17,872	20,608	7,920	5,725	4,312	7,064	5,295	4,222
40%	3,432	3,968	7,015	9,630	14,771	15,312	6,018	5,282	4,257	6,846	5,217	3,846
50%	3,269	3,727	6,220	9,430	10,305	12,649	5,787	4,568	4,130	6,845	4,500	3,392
60%	3,117	3,499	5,672	7,901	6,226	11,704	5,150	4,207	3,818	6,704	4,127	3,300
70%	2,739	3,378	4,776	5,692	5,554	8,334	4,814	3,512	3,709	6,408	3,895	2,903
80%	2,484	3,151	3,962	5,228	5,422	6,058	4,570	2,944	2,762	5,446	3,648	2,173
90%	2,113	2,517	3,579	4,196	3,345	4,168	3,801	2,449	2,651	4,975	2,892	2,140
Long Term												
Full Simulation Period[a]	3,970	7,156	10,749	13,133	15,109	16,103	9,407	6,382	5,330	6,746	4,600	4,046
Water Year Types[b]												
Wet (31%)	5,950	15,389	26,240	22,079	30,162	29,992	19,094	12,707	9,971	8,097	5,103	6,907
Above Normal (25%)	2,589	4,259	7,233	27,951	26,532	23,098	11,330	7,047	4,864	6,070	4,503	4,154
Below Normal (6%)	4,375	3,496	3,582	9,313	14,771	12,839	6,018	6,247	4,615	7,212	5,264	3,423
Dry (13%)	3,295	5,834	6,231	6,471	7,523	12,038	6,044	4,454	4,221	6,891	5,678	3,525
Critical (25%)	3,398	3,517	4,809	6,142	4,633	6,097	4,255	2,624	2,833	5,725	3,243	2,256

Alternative 4 H2 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	6,665	11,577	29,155	26,062	32,204	28,955	19,387	8,098	5,717	7,035	5,516	4,379
20%	5,942	9,024	9,273	22,340	29,480	23,056	11,083	7,482	5,198	6,736	5,034	4,214
30%	4,319	3,745	8,097	14,484	15,276	18,774	9,253	6,600	4,886	6,225	4,588	3,925
40%	4,065	3,727	7,932	8,427	10,259	10,096	6,773	5,939	4,731	5,813	4,026	3,540
50%	3,922	3,704	6,474	8,107	8,430	9,303	5,551	5,110	4,301	5,359	3,960	3,441
60%	3,824	3,660	5,028	7,835	6,434	8,299	5,250	4,705	4,204	4,916	3,733	3,405
70%	3,597	3,650	4,432	7,490	5,413	6,661	5,162	4,158	3,976	4,270	3,588	3,376
80%	3,138	3,576	4,240	6,102	5,050	5,596	4,880	3,650	3,693	4,058	3,400	3,354
90%	3,021	3,247	3,805	5,641	3,809	4,689	4,642	3,010	3,594	3,773	3,333	3,158
Long Term												
Full Simulation Period[a]	4,332	6,071	10,670	12,677	13,840	14,025	9,583	5,871	4,688	5,436	4,248	3,688
Water Year Types[b]												
Wet (31%)	4,095	12,274	25,611	20,054	27,442	26,012	19,365	8,630	5,766	5,777	4,183	3,799
Above Normal (25%)	4,646	3,287	8,054	26,129	25,536	20,575	11,037	6,738	4,297	5,172	4,606	3,441
Below Normal (6%)	3,390	3,738	4,395	9,169	10,367	9,514	5,800	4,705	5,594	3,822	3,400	3,363
Dry (13%)	3,475	4,972	6,010	6,253	6,792	10,021	6,129	5,644	4,817	6,586	5,030	3,695
Critical (25%)	5,269	3,567	4,745	7,236	4,612	5,922	4,695	3,732	3,699	4,671	3,701	3,758

Alternative 4 H2 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-652**	**-4,634**	**-1,123**	**-1,910**	**-2,263**	**-3,266**	**-1,936**	**-3,406**	**-1,032**	**-920**	**-698**	**-1,685**
20%	1,567	**-3,997**	**-861**	**-485**	**-2,507**	**-2,404**	1,389	1,234	583	**-476**	**-638**	**-121**
30%	480	**-2,113**	201	**-2,520**	**-2,596**	**-1,834**	1,333	875	574	**-839**	**-706**	**-298**
40%	633	**-242**	917	**-1,203**	**-4,512**	**-5,216**	754	657	475	**-1,033**	**-1,191**	**-306**
50%	652	**-22**	254	**-1,323**	**-1,875**	**-3,346**	**-236**	542	172	**-1,486**	**-540**	49
60%	707	161	**-644**	**-66**	208	**-3,404**	99	498	386	**-1,788**	**-394**	105
70%	858	273	**-344**	1,798	**-141**	**-1,673**	348	646	267	**-2,138**	**-306**	473
80%	655	425	278	874	**-373**	**-462**	310	706	931	**-1,388**	**-248**	1,181
90%	908	730	226	1,445	464	521	841	561	943	**-1,202**	441	1,018
Long Term												
Full Simulation Period[a]	362	**-1,085**	**-79**	**-455**	**-1,269**	**-2,077**	176	**-511**	**-641**	**-1,310**	**-352**	**-358**
Water Year Types[b]												
Wet (31%)	**-1,855**	**-3,114**	**-629**	**-2,024**	**-2,720**	**-3,980**	271	**-4,078**	**-4,206**	**-2,320**	**-920**	**-3,107**
Above Normal (25%)	2,058	**-972**	821	**-1,823**	**-996**	**-2,523**	**-293**	**-309**	**-567**	**-898**	103	**-713**
Below Normal (6%)	**-984**	241	813	**-144**	**-4,403**	**-3,324**	**-218**	**-1,542**	979	**-3,390**	**-1,864**	**-61**
Dry (13%)	180	**-863**	**-220**	**-217**	**-731**	**-2,017**	85	1,189	596	**-305**	**-648**	170
Critical (25%)	1,871	51	**-64**	1,094	**-21**	**-175**	440	1,108	866	**-1,054**	459	1,502

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-25-7. Sutter and Steamboat Slough, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	7,316	16,211	30,278	27,972	34,467	32,221	21,322	11,503	6,749	7,955	6,214	6,064
20%	4,375	13,021	10,134	22,825	31,987	25,460	9,694	6,247	4,615	7,212	5,672	4,336
30%	3,839	5,857	7,896	17,005	17,872	20,608	7,920	5,725	4,312	7,064	5,295	4,222
40%	3,432	3,968	7,015	9,630	14,771	15,312	6,018	5,282	4,257	6,846	5,217	3,846
50%	3,269	3,727	6,220	9,430	10,305	12,649	5,787	4,568	4,130	6,845	4,500	3,392
60%	3,117	3,499	5,672	7,901	6,226	11,704	5,150	4,207	3,818	6,704	4,127	3,300
70%	2,739	3,378	4,776	5,692	5,554	8,334	4,814	3,512	3,709	6,408	3,895	2,903
80%	2,484	3,151	3,962	5,228	5,422	6,058	4,570	2,944	2,762	5,446	3,648	2,173
90%	2,113	2,517	3,579	4,196	3,345	4,168	3,801	2,449	2,651	4,975	2,892	2,140
Long Term												
Full Simulation Period[a]	3,970	7,156	10,749	13,133	15,109	16,103	9,407	6,382	5,330	6,746	4,600	4,046
Water Year Types[b]												
Wet (31%)	5,950	15,389	26,240	22,079	30,162	29,992	19,094	12,707	9,971	8,097	5,103	6,907
Above Normal (25%)	2,589	4,259	7,233	27,951	26,532	23,098	11,330	7,047	4,864	6,070	4,503	4,154
Below Normal (6%)	4,375	3,496	3,582	9,313	14,771	12,839	6,018	6,247	4,615	7,212	5,264	3,423
Dry (13%)	3,295	5,834	6,231	6,471	7,523	12,038	6,044	4,454	4,221	6,891	5,678	3,525
Critical (25%)	3,398	3,517	4,809	6,142	4,633	6,097	4,255	2,624	2,833	5,725	3,243	2,256

Alternative 4 H3 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,954	11,229	27,902	25,932	31,560	28,877	17,612	7,734	5,794	10,160	5,786	8,145
20%	4,338	8,803	8,220	22,263	29,478	23,039	9,065	6,315	5,620	7,883	5,076	7,095
30%	4,078	5,428	8,025	14,971	15,044	16,742	6,073	5,588	5,530	7,526	4,529	5,305
40%	3,982	3,856	7,845	9,149	9,809	10,072	5,766	5,218	5,387	7,268	4,043	5,129
50%	3,827	3,747	7,205	8,622	8,421	8,853	5,320	4,948	4,772	5,609	3,703	4,504
60%	3,710	3,680	6,011	7,624	6,653	8,298	5,162	4,502	4,546	5,358	3,587	4,167
70%	3,467	3,635	5,700	6,709	5,508	6,406	5,029	4,036	4,181	4,601	3,522	3,385
80%	3,332	3,597	5,360	5,745	5,049	5,598	4,969	3,829	3,763	4,253	3,469	3,164
90%	2,915	3,322	3,926	5,140	3,748	4,816	4,766	3,050	3,585	3,832	3,383	3,077
Long Term												
Full Simulation Period[a]	4,007	6,161	10,830	12,473	13,708	13,615	8,742	5,549	4,974	6,460	4,235	5,019
Water Year Types[b]												
Wet (31%)	3,910	11,852	25,024	20,034	27,448	25,685	17,740	7,910	6,229	7,435	4,253	8,067
Above Normal (25%)	5,136	3,349	8,025	25,070	24,698	20,315	7,429	5,019	4,471	8,908	4,841	5,253
Below Normal (6%)	3,830	3,807	4,307	9,149	9,809	8,668	5,766	4,502	5,658	3,738	3,469	3,314
Dry (13%)	3,573	5,262	6,316	6,173	6,846	9,130	6,199	5,942	5,276	7,403	5,020	4,213
Critical (25%)	4,017	3,923	5,514	7,091	4,590	5,857	4,700	3,769	3,791	4,492	3,503	3,472

Alternative 4 H3 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-2,362	-4,982	-2,376	-2,040	-2,907	-3,345	-3,710	-3,769	-955	2,205	-428	2,080
20%	-37	-4,218	-1,915	-562	-2,509	-2,421	-629	67	1,005	671	-596	2,759
30%	238	-429	129	-2,033	-2,828	-3,866	-1,848	-138	1,218	461	-766	1,082
40%	550	-113	830	-480	-4,961	-5,240	-252	-64	1,130	422	-1,175	1,283
50%	558	20	985	-808	-1,884	-3,796	-467	380	642	-1,237	-798	1,112
60%	593	181	339	-277	427	-3,406	12	294	728	-1,346	-539	867
70%	728	257	924	1,017	-46	-1,928	216	524	472	-1,807	-373	482
80%	849	446	1,398	517	-373	-460	399	885	1,001	-1,193	-180	991
90%	802	805	347	944	403	648	964	602	934	-1,143	491	937
Long Term												
Full Simulation Period[a]	37	-995	82	-659	-1,401	-2,487	-664	-832	-356	-285	-366	972
Water Year Types[b]												
Wet (31%)	-2,040	-3,536	-1,216	-2,045	-2,714	-4,307	-1,354	-4,798	-3,742	-663	-849	1,160
Above Normal (25%)	2,547	-910	792	-2,882	-1,835	-2,783	-3,901	-2,028	-394	2,839	338	1,099
Below Normal (6%)	-545	311	725	-164	-4,961	-4,171	-252	-1,746	1,042	-3,474	-1,796	-110
Dry (13%)	278	-572	85	-298	-677	-2,908	155	1,488	1,056	512	-658	688
Critical (25%)	619	406	705	949	-44	-241	445	1,145	959	-1,233	260	1,215

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-25-8. Sutter and Steamboat Slough, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	7,316	16,211	30,278	27,972	34,467	32,221	21,322	11,503	6,749	7,955	6,214	6,064
20%	4,375	13,021	10,134	22,825	31,987	25,460	9,694	6,247	4,615	7,212	5,672	4,336
30%	3,839	5,857	7,896	17,005	17,872	20,608	7,920	5,725	4,312	7,064	5,295	4,222
40%	3,432	3,968	7,015	9,630	14,771	15,312	6,018	5,282	4,257	6,846	5,217	3,846
50%	3,269	3,727	6,220	9,430	10,305	12,649	5,787	4,568	4,130	6,845	4,500	3,392
60%	3,117	3,499	5,672	7,901	6,226	11,704	5,150	4,207	3,818	6,704	4,127	3,300
70%	2,739	3,378	4,776	5,692	5,554	8,334	4,814	3,512	3,709	6,408	3,895	2,903
80%	2,484	3,151	3,962	5,228	5,422	6,058	4,570	2,944	2,762	5,446	3,648	2,173
90%	2,113	2,517	3,579	4,196	3,345	4,168	3,801	2,449	2,651	4,975	2,892	2,140
Long Term												
Full Simulation Period[a]	3,970	7,156	10,749	13,133	15,109	16,103	9,407	6,382	5,330	6,746	4,600	4,046
Water Year Types[b]												
Wet (31%)	5,950	15,389	26,240	22,079	30,162	29,992	19,094	12,707	9,971	8,097	5,103	6,907
Above Normal (25%)	2,589	4,259	7,233	27,951	26,532	23,098	11,330	7,047	4,864	6,070	4,503	4,154
Below Normal (6%)	4,375	3,496	3,582	9,313	14,771	12,839	6,018	6,247	4,615	7,212	5,264	3,423
Dry (13%)	3,295	5,834	6,231	6,471	7,523	12,038	6,044	4,454	4,221	6,891	5,678	3,525
Critical (25%)	3,398	3,517	4,809	6,142	4,633	6,097	4,255	2,624	2,833	5,725	3,243	2,256

Alternative 4 H4 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5,866	10,471	27,997	26,073	31,556	28,982	19,423	8,036	5,640	6,924	5,450	8,108
20%	5,294	8,807	8,226	22,440	29,488	23,058	11,082	7,437	5,137	6,459	5,074	6,714
30%	4,336	5,448	8,062	14,504	15,237	18,304	9,244	6,566	4,832	5,947	4,932	5,263
40%	4,110	3,798	7,734	8,423	10,030	10,078	6,843	5,880	4,677	5,570	4,204	4,580
50%	4,016	3,733	6,459	7,871	8,416	8,888	5,557	5,098	4,303	5,028	4,031	4,041
60%	3,883	3,644	5,728	7,318	6,478	8,300	5,250	4,705	4,214	4,622	3,970	4,022
70%	3,689	3,615	5,160	5,884	5,412	6,409	5,075	4,097	3,978	4,267	3,696	3,686
80%	3,342	3,597	4,485	5,318	5,048	5,599	4,794	3,653	3,794	4,137	3,632	3,608
90%	2,744	3,289	3,945	4,772	3,829	4,655	4,762	3,009	3,581	3,953	3,466	3,320
Long Term												
Full Simulation Period[a]	4,249	6,118	10,609	12,165	13,755	13,823	9,593	5,849	4,671	5,333	4,352	4,984
Water Year Types[b]												
Wet (31%)	4,578	11,623	25,071	20,011	27,446	25,789	19,389	8,578	5,767	5,752	4,317	7,956
Above Normal (25%)	5,023	3,312	7,947	25,926	24,899	20,451	11,080	6,676	4,300	5,174	4,606	5,263
Below Normal (6%)	3,883	3,769	5,238	9,209	10,030	8,684	5,783	4,705	5,440	3,861	3,423	3,393
Dry (13%)	3,574	5,196	5,962	6,182	6,797	9,850	6,020	5,632	4,760	6,094	5,038	3,745
Critical (25%)	4,289	4,044	4,897	5,761	4,657	5,805	4,782	3,736	3,716	4,746	3,914	3,804

Alternative 4 H4 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-1,450**	**-5,740**	**-2,281**	**-1,899**	**-2,911**	**-3,240**	**-1,899**	**-3,468**	**-1,109**	**-1,031**	**-765**	2,044
20%	919	**-4,215**	**-1,909**	**-385**	**-2,498**	**-2,402**	1,388	1,190	522	**-753**	**-598**	2,378
30%	497	**-409**	166	**-2,500**	**-2,635**	**-2,304**	1,324	841	520	**-1,117**	**-362**	1,041
40%	679	**-170**	719	**-1,206**	**-4,740**	**-5,235**	825	598	421	**-1,276**	**-1,013**	734
50%	747	6	239	**-1,559**	**-1,889**	**-3,761**	**-230**	530	173	**-1,818**	**-470**	650
60%	767	145	56	**-583**	252	**-3,404**	99	497	396	**-2,083**	**-157**	722
70%	950	237	384	192	**-142**	**-1,925**	261	585	270	**-2,141**	**-198**	783
80%	859	447	523	90	**-374**	**-459**	224	709	1,032	**-1,309**	**-16**	1,436
90%	631	772	366	576	484	487	960	560	930	**-1,022**	574	1,180
Long Term												
Full Simulation Period[a]	279	**-1,038**	**-139**	**-968**	**-1,354**	**-2,280**	186	**-533**	**-659**	**-1,413**	**-249**	938
Water Year Types[b]												
Wet (31%)	**-1,372**	**-3,766**	**-1,169**	**-2,068**	**-2,717**	**-4,203**	295	**-4,129**	**-4,204**	**-2,346**	**-786**	1,049
Above Normal (25%)	2,434	**-947**	714	**-2,025**	**-1,633**	**-2,647**	**-251**	**-372**	**-565**	**-896**	103	1,110
Below Normal (6%)	**-492**	273	1,656	**-104**	**-4,740**	**-4,155**	**-236**	**-1,543**	824	**-3,351**	**-1,842**	**-30**
Dry (13%)	279	**-638**	**-269**	**-288**	**-726**	**-2,188**	**-24**	1,178	539	**-797**	**-640**	220
Critical (25%)	891	528	88	**-381**	24	**-292**	527	1,112	884	**-980**	671	1,548

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-25-9. Sutter and Steamboat Slough, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	7,316	16,211	30,278	27,972	34,467	32,221	21,322	11,503	6,749	7,955	6,214	6,064
20%	4,375	13,021	10,134	22,825	31,987	25,460	9,694	6,247	4,615	7,212	5,672	4,336
30%	3,839	5,857	7,896	17,005	17,872	20,608	7,920	5,725	4,312	7,064	5,295	4,222
40%	3,432	3,968	7,015	9,630	14,771	15,312	6,018	5,282	4,257	6,846	5,217	3,846
50%	3,269	3,727	6,220	9,430	10,305	12,649	5,787	4,568	4,130	6,845	4,500	3,392
60%	3,117	3,499	5,672	7,901	6,226	11,704	5,150	4,207	3,818	6,704	4,127	3,300
70%	2,739	3,378	4,776	5,692	5,554	8,334	4,814	3,512	3,709	6,408	3,895	2,903
80%	2,484	3,151	3,962	5,228	5,422	6,058	4,570	2,944	2,762	5,446	3,648	2,173
90%	2,113	2,517	3,579	4,196	3,345	4,168	3,801	2,449	2,651	4,975	2,892	2,140
Long Term												
Full Simulation Period[a]	3,970	7,156	10,749	13,133	15,109	16,103	9,407	6,382	5,330	6,746	4,600	4,046
Water Year Types[b]												
Wet (31%)	5,950	15,389	26,240	22,079	30,162	29,992	19,094	12,707	9,971	8,097	5,103	6,907
Above Normal (25%)	2,589	4,259	7,233	27,951	26,532	23,098	11,330	7,047	4,864	6,070	4,503	4,154
Below Normal (6%)	4,375	3,496	3,582	9,313	14,771	12,839	6,018	6,247	4,615	7,212	5,264	3,423
Dry (13%)	3,295	5,834	6,231	6,471	7,523	12,038	6,044	4,454	4,221	6,891	5,678	3,525
Critical (25%)	3,398	3,517	4,809	6,142	4,633	6,097	4,255	2,624	2,833	5,725	3,243	2,256

Alternative 5 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	6,105	12,358	30,805	28,820	34,826	32,094	20,493	8,854	7,072	9,086	6,409	9,583
20%	4,920	9,072	8,379	25,030	32,700	26,165	9,739	5,863	6,440	8,639	5,767	8,034
30%	4,710	6,052	8,215	16,276	17,996	19,414	6,984	5,634	5,865	8,163	5,275	5,817
40%	4,453	4,785	7,424	9,443	11,231	11,913	6,468	5,065	5,525	7,956	4,166	3,658
50%	4,185	4,422	6,925	8,949	9,215	10,806	5,816	4,673	5,424	7,312	3,740	3,626
60%	3,849	4,125	6,330	7,894	6,787	9,033	5,447	4,373	5,055	6,828	3,574	3,612
70%	3,750	3,714	6,100	6,924	6,015	6,921	5,336	4,109	4,656	5,708	3,459	3,247
80%	3,581	3,603	4,435	5,926	5,189	5,834	5,197	3,925	3,933	4,971	3,401	3,225
90%	2,993	3,523	3,888	5,302	3,855	4,951	5,030	3,104	3,709	3,883	3,218	3,132
Long Term												
Full Simulation Period[a]	4,313	6,805	11,328	13,574	15,162	15,242	9,646	5,813	5,645	6,912	4,447	5,175
Water Year Types[b]												
Wet (31%)	4,534	13,735	27,098	22,425	30,543	28,774	19,522	9,263	7,964	7,525	5,002	9,394
Above Normal (25%)	3,510	4,121	7,902	28,291	27,825	22,685	9,140	5,267	5,971	8,369	4,671	5,817
Below Normal (6%)	3,849	4,143	6,074	9,423	11,231	10,320	5,951	4,613	6,440	6,936	3,751	3,133
Dry (13%)	3,798	5,429	6,442	6,517	7,309	10,516	6,437	5,681	5,204	7,443	5,330	3,339
Critical (25%)	4,962	3,968	5,041	7,081	4,859	6,204	5,255	3,617	3,854	5,409	3,346	3,420

Alternative 5 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-1,211**	**-3,853**	528	848	360	**-128**	**-830**	**-2,649**	323	1,131	195	3,519
20%	545	**-3,950**	**-1,755**	2,205	714	705	45	**-385**	1,824	1,427	95	3,698
30%	871	195	319	**-729**	124	**-1,193**	**-936**	**-91**	1,553	1,099	**-19**	1,594
40%	1,022	817	410	**-187**	**-3,539**	**-3,399**	450	**-217**	1,268	1,110	**-1,051**	**-188**
50%	916	695	706	**-481**	**-1,090**	**-1,843**	29	104	1,295	467	**-760**	234
60%	732	626	658	**-7**	561	**-2,671**	297	165	1,237	123	**-552**	312
70%	1,011	337	1,324	1,232	461	**-1,413**	522	597	948	**-700**	**-435**	344
80%	1,098	452	473	699	**-234**	**-224**	627	981	1,170	**-475**	**-248**	1,052
90%	880	1,006	310	1,106	510	783	1,229	655	1,058	**-1,092**	326	992
Long Term												
Full Simulation Period[a]	343	**-351**	579	441	53	**-861**	240	**-569**	316	166	**-154**	1,129
Water Year Types[b]												
Wet (31%)	**-1,417**	**-1,654**	858	347	381	**-1,218**	428	**-3,445**	**-2,007**	**-572**	**-101**	2,487
Above Normal (25%)	921	**-138**	668	339	1,292	**-413**	**-2,191**	**-1,780**	1,107	2,299	167	1,663
Below Normal (6%)	**-526**	647	2,491	110	**-3,539**	**-2,518**	**-67**	**-1,635**	1,824	**-276**	**-1,514**	**-291**
Dry (13%)	503	**-405**	211	47	**-214**	**-1,523**	393	1,226	983	553	**-348**	**-186**
Critical (25%)	1,565	451	232	939	226	107	999	993	1,022	**-316**	103	1,164

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-25-10. Sutter and Steamboat Slough, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	7,316	16,211	30,278	27,972	34,467	32,221	21,322	11,503	6,749	7,955	6,214	6,064
20%	4,375	13,021	10,134	22,825	31,987	25,460	9,694	6,247	4,615	7,212	5,672	4,336
30%	3,839	5,857	7,896	17,005	17,872	20,608	7,920	5,725	4,312	7,064	5,295	4,222
40%	3,432	3,968	7,015	9,630	14,771	15,312	6,018	5,282	4,257	6,846	5,217	3,846
50%	3,269	3,727	6,220	9,430	10,305	12,649	5,787	4,568	4,130	6,845	4,500	3,392
60%	3,117	3,499	5,672	7,901	6,226	11,704	5,150	4,207	3,818	6,704	4,127	3,300
70%	2,739	3,378	4,776	5,692	5,554	8,334	4,814	3,512	3,709	6,408	3,895	2,903
80%	2,484	3,151	3,962	5,228	5,422	6,058	4,570	2,944	2,762	5,446	3,648	2,173
90%	2,113	2,517	3,579	4,196	3,345	4,168	3,801	2,449	2,651	4,975	2,892	2,140
Long Term												
Full Simulation Period[a]	3,970	7,156	10,749	13,133	15,109	16,103	9,407	6,382	5,330	6,746	4,600	4,046
Water Year Types[b]												
Wet (31%)	5,950	15,389	26,240	22,079	30,162	29,992	19,094	12,707	9,971	8,097	5,103	6,907
Above Normal (25%)	2,589	4,259	7,233	27,951	26,532	23,098	11,330	7,047	4,864	6,070	4,503	4,154
Below Normal (6%)	4,375	3,496	3,582	9,313	14,771	12,839	6,018	6,247	4,615	7,212	5,264	3,423
Dry (13%)	3,295	5,834	6,231	6,471	7,523	12,038	6,044	4,454	4,221	6,891	5,678	3,525
Critical (25%)	3,398	3,517	4,809	6,142	4,633	6,097	4,255	2,624	2,833	5,725	3,243	2,256

Alternative 6A,6B,6C (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,138	11,677	27,256	23,137	29,399	27,292	17,065	6,774	5,337	4,762	3,635	6,678
20%	3,764	8,307	8,533	20,322	26,645	22,192	8,775	5,255	4,442	3,990	3,597	4,404
30%	3,704	5,483	7,995	14,452	13,789	16,303	5,972	4,991	4,379	3,869	3,576	3,967
40%	3,514	3,757	7,062	9,106	9,654	9,642	5,806	4,745	4,288	3,715	3,508	3,407
50%	3,500	3,694	6,293	8,114	8,607	8,631	5,358	4,349	4,196	3,579	3,471	3,290
60%	3,454	3,653	5,075	7,300	7,756	8,164	5,138	4,128	4,076	3,506	3,430	3,230
70%	3,333	3,554	4,354	6,048	6,048	6,403	5,043	3,836	3,651	3,505	3,340	3,174
80%	3,271	3,456	4,276	5,343	5,055	5,560	4,744	3,407	3,431	3,480	3,321	3,134
90%	2,585	3,189	3,529	4,560	3,783	4,169	4,567	2,844	3,351	3,460	3,289	3,014
Long Term												
Full Simulation Period[a]	3,452	5,922	10,148	11,502	13,156	13,129	8,499	5,056	4,347	3,887	3,431	4,017
Water Year Types[b]												
Wet (31%)	3,857	11,137	24,349	18,794	25,905	24,870	16,991	7,622	5,383	4,805	3,623	6,329
Above Normal (25%)	2,554	3,189	7,374	23,345	22,099	19,217	7,291	5,000	4,057	3,852	3,576	3,967
Below Normal (6%)	3,699	3,757	4,276	9,107	9,654	8,164	5,829	4,527	5,397	3,504	3,604	3,407
Dry (13%)	3,516	5,203	5,830	6,227	6,693	9,222	6,173	4,774	4,281	3,622	3,427	3,248
Critical (25%)	3,389	3,851	4,526	5,631	5,250	5,421	4,583	3,358	3,476	3,455	3,188	2,923

Alternative 6A,6B,6C (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-3,178**	**-4,534**	**-3,022**	**-4,834**	**-5,067**	**-4,929**	**-4,257**	**-4,729**	**-1,412**	**-3,194**	**-2,579**	614
20%	**-611**	**-4,714**	**-1,601**	**-2,503**	**-5,341**	**-3,268**	**-919**	**-992**	**-173**	**-3,222**	**-2,075**	68
30%	**-135**	**-374**	99	**-2,553**	**-4,084**	**-4,305**	**-1,949**	**-735**	68	**-3,195**	**-1,718**	**-255**
40%	82	**-211**	47	**-524**	**-5,116**	**-5,670**	**-212**	**-537**	31	**-3,131**	**-1,710**	**-439**
50%	231	**-33**	73	**-1,316**	**-1,698**	**-4,018**	**-428**	**-220**	66	**-3,266**	**-1,029**	**-101**
60%	337	154	**-597**	**-601**	1,530	**-3,539**	**-13**	**-79**	258	**-3,198**	**-696**	**-71**
70%	594	177	**-422**	356	494	**-1,932**	229	324	**-58**	**-2,903**	**-555**	271
80%	788	306	314	115	**-368**	**-498**	175	463	668	**-1,966**	**-328**	961
90%	472	672	**-50**	363	438	1	766	395	700	**-1,515**	397	874
Long Term												
Full Simulation Period[a]	**-518**	**-1,234**	**-600**	**-1,630**	**-1,953**	**-2,973**	**-908**	**-1,326**	**-983**	**-2,859**	**-1,170**	**-30**
Water Year Types[b]												
Wet (31%)	**-2,094**	**-4,252**	**-1,891**	**-3,284**	**-4,257**	**-5,122**	**-2,102**	**-5,086**	**-4,588**	**-3,292**	**-1,480**	**-577**
Above Normal (25%)	**-35**	**-1,070**	141	**-4,606**	**-4,433**	**-3,881**	**-4,040**	**-2,047**	**-808**	**-2,217**	**-927**	**-186**
Below Normal (6%)	**-676**	261	693	**-206**	**-5,116**	**-4,674**	**-189**	**-1,721**	782	**-3,708**	**-1,660**	**-16**
Dry (13%)	221	**-631**	**-400**	**-243**	**-830**	**-2,817**	129	319	60	**-3,269**	**-2,251**	**-276**
Critical (25%)	**-9**	334	**-283**	**-511**	617	**-677**	328	734	643	**-2,270**	**-55**	666

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-25-11. Sutter and Steamboat Slough, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	7,316	16,211	30,278	27,972	34,467	32,221	21,322	11,503	6,749	7,955	6,214	6,064
20%	4,375	13,021	10,134	22,825	31,987	25,460	9,694	6,247	4,615	7,212	5,672	4,336
30%	3,839	5,857	7,896	17,005	17,872	20,608	7,920	5,725	4,312	7,064	5,295	4,222
40%	3,432	3,968	7,015	9,630	14,771	15,312	6,018	5,282	4,257	6,846	5,217	3,846
50%	3,269	3,727	6,220	9,430	10,305	12,649	5,787	4,568	4,130	6,845	4,500	3,392
60%	3,117	3,499	5,672	7,901	6,226	11,704	5,150	4,207	3,818	6,704	4,127	3,300
70%	2,739	3,378	4,776	5,692	5,554	8,334	4,814	3,512	3,709	6,408	3,895	2,903
80%	2,484	3,151	3,962	5,228	5,422	6,058	4,570	2,944	2,762	5,446	3,648	2,173
90%	2,113	2,517	3,579	4,196	3,345	4,168	3,801	2,449	2,651	4,975	2,892	2,140
Long Term												
Full Simulation Period[a]	3,970	7,156	10,749	13,133	15,109	16,103	9,407	6,382	5,330	6,746	4,600	4,046
Water Year Types[b]												
Wet (31%)	5,950	15,389	26,240	22,079	30,162	29,992	19,094	12,707	9,971	8,097	5,103	6,907
Above Normal (25%)	2,589	4,259	7,233	27,951	26,532	23,098	11,330	7,047	4,864	6,070	4,503	4,154
Below Normal (6%)	4,375	3,496	3,582	9,313	14,771	12,839	6,018	6,247	4,615	7,212	5,264	3,423
Dry (13%)	3,295	5,834	6,231	6,471	7,523	12,038	6,044	4,454	4,221	6,891	5,678	3,525
Critical (25%)	3,398	3,517	4,809	6,142	4,633	6,097	4,255	2,624	2,833	5,725	3,243	2,256

Alternative 7 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,056	11,263	29,228	25,460	31,418	28,932	17,784	7,389	5,227	9,216	5,615	8,289
20%	3,925	8,674	8,277	22,547	29,222	22,703	9,153	5,277	4,917	7,758	5,099	6,820
30%	3,840	5,532	7,923	14,181	14,736	16,331	6,287	4,973	4,856	7,313	4,929	5,233
40%	3,765	3,989	7,022	8,683	9,620	9,854	5,756	4,766	4,625	7,031	4,916	4,265
50%	3,610	3,783	6,353	8,121	8,823	9,046	5,543	4,412	4,615	6,640	4,763	3,715
60%	3,562	3,714	5,171	7,373	7,857	8,245	5,330	4,103	4,592	5,976	4,549	3,276
70%	3,430	3,675	4,504	5,974	6,243	6,860	5,062	3,848	4,537	5,345	4,443	3,195
80%	3,405	3,589	4,348	5,428	5,150	5,730	4,857	3,543	4,498	4,521	4,359	3,126
90%	2,600	3,559	3,635	4,675	3,850	4,305	4,661	3,493	4,351	4,506	4,280	3,074
Long Term												
Full Simulation Period[a]	3,498	6,232	10,520	12,055	13,858	13,543	8,740	5,289	4,995	6,541	4,830	4,771
Water Year Types[b]												
Wet (31%)	3,951	12,000	25,725	19,668	27,258	25,589	17,533	7,887	6,215	7,361	4,819	8,098
Above Normal (25%)	2,691	3,789	7,277	25,693	24,396	19,188	7,523	5,021	4,730	7,078	4,725	5,233
Below Normal (6%)	3,417	3,793	4,348	9,136	9,620	9,494	6,181	4,633	5,215	7,031	5,298	4,265
Dry (13%)	3,525	5,186	5,853	6,273	6,969	9,624	6,274	4,821	4,641	7,785	5,398	3,276
Critical (25%)	3,454	3,919	4,623	5,718	5,282	5,593	4,677	3,824	4,365	4,577	4,334	3,224

Alternative 7 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-3,261**	**-4,948**	**-1,049**	**-2,511**	**-3,049**	**-3,289**	**-3,538**	**-4,114**	**-1,522**	1,261	**-599**	2,225
20%	**-449**	**-4,347**	**-1,857**	**-278**	**-2,764**	**-2,757**	**-541**	**-970**	302	546	**-573**	2,484
30%	1	**-325**	27	**-2,823**	**-3,136**	**-4,277**	**-1,633**	**-752**	544	249	**-366**	1,010
40%	333	21	7	**-947**	**-5,150**	**-5,458**	**-262**	**-516**	369	185	**-302**	419
50%	341	56	133	**-1,309**	**-1,482**	**-3,603**	**-244**	**-156**	485	**-205**	263	323
60%	446	215	**-501**	**-528**	1,631	**-3,458**	180	**-104**	774	**-728**	423	**-25**
70%	691	298	**-272**	282	688	**-1,474**	248	336	828	**-1,062**	549	292
80%	921	438	386	200	**-273**	**-328**	288	599	1,736	**-925**	711	953
90%	487	1,042	57	478	505	137	860	1,044	1,700	**-470**	1,388	934
Long Term												
Full Simulation Period[a]	**-472**	**-924**	**-228**	**-1,078**	**-1,251**	**-2,560**	**-667**	**-1,093**	**-334**	**-205**	230	725
Water Year Types[b]												
Wet (31%)	**-1,999**	**-3,389**	**-515**	**-2,410**	**-2,904**	**-4,403**	**-1,561**	**-4,820**	**-3,756**	**-737**	**-284**	1,191
Above Normal (25%)	102	**-470**	44	**-2,258**	**-2,136**	**-3,910**	**-3,807**	**-2,026**	**-135**	1,008	221	1,079
Below Normal (6%)	**-958**	296	765	**-178**	**-5,150**	**-3,345**	163	**-1,614**	599	**-181**	34	842
Dry (13%)	230	**-648**	**-378**	**-198**	**-554**	**-2,415**	230	366	420	894	**-280**	**-249**
Critical (25%)	56	402	**-186**	**-424**	649	**-505**	422	1,200	1,532	**-1,149**	1,092	967

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-25-12. Sutter and Steamboat Slough, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	7,316	16,211	30,278	27,972	34,467	32,221	21,322	11,503	6,749	7,955	6,214	6,064
20%	4,375	13,021	10,134	22,825	31,987	25,460	9,694	6,247	4,615	7,212	5,672	4,336
30%	3,839	5,857	7,896	17,005	17,872	20,608	7,920	5,725	4,312	7,064	5,295	4,222
40%	3,432	3,968	7,015	9,630	14,771	15,312	6,018	5,282	4,257	6,846	5,217	3,846
50%	3,269	3,727	6,220	9,430	10,305	12,649	5,787	4,568	4,130	6,845	4,500	3,392
60%	3,117	3,499	5,672	7,901	6,226	11,704	5,150	4,207	3,818	6,704	4,127	3,300
70%	2,739	3,378	4,776	5,692	5,554	8,334	4,814	3,512	3,709	6,408	3,895	2,903
80%	2,484	3,151	3,962	5,228	5,422	6,058	4,570	2,944	2,762	5,446	3,648	2,173
90%	2,113	2,517	3,579	4,196	3,345	4,168	3,801	2,449	2,651	4,975	2,892	2,140
Long Term												
Full Simulation Period[a]	3,970	7,156	10,749	13,133	15,109	16,103	9,407	6,382	5,330	6,746	4,600	4,046
Water Year Types[b]												
Wet (31%)	5,950	15,389	26,240	22,079	30,162	29,992	19,094	12,707	9,971	8,097	5,103	6,907
Above Normal (25%)	2,589	4,259	7,233	27,951	26,532	23,098	11,330	7,047	4,864	6,070	4,503	4,154
Below Normal (6%)	4,375	3,496	3,582	9,313	14,771	12,839	6,018	6,247	4,615	7,212	5,264	3,423
Dry (13%)	3,295	5,834	6,231	6,471	7,523	12,038	6,044	4,454	4,221	6,891	5,678	3,525
Critical (25%)	3,398	3,517	4,809	6,142	4,633	6,097	4,255	2,624	2,833	5,725	3,243	2,256

Alternative 8 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,030	12,442	29,303	25,633	31,437	28,930	18,985	8,896	5,029	5,593	4,517	8,160
20%	3,937	8,964	8,535	22,518	28,529	22,455	10,733	6,769	4,622	4,992	4,473	6,799
30%	3,635	5,508	7,877	15,167	16,784	18,088	7,634	6,250	4,603	4,686	4,450	5,141
40%	3,431	3,752	6,974	9,980	10,406	10,959	7,163	5,289	4,596	4,663	4,434	3,362
50%	3,247	3,720	6,358	9,011	9,173	10,334	7,078	4,981	4,556	4,588	4,400	3,241
60%	3,177	3,704	5,018	8,078	8,790	8,814	6,562	4,838	4,513	4,501	4,372	3,133
70%	3,058	3,657	4,439	6,368	7,036	7,787	5,963	4,576	4,491	4,467	4,299	3,116
80%	2,685	3,591	4,271	5,834	5,303	6,931	5,566	4,387	4,283	4,419	4,243	3,104
90%	2,104	3,295	3,579	4,645	4,316	5,981	4,959	3,640	4,212	4,368	4,064	3,091
Long Term												
Full Simulation Period[a]	3,226	6,378	10,531	12,591	14,381	14,412	9,708	6,257	4,961	4,759	4,311	4,599
Water Year Types[b]												
Wet (31%)	3,698	12,768	25,858	20,400	27,142	25,577	18,094	9,593	6,549	5,529	4,529	8,034
Above Normal (25%)	2,884	3,330	7,302	26,387	24,738	19,733	9,042	5,953	4,612	4,530	4,444	5,141
Below Normal (6%)	3,287	3,752	4,319	9,980	12,620	10,193	7,082	6,769	4,844	4,486	4,423	3,362
Dry (13%)	2,999	5,250	5,881	6,812	7,872	11,360	7,808	5,175	4,414	4,555	4,382	3,172
Critical (25%)	3,155	3,914	4,524	5,969	5,588	6,636	5,311	4,474	4,291	4,452	4,004	3,022

Alternative 8 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-3,286	-3,769	-975	-2,338	-3,029	-3,291	-2,338	-2,607	-1,720	-2,362	-1,697	2,095
20%	-438	-4,058	-1,599	-307	-3,458	-3,005	1,039	522	7	-2,220	-1,199	2,463
30%	-204	-349	-20	-1,837	-1,088	-2,519	-287	525	291	-2,378	-845	918
40%	0	-216	-40	350	-4,365	-4,353	1,145	7	339	-2,182	-784	-484
50%	-22	-7	139	-419	-1,132	-2,315	1,291	413	427	-2,257	-100	-151
60%	60	205	-654	177	2,564	-2,889	1,412	631	695	-2,203	245	-168
70%	319	279	-337	676	1,481	-547	1,149	1,064	782	-1,940	404	213
80%	202	441	309	607	-119	872	997	1,443	1,521	-1,027	595	932
90%	-9	778	1	448	971	1,813	1,158	1,191	1,561	-608	1,171	952
Long Term												
Full Simulation Period[a]	-744	-777	-217	-542	-728	-1,691	302	-124	-368	-1,987	-290	552
Water Year Types[b]												
Wet (31%)	-2,252	-2,621	-382	-1,678	-3,020	-4,415	-1,000	-3,115	-3,422	-2,568	-574	1,127
Above Normal (25%)	295	-929	69	-1,565	-1,794	-3,365	-2,288	-1,094	-253	-1,540	-59	987
Below Normal (6%)	-1,088	255	737	666	-2,151	-2,646	1,064	522	229	-2,726	-841	-61
Dry (13%)	-296	-584	-349	342	349	-678	1,764	721	193	-2,335	-1,296	-353
Critical (25%)	-243	397	-285	-173	955	539	1,056	1,851	1,459	-1,273	761	766

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-25-13. Sutter and Steamboat Slough, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	7,316	16,211	30,278	27,972	34,467	32,221	21,322	11,503	6,749	7,955	6,214	6,064
20%	4,375	13,021	10,134	22,825	31,987	25,460	9,694	6,247	4,615	7,212	5,672	4,336
30%	3,839	5,857	7,896	17,005	17,872	20,608	7,920	5,725	4,312	7,064	5,295	4,222
40%	3,432	3,968	7,015	9,630	14,771	15,312	6,018	5,282	4,257	6,846	5,217	3,846
50%	3,269	3,727	6,220	9,430	10,305	12,649	5,787	4,568	4,130	6,845	4,500	3,392
60%	3,117	3,499	5,672	7,901	6,226	11,704	5,150	4,207	3,818	6,704	4,127	3,300
70%	2,739	3,378	4,776	5,692	5,554	8,334	4,814	3,512	3,709	6,408	3,895	2,903
80%	2,484	3,151	3,962	5,228	5,422	6,058	4,570	2,944	2,762	5,446	3,648	2,173
90%	2,113	2,517	3,579	4,196	3,345	4,168	3,801	2,449	2,651	4,975	2,892	2,140
Long Term												
Full Simulation Period[a]	3,970	7,156	10,749	13,133	15,109	16,103	9,407	6,382	5,330	6,746	4,600	4,046
Water Year Types[b]												
Wet (31%)	5,950	15,389	26,240	22,079	30,162	29,992	19,094	12,707	9,971	8,097	5,103	6,907
Above Normal (25%)	2,589	4,259	7,233	27,951	26,532	23,098	11,330	7,047	4,864	6,070	4,503	4,154
Below Normal (6%)	4,375	3,496	3,582	9,313	14,771	12,839	6,018	6,247	4,615	7,212	5,264	3,423
Dry (13%)	3,295	5,834	6,231	6,471	7,523	12,038	6,044	4,454	4,221	6,891	5,678	3,525
Critical (25%)	3,398	3,517	4,809	6,142	4,633	6,097	4,255	2,624	2,833	5,725	3,243	2,256

Alternative 9 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	6,765	13,497	33,068	31,721	38,126	35,153	21,999	9,389	6,752	8,944	6,964	12,550
20%	5,554	10,171	8,073	27,785	35,732	28,670	9,856	6,919	6,131	8,757	6,876	10,004
30%	5,333	7,779	7,744	17,606	19,903	20,915	7,591	6,305	5,666	8,294	6,802	8,016
40%	4,771	5,845	7,151	9,815	12,585	13,183	6,374	5,891	5,628	7,431	6,609	5,059
50%	4,282	4,638	6,511	8,984	9,441	11,770	5,866	5,586	5,596	7,180	5,928	3,995
60%	3,924	4,231	6,143	7,636	6,505	9,504	5,660	5,011	5,522	6,900	5,195	3,756
70%	3,627	4,062	5,654	5,757	5,328	7,094	5,463	4,854	5,001	6,394	4,583	3,349
80%	3,412	3,888	4,706	5,228	4,937	5,637	5,273	3,778	4,572	5,553	4,069	3,247
90%	3,097	3,484	4,523	4,660	4,027	4,749	4,937	3,639	4,200	4,756	3,735	3,233
Long Term												
Full Simulation Period[a]	4,603	7,540	11,745	14,127	16,274	16,424	10,112	6,534	5,862	7,186	5,582	6,301
Water Year Types[b]												
Wet (31%)	6,118	14,511	29,244	24,481	33,464	31,561	20,898	10,298	8,151	7,715	6,419	12,164
Above Normal (25%)	2,972	4,577	7,386	31,222	30,592	24,803	10,199	5,969	5,575	8,905	6,767	8,016
Below Normal (6%)	5,300	6,623	5,754	9,319	12,585	11,557	6,374	5,011	6,131	7,018	5,652	5,059
Dry (13%)	4,384	5,898	6,100	6,348	7,385	11,068	6,610	6,483	5,539	7,525	6,094	3,777
Critical (25%)	4,079	4,645	5,203	6,190	4,642	6,220	4,997	4,095	4,351	5,837	4,015	3,194

Alternative 9 (LLT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-551**	**-2,714**	2,790	3,750	3,660	2,932	677	**-2,114**	3	989	750	6,485
20%	1,179	**-2,851**	**-2,061**	4,960	3,745	3,210	162	672	1,516	1,545	1,204	5,668
30%	1,493	1,922	**-152**	602	2,031	308	**-330**	580	1,354	1,229	1,507	3,793
40%	1,340	1,877	136	186	**-2,185**	**-2,129**	356	609	1,371	585	1,392	1,213
50%	1,012	911	291	**-446**	**-864**	**-879**	79	1,018	1,466	334	1,427	604
60%	807	733	471	**-265**	279	**-2,200**	509	804	1,704	196	1,069	455
70%	888	685	878	65	**-227**	**-1,241**	649	1,341	1,292	**-13**	689	446
80%	929	737	744	0	**-486**	**-422**	704	834	1,810	108	421	1,074
90%	984	968	945	464	682	581	1,136	1,190	1,549	**-219**	843	1,093
Long Term												
Full Simulation Period[a]	633	384	996	994	1,165	321	705	152	533	440	982	2,255
Water Year Types[b]												
Wet (31%)	168	**-878**	3,003	2,403	3,301	1,569	1,804	**-2,409**	**-1,820**	**-382**	1,316	5,257
Above Normal (25%)	383	318	153	3,271	4,060	1,705	**-1,131**	**-1,078**	710	2,835	2,264	3,862
Below Normal (6%)	925	3,127	2,172	6	**-2,185**	**-1,281**	356	**-1,236**	1,516	**-194**	388	1,636
Dry (13%)	1,089	64	**-131**	**-123**	**-138**	**-970**	566	2,028	1,318	634	416	252
Critical (25%)	681	1,128	394	48	9	122	742	1,471	1,519	112	772	937

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-25-14. Sutter and Steamboat Slough, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5,017	12,304	31,638	30,994	35,732	33,080	22,071	8,900	5,667	9,754	5,817	10,800
20%	4,568	9,343	8,517	26,981	34,045	28,088	10,393	6,159	5,342	9,255	5,617	9,020
30%	4,177	6,726	8,106	18,353	20,476	21,847	7,564	5,323	4,601	8,835	5,438	6,743
40%	3,957	5,327	6,829	10,107	12,770	15,009	5,911	4,709	4,345	8,156	5,192	3,717
50%	3,827	4,794	6,601	9,489	10,091	12,418	5,379	4,339	4,146	7,523	4,679	3,036
60%	3,743	3,471	5,569	7,997	6,879	10,291	5,288	3,746	3,899	6,680	4,525	2,759
70%	3,524	3,136	5,111	6,764	5,090	7,295	4,839	3,592	3,770	6,407	3,075	2,399
80%	2,889	2,735	3,749	5,617	4,376	5,387	4,637	3,200	3,371	5,083	2,731	2,301
90%	2,443	2,535	2,789	4,841	3,371	4,186	4,025	2,530	2,902	4,220	2,672	2,194
Long Term												
Full Simulation Period[a]	3,890	6,712	10,990	14,157	15,647	16,179	9,595	5,510	4,687	7,207	4,393	5,121
Water Year Types[b]												
Wet (31%)	4,827	13,357	27,600	24,283	31,855	30,161	19,964	9,382	6,960	7,839	5,229	10,606
Above Normal (25%)	2,888	3,730	7,666	29,745	29,486	25,004	10,587	5,434	4,727	8,962	5,474	6,743
Below Normal (6%)	4,568	5,327	5,252	9,838	12,770	11,892	5,911	4,326	5,342	6,283	4,589	3,717
Dry (13%)	3,778	5,728	5,855	6,382	7,603	11,533	6,008	5,016	4,180	8,118	5,133	2,801
Critical (25%)	3,497	3,651	4,287	6,905	4,154	6,037	4,511	3,076	3,127	5,455	2,661	2,219

Alternative 1A,1B,1C (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,054	9,059	26,414	25,130	31,021	28,641	17,424	7,088	6,275	8,374	4,961	4,362
20%	7,509	8,913	8,862	19,850	28,136	22,566	8,672	6,056	6,135	7,885	4,478	4,095
30%	5,685	6,212	7,990	15,033	13,822	17,287	6,906	5,610	5,490	7,069	4,056	3,695
40%	5,134	3,845	7,595	9,153	9,019	9,642	6,392	5,368	5,230	5,619	3,904	3,542
50%	3,951	3,721	6,953	8,387	8,346	8,544	5,802	4,803	4,889	5,511	3,625	3,408
60%	3,738	3,693	6,363	7,723	6,671	8,052	5,770	4,679	4,628	5,138	3,523	3,385
70%	3,577	3,628	6,079	6,448	5,877	6,951	5,511	4,597	4,350	4,760	3,451	3,308
80%	3,130	3,610	4,732	5,739	5,242	6,055	5,216	3,930	3,805	4,068	3,376	3,167
90%	2,981	3,269	3,888	4,593	4,716	4,721	4,980	3,058	3,625	3,897	3,307	3,108
Long Term												
Full Simulation Period[a]	5,281	6,032	10,636	11,996	13,644	13,732	8,939	5,535	5,062	6,078	4,101	3,611
Water Year Types[b]												
Wet (31%)	4,363	12,187	24,156	19,728	26,642	25,889	17,545	8,002	6,377	6,739	3,665	3,668
Above Normal (25%)	5,233	3,346	7,845	23,266	24,534	20,142	7,762	5,038	5,265	6,545	3,817	3,477
Below Normal (6%)	9,803	3,845	5,906	9,153	9,019	8,052	5,800	4,679	5,135	3,831	3,398	3,343
Dry (13%)	3,814	4,829	6,624	7,221	6,804	9,736	6,542	5,776	5,210	7,409	5,571	3,804
Critical (25%)	6,304	3,583	5,092	5,690	5,286	5,774	5,071	3,740	3,797	4,747	3,526	3,518

Alternative 1A,1B,1C (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,036	-3,245	-5,225	-5,865	-4,711	-4,440	-4,647	-1,812	608	-1,380	-856	-6,438
20%	2,942	-429	345	-7,131	-5,909	-5,523	-1,721	-103	793	-1,370	-1,139	-4,925
30%	1,508	-514	-115	-3,320	-6,653	-4,560	-658	288	889	-1,766	-1,382	-3,048
40%	1,177	-1,482	766	-954	-3,751	-5,367	481	660	886	-2,536	-1,288	-175
50%	124	-1,073	352	-1,102	-1,745	-3,874	422	464	742	-2,012	-1,054	372
60%	-5	223	794	-274	-208	-2,239	482	933	730	-1,543	-1,002	627
70%	53	491	968	-316	787	-344	672	1,004	580	-1,647	376	910
80%	241	874	983	122	867	668	579	730	434	-1,015	645	866
90%	539	734	1,099	-248	1,345	535	954	528	723	-323	634	915
Long Term												
Full Simulation Period[a]	1,390	-679	-354	-2,161	-2,003	-2,447	-656	25	375	-1,128	-293	-1,510
Water Year Types[b]												
Wet (31%)	-464	-1,170	-3,444	-4,555	-5,213	-4,272	-2,419	-1,380	-584	-1,100	-1,564	-6,939
Above Normal (25%)	2,344	-384	179	-6,479	-4,952	-4,863	-2,826	-396	538	-2,417	-1,656	-3,266
Below Normal (6%)	5,236	-1,482	655	-684	-3,751	-3,840	-110	353	-207	-2,451	-1,192	-374
Dry (13%)	36	-899	768	839	-799	-1,796	534	760	1,029	-709	439	1,003
Critical (25%)	2,807	-68	804	-1,215	1,131	-262	561	664	670	-707	865	1,299

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-25-15. Sutter and Steamboat Slough, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5,017	12,304	31,638	30,994	35,732	33,080	22,071	8,900	5,667	9,754	5,817	10,800
20%	4,568	9,343	8,517	26,981	34,045	28,088	10,393	6,159	5,342	9,255	5,617	9,020
30%	4,177	6,726	8,106	18,353	20,476	21,847	7,564	5,323	4,601	8,835	5,438	6,743
40%	3,957	5,327	6,829	10,107	12,770	15,009	5,911	4,709	4,345	8,156	5,192	3,717
50%	3,827	4,794	6,601	9,489	10,091	12,418	5,379	4,339	4,146	7,523	4,679	3,036
60%	3,743	3,471	5,569	7,997	6,879	10,291	5,288	3,746	3,899	6,680	4,525	2,759
70%	3,524	3,136	5,111	6,764	5,090	7,295	4,839	3,592	3,770	6,407	3,075	2,399
80%	2,889	2,735	3,749	5,617	4,376	5,387	4,637	3,200	3,371	5,083	2,731	2,301
90%	2,443	2,535	2,789	4,841	3,371	4,186	4,025	2,530	2,902	4,220	2,672	2,194
Long Term												
Full Simulation Period[a]	3,890	6,712	10,990	14,157	15,647	16,179	9,595	5,510	4,687	7,207	4,393	5,121
Water Year Types[b]												
Wet (31%)	4,827	13,357	27,600	24,283	31,855	30,161	19,964	9,382	6,960	7,839	5,229	10,606
Above Normal (25%)	2,888	3,730	7,666	29,745	29,486	25,004	10,587	5,434	4,727	8,962	5,474	6,743
Below Normal (6%)	4,568	5,327	5,252	9,838	12,770	11,892	5,911	4,326	5,342	6,283	4,589	3,717
Dry (13%)	3,778	5,728	5,855	6,382	7,603	11,533	6,008	5,016	4,180	8,118	5,133	2,801
Critical (25%)	3,497	3,651	4,287	6,905	4,154	6,037	4,511	3,076	3,127	5,455	2,661	2,219

Alternative 2A,2B,2C (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5,363	9,006	26,155	25,335	30,501	28,591	17,915	7,437	6,377	8,960	5,463	8,390
20%	5,042	8,930	8,217	20,530	28,723	22,981	9,001	6,341	6,123	7,593	4,791	7,268
30%	4,487	5,481	7,988	14,674	13,966	16,088	6,174	5,644	5,628	7,435	4,287	5,520
40%	4,130	3,880	7,181	8,959	9,267	9,887	5,864	5,301	5,303	7,258	4,153	5,138
50%	4,119	3,791	6,735	8,024	8,454	8,846	5,599	5,022	4,954	6,424	3,715	4,320
60%	3,906	3,690	6,019	7,533	6,618	8,353	5,248	4,533	4,565	5,700	3,656	3,438
70%	3,832	3,684	5,738	6,761	5,521	6,472	5,101	4,050	4,247	4,701	3,598	3,320
80%	3,423	3,651	5,566	5,779	5,071	5,626	5,006	3,842	3,824	4,228	3,467	3,151
90%	2,618	3,331	4,408	5,157	3,703	4,851	4,792	3,065	3,745	3,945	3,319	3,113
Long Term												
Full Simulation Period[a]	4,170	5,920	10,579	12,114	13,383	13,537	8,777	5,564	5,154	6,431	4,161	5,034
Water Year Types[b]												
Wet (31%)	4,309	10,669	24,124	19,820	26,835	25,731	17,562	7,838	6,578	6,973	3,918	8,311
Above Normal (25%)	4,690	3,378	7,682	23,259	23,629	20,434	7,478	5,104	4,671	8,716	4,826	5,520
Below Normal (6%)	3,906	3,848	5,566	9,144	9,267	8,420	5,864	4,533	5,741	3,862	3,467	3,327
Dry (13%)	3,629	5,323	6,315	6,149	6,856	8,783	6,298	6,005	5,396	7,241	5,000	3,894
Critical (25%)	4,336	4,030	5,316	6,858	4,568	5,850	4,834	3,784	3,896	4,948	3,557	3,471

Alternative 2A,2B,2C (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	346	-3,299	-5,483	-5,659	-5,232	-4,489	-4,156	-1,463	710	-795	-354	-2,410
20%	475	-412	-300	-6,451	-5,322	-5,107	-1,393	182	781	-1,662	-825	-1,752
30%	310	-1,245	-117	-3,679	-6,510	-5,759	-1,390	321	1,027	-1,400	-1,151	-1,223
40%	173	-1,447	352	-1,148	-3,503	-5,122	-47	593	959	-898	-1,039	1,421
50%	292	-1,003	135	-1,465	-1,637	-3,572	219	684	808	-1,099	-964	1,284
60%	163	219	449	-464	-262	-1,939	-39	787	666	-980	-869	679
70%	308	547	628	-4	430	-823	263	458	477	-1,706	522	921
80%	534	916	1,817	162	695	239	369	642	453	-855	735	850
90%	175	796	1,619	316	331	665	767	536	842	-275	646	919
Long Term												
Full Simulation Period[a]	279	-791	-411	-2,043	-2,264	-2,641	-818	54	466	-776	-232	-87
Water Year Types[b]												
Wet (31%)	-518	-2,688	-3,476	-4,463	-5,020	-4,430	-2,401	-1,544	-382	-866	-1,311	-2,295
Above Normal (25%)	1,802	-352	16	-6,486	-5,857	-4,570	-3,109	-330	-56	-247	-648	-1,223
Below Normal (6%)	-662	-1,480	314	-694	-3,503	-3,472	-47	207	399	-2,421	-1,123	-391
Dry (13%)	-148	-406	459	-233	-747	-2,750	289	989	1,215	-877	-132	1,093
Critical (25%)	839	379	1,028	-47	413	-186	324	708	768	-506	896	1,252

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-25-16. Sutter and Steamboat Slough, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5,017	12,304	31,638	30,994	35,732	33,080	22,071	8,900	5,667	9,754	5,817	10,800
20%	4,568	9,343	8,517	26,981	34,045	28,088	10,393	6,159	5,342	9,255	5,617	9,020
30%	4,177	6,726	8,106	18,353	20,476	21,847	7,564	5,323	4,601	8,835	5,438	6,743
40%	3,957	5,327	6,829	10,107	12,770	15,009	5,911	4,709	4,345	8,156	5,192	3,717
50%	3,827	4,794	6,601	9,489	10,091	12,418	5,379	4,339	4,146	7,523	4,679	3,036
60%	3,743	3,471	5,569	7,997	6,879	10,291	5,288	3,746	3,899	6,680	4,525	2,759
70%	3,524	3,136	5,111	6,764	5,090	7,295	4,839	3,592	3,770	6,407	3,075	2,399
80%	2,889	2,735	3,749	5,617	4,376	5,387	4,637	3,200	3,371	5,083	2,731	2,301
90%	2,443	2,535	2,789	4,841	3,371	4,186	4,025	2,530	2,902	4,220	2,672	2,194
Long Term												
Full Simulation Period[a]	3,890	6,712	10,990	14,157	15,647	16,179	9,595	5,510	4,687	7,207	4,393	5,121
Water Year Types[b]												
Wet (31%)	4,827	13,357	27,600	24,283	31,855	30,161	19,964	9,382	6,960	7,839	5,229	10,606
Above Normal (25%)	2,888	3,730	7,666	29,745	29,486	25,004	10,587	5,434	4,727	8,962	5,474	6,743
Below Normal (6%)	4,568	5,327	5,252	9,838	12,770	11,892	5,911	4,326	5,342	6,283	4,589	3,717
Dry (13%)	3,778	5,728	5,855	6,382	7,603	11,533	6,008	5,016	4,180	8,118	5,133	2,801
Critical (25%)	3,497	3,651	4,287	6,905	4,154	6,037	4,511	3,076	3,127	5,455	2,661	2,219

Alternative 3 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,068	11,790	30,215	27,480	33,280	30,619	19,041	8,804	7,594	8,706	5,146	4,413
20%	7,767	8,849	9,016	24,023	31,088	24,612	9,351	6,141	6,135	8,195	4,430	4,288
30%	6,202	4,327	8,196	15,634	16,680	18,352	7,094	5,605	5,236	6,958	4,271	3,977
40%	5,173	3,890	7,023	9,311	10,384	10,537	6,224	5,300	5,124	6,265	3,812	3,799
50%	4,432	3,781	6,961	8,867	8,732	9,883	5,758	4,826	4,858	5,331	3,616	3,456
60%	3,865	3,719	6,358	7,557	6,767	8,520	5,660	4,701	4,600	4,904	3,509	3,382
70%	3,753	3,702	6,005	5,994	5,850	7,302	5,430	4,636	4,242	4,810	3,453	3,307
80%	3,131	3,655	4,483	5,868	5,079	6,159	5,214	3,928	4,057	4,531	3,382	3,232
90%	2,975	3,562	3,934	5,421	4,147	4,728	4,964	3,064	3,611	3,876	3,295	3,129
Long Term												
Full Simulation Period[a]	5,476	6,334	11,193	12,945	14,480	14,533	9,363	5,850	5,319	6,162	4,022	3,754
Water Year Types[b]												
Wet (31%)	4,503	13,030	26,529	21,211	28,946	27,268	18,757	8,876	7,293	6,715	3,629	4,107
Above Normal (25%)	6,137	3,742	7,587	26,687	26,527	21,164	8,732	5,044	5,661	6,830	3,946	3,620
Below Normal (6%)	7,767	3,773	5,868	9,311	10,384	9,293	5,787	4,701	5,124	3,776	3,372	3,342
Dry (13%)	3,757	5,010	6,666	6,996	7,202	10,528	6,640	6,126	5,045	7,581	5,098	3,722
Critical (25%)	6,907	3,585	5,052	6,320	4,729	5,946	4,995	3,760	3,863	4,795	3,635	3,635

Alternative 3 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,051	-515	-1,423	-3,514	-2,453	-2,462	-3,030	-96	1,927	-1,049	-670	-6,387
20%	3,200	-493	499	-2,958	-2,957	-3,477	-1,042	-19	793	-1,061	-1,187	-4,733
30%	2,025	-2,400	90	-2,719	-3,796	-3,496	-470	282	635	-1,877	-1,167	-2,767
40%	1,216	-1,437	194	-796	-2,385	-4,472	313	591	779	-1,891	-1,381	82
50%	605	-1,013	360	-622	-1,359	-2,535	379	487	711	-2,192	-1,063	420
60%	121	248	789	-440	-113	-1,771	372	955	701	-1,776	-1,017	623
70%	229	565	895	-770	759	8	591	1,044	472	-1,597	378	908
80%	242	920	734	252	703	772	578	728	686	-552	651	931
90%	532	1,027	1,145	580	775	541	938	534	709	-343	622	935
Long Term												
Full Simulation Period[a]	1,585	-378	202	-1,212	-1,167	-1,645	-232	340	632	-1,045	-372	-1,366
Water Year Types[b]												
Wet (31%)	-324	-327	-1,071	-3,072	-2,909	-2,892	-1,207	-506	332	-1,123	-1,599	-6,499
Above Normal (25%)	3,248	13	-79	-3,058	-2,959	-3,840	-1,856	-390	934	-2,133	-1,528	-3,123
Below Normal (6%)	3,200	-1,554	616	-526	-2,385	-2,599	-123	375	-218	-2,506	-1,218	-375
Dry (13%)	-21	-718	811	614	-401	-1,005	632	1,110	864	-537	-35	920
Critical (25%)	3,409	-67	764	-585	575	-91	484	684	736	-660	973	1,415

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-25-17. Sutter and Steamboat Slough, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5,017	12,304	31,638	30,994	35,732	33,080	22,071	8,900	5,667	9,754	5,817	10,800
20%	4,568	9,343	8,517	26,981	34,045	28,088	10,393	6,159	5,342	9,255	5,617	9,020
30%	4,177	6,726	8,106	18,353	20,476	21,847	7,564	5,323	4,601	8,835	5,438	6,743
40%	3,957	5,327	6,829	10,107	12,770	15,009	5,911	4,709	4,345	8,156	5,192	3,717
50%	3,827	4,794	6,601	9,489	10,091	12,418	5,379	4,339	4,146	7,523	4,679	3,036
60%	3,743	3,471	5,569	7,997	6,879	10,291	5,288	3,746	3,899	6,680	4,525	2,759
70%	3,524	3,136	5,111	6,764	5,090	7,295	4,839	3,592	3,770	6,407	3,075	2,399
80%	2,889	2,735	3,749	5,617	4,376	5,387	4,637	3,200	3,371	5,083	2,731	2,301
90%	2,443	2,535	2,789	4,841	3,371	4,186	4,025	2,530	2,902	4,220	2,672	2,194
Long Term												
Full Simulation Period[a]	3,890	6,712	10,990	14,157	15,647	16,179	9,595	5,510	4,687	7,207	4,393	5,121
Water Year Types[b]												
Wet (31%)	4,827	13,357	27,600	24,283	31,855	30,161	19,964	9,382	6,960	7,839	5,229	10,606
Above Normal (25%)	2,888	3,730	7,666	29,745	29,486	25,004	10,587	5,434	4,727	8,962	5,474	6,743
Below Normal (6%)	4,568	5,327	5,252	9,838	12,770	11,892	5,911	4,326	5,342	6,283	4,589	3,717
Dry (13%)	3,778	5,728	5,855	6,382	7,603	11,533	6,008	5,016	4,180	8,118	5,133	2,801
Critical (25%)	3,497	3,651	4,287	6,905	4,154	6,037	4,511	3,076	3,127	5,455	2,661	2,219

Alternative 4 H1 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5,654	11,168	28,620	26,031	32,141	28,931	17,619	7,764	5,747	10,150	5,827	4,820
20%	5,102	8,565	8,968	22,463	29,478	23,039	9,062	6,343	5,578	7,987	5,046	4,517
30%	4,825	3,744	8,030	14,654	15,012	18,042	6,064	5,585	5,407	7,630	4,562	3,996
40%	4,446	3,686	7,352	9,220	9,780	10,058	5,750	5,206	5,386	7,434	4,116	3,558
50%	3,939	3,680	7,081	8,756	8,359	8,851	5,619	4,678	4,835	5,987	4,069	3,403
60%	3,725	3,648	6,330	8,416	6,670	8,308	5,302	4,499	4,704	5,032	3,651	3,382
70%	3,489	3,628	5,414	7,595	5,434	6,347	5,203	4,050	4,202	4,837	3,558	3,350
80%	3,187	3,613	5,211	7,291	5,074	5,598	4,969	3,827	3,783	4,194	3,401	3,257
90%	2,801	3,342	4,331	5,542	4,074	4,818	4,724	3,041	3,605	3,865	3,314	3,212
Long Term												
Full Simulation Period[a]	4,160	5,979	10,938	12,763	13,872	13,864	8,750	5,513	4,975	6,552	4,375	3,841
Water Year Types[b]												
Wet (31%)	3,892	12,085	25,337	20,101	27,671	26,066	17,532	7,913	6,241	7,516	4,219	3,763
Above Normal (25%)	4,343	3,348	7,677	25,569	25,250	20,336	7,406	4,973	4,445	8,923	4,799	3,662
Below Normal (6%)	5,702	3,743	5,494	9,220	9,780	8,661	5,768	4,499	5,386	3,719	3,401	3,352
Dry (13%)	3,418	4,894	6,412	6,544	6,816	9,781	6,300	5,845	5,292	7,549	5,529	4,558
Critical (25%)	4,587	3,464	5,431	7,455	4,745	5,822	4,818	3,748	3,839	4,602	3,602	3,497

Alternative 4 H1 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	636	**-1,136**	**-3,019**	**-4,964**	**-3,591**	**-4,150**	**-4,452**	**-1,136**	80	396	11	**-5,980**
20%	534	**-777**	451	**-4,518**	**-4,567**	**-5,049**	**-1,331**	183	236	**-1,269**	**-571**	**-4,504**
30%	649	**-2,982**	**-76**	**-3,698**	**-5,464**	**-3,805**	**-1,500**	263	806	**-1,204**	**-876**	**-2,748**
40%	489	**-1,642**	522	**-887**	**-2,990**	**-4,950**	**-161**	498	1,041	**-722**	**-1,076**	**-159**
50%	111	**-1,114**	480	**-732**	**-1,732**	**-3,567**	240	339	689	**-1,536**	**-610**	367
60%	**-18**	177	760	420	**-209**	**-1,984**	14	753	805	**-1,648**	**-875**	623
70%	**-35**	492	303	831	343	**-947**	365	458	432	**-1,570**	482	951
80%	298	877	1,462	1,674	698	211	332	627	412	**-889**	669	956
90%	359	807	1,542	701	702	632	699	511	703	**-355**	642	1,018
Long Term												
Full Simulation Period[a]	270	**-732**	**-53**	**-1,394**	**-1,775**	**-2,314**	**-846**	3	288	**-654**	**-18**	**-1,280**
Water Year Types[b]												
Wet (31%)	**-935**	**-1,272**	**-2,263**	**-4,183**	**-4,184**	**-4,094**	**-2,432**	**-1,470**	**-719**	**-322**	**-1,010**	**-6,843**
Above Normal (25%)	1,455	**-382**	11	**-4,176**	**-4,236**	**-4,668**	**-3,181**	**-461**	**-282**	**-39**	**-675**	**-3,081**
Below Normal (6%)	1,134	**-1,585**	242	**-617**	**-2,990**	**-3,231**	**-143**	173	44	**-2,564**	**-1,189**	**-365**
Dry (13%)	**-360**	**-835**	556	162	**-787**	**-1,752**	291	830	1,112	**-569**	397	1,757
Critical (25%)	1,090	**-187**	1,144	550	590	**-215**	308	672	712	**-853**	941	1,278

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-25-18. Sutter and Steamboat Slough, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5,017	12,304	31,638	30,994	35,732	33,080	22,071	8,900	5,667	9,754	5,817	10,800
20%	4,568	9,343	8,517	26,981	34,045	28,088	10,393	6,159	5,342	9,255	5,617	9,020
30%	4,177	6,726	8,106	18,353	20,476	21,847	7,564	5,323	4,601	8,835	5,438	6,743
40%	3,957	5,327	6,829	10,107	12,770	15,009	5,911	4,709	4,345	8,156	5,192	3,717
50%	3,827	4,794	6,601	9,489	10,091	12,418	5,379	4,339	4,146	7,523	4,679	3,036
60%	3,743	3,471	5,569	7,997	6,879	10,291	5,288	3,746	3,899	6,680	4,525	2,759
70%	3,524	3,136	5,111	6,764	5,090	7,295	4,839	3,592	3,770	6,407	3,075	2,399
80%	2,889	2,735	3,749	5,617	4,376	5,387	4,637	3,200	3,371	5,083	2,731	2,301
90%	2,443	2,535	2,789	4,841	3,371	4,186	4,025	2,530	2,902	4,220	2,672	2,194
Long Term												
Full Simulation Period[a]	3,890	6,712	10,990	14,157	15,647	16,179	9,595	5,510	4,687	7,207	4,393	5,121
Water Year Types[b]												
Wet (31%)	4,827	13,357	27,600	24,283	31,855	30,161	19,964	9,382	6,960	7,839	5,229	10,606
Above Normal (25%)	2,888	3,730	7,666	29,745	29,486	25,004	10,587	5,434	4,727	8,962	5,474	6,743
Below Normal (6%)	4,568	5,327	5,252	9,838	12,770	11,892	5,911	4,326	5,342	6,283	4,589	3,717
Dry (13%)	3,778	5,728	5,855	6,382	7,603	11,533	6,008	5,016	4,180	8,118	5,133	2,801
Critical (25%)	3,497	3,651	4,287	6,905	4,154	6,037	4,511	3,076	3,127	5,455	2,661	2,219

Alternative 4 H2 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	6,665	11,577	29,155	26,062	32,204	28,955	19,387	8,098	5,717	7,035	5,516	4,379
20%	5,942	9,024	9,273	22,340	29,480	23,056	11,083	7,482	5,198	6,736	5,034	4,214
30%	4,319	3,745	8,097	14,484	15,276	18,774	9,253	6,600	4,886	6,225	4,588	3,925
40%	4,065	3,727	7,932	8,427	10,259	10,096	6,773	5,939	4,731	5,813	4,026	3,540
50%	3,922	3,704	6,474	8,107	8,430	9,303	5,551	5,110	4,301	5,359	3,960	3,441
60%	3,824	3,660	5,028	7,835	6,434	8,299	5,250	4,705	4,204	4,916	3,733	3,405
70%	3,597	3,650	4,432	7,490	5,413	6,661	5,162	4,158	3,976	4,270	3,588	3,376
80%	3,138	3,576	4,240	6,102	5,050	5,596	4,880	3,650	3,693	4,058	3,400	3,354
90%	3,021	3,247	3,805	5,641	3,809	4,689	4,642	3,010	3,594	3,773	3,333	3,158
Long Term												
Full Simulation Period[a]	4,332	6,071	10,670	12,677	13,840	14,025	9,583	5,871	4,688	5,436	4,248	3,688
Water Year Types[b]												
Wet (31%)	4,095	12,274	25,611	20,054	27,442	26,012	19,365	8,630	5,766	5,777	4,183	3,799
Above Normal (25%)	4,646	3,287	8,054	26,129	25,536	20,575	11,037	6,738	4,297	5,172	4,606	3,441
Below Normal (6%)	3,390	3,738	4,395	9,169	10,367	9,514	5,800	4,705	5,594	3,822	3,400	3,363
Dry (13%)	3,475	4,972	6,010	6,253	6,792	10,021	6,129	5,644	4,817	6,586	5,030	3,695
Critical (25%)	5,269	3,567	4,745	7,236	4,612	5,922	4,695	3,732	3,699	4,671	3,701	3,758

Alternative 4 H2 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,647	-728	-2,483	-4,932	-3,528	-4,125	-2,684	-802	50	-2,720	-301	-6,421
20%	1,375	-319	756	-4,641	-4,565	-5,032	690	1,322	-144	-2,519	-583	-4,806
30%	142	-2,982	-9	-3,868	-5,199	-3,074	1,689	1,277	285	-2,610	-850	-2,819
40%	108	-1,601	1,103	-1,680	-2,511	-4,913	862	1,231	387	-2,343	-1,166	-177
50%	95	-1,090	-127	-1,382	-1,661	-3,114	171	772	155	-2,164	-719	405
60%	80	189	-541	-161	-445	-1,992	-38	960	305	-1,764	-792	646
70%	73	514	-679	726	322	-634	323	566	206	-2,138	513	977
80%	249	840	491	485	674	209	243	450	322	-1,026	669	1,053
90%	578	711	1,016	800	438	502	617	480	692	-446	660	964
Long Term												
Full Simulation Period[a]	441	-641	-320	-1,480	-1,807	-2,153	-12	361	1	-1,771	-145	-1,432
Water Year Types[b]												
Wet (31%)	-732	-1,082	-1,989	-4,229	-4,413	-4,149	-599	-753	-1,195	-2,061	-1,046	-6,807
Above Normal (25%)	1,758	-443	388	-3,616	-3,950	-4,429	450	1,304	-430	-3,791	-868	-3,302
Below Normal (6%)	-1,177	-1,590	-857	-668	-2,402	-2,378	-111	380	252	-2,461	-1,189	-355
Dry (13%)	-303	-757	155	-129	-811	-1,512	121	628	636	-1,532	-103	894
Critical (25%)	1,772	-84	458	331	458	-114	185	656	572	-783	1,040	1,539

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-25-19. Sutter and Steamboat Slough, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5,017	12,304	31,638	30,994	35,732	33,080	22,071	8,900	5,667	9,754	5,817	10,800
20%	4,568	9,343	8,517	26,981	34,045	28,088	10,393	6,159	5,342	9,255	5,617	9,020
30%	4,177	6,726	8,106	18,353	20,476	21,847	7,564	5,323	4,601	8,835	5,438	6,743
40%	3,957	5,327	6,829	10,107	12,770	15,009	5,911	4,709	4,345	8,156	5,192	3,717
50%	3,827	4,794	6,601	9,489	10,091	12,418	5,379	4,339	4,146	7,523	4,679	3,036
60%	3,743	3,471	5,569	7,997	6,879	10,291	5,288	3,746	3,899	6,680	4,525	2,759
70%	3,524	3,136	5,111	6,764	5,090	7,295	4,839	3,592	3,770	6,407	3,075	2,399
80%	2,889	2,735	3,749	5,617	4,376	5,387	4,637	3,200	3,371	5,083	2,731	2,301
90%	2,443	2,535	2,789	4,841	3,371	4,186	4,025	2,530	2,902	4,220	2,672	2,194
Long Term												
Full Simulation Period[a]	3,890	6,712	10,990	14,157	15,647	16,179	9,595	5,510	4,687	7,207	4,393	5,121
Water Year Types[b]												
Wet (31%)	4,827	13,357	27,600	24,283	31,855	30,161	19,964	9,382	6,960	7,839	5,229	10,606
Above Normal (25%)	2,888	3,730	7,666	29,745	29,486	25,004	10,587	5,434	4,727	8,962	5,474	6,743
Below Normal (6%)	4,568	5,327	5,252	9,838	12,770	11,892	5,911	4,326	5,342	6,283	4,589	3,717
Dry (13%)	3,778	5,728	5,855	6,382	7,603	11,533	6,008	5,016	4,180	8,118	5,133	2,801
Critical (25%)	3,497	3,651	4,287	6,905	4,154	6,037	4,511	3,076	3,127	5,455	2,661	2,219

Alternative 4 H3 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,954	11,229	27,902	25,932	31,560	28,877	17,612	7,734	5,794	10,160	5,786	8,145
20%	4,338	8,803	8,220	22,263	29,478	23,039	9,065	6,315	5,620	7,883	5,076	7,095
30%	4,078	5,428	8,025	14,971	15,044	16,742	6,073	5,588	5,530	7,526	4,529	5,305
40%	3,982	3,856	7,845	9,149	9,809	10,072	5,766	5,218	5,387	7,268	4,043	5,129
50%	3,827	3,747	7,205	8,622	8,421	8,853	5,320	4,948	4,772	5,609	3,703	4,504
60%	3,710	3,680	6,011	7,624	6,653	8,298	5,162	4,502	4,546	5,358	3,587	4,167
70%	3,467	3,635	5,700	6,709	5,508	6,406	5,029	4,036	4,181	4,601	3,522	3,385
80%	3,332	3,597	5,360	5,745	5,049	5,598	4,969	3,829	3,763	4,253	3,469	3,164
90%	2,915	3,322	3,926	5,140	3,748	4,816	4,766	3,050	3,585	3,832	3,383	3,077
Long Term												
Full Simulation Period[a]	4,007	6,161	10,830	12,473	13,708	13,615	8,742	5,549	4,974	6,460	4,235	5,019
Water Year Types[b]												
Wet (31%)	3,910	11,852	25,024	20,034	27,448	25,685	17,740	7,910	6,229	7,435	4,253	8,067
Above Normal (25%)	5,136	3,349	8,025	25,070	24,698	20,315	7,429	5,019	4,471	8,908	4,841	5,253
Below Normal (6%)	3,830	3,807	4,307	9,149	9,809	8,668	5,766	4,502	5,658	3,738	3,469	3,314
Dry (13%)	3,573	5,262	6,316	6,173	6,846	9,130	6,199	5,942	5,276	7,403	5,020	4,213
Critical (25%)	4,017	3,923	5,514	7,091	4,590	5,857	4,700	3,769	3,791	4,492	3,503	3,472

Alternative 4 H3 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-64	-1,075	-3,736	-5,063	-4,173	-4,204	-4,459	-1,166	127	406	-30	-2,655
20%	-229	-539	-297	-4,718	-4,567	-5,049	-1,328	156	278	-1,373	-541	-1,925
30%	-99	-1,298	-81	-3,381	-5,432	-5,105	-1,492	265	929	-1,309	-909	-1,438
40%	25	-1,472	1,016	-958	-2,960	-4,937	-145	509	1,042	-888	-1,150	1,412
50%	0	-1,047	604	-867	-1,670	-3,565	-60	610	625	-1,914	-976	1,468
60%	-33	210	441	-373	-226	-1,993	-126	756	647	-1,323	-938	1,408
70%	-56	499	589	-56	418	-889	191	444	411	-1,807	446	987
80%	443	861	1,611	128	674	211	332	629	392	-830	737	863
90%	472	787	1,137	299	377	630	741	521	683	-388	711	883
Long Term												
Full Simulation Period[a]	117	-551	-160	-1,684	-1,939	-2,563	-853	39	286	-746	-158	-102
Water Year Types[b]												
Wet (31%)	-916	-1,504	-2,576	-4,249	-4,407	-4,475	-2,224	-1,472	-732	-404	-975	-2,540
Above Normal (25%)	2,248	-381	359	-4,675	-4,789	-4,689	-3,158	-415	-256	-54	-633	-1,491
Below Normal (6%)	-738	-1,520	-944	-688	-2,960	-3,224	-145	176	316	-2,545	-1,121	-404
Dry (13%)	-205	-467	460	-209	-757	-2,402	191	927	1,096	-715	-113	1,412
Critical (25%)	520	272	1,227	186	435	-180	190	693	664	-963	841	1,253

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-25-20. Sutter and Steamboat Slough, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5,017	12,304	31,638	30,994	35,732	33,080	22,071	8,900	5,667	9,754	5,817	10,800
20%	4,568	9,343	8,517	26,981	34,045	28,088	10,393	6,159	5,342	9,255	5,617	9,020
30%	4,177	6,726	8,106	18,353	20,476	21,847	7,564	5,323	4,601	8,835	5,438	6,743
40%	3,957	5,327	6,829	10,107	12,770	15,009	5,911	4,709	4,345	8,156	5,192	3,717
50%	3,827	4,794	6,601	9,489	10,091	12,418	5,379	4,339	4,146	7,523	4,679	3,036
60%	3,743	3,471	5,569	7,997	6,879	10,291	5,288	3,746	3,899	6,680	4,525	2,759
70%	3,524	3,136	5,111	6,764	5,090	7,295	4,839	3,592	3,770	6,407	3,075	2,399
80%	2,889	2,735	3,749	5,617	4,376	5,387	4,637	3,200	3,371	5,083	2,731	2,301
90%	2,443	2,535	2,789	4,841	3,371	4,186	4,025	2,530	2,902	4,220	2,672	2,194
Long Term												
Full Simulation Period[a]	3,890	6,712	10,990	14,157	15,647	16,179	9,595	5,510	4,687	7,207	4,393	5,121
Water Year Types[b]												
Wet (31%)	4,827	13,357	27,600	24,283	31,855	30,161	19,964	9,382	6,960	7,839	5,229	10,606
Above Normal (25%)	2,888	3,730	7,666	29,745	29,486	25,004	10,587	5,434	4,727	8,962	5,474	6,743
Below Normal (6%)	4,568	5,327	5,252	9,838	12,770	11,892	5,911	4,326	5,342	6,283	4,589	3,717
Dry (13%)	3,778	5,728	5,855	6,382	7,603	11,533	6,008	5,016	4,180	8,118	5,133	2,801
Critical (25%)	3,497	3,651	4,287	6,905	4,154	6,037	4,511	3,076	3,127	5,455	2,661	2,219

Alternative 4 H4 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5,866	10,471	27,997	26,073	31,556	28,982	19,423	8,036	5,640	6,924	5,450	8,108
20%	5,294	8,807	8,226	22,440	29,488	23,058	11,082	7,437	5,137	6,459	5,074	6,714
30%	4,336	5,448	8,062	14,504	15,237	18,304	9,244	6,566	4,832	5,947	4,932	5,263
40%	4,110	3,798	7,734	8,423	10,030	10,078	6,843	5,880	4,677	5,570	4,204	4,580
50%	4,016	3,733	6,459	7,871	8,416	8,888	5,557	5,098	4,303	5,028	4,031	4,041
60%	3,883	3,644	5,728	7,318	6,478	8,300	5,250	4,705	4,214	4,622	3,970	4,022
70%	3,689	3,615	5,160	5,884	5,412	6,409	5,075	4,097	3,978	4,267	3,696	3,686
80%	3,342	3,597	4,485	5,318	5,048	5,599	4,794	3,653	3,794	4,137	3,632	3,608
90%	2,744	3,289	3,945	4,772	3,829	4,655	4,762	3,009	3,581	3,953	3,466	3,320
Long Term												
Full Simulation Period[a]	4,249	6,118	10,609	12,165	13,755	13,823	9,593	5,849	4,671	5,333	4,352	4,984
Water Year Types[b]												
Wet (31%)	4,578	11,623	25,071	20,011	27,446	25,789	19,389	8,578	5,767	5,752	4,317	7,956
Above Normal (25%)	5,023	3,312	7,947	25,926	24,899	20,451	11,080	6,676	4,300	5,174	4,606	5,263
Below Normal (6%)	3,883	3,769	5,238	9,209	10,030	8,684	5,783	4,705	5,440	3,861	3,423	3,393
Dry (13%)	3,574	5,196	5,962	6,182	6,797	9,850	6,020	5,632	4,760	6,094	5,038	3,745
Critical (25%)	4,289	4,044	4,897	5,761	4,657	5,805	4,782	3,736	3,716	4,746	3,914	3,804

Alternative 4 H4 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	849	-1,833	-3,641	-4,922	-4,176	-4,099	-2,648	-865	-27	-2,830	-367	-2,692
20%	727	-536	-291	-4,541	-4,557	-5,030	689	1,278	-205	-2,796	-542	-2,306
30%	160	-1,278	-43	-3,848	-5,239	-3,543	1,680	1,244	231	-2,887	-506	-1,480
40%	154	-1,529	905	-1,684	-2,739	-4,931	932	1,171	333	-2,586	-988	863
50%	189	-1,061	-142	-1,618	-1,675	-3,530	177	760	156	-2,495	-648	1,005
60%	140	173	159	-679	-401	-1,991	-38	959	315	-2,059	-556	1,263
70%	166	479	49	-880	322	-886	236	505	208	-2,140	621	1,287
80%	453	862	736	-299	672	212	157	453	423	-946	901	1,307
90%	302	753	1,156	-69	458	469	736	479	679	-266	794	1,126
Long Term												
Full Simulation Period[a]	358	-594	-381	-1,992	-1,891	-2,355	-2	338	-17	-1,874	-42	-137
Water Year Types[b]												
Wet (31%)	-248	-1,734	-2,529	-4,272	-4,410	-4,372	-575	-804	-1,193	-2,087	-912	-2,651
Above Normal (25%)	2,134	-417	281	-3,819	-4,587	-4,554	492	1,242	-427	-3,789	-868	-1,480
Below Normal (6%)	-684	-1,558	-13	-628	-2,739	-3,209	-128	379	98	-2,422	-1,167	-324
Dry (13%)	-204	-532	107	-200	-806	-1,682	12	617	579	-2,023	-95	943
Critical (25%)	791	393	609	-1,144	503	-231	272	661	589	-709	1,253	1,585

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-25-21. Sutter and Steamboat Slough, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5,017	12,304	31,638	30,994	35,732	33,080	22,071	8,900	5,667	9,754	5,817	10,800
20%	4,568	9,343	8,517	26,981	34,045	28,088	10,393	6,159	5,342	9,255	5,617	9,020
30%	4,177	6,726	8,106	18,353	20,476	21,847	7,564	5,323	4,601	8,835	5,438	6,743
40%	3,957	5,327	6,829	10,107	12,770	15,009	5,911	4,709	4,345	8,156	5,192	3,717
50%	3,827	4,794	6,601	9,489	10,091	12,418	5,379	4,339	4,146	7,523	4,679	3,036
60%	3,743	3,471	5,569	7,997	6,879	10,291	5,288	3,746	3,899	6,680	4,525	2,759
70%	3,524	3,136	5,111	6,764	5,090	7,295	4,839	3,592	3,770	6,407	3,075	2,399
80%	2,889	2,735	3,749	5,617	4,376	5,387	4,637	3,200	3,371	5,083	2,731	2,301
90%	2,443	2,535	2,789	4,841	3,371	4,186	4,025	2,530	2,902	4,220	2,672	2,194
Long Term												
Full Simulation Period[a]	3,890	6,712	10,990	14,157	15,647	16,179	9,595	5,510	4,687	7,207	4,393	5,121
Water Year Types[b]												
Wet (31%)	4,827	13,357	27,600	24,283	31,855	30,161	19,964	9,382	6,960	7,839	5,229	10,606
Above Normal (25%)	2,888	3,730	7,666	29,745	29,486	25,004	10,587	5,434	4,727	8,962	5,474	6,743
Below Normal (6%)	4,568	5,327	5,252	9,838	12,770	11,892	5,911	4,326	5,342	6,283	4,589	3,717
Dry (13%)	3,778	5,728	5,855	6,382	7,603	11,533	6,008	5,016	4,180	8,118	5,133	2,801
Critical (25%)	3,497	3,651	4,287	6,905	4,154	6,037	4,511	3,076	3,127	5,455	2,661	2,219

Alternative 5 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	6,105	12,358	30,805	28,820	34,826	32,094	20,493	8,854	7,072	9,086	6,409	9,583
20%	4,920	9,072	8,379	25,030	32,700	26,165	9,739	5,863	6,440	8,639	5,767	8,034
30%	4,710	6,052	8,215	16,276	17,996	19,414	6,984	5,634	5,865	8,163	5,275	5,817
40%	4,453	4,785	7,424	9,443	11,231	11,913	6,468	5,065	5,525	7,956	4,166	3,658
50%	4,185	4,422	6,925	8,949	9,215	10,806	5,816	4,673	5,424	7,312	3,740	3,626
60%	3,849	4,125	6,330	7,894	6,787	9,033	5,447	4,373	5,055	6,828	3,574	3,612
70%	3,750	3,714	6,100	6,924	6,015	6,921	5,336	4,109	4,656	5,708	3,459	3,247
80%	3,581	3,603	4,435	5,926	5,189	5,834	5,197	3,925	3,933	4,971	3,401	3,225
90%	2,993	3,523	3,888	5,302	3,855	4,951	5,030	3,104	3,709	3,883	3,218	3,132
Long Term												
Full Simulation Period[a]	4,313	6,805	11,328	13,574	15,162	15,242	9,646	5,813	5,645	6,912	4,447	5,175
Water Year Types[b]												
Wet (31%)	4,534	13,735	27,098	22,425	30,543	28,774	19,522	9,263	7,964	7,525	5,002	9,394
Above Normal (25%)	3,510	4,121	7,902	28,291	27,825	22,685	9,140	5,267	5,971	8,369	4,671	5,817
Below Normal (6%)	3,849	4,143	6,074	9,423	11,231	10,320	5,951	4,613	6,440	6,936	3,751	3,133
Dry (13%)	3,798	5,429	6,442	6,517	7,309	10,516	6,437	5,681	5,204	7,443	5,330	3,339
Critical (25%)	4,962	3,968	5,041	7,081	4,859	6,204	5,255	3,617	3,854	5,409	3,346	3,420

Alternative 5 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,088	54	-833	-2,174	-906	-987	-1,578	-46	1,405	-668	593	-1,217
20%	353	-271	-138	-1,951	-1,345	-1,923	-654	-297	1,097	-616	150	-986
30%	534	-674	110	-2,077	-2,479	-2,433	-580	311	1,264	-671	-163	-927
40%	496	-542	595	-664	-1,538	-3,095	557	357	1,181	-200	-1,026	-60
50%	358	-372	325	-540	-876	-1,612	437	334	1,278	-211	-939	590
60%	106	654	761	-103	-92	-1,258	159	627	1,156	147	-951	854
70%	226	578	989	159	925	-374	497	517	886	-699	384	848
80%	692	867	686	310	813	447	560	725	562	-112	669	924
90%	551	988	1,099	461	484	765	1,005	574	807	-337	546	938
Long Term												
Full Simulation Period[a]	423	93	337	-583	-485	-937	51	303	958	-294	54	54
Water Year Types[b]												
Wet (31%)	-293	378	-502	-1,858	-1,312	-1,386	-442	-120	1,004	-313	-227	-1,212
Above Normal (25%)	621	391	235	-1,454	-1,662	-2,320	-1,448	-167	1,244	-594	-803	-927
Below Normal (6%)	-718	-1,184	822	-414	-1,538	-1,572	41	287	1,097	653	-839	-585
Dry (13%)	20	-299	586	135	-294	-1,017	429	665	1,024	-674	197	538
Critical (25%)	1,465	316	754	176	705	168	744	541	727	-45	685	1,201

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-25-22. Sutter and Steamboat Slough, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5,017	12,304	31,638	30,994	35,732	33,080	22,071	8,900	5,667	9,754	5,817	10,800
20%	4,568	9,343	8,517	26,981	34,045	28,088	10,393	6,159	5,342	9,255	5,617	9,020
30%	4,177	6,726	8,106	18,353	20,476	21,847	7,564	5,323	4,601	8,835	5,438	6,743
40%	3,957	5,327	6,829	10,107	12,770	15,009	5,911	4,709	4,345	8,156	5,192	3,717
50%	3,827	4,794	6,601	9,489	10,091	12,418	5,379	4,339	4,146	7,523	4,679	3,036
60%	3,743	3,471	5,569	7,997	6,879	10,291	5,288	3,746	3,899	6,680	4,525	2,759
70%	3,524	3,136	5,111	6,764	5,090	7,295	4,839	3,592	3,770	6,407	3,075	2,399
80%	2,889	2,735	3,749	5,617	4,376	5,387	4,637	3,200	3,371	5,083	2,731	2,301
90%	2,443	2,535	2,789	4,841	3,371	4,186	4,025	2,530	2,902	4,220	2,672	2,194
Long Term												
Full Simulation Period[a]	3,890	6,712	10,990	14,157	15,647	16,179	9,595	5,510	4,687	7,207	4,393	5,121
Water Year Types[b]												
Wet (31%)	4,827	13,357	27,600	24,283	31,855	30,161	19,964	9,382	6,960	7,839	5,229	10,606
Above Normal (25%)	2,888	3,730	7,666	29,745	29,486	25,004	10,587	5,434	4,727	8,962	5,474	6,743
Below Normal (6%)	4,568	5,327	5,252	9,838	12,770	11,892	5,911	4,326	5,342	6,283	4,589	3,717
Dry (13%)	3,778	5,728	5,855	6,382	7,603	11,533	6,008	5,016	4,180	8,118	5,133	2,801
Critical (25%)	3,497	3,651	4,287	6,905	4,154	6,037	4,511	3,076	3,127	5,455	2,661	2,219

Alternative 6A,6B,6C (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,138	11,677	27,256	23,137	29,399	27,292	17,065	6,774	5,337	4,762	3,635	6,678
20%	3,764	8,307	8,533	20,322	26,645	22,192	8,775	5,255	4,442	3,990	3,597	4,404
30%	3,704	5,483	7,995	14,452	13,789	16,303	5,972	4,991	4,379	3,869	3,576	3,967
40%	3,514	3,757	7,062	9,106	9,654	9,642	5,806	4,745	4,288	3,715	3,508	3,407
50%	3,500	3,694	6,293	8,114	8,607	8,631	5,358	4,349	4,196	3,579	3,471	3,290
60%	3,454	3,653	5,075	7,300	7,756	8,164	5,138	4,128	4,076	3,506	3,430	3,230
70%	3,333	3,554	4,354	6,048	6,048	6,403	5,043	3,836	3,651	3,505	3,340	3,174
80%	3,271	3,456	4,276	5,343	5,055	5,560	4,744	3,407	3,431	3,480	3,321	3,134
90%	2,585	3,189	3,529	4,560	3,783	4,169	4,567	2,844	3,351	3,460	3,289	3,014
Long Term												
Full Simulation Period[a]	3,452	5,922	10,148	11,502	13,156	13,129	8,499	5,056	4,347	3,887	3,431	4,017
Water Year Types[b]												
Wet (31%)	3,857	11,137	24,349	18,794	25,905	24,870	16,991	7,622	5,383	4,805	3,623	6,329
Above Normal (25%)	2,554	3,189	7,374	23,345	22,099	19,217	7,291	5,000	4,057	3,852	3,576	3,967
Below Normal (6%)	3,699	3,757	4,276	9,107	9,654	8,164	5,829	4,527	5,397	3,504	3,604	3,407
Dry (13%)	3,516	5,203	5,830	6,227	6,693	9,222	6,173	4,774	4,281	3,622	3,427	3,248
Critical (25%)	3,389	3,851	4,526	5,631	5,250	5,421	4,583	3,358	3,476	3,455	3,188	2,923

Alternative 6A,6B,6C (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-879	-627	-4,382	-7,857	-6,333	-5,789	-5,006	-2,126	-330	-4,993	-2,181	-4,122
20%	-804	-1,035	16	-6,659	-7,400	-5,896	-1,618	-904	-900	-5,265	-2,020	-4,616
30%	-472	-1,243	-110	-3,901	-6,687	-5,544	-1,592	-332	-221	-4,965	-1,862	-2,776
40%	-443	-1,570	233	-1,001	-3,115	-5,367	-105	37	-57	-4,441	-1,684	-310
50%	-327	-1,100	-308	-1,375	-1,484	-3,787	-21	10	50	-3,944	-1,208	254
60%	-290	182	-495	-696	877	-2,127	-150	382	177	-3,175	-1,095	471
70%	-190	418	-757	-716	958	-892	204	244	-119	-2,902	264	775
80%	382	721	527	-274	679	173	108	207	60	-1,604	589	833
90%	143	654	740	-281	412	-17	542	314	448	-759	616	820
Long Term												
Full Simulation Period[a]	-438	-790	-842	-2,655	-2,491	-3,049	-1,096	-454	-341	-3,320	-962	-1,104
Water Year Types[b]												
Wet (31%)	-970	-2,220	-3,251	-5,489	-5,950	-5,290	-2,973	-1,761	-1,577	-3,033	-1,606	-4,277
Above Normal (25%)	-335	-541	-292	-6,400	-7,387	-5,788	-3,297	-434	-670	-5,110	-1,898	-2,776
Below Normal (6%)	-868	-1,570	-976	-730	-3,115	-3,728	-81	201	55	-2,778	-985	-310
Dry (13%)	-262	-525	-25	-155	-910	-2,311	165	-242	100	-4,496	-1,706	447
Critical (25%)	-109	200	239	-1,274	1,096	-616	72	282	349	-1,999	527	703

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-25-23. Sutter and Steamboat Slough, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5,017	12,304	31,638	30,994	35,732	33,080	22,071	8,900	5,667	9,754	5,817	10,800
20%	4,568	9,343	8,517	26,981	34,045	28,088	10,393	6,159	5,342	9,255	5,617	9,020
30%	4,177	6,726	8,106	18,353	20,476	21,847	7,564	5,323	4,601	8,835	5,438	6,743
40%	3,957	5,327	6,829	10,107	12,770	15,009	5,911	4,709	4,345	8,156	5,192	3,717
50%	3,827	4,794	6,601	9,489	10,091	12,418	5,379	4,339	4,146	7,523	4,679	3,036
60%	3,743	3,471	5,569	7,997	6,879	10,291	5,288	3,746	3,899	6,680	4,525	2,759
70%	3,524	3,136	5,111	6,764	5,090	7,295	4,839	3,592	3,770	6,407	3,075	2,399
80%	2,889	2,735	3,749	5,617	4,376	5,387	4,637	3,200	3,371	5,083	2,731	2,301
90%	2,443	2,535	2,789	4,841	3,371	4,186	4,025	2,530	2,902	4,220	2,672	2,194
Long Term												
Full Simulation Period[a]	3,890	6,712	10,990	14,157	15,647	16,179	9,595	5,510	4,687	7,207	4,393	5,121
Water Year Types[b]												
Wet (31%)	4,827	13,357	27,600	24,283	31,855	30,161	19,964	9,382	6,960	7,839	5,229	10,606
Above Normal (25%)	2,888	3,730	7,666	29,745	29,486	25,004	10,587	5,434	4,727	8,962	5,474	6,743
Below Normal (6%)	4,568	5,327	5,252	9,838	12,770	11,892	5,911	4,326	5,342	6,283	4,589	3,717
Dry (13%)	3,778	5,728	5,855	6,382	7,603	11,533	6,008	5,016	4,180	8,118	5,133	2,801
Critical (25%)	3,497	3,651	4,287	6,905	4,154	6,037	4,511	3,076	3,127	5,455	2,661	2,219

Alternative 7 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,056	11,263	29,228	25,460	31,418	28,932	17,784	7,389	5,227	9,216	5,615	8,289
20%	3,925	8,674	8,277	22,547	29,222	22,703	9,153	5,277	4,917	7,758	5,099	6,820
30%	3,840	5,532	7,923	14,181	14,736	16,331	6,287	4,973	4,856	7,313	4,929	5,233
40%	3,765	3,989	7,022	8,683	9,620	9,854	5,756	4,766	4,625	7,031	4,916	4,265
50%	3,610	3,783	6,353	8,121	8,823	9,046	5,543	4,412	4,615	6,640	4,763	3,715
60%	3,562	3,714	5,171	7,373	7,857	8,245	5,330	4,103	4,592	5,976	4,549	3,276
70%	3,430	3,675	4,504	5,974	6,243	6,860	5,062	3,848	4,537	5,345	4,443	3,195
80%	3,405	3,589	4,348	5,428	5,150	5,730	4,857	3,543	4,498	4,521	4,359	3,126
90%	2,600	3,559	3,635	4,675	3,850	4,305	4,661	3,493	4,351	4,506	4,280	3,074
Long Term												
Full Simulation Period[a]	3,498	6,232	10,520	12,055	13,858	13,543	8,740	5,289	4,995	6,541	4,830	4,771
Water Year Types[b]												
Wet (31%)	3,951	12,000	25,725	19,668	27,258	25,589	17,533	7,887	6,215	7,361	4,819	8,098
Above Normal (25%)	2,691	3,789	7,277	25,693	24,396	19,188	7,523	5,021	4,730	7,078	4,725	5,233
Below Normal (6%)	3,417	3,793	4,348	9,136	9,620	9,494	6,181	4,633	5,215	7,031	5,298	4,265
Dry (13%)	3,525	5,186	5,853	6,273	6,969	9,624	6,274	4,821	4,641	7,785	5,398	3,276
Critical (25%)	3,454	3,919	4,623	5,718	5,282	5,593	4,677	3,824	4,365	4,577	4,334	3,224

Alternative 7 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-962	-1,042	-2,410	-5,534	-4,315	-4,148	-4,286	-1,511	-440	-539	-201	-2,511
20%	-642	-668	-240	-4,434	-4,823	-5,386	-1,240	-882	-425	-1,497	-518	-2,200
30%	-336	-1,194	-182	-4,171	-5,740	-5,516	-1,277	-349	255	-1,522	-510	-1,511
40%	-192	-1,338	193	-1,424	-3,149	-5,155	-154	57	281	-1,125	-276	548
50%	-217	-1,011	-248	-1,368	-1,268	-3,371	164	74	468	-883	84	679
60%	-181	244	-398	-624	978	-2,046	42	357	693	-704	24	517
70%	-94	539	-607	-790	1,152	-435	224	256	767	-1,062	1,368	796
80%	515	854	598	-189	774	343	221	343	1,127	-562	1,628	825
90%	157	1,024	846	-166	478	119	636	964	1,449	286	1,607	880
Long Term												
Full Simulation Period[a]	-392	-480	-470	-2,102	-1,788	-2,636	-855	-221	308	-666	437	-349
Water Year Types[b]												
Wet (31%)	-876	-1,357	-1,875	-4,615	-4,597	-4,572	-2,431	-1,495	-745	-478	-410	-2,509
Above Normal (25%)	-197	60	-389	-4,052	-5,090	-5,816	-3,064	-412	3	-1,885	-749	-1,511
Below Normal (6%)	-1,151	-1,535	-904	-702	-3,149	-2,398	271	308	-127	748	709	548
Dry (13%)	-253	-543	-3	-109	-634	-1,909	266	-195	460	-332	265	475
Critical (25%)	-43	267	335	-1,187	1,128	-444	167	748	1,238	-878	1,673	1,004

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-25-24. Sutter and Steamboat Slough, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5,017	12,304	31,638	30,994	35,732	33,080	22,071	8,900	5,667	9,754	5,817	10,800
20%	4,568	9,343	8,517	26,981	34,045	28,088	10,393	6,159	5,342	9,255	5,617	9,020
30%	4,177	6,726	8,106	18,353	20,476	21,847	7,564	5,323	4,601	8,835	5,438	6,743
40%	3,957	5,327	6,829	10,107	12,770	15,009	5,911	4,709	4,345	8,156	5,192	3,717
50%	3,827	4,794	6,601	9,489	10,091	12,418	5,379	4,339	4,146	7,523	4,679	3,036
60%	3,743	3,471	5,569	7,997	6,879	10,291	5,288	3,746	3,899	6,680	4,525	2,759
70%	3,524	3,136	5,111	6,764	5,090	7,295	4,839	3,592	3,770	6,407	3,075	2,399
80%	2,889	2,735	3,749	5,617	4,376	5,387	4,637	3,200	3,371	5,083	2,731	2,301
90%	2,443	2,535	2,789	4,841	3,371	4,186	4,025	2,530	2,902	4,220	2,672	2,194
Long Term												
Full Simulation Period[a]	3,890	6,712	10,990	14,157	15,647	16,179	9,595	5,510	4,687	7,207	4,393	5,121
Water Year Types[b]												
Wet (31%)	4,827	13,357	27,600	24,283	31,855	30,161	19,964	9,382	6,960	7,839	5,229	10,606
Above Normal (25%)	2,888	3,730	7,666	29,745	29,486	25,004	10,587	5,434	4,727	8,962	5,474	6,743
Below Normal (6%)	4,568	5,327	5,252	9,838	12,770	11,892	5,911	4,326	5,342	6,283	4,589	3,717
Dry (13%)	3,778	5,728	5,855	6,382	7,603	11,533	6,008	5,016	4,180	8,118	5,133	2,801
Critical (25%)	3,497	3,651	4,287	6,905	4,154	6,037	4,511	3,076	3,127	5,455	2,661	2,219

Alternative 8 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,030	12,442	29,303	25,633	31,437	28,930	18,985	8,896	5,029	5,593	4,517	8,160
20%	3,937	8,964	8,535	22,518	28,529	22,455	10,733	6,769	4,622	4,992	4,473	6,799
30%	3,635	5,508	7,877	15,167	16,784	18,088	7,634	6,250	4,603	4,686	4,450	5,141
40%	3,431	3,752	6,974	9,980	10,406	10,959	7,163	5,289	4,596	4,663	4,434	3,362
50%	3,247	3,720	6,358	9,011	9,173	10,334	7,078	4,981	4,556	4,588	4,400	3,241
60%	3,177	3,704	5,018	8,078	8,790	8,814	6,562	4,838	4,513	4,501	4,372	3,133
70%	3,058	3,657	4,439	6,368	7,036	7,787	5,963	4,576	4,491	4,467	4,299	3,116
80%	2,685	3,591	4,271	5,834	5,303	6,931	5,566	4,387	4,283	4,419	4,243	3,104
90%	2,104	3,295	3,579	4,645	4,316	5,981	4,959	3,640	4,212	4,368	4,064	3,091
Long Term												
Full Simulation Period[a]	3,226	6,378	10,531	12,591	14,381	14,412	9,708	6,257	4,961	4,759	4,311	4,599
Water Year Types[b]												
Wet (31%)	3,698	12,768	25,858	20,400	27,142	25,577	18,094	9,593	6,549	5,529	4,529	8,034
Above Normal (25%)	2,884	3,330	7,302	26,387	24,738	19,733	9,042	5,953	4,612	4,530	4,444	5,141
Below Normal (6%)	3,287	3,752	4,319	9,980	12,620	10,193	7,082	6,769	4,844	4,486	4,423	3,362
Dry (13%)	2,999	5,250	5,881	6,812	7,872	11,360	7,808	5,175	4,414	4,555	4,382	3,172
Critical (25%)	3,155	3,914	4,524	5,969	5,588	6,636	5,311	4,474	4,291	4,452	4,004	3,022

Alternative 8 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-987	138	-2,336	-5,361	-4,295	-4,150	-3,086	-4	-638	-4,161	-1,299	-2,640
20%	-630	-379	18	-4,463	-5,516	-5,633	340	610	-720	-4,263	-1,144	-2,222
30%	-541	-1,218	-229	-3,185	-3,692	-3,759	69	927	2	-4,149	-988	-1,603
40%	-526	-1,576	145	-127	-2,364	-4,050	1,252	581	251	-3,492	-759	-355
50%	-580	-1,074	-242	-478	-918	-2,084	1,699	642	410	-2,935	-279	205
60%	-566	233	-552	81	1,911	-1,477	1,275	1,092	615	-2,179	-154	374
70%	-466	520	-672	-396	1,945	492	1,124	984	721	-1,940	1,223	717
80%	-204	856	522	218	927	1,543	930	1,187	912	-664	1,512	803
90%	-338	760	790	-196	945	1,794	934	1,110	1,310	148	1,391	898
Long Term												
Full Simulation Period[a]	-664	-333	-459	-1,567	-1,266	-1,767	113	747	274	-2,448	-82	-522
Water Year Types[b]												
Wet (31%)	-1,128	-589	-1,742	-3,883	-4,713	-4,583	-1,870	210	-411	-2,309	-700	-2,572
Above Normal (25%)	-4	-400	-364	-3,358	-4,748	-5,272	-1,545	519	-115	-4,432	-1,030	-1,603
Below Normal (6%)	-1,281	-1,576	-932	142	-150	-1,699	1,171	2,443	-498	-1,797	-166	-355
Dry (13%)	-779	-478	26	430	269	-173	1,800	160	234	-3,562	-751	371
Critical (25%)	-342	263	236	-936	1,434	600	801	1,399	1,164	-1,003	1,343	803

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-25-25. Sutter and Steamboat Slough, Monthly Flow

No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5,017	12,304	31,638	30,994	35,732	33,080	22,071	8,900	5,667	9,754	5,817	10,800
20%	4,568	9,343	8,517	26,981	34,045	28,088	10,393	6,159	5,342	9,255	5,617	9,020
30%	4,177	6,726	8,106	18,353	20,476	21,847	7,564	5,323	4,601	8,835	5,438	6,743
40%	3,957	5,327	6,829	10,107	12,770	15,009	5,911	4,709	4,345	8,156	5,192	3,717
50%	3,827	4,794	6,601	9,489	10,091	12,418	5,379	4,339	4,146	7,523	4,679	3,036
60%	3,743	3,471	5,569	7,997	6,879	10,291	5,288	3,746	3,899	6,680	4,525	2,759
70%	3,524	3,136	5,111	6,764	5,090	7,295	4,839	3,592	3,770	6,407	3,075	2,399
80%	2,889	2,735	3,749	5,617	4,376	5,387	4,637	3,200	3,371	5,083	2,731	2,301
90%	2,443	2,535	2,789	4,841	3,371	4,186	4,025	2,530	2,902	4,220	2,672	2,194
Long Term												
Full Simulation Period[a]	3,890	6,712	10,990	14,157	15,647	16,179	9,595	5,510	4,687	7,207	4,393	5,121
Water Year Types[b]												
Wet (31%)	4,827	13,357	27,600	24,283	31,855	30,161	19,964	9,382	6,960	7,839	5,229	10,606
Above Normal (25%)	2,888	3,730	7,666	29,745	29,486	25,004	10,587	5,434	4,727	8,962	5,474	6,743
Below Normal (6%)	4,568	5,327	5,252	9,838	12,770	11,892	5,911	4,326	5,342	6,283	4,589	3,717
Dry (13%)	3,778	5,728	5,855	6,382	7,603	11,533	6,008	5,016	4,180	8,118	5,133	2,801
Critical (25%)	3,497	3,651	4,287	6,905	4,154	6,037	4,511	3,076	3,127	5,455	2,661	2,219

Alternative 9 (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	6,765	13,497	33,068	31,721	38,126	35,153	21,999	9,389	6,752	8,944	6,964	12,550
20%	5,554	10,171	8,073	27,785	35,732	28,670	9,856	6,919	6,131	8,757	6,876	10,004
30%	5,333	7,779	7,744	17,606	19,903	20,915	7,591	6,305	5,666	8,294	6,802	8,016
40%	4,771	5,845	7,151	9,815	12,585	13,183	6,374	5,891	5,628	7,431	6,609	5,059
50%	4,282	4,638	6,511	8,984	9,441	11,770	5,866	5,586	5,596	7,180	5,928	3,995
60%	3,924	4,231	6,143	7,636	6,505	9,504	5,660	5,011	5,522	6,900	5,195	3,756
70%	3,627	4,062	5,654	5,757	5,328	7,094	5,463	4,854	5,001	6,394	4,583	3,349
80%	3,412	3,888	4,706	5,228	4,937	5,637	5,273	3,778	4,572	5,553	4,069	3,247
90%	3,097	3,484	4,523	4,660	4,027	4,749	4,937	3,639	4,200	4,756	3,735	3,233
Long Term												
Full Simulation Period[a]	4,603	7,540	11,745	14,127	16,274	16,424	10,112	6,534	5,862	7,186	5,582	6,301
Water Year Types[b]												
Wet (31%)	6,118	14,511	29,244	24,481	33,464	31,561	20,898	10,298	8,151	7,715	6,419	12,164
Above Normal (25%)	2,972	4,577	7,386	31,222	30,592	24,803	10,199	5,969	5,575	8,905	6,767	8,016
Below Normal (6%)	5,300	6,623	5,754	9,319	12,585	11,557	6,374	5,011	6,131	7,018	5,652	5,059
Dry (13%)	4,384	5,898	6,100	6,348	7,385	11,068	6,610	6,483	5,539	7,525	6,094	3,777
Critical (25%)	4,079	4,645	5,203	6,190	4,642	6,220	4,997	4,095	4,351	5,837	4,015	3,194

Alternative 9 (LLT) minus No Action Alternative (LLT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,748	1,192	1,430	727	2,394	2,072	-72	489	1,085	-810	1,147	1,749
20%	986	828	-444	804	1,687	582	-537	760	789	-498	1,260	984
30%	1,156	1,053	-361	-746	-573	-932	26	982	1,065	-541	1,364	1,273
40%	814	517	321	-292	-184	-1,826	464	1,183	1,283	-725	1,417	1,342
50%	454	-156	-90	-505	-650	-648	486	1,248	1,449	-343	1,249	959
60%	181	761	573	-361	-374	-787	372	1,265	1,624	219	670	997
70%	103	926	543	-1,007	237	-201	624	1,261	1,231	-13	1,508	950
80%	523	1,152	957	-389	561	249	637	578	1,201	470	1,338	945
90%	654	949	1,734	-181	656	563	912	1,110	1,298	537	1,062	1,039
Long Term												
Full Simulation Period[a]	713	828	754	-30	627	245	517	1,024	1,175	-21	1,189	1,181
Water Year Types[b]												
Wet (31%)	1,292	1,154	1,644	198	1,608	1,401	934	916	1,191	-123	1,190	1,558
Above Normal (25%)	84	847	-280	1,477	1,106	-202	-388	536	848	-58	1,293	1,273
Below Normal (6%)	733	1,296	503	-519	-184	-335	464	685	789	735	1,063	1,342
Dry (13%)	606	170	245	-34	-218	-465	602	1,467	1,358	-593	962	976
Critical (25%)	582	994	915	-716	488	183	486	1,019	1,224	382	1,353	974

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

C.26. Steamboat Slough downstream of Sutter Slough Water Surface Elevation

Table C-26-1-1. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	3.5	4.7	6.3	6.1	7.1	6.5	4.9	3.9	3.8	4.1	3.9	3.9
20%	3.2	4.1	3.8	5.5	6.3	5.6	3.5	3.5	3.6	3.9	3.8	3.5
30%	3.2	3.4	3.8	4.6	4.8	4.6	3.4	3.4	3.6	3.9	3.6	3.5
40%	3.2	3.3	3.8	4.0	4.1	3.9	3.2	3.4	3.5	3.9	3.6	3.4
50%	3.2	3.3	3.5	3.9	3.7	3.9	3.1	3.3	3.4	3.9	3.6	3.4
60%	3.2	3.3	3.5	3.6	3.4	3.7	3.1	3.3	3.4	3.8	3.6	3.4
70%	3.1	3.2	3.4	3.5	3.3	3.3	3.1	3.2	3.4	3.8	3.5	3.3
80%	3.0	3.1	3.3	3.3	3.3	3.1	3.0	3.1	3.3	3.7	3.5	3.2
90%	3.0	3.0	3.2	3.2	3.1	2.9	2.9	3.0	3.3	3.6	3.5	3.2
Long Term												
Full Simulation Period[a]	3.2	3.6	4.1	4.3	4.5	4.3	3.6	3.5	3.6	3.9	3.6	3.5
Water Year Types[b]												
Wet (31%)	3.5	4.6	5.9	5.3	6.4	6.2	4.8	4.1	4.1	4.1	3.9	3.9
Above Normal (25%)	3.0	3.1	3.6	6.1	6.0	5.1	3.6	3.5	3.4	3.7	3.6	3.3
Below Normal (6%)	3.2	3.2	3.1	4.0	4.3	3.8	3.1	3.3	3.3	3.6	3.5	3.2
Dry (13%)	3.1	3.3	3.5	3.5	3.4	3.7	3.2	3.3	3.5	3.9	3.7	3.4
Critical (25%)	3.2	3.3	3.5	3.4	3.2	3.1	3.0	3.0	3.3	3.8	3.5	3.3

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	4.9	5.6	7.4	7.4	8.2	7.5	6.2	5.3	5.2	5.5	5.3	5.6
20%	4.7	5.2	5.2	7.1	7.5	6.9	5.0	4.9	5.1	5.5	5.2	5.2
30%	4.7	4.9	5.2	6.0	6.2	5.9	4.8	4.8	5.0	5.5	5.2	5.0
40%	4.7	4.8	5.2	5.3	5.4	5.3	4.7	4.8	5.0	5.4	5.2	4.9
50%	4.7	4.8	5.0	5.3	5.1	5.1	4.6	4.7	4.9	5.4	5.0	4.9
60%	4.6	4.7	4.9	5.1	4.8	4.9	4.5	4.6	4.9	5.4	5.0	4.9
70%	4.6	4.7	4.9	5.0	4.7	4.7	4.5	4.6	4.9	5.3	5.0	4.8
80%	4.6	4.5	4.7	5.0	4.7	4.5	4.4	4.6	4.8	5.2	4.9	4.7
90%	4.5	4.5	4.7	4.6	4.5	4.4	4.3	4.5	4.8	5.1	4.9	4.7
Long Term												
Full Simulation Period[a]	4.7	5.0	5.5	5.7	5.8	5.6	5.0	4.8	5.0	5.4	5.1	5.0
Water Year Types[b]												
Wet (31%)	4.9	5.7	7.1	6.7	7.6	7.2	6.1	5.2	5.3	5.6	5.3	5.6
Above Normal (25%)	4.5	4.6	5.1	7.3	7.4	6.4	5.0	4.8	4.8	5.3	5.1	5.0
Below Normal (6%)	4.7	4.8	4.7	5.4	5.4	5.1	4.5	4.6	4.8	5.0	4.9	4.7
Dry (13%)	4.7	4.8	5.0	4.9	4.9	5.1	4.6	4.8	5.0	5.4	5.1	4.8
Critical (25%)	4.7	4.7	4.9	4.9	4.6	4.5	4.5	4.6	4.8	5.2	4.9	4.8

No Action Alternative (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.4	1.0	1.1	1.3	1.1	1.0	1.3	1.3	1.4	1.4	1.5	1.7
20%	1.5	1.1	1.4	1.6	1.2	1.3	1.4	1.4	1.5	1.6	1.4	1.7
30%	1.5	1.5	1.5	1.4	1.4	1.3	1.4	1.4	1.5	1.6	1.5	1.5
40%	1.5	1.5	1.4	1.4	1.3	1.4	1.4	1.4	1.5	1.5	1.5	1.5
50%	1.5	1.5	1.4	1.4	1.4	1.3	1.4	1.4	1.5	1.5	1.4	1.5
60%	1.4	1.5	1.4	1.5	1.4	1.2	1.4	1.4	1.5	1.5	1.5	1.5
70%	1.5	1.5	1.4	1.5	1.4	1.4	1.5	1.4	1.5	1.5	1.5	1.5
80%	1.5	1.5	1.5	1.7	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.5
90%	1.5	1.5	1.5	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.4	1.5
Long Term												
Full Simulation Period[a]	1.5	1.4	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.5	1.5	1.5
Water Year Types[b]												
Wet (31%)	1.4	1.1	1.2	1.4	1.2	1.0	1.3	1.1	1.2	1.4	1.5	1.7
Above Normal (25%)	1.5	1.4	1.5	1.2	1.4	1.3	1.3	1.4	1.4	1.6	1.5	1.6
Below Normal (6%)	1.5	1.6	1.6	1.4	1.1	1.3	1.4	1.3	1.5	1.4	1.4	1.5
Dry (13%)	1.5	1.4	1.4	1.4	1.4	1.3	1.4	1.5	1.5	1.5	1.4	1.4
Critical (25%)	1.5	1.5	1.4	1.5	1.4	1.4	1.5	1.5	1.5	1.5	1.4	1.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

Table C-26-1-2. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	3.5	4.7	6.3	6.1	7.1	6.5	4.9	3.9	3.8	4.1	3.9	3.9
20%	3.2	4.1	3.8	5.5	6.3	5.6	3.5	3.5	3.6	3.9	3.8	3.5
30%	3.2	3.4	3.8	4.6	4.8	4.6	3.4	3.4	3.6	3.9	3.6	3.5
40%	3.2	3.3	3.8	4.0	4.1	3.9	3.2	3.4	3.5	3.9	3.6	3.4
50%	3.2	3.3	3.5	3.9	3.7	3.9	3.1	3.3	3.4	3.9	3.6	3.4
60%	3.2	3.3	3.5	3.6	3.4	3.7	3.1	3.3	3.4	3.8	3.6	3.4
70%	3.1	3.2	3.4	3.5	3.3	3.3	3.1	3.2	3.4	3.8	3.5	3.3
80%	3.0	3.1	3.3	3.3	3.3	3.1	3.0	3.1	3.3	3.7	3.5	3.2
90%	3.0	3.0	3.2	3.2	3.1	2.9	2.9	3.0	3.3	3.6	3.5	3.2
Long Term												
Full Simulation Period[a]	3.2	3.6	4.1	4.3	4.5	4.3	3.6	3.5	3.6	3.9	3.6	3.5
Water Year Types[b]												
Wet (31%)	3.5	4.6	5.9	5.3	6.4	6.2	4.8	4.1	4.1	4.1	3.9	3.9
Above Normal (25%)	3.0	3.1	3.6	6.1	6.0	5.1	3.6	3.5	3.4	3.7	3.6	3.3
Below Normal (6%)	3.2	3.2	3.1	4.0	4.3	3.8	3.1	3.3	3.3	3.6	3.5	3.2
Dry (13%)	3.1	3.3	3.5	3.5	3.4	3.7	3.2	3.3	3.5	3.9	3.7	3.4
Critical (25%)	3.2	3.3	3.5	3.4	3.2	3.1	3.0	3.0	3.3	3.8	3.5	3.3

Alternative 1A,1B,1C (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	4.3	4.9	6.2	5.9	7.0	6.2	5.2	4.5	4.6	4.9	4.6	4.6
20%	4.3	4.5	4.7	5.6	5.9	5.7	4.3	4.3	4.5	4.7	4.6	4.4
30%	4.3	4.3	4.6	5.1	5.1	4.9	4.2	4.2	4.4	4.7	4.5	4.3
40%	4.2	4.2	4.5	4.7	4.5	4.4	4.1	4.2	4.3	4.6	4.5	4.3
50%	4.2	4.1	4.4	4.6	4.4	4.3	4.0	4.1	4.3	4.6	4.5	4.3
60%	4.1	4.1	4.3	4.4	4.3	4.3	4.0	4.1	4.3	4.6	4.4	4.3
70%	4.1	4.1	4.3	4.4	4.2	4.1	4.0	4.1	4.2	4.5	4.3	4.3
80%	4.0	4.0	4.1	4.2	4.2	4.0	4.0	4.0	4.2	4.4	4.3	4.1
90%	4.0	3.9	4.1	4.1	4.0	3.9	3.8	3.9	4.2	4.3	4.2	4.1
Long Term												
Full Simulation Period[a]	4.2	4.3	4.8	4.9	5.0	4.8	4.3	4.2	4.4	4.6	4.4	4.3
Water Year Types[b]												
Wet (31%)	4.3	5.0	6.0	5.6	6.3	6.1	5.2	4.5	4.6	4.8	4.6	4.7
Above Normal (25%)	4.0	4.0	4.4	5.9	6.3	5.3	4.2	4.2	4.2	4.5	4.4	4.2
Below Normal (6%)	4.3	4.1	4.1	4.7	4.5	4.3	4.0	4.0	4.1	4.2	4.2	4.1
Dry (13%)	4.1	4.1	4.4	4.4	4.2	4.3	4.0	4.2	4.4	4.7	4.5	4.3
Critical (25%)	4.2	4.1	4.3	4.3	4.1	3.9	3.9	4.0	4.2	4.5	4.3	4.3

Alternative 1A,1B,1C (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.9	0.2	**-0.1**	**-0.2**	**-0.2**	**-0.3**	0.2	0.6	0.8	0.8	0.8	0.7
20%	1.0	0.4	0.8	0.1	**-0.4**	0.1	0.8	0.8	0.9	0.7	0.7	0.9
30%	1.1	0.9	0.8	0.5	0.3	0.3	0.8	0.8	0.8	0.7	0.9	0.9
40%	1.1	0.9	0.8	0.8	0.4	0.5	0.9	0.8	0.9	0.8	0.9	0.9
50%	1.0	0.9	0.8	0.7	0.7	0.4	0.9	0.9	0.9	0.8	0.8	0.9
60%	0.9	0.9	0.9	0.8	0.8	0.5	0.9	0.8	0.9	0.8	0.8	0.9
70%	1.0	0.9	0.8	0.8	0.9	0.8	0.9	0.9	0.9	0.7	0.8	1.0
80%	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.7	0.8	0.9
90%	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.7	0.8	0.9
Long Term												
Full Simulation Period[a]	1.0	0.7	0.7	0.6	0.5	0.4	0.7	0.8	0.8	0.7	0.8	0.9
Water Year Types[b]												
Wet (31%)	0.9	0.4	0.1	0.3	**0.0**	**-0.1**	0.4	0.4	0.5	0.7	0.8	0.7
Above Normal (25%)	1.0	0.8	0.8	**-0.2**	0.2	0.2	0.6	0.7	0.8	0.8	0.8	0.9
Below Normal (6%)	1.1	0.9	1.0	0.7	0.2	0.5	0.9	0.7	0.8	0.6	0.7	0.9
Dry (13%)	0.9	0.8	0.8	0.9	0.8	0.6	0.9	0.9	0.9	0.8	0.8	0.9
Critical (25%)	1.0	0.9	0.8	0.8	0.9	0.8	0.9	1.0	0.9	0.7	0.8	0.9

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-26-1-3. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.5	4.7	6.3	6.1	7.1	6.5	4.9	3.9	3.8	4.1	3.9	3.9
20%	3.2	4.1	3.8	5.5	6.3	5.6	3.5	3.5	3.6	3.9	3.8	3.5
30%	3.2	3.4	3.8	4.6	4.8	4.6	3.4	3.4	3.6	3.9	3.6	3.5
40%	3.2	3.3	3.8	4.0	4.1	3.9	3.2	3.4	3.5	3.9	3.6	3.4
50%	3.2	3.3	3.5	3.9	3.7	3.9	3.1	3.3	3.4	3.9	3.6	3.4
60%	3.2	3.3	3.5	3.6	3.4	3.7	3.1	3.3	3.4	3.8	3.6	3.4
70%	3.1	3.2	3.4	3.5	3.3	3.3	3.1	3.2	3.4	3.8	3.5	3.3
80%	3.0	3.1	3.3	3.3	3.3	3.1	3.0	3.1	3.3	3.7	3.5	3.2
90%	3.0	3.0	3.2	3.2	3.1	2.9	2.9	3.0	3.3	3.6	3.5	3.2
Long Term												
Full Simulation Period[a]	3.2	3.6	4.1	4.3	4.5	4.3	3.6	3.5	3.6	3.9	3.6	3.5
Water Year Types[b]												
Wet (31%)	3.5	4.6	5.9	5.3	6.4	6.2	4.8	4.1	4.1	4.1	3.9	3.9
Above Normal (25%)	3.0	3.1	3.6	6.1	6.0	5.1	3.6	3.5	3.4	3.7	3.6	3.3
Below Normal (6%)	3.2	3.2	3.1	4.0	4.3	3.8	3.1	3.3	3.3	3.6	3.5	3.2
Dry (13%)	3.1	3.3	3.5	3.5	3.4	3.7	3.2	3.3	3.5	3.9	3.7	3.4
Critical (25%)	3.2	3.3	3.5	3.4	3.2	3.1	3.0	3.0	3.3	3.8	3.5	3.3

Alternative 2A,2B,2C (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	4.9	6.1	5.9	6.8	6.2	5.2	4.6	4.6	4.9	4.6	4.8
20%	4.2	4.5	4.6	5.7	6.0	5.7	4.3	4.3	4.5	4.7	4.5	4.7
30%	4.2	4.3	4.6	5.1	5.1	4.8	4.2	4.2	4.4	4.7	4.5	4.4
40%	4.2	4.2	4.5	4.6	4.5	4.4	4.1	4.2	4.4	4.7	4.5	4.3
50%	4.1	4.1	4.4	4.6	4.4	4.3	4.0	4.1	4.3	4.6	4.4	4.3
60%	4.1	4.1	4.3	4.4	4.3	4.3	4.0	4.1	4.3	4.6	4.4	4.3
70%	4.0	4.1	4.3	4.4	4.2	4.1	3.9	4.1	4.2	4.5	4.3	4.3
80%	4.0	4.0	4.1	4.4	4.1	3.9	3.9	4.0	4.2	4.5	4.3	4.2
90%	4.0	3.9	4.1	4.1	4.0	3.9	3.8	3.9	4.1	4.3	4.2	4.1
Long Term												
Full Simulation Period[a]	4.1	4.3	4.8	4.9	5.0	4.7	4.3	4.2	4.4	4.6	4.4	4.4
Water Year Types[b]												
Wet (31%)	4.3	4.9	6.0	5.6	6.3	6.1	5.2	4.5	4.7	4.8	4.6	4.9
Above Normal (25%)	4.0	4.0	4.4	5.9	6.1	5.3	4.2	4.2	4.2	4.6	4.4	4.3
Below Normal (6%)	4.0	4.1	4.1	4.7	4.5	4.3	4.0	4.0	4.2	4.2	4.2	4.1
Dry (13%)	4.1	4.2	4.4	4.3	4.2	4.3	4.0	4.2	4.4	4.6	4.5	4.2
Critical (25%)	4.1	4.1	4.3	4.3	4.1	3.9	3.9	4.0	4.2	4.5	4.3	4.2

Alternative 2A,2B,2C (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.8	0.2	-0.2	-0.1	-0.3	-0.3	0.3	0.7	0.8	0.8	0.7	0.9
20%	1.0	0.4	0.8	0.2	-0.3	0.1	0.8	0.8	0.9	0.8	0.7	1.2
30%	1.0	0.9	0.8	0.5	0.3	0.2	0.8	0.8	0.8	0.8	0.9	0.9
40%	1.0	0.8	0.8	0.6	0.4	0.5	0.9	0.8	0.9	0.8	0.8	0.9
50%	1.0	0.9	0.9	0.7	0.7	0.5	0.8	0.9	0.9	0.8	0.8	0.9
60%	0.9	0.9	0.8	0.8	0.8	0.5	0.9	0.8	0.9	0.8	0.8	0.9
70%	1.0	0.9	0.8	0.9	0.9	0.8	0.9	0.9	0.9	0.7	0.8	1.0
80%	0.9	0.9	0.8	1.1	0.9	0.9	0.9	0.9	0.9	0.7	0.8	1.0
90%	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.7	0.8	0.9
Long Term												
Full Simulation Period[a]	0.9	0.7	0.7	0.6	0.5	0.4	0.7	0.8	0.8	0.7	0.8	0.9
Water Year Types[b]												
Wet (31%)	0.9	0.3	0.1	0.3	-0.1	-0.2	0.4	0.4	0.5	0.7	0.8	0.9
Above Normal (25%)	1.0	0.8	0.8	-0.2	0.1	0.2	0.6	0.7	0.8	0.9	0.8	1.0
Below Normal (6%)	0.9	0.9	1.0	0.7	0.2	0.5	0.9	0.7	0.9	0.6	0.7	0.8
Dry (13%)	0.9	0.8	0.8	0.8	0.8	0.5	0.9	0.9	0.9	0.8	0.8	0.9
Critical (25%)	0.9	0.9	0.9	0.9	0.9	0.8	0.9	1.0	0.9	0.7	0.8	0.9

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-26-1-4. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	3.5	4.7	6.3	6.1	7.1	6.5	4.9	3.9	3.8	4.1	3.9	3.9
20%	3.2	4.1	3.8	5.5	6.3	5.6	3.5	3.5	3.6	3.9	3.8	3.5
30%	3.2	3.4	3.8	4.6	4.8	4.6	3.4	3.4	3.6	3.9	3.6	3.5
40%	3.2	3.3	3.8	4.0	4.1	3.9	3.2	3.4	3.5	3.9	3.6	3.4
50%	3.2	3.3	3.5	3.9	3.7	3.9	3.1	3.3	3.4	3.9	3.6	3.4
60%	3.2	3.3	3.5	3.6	3.4	3.7	3.1	3.3	3.4	3.8	3.6	3.4
70%	3.1	3.2	3.4	3.5	3.3	3.3	3.1	3.2	3.4	3.8	3.5	3.3
80%	3.0	3.1	3.3	3.3	3.3	3.1	3.0	3.1	3.3	3.7	3.5	3.2
90%	3.0	3.0	3.2	3.2	3.1	2.9	2.9	3.0	3.3	3.6	3.5	3.2
Long Term												
Full Simulation Period[a]	3.2	3.6	4.1	4.3	4.5	4.3	3.6	3.5	3.6	3.9	3.6	3.5
Water Year Types[b]												
Wet (31%)	3.5	4.6	5.9	5.3	6.4	6.2	4.8	4.1	4.1	4.1	3.9	3.9
Above Normal (25%)	3.0	3.1	3.6	6.1	6.0	5.1	3.6	3.5	3.4	3.7	3.6	3.3
Below Normal (6%)	3.2	3.2	3.1	4.0	4.3	3.8	3.1	3.3	3.3	3.6	3.5	3.2
Dry (13%)	3.1	3.3	3.5	3.5	3.4	3.7	3.2	3.3	3.5	3.9	3.7	3.4
Critical (25%)	3.2	3.3	3.5	3.4	3.2	3.1	3.0	3.0	3.3	3.8	3.5	3.3

Alternative 3 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	4.4	5.0	6.5	6.3	7.2	6.5	5.3	4.6	4.6	4.9	4.6	4.6
20%	4.3	4.6	4.7	6.0	6.4	5.9	4.3	4.3	4.5	4.7	4.6	4.4
30%	4.3	4.2	4.6	5.2	5.3	5.0	4.2	4.2	4.4	4.7	4.5	4.3
40%	4.2	4.2	4.5	4.7	4.6	4.5	4.1	4.2	4.3	4.6	4.5	4.3
50%	4.2	4.1	4.4	4.6	4.4	4.4	4.0	4.2	4.3	4.6	4.4	4.3
60%	4.1	4.1	4.3	4.4	4.3	4.3	4.0	4.1	4.3	4.6	4.4	4.3
70%	4.1	4.1	4.3	4.4	4.2	4.1	4.0	4.1	4.2	4.5	4.3	4.2
80%	4.0	4.0	4.1	4.2	4.1	4.0	4.0	4.0	4.2	4.4	4.3	4.1
90%	4.0	3.9	4.1	4.1	4.0	3.9	3.8	3.9	4.2	4.3	4.2	4.1
Long Term												
Full Simulation Period[a]	4.2	4.3	4.8	4.9	5.1	4.8	4.3	4.2	4.4	4.6	4.4	4.3
Water Year Types[b]												
Wet (31%)	4.3	5.1	6.3	5.7	6.6	6.3	5.3	4.6	4.7	4.8	4.6	4.6
Above Normal (25%)	4.1	4.0	4.4	6.3	6.4	5.4	4.3	4.2	4.2	4.5	4.4	4.2
Below Normal (6%)	4.2	4.1	4.1	4.7	4.6	4.4	4.0	4.0	4.1	4.1	4.2	4.1
Dry (13%)	4.1	4.1	4.4	4.4	4.2	4.4	4.0	4.2	4.4	4.7	4.5	4.3
Critical (25%)	4.2	4.1	4.3	4.3	4.1	3.9	3.9	4.0	4.2	4.5	4.3	4.3

Alternative 3 (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.9	0.3	0.2	0.2	0.0	0.0	0.4	0.7	0.8	0.8	0.8	0.7
20%	1.1	0.5	0.8	0.5	0.1	0.3	0.8	0.8	0.9	0.8	0.7	0.9
30%	1.1	0.8	0.8	0.6	0.5	0.4	0.8	0.8	0.8	0.7	0.9	0.9
40%	1.0	0.8	0.8	0.8	0.5	0.6	0.9	0.8	0.9	0.7	0.8	0.9
50%	1.0	0.9	0.8	0.7	0.7	0.5	0.8	0.9	0.9	0.8	0.8	0.9
60%	1.0	0.8	0.8	0.8	0.8	0.5	0.9	0.8	0.9	0.8	0.8	0.9
70%	1.0	0.9	0.8	0.8	0.9	0.8	0.9	0.9	0.9	0.7	0.8	1.0
80%	1.0	0.9	0.9	1.0	0.9	0.9	0.9	0.9	0.9	0.7	0.8	0.9
90%	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.7	0.8	0.9
Long Term												
Full Simulation Period[a]	1.0	0.7	0.7	0.7	0.6	0.5	0.8	0.8	0.8	0.7	0.8	0.9
Water Year Types[b]												
Wet (31%)	0.9	0.5	0.4	0.4	0.2	0.1	0.5	0.4	0.5	0.7	0.8	0.7
Above Normal (25%)	1.1	0.9	0.8	0.2	0.4	0.3	0.6	0.7	0.8	0.8	0.8	0.8
Below Normal (6%)	1.0	0.9	1.0	0.7	0.3	0.5	0.8	0.7	0.8	0.6	0.7	0.9
Dry (13%)	0.9	0.8	0.8	0.9	0.8	0.6	0.9	0.9	0.8	0.8	0.8	0.9
Critical (25%)	1.1	0.9	0.8	0.9	0.9	0.8	0.9	1.0	0.9	0.7	0.8	1.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-26-1-5. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.5	4.7	6.3	6.1	7.1	6.5	4.9	3.9	3.8	4.1	3.9	3.9
20%	3.2	4.1	3.8	5.5	6.3	5.6	3.5	3.5	3.6	3.9	3.8	3.5
30%	3.2	3.4	3.8	4.6	4.8	4.6	3.4	3.4	3.6	3.9	3.6	3.5
40%	3.2	3.3	3.8	4.0	4.1	3.9	3.2	3.4	3.5	3.9	3.6	3.4
50%	3.2	3.3	3.5	3.9	3.7	3.9	3.1	3.3	3.4	3.9	3.6	3.4
60%	3.2	3.3	3.5	3.6	3.4	3.7	3.1	3.3	3.4	3.8	3.6	3.4
70%	3.1	3.2	3.4	3.5	3.3	3.3	3.1	3.2	3.4	3.8	3.5	3.3
80%	3.0	3.1	3.3	3.3	3.3	3.1	3.0	3.1	3.3	3.7	3.5	3.2
90%	3.0	3.0	3.2	3.2	3.1	2.9	2.9	3.0	3.3	3.6	3.5	3.2
Long Term												
Full Simulation Period[a]	3.2	3.6	4.1	4.3	4.5	4.3	3.6	3.5	3.6	3.9	3.6	3.5
Water Year Types[b]												
Wet (31%)	3.5	4.6	5.9	5.3	6.4	6.2	4.8	4.1	4.1	4.1	3.9	3.9
Above Normal (25%)	3.0	3.1	3.6	6.1	6.0	5.1	3.6	3.5	3.4	3.7	3.6	3.3
Below Normal (6%)	3.2	3.2	3.1	4.0	4.3	3.8	3.1	3.3	3.3	3.6	3.5	3.2
Dry (13%)	3.1	3.3	3.5	3.5	3.4	3.7	3.2	3.3	3.5	3.9	3.7	3.4
Critical (25%)	3.2	3.3	3.5	3.4	3.2	3.1	3.0	3.0	3.3	3.8	3.5	3.3

Alternative 4 H1 (LLT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	5.0	6.4	6.2	7.0	6.3	5.2	4.6	4.6	4.9	4.6	4.6
20%	4.2	4.6	4.6	5.9	6.2	5.8	4.3	4.3	4.5	4.7	4.6	4.4
30%	4.2	4.2	4.6	5.1	5.2	4.9	4.2	4.2	4.4	4.7	4.5	4.4
40%	4.2	4.2	4.5	4.6	4.5	4.5	4.1	4.2	4.4	4.7	4.5	4.3
50%	4.1	4.1	4.5	4.6	4.4	4.3	4.0	4.2	4.3	4.6	4.5	4.3
60%	4.1	4.1	4.3	4.4	4.3	4.3	4.0	4.1	4.3	4.6	4.4	4.3
70%	4.0	4.1	4.3	4.4	4.2	4.1	4.0	4.1	4.2	4.5	4.3	4.3
80%	4.0	4.0	4.1	4.4	4.1	3.9	3.9	4.0	4.2	4.4	4.3	4.1
90%	4.0	3.9	4.1	4.2	4.0	3.9	3.8	3.9	4.2	4.3	4.2	4.1
Long Term												
Full Simulation Period[a]	4.1	4.3	4.8	4.9	5.0	4.8	4.3	4.2	4.4	4.6	4.5	4.3
Water Year Types[b]												
Wet (31%)	4.3	5.0	6.2	5.6	6.5	6.2	5.2	4.5	4.6	4.8	4.7	4.6
Above Normal (25%)	4.0	4.0	4.4	6.2	6.2	5.3	4.2	4.2	4.2	4.6	4.4	4.2
Below Normal (6%)	4.1	4.1	4.1	4.7	4.5	4.3	4.0	4.0	4.2	4.2	4.2	4.1
Dry (13%)	4.1	4.1	4.4	4.3	4.2	4.4	4.0	4.2	4.4	4.7	4.5	4.3
Critical (25%)	4.1	4.1	4.3	4.3	4.1	3.9	3.9	4.0	4.2	4.5	4.3	4.3

Alternative 4 H1 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.9	0.3	0.1	0.1	**-0.1**	**-0.2**	0.3	0.7	0.8	0.8	0.8	0.7
20%	1.0	0.5	0.8	0.4	**-0.1**	0.2	0.8	0.8	0.9	0.8	0.7	0.9
30%	1.0	0.8	0.8	0.5	0.4	0.3	0.8	0.8	0.9	0.8	0.9	0.9
40%	1.0	0.8	0.8	0.6	0.4	0.5	0.9	0.8	0.9	0.8	0.9	0.9
50%	1.0	0.9	0.9	0.7	0.7	0.5	0.8	0.9	0.9	0.8	0.9	0.9
60%	0.9	0.8	0.8	0.8	0.8	0.5	0.9	0.8	0.9	0.8	0.9	0.9
70%	0.9	0.9	0.8	0.9	0.9	0.8	0.9	0.9	0.9	0.7	0.8	1.0
80%	1.0	0.9	0.9	1.1	0.9	0.9	0.9	0.9	0.9	0.7	0.8	0.9
90%	1.0	0.9	0.9	1.0	0.9	0.9	0.9	0.9	0.9	0.7	0.8	0.9
Long Term												
Full Simulation Period[a]	0.9	0.7	0.7	0.6	0.5	0.5	0.7	0.8	0.8	0.7	0.8	0.9
Water Year Types[b]												
Wet (31%)	0.8	0.4	0.3	0.3	0.1	**-0.1**	0.4	0.4	0.5	0.7	0.8	0.7
Above Normal (25%)	1.0	0.8	0.8	0.1	0.2	0.2	0.6	0.7	0.8	0.9	0.8	0.9
Below Normal (6%)	0.9	0.9	1.0	0.8	0.3	0.5	0.9	0.7	0.9	0.6	0.7	0.9
Dry (13%)	0.9	0.8	0.8	0.8	0.8	0.6	0.9	0.9	0.9	0.8	0.8	0.9
Critical (25%)	1.0	0.9	0.9	0.9	0.9	0.8	0.9	1.0	0.9	0.7	0.8	0.9

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-26-1-6. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	3.5	4.7	6.3	6.1	7.1	6.5	4.9	3.9	3.8	4.1	3.9	3.9
20%	3.2	4.1	3.8	5.5	6.3	5.6	3.5	3.5	3.6	3.9	3.8	3.5
30%	3.2	3.4	3.8	4.6	4.8	4.6	3.4	3.4	3.6	3.9	3.6	3.5
40%	3.2	3.3	3.8	4.0	4.1	3.9	3.2	3.4	3.5	3.9	3.6	3.4
50%	3.2	3.3	3.5	3.9	3.7	3.9	3.1	3.3	3.4	3.9	3.6	3.4
60%	3.2	3.3	3.5	3.6	3.4	3.7	3.1	3.3	3.4	3.8	3.6	3.4
70%	3.1	3.2	3.4	3.5	3.3	3.3	3.1	3.2	3.4	3.8	3.5	3.3
80%	3.0	3.1	3.3	3.3	3.3	3.1	3.0	3.1	3.3	3.7	3.5	3.2
90%	3.0	3.0	3.2	3.2	3.1	2.9	2.9	3.0	3.3	3.6	3.5	3.2
Long Term												
Full Simulation Period[a]	3.2	3.6	4.1	4.3	4.5	4.3	3.6	3.5	3.6	3.9	3.6	3.5
Water Year Types[b]												
Wet (31%)	3.5	4.6	5.9	5.3	6.4	6.2	4.8	4.1	4.1	4.1	3.9	3.9
Above Normal (25%)	3.0	3.1	3.6	6.1	6.0	5.1	3.6	3.5	3.4	3.7	3.6	3.3
Below Normal (6%)	3.2	3.2	3.1	4.0	4.3	3.8	3.1	3.3	3.3	3.6	3.5	3.2
Dry (13%)	3.1	3.3	3.5	3.5	3.4	3.7	3.2	3.3	3.5	3.9	3.7	3.4
Critical (25%)	3.2	3.3	3.5	3.4	3.2	3.1	3.0	3.0	3.3	3.8	3.5	3.3

Alternative 4 H2 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	4.4	5.0	6.4	6.2	7.0	6.3	5.2	4.6	4.6	4.8	4.6	4.6
20%	4.3	4.6	4.6	5.9	6.2	5.8	4.3	4.3	4.5	4.7	4.5	4.4
30%	4.2	4.2	4.6	5.1	5.2	5.0	4.2	4.3	4.4	4.7	4.5	4.4
40%	4.2	4.2	4.5	4.6	4.6	4.5	4.2	4.2	4.3	4.6	4.5	4.3
50%	4.1	4.1	4.4	4.6	4.4	4.3	4.1	4.2	4.3	4.5	4.4	4.3
60%	4.0	4.1	4.4	4.4	4.3	4.3	4.0	4.2	4.2	4.5	4.4	4.3
70%	4.0	4.1	4.3	4.4	4.2	4.1	4.0	4.0	4.2	4.5	4.4	4.2
80%	4.0	4.0	4.1	4.4	4.1	4.0	3.9	4.0	4.2	4.4	4.3	4.1
90%	4.0	3.9	4.0	4.2	4.0	3.9	3.8	3.9	4.1	4.3	4.2	4.1
Long Term												
Full Simulation Period[a]	4.2	4.3	4.8	4.9	5.0	4.8	4.3	4.2	4.3	4.6	4.5	4.3
Water Year Types[b]												
Wet (31%)	4.3	5.0	6.2	5.6	6.4	6.2	5.3	4.6	4.6	4.8	4.7	4.6
Above Normal (25%)	4.0	4.0	4.5	6.2	6.3	5.3	4.4	4.3	4.2	4.4	4.4	4.2
Below Normal (6%)	4.0	4.1	4.0	4.7	4.6	4.4	4.0	4.0	4.2	4.2	4.2	4.1
Dry (13%)	4.1	4.1	4.3	4.3	4.2	4.4	4.0	4.2	4.4	4.6	4.5	4.2
Critical (25%)	4.2	4.1	4.3	4.3	4.1	3.9	3.9	4.0	4.2	4.5	4.3	4.3

Alternative 4 H2 (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.9	0.3	0.1	0.1	**-0.1**	**-0.2**	0.3	0.7	0.8	0.7	0.8	0.7
20%	1.0	0.5	0.8	0.4	**-0.1**	0.2	0.8	0.8	0.9	0.8	0.7	0.9
30%	1.0	0.8	0.8	0.5	0.4	0.4	0.9	0.9	0.8	0.7	0.9	0.9
40%	1.0	0.8	0.8	0.6	0.5	0.6	0.9	0.8	0.8	0.7	0.9	0.9
50%	0.9	0.9	0.8	0.7	0.7	0.5	1.0	0.9	0.9	0.7	0.8	0.9
60%	0.9	0.8	0.9	0.8	0.8	0.5	0.9	0.9	0.8	0.7	0.8	0.9
70%	1.0	0.9	0.8	0.9	0.9	0.8	0.9	0.9	0.8	0.7	0.8	1.0
80%	1.0	0.9	0.9	1.1	0.9	0.9	0.9	0.9	0.9	0.7	0.8	0.9
90%	0.9	0.9	0.9	1.0	0.9	0.9	0.9	0.9	0.9	0.7	0.8	0.9
Long Term												
Full Simulation Period[a]	0.9	0.7	0.7	0.6	0.5	0.5	0.8	0.8	0.8	0.7	0.8	0.9
Water Year Types[b]												
Wet (31%)	0.8	0.4	0.3	0.3	0.1	**-0.1**	0.5	0.4	0.5	0.7	0.8	0.7
Above Normal (25%)	1.0	0.8	0.9	0.1	0.2	0.2	0.8	0.8	0.8	0.7	0.9	0.9
Below Normal (6%)	0.9	0.9	0.9	0.7	0.3	0.6	0.9	0.7	0.9	0.6	0.7	0.9
Dry (13%)	0.9	0.8	0.8	0.8	0.8	0.6	0.9	0.9	0.8	0.7	0.8	0.9
Critical (25%)	1.0	0.9	0.8	0.9	0.9	0.8	0.9	1.0	0.9	0.7	0.9	1.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-26-1-7. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	3.5	4.7	6.3	6.1	7.1	6.5	4.9	3.9	3.8	4.1	3.9	3.9
20%	3.2	4.1	3.8	5.5	6.3	5.6	3.5	3.5	3.6	3.9	3.8	3.5
30%	3.2	3.4	3.8	4.6	4.8	4.6	3.4	3.4	3.6	3.9	3.6	3.5
40%	3.2	3.3	3.8	4.0	4.1	3.9	3.2	3.4	3.5	3.9	3.6	3.4
50%	3.2	3.3	3.5	3.9	3.7	3.9	3.1	3.3	3.4	3.9	3.6	3.4
60%	3.2	3.3	3.5	3.6	3.4	3.7	3.1	3.3	3.4	3.8	3.6	3.4
70%	3.1	3.2	3.4	3.5	3.3	3.3	3.1	3.2	3.4	3.8	3.5	3.3
80%	3.0	3.1	3.3	3.3	3.3	3.1	3.0	3.1	3.3	3.7	3.5	3.2
90%	3.0	3.0	3.2	3.2	3.1	2.9	2.9	3.0	3.3	3.6	3.5	3.2
Long Term												
Full Simulation Period[a]	3.2	3.6	4.1	4.3	4.5	4.3	3.6	3.5	3.6	3.9	3.6	3.5
Water Year Types[b]												
Wet (31%)	3.5	4.6	5.9	5.3	6.4	6.2	4.8	4.1	4.1	4.1	3.9	3.9
Above Normal (25%)	3.0	3.1	3.6	6.1	6.0	5.1	3.6	3.5	3.4	3.7	3.6	3.3
Below Normal (6%)	3.2	3.2	3.1	4.0	4.3	3.8	3.1	3.3	3.3	3.6	3.5	3.2
Dry (13%)	3.1	3.3	3.5	3.5	3.4	3.7	3.2	3.3	3.5	3.9	3.7	3.4
Critical (25%)	3.2	3.3	3.5	3.4	3.2	3.1	3.0	3.0	3.3	3.8	3.5	3.3

Alternative 4 H3 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	4.3	5.0	6.3	6.1	7.0	6.3	5.2	4.6	4.6	4.9	4.6	4.8
20%	4.2	4.6	4.6	5.9	6.2	5.8	4.3	4.3	4.5	4.7	4.6	4.6
30%	4.2	4.3	4.6	5.1	5.2	4.8	4.2	4.2	4.4	4.7	4.5	4.4
40%	4.2	4.2	4.5	4.6	4.5	4.5	4.1	4.2	4.4	4.7	4.5	4.3
50%	4.1	4.1	4.5	4.6	4.4	4.3	4.0	4.2	4.3	4.6	4.4	4.3
60%	4.0	4.1	4.4	4.5	4.3	4.3	4.0	4.1	4.3	4.6	4.4	4.3
70%	4.0	4.1	4.3	4.4	4.2	4.1	3.9	4.1	4.2	4.5	4.4	4.3
80%	4.0	4.0	4.1	4.4	4.1	3.9	3.9	4.0	4.2	4.4	4.3	4.2
90%	4.0	3.9	4.0	4.1	4.0	3.9	3.8	3.9	4.1	4.3	4.2	4.1
Long Term												
Full Simulation Period[a]	4.1	4.3	4.8	4.9	5.0	4.8	4.3	4.2	4.4	4.6	4.4	4.4
Water Year Types[b]												
Wet (31%)	4.3	5.0	6.2	5.6	6.4	6.2	5.2	4.5	4.6	4.8	4.7	4.8
Above Normal (25%)	4.0	4.0	4.5	6.1	6.2	5.3	4.2	4.2	4.2	4.6	4.4	4.3
Below Normal (6%)	4.0	4.1	4.0	4.7	4.5	4.3	4.0	4.0	4.2	4.2	4.2	4.1
Dry (13%)	4.1	4.2	4.4	4.3	4.2	4.3	4.0	4.2	4.4	4.7	4.5	4.3
Critical (25%)	4.1	4.1	4.3	4.3	4.1	3.9	3.9	4.0	4.2	4.5	4.3	4.2

Alternative 4 H3 (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.8	0.3	0.0	0.1	**-0.1**	**-0.2**	0.3	0.7	0.8	0.8	0.8	1.0
20%	1.0	0.5	0.8	0.4	**-0.1**	0.2	0.8	0.8	0.9	0.8	0.7	1.1
30%	1.0	0.9	0.8	0.5	0.4	0.2	0.8	0.8	0.9	0.8	0.9	0.9
40%	1.0	0.8	0.8	0.6	0.4	0.6	0.9	0.8	0.9	0.8	0.8	0.9
50%	0.9	0.9	0.9	0.7	0.7	0.5	0.8	0.9	0.9	0.8	0.8	0.9
60%	0.9	0.9	0.9	0.9	0.8	0.5	0.9	0.9	0.9	0.8	0.8	0.9
70%	0.9	0.9	0.8	0.9	0.9	0.8	0.9	0.9	0.9	0.7	0.8	1.0
80%	1.0	0.9	0.8	1.1	0.9	0.9	0.9	0.9	0.9	0.7	0.8	0.9
90%	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.7	0.8	0.9
Long Term												
Full Simulation Period[a]	0.9	0.7	0.7	0.6	0.5	0.4	0.7	0.8	0.8	0.7	0.8	0.9
Water Year Types[b]												
Wet (31%)	0.8	0.4	0.3	0.3	0.1	**-0.1**	0.4	0.4	0.5	0.7	0.8	0.9
Above Normal (25%)	1.0	0.8	0.9	0.0	0.2	0.2	0.6	0.7	0.8	0.9	0.8	1.0
Below Normal (6%)	0.9	0.9	0.9	0.7	0.3	0.5	0.9	0.7	0.9	0.6	0.7	0.8
Dry (13%)	0.9	0.8	0.8	0.8	0.8	0.6	0.9	0.9	0.9	0.8	0.8	0.9
Critical (25%)	0.9	0.9	0.9	0.9	0.9	0.8	0.9	1.0	0.9	0.7	0.8	0.9

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-26-1-8. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.5	4.7	6.3	6.1	7.1	6.5	4.9	3.9	3.8	4.1	3.9	3.9
20%	3.2	4.1	3.8	5.5	6.3	5.6	3.5	3.5	3.6	3.9	3.8	3.5
30%	3.2	3.4	3.8	4.6	4.8	4.6	3.4	3.4	3.6	3.9	3.6	3.5
40%	3.2	3.3	3.8	4.0	4.1	3.9	3.2	3.4	3.5	3.9	3.6	3.4
50%	3.2	3.3	3.5	3.9	3.7	3.9	3.1	3.3	3.4	3.9	3.6	3.4
60%	3.2	3.3	3.5	3.6	3.4	3.7	3.1	3.3	3.4	3.8	3.6	3.4
70%	3.1	3.2	3.4	3.5	3.3	3.3	3.1	3.2	3.4	3.8	3.5	3.3
80%	3.0	3.1	3.3	3.3	3.3	3.1	3.0	3.1	3.3	3.7	3.5	3.2
90%	3.0	3.0	3.2	3.2	3.1	2.9	2.9	3.0	3.3	3.6	3.5	3.2
Long Term												
Full Simulation Period[a]	3.2	3.6	4.1	4.3	4.5	4.3	3.6	3.5	3.6	3.9	3.6	3.5
Water Year Types[b]												
Wet (31%)	3.5	4.6	5.9	5.3	6.4	6.2	4.8	4.1	4.1	4.1	3.9	3.9
Above Normal (25%)	3.0	3.1	3.6	6.1	6.0	5.1	3.6	3.5	3.4	3.7	3.6	3.3
Below Normal (6%)	3.2	3.2	3.1	4.0	4.3	3.8	3.1	3.3	3.3	3.6	3.5	3.2
Dry (13%)	3.1	3.3	3.5	3.5	3.4	3.7	3.2	3.3	3.5	3.9	3.7	3.4
Critical (25%)	3.2	3.3	3.5	3.4	3.2	3.1	3.0	3.0	3.3	3.8	3.5	3.3

Alternative 4 H4 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	4.9	6.3	6.2	7.0	6.3	5.2	4.6	4.6	4.8	4.6	4.8
20%	4.2	4.6	4.6	5.9	6.2	5.8	4.3	4.3	4.5	4.7	4.6	4.6
30%	4.2	4.3	4.6	5.1	5.2	5.0	4.2	4.3	4.4	4.6	4.5	4.4
40%	4.2	4.2	4.5	4.6	4.6	4.5	4.2	4.2	4.3	4.6	4.5	4.3
50%	4.1	4.1	4.4	4.5	4.4	4.3	4.1	4.2	4.3	4.5	4.4	4.3
60%	4.1	4.1	4.4	4.4	4.3	4.3	4.0	4.2	4.2	4.5	4.4	4.3
70%	4.0	4.1	4.3	4.4	4.2	4.1	4.0	4.1	4.2	4.5	4.4	4.3
80%	4.0	4.0	4.1	4.2	4.1	4.0	3.9	4.0	4.2	4.4	4.3	4.2
90%	4.0	3.9	4.1	4.1	4.0	3.9	3.8	3.9	4.1	4.3	4.2	4.1
Long Term												
Full Simulation Period[a]	4.1	4.3	4.8	4.9	5.0	4.8	4.3	4.2	4.3	4.6	4.5	4.4
Water Year Types[b]												
Wet (31%)	4.3	5.0	6.1	5.6	6.4	6.2	5.3	4.6	4.6	4.8	4.7	4.8
Above Normal (25%)	4.0	4.0	4.5	6.2	6.2	5.3	4.4	4.3	4.2	4.4	4.4	4.3
Below Normal (6%)	4.0	4.1	4.1	4.7	4.6	4.3	4.0	4.0	4.2	4.2	4.2	4.1
Dry (13%)	4.1	4.2	4.3	4.3	4.2	4.4	4.0	4.2	4.4	4.6	4.5	4.2
Critical (25%)	4.1	4.1	4.3	4.3	4.1	3.9	3.9	4.0	4.2	4.5	4.4	4.3

Alternative 4 H4 (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.8	0.2	0.0	0.1	-0.1	-0.2	0.3	0.7	0.8	0.7	0.8	1.0
20%	1.0	0.5	0.8	0.4	-0.1	0.2	0.8	0.8	0.9	0.8	0.7	1.1
30%	1.0	0.9	0.8	0.5	0.4	0.3	0.9	0.9	0.8	0.7	0.9	0.9
40%	1.0	0.8	0.8	0.6	0.5	0.6	0.9	0.8	0.8	0.7	0.9	0.9
50%	0.9	0.9	0.8	0.7	0.7	0.5	1.0	0.9	0.9	0.7	0.8	0.9
60%	1.0	0.9	0.9	0.8	0.8	0.5	0.9	0.9	0.8	0.7	0.9	0.9
70%	0.9	0.9	0.8	0.9	0.9	0.8	0.9	0.9	0.8	0.7	0.8	1.0
80%	0.9	0.9	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.7	0.9	0.9
90%	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.7	0.8	0.9
Long Term												
Full Simulation Period[a]	0.9	0.7	0.7	0.6	0.5	0.5	0.8	0.8	0.8	0.7	0.8	0.9
Water Year Types[b]												
Wet (31%)	0.9	0.4	0.2	0.3	0.1	-0.1	0.5	0.4	0.5	0.7	0.8	0.9
Above Normal (25%)	1.0	0.8	0.9	0.1	0.2	0.2	0.8	0.8	0.8	0.7	0.9	1.0
Below Normal (6%)	0.8	0.9	1.0	0.8	0.3	0.5	0.9	0.7	0.9	0.6	0.7	0.9
Dry (13%)	0.9	0.8	0.8	0.8	0.8	0.6	0.9	0.9	0.8	0.7	0.8	0.9
Critical (25%)	0.9	0.9	0.8	0.8	0.9	0.8	0.9	1.0	0.9	0.7	0.9	1.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-26-1-9. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	3.5	4.7	6.3	6.1	7.1	6.5	4.9	3.9	3.8	4.1	3.9	3.9
20%	3.2	4.1	3.8	5.5	6.3	5.6	3.5	3.5	3.6	3.9	3.8	3.5
30%	3.2	3.4	3.8	4.6	4.8	4.6	3.4	3.4	3.6	3.9	3.6	3.5
40%	3.2	3.3	3.8	4.0	4.1	3.9	3.2	3.4	3.5	3.9	3.6	3.4
50%	3.2	3.3	3.5	3.9	3.7	3.9	3.1	3.3	3.4	3.9	3.6	3.4
60%	3.2	3.3	3.5	3.6	3.4	3.7	3.1	3.3	3.4	3.8	3.6	3.4
70%	3.1	3.2	3.4	3.5	3.3	3.3	3.1	3.2	3.4	3.8	3.5	3.3
80%	3.0	3.1	3.3	3.3	3.3	3.1	3.0	3.1	3.3	3.7	3.5	3.2
90%	3.0	3.0	3.2	3.2	3.1	2.9	2.9	3.0	3.3	3.6	3.5	3.2
Long Term												
Full Simulation Period[a]	3.2	3.6	4.1	4.3	4.5	4.3	3.6	3.5	3.6	3.9	3.6	3.5
Water Year Types[b]												
Wet (31%)	3.5	4.6	5.9	5.3	6.4	6.2	4.8	4.1	4.1	4.1	3.9	3.9
Above Normal (25%)	3.0	3.1	3.6	6.1	6.0	5.1	3.6	3.5	3.4	3.7	3.6	3.3
Below Normal (6%)	3.2	3.2	3.1	4.0	4.3	3.8	3.1	3.3	3.3	3.6	3.5	3.2
Dry (13%)	3.1	3.3	3.5	3.5	3.4	3.7	3.2	3.3	3.5	3.9	3.7	3.4
Critical (25%)	3.2	3.3	3.5	3.4	3.2	3.1	3.0	3.0	3.3	3.8	3.5	3.3

Alternative 5 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	4.3	5.0	6.6	6.5	7.3	6.6	5.4	4.6	4.6	4.9	4.7	4.8
20%	4.3	4.6	4.6	6.1	6.5	6.0	4.3	4.3	4.5	4.8	4.6	4.7
30%	4.2	4.3	4.6	5.2	5.3	5.1	4.2	4.2	4.4	4.7	4.5	4.3
40%	4.2	4.2	4.5	4.6	4.6	4.5	4.1	4.2	4.4	4.7	4.5	4.3
50%	4.1	4.2	4.4	4.6	4.4	4.4	4.0	4.2	4.3	4.6	4.4	4.3
60%	4.0	4.1	4.3	4.4	4.3	4.3	4.0	4.1	4.3	4.6	4.4	4.3
70%	4.0	4.1	4.3	4.4	4.2	4.1	4.0	4.1	4.2	4.5	4.3	4.2
80%	4.0	4.0	4.1	4.3	4.2	4.0	3.9	4.0	4.2	4.5	4.3	4.2
90%	3.9	3.9	4.1	4.1	4.0	3.9	3.8	3.9	4.1	4.4	4.2	4.1
Long Term												
Full Simulation Period[a]	4.1	4.4	4.8	5.0	5.1	4.9	4.4	4.2	4.4	4.6	4.4	4.4
Water Year Types[b]												
Wet (31%)	4.3	5.1	6.3	5.8	6.7	6.4	5.4	4.6	4.7	4.8	4.7	4.9
Above Normal (25%)	3.9	4.0	4.4	6.4	6.5	5.5	4.3	4.2	4.2	4.6	4.4	4.3
Below Normal (6%)	4.0	4.1	4.1	4.7	4.6	4.4	4.0	4.0	4.2	4.3	4.2	4.1
Dry (13%)	4.1	4.1	4.3	4.3	4.2	4.4	4.0	4.2	4.4	4.7	4.5	4.2
Critical (25%)	4.1	4.1	4.3	4.3	4.1	3.9	3.9	4.0	4.2	4.5	4.3	4.2

Alternative 5 (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.8	0.3	0.3	0.4	0.2	0.1	0.5	0.7	0.8	0.8	0.8	1.0
20%	1.0	0.5	0.8	0.6	0.2	0.4	0.8	0.8	0.9	0.8	0.7	1.2
30%	1.0	0.9	0.8	0.6	0.5	0.4	0.8	0.8	0.9	0.8	0.9	0.9
40%	1.0	0.9	0.8	0.7	0.5	0.6	0.9	0.8	0.9	0.8	0.9	0.9
50%	0.9	0.9	0.8	0.7	0.7	0.5	0.9	0.9	0.9	0.8	0.8	0.9
60%	0.9	0.9	0.8	0.8	0.8	0.5	0.9	0.8	0.9	0.8	0.8	0.9
70%	0.9	0.9	0.8	0.9	0.9	0.8	0.9	0.9	0.9	0.7	0.8	1.0
80%	0.9	0.9	0.9	1.1	0.9	0.9	0.9	0.9	0.9	0.8	0.8	1.0
90%	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.7	0.9
Long Term												
Full Simulation Period[a]	0.9	0.8	0.7	0.7	0.6	0.6	0.8	0.8	0.8	0.8	0.8	0.9
Water Year Types[b]												
Wet (31%)	0.8	0.5	0.4	0.5	0.3	0.2	0.6	0.4	0.5	0.7	0.8	1.0
Above Normal (25%)	0.9	0.9	0.8	0.3	0.5	0.4	0.7	0.7	0.9	0.9	0.8	1.0
Below Normal (6%)	0.8	0.9	1.0	0.7	0.3	0.6	0.9	0.7	0.9	0.7	0.7	0.8
Dry (13%)	0.9	0.8	0.8	0.8	0.8	0.6	0.9	0.9	0.8	0.8	0.8	0.9
Critical (25%)	1.0	0.9	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.7	0.8	0.9

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-26-1-10. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	3.5	4.7	6.3	6.1	7.1	6.5	4.9	3.9	3.8	4.1	3.9	3.9
20%	3.2	4.1	3.8	5.5	6.3	5.6	3.5	3.5	3.6	3.9	3.8	3.5
30%	3.2	3.4	3.8	4.6	4.8	4.6	3.4	3.4	3.6	3.9	3.6	3.5
40%	3.2	3.3	3.8	4.0	4.1	3.9	3.2	3.4	3.5	3.9	3.6	3.4
50%	3.2	3.3	3.5	3.9	3.7	3.9	3.1	3.3	3.4	3.9	3.6	3.4
60%	3.2	3.3	3.5	3.6	3.4	3.7	3.1	3.3	3.4	3.8	3.6	3.4
70%	3.1	3.2	3.4	3.5	3.3	3.3	3.1	3.2	3.4	3.8	3.5	3.3
80%	3.0	3.1	3.3	3.3	3.3	3.1	3.0	3.1	3.3	3.7	3.5	3.2
90%	3.0	3.0	3.2	3.2	3.1	2.9	2.9	3.0	3.3	3.6	3.5	3.2
Long Term												
Full Simulation Period[a]	3.2	3.6	4.1	4.3	4.5	4.3	3.6	3.5	3.6	3.9	3.6	3.5
Water Year Types[b]												
Wet (31%)	3.5	4.6	5.9	5.3	6.4	6.2	4.8	4.1	4.1	4.1	3.9	3.9
Above Normal (25%)	3.0	3.1	3.6	6.1	6.0	5.1	3.6	3.5	3.4	3.7	3.6	3.3
Below Normal (6%)	3.2	3.2	3.1	4.0	4.3	3.8	3.1	3.3	3.3	3.6	3.5	3.2
Dry (13%)	3.1	3.3	3.5	3.5	3.4	3.7	3.2	3.3	3.5	3.9	3.7	3.4
Critical (25%)	3.2	3.3	3.5	3.4	3.2	3.1	3.0	3.0	3.3	3.8	3.5	3.3

Alternative 6A,6B,6C (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	4.3	5.1	6.3	6.0	6.7	6.1	5.2	4.5	4.5	4.8	4.7	4.8
20%	4.2	4.6	4.6	5.6	5.9	5.6	4.3	4.3	4.4	4.6	4.6	4.6
30%	4.2	4.3	4.6	5.1	5.1	4.8	4.2	4.2	4.4	4.6	4.5	4.4
40%	4.1	4.2	4.6	4.6	4.5	4.4	4.1	4.2	4.3	4.6	4.5	4.4
50%	4.1	4.2	4.4	4.6	4.5	4.3	4.0	4.2	4.3	4.6	4.5	4.3
60%	4.1	4.2	4.3	4.4	4.4	4.3	4.0	4.1	4.2	4.5	4.4	4.3
70%	4.0	4.1	4.3	4.4	4.2	4.1	4.0	4.0	4.2	4.5	4.4	4.3
80%	4.0	4.0	4.1	4.2	4.1	4.0	3.9	4.0	4.1	4.5	4.3	4.2
90%	4.0	3.9	4.0	4.1	4.0	3.8	3.8	3.9	4.1	4.3	4.3	4.1
Long Term												
Full Simulation Period[a]	4.1	4.4	4.8	4.8	4.9	4.7	4.3	4.2	4.3	4.6	4.5	4.4
Water Year Types[b]												
Wet (31%)	4.3	5.0	6.1	5.5	6.2	6.0	5.1	4.5	4.6	4.8	4.7	4.8
Above Normal (25%)	3.9	4.0	4.4	6.0	6.0	5.2	4.2	4.2	4.1	4.5	4.4	4.2
Below Normal (6%)	4.1	4.1	4.0	4.7	4.5	4.3	4.0	4.0	4.2	4.3	4.3	4.2
Dry (13%)	4.1	4.2	4.3	4.3	4.2	4.3	4.0	4.2	4.3	4.6	4.5	4.3
Critical (25%)	4.1	4.2	4.3	4.3	4.1	3.9	3.9	4.0	4.2	4.5	4.4	4.3

Alternative 6A,6B,6C (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.8	0.4	**0.0**	**-0.1**	**-0.4**	**-0.4**	0.2	0.6	0.8	0.7	0.8	0.9
20%	1.0	0.5	0.8	0.2	**-0.4**	0.1	0.8	0.7	0.8	0.7	0.7	1.1
30%	1.0	0.9	0.8	0.5	0.3	0.2	0.8	0.8	0.8	0.7	0.9	0.9
40%	1.0	0.9	0.8	0.7	0.4	0.5	0.9	0.8	0.8	0.7	0.9	0.9
50%	0.9	0.9	0.8	0.7	0.7	0.5	0.8	0.9	0.8	0.7	0.9	0.9
60%	0.9	0.9	0.8	0.8	0.9	0.5	0.8	0.8	0.8	0.7	0.8	1.0
70%	1.0	0.9	0.8	0.9	0.9	0.8	0.9	0.9	0.8	0.7	0.8	1.0
80%	1.0	0.9	0.8	0.9	0.9	0.9	0.9	0.9	0.8	0.7	0.8	1.0
90%	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.9
Long Term												
Full Simulation Period[a]	0.9	0.8	0.7	0.6	0.5	0.4	0.7	0.7	0.7	0.7	0.8	0.9
Water Year Types[b]												
Wet (31%)	0.9	0.4	0.2	0.2	**-0.1**	**-0.2**	0.4	0.4	0.4	0.7	0.8	0.9
Above Normal (25%)	0.9	0.9	0.8	**-0.1**	**0.0**	0.1	0.6	0.7	0.8	0.8	0.8	0.9
Below Normal (6%)	0.9	0.9	0.9	0.8	0.3	0.5	0.9	0.7	0.9	0.7	0.8	0.9
Dry (13%)	1.0	0.8	0.8	0.8	0.8	0.6	0.9	0.9	0.8	0.7	0.8	0.9
Critical (25%)	0.9	0.9	0.8	0.8	0.9	0.8	0.9	0.9	0.9	0.7	0.9	1.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-26-1-11. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.5	4.7	6.3	6.1	7.1	6.5	4.9	3.9	3.8	4.1	3.9	3.9
20%	3.2	4.1	3.8	5.5	6.3	5.6	3.5	3.5	3.6	3.9	3.8	3.5
30%	3.2	3.4	3.8	4.6	4.8	4.6	3.4	3.4	3.6	3.9	3.6	3.5
40%	3.2	3.3	3.8	4.0	4.1	3.9	3.2	3.4	3.5	3.9	3.6	3.4
50%	3.2	3.3	3.5	3.9	3.7	3.9	3.1	3.3	3.4	3.9	3.6	3.4
60%	3.2	3.3	3.5	3.6	3.4	3.7	3.1	3.3	3.4	3.8	3.6	3.4
70%	3.1	3.2	3.4	3.5	3.3	3.3	3.1	3.2	3.4	3.8	3.5	3.3
80%	3.0	3.1	3.3	3.3	3.3	3.1	3.0	3.1	3.3	3.7	3.5	3.2
90%	3.0	3.0	3.2	3.2	3.1	2.9	2.9	3.0	3.3	3.6	3.5	3.2
Long Term												
Full Simulation Period[a]	3.2	3.6	4.1	4.3	4.5	4.3	3.6	3.5	3.6	3.9	3.6	3.5
Water Year Types[b]												
Wet (31%)	3.5	4.6	5.9	5.3	6.4	6.2	4.8	4.1	4.1	4.1	3.9	3.9
Above Normal (25%)	3.0	3.1	3.6	6.1	6.0	5.1	3.6	3.5	3.4	3.7	3.6	3.3
Below Normal (6%)	3.2	3.2	3.1	4.0	4.3	3.8	3.1	3.3	3.3	3.6	3.5	3.2
Dry (13%)	3.1	3.3	3.5	3.5	3.4	3.7	3.2	3.3	3.5	3.9	3.7	3.4
Critical (25%)	3.2	3.3	3.5	3.4	3.2	3.1	3.0	3.0	3.3	3.8	3.5	3.3

Alternative 7 (LLT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	5.0	6.5	6.2	7.0	6.3	5.2	4.5	4.6	4.8	4.7	4.8
20%	4.2	4.6	4.6	5.9	6.2	5.7	4.3	4.3	4.5	4.8	4.6	4.6
30%	4.2	4.3	4.6	5.1	5.2	4.9	4.2	4.2	4.4	4.7	4.5	4.4
40%	4.2	4.2	4.6	4.6	4.5	4.4	4.1	4.2	4.4	4.6	4.5	4.3
50%	4.1	4.2	4.4	4.6	4.5	4.3	4.0	4.2	4.3	4.6	4.4	4.3
60%	4.1	4.2	4.3	4.4	4.4	4.3	4.0	4.1	4.3	4.6	4.4	4.3
70%	4.0	4.1	4.3	4.4	4.2	4.1	4.0	4.0	4.2	4.5	4.4	4.3
80%	4.0	4.0	4.1	4.2	4.1	4.0	3.9	4.0	4.2	4.5	4.3	4.2
90%	4.0	3.9	4.1	4.1	4.0	3.8	3.8	3.9	4.1	4.4	4.3	4.1
Long Term												
Full Simulation Period[a]	4.1	4.4	4.8	4.9	5.0	4.8	4.3	4.2	4.4	4.6	4.5	4.4
Water Year Types[b]												
Wet (31%)	4.3	5.0	6.2	5.6	6.4	6.2	5.2	4.5	4.7	4.8	4.6	4.9
Above Normal (25%)	3.9	4.0	4.4	6.2	6.2	5.3	4.2	4.2	4.2	4.5	4.4	4.3
Below Normal (6%)	4.1	4.1	4.0	4.7	4.5	4.4	4.0	4.0	4.1	4.3	4.3	4.1
Dry (13%)	4.1	4.2	4.3	4.3	4.2	4.3	4.0	4.2	4.4	4.7	4.5	4.2
Critical (25%)	4.1	4.2	4.3	4.3	4.1	3.9	3.9	4.0	4.2	4.5	4.4	4.2

Alternative 7 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.8	0.4	0.2	0.1	**-0.1**	**-0.2**	0.3	0.6	0.8	0.8	0.8	1.0
20%	1.0	0.5	0.8	0.4	**-0.1**	0.2	0.8	0.7	0.8	0.8	0.8	1.1
30%	1.0	0.9	0.8	0.5	0.4	0.2	0.8	0.8	0.8	0.8	0.9	0.9
40%	1.0	0.9	0.8	0.6	0.4	0.5	0.9	0.8	0.9	0.7	0.9	0.9
50%	0.9	0.9	0.8	0.7	0.7	0.5	0.8	0.9	0.9	0.7	0.8	0.9
60%	0.9	0.9	0.8	0.8	0.9	0.5	0.9	0.8	0.9	0.8	0.8	0.9
70%	1.0	0.9	0.8	0.9	0.9	0.8	0.9	0.9	0.9	0.7	0.8	1.0
80%	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.7	0.9	1.0
90%	0.9	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.9
Long Term												
Full Simulation Period[a]	0.9	0.8	0.7	0.6	0.5	0.4	0.7	0.8	0.8	0.7	0.8	0.9
Water Year Types[b]												
Wet (31%)	0.9	0.4	0.3	0.3	0.1	**-0.1**	0.4	0.4	0.5	0.7	0.8	0.9
Above Normal (25%)	0.9	0.9	0.8	0.1	0.2	0.2	0.6	0.7	0.8	0.8	0.8	1.0
Below Normal (6%)	0.9	0.9	0.9	0.8	0.3	0.5	0.9	0.7	0.8	0.7	0.8	0.9
Dry (13%)	1.0	0.8	0.8	0.8	0.8	0.6	0.9	0.9	0.8	0.8	0.8	0.9
Critical (25%)	0.9	0.9	0.8	0.8	0.9	0.8	0.9	1.0	0.9	0.7	0.9	0.9

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-26-1-12. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	3.5	4.7	6.3	6.1	7.1	6.5	4.9	3.9	3.8	4.1	3.9	3.9
20%	3.2	4.1	3.8	5.5	6.3	5.6	3.5	3.5	3.6	3.9	3.8	3.5
30%	3.2	3.4	3.8	4.6	4.8	4.6	3.4	3.4	3.6	3.9	3.6	3.5
40%	3.2	3.3	3.8	4.0	4.1	3.9	3.2	3.4	3.5	3.9	3.6	3.4
50%	3.2	3.3	3.5	3.9	3.7	3.9	3.1	3.3	3.4	3.9	3.6	3.4
60%	3.2	3.3	3.5	3.6	3.4	3.7	3.1	3.3	3.4	3.8	3.6	3.4
70%	3.1	3.2	3.4	3.5	3.3	3.3	3.1	3.2	3.4	3.8	3.5	3.3
80%	3.0	3.1	3.3	3.3	3.3	3.1	3.0	3.1	3.3	3.7	3.5	3.2
90%	3.0	3.0	3.2	3.2	3.1	2.9	2.9	3.0	3.3	3.6	3.5	3.2
Long Term												
Full Simulation Period[a]	3.2	3.6	4.1	4.3	4.5	4.3	3.6	3.5	3.6	3.9	3.6	3.5
Water Year Types[b]												
Wet (31%)	3.5	4.6	5.9	5.3	6.4	6.2	4.8	4.1	4.1	4.1	3.9	3.9
Above Normal (25%)	3.0	3.1	3.6	6.1	6.0	5.1	3.6	3.5	3.4	3.7	3.6	3.3
Below Normal (6%)	3.2	3.2	3.1	4.0	4.3	3.8	3.1	3.3	3.3	3.6	3.5	3.2
Dry (13%)	3.1	3.3	3.5	3.5	3.4	3.7	3.2	3.3	3.5	3.9	3.7	3.4
Critical (25%)	3.2	3.3	3.5	3.4	3.2	3.1	3.0	3.0	3.3	3.8	3.5	3.3

Alternative 8 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	4.3	5.1	6.5	6.2	7.0	6.3	5.3	4.6	4.6	4.7	4.6	4.8
20%	4.2	4.6	4.6	5.9	6.2	5.7	4.3	4.3	4.4	4.6	4.5	4.6
30%	4.1	4.3	4.6	5.2	5.3	5.0	4.3	4.3	4.4	4.6	4.5	4.3
40%	4.1	4.2	4.6	4.7	4.5	4.5	4.1	4.2	4.4	4.6	4.5	4.3
50%	4.0	4.2	4.4	4.6	4.5	4.4	4.1	4.2	4.3	4.5	4.4	4.3
60%	4.0	4.1	4.3	4.4	4.5	4.4	4.0	4.2	4.3	4.5	4.4	4.3
70%	4.0	4.1	4.3	4.4	4.2	4.2	4.0	4.1	4.2	4.4	4.3	4.2
80%	4.0	4.0	4.1	4.2	4.2	4.0	4.0	4.0	4.2	4.4	4.3	4.2
90%	3.9	3.9	4.0	4.1	4.0	3.9	3.9	4.0	4.1	4.3	4.2	4.1
Long Term												
Full Simulation Period[a]	4.1	4.4	4.8	4.9	5.0	4.8	4.3	4.3	4.4	4.5	4.4	4.4
Water Year Types[b]												
Wet (31%)	4.3	5.1	6.2	5.7	6.4	6.2	5.2	4.6	4.6	4.7	4.6	4.8
Above Normal (25%)	3.9	4.0	4.4	6.3	6.2	5.3	4.3	4.3	4.2	4.4	4.3	4.2
Below Normal (6%)	4.0	4.1	4.0	4.8	4.7	4.4	4.0	4.1	4.1	4.2	4.2	4.1
Dry (13%)	4.0	4.2	4.3	4.4	4.3	4.5	4.1	4.2	4.4	4.5	4.4	4.2
Critical (25%)	4.1	4.1	4.3	4.3	4.1	4.0	3.9	4.1	4.2	4.5	4.4	4.2

Alternative 8 (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.8	0.5	0.2	0.1	**-0.2**	**-0.2**	0.4	0.7	0.8	0.6	0.8	0.9
20%	0.9	0.5	0.8	0.4	**-0.1**	0.1	0.8	0.8	0.8	0.6	0.7	1.1
30%	0.9	0.9	0.8	0.5	0.5	0.4	0.9	0.9	0.8	0.7	0.9	0.9
40%	0.9	0.9	0.8	0.8	0.4	0.6	0.9	0.9	0.9	0.7	0.8	0.9
50%	0.8	0.9	0.8	0.7	0.8	0.6	0.9	0.9	0.9	0.7	0.8	0.9
60%	0.8	0.9	0.8	0.8	1.0	0.6	0.9	0.9	0.9	0.7	0.8	0.9
70%	0.9	0.9	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.7	0.8	0.9
80%	0.9	0.9	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.7	0.8	0.9
90%	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0	0.9	0.7	0.8	0.9
Long Term												
Full Simulation Period[a]	0.9	0.8	0.7	0.6	0.6	0.5	0.8	0.8	0.8	0.7	0.8	0.9
Water Year Types[b]												
Wet (31%)	0.8	0.5	0.3	0.4	0.1	**-0.1**	0.5	0.5	0.5	0.6	0.8	0.9
Above Normal (25%)	0.9	0.9	0.8	0.2	0.2	0.2	0.7	0.8	0.8	0.7	0.8	0.9
Below Normal (6%)	0.8	0.9	0.9	0.8	0.5	0.6	0.9	0.9	0.8	0.6	0.7	0.9
Dry (13%)	0.9	0.8	0.8	0.9	0.9	0.7	0.9	0.9	0.8	0.6	0.7	0.8
Critical (25%)	0.9	0.9	0.8	0.8	0.9	0.9	0.9	1.0	0.9	0.7	0.9	0.9

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-26-1-13. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	3.5	4.7	6.3	6.1	7.1	6.5	4.9	3.9	3.8	4.1	3.9	3.9
20%	3.2	4.1	3.8	5.5	6.3	5.6	3.5	3.5	3.6	3.9	3.8	3.5
30%	3.2	3.4	3.8	4.6	4.8	4.6	3.4	3.4	3.6	3.9	3.6	3.5
40%	3.2	3.3	3.8	4.0	4.1	3.9	3.2	3.4	3.5	3.9	3.6	3.4
50%	3.2	3.3	3.5	3.9	3.7	3.9	3.1	3.3	3.4	3.9	3.6	3.4
60%	3.2	3.3	3.5	3.6	3.4	3.7	3.1	3.3	3.4	3.8	3.6	3.4
70%	3.1	3.2	3.4	3.5	3.3	3.3	3.1	3.2	3.4	3.8	3.5	3.3
80%	3.0	3.1	3.3	3.3	3.3	3.1	3.0	3.1	3.3	3.7	3.5	3.2
90%	3.0	3.0	3.2	3.2	3.1	2.9	2.9	3.0	3.3	3.6	3.5	3.2
Long Term												
Full Simulation Period[a]	3.2	3.6	4.1	4.3	4.5	4.3	3.6	3.5	3.6	3.9	3.6	3.5
Water Year Types[b]												
Wet (31%)	3.5	4.6	5.9	5.3	6.4	6.2	4.8	4.1	4.1	4.1	3.9	3.9
Above Normal (25%)	3.0	3.1	3.6	6.1	6.0	5.1	3.6	3.5	3.4	3.7	3.6	3.3
Below Normal (6%)	3.2	3.2	3.1	4.0	4.3	3.8	3.1	3.3	3.3	3.6	3.5	3.2
Dry (13%)	3.1	3.3	3.5	3.5	3.4	3.7	3.2	3.3	3.5	3.9	3.7	3.4
Critical (25%)	3.2	3.3	3.5	3.4	3.2	3.1	3.0	3.0	3.3	3.8	3.5	3.3

Alternative 9 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	4.3	5.1	6.8	6.8	7.7	7.0	5.6	4.6	4.6	4.8	4.7	4.9
20%	4.2	4.6	4.6	6.4	6.9	6.3	4.3	4.2	4.5	4.7	4.6	4.8
30%	4.2	4.3	4.5	5.3	5.5	5.2	4.2	4.2	4.4	4.7	4.6	4.4
40%	4.1	4.3	4.5	4.6	4.7	4.6	4.1	4.1	4.4	4.7	4.6	4.3
50%	4.1	4.2	4.3	4.6	4.4	4.5	4.0	4.1	4.3	4.6	4.5	4.3
60%	4.1	4.1	4.3	4.4	4.2	4.3	3.9	4.1	4.3	4.6	4.5	4.3
70%	4.0	4.1	4.2	4.3	4.1	4.1	3.9	4.0	4.2	4.6	4.4	4.3
80%	4.0	4.0	4.1	4.1	4.1	3.9	3.9	4.0	4.2	4.5	4.4	4.2
90%	4.0	3.9	4.1	4.0	4.0	3.8	3.8	3.9	4.2	4.4	4.3	4.1
Long Term												
Full Simulation Period[a]	4.2	4.4	4.8	5.0	5.2	5.0	4.4	4.2	4.4	4.6	4.5	4.4
Water Year Types[b]												
Wet (31%)	4.4	5.2	6.6	6.0	7.0	6.7	5.5	4.6	4.7	4.8	4.7	5.0
Above Normal (25%)	3.9	4.0	4.4	6.7	6.8	5.7	4.3	4.2	4.2	4.6	4.5	4.4
Below Normal (6%)	4.1	4.2	4.1	4.7	4.7	4.5	3.9	4.0	4.2	4.3	4.3	4.2
Dry (13%)	4.1	4.2	4.3	4.3	4.2	4.4	4.0	4.2	4.4	4.7	4.5	4.3
Critical (25%)	4.1	4.2	4.3	4.2	4.0	3.9	3.9	4.0	4.2	4.5	4.4	4.2

Alternative 9 (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.8	0.4	0.5	0.7	0.5	0.5	0.6	0.7	0.8	0.7	0.8	1.1
20%	1.0	0.5	0.7	0.9	0.6	0.7	0.8	0.7	0.9	0.8	0.8	1.4
30%	1.0	0.9	0.7	0.7	0.7	0.6	0.8	0.8	0.9	0.8	1.0	0.9
40%	0.9	0.9	0.7	0.7	0.6	0.7	0.8	0.8	0.9	0.8	0.9	0.9
50%	0.9	0.9	0.8	0.7	0.7	0.6	0.8	0.9	0.9	0.8	0.9	0.9
60%	0.9	0.9	0.8	0.8	0.8	0.5	0.8	0.9	0.9	0.8	0.9	0.9
70%	1.0	0.9	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.8	0.9	1.0
80%	1.0	0.9	0.9	0.9	0.8	0.8	0.9	0.9	0.9	0.8	0.9	1.0
90%	1.0	0.9	0.9	0.8	0.9	0.9	0.9	0.9	0.9	0.8	0.8	1.0
Long Term												
Full Simulation Period[a]	0.9	0.8	0.8	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.9	1.0
Water Year Types[b]												
Wet (31%)	0.9	0.6	0.7	0.7	0.6	0.5	0.7	0.5	0.5	0.7	0.9	1.1
Above Normal (25%)	0.9	0.9	0.8	0.6	0.8	0.7	0.7	0.7	0.8	0.9	0.9	1.1
Below Normal (6%)	0.9	1.1	0.9	0.7	0.4	0.6	0.8	0.7	0.9	0.7	0.8	1.0
Dry (13%)	1.0	0.8	0.8	0.8	0.8	0.7	0.8	0.9	0.9	0.8	0.8	0.9
Critical (25%)	0.9	0.9	0.8	0.8	0.8	0.8	0.9	1.0	0.9	0.8	0.9	0.9

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-26-1-14. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.9	5.6	7.4	7.4	8.2	7.5	6.2	5.3	5.2	5.5	5.3	5.6
20%	4.7	5.2	5.2	7.1	7.5	6.9	5.0	4.9	5.1	5.5	5.2	5.2
30%	4.7	4.9	5.2	6.0	6.2	5.9	4.8	4.8	5.0	5.5	5.2	5.0
40%	4.7	4.8	5.2	5.3	5.4	5.3	4.7	4.8	5.0	5.4	5.2	4.9
50%	4.7	4.8	5.0	5.3	5.1	5.1	4.6	4.7	4.9	5.4	5.0	4.9
60%	4.6	4.7	4.9	5.1	4.8	4.9	4.5	4.6	4.9	5.4	5.0	4.9
70%	4.6	4.7	4.9	5.0	4.7	4.7	4.5	4.6	4.9	5.3	5.0	4.8
80%	4.6	4.5	4.7	5.0	4.7	4.5	4.4	4.6	4.8	5.2	4.9	4.7
90%	4.5	4.5	4.7	4.6	4.5	4.4	4.3	4.5	4.8	5.1	4.9	4.7
Long Term												
Full Simulation Period[a]	4.7	5.0	5.5	5.7	5.8	5.6	5.0	4.8	5.0	5.4	5.1	5.0
Water Year Types[b]												
Wet (31%)	4.9	5.7	7.1	6.7	7.6	7.2	6.1	5.2	5.3	5.6	5.3	5.6
Above Normal (25%)	4.5	4.6	5.1	7.3	7.4	6.4	5.0	4.8	4.8	5.3	5.1	5.0
Below Normal (6%)	4.7	4.8	4.7	5.4	5.4	5.1	4.5	4.6	4.8	5.0	4.9	4.7
Dry (13%)	4.7	4.8	5.0	4.9	4.9	5.1	4.6	4.8	5.0	5.4	5.1	4.8
Critical (25%)	4.7	4.7	4.9	4.9	4.6	4.5	4.5	4.6	4.8	5.2	4.9	4.8

Alternative 1A,1B,1C (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	4.9	6.2	5.9	7.0	6.2	5.2	4.5	4.6	4.9	4.6	4.6
20%	4.3	4.5	4.7	5.6	5.9	5.7	4.3	4.3	4.5	4.7	4.6	4.4
30%	4.3	4.3	4.6	5.1	5.1	4.9	4.2	4.2	4.4	4.7	4.5	4.3
40%	4.2	4.2	4.5	4.7	4.5	4.4	4.1	4.2	4.3	4.6	4.5	4.3
50%	4.2	4.1	4.4	4.6	4.4	4.3	4.0	4.1	4.3	4.6	4.5	4.3
60%	4.1	4.1	4.3	4.4	4.3	4.3	4.0	4.1	4.3	4.6	4.4	4.3
70%	4.1	4.1	4.3	4.4	4.2	4.1	4.0	4.1	4.2	4.5	4.3	4.3
80%	4.0	4.0	4.1	4.2	4.2	4.0	4.0	4.0	4.2	4.4	4.3	4.1
90%	4.0	3.9	4.1	4.1	4.0	3.9	3.8	3.9	4.2	4.3	4.2	4.1
Long Term												
Full Simulation Period[a]	4.2	4.3	4.8	4.9	5.0	4.8	4.3	4.2	4.4	4.6	4.4	4.3
Water Year Types[b]												
Wet (31%)	4.3	5.0	6.0	5.6	6.3	6.1	5.2	4.5	4.6	4.8	4.6	4.7
Above Normal (25%)	4.0	4.0	4.4	5.9	6.3	5.3	4.2	4.2	4.2	4.5	4.4	4.2
Below Normal (6%)	4.3	4.1	4.1	4.7	4.5	4.3	4.0	4.0	4.1	4.2	4.2	4.1
Dry (13%)	4.1	4.1	4.4	4.4	4.2	4.3	4.0	4.2	4.4	4.7	4.5	4.3
Critical (25%)	4.2	4.1	4.3	4.3	4.1	3.9	3.9	4.0	4.2	4.5	4.3	4.3

Alternative 1A,1B,1C (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.5	-0.8	-1.3	-1.5	-1.2	-1.3	-1.0	-0.7	-0.6	-0.7	-0.7	-1.0
20%	-0.5	-0.7	-0.6	-1.4	-1.5	-1.3	-0.7	-0.6	-0.6	-0.8	-0.7	-0.9
30%	-0.4	-0.6	-0.6	-0.9	-1.1	-1.0	-0.6	-0.6	-0.6	-0.8	-0.7	-0.6
40%	-0.5	-0.6	-0.7	-0.6	-0.9	-0.8	-0.6	-0.6	-0.6	-0.8	-0.6	-0.6
50%	-0.5	-0.6	-0.6	-0.7	-0.7	-0.8	-0.6	-0.6	-0.6	-0.8	-0.6	-0.6
60%	-0.5	-0.6	-0.5	-0.6	-0.5	-0.7	-0.6	-0.5	-0.6	-0.8	-0.6	-0.6
70%	-0.5	-0.6	-0.6	-0.7	-0.6	-0.6	-0.5	-0.5	-0.6	-0.8	-0.7	-0.6
80%	-0.5	-0.5	-0.6	-0.8	-0.6	-0.5	-0.5	-0.6	-0.6	-0.8	-0.6	-0.6
90%	-0.5	-0.6	-0.6	-0.5	-0.5	-0.5	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6
Long Term												
Full Simulation Period[a]	-0.5	-0.6	-0.7	-0.8	-0.8	-0.8	-0.7	-0.6	-0.6	-0.8	-0.7	-0.7
Water Year Types[b]												
Wet (31%)	-0.6	-0.7	-1.1	-1.1	-1.2	-1.1	-0.9	-0.7	-0.7	-0.8	-0.7	-0.9
Above Normal (25%)	-0.5	-0.6	-0.6	-1.4	-1.1	-1.1	-0.8	-0.6	-0.6	-0.8	-0.7	-0.8
Below Normal (6%)	-0.4	-0.7	-0.6	-0.7	-0.9	-0.8	-0.6	-0.6	-0.7	-0.8	-0.7	-0.6
Dry (13%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6	-0.6	-0.8	-0.6	-0.5
Critical (25%)	-0.5	-0.6	-0.6	-0.7	-0.5	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-26-1-15. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.9	5.6	7.4	7.4	8.2	7.5	6.2	5.3	5.2	5.5	5.3	5.6
20%	4.7	5.2	5.2	7.1	7.5	6.9	5.0	4.9	5.1	5.5	5.2	5.2
30%	4.7	4.9	5.2	6.0	6.2	5.9	4.8	4.8	5.0	5.5	5.2	5.0
40%	4.7	4.8	5.2	5.3	5.4	5.3	4.7	4.8	5.0	5.4	5.2	4.9
50%	4.7	4.8	5.0	5.3	5.1	5.1	4.6	4.7	4.9	5.4	5.0	4.9
60%	4.6	4.7	4.9	5.1	4.8	4.9	4.5	4.6	4.9	5.4	5.0	4.9
70%	4.6	4.7	4.9	5.0	4.7	4.7	4.5	4.6	4.9	5.3	5.0	4.8
80%	4.6	4.5	4.7	5.0	4.7	4.5	4.4	4.6	4.8	5.2	4.9	4.7
90%	4.5	4.5	4.7	4.6	4.5	4.4	4.3	4.5	4.8	5.1	4.9	4.7
Long Term												
Full Simulation Period[a]	4.7	5.0	5.5	5.7	5.8	5.6	5.0	4.8	5.0	5.4	5.1	5.0
Water Year Types[b]												
Wet (31%)	4.9	5.7	7.1	6.7	7.6	7.2	6.1	5.2	5.3	5.6	5.3	5.6
Above Normal (25%)	4.5	4.6	5.1	7.3	7.4	6.4	5.0	4.8	4.8	5.3	5.1	5.0
Below Normal (6%)	4.7	4.8	4.7	5.4	5.4	5.1	4.5	4.6	4.8	5.0	4.9	4.7
Dry (13%)	4.7	4.8	5.0	4.9	4.9	5.1	4.6	4.8	5.0	5.4	5.1	4.8
Critical (25%)	4.7	4.7	4.9	4.9	4.6	4.5	4.5	4.6	4.8	5.2	4.9	4.8

Alternative 2A,2B,2C (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	4.9	6.1	5.9	6.8	6.2	5.2	4.6	4.6	4.9	4.6	4.8
20%	4.2	4.5	4.6	5.7	6.0	5.7	4.3	4.3	4.5	4.7	4.5	4.7
30%	4.2	4.3	4.6	5.1	5.1	4.8	4.2	4.2	4.4	4.7	4.5	4.4
40%	4.2	4.2	4.5	4.6	4.5	4.4	4.1	4.2	4.4	4.7	4.5	4.3
50%	4.1	4.1	4.4	4.6	4.4	4.3	4.0	4.1	4.3	4.6	4.4	4.3
60%	4.1	4.1	4.3	4.4	4.3	4.3	4.0	4.1	4.3	4.6	4.4	4.3
70%	4.0	4.1	4.3	4.4	4.2	4.1	3.9	4.1	4.2	4.5	4.3	4.3
80%	4.0	4.0	4.1	4.4	4.1	3.9	3.9	4.0	4.2	4.5	4.3	4.2
90%	4.0	3.9	4.1	4.1	4.0	3.9	3.8	3.9	4.1	4.3	4.2	4.1
Long Term												
Full Simulation Period[a]	4.1	4.3	4.8	4.9	5.0	4.7	4.3	4.2	4.4	4.6	4.4	4.4
Water Year Types[b]												
Wet (31%)	4.3	4.9	6.0	5.6	6.3	6.1	5.2	4.5	4.7	4.8	4.6	4.9
Above Normal (25%)	4.0	4.0	4.4	5.9	6.1	5.3	4.2	4.2	4.2	4.6	4.4	4.3
Below Normal (6%)	4.0	4.1	4.1	4.7	4.5	4.3	4.0	4.0	4.2	4.2	4.2	4.1
Dry (13%)	4.1	4.2	4.4	4.3	4.2	4.3	4.0	4.2	4.4	4.6	4.5	4.2
Critical (25%)	4.1	4.1	4.3	4.3	4.1	3.9	3.9	4.0	4.2	4.5	4.3	4.2

Alternative 2A,2B,2C (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.5	-0.8	-1.3	-1.4	-1.4	-1.3	-1.0	-0.7	-0.6	-0.7	-0.7	-0.8
20%	-0.5	-0.7	-0.6	-1.4	-1.5	-1.2	-0.7	-0.6	-0.6	-0.8	-0.7	-0.5
30%	-0.5	-0.7	-0.7	-0.9	-1.1	-1.1	-0.6	-0.6	-0.6	-0.8	-0.7	-0.6
40%	-0.5	-0.6	-0.6	-0.8	-0.9	-0.8	-0.6	-0.6	-0.6	-0.8	-0.7	-0.6
50%	-0.5	-0.6	-0.5	-0.7	-0.7	-0.8	-0.6	-0.6	-0.6	-0.8	-0.6	-0.6
60%	-0.5	-0.6	-0.6	-0.7	-0.5	-0.7	-0.6	-0.5	-0.6	-0.8	-0.6	-0.6
70%	-0.5	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.8	-0.7	-0.6
80%	-0.6	-0.5	-0.6	-0.6	-0.6	-0.5	-0.5	-0.6	-0.6	-0.7	-0.6	-0.5
90%	-0.6	-0.6	-0.6	-0.5	-0.6	-0.5	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
Long Term												
Full Simulation Period[a]	-0.5	-0.7	-0.7	-0.8	-0.9	-0.9	-0.7	-0.6	-0.6	-0.8	-0.7	-0.6
Water Year Types[b]												
Wet (31%)	-0.6	-0.8	-1.1	-1.1	-1.3	-1.2	-0.9	-0.7	-0.7	-0.8	-0.7	-0.7
Above Normal (25%)	-0.5	-0.6	-0.6	-1.4	-1.3	-1.1	-0.7	-0.6	-0.6	-0.8	-0.7	-0.7
Below Normal (6%)	-0.6	-0.7	-0.6	-0.7	-0.9	-0.8	-0.6	-0.6	-0.6	-0.8	-0.7	-0.7
Dry (13%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.8	-0.6	-0.6	-0.6	-0.8	-0.7	-0.5
Critical (25%)	-0.5	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-26-1-16. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.9	5.6	7.4	7.4	8.2	7.5	6.2	5.3	5.2	5.5	5.3	5.6
20%	4.7	5.2	5.2	7.1	7.5	6.9	5.0	4.9	5.1	5.5	5.2	5.2
30%	4.7	4.9	5.2	6.0	6.2	5.9	4.8	4.8	5.0	5.5	5.2	5.0
40%	4.7	4.8	5.2	5.3	5.4	5.3	4.7	4.8	5.0	5.4	5.2	4.9
50%	4.7	4.8	5.0	5.3	5.1	5.1	4.6	4.7	4.9	5.4	5.0	4.9
60%	4.6	4.7	4.9	5.1	4.8	4.9	4.5	4.6	4.9	5.4	5.0	4.9
70%	4.6	4.7	4.9	5.0	4.7	4.7	4.5	4.6	4.9	5.3	5.0	4.8
80%	4.6	4.5	4.7	5.0	4.7	4.5	4.4	4.6	4.8	5.2	4.9	4.7
90%	4.5	4.5	4.7	4.6	4.5	4.4	4.3	4.5	4.8	5.1	4.9	4.7
Long Term												
Full Simulation Period[a]	4.7	5.0	5.5	5.7	5.8	5.6	5.0	4.8	5.0	5.4	5.1	5.0
Water Year Types[b]												
Wet (31%)	4.9	5.7	7.1	6.7	7.6	7.2	6.1	5.2	5.3	5.6	5.3	5.6
Above Normal (25%)	4.5	4.6	5.1	7.3	7.4	6.4	5.0	4.8	4.8	5.3	5.1	5.0
Below Normal (6%)	4.7	4.8	4.7	5.4	5.4	5.1	4.5	4.6	4.8	5.0	4.9	4.7
Dry (13%)	4.7	4.8	5.0	4.9	4.9	5.1	4.6	4.8	5.0	5.4	5.1	4.8
Critical (25%)	4.7	4.7	4.9	4.9	4.6	4.5	4.5	4.6	4.8	5.2	4.9	4.8

Alternative 3 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	5.0	6.5	6.3	7.2	6.5	5.3	4.6	4.6	4.9	4.6	4.6
20%	4.3	4.6	4.7	6.0	6.4	5.9	4.3	4.3	4.5	4.7	4.6	4.4
30%	4.3	4.2	4.6	5.2	5.3	5.0	4.2	4.2	4.4	4.7	4.5	4.3
40%	4.2	4.2	4.5	4.7	4.6	4.5	4.1	4.2	4.3	4.6	4.5	4.3
50%	4.2	4.1	4.4	4.6	4.4	4.4	4.0	4.2	4.3	4.6	4.4	4.3
60%	4.1	4.1	4.3	4.4	4.3	4.3	4.0	4.1	4.3	4.6	4.4	4.3
70%	4.1	4.1	4.3	4.4	4.2	4.1	4.0	4.1	4.2	4.5	4.3	4.2
80%	4.0	4.0	4.1	4.2	4.1	4.0	4.0	4.0	4.2	4.4	4.3	4.1
90%	4.0	3.9	4.1	4.1	4.0	3.9	3.8	3.9	4.2	4.3	4.2	4.1
Long Term												
Full Simulation Period[a]	4.2	4.3	4.8	4.9	5.1	4.8	4.3	4.2	4.4	4.6	4.4	4.3
Water Year Types[b]												
Wet (31%)	4.3	5.1	6.3	5.7	6.6	6.3	5.3	4.6	4.7	4.8	4.6	4.6
Above Normal (25%)	4.1	4.0	4.4	6.3	6.4	5.4	4.3	4.2	4.2	4.5	4.4	4.2
Below Normal (6%)	4.2	4.1	4.1	4.7	4.6	4.4	4.0	4.0	4.1	4.1	4.2	4.1
Dry (13%)	4.1	4.1	4.4	4.4	4.2	4.4	4.0	4.2	4.4	4.7	4.5	4.3
Critical (25%)	4.2	4.1	4.3	4.3	4.1	3.9	3.9	4.0	4.2	4.5	4.3	4.3

Alternative 3 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.4	-0.6	-0.9	-1.1	-1.0	-1.0	-0.9	-0.7	-0.6	-0.7	-0.7	-1.0
20%	-0.4	-0.6	-0.6	-1.0	-1.1	-1.0	-0.7	-0.6	-0.6	-0.8	-0.6	-0.9
30%	-0.4	-0.7	-0.6	-0.8	-0.9	-0.9	-0.6	-0.6	-0.6	-0.8	-0.7	-0.6
40%	-0.5	-0.6	-0.7	-0.6	-0.8	-0.8	-0.6	-0.6	-0.6	-0.8	-0.7	-0.6
50%	-0.5	-0.6	-0.6	-0.7	-0.7	-0.8	-0.6	-0.6	-0.6	-0.8	-0.6	-0.6
60%	-0.5	-0.6	-0.6	-0.7	-0.5	-0.7	-0.6	-0.5	-0.6	-0.8	-0.6	-0.6
70%	-0.5	-0.6	-0.6	-0.7	-0.6	-0.6	-0.5	-0.5	-0.6	-0.8	-0.7	-0.6
80%	-0.5	-0.5	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.6	-0.8	-0.6	-0.6
90%	-0.5	-0.6	-0.6	-0.5	-0.5	-0.5	-0.6	-0.5	-0.6	-0.7	-0.7	-0.6
Long Term												
Full Simulation Period[a]	-0.5	-0.6	-0.7	-0.8	-0.8	-0.8	-0.6	-0.6	-0.6	-0.8	-0.7	-0.7
Water Year Types[b]												
Wet (31%)	-0.6	-0.7	-0.8	-1.0	-1.0	-1.0	-0.8	-0.6	-0.7	-0.8	-0.7	-0.9
Above Normal (25%)	-0.4	-0.6	-0.6	-1.0	-1.0	-1.0	-0.7	-0.6	-0.6	-0.8	-0.7	-0.8
Below Normal (6%)	-0.5	-0.7	-0.6	-0.7	-0.8	-0.8	-0.6	-0.6	-0.7	-0.9	-0.7	-0.6
Dry (13%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6	-0.6	-0.8	-0.7	-0.5
Critical (25%)	-0.4	-0.6	-0.6	-0.6	-0.5	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-26-1-17. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.9	5.6	7.4	7.4	8.2	7.5	6.2	5.3	5.2	5.5	5.3	5.6
20%	4.7	5.2	5.2	7.1	7.5	6.9	5.0	4.9	5.1	5.5	5.2	5.2
30%	4.7	4.9	5.2	6.0	6.2	5.9	4.8	4.8	5.0	5.5	5.2	5.0
40%	4.7	4.8	5.2	5.3	5.4	5.3	4.7	4.8	5.0	5.4	5.2	4.9
50%	4.7	4.8	5.0	5.3	5.1	5.1	4.6	4.7	4.9	5.4	5.0	4.9
60%	4.6	4.7	4.9	5.1	4.8	4.9	4.5	4.6	4.9	5.4	5.0	4.9
70%	4.6	4.7	4.9	5.0	4.7	4.7	4.5	4.6	4.9	5.3	5.0	4.8
80%	4.6	4.5	4.7	5.0	4.7	4.5	4.4	4.6	4.8	5.2	4.9	4.7
90%	4.5	4.5	4.7	4.6	4.5	4.4	4.3	4.5	4.8	5.1	4.9	4.7
Long Term												
Full Simulation Period[a]	4.7	5.0	5.5	5.7	5.8	5.6	5.0	4.8	5.0	5.4	5.1	5.0
Water Year Types[b]												
Wet (31%)	4.9	5.7	7.1	6.7	7.6	7.2	6.1	5.2	5.3	5.6	5.3	5.6
Above Normal (25%)	4.5	4.6	5.1	7.3	7.4	6.4	5.0	4.8	4.8	5.3	5.1	5.0
Below Normal (6%)	4.7	4.8	4.7	5.4	5.4	5.1	4.5	4.6	4.8	5.0	4.9	4.7
Dry (13%)	4.7	4.8	5.0	4.9	4.9	5.1	4.6	4.8	5.0	5.4	5.1	4.8
Critical (25%)	4.7	4.7	4.9	4.9	4.6	4.5	4.5	4.6	4.8	5.2	4.9	4.8

Alternative 4 H1 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	5.0	6.4	6.2	7.0	6.3	5.2	4.6	4.6	4.9	4.6	4.6
20%	4.2	4.6	4.6	5.9	6.2	5.8	4.3	4.3	4.5	4.7	4.6	4.4
30%	4.2	4.2	4.6	5.1	5.2	4.9	4.2	4.2	4.4	4.7	4.5	4.4
40%	4.2	4.2	4.5	4.6	4.5	4.5	4.1	4.2	4.4	4.7	4.5	4.3
50%	4.1	4.1	4.5	4.6	4.4	4.3	4.0	4.2	4.3	4.6	4.5	4.3
60%	4.1	4.1	4.3	4.4	4.3	4.3	4.0	4.1	4.3	4.6	4.4	4.3
70%	4.0	4.1	4.3	4.4	4.2	4.1	4.0	4.1	4.2	4.5	4.3	4.3
80%	4.0	4.0	4.1	4.4	4.1	3.9	3.9	4.0	4.2	4.4	4.3	4.1
90%	4.0	3.9	4.1	4.2	4.0	3.9	3.8	3.9	4.2	4.3	4.2	4.1
Long Term												
Full Simulation Period[a]	4.1	4.3	4.8	4.9	5.0	4.8	4.3	4.2	4.4	4.6	4.5	4.3
Water Year Types[b]												
Wet (31%)	4.3	5.0	6.2	5.6	6.5	6.2	5.2	4.5	4.6	4.8	4.7	4.6
Above Normal (25%)	4.0	4.0	4.4	6.2	6.2	5.3	4.2	4.2	4.2	4.6	4.4	4.2
Below Normal (6%)	4.1	4.1	4.1	4.7	4.5	4.3	4.0	4.0	4.2	4.2	4.2	4.1
Dry (13%)	4.1	4.1	4.4	4.3	4.2	4.4	4.0	4.2	4.4	4.7	4.5	4.3
Critical (25%)	4.1	4.1	4.3	4.3	4.1	3.9	3.9	4.0	4.2	4.5	4.3	4.3

Alternative 4 H1 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.5	-0.7	-1.0	-1.2	-1.2	-1.2	-1.0	-0.7	-0.6	-0.7	-0.7	-1.0
20%	-0.5	-0.6	-0.6	-1.2	-1.3	-1.1	-0.7	-0.6	-0.6	-0.8	-0.6	-0.8
30%	-0.5	-0.7	-0.6	-0.9	-1.0	-1.0	-0.6	-0.6	-0.6	-0.8	-0.7	-0.6
40%	-0.6	-0.6	-0.6	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.8	-0.6	-0.6
50%	-0.5	-0.6	-0.5	-0.8	-0.7	-0.8	-0.6	-0.6	-0.6	-0.8	-0.6	-0.6
60%	-0.5	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
70%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.8	-0.7	-0.6
80%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.5	-0.6	-0.6	-0.8	-0.6	-0.6
90%	-0.5	-0.6	-0.6	-0.5	-0.5	-0.5	-0.6	-0.5	-0.6	-0.7	-0.6	-0.6
Long Term												
Full Simulation Period[a]	-0.5	-0.6	-0.7	-0.8	-0.8	-0.8	-0.7	-0.6	-0.6	-0.7	-0.6	-0.7
Water Year Types[b]												
Wet (31%)	-0.6	-0.7	-1.0	-1.1	-1.1	-1.1	-0.9	-0.7	-0.7	-0.7	-0.7	-0.9
Above Normal (25%)	-0.5	-0.6	-0.6	-1.1	-1.1	-1.1	-0.7	-0.6	-0.6	-0.7	-0.7	-0.8
Below Normal (6%)	-0.5	-0.7	-0.6	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.8	-0.7	-0.6
Dry (13%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6	-0.6	-0.8	-0.6	-0.5
Critical (25%)	-0.5	-0.6	-0.6	-0.6	-0.5	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-26-1-18. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.9	5.6	7.4	7.4	8.2	7.5	6.2	5.3	5.2	5.5	5.3	5.6
20%	4.7	5.2	5.2	7.1	7.5	6.9	5.0	4.9	5.1	5.5	5.2	5.2
30%	4.7	4.9	5.2	6.0	6.2	5.9	4.8	4.8	5.0	5.5	5.2	5.0
40%	4.7	4.8	5.2	5.3	5.4	5.3	4.7	4.8	5.0	5.4	5.2	4.9
50%	4.7	4.8	5.0	5.3	5.1	5.1	4.6	4.7	4.9	5.4	5.0	4.9
60%	4.6	4.7	4.9	5.1	4.8	4.9	4.5	4.6	4.9	5.4	5.0	4.9
70%	4.6	4.7	4.9	5.0	4.7	4.7	4.5	4.6	4.9	5.3	5.0	4.8
80%	4.6	4.5	4.7	5.0	4.7	4.5	4.4	4.6	4.8	5.2	4.9	4.7
90%	4.5	4.5	4.7	4.6	4.5	4.4	4.3	4.5	4.8	5.1	4.9	4.7
Long Term												
Full Simulation Period[a]	4.7	5.0	5.5	5.7	5.8	5.6	5.0	4.8	5.0	5.4	5.1	5.0
Water Year Types[b]												
Wet (31%)	4.9	5.7	7.1	6.7	7.6	7.2	6.1	5.2	5.3	5.6	5.3	5.6
Above Normal (25%)	4.5	4.6	5.1	7.3	7.4	6.4	5.0	4.8	4.8	5.3	5.1	5.0
Below Normal (6%)	4.7	4.8	4.7	5.4	5.4	5.1	4.5	4.6	4.8	5.0	4.9	4.7
Dry (13%)	4.7	4.8	5.0	4.9	4.9	5.1	4.6	4.8	5.0	5.4	5.1	4.8
Critical (25%)	4.7	4.7	4.9	4.9	4.6	4.5	4.5	4.6	4.8	5.2	4.9	4.8

Alternative 4 H2 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	5.0	6.4	6.2	7.0	6.3	5.2	4.6	4.6	4.8	4.6	4.6
20%	4.3	4.6	4.6	5.9	6.2	5.8	4.3	4.3	4.5	4.7	4.5	4.4
30%	4.2	4.2	4.6	5.1	5.2	5.0	4.2	4.3	4.4	4.7	4.5	4.4
40%	4.2	4.2	4.5	4.6	4.6	4.5	4.2	4.2	4.3	4.6	4.5	4.3
50%	4.1	4.1	4.4	4.6	4.4	4.3	4.1	4.2	4.3	4.5	4.4	4.3
60%	4.0	4.1	4.4	4.4	4.3	4.3	4.0	4.2	4.2	4.5	4.4	4.3
70%	4.0	4.1	4.3	4.4	4.2	4.1	4.0	4.0	4.2	4.5	4.4	4.2
80%	4.0	4.0	4.1	4.4	4.1	4.0	3.9	4.0	4.2	4.4	4.3	4.1
90%	4.0	3.9	4.0	4.2	4.0	3.9	3.8	3.9	4.1	4.3	4.2	4.1
Long Term												
Full Simulation Period[a]	4.2	4.3	4.8	4.9	5.0	4.8	4.3	4.2	4.3	4.6	4.5	4.3
Water Year Types[b]												
Wet (31%)	4.3	5.0	6.2	5.6	6.4	6.2	5.3	4.6	4.6	4.8	4.7	4.6
Above Normal (25%)	4.0	4.0	4.5	6.2	6.3	5.3	4.4	4.3	4.2	4.4	4.4	4.2
Below Normal (6%)	4.0	4.1	4.0	4.7	4.6	4.4	4.0	4.0	4.2	4.2	4.2	4.1
Dry (13%)	4.1	4.1	4.3	4.3	4.2	4.4	4.0	4.2	4.4	4.6	4.5	4.2
Critical (25%)	4.2	4.1	4.3	4.3	4.1	3.9	3.9	4.0	4.2	4.5	4.3	4.3

Alternative 4 H2 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.5	-0.6	-1.0	-1.1	-1.2	-1.2	-1.0	-0.7	-0.7	-0.7	-0.7	-1.0
20%	-0.5	-0.6	-0.6	-1.2	-1.3	-1.1	-0.7	-0.6	-0.6	-0.8	-0.7	-0.9
30%	-0.5	-0.7	-0.7	-0.9	-1.0	-0.9	-0.6	-0.6	-0.6	-0.8	-0.7	-0.6
40%	-0.5	-0.6	-0.6	-0.8	-0.8	-0.8	-0.5	-0.5	-0.6	-0.8	-0.7	-0.6
50%	-0.6	-0.6	-0.6	-0.8	-0.7	-0.8	-0.4	-0.5	-0.6	-0.9	-0.6	-0.6
60%	-0.6	-0.6	-0.5	-0.6	-0.5	-0.7	-0.6	-0.5	-0.7	-0.8	-0.6	-0.6
70%	-0.5	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.8	-0.7	-0.6
80%	-0.5	-0.5	-0.6	-0.6	-0.6	-0.5	-0.5	-0.6	-0.6	-0.8	-0.6	-0.6
90%	-0.6	-0.6	-0.7	-0.4	-0.5	-0.5	-0.5	-0.5	-0.6	-0.8	-0.6	-0.6
Long Term												
Full Simulation Period[a]	-0.5	-0.6	-0.7	-0.8	-0.8	-0.8	-0.6	-0.6	-0.7	-0.8	-0.6	-0.7
Water Year Types[b]												
Wet (31%)	-0.6	-0.7	-0.9	-1.1	-1.1	-1.1	-0.8	-0.6	-0.7	-0.8	-0.7	-0.9
Above Normal (25%)	-0.5	-0.6	-0.6	-1.1	-1.1	-1.1	-0.6	-0.5	-0.7	-0.9	-0.7	-0.8
Below Normal (6%)	-0.6	-0.7	-0.7	-0.7	-0.8	-0.7	-0.6	-0.6	-0.6	-0.8	-0.7	-0.6
Dry (13%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6	-0.6	-0.8	-0.7	-0.5
Critical (25%)	-0.5	-0.6	-0.6	-0.6	-0.5	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-26-1-19. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.9	5.6	7.4	7.4	8.2	7.5	6.2	5.3	5.2	5.5	5.3	5.6
20%	4.7	5.2	5.2	7.1	7.5	6.9	5.0	4.9	5.1	5.5	5.2	5.2
30%	4.7	4.9	5.2	6.0	6.2	5.9	4.8	4.8	5.0	5.5	5.2	5.0
40%	4.7	4.8	5.2	5.3	5.4	5.3	4.7	4.8	5.0	5.4	5.2	4.9
50%	4.7	4.8	5.0	5.3	5.1	5.1	4.6	4.7	4.9	5.4	5.0	4.9
60%	4.6	4.7	4.9	5.1	4.8	4.9	4.5	4.6	4.9	5.4	5.0	4.9
70%	4.6	4.7	4.9	5.0	4.7	4.7	4.5	4.6	4.9	5.3	5.0	4.8
80%	4.6	4.5	4.7	5.0	4.7	4.5	4.4	4.6	4.8	5.2	4.9	4.7
90%	4.5	4.5	4.7	4.6	4.5	4.4	4.3	4.5	4.8	5.1	4.9	4.7
Long Term												
Full Simulation Period[a]	4.7	5.0	5.5	5.7	5.8	5.6	5.0	4.8	5.0	5.4	5.1	5.0
Water Year Types[b]												
Wet (31%)	4.9	5.7	7.1	6.7	7.6	7.2	6.1	5.2	5.3	5.6	5.3	5.6
Above Normal (25%)	4.5	4.6	5.1	7.3	7.4	6.4	5.0	4.8	4.8	5.3	5.1	5.0
Below Normal (6%)	4.7	4.8	4.7	5.4	5.4	5.1	4.5	4.6	4.8	5.0	4.9	4.7
Dry (13%)	4.7	4.8	5.0	4.9	4.9	5.1	4.6	4.8	5.0	5.4	5.1	4.8
Critical (25%)	4.7	4.7	4.9	4.9	4.6	4.5	4.5	4.6	4.8	5.2	4.9	4.8

Alternative 4 H3 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	5.0	6.3	6.1	7.0	6.3	5.2	4.6	4.6	4.9	4.6	4.8
20%	4.2	4.6	4.6	5.9	6.2	5.8	4.3	4.3	4.5	4.7	4.6	4.6
30%	4.2	4.3	4.6	5.1	5.2	4.8	4.2	4.2	4.4	4.7	4.5	4.4
40%	4.2	4.2	4.5	4.6	4.5	4.5	4.1	4.2	4.4	4.7	4.5	4.3
50%	4.1	4.1	4.5	4.6	4.4	4.3	4.0	4.2	4.3	4.6	4.4	4.3
60%	4.0	4.1	4.4	4.5	4.3	4.3	4.0	4.1	4.3	4.6	4.4	4.3
70%	4.0	4.1	4.3	4.4	4.2	4.1	3.9	4.1	4.2	4.5	4.4	4.3
80%	4.0	4.0	4.1	4.4	4.1	3.9	3.9	4.0	4.2	4.4	4.3	4.2
90%	4.0	3.9	4.0	4.1	4.0	3.9	3.8	3.9	4.1	4.3	4.2	4.1
Long Term												
Full Simulation Period[a]	4.1	4.3	4.8	4.9	5.0	4.8	4.3	4.2	4.4	4.6	4.4	4.4
Water Year Types[b]												
Wet (31%)	4.3	5.0	6.2	5.6	6.4	6.2	5.2	4.5	4.6	4.8	4.7	4.8
Above Normal (25%)	4.0	4.0	4.5	6.1	6.2	5.3	4.2	4.2	4.2	4.6	4.4	4.3
Below Normal (6%)	4.0	4.1	4.0	4.7	4.5	4.3	4.0	4.0	4.2	4.2	4.2	4.1
Dry (13%)	4.1	4.2	4.4	4.3	4.2	4.3	4.0	4.2	4.4	4.7	4.5	4.3
Critical (25%)	4.1	4.1	4.3	4.3	4.1	3.9	3.9	4.0	4.2	4.5	4.3	4.2

Alternative 4 H3 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.5	-0.7	-1.1	-1.2	-1.2	-1.2	-1.0	-0.7	-0.6	-0.7	-0.7	-0.8
20%	-0.5	-0.6	-0.6	-1.2	-1.3	-1.1	-0.7	-0.6	-0.6	-0.8	-0.6	-0.6
30%	-0.5	-0.7	-0.7	-0.9	-1.0	-1.1	-0.6	-0.6	-0.6	-0.8	-0.7	-0.6
40%	-0.5	-0.6	-0.6	-0.8	-0.8	-0.8	-0.6	-0.6	-0.6	-0.8	-0.7	-0.6
50%	-0.6	-0.6	-0.5	-0.7	-0.7	-0.8	-0.6	-0.6	-0.6	-0.8	-0.6	-0.5
60%	-0.6	-0.6	-0.5	-0.6	-0.5	-0.7	-0.6	-0.5	-0.6	-0.7	-0.6	-0.6
70%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.8	-0.7	-0.6
80%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.5	-0.6	-0.6	-0.7	-0.7	-0.6
90%	-0.6	-0.6	-0.6	-0.5	-0.5	-0.5	-0.6	-0.5	-0.6	-0.7	-0.6	-0.6
Long Term												
Full Simulation Period[a]	-0.6	-0.6	-0.7	-0.8	-0.8	-0.8	-0.7	-0.6	-0.6	-0.8	-0.7	-0.6
Water Year Types[b]												
Wet (31%)	-0.6	-0.7	-1.0	-1.1	-1.1	-1.1	-0.8	-0.7	-0.7	-0.7	-0.7	-0.7
Above Normal (25%)	-0.5	-0.6	-0.6	-1.2	-1.2	-1.1	-0.7	-0.6	-0.6	-0.7	-0.7	-0.7
Below Normal (6%)	-0.6	-0.7	-0.7	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.8	-0.7	-0.6
Dry (13%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.8	-0.6	-0.6	-0.6	-0.8	-0.7	-0.5
Critical (25%)	-0.5	-0.6	-0.5	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.8	-0.6	-0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-26-1-20. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.9	5.6	7.4	7.4	8.2	7.5	6.2	5.3	5.2	5.5	5.3	5.6
20%	4.7	5.2	5.2	7.1	7.5	6.9	5.0	4.9	5.1	5.5	5.2	5.2
30%	4.7	4.9	5.2	6.0	6.2	5.9	4.8	4.8	5.0	5.5	5.2	5.0
40%	4.7	4.8	5.2	5.3	5.4	5.3	4.7	4.8	5.0	5.4	5.2	4.9
50%	4.7	4.8	5.0	5.3	5.1	5.1	4.6	4.7	4.9	5.4	5.0	4.9
60%	4.6	4.7	4.9	5.1	4.8	4.9	4.5	4.6	4.9	5.4	5.0	4.9
70%	4.6	4.7	4.9	5.0	4.7	4.7	4.5	4.6	4.9	5.3	5.0	4.8
80%	4.6	4.5	4.7	5.0	4.7	4.5	4.4	4.6	4.8	5.2	4.9	4.7
90%	4.5	4.5	4.7	4.6	4.5	4.4	4.3	4.5	4.8	5.1	4.9	4.7
Long Term												
Full Simulation Period[a]	4.7	5.0	5.5	5.7	5.8	5.6	5.0	4.8	5.0	5.4	5.1	5.0
Water Year Types[b]												
Wet (31%)	4.9	5.7	7.1	6.7	7.6	7.2	6.1	5.2	5.3	5.6	5.3	5.6
Above Normal (25%)	4.5	4.6	5.1	7.3	7.4	6.4	5.0	4.8	4.8	5.3	5.1	5.0
Below Normal (6%)	4.7	4.8	4.7	5.4	5.4	5.1	4.5	4.6	4.8	5.0	4.9	4.7
Dry (13%)	4.7	4.8	5.0	4.9	4.9	5.1	4.6	4.8	5.0	5.4	5.1	4.8
Critical (25%)	4.7	4.7	4.9	4.9	4.6	4.5	4.5	4.6	4.8	5.2	4.9	4.8

Alternative 4 H4 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	4.9	6.3	6.2	7.0	6.3	5.2	4.6	4.6	4.8	4.6	4.8
20%	4.2	4.6	4.6	5.9	6.2	5.8	4.3	4.3	4.5	4.7	4.6	4.6
30%	4.2	4.3	4.6	5.1	5.2	5.0	4.2	4.3	4.4	4.6	4.5	4.4
40%	4.2	4.2	4.5	4.6	4.6	4.5	4.2	4.2	4.3	4.6	4.5	4.3
50%	4.1	4.1	4.4	4.5	4.4	4.3	4.1	4.2	4.3	4.5	4.4	4.3
60%	4.1	4.1	4.4	4.4	4.3	4.3	4.0	4.2	4.2	4.5	4.4	4.3
70%	4.0	4.1	4.3	4.4	4.2	4.1	4.0	4.1	4.2	4.5	4.4	4.3
80%	4.0	4.0	4.1	4.2	4.1	4.0	3.9	4.0	4.2	4.4	4.3	4.2
90%	4.0	3.9	4.1	4.1	4.0	3.9	3.8	3.9	4.1	4.3	4.2	4.1
Long Term												
Full Simulation Period[a]	4.1	4.3	4.8	4.9	5.0	4.8	4.3	4.2	4.3	4.6	4.5	4.4
Water Year Types[b]												
Wet (31%)	4.3	5.0	6.1	5.6	6.4	6.2	5.3	4.6	4.6	4.8	4.7	4.8
Above Normal (25%)	4.0	4.0	4.5	6.2	6.2	5.3	4.4	4.3	4.2	4.4	4.4	4.3
Below Normal (6%)	4.0	4.1	4.1	4.7	4.6	4.3	4.0	4.0	4.2	4.2	4.2	4.1
Dry (13%)	4.1	4.2	4.3	4.3	4.2	4.4	4.0	4.2	4.4	4.6	4.5	4.2
Critical (25%)	4.1	4.1	4.3	4.3	4.1	3.9	3.9	4.0	4.2	4.5	4.4	4.3

Alternative 4 H4 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.5	-0.7	-1.1	-1.2	-1.2	-1.2	-1.0	-0.7	-0.7	-0.7	-0.7	-0.8
20%	-0.5	-0.6	-0.6	-1.2	-1.3	-1.1	-0.7	-0.6	-0.6	-0.8	-0.7	-0.6
30%	-0.5	-0.7	-0.7	-0.9	-1.0	-1.0	-0.6	-0.6	-0.6	-0.8	-0.7	-0.6
40%	-0.6	-0.6	-0.6	-0.8	-0.8	-0.8	-0.5	-0.5	-0.6	-0.8	-0.7	-0.6
50%	-0.5	-0.6	-0.6	-0.8	-0.7	-0.8	-0.4	-0.5	-0.6	-0.9	-0.6	-0.5
60%	-0.5	-0.6	-0.5	-0.7	-0.5	-0.7	-0.6	-0.5	-0.7	-0.8	-0.6	-0.5
70%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.8	-0.7	-0.6
80%	-0.6	-0.5	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.6	-0.8	-0.6	-0.6
90%	-0.6	-0.6	-0.6	-0.5	-0.5	-0.5	-0.5	-0.5	-0.6	-0.7	-0.6	-0.6
Long Term												
Full Simulation Period[a]	-0.5	-0.6	-0.7	-0.8	-0.8	-0.8	-0.6	-0.6	-0.7	-0.8	-0.6	-0.6
Water Year Types[b]												
Wet (31%)	-0.6	-0.7	-1.0	-1.1	-1.1	-1.1	-0.8	-0.6	-0.7	-0.8	-0.7	-0.7
Above Normal (25%)	-0.5	-0.6	-0.6	-1.1	-1.1	-1.1	-0.6	-0.5	-0.7	-0.9	-0.7	-0.7
Below Normal (6%)	-0.7	-0.7	-0.6	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.8	-0.7	-0.6
Dry (13%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6	-0.6	-0.8	-0.7	-0.5
Critical (25%)	-0.5	-0.6	-0.6	-0.7	-0.5	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-26-1-21. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.9	5.6	7.4	7.4	8.2	7.5	6.2	5.3	5.2	5.5	5.3	5.6
20%	4.7	5.2	5.2	7.1	7.5	6.9	5.0	4.9	5.1	5.5	5.2	5.2
30%	4.7	4.9	5.2	6.0	6.2	5.9	4.8	4.8	5.0	5.5	5.2	5.0
40%	4.7	4.8	5.2	5.3	5.4	5.3	4.7	4.8	5.0	5.4	5.2	4.9
50%	4.7	4.8	5.0	5.3	5.1	5.1	4.6	4.7	4.9	5.4	5.0	4.9
60%	4.6	4.7	4.9	5.1	4.8	4.9	4.5	4.6	4.9	5.4	5.0	4.9
70%	4.6	4.7	4.9	5.0	4.7	4.7	4.5	4.6	4.9	5.3	5.0	4.8
80%	4.6	4.5	4.7	5.0	4.7	4.5	4.4	4.6	4.8	5.2	4.9	4.7
90%	4.5	4.5	4.7	4.6	4.5	4.4	4.3	4.5	4.8	5.1	4.9	4.7
Long Term												
Full Simulation Period[a]	4.7	5.0	5.5	5.7	5.8	5.6	5.0	4.8	5.0	5.4	5.1	5.0
Water Year Types[b]												
Wet (31%)	4.9	5.7	7.1	6.7	7.6	7.2	6.1	5.2	5.3	5.6	5.3	5.6
Above Normal (25%)	4.5	4.6	5.1	7.3	7.4	6.4	5.0	4.8	4.8	5.3	5.1	5.0
Below Normal (6%)	4.7	4.8	4.7	5.4	5.4	5.1	4.5	4.6	4.8	5.0	4.9	4.7
Dry (13%)	4.7	4.8	5.0	4.9	4.9	5.1	4.6	4.8	5.0	5.4	5.1	4.8
Critical (25%)	4.7	4.7	4.9	4.9	4.6	4.5	4.5	4.6	4.8	5.2	4.9	4.8

Alternative 5 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	5.0	6.6	6.5	7.3	6.6	5.4	4.6	4.6	4.9	4.7	4.8
20%	4.3	4.6	4.6	6.1	6.5	6.0	4.3	4.3	4.5	4.8	4.6	4.7
30%	4.2	4.3	4.6	5.2	5.3	5.1	4.2	4.2	4.4	4.7	4.5	4.3
40%	4.2	4.2	4.5	4.6	4.6	4.5	4.1	4.2	4.4	4.7	4.5	4.3
50%	4.1	4.2	4.4	4.6	4.4	4.4	4.0	4.2	4.3	4.6	4.4	4.3
60%	4.0	4.1	4.3	4.4	4.3	4.3	4.0	4.1	4.3	4.6	4.4	4.3
70%	4.0	4.1	4.3	4.4	4.2	4.1	4.0	4.1	4.2	4.5	4.3	4.2
80%	4.0	4.0	4.1	4.3	4.2	4.0	3.9	4.0	4.2	4.5	4.3	4.2
90%	3.9	3.9	4.1	4.1	4.0	3.9	3.8	3.9	4.1	4.4	4.2	4.1
Long Term												
Full Simulation Period[a]	4.1	4.4	4.8	5.0	5.1	4.9	4.4	4.2	4.4	4.6	4.4	4.4
Water Year Types[b]												
Wet (31%)	4.3	5.1	6.3	5.8	6.7	6.4	5.4	4.6	4.7	4.8	4.7	4.9
Above Normal (25%)	3.9	4.0	4.4	6.4	6.5	5.5	4.3	4.2	4.2	4.6	4.4	4.3
Below Normal (6%)	4.0	4.1	4.1	4.7	4.6	4.4	4.0	4.0	4.2	4.3	4.2	4.1
Dry (13%)	4.1	4.1	4.3	4.3	4.2	4.4	4.0	4.2	4.4	4.7	4.5	4.2
Critical (25%)	4.1	4.1	4.3	4.3	4.1	3.9	3.9	4.0	4.2	4.5	4.3	4.2

Alternative 5 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.5	-0.6	-0.8	-0.9	-0.9	-0.9	-0.8	-0.7	-0.6	-0.7	-0.7	-0.8
20%	-0.5	-0.6	-0.6	-0.9	-0.9	-0.9	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
30%	-0.5	-0.7	-0.7	-0.8	-0.8	-0.9	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6
40%	-0.5	-0.6	-0.6	-0.7	-0.8	-0.7	-0.6	-0.6	-0.6	-0.8	-0.7	-0.6
50%	-0.6	-0.6	-0.6	-0.7	-0.7	-0.7	-0.6	-0.6	-0.6	-0.8	-0.6	-0.6
60%	-0.6	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6
70%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.8	-0.7	-0.6
80%	-0.6	-0.5	-0.6	-0.6	-0.5	-0.5	-0.5	-0.6	-0.6	-0.7	-0.6	-0.5
90%	-0.6	-0.6	-0.6	-0.5	-0.5	-0.5	-0.6	-0.5	-0.6	-0.7	-0.7	-0.6
Long Term												
Full Simulation Period[a]	-0.6	-0.6	-0.7	-0.7	-0.7	-0.7	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6
Water Year Types[b]												
Wet (31%)	-0.6	-0.6	-0.8	-0.9	-0.9	-0.8	-0.7	-0.6	-0.6	-0.7	-0.7	-0.7
Above Normal (25%)	-0.6	-0.6	-0.6	-0.9	-0.9	-0.9	-0.7	-0.6	-0.6	-0.7	-0.7	-0.7
Below Normal (6%)	-0.7	-0.7	-0.6	-0.7	-0.8	-0.7	-0.6	-0.6	-0.6	-0.7	-0.7	-0.7
Dry (13%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6	-0.6	-0.8	-0.7	-0.6
Critical (25%)	-0.5	-0.6	-0.6	-0.6	-0.5	-0.6	-0.5	-0.6	-0.6	-0.7	-0.6	-0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-26-1-22. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.9	5.6	7.4	7.4	8.2	7.5	6.2	5.3	5.2	5.5	5.3	5.6
20%	4.7	5.2	5.2	7.1	7.5	6.9	5.0	4.9	5.1	5.5	5.2	5.2
30%	4.7	4.9	5.2	6.0	6.2	5.9	4.8	4.8	5.0	5.5	5.2	5.0
40%	4.7	4.8	5.2	5.3	5.4	5.3	4.7	4.8	5.0	5.4	5.2	4.9
50%	4.7	4.8	5.0	5.3	5.1	5.1	4.6	4.7	4.9	5.4	5.0	4.9
60%	4.6	4.7	4.9	5.1	4.8	4.9	4.5	4.6	4.9	5.4	5.0	4.9
70%	4.6	4.7	4.9	5.0	4.7	4.7	4.5	4.6	4.9	5.3	5.0	4.8
80%	4.6	4.5	4.7	5.0	4.7	4.5	4.4	4.6	4.8	5.2	4.9	4.7
90%	4.5	4.5	4.7	4.6	4.5	4.4	4.3	4.5	4.8	5.1	4.9	4.7
Long Term												
Full Simulation Period[a]	4.7	5.0	5.5	5.7	5.8	5.6	5.0	4.8	5.0	5.4	5.1	5.0
Water Year Types[b]												
Wet (31%)	4.9	5.7	7.1	6.7	7.6	7.2	6.1	5.2	5.3	5.6	5.3	5.6
Above Normal (25%)	4.5	4.6	5.1	7.3	7.4	6.4	5.0	4.8	4.8	5.3	5.1	5.0
Below Normal (6%)	4.7	4.8	4.7	5.4	5.4	5.1	4.5	4.6	4.8	5.0	4.9	4.7
Dry (13%)	4.7	4.8	5.0	4.9	4.9	5.1	4.6	4.8	5.0	5.4	5.1	4.8
Critical (25%)	4.7	4.7	4.9	4.9	4.6	4.5	4.5	4.6	4.8	5.2	4.9	4.8

Alternative 6A,6B,6C (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	5.1	6.3	6.0	6.7	6.1	5.2	4.5	4.5	4.8	4.7	4.8
20%	4.2	4.6	4.6	5.6	5.9	5.6	4.3	4.3	4.4	4.6	4.6	4.6
30%	4.2	4.3	4.6	5.1	5.1	4.8	4.2	4.2	4.4	4.6	4.5	4.4
40%	4.1	4.2	4.6	4.6	4.5	4.4	4.1	4.2	4.3	4.6	4.5	4.4
50%	4.1	4.2	4.4	4.6	4.5	4.3	4.0	4.2	4.3	4.6	4.5	4.3
60%	4.1	4.2	4.3	4.4	4.4	4.3	4.0	4.1	4.2	4.5	4.4	4.3
70%	4.0	4.1	4.3	4.4	4.2	4.1	4.0	4.0	4.2	4.5	4.4	4.3
80%	4.0	4.0	4.1	4.2	4.1	4.0	3.9	4.0	4.1	4.5	4.3	4.2
90%	4.0	3.9	4.0	4.1	4.0	3.8	3.8	3.9	4.1	4.3	4.3	4.1
Long Term												
Full Simulation Period[a]	4.1	4.4	4.8	4.8	4.9	4.7	4.3	4.2	4.3	4.6	4.5	4.4
Water Year Types[b]												
Wet (31%)	4.3	5.0	6.1	5.5	6.2	6.0	5.1	4.5	4.6	4.8	4.7	4.8
Above Normal (25%)	3.9	4.0	4.4	6.0	6.0	5.2	4.2	4.2	4.1	4.5	4.4	4.2
Below Normal (6%)	4.1	4.1	4.0	4.7	4.5	4.3	4.0	4.0	4.2	4.3	4.3	4.2
Dry (13%)	4.1	4.2	4.3	4.3	4.2	4.3	4.0	4.2	4.3	4.6	4.5	4.3
Critical (25%)	4.1	4.2	4.3	4.3	4.1	3.9	3.9	4.0	4.2	4.5	4.4	4.3

Alternative 6A,6B,6C (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.5	-0.5	-1.1	-1.4	-1.5	-1.4	-1.1	-0.7	-0.7	-0.7	-0.7	-0.8
20%	-0.5	-0.6	-0.6	-1.4	-1.5	-1.3	-0.7	-0.7	-0.7	-0.9	-0.6	-0.7
30%	-0.5	-0.6	-0.7	-0.9	-1.1	-1.1	-0.6	-0.6	-0.7	-0.8	-0.7	-0.6
40%	-0.6	-0.6	-0.6	-0.7	-0.9	-0.8	-0.6	-0.6	-0.7	-0.8	-0.7	-0.5
50%	-0.6	-0.6	-0.6	-0.7	-0.7	-0.8	-0.6	-0.6	-0.6	-0.8	-0.6	-0.5
60%	-0.6	-0.6	-0.6	-0.6	-0.4	-0.7	-0.6	-0.6	-0.7	-0.8	-0.6	-0.5
70%	-0.5	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.8	-0.7	-0.6
80%	-0.5	-0.6	-0.6	-0.8	-0.6	-0.5	-0.5	-0.6	-0.7	-0.7	-0.6	-0.5
90%	-0.5	-0.6	-0.6	-0.5	-0.5	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.5
Long Term												
Full Simulation Period[a]	-0.5	-0.6	-0.7	-0.9	-0.9	-0.9	-0.7	-0.6	-0.7	-0.8	-0.6	-0.6
Water Year Types[b]												
Wet (31%)	-0.6	-0.7	-1.0	-1.2	-1.3	-1.2	-0.9	-0.7	-0.7	-0.8	-0.7	-0.8
Above Normal (25%)	-0.6	-0.6	-0.6	-1.3	-1.4	-1.2	-0.8	-0.6	-0.7	-0.8	-0.7	-0.7
Below Normal (6%)	-0.6	-0.7	-0.7	-0.7	-0.8	-0.8	-0.6	-0.6	-0.7	-0.7	-0.6	-0.5
Dry (13%)	-0.5	-0.6	-0.6	-0.6	-0.6	-0.8	-0.6	-0.6	-0.7	-0.8	-0.7	-0.5
Critical (25%)	-0.5	-0.6	-0.6	-0.7	-0.5	-0.6	-0.6	-0.6	-0.6	-0.7	-0.5	-0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-26-1-23. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.9	5.6	7.4	7.4	8.2	7.5	6.2	5.3	5.2	5.5	5.3	5.6
20%	4.7	5.2	5.2	7.1	7.5	6.9	5.0	4.9	5.1	5.5	5.2	5.2
30%	4.7	4.9	5.2	6.0	6.2	5.9	4.8	4.8	5.0	5.5	5.2	5.0
40%	4.7	4.8	5.2	5.3	5.4	5.3	4.7	4.8	5.0	5.4	5.2	4.9
50%	4.7	4.8	5.0	5.3	5.1	5.1	4.6	4.7	4.9	5.4	5.0	4.9
60%	4.6	4.7	4.9	5.1	4.8	4.9	4.5	4.6	4.9	5.4	5.0	4.9
70%	4.6	4.7	4.9	5.0	4.7	4.7	4.5	4.6	4.9	5.3	5.0	4.8
80%	4.6	4.5	4.7	5.0	4.7	4.5	4.4	4.6	4.8	5.2	4.9	4.7
90%	4.5	4.5	4.7	4.6	4.5	4.4	4.3	4.5	4.8	5.1	4.9	4.7
Long Term												
Full Simulation Period[a]	4.7	5.0	5.5	5.7	5.8	5.6	5.0	4.8	5.0	5.4	5.1	5.0
Water Year Types[b]												
Wet (31%)	4.9	5.7	7.1	6.7	7.6	7.2	6.1	5.2	5.3	5.6	5.3	5.6
Above Normal (25%)	4.5	4.6	5.1	7.3	7.4	6.4	5.0	4.8	4.8	5.3	5.1	5.0
Below Normal (6%)	4.7	4.8	4.7	5.4	5.4	5.1	4.5	4.6	4.8	5.0	4.9	4.7
Dry (13%)	4.7	4.8	5.0	4.9	4.9	5.1	4.6	4.8	5.0	5.4	5.1	4.8
Critical (25%)	4.7	4.7	4.9	4.9	4.6	4.5	4.5	4.6	4.8	5.2	4.9	4.8

Alternative 7 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	5.0	6.5	6.2	7.0	6.3	5.2	4.5	4.6	4.8	4.7	4.8
20%	4.2	4.6	4.6	5.9	6.2	5.7	4.3	4.3	4.5	4.8	4.6	4.6
30%	4.2	4.3	4.6	5.1	5.2	4.9	4.2	4.2	4.4	4.7	4.5	4.4
40%	4.2	4.2	4.6	4.6	4.5	4.4	4.1	4.2	4.4	4.6	4.5	4.3
50%	4.1	4.2	4.4	4.6	4.5	4.3	4.0	4.2	4.3	4.6	4.4	4.3
60%	4.1	4.2	4.3	4.4	4.4	4.3	4.0	4.1	4.3	4.6	4.4	4.3
70%	4.0	4.1	4.3	4.4	4.2	4.1	4.0	4.0	4.2	4.5	4.4	4.3
80%	4.0	4.0	4.1	4.2	4.1	4.0	3.9	4.0	4.2	4.5	4.3	4.2
90%	4.0	3.9	4.1	4.1	4.0	3.8	3.8	3.9	4.1	4.4	4.3	4.1
Long Term												
Full Simulation Period[a]	4.1	4.4	4.8	4.9	5.0	4.8	4.3	4.2	4.4	4.6	4.5	4.4
Water Year Types[b]												
Wet (31%)	4.3	5.0	6.2	5.6	6.4	6.2	5.2	4.5	4.7	4.8	4.6	4.9
Above Normal (25%)	3.9	4.0	4.4	6.2	6.2	5.3	4.2	4.2	4.2	4.5	4.4	4.3
Below Normal (6%)	4.1	4.1	4.0	4.7	4.5	4.4	4.0	4.0	4.1	4.3	4.3	4.1
Dry (13%)	4.1	4.2	4.3	4.3	4.2	4.3	4.0	4.2	4.4	4.7	4.5	4.2
Critical (25%)	4.1	4.2	4.3	4.3	4.1	3.9	3.9	4.0	4.2	4.5	4.4	4.2

Alternative 7 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.5	-0.6	-1.0	-1.2	-1.2	-1.2	-1.0	-0.7	-0.6	-0.7	-0.7	-0.8
20%	-0.5	-0.6	-0.6	-1.2	-1.3	-1.2	-0.7	-0.7	-0.7	-0.8	-0.6	-0.6
30%	-0.6	-0.6	-0.7	-0.9	-1.0	-1.1	-0.6	-0.6	-0.6	-0.8	-0.7	-0.6
40%	-0.6	-0.5	-0.6	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.8	-0.7	-0.6
50%	-0.5	-0.6	-0.6	-0.7	-0.7	-0.8	-0.6	-0.5	-0.5	-0.8	-0.6	-0.6
60%	-0.5	-0.6	-0.6	-0.7	-0.4	-0.7	-0.6	-0.6	-0.6	-0.8	-0.6	-0.6
70%	-0.5	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.8	-0.7	-0.6
80%	-0.5	-0.6	-0.6	-0.8	-0.6	-0.5	-0.5	-0.6	-0.6	-0.7	-0.6	-0.5
90%	-0.6	-0.5	-0.6	-0.5	-0.5	-0.6	-0.5	-0.5	-0.6	-0.7	-0.6	-0.6
Long Term												
Full Simulation Period[a]	-0.5	-0.6	-0.7	-0.8	-0.8	-0.8	-0.7	-0.6	-0.6	-0.8	-0.6	-0.6
Water Year Types[b]												
Wet (31%)	-0.5	-0.7	-0.9	-1.1	-1.1	-1.1	-0.9	-0.7	-0.7	-0.7	-0.7	-0.7
Above Normal (25%)	-0.6	-0.5	-0.6	-1.1	-1.2	-1.1	-0.7	-0.6	-0.6	-0.8	-0.7	-0.7
Below Normal (6%)	-0.6	-0.7	-0.7	-0.7	-0.8	-0.7	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
Dry (13%)	-0.5	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6	-0.7	-0.7	-0.7	-0.6
Critical (25%)	-0.5	-0.5	-0.6	-0.7	-0.5	-0.6	-0.6	-0.5	-0.6	-0.7	-0.5	-0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-26-1-24. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.9	5.6	7.4	7.4	8.2	7.5	6.2	5.3	5.2	5.5	5.3	5.6
20%	4.7	5.2	5.2	7.1	7.5	6.9	5.0	4.9	5.1	5.5	5.2	5.2
30%	4.7	4.9	5.2	6.0	6.2	5.9	4.8	4.8	5.0	5.5	5.2	5.0
40%	4.7	4.8	5.2	5.3	5.4	5.3	4.7	4.8	5.0	5.4	5.2	4.9
50%	4.7	4.8	5.0	5.3	5.1	5.1	4.6	4.7	4.9	5.4	5.0	4.9
60%	4.6	4.7	4.9	5.1	4.8	4.9	4.5	4.6	4.9	5.4	5.0	4.9
70%	4.6	4.7	4.9	5.0	4.7	4.7	4.5	4.6	4.9	5.3	5.0	4.8
80%	4.6	4.5	4.7	5.0	4.7	4.5	4.4	4.6	4.8	5.2	4.9	4.7
90%	4.5	4.5	4.7	4.6	4.5	4.4	4.3	4.5	4.8	5.1	4.9	4.7
Long Term												
Full Simulation Period[a]	4.7	5.0	5.5	5.7	5.8	5.6	5.0	4.8	5.0	5.4	5.1	5.0
Water Year Types[b]												
Wet (31%)	4.9	5.7	7.1	6.7	7.6	7.2	6.1	5.2	5.3	5.6	5.3	5.6
Above Normal (25%)	4.5	4.6	5.1	7.3	7.4	6.4	5.0	4.8	4.8	5.3	5.1	5.0
Below Normal (6%)	4.7	4.8	4.7	5.4	5.4	5.1	4.5	4.6	4.8	5.0	4.9	4.7
Dry (13%)	4.7	4.8	5.0	4.9	4.9	5.1	4.6	4.8	5.0	5.4	5.1	4.8
Critical (25%)	4.7	4.7	4.9	4.9	4.6	4.5	4.5	4.6	4.8	5.2	4.9	4.8

Alternative 8 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	5.1	6.5	6.2	7.0	6.3	5.3	4.6	4.6	4.7	4.6	4.8
20%	4.2	4.6	4.6	5.9	6.2	5.7	4.3	4.3	4.4	4.6	4.5	4.6
30%	4.1	4.3	4.6	5.2	5.3	5.0	4.3	4.3	4.4	4.6	4.5	4.3
40%	4.1	4.2	4.6	4.7	4.5	4.5	4.1	4.2	4.4	4.6	4.5	4.3
50%	4.0	4.2	4.4	4.6	4.5	4.4	4.1	4.2	4.3	4.5	4.4	4.3
60%	4.0	4.1	4.3	4.4	4.5	4.4	4.0	4.2	4.3	4.5	4.4	4.3
70%	4.0	4.1	4.3	4.4	4.2	4.2	4.0	4.1	4.2	4.4	4.3	4.2
80%	4.0	4.0	4.1	4.2	4.2	4.0	4.0	4.0	4.2	4.4	4.3	4.2
90%	3.9	3.9	4.0	4.1	4.0	3.9	3.9	4.0	4.1	4.3	4.2	4.1
Long Term												
Full Simulation Period[a]	4.1	4.4	4.8	4.9	5.0	4.8	4.3	4.3	4.4	4.5	4.4	4.4
Water Year Types[b]												
Wet (31%)	4.3	5.1	6.2	5.7	6.4	6.2	5.2	4.6	4.6	4.7	4.6	4.8
Above Normal (25%)	3.9	4.0	4.4	6.3	6.2	5.3	4.3	4.3	4.2	4.4	4.3	4.2
Below Normal (6%)	4.0	4.1	4.0	4.8	4.7	4.4	4.0	4.1	4.1	4.2	4.2	4.1
Dry (13%)	4.0	4.2	4.3	4.4	4.3	4.5	4.1	4.2	4.4	4.5	4.4	4.2
Critical (25%)	4.1	4.1	4.3	4.3	4.1	4.0	3.9	4.1	4.2	4.5	4.4	4.2

Alternative 8 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.5	-0.5	-1.0	-1.2	-1.2	-1.2	-0.9	-0.7	-0.7	-0.8	-0.7	-0.8
20%	-0.6	-0.6	-0.6	-1.2	-1.3	-1.2	-0.6	-0.6	-0.7	-0.9	-0.7	-0.6
30%	-0.6	-0.6	-0.7	-0.9	-0.9	-0.9	-0.6	-0.6	-0.7	-0.9	-0.7	-0.6
40%	-0.6	-0.6	-0.6	-0.6	-0.9	-0.8	-0.6	-0.5	-0.6	-0.9	-0.7	-0.6
50%	-0.7	-0.6	-0.6	-0.7	-0.6	-0.7	-0.5	-0.5	-0.5	-0.9	-0.6	-0.6
60%	-0.6	-0.6	-0.6	-0.6	-0.3	-0.6	-0.5	-0.5	-0.6	-0.9	-0.7	-0.6
70%	-0.6	-0.6	-0.6	-0.6	-0.5	-0.5	-0.5	-0.5	-0.7	-0.9	-0.7	-0.6
80%	-0.6	-0.6	-0.6	-0.8	-0.5	-0.5	-0.5	-0.5	-0.6	-0.8	-0.7	-0.6
90%	-0.6	-0.6	-0.7	-0.5	-0.5	-0.5	-0.5	-0.5	-0.6	-0.8	-0.6	-0.6
Long Term												
Full Simulation Period[a]	-0.6	-0.6	-0.7	-0.8	-0.8	-0.8	-0.6	-0.5	-0.6	-0.8	-0.7	-0.6
Water Year Types[b]												
Wet (31%)	-0.6	-0.6	-0.9	-1.0	-1.1	-1.1	-0.8	-0.6	-0.7	-0.8	-0.7	-0.7
Above Normal (25%)	-0.6	-0.6	-0.6	-1.1	-1.2	-1.1	-0.7	-0.5	-0.6	-0.9	-0.8	-0.7
Below Normal (6%)	-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.5	-0.4	-0.7	-0.8	-0.7	-0.6
Dry (13%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.6	-0.7	-0.9	-0.7	-0.6
Critical (25%)	-0.6	-0.6	-0.6	-0.7	-0.5	-0.5	-0.5	-0.5	-0.6	-0.8	-0.6	-0.6

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-26-1-25. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.9	5.6	7.4	7.4	8.2	7.5	6.2	5.3	5.2	5.5	5.3	5.6
20%	4.7	5.2	5.2	7.1	7.5	6.9	5.0	4.9	5.1	5.5	5.2	5.2
30%	4.7	4.9	5.2	6.0	6.2	5.9	4.8	4.8	5.0	5.5	5.2	5.0
40%	4.7	4.8	5.2	5.3	5.4	5.3	4.7	4.8	5.0	5.4	5.2	4.9
50%	4.7	4.8	5.0	5.3	5.1	5.1	4.6	4.7	4.9	5.4	5.0	4.9
60%	4.6	4.7	4.9	5.1	4.8	4.9	4.5	4.6	4.9	5.4	5.0	4.9
70%	4.6	4.7	4.9	5.0	4.7	4.7	4.5	4.6	4.9	5.3	5.0	4.8
80%	4.6	4.5	4.7	5.0	4.7	4.5	4.4	4.6	4.8	5.2	4.9	4.7
90%	4.5	4.5	4.7	4.6	4.5	4.4	4.3	4.5	4.8	5.1	4.9	4.7
Long Term												
Full Simulation Period[a]	4.7	5.0	5.5	5.7	5.8	5.6	5.0	4.8	5.0	5.4	5.1	5.0
Water Year Types[b]												
Wet (31%)	4.9	5.7	7.1	6.7	7.6	7.2	6.1	5.2	5.3	5.6	5.3	5.6
Above Normal (25%)	4.5	4.6	5.1	7.3	7.4	6.4	5.0	4.8	4.8	5.3	5.1	5.0
Below Normal (6%)	4.7	4.8	4.7	5.4	5.4	5.1	4.5	4.6	4.8	5.0	4.9	4.7
Dry (13%)	4.7	4.8	5.0	4.9	4.9	5.1	4.6	4.8	5.0	5.4	5.1	4.8
Critical (25%)	4.7	4.7	4.9	4.9	4.6	4.5	4.5	4.6	4.8	5.2	4.9	4.8

Alternative 9 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	5.1	6.8	6.8	7.7	7.0	5.6	4.6	4.6	4.8	4.7	4.9
20%	4.2	4.6	4.6	6.4	6.9	6.3	4.3	4.2	4.5	4.7	4.6	4.8
30%	4.2	4.3	4.5	5.3	5.5	5.2	4.2	4.2	4.4	4.7	4.6	4.4
40%	4.1	4.3	4.5	4.6	4.7	4.6	4.1	4.1	4.4	4.7	4.6	4.3
50%	4.1	4.2	4.3	4.6	4.4	4.5	4.0	4.1	4.3	4.6	4.5	4.3
60%	4.1	4.1	4.3	4.4	4.2	4.3	3.9	4.1	4.3	4.6	4.5	4.3
70%	4.0	4.1	4.2	4.3	4.1	4.1	3.9	4.0	4.2	4.6	4.4	4.3
80%	4.0	4.0	4.1	4.1	4.1	3.9	3.9	4.0	4.2	4.5	4.4	4.2
90%	4.0	3.9	4.1	4.0	4.0	3.8	3.8	3.9	4.2	4.4	4.3	4.1
Long Term												
Full Simulation Period[a]	4.2	4.4	4.8	5.0	5.2	5.0	4.4	4.2	4.4	4.6	4.5	4.4
Water Year Types[b]												
Wet (31%)	4.4	5.2	6.6	6.0	7.0	6.7	5.5	4.6	4.7	4.8	4.7	5.0
Above Normal (25%)	3.9	4.0	4.4	6.7	6.8	5.7	4.3	4.2	4.2	4.6	4.5	4.4
Below Normal (6%)	4.1	4.2	4.1	4.7	4.7	4.5	3.9	4.0	4.2	4.3	4.3	4.2
Dry (13%)	4.1	4.2	4.3	4.3	4.2	4.4	4.0	4.2	4.4	4.7	4.5	4.3
Critical (25%)	4.1	4.2	4.3	4.2	4.0	3.9	3.9	4.0	4.2	4.5	4.4	4.2

Alternative 9 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.5	-0.6	-0.6	-0.6	-0.5	-0.5	-0.7	-0.6	-0.6	-0.7	-0.6	-0.6
20%	-0.5	-0.6	-0.7	-0.7	-0.6	-0.6	-0.6	-0.7	-0.6	-0.8	-0.6	-0.4
30%	-0.5	-0.6	-0.7	-0.7	-0.7	-0.7	-0.6	-0.7	-0.6	-0.8	-0.6	-0.6
40%	-0.6	-0.5	-0.7	-0.7	-0.7	-0.7	-0.6	-0.6	-0.6	-0.8	-0.6	-0.6
50%	-0.6	-0.6	-0.6	-0.7	-0.7	-0.7	-0.6	-0.6	-0.6	-0.8	-0.5	-0.6
60%	-0.6	-0.6	-0.6	-0.7	-0.6	-0.7	-0.6	-0.5	-0.6	-0.7	-0.6	-0.5
70%	-0.5	-0.5	-0.6	-0.7	-0.6	-0.6	-0.6	-0.6	-0.6	-0.8	-0.6	-0.5
80%	-0.5	-0.5	-0.6	-0.8	-0.6	-0.6	-0.5	-0.6	-0.6	-0.7	-0.5	-0.5
90%	-0.5	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.5
Long Term												
Full Simulation Period[a]	-0.5	-0.6	-0.6	-0.7	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.5
Water Year Types[b]												
Wet (31%)	-0.5	-0.6	-0.6	-0.7	-0.6	-0.5	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
Above Normal (25%)	-0.6	-0.5	-0.7	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.6
Below Normal (6%)	-0.6	-0.6	-0.7	-0.7	-0.7	-0.7	-0.6	-0.6	-0.6	-0.7	-0.6	-0.5
Dry (13%)	-0.5	-0.6	-0.7	-0.7	-0.6	-0.7	-0.6	-0.6	-0.6	-0.7	-0.6	-0.5
Critical (25%)	-0.6	-0.5	-0.6	-0.7	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.5	-0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-26-2-1. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Minimum Elevation

Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.3	1.9	4.6	4.3	5.8	5.2	2.9	0.9	0.0	0.4	0.2	0.4
20%	-0.1	1.1	0.6	3.3	4.9	3.8	0.3	-0.2	-0.3	0.2	0.1	0.0
30%	-0.2	-0.2	0.2	1.9	2.3	2.6	0.1	-0.2	-0.3	0.1	0.0	-0.1
40%	-0.3	-0.3	0.0	0.7	1.5	1.5	-0.1	-0.3	-0.3	0.1	0.0	-0.1
50%	-0.3	-0.4	-0.1	0.6	0.6	1.1	-0.2	-0.4	-0.4	0.1	0.0	-0.1
60%	-0.3	-0.4	-0.1	0.1	-0.1	1.0	-0.3	-0.4	-0.4	0.1	0.0	-0.2
70%	-0.4	-0.5	-0.2	-0.2	-0.2	0.2	-0.4	-0.5	-0.5	0.0	-0.1	-0.2
80%	-0.4	-0.6	-0.4	-0.3	-0.2	-0.3	-0.4	-0.6	-0.5	-0.1	-0.1	-0.2
90%	-0.4	-0.6	-0.6	-0.5	-0.4	-0.5	-0.6	-0.7	-0.5	-0.1	-0.2	-0.3
Long Term												
Full Simulation Period[a]	-0.2	0.2	0.8	1.3	1.8	1.9	0.5	0.0	-0.1	0.1	0.0	0.0
Water Year Types[b]												
Wet (31%)	0.1	1.8	3.8	3.0	4.8	4.8	2.4	1.1	0.8	0.5	0.2	0.5
Above Normal (25%)	-0.4	-0.3	0.1	4.3	4.1	3.3	0.8	0.0	-0.3	0.0	0.0	-0.1
Below Normal (6%)	-0.1	-0.4	-0.6	0.7	1.7	1.2	-0.1	-0.2	-0.3	0.1	0.0	-0.2
Dry (13%)	-0.4	-0.1	-0.1	-0.1	0.1	0.9	-0.2	-0.4	-0.4	0.1	0.0	-0.1
Critical (25%)	-0.3	-0.4	-0.3	-0.1	-0.3	-0.1	-0.5	-0.7	-0.5	0.0	-0.2	-0.2

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.2	2.3	5.3	5.4	6.7	5.8	3.8	1.5	1.1	1.6	1.4	2.2
20%	1.1	1.6	1.4	4.8	5.8	5.0	1.5	1.0	0.9	1.6	1.3	1.7
30%	1.1	1.1	1.3	3.0	3.4	3.5	1.2	1.0	0.9	1.5	1.3	1.4
40%	1.0	1.0	1.2	1.7	2.3	2.3	1.0	0.9	0.9	1.5	1.2	1.2
50%	1.0	0.9	1.1	1.6	1.6	2.1	1.0	0.8	0.8	1.5	1.2	1.1
60%	0.9	0.8	1.0	1.3	1.0	1.6	0.9	0.7	0.8	1.4	1.2	1.1
70%	0.9	0.7	0.9	1.1	1.0	1.2	0.9	0.7	0.8	1.2	1.1	1.1
80%	0.9	0.7	0.8	0.9	0.9	0.8	0.8	0.7	0.7	1.1	1.0	1.0
90%	0.8	0.6	0.7	0.7	0.8	0.8	0.6	0.5	0.7	1.0	1.0	1.0
Long Term												
Full Simulation Period[a]	1.0	1.3	1.9	2.4	2.8	2.8	1.6	1.0	0.9	1.4	1.2	1.4
Water Year Types[b]												
Wet (31%)	1.2	2.4	4.7	4.2	5.7	5.4	3.4	1.6	1.4	1.6	1.4	2.1
Above Normal (25%)	0.9	0.8	1.3	5.2	5.3	4.3	1.7	1.0	0.9	1.5	1.3	1.4
Below Normal (6%)	1.1	1.0	0.8	1.8	2.3	2.0	1.0	0.8	0.9	1.1	1.1	1.1
Dry (13%)	0.9	1.0	1.0	1.1	1.2	1.9	1.0	0.9	0.9	1.4	1.2	1.0
Critical (25%)	0.9	0.8	0.9	1.1	0.9	1.0	0.8	0.6	0.7	1.2	1.1	1.0

No Action Alternative (LLT) minus Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.0	0.3	0.7	1.1	0.8	0.7	0.9	0.7	1.1	1.2	1.2	1.8
20%	1.2	0.4	0.9	1.4	0.9	1.1	1.1	1.2	1.2	1.4	1.2	1.7
30%	1.3	1.3	1.1	1.1	1.2	1.0	1.1	1.2	1.2	1.4	1.2	1.4
40%	1.3	1.3	1.2	1.1	0.8	0.8	1.2	1.2	1.2	1.4	1.3	1.3
50%	1.3	1.3	1.1	1.1	1.0	1.0	1.2	1.2	1.2	1.4	1.2	1.2
60%	1.3	1.2	1.2	1.2	1.1	0.7	1.2	1.2	1.2	1.3	1.2	1.3
70%	1.3	1.2	1.1	1.3	1.2	1.1	1.2	1.2	1.3	1.2	1.2	1.3
80%	1.3	1.3	1.2	1.2	1.2	1.1	1.2	1.3	1.3	1.2	1.2	1.2
90%	1.3	1.2	1.3	1.2	1.2	1.2	1.2	1.2	1.3	1.1	1.3	1.2
Long Term												
Full Simulation Period[a]	1.2	1.1	1.1	1.1	1.1	1.0	1.1	1.0	1.1	1.2	1.2	1.3
Water Year Types[b]												
Wet (31%)	1.1	0.6	0.9	1.1	0.9	0.7	1.0	0.5	0.6	1.1	1.2	1.6
Above Normal (25%)	1.3	1.2	1.2	0.9	1.2	1.0	0.9	1.0	1.2	1.5	1.3	1.5
Below Normal (6%)	1.3	1.4	1.4	1.1	0.6	0.9	1.2	1.0	1.3	1.1	1.2	1.3
Dry (13%)	1.3	1.1	1.1	1.1	1.1	1.0	1.2	1.3	1.2	1.3	1.2	1.2
Critical (25%)	1.3	1.2	1.2	1.2	1.2	1.2	1.2	1.3	1.3	1.2	1.2	1.3

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

Table C-26-2-2. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Minimum Elevation

Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.3	1.9	4.6	4.3	5.8	5.2	2.9	0.9	0.0	0.4	0.2	0.4
20%	-0.1	1.1	0.6	3.3	4.9	3.8	0.3	-0.2	-0.3	0.2	0.1	0.0
30%	-0.2	-0.2	0.2	1.9	2.3	2.6	0.1	-0.2	-0.3	0.1	0.0	-0.1
40%	-0.3	-0.3	0.0	0.7	1.5	1.5	-0.1	-0.3	-0.3	0.1	0.0	-0.1
50%	-0.3	-0.4	-0.1	0.6	0.6	1.1	-0.2	-0.4	-0.4	0.1	0.0	-0.1
60%	-0.3	-0.4	-0.1	0.1	-0.1	1.0	-0.3	-0.4	-0.4	0.1	0.0	-0.2
70%	-0.4	-0.5	-0.2	-0.2	-0.2	0.2	-0.4	-0.5	-0.5	0.0	-0.1	-0.2
80%	-0.4	-0.6	-0.4	-0.3	-0.2	-0.3	-0.4	-0.6	-0.5	-0.1	-0.1	-0.2
90%	-0.4	-0.6	-0.6	-0.5	-0.4	-0.5	-0.6	-0.7	-0.5	-0.1	-0.2	-0.3
Long Term												
Full Simulation Period[a]	-0.2	0.2	0.8	1.3	1.8	1.9	0.5	0.0	-0.1	0.1	0.0	0.0
Water Year Types[b]												
Wet (31%)	0.1	1.8	3.8	3.0	4.8	4.8	2.4	1.1	0.8	0.5	0.2	0.5
Above Normal (25%)	-0.4	-0.3	0.1	4.3	4.1	3.3	0.8	0.0	-0.3	0.0	0.0	-0.1
Below Normal (6%)	-0.1	-0.4	-0.6	0.7	1.7	1.2	-0.1	-0.2	-0.3	0.1	0.0	-0.2
Dry (13%)	-0.4	-0.1	-0.1	-0.1	0.1	0.9	-0.2	-0.4	-0.4	0.1	0.0	-0.1
Critical (25%)	-0.3	-0.4	-0.3	-0.1	-0.3	-0.1	-0.5	-0.7	-0.5	0.0	-0.2	-0.2

Alternative 1A,1B,1C (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.8	2.1	4.2	4.2	5.5	4.7	3.1	1.6	1.6	2.0	1.7	1.7
20%	1.6	1.7	1.6	3.7	4.6	3.8	1.6	1.4	1.5	1.8	1.7	1.7
30%	1.6	1.5	1.6	2.7	2.7	2.9	1.5	1.3	1.4	1.8	1.7	1.6
40%	1.5	1.4	1.6	1.9	2.0	1.9	1.4	1.3	1.4	1.8	1.6	1.6
50%	1.5	1.3	1.5	1.7	1.7	1.9	1.4	1.3	1.4	1.7	1.5	1.5
60%	1.5	1.2	1.4	1.5	1.4	1.7	1.3	1.2	1.3	1.6	1.5	1.5
70%	1.4	1.2	1.3	1.3	1.4	1.5	1.2	1.2	1.3	1.5	1.5	1.5
80%	1.4	1.1	1.2	1.2	1.3	1.2	1.2	1.2	1.3	1.5	1.4	1.4
90%	1.3	1.1	1.1	1.1	1.3	1.2	1.1	1.0	1.2	1.4	1.4	1.4
Long Term												
Full Simulation Period[a]	1.5	1.5	2.0	2.3	2.6	2.5	1.7	1.3	1.4	1.7	1.6	1.6
Water Year Types[b]												
Wet (31%)	1.5	2.4	4.0	3.4	4.7	4.6	3.0	1.7	1.7	1.9	1.6	1.7
Above Normal (25%)	1.5	1.2	1.6	4.1	4.3	3.5	1.7	1.3	1.3	1.6	1.5	1.4
Below Normal (6%)	1.9	1.2	1.2	1.9	2.0	1.9	1.4	1.2	1.4	1.4	1.4	1.4
Dry (13%)	1.4	1.2	1.4	1.4	1.4	1.8	1.3	1.3	1.4	1.7	1.7	1.5
Critical (25%)	1.6	1.3	1.3	1.3	1.3	1.3	1.2	1.1	1.2	1.6	1.6	1.6

Alternative 1A,1B,1C (LLT) minus Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.5	0.1	-0.4	-0.1	-0.3	-0.4	0.2	0.7	1.6	1.6	1.5	1.3
20%	1.8	0.5	1.1	0.3	-0.4	0.0	1.3	1.6	1.8	1.7	1.6	1.7
30%	1.8	1.7	1.4	0.8	0.5	0.3	1.3	1.5	1.7	1.7	1.7	1.7
40%	1.8	1.7	1.6	1.2	0.5	0.5	1.5	1.6	1.7	1.7	1.7	1.7
50%	1.9	1.6	1.6	1.1	1.1	0.7	1.6	1.6	1.7	1.6	1.6	1.6
60%	1.8	1.6	1.6	1.4	1.5	0.7	1.6	1.6	1.7	1.5	1.6	1.7
70%	1.8	1.7	1.6	1.5	1.5	1.3	1.6	1.7	1.8	1.5	1.6	1.6
80%	1.8	1.7	1.6	1.6	1.6	1.5	1.6	1.8	1.8	1.5	1.6	1.7
90%	1.8	1.7	1.7	1.6	1.7	1.7	1.7	1.7	1.8	1.5	1.6	1.6
Long Term												
Full Simulation Period[a]	1.7	1.3	1.2	1.0	0.9	0.7	1.2	1.4	1.5	1.5	1.6	1.6
Water Year Types[b]												
Wet (31%)	1.4	0.6	0.1	0.3	-0.1	-0.2	0.6	0.5	0.9	1.4	1.4	1.2
Above Normal (25%)	1.9	1.5	1.5	-0.2	0.3	0.2	0.8	1.3	1.6	1.6	1.5	1.4
Below Normal (6%)	2.0	1.6	1.7	1.2	0.4	0.7	1.5	1.4	1.7	1.3	1.4	1.6
Dry (13%)	1.7	1.4	1.5	1.5	1.3	0.9	1.5	1.7	1.8	1.6	1.6	1.7
Critical (25%)	1.9	1.7	1.6	1.4	1.6	1.4	1.7	1.7	1.8	1.6	1.7	1.8

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-26-2-3. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Minimum Elevation

Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.3	1.9	4.6	4.3	5.8	5.2	2.9	0.9	0.0	0.4	0.2	0.4
20%	-0.1	1.1	0.6	3.3	4.9	3.8	0.3	-0.2	-0.3	0.2	0.1	0.0
30%	-0.2	-0.2	0.2	1.9	2.3	2.6	0.1	-0.2	-0.3	0.1	0.0	-0.1
40%	-0.3	-0.3	0.0	0.7	1.5	1.5	-0.1	-0.3	-0.3	0.1	0.0	-0.1
50%	-0.3	-0.4	-0.1	0.6	0.6	1.1	-0.2	-0.4	-0.4	0.1	0.0	-0.1
60%	-0.3	-0.4	-0.1	0.1	-0.1	1.0	-0.3	-0.4	-0.4	0.1	0.0	-0.2
70%	-0.4	-0.5	-0.2	-0.2	-0.2	0.2	-0.4	-0.5	-0.5	0.0	-0.1	-0.2
80%	-0.4	-0.6	-0.4	-0.3	-0.2	-0.3	-0.4	-0.6	-0.5	-0.1	-0.1	-0.2
90%	-0.4	-0.6	-0.6	-0.5	-0.4	-0.5	-0.6	-0.7	-0.5	-0.1	-0.2	-0.3
Long Term												
Full Simulation Period[a]	-0.2	0.2	0.8	1.3	1.8	1.9	0.5	0.0	-0.1	0.1	0.0	0.0
Water Year Types[b]												
Wet (31%)	0.1	1.8	3.8	3.0	4.8	4.8	2.4	1.1	0.8	0.5	0.2	0.5
Above Normal (25%)	-0.4	-0.3	0.1	4.3	4.1	3.3	0.8	0.0	-0.3	0.0	0.0	-0.1
Below Normal (6%)	-0.1	-0.4	-0.6	0.7	1.7	1.2	-0.1	-0.2	-0.3	0.1	0.0	-0.2
Dry (13%)	-0.4	-0.1	-0.1	-0.1	0.1	0.9	-0.2	-0.4	-0.4	0.1	0.0	-0.1
Critical (25%)	-0.3	-0.4	-0.3	-0.1	-0.3	-0.1	-0.5	-0.7	-0.5	0.0	-0.2	-0.2

Alternative 2A,2B,2C (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.6	2.0	4.2	4.2	5.5	4.7	3.1	1.6	1.6	2.0	1.7	2.1
20%	1.6	1.7	1.6	3.7	4.6	3.9	1.6	1.4	1.4	1.9	1.7	1.8
30%	1.5	1.4	1.6	2.7	2.7	2.7	1.4	1.3	1.4	1.9	1.7	1.7
40%	1.5	1.4	1.5	1.7	2.0	2.0	1.4	1.3	1.4	1.7	1.6	1.6
50%	1.4	1.3	1.5	1.7	1.7	1.9	1.4	1.3	1.3	1.7	1.6	1.6
60%	1.3	1.3	1.4	1.6	1.4	1.7	1.3	1.2	1.3	1.7	1.5	1.6
70%	1.3	1.2	1.3	1.4	1.3	1.5	1.2	1.2	1.3	1.6	1.5	1.6
80%	1.3	1.2	1.2	1.2	1.3	1.2	1.2	1.1	1.3	1.5	1.5	1.5
90%	1.2	1.1	1.1	1.2	1.2	1.2	1.1	1.0	1.2	1.4	1.5	1.5
Long Term												
Full Simulation Period[a]	1.4	1.5	2.0	2.3	2.6	2.5	1.7	1.3	1.4	1.7	1.6	1.7
Water Year Types[b]												
Wet (31%)	1.5	2.2	3.9	3.4	4.8	4.5	3.0	1.7	1.6	1.9	1.6	2.1
Above Normal (25%)	1.5	1.2	1.6	4.0	4.3	3.5	1.6	1.4	1.3	1.8	1.6	1.6
Below Normal (6%)	1.4	1.3	1.2	1.9	2.0	1.8	1.4	1.2	1.3	1.3	1.4	1.5
Dry (13%)	1.3	1.3	1.4	1.3	1.4	1.7	1.3	1.3	1.4	1.7	1.6	1.6
Critical (25%)	1.4	1.3	1.3	1.4	1.3	1.3	1.2	1.1	1.3	1.6	1.6	1.6

Alternative 2A,2B,2C (LLT) minus Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.4	0.1	-0.4	-0.1	-0.3	-0.5	0.2	0.7	1.5	1.6	1.5	1.7
20%	1.7	0.6	1.1	0.4	-0.3	0.1	1.3	1.6	1.7	1.8	1.6	1.8
30%	1.8	1.6	1.4	0.8	0.5	0.1	1.3	1.6	1.7	1.7	1.6	1.7
40%	1.7	1.7	1.6	1.0	0.5	0.5	1.5	1.6	1.7	1.6	1.7	1.7
50%	1.8	1.7	1.5	1.1	1.1	0.7	1.6	1.6	1.7	1.6	1.6	1.7
60%	1.7	1.6	1.6	1.5	1.5	0.7	1.6	1.6	1.7	1.6	1.6	1.8
70%	1.7	1.7	1.6	1.6	1.5	1.3	1.6	1.7	1.8	1.5	1.6	1.7
80%	1.7	1.7	1.6	1.6	1.5	1.5	1.6	1.7	1.8	1.6	1.6	1.7
90%	1.7	1.7	1.7	1.7	1.6	1.7	1.7	1.7	1.7	1.5	1.7	1.7
Long Term												
Full Simulation Period[a]	1.6	1.3	1.2	1.0	0.8	0.7	1.2	1.4	1.5	1.6	1.6	1.7
Water Year Types[b]												
Wet (31%)	1.4	0.5	0.1	0.4	0.0	-0.3	0.6	0.5	0.8	1.4	1.5	1.6
Above Normal (25%)	1.9	1.5	1.5	-0.3	0.2	0.3	0.8	1.3	1.6	1.8	1.6	1.6
Below Normal (6%)	1.5	1.7	1.7	1.2	0.3	0.7	1.5	1.4	1.6	1.3	1.4	1.7
Dry (13%)	1.7	1.4	1.5	1.4	1.3	0.8	1.5	1.7	1.7	1.6	1.6	1.7
Critical (25%)	1.7	1.7	1.6	1.5	1.5	1.4	1.6	1.7	1.8	1.6	1.7	1.8

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-26-2-4. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Minimum Elevation

Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.3	1.9	4.6	4.3	5.8	5.2	2.9	0.9	0.0	0.4	0.2	0.4
20%	-0.1	1.1	0.6	3.3	4.9	3.8	0.3	-0.2	-0.3	0.2	0.1	0.0
30%	-0.2	-0.2	0.2	1.9	2.3	2.6	0.1	-0.2	-0.3	0.1	0.0	-0.1
40%	-0.3	-0.3	0.0	0.7	1.5	1.5	-0.1	-0.3	-0.3	0.1	0.0	-0.1
50%	-0.3	-0.4	-0.1	0.6	0.6	1.1	-0.2	-0.4	-0.4	0.1	0.0	-0.1
60%	-0.3	-0.4	-0.1	0.1	-0.1	1.0	-0.3	-0.4	-0.4	0.1	0.0	-0.2
70%	-0.4	-0.5	-0.2	-0.2	-0.2	0.2	-0.4	-0.5	-0.5	0.0	-0.1	-0.2
80%	-0.4	-0.6	-0.4	-0.3	-0.2	-0.3	-0.4	-0.6	-0.5	-0.1	-0.1	-0.2
90%	-0.4	-0.6	-0.6	-0.5	-0.4	-0.5	-0.6	-0.7	-0.5	-0.1	-0.2	-0.3
Long Term												
Full Simulation Period[a]	-0.2	0.2	0.8	1.3	1.8	1.9	0.5	0.0	-0.1	0.1	0.0	0.0
Water Year Types[b]												
Wet (31%)	0.1	1.8	3.8	3.0	4.8	4.8	2.4	1.1	0.8	0.5	0.2	0.5
Above Normal (25%)	-0.4	-0.3	0.1	4.3	4.1	3.3	0.8	0.0	-0.3	0.0	0.0	-0.1
Below Normal (6%)	-0.1	-0.4	-0.6	0.7	1.7	1.2	-0.1	-0.2	-0.3	0.1	0.0	-0.2
Dry (13%)	-0.4	-0.1	-0.1	-0.1	0.1	0.9	-0.2	-0.4	-0.4	0.1	0.0	-0.1
Critical (25%)	-0.3	-0.4	-0.3	-0.1	-0.3	-0.1	-0.5	-0.7	-0.5	0.0	-0.2	-0.2

Alternative 3 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.8	2.3	4.7	4.5	5.8	5.0	3.3	1.7	1.7	1.9	1.7	1.8
20%	1.7	1.7	1.7	4.1	4.8	4.1	1.5	1.4	1.4	1.9	1.7	1.7
30%	1.7	1.4	1.6	2.7	2.9	2.9	1.5	1.4	1.4	1.8	1.7	1.6
40%	1.5	1.3	1.5	1.9	2.1	2.0	1.4	1.3	1.3	1.8	1.6	1.6
50%	1.5	1.3	1.5	1.7	1.7	1.9	1.3	1.2	1.3	1.6	1.6	1.5
60%	1.4	1.2	1.4	1.5	1.4	1.7	1.3	1.2	1.3	1.6	1.5	1.5
70%	1.4	1.2	1.3	1.4	1.4	1.5	1.2	1.1	1.3	1.6	1.5	1.5
80%	1.3	1.2	1.2	1.3	1.3	1.2	1.2	1.1	1.3	1.4	1.5	1.5
90%	1.3	1.1	1.1	1.2	1.2	1.2	1.1	1.0	1.3	1.4	1.5	1.4
Long Term												
Full Simulation Period[a]	1.5	1.6	2.1	2.3	2.7	2.6	1.8	1.3	1.4	1.7	1.6	1.6
Water Year Types[b]												
Wet (31%)	1.6	2.5	4.3	3.5	5.0	4.7	3.2	1.8	1.7	1.8	1.7	1.8
Above Normal (25%)	1.6	1.2	1.6	4.4	4.6	3.6	1.7	1.3	1.4	1.6	1.6	1.5
Below Normal (6%)	1.7	1.3	1.2	1.9	2.1	1.9	1.3	1.2	1.3	1.4	1.4	1.4
Dry (13%)	1.4	1.3	1.4	1.4	1.4	1.9	1.3	1.3	1.4	1.7	1.6	1.5
Critical (25%)	1.6	1.3	1.3	1.4	1.3	1.3	1.2	1.1	1.2	1.5	1.6	1.6

Alternative 3 (LLT) minus Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.6	0.4	0.1	0.2	0.0	**-0.2**	0.4	0.8	1.6	1.5	1.5	1.4
20%	1.9	0.6	1.1	0.7	**-0.1**	0.3	1.2	1.6	1.7	1.7	1.6	1.7
30%	2.0	1.6	1.4	0.8	0.7	0.4	1.3	1.6	1.7	1.7	1.6	1.7
40%	1.8	1.6	1.6	1.3	0.6	0.5	1.5	1.6	1.7	1.6	1.6	1.7
50%	1.8	1.6	1.6	1.1	1.1	0.8	1.6	1.6	1.7	1.6	1.6	1.6
60%	1.8	1.6	1.6	1.4	1.5	0.8	1.6	1.6	1.7	1.5	1.6	1.7
70%	1.8	1.7	1.6	1.6	1.5	1.3	1.6	1.7	1.8	1.5	1.6	1.7
80%	1.7	1.7	1.6	1.6	1.6	1.5	1.6	1.7	1.8	1.5	1.6	1.7
90%	1.8	1.7	1.7	1.7	1.6	1.7	1.6	1.7	1.8	1.5	1.7	1.7
Long Term												
Full Simulation Period[a]	1.7	1.4	1.3	1.1	1.0	0.8	1.3	1.4	1.5	1.5	1.6	1.6
Water Year Types[b]												
Wet (31%)	1.4	0.7	0.5	0.5	0.2	**-0.1**	0.7	0.6	1.0	1.4	1.5	1.3
Above Normal (25%)	2.0	1.6	1.5	0.1	0.5	0.3	0.9	1.3	1.7	1.6	1.6	1.6
Below Normal (6%)	1.9	1.7	1.8	1.3	0.5	0.8	1.5	1.4	1.7	1.3	1.4	1.6
Dry (13%)	1.7	1.4	1.5	1.5	1.4	1.0	1.5	1.7	1.7	1.6	1.6	1.7
Critical (25%)	1.9	1.7	1.6	1.5	1.6	1.4	1.6	1.7	1.8	1.6	1.7	1.8

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-26-2-5. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Minimum Elevation

Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.3	1.9	4.6	4.3	5.8	5.2	2.9	0.9	0.0	0.4	0.2	0.4
20%	-0.1	1.1	0.6	3.3	4.9	3.8	0.3	-0.2	-0.3	0.2	0.1	0.0
30%	-0.2	-0.2	0.2	1.9	2.3	2.6	0.1	-0.2	-0.3	0.1	0.0	-0.1
40%	-0.3	-0.3	0.0	0.7	1.5	1.5	-0.1	-0.3	-0.3	0.1	0.0	-0.1
50%	-0.3	-0.4	-0.1	0.6	0.6	1.1	-0.2	-0.4	-0.4	0.1	0.0	-0.1
60%	-0.3	-0.4	-0.1	0.1	-0.1	1.0	-0.3	-0.4	-0.4	0.1	0.0	-0.2
70%	-0.4	-0.5	-0.2	-0.2	-0.2	0.2	-0.4	-0.5	-0.5	0.0	-0.1	-0.2
80%	-0.4	-0.6	-0.4	-0.3	-0.2	-0.3	-0.4	-0.6	-0.5	-0.1	-0.1	-0.2
90%	-0.4	-0.6	-0.6	-0.5	-0.4	-0.5	-0.6	-0.7	-0.5	-0.1	-0.2	-0.3
Long Term												
Full Simulation Period[a]	-0.2	0.2	0.8	1.3	1.8	1.9	0.5	0.0	-0.1	0.1	0.0	0.0
Water Year Types[b]												
Wet (31%)	0.1	1.8	3.8	3.0	4.8	4.8	2.4	1.1	0.8	0.5	0.2	0.5
Above Normal (25%)	-0.4	-0.3	0.1	4.3	4.1	3.3	0.8	0.0	-0.3	0.0	0.0	-0.1
Below Normal (6%)	-0.1	-0.4	-0.6	0.7	1.7	1.2	-0.1	-0.2	-0.3	0.1	0.0	-0.2
Dry (13%)	-0.4	-0.1	-0.1	-0.1	0.1	0.9	-0.2	-0.4	-0.4	0.1	0.0	-0.1
Critical (25%)	-0.3	-0.4	-0.3	-0.1	-0.3	-0.1	-0.5	-0.7	-0.5	0.0	-0.2	-0.2

Alternative 4 H1 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.6	2.3	4.5	4.3	5.7	4.7	3.1	1.6	1.6	2.0	1.7	1.7
20%	1.6	1.7	1.7	3.8	4.6	4.0	1.6	1.4	1.5	1.9	1.7	1.7
30%	1.6	1.4	1.6	2.6	2.8	2.9	1.4	1.4	1.4	1.9	1.7	1.7
40%	1.4	1.3	1.6	1.8	1.9	2.0	1.4	1.3	1.4	1.8	1.7	1.6
50%	1.4	1.3	1.5	1.7	1.7	1.8	1.3	1.2	1.3	1.7	1.6	1.6
60%	1.3	1.2	1.4	1.7	1.4	1.7	1.3	1.2	1.3	1.6	1.6	1.5
70%	1.3	1.2	1.4	1.5	1.4	1.4	1.2	1.2	1.3	1.6	1.5	1.5
80%	1.3	1.1	1.2	1.4	1.3	1.2	1.1	1.1	1.3	1.5	1.5	1.5
90%	1.3	1.1	1.1	1.2	1.2	1.2	1.1	1.0	1.2	1.4	1.4	1.4
Long Term												
Full Simulation Period[a]	1.4	1.5	2.1	2.3	2.7	2.6	1.7	1.3	1.4	1.7	1.6	1.6
Water Year Types[b]												
Wet (31%)	1.5	2.4	4.1	3.4	4.8	4.6	3.0	1.7	1.7	1.9	1.6	1.8
Above Normal (25%)	1.5	1.2	1.6	4.3	4.5	3.5	1.6	1.3	1.3	1.8	1.6	1.4
Below Normal (6%)	1.6	1.3	1.2	1.9	2.0	1.9	1.4	1.2	1.3	1.3	1.4	1.4
Dry (13%)	1.3	1.3	1.4	1.4	1.4	1.8	1.3	1.3	1.4	1.7	1.7	1.6
Critical (25%)	1.4	1.3	1.3	1.5	1.3	1.3	1.1	1.1	1.3	1.5	1.6	1.6

Alternative 4 H1 (LLT) minus Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.4	0.4	-0.1	0.0	-0.1	-0.4	0.2	0.8	1.5	1.6	1.5	1.4
20%	1.7	0.6	1.1	0.5	-0.3	0.1	1.2	1.6	1.8	1.8	1.6	1.8
30%	1.8	1.6	1.4	0.7	0.5	0.4	1.3	1.6	1.7	1.8	1.6	1.7
40%	1.7	1.6	1.6	1.1	0.4	0.5	1.5	1.6	1.7	1.7	1.7	1.7
50%	1.7	1.6	1.6	1.2	1.1	0.7	1.6	1.6	1.7	1.6	1.6	1.7
60%	1.7	1.6	1.6	1.5	1.5	0.7	1.6	1.6	1.7	1.6	1.6	1.7
70%	1.7	1.6	1.6	1.7	1.5	1.3	1.6	1.7	1.8	1.6	1.6	1.7
80%	1.7	1.7	1.6	1.7	1.6	1.5	1.6	1.7	1.8	1.6	1.6	1.7
90%	1.7	1.7	1.7	1.7	1.6	1.7	1.7	1.7	1.8	1.5	1.7	1.7
Long Term												
Full Simulation Period[a]	1.6	1.3	1.2	1.0	0.9	0.7	1.2	1.4	1.5	1.6	1.6	1.6
Water Year Types[b]												
Wet (31%)	1.4	0.6	0.3	0.4	0.0	-0.2	0.6	0.6	0.9	1.4	1.5	1.3
Above Normal (25%)	1.8	1.5	1.5	0.0	0.4	0.2	0.8	1.3	1.6	1.8	1.6	1.5
Below Normal (6%)	1.7	1.7	1.7	1.3	0.4	0.7	1.5	1.4	1.6	1.2	1.4	1.6
Dry (13%)	1.7	1.4	1.5	1.5	1.3	0.9	1.5	1.7	1.7	1.6	1.6	1.8
Critical (25%)	1.7	1.7	1.6	1.6	1.6	1.4	1.6	1.7	1.8	1.6	1.7	1.8

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-26-2-6. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Minimum Elevation

Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.3	1.9	4.6	4.3	5.8	5.2	2.9	0.9	0.0	0.4	0.2	0.4
20%	-0.1	1.1	0.6	3.3	4.9	3.8	0.3	-0.2	-0.3	0.2	0.1	0.0
30%	-0.2	-0.2	0.2	1.9	2.3	2.6	0.1	-0.2	-0.3	0.1	0.0	-0.1
40%	-0.3	-0.3	0.0	0.7	1.5	1.5	-0.1	-0.3	-0.3	0.1	0.0	-0.1
50%	-0.3	-0.4	-0.1	0.6	0.6	1.1	-0.2	-0.4	-0.4	0.1	0.0	-0.1
60%	-0.3	-0.4	-0.1	0.1	-0.1	1.0	-0.3	-0.4	-0.4	0.1	0.0	-0.2
70%	-0.4	-0.5	-0.2	-0.2	-0.2	0.2	-0.4	-0.5	-0.5	0.0	-0.1	-0.2
80%	-0.4	-0.6	-0.4	-0.3	-0.2	-0.3	-0.4	-0.6	-0.5	-0.1	-0.1	-0.2
90%	-0.4	-0.6	-0.6	-0.5	-0.4	-0.5	-0.6	-0.7	-0.5	-0.1	-0.2	-0.3
Long Term												
Full Simulation Period[a]	-0.2	0.2	0.8	1.3	1.8	1.9	0.5	0.0	-0.1	0.1	0.0	0.0
Water Year Types[b]												
Wet (31%)	0.1	1.8	3.8	3.0	4.8	4.8	2.4	1.1	0.8	0.5	0.2	0.5
Above Normal (25%)	-0.4	-0.3	0.1	4.3	4.1	3.3	0.8	0.0	-0.3	0.0	0.0	-0.1
Below Normal (6%)	-0.1	-0.4	-0.6	0.7	1.7	1.2	-0.1	-0.2	-0.3	0.1	0.0	-0.2
Dry (13%)	-0.4	-0.1	-0.1	-0.1	0.1	0.9	-0.2	-0.4	-0.4	0.1	0.0	-0.1
Critical (25%)	-0.3	-0.4	-0.3	-0.1	-0.3	-0.1	-0.5	-0.7	-0.5	0.0	-0.2	-0.2

Alternative 4 H2 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	2.3	4.5	4.3	5.8	4.8	3.1	1.7	1.5	1.9	1.7	1.8
20%	1.6	1.8	1.7	3.8	4.6	4.0	1.9	1.5	1.4	1.8	1.7	1.7
30%	1.5	1.4	1.6	2.6	2.9	3.0	1.7	1.4	1.4	1.7	1.7	1.6
40%	1.4	1.3	1.6	1.7	1.9	2.0	1.5	1.3	1.4	1.7	1.6	1.6
50%	1.4	1.3	1.4	1.6	1.7	1.9	1.4	1.3	1.3	1.6	1.6	1.6
60%	1.4	1.2	1.4	1.6	1.4	1.7	1.3	1.2	1.3	1.6	1.5	1.5
70%	1.3	1.2	1.3	1.4	1.3	1.5	1.2	1.2	1.3	1.5	1.5	1.5
80%	1.3	1.1	1.1	1.4	1.3	1.2	1.2	1.1	1.3	1.4	1.5	1.5
90%	1.3	1.1	1.1	1.2	1.2	1.2	1.0	1.0	1.2	1.3	1.4	1.4
Long Term												
Full Simulation Period[a]	1.4	1.5	2.1	2.3	2.7	2.6	1.8	1.4	1.4	1.6	1.6	1.6
Water Year Types[b]												
Wet (31%)	1.5	2.4	4.1	3.4	4.8	4.6	3.2	1.8	1.6	1.8	1.6	1.8
Above Normal (25%)	1.5	1.2	1.6	4.4	4.5	3.5	2.0	1.5	1.3	1.5	1.5	1.4
Below Normal (6%)	1.4	1.3	1.1	1.9	2.1	1.9	1.4	1.2	1.3	1.3	1.4	1.4
Dry (13%)	1.3	1.3	1.4	1.3	1.4	1.9	1.3	1.3	1.4	1.7	1.6	1.5
Critical (25%)	1.5	1.3	1.3	1.5	1.3	1.3	1.1	1.1	1.2	1.6	1.6	1.6

Alternative 4 H2 (LLT) minus Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.4	0.4	-0.1	0.0	-0.1	-0.4	0.3	0.8	1.5	1.5	1.5	1.4
20%	1.8	0.6	1.2	0.5	-0.3	0.1	1.6	1.6	1.7	1.6	1.6	1.7
30%	1.8	1.6	1.4	0.7	0.6	0.4	1.5	1.6	1.7	1.5	1.6	1.7
40%	1.7	1.5	1.6	1.1	0.4	0.5	1.7	1.6	1.7	1.5	1.6	1.7
50%	1.7	1.6	1.5	1.1	1.1	0.7	1.6	1.6	1.7	1.5	1.6	1.7
60%	1.7	1.6	1.5	1.5	1.5	0.7	1.6	1.6	1.7	1.5	1.6	1.7
70%	1.7	1.6	1.6	1.6	1.5	1.3	1.6	1.7	1.7	1.5	1.6	1.7
80%	1.7	1.7	1.5	1.7	1.5	1.5	1.6	1.7	1.8	1.5	1.6	1.7
90%	1.7	1.7	1.7	1.7	1.6	1.7	1.6	1.7	1.7	1.5	1.7	1.7
Long Term												
Full Simulation Period[a]	1.7	1.3	1.2	1.0	0.9	0.7	1.3	1.4	1.5	1.5	1.6	1.6
Water Year Types[b]												
Wet (31%)	1.4	0.6	0.3	0.4	0.0	-0.2	0.8	0.6	0.9	1.3	1.5	1.3
Above Normal (25%)	1.9	1.5	1.5	0.0	0.4	0.3	1.2	1.4	1.6	1.5	1.5	1.5
Below Normal (6%)	1.5	1.6	1.7	1.3	0.5	0.8	1.5	1.4	1.6	1.2	1.4	1.6
Dry (13%)	1.7	1.4	1.5	1.4	1.3	1.0	1.5	1.7	1.7	1.6	1.6	1.7
Critical (25%)	1.8	1.7	1.6	1.5	1.6	1.5	1.6	1.7	1.8	1.6	1.7	1.8

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-26-2-7. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Minimum Elevation

Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.3	1.9	4.6	4.3	5.8	5.2	2.9	0.9	0.0	0.4	0.2	0.4
20%	-0.1	1.1	0.6	3.3	4.9	3.8	0.3	-0.2	-0.3	0.2	0.1	0.0
30%	-0.2	-0.2	0.2	1.9	2.3	2.6	0.1	-0.2	-0.3	0.1	0.0	-0.1
40%	-0.3	-0.3	0.0	0.7	1.5	1.5	-0.1	-0.3	-0.3	0.1	0.0	-0.1
50%	-0.3	-0.4	-0.1	0.6	0.6	1.1	-0.2	-0.4	-0.4	0.1	0.0	-0.1
60%	-0.3	-0.4	-0.1	0.1	-0.1	1.0	-0.3	-0.4	-0.4	0.1	0.0	-0.2
70%	-0.4	-0.5	-0.2	-0.2	-0.2	0.2	-0.4	-0.5	-0.5	0.0	-0.1	-0.2
80%	-0.4	-0.6	-0.4	-0.3	-0.2	-0.3	-0.4	-0.6	-0.5	-0.1	-0.1	-0.2
90%	-0.4	-0.6	-0.6	-0.5	-0.4	-0.5	-0.6	-0.7	-0.5	-0.1	-0.2	-0.3
Long Term												
Full Simulation Period[a]	-0.2	0.2	0.8	1.3	1.8	1.9	0.5	0.0	-0.1	0.1	0.0	0.0
Water Year Types[b]												
Wet (31%)	0.1	1.8	3.8	3.0	4.8	4.8	2.4	1.1	0.8	0.5	0.2	0.5
Above Normal (25%)	-0.4	-0.3	0.1	4.3	4.1	3.3	0.8	0.0	-0.3	0.0	0.0	-0.1
Below Normal (6%)	-0.1	-0.4	-0.6	0.7	1.7	1.2	-0.1	-0.2	-0.3	0.1	0.0	-0.2
Dry (13%)	-0.4	-0.1	-0.1	-0.1	0.1	0.9	-0.2	-0.4	-0.4	0.1	0.0	-0.1
Critical (25%)	-0.3	-0.4	-0.3	-0.1	-0.3	-0.1	-0.5	-0.7	-0.5	0.0	-0.2	-0.2

Alternative 4 H3 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	2.3	4.4	4.3	5.6	4.7	3.1	1.6	1.6	2.0	1.7	2.1
20%	1.5	1.7	1.6	3.8	4.6	4.0	1.6	1.4	1.5	1.9	1.7	1.9
30%	1.5	1.4	1.6	2.6	2.8	2.7	1.4	1.3	1.4	1.9	1.7	1.7
40%	1.4	1.4	1.5	1.8	1.9	2.0	1.3	1.3	1.4	1.8	1.6	1.6
50%	1.4	1.3	1.5	1.7	1.7	1.8	1.3	1.2	1.3	1.7	1.6	1.6
60%	1.4	1.3	1.4	1.7	1.4	1.7	1.3	1.2	1.3	1.6	1.6	1.6
70%	1.3	1.2	1.4	1.4	1.4	1.4	1.2	1.2	1.3	1.6	1.5	1.6
80%	1.3	1.2	1.1	1.3	1.3	1.2	1.1	1.1	1.3	1.5	1.5	1.5
90%	1.3	1.1	1.1	1.2	1.2	1.2	1.1	1.0	1.2	1.4	1.4	1.5
Long Term												
Full Simulation Period[a]	1.4	1.5	2.0	2.3	2.6	2.5	1.7	1.3	1.4	1.7	1.6	1.7
Water Year Types[b]												
Wet (31%)	1.5	2.4	4.1	3.4	4.8	4.5	3.0	1.7	1.7	1.9	1.6	2.1
Above Normal (25%)	1.5	1.2	1.6	4.2	4.3	3.5	1.6	1.3	1.3	1.8	1.6	1.6
Below Normal (6%)	1.4	1.3	1.1	1.9	2.0	1.9	1.4	1.2	1.3	1.3	1.4	1.5
Dry (13%)	1.3	1.3	1.4	1.3	1.4	1.7	1.3	1.3	1.4	1.7	1.6	1.6
Critical (25%)	1.4	1.3	1.3	1.5	1.3	1.3	1.1	1.1	1.2	1.5	1.6	1.6

Alternative 4 H3 (LLT) minus Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.4	0.4	-0.2	0.0	-0.2	-0.4	0.2	0.8	1.5	1.6	1.5	1.7
20%	1.7	0.6	1.1	0.5	-0.3	0.1	1.2	1.6	1.8	1.8	1.6	2.0
30%	1.7	1.6	1.4	0.7	0.6	0.2	1.3	1.6	1.7	1.7	1.6	1.7
40%	1.7	1.7	1.6	1.2	0.4	0.5	1.5	1.6	1.7	1.7	1.7	1.7
50%	1.7	1.7	1.6	1.1	1.1	0.7	1.6	1.6	1.7	1.6	1.6	1.7
60%	1.7	1.6	1.6	1.5	1.5	0.7	1.6	1.6	1.7	1.6	1.6	1.8
70%	1.7	1.7	1.6	1.6	1.5	1.3	1.6	1.7	1.8	1.5	1.6	1.8
80%	1.7	1.7	1.5	1.6	1.5	1.5	1.6	1.7	1.8	1.6	1.6	1.8
90%	1.7	1.7	1.7	1.6	1.6	1.7	1.6	1.7	1.8	1.5	1.7	1.7
Long Term												
Full Simulation Period[a]	1.6	1.3	1.2	1.0	0.9	0.7	1.2	1.4	1.5	1.6	1.6	1.7
Water Year Types[b]												
Wet (31%)	1.4	0.6	0.2	0.4	0.0	-0.3	0.6	0.6	0.9	1.4	1.5	1.6
Above Normal (25%)	1.9	1.5	1.5	-0.1	0.2	0.2	0.8	1.3	1.6	1.8	1.6	1.7
Below Normal (6%)	1.6	1.7	1.7	1.2	0.4	0.7	1.5	1.4	1.7	1.2	1.4	1.7
Dry (13%)	1.7	1.4	1.5	1.4	1.3	0.8	1.5	1.7	1.7	1.6	1.6	1.7
Critical (25%)	1.7	1.7	1.6	1.5	1.6	1.4	1.6	1.7	1.8	1.6	1.7	1.8

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-26-2-8. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Minimum Elevation

Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.3	1.9	4.6	4.3	5.8	5.2	2.9	0.9	0.0	0.4	0.2	0.4
20%	-0.1	1.1	0.6	3.3	4.9	3.8	0.3	-0.2	-0.3	0.2	0.1	0.0
30%	-0.2	-0.2	0.2	1.9	2.3	2.6	0.1	-0.2	-0.3	0.1	0.0	-0.1
40%	-0.3	-0.3	0.0	0.7	1.5	1.5	-0.1	-0.3	-0.3	0.1	0.0	-0.1
50%	-0.3	-0.4	-0.1	0.6	0.6	1.1	-0.2	-0.4	-0.4	0.1	0.0	-0.1
60%	-0.3	-0.4	-0.1	0.1	-0.1	1.0	-0.3	-0.4	-0.4	0.1	0.0	-0.2
70%	-0.4	-0.5	-0.2	-0.2	-0.2	0.2	-0.4	-0.5	-0.5	0.0	-0.1	-0.2
80%	-0.4	-0.6	-0.4	-0.3	-0.2	-0.3	-0.4	-0.6	-0.5	-0.1	-0.1	-0.2
90%	-0.4	-0.6	-0.6	-0.5	-0.4	-0.5	-0.6	-0.7	-0.5	-0.1	-0.2	-0.3
Long Term												
Full Simulation Period[a]	-0.2	0.2	0.8	1.3	1.8	1.9	0.5	0.0	-0.1	0.1	0.0	0.0
Water Year Types[b]												
Wet (31%)	0.1	1.8	3.8	3.0	4.8	4.8	2.4	1.1	0.8	0.5	0.2	0.5
Above Normal (25%)	-0.4	-0.3	0.1	4.3	4.1	3.3	0.8	0.0	-0.3	0.0	0.0	-0.1
Below Normal (6%)	-0.1	-0.4	-0.6	0.7	1.7	1.2	-0.1	-0.2	-0.3	0.1	0.0	-0.2
Dry (13%)	-0.4	-0.1	-0.1	-0.1	0.1	0.9	-0.2	-0.4	-0.4	0.1	0.0	-0.1
Critical (25%)	-0.3	-0.4	-0.3	-0.1	-0.3	-0.1	-0.5	-0.7	-0.5	0.0	-0.2	-0.2

Alternative 4 H4 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	2.2	4.4	4.3	5.6	4.8	3.1	1.7	1.5	1.9	1.7	2.1
20%	1.5	1.7	1.6	3.8	4.6	4.0	1.9	1.5	1.4	1.8	1.7	1.9
30%	1.5	1.4	1.6	2.6	2.9	2.9	1.7	1.4	1.4	1.7	1.7	1.7
40%	1.5	1.4	1.6	1.7	1.9	2.0	1.5	1.3	1.4	1.6	1.6	1.6
50%	1.5	1.3	1.4	1.6	1.7	1.8	1.4	1.3	1.3	1.6	1.6	1.6
60%	1.4	1.3	1.4	1.5	1.4	1.7	1.3	1.2	1.3	1.6	1.5	1.6
70%	1.4	1.2	1.3	1.4	1.3	1.4	1.3	1.2	1.3	1.5	1.5	1.6
80%	1.3	1.2	1.2	1.3	1.3	1.2	1.2	1.1	1.3	1.4	1.5	1.5
90%	1.3	1.1	1.1	1.1	1.2	1.2	1.0	1.0	1.2	1.3	1.4	1.5
Long Term												
Full Simulation Period[a]	1.5	1.5	2.0	2.3	2.6	2.5	1.8	1.4	1.4	1.6	1.6	1.7
Water Year Types[b]												
Wet (31%)	1.6	2.3	4.1	3.4	4.8	4.5	3.2	1.8	1.6	1.8	1.6	2.1
Above Normal (25%)	1.5	1.2	1.6	4.3	4.4	3.5	2.0	1.5	1.3	1.5	1.5	1.6
Below Normal (6%)	1.5	1.3	1.2	1.9	2.1	1.9	1.4	1.2	1.3	1.3	1.4	1.4
Dry (13%)	1.3	1.3	1.4	1.3	1.4	1.8	1.3	1.3	1.4	1.6	1.6	1.6
Critical (25%)	1.4	1.3	1.3	1.3	1.3	1.3	1.1	1.1	1.2	1.6	1.6	1.6

Alternative 4 H4 (LLT) minus Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.4	0.3	-0.2	0.0	-0.2	-0.4	0.3	0.8	1.5	1.5	1.5	1.7
20%	1.7	0.6	1.1	0.5	-0.3	0.1	1.6	1.6	1.7	1.6	1.6	2.0
30%	1.7	1.6	1.4	0.7	0.6	0.4	1.5	1.6	1.7	1.6	1.7	1.7
40%	1.7	1.7	1.6	1.1	0.4	0.5	1.7	1.6	1.7	1.5	1.6	1.7
50%	1.8	1.7	1.5	1.1	1.1	0.7	1.6	1.6	1.7	1.5	1.6	1.7
60%	1.7	1.6	1.5	1.3	1.5	0.7	1.6	1.6	1.7	1.5	1.6	1.8
70%	1.7	1.7	1.6	1.6	1.5	1.3	1.6	1.7	1.7	1.5	1.6	1.8
80%	1.7	1.7	1.6	1.6	1.5	1.5	1.6	1.7	1.8	1.5	1.6	1.8
90%	1.7	1.7	1.7	1.6	1.6	1.7	1.6	1.7	1.7	1.5	1.7	1.7
Long Term												
Full Simulation Period[a]	1.7	1.3	1.2	1.0	0.9	0.7	1.3	1.4	1.5	1.5	1.6	1.7
Water Year Types[b]												
Wet (31%)	1.4	0.6	0.3	0.4	0.0	-0.2	0.8	0.6	0.9	1.3	1.5	1.6
Above Normal (25%)	1.9	1.5	1.5	0.0	0.3	0.2	1.2	1.4	1.6	1.5	1.5	1.7
Below Normal (6%)	1.6	1.7	1.7	1.3	0.4	0.7	1.5	1.4	1.6	1.2	1.5	1.6
Dry (13%)	1.7	1.4	1.5	1.4	1.3	0.9	1.5	1.7	1.7	1.5	1.6	1.7
Critical (25%)	1.7	1.7	1.6	1.4	1.6	1.4	1.6	1.7	1.8	1.6	1.7	1.8

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-26-2-9. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Minimum Elevation

Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.3	1.9	4.6	4.3	5.8	5.2	2.9	0.9	0.0	0.4	0.2	0.4
20%	-0.1	1.1	0.6	3.3	4.9	3.8	0.3	-0.2	-0.3	0.2	0.1	0.0
30%	-0.2	-0.2	0.2	1.9	2.3	2.6	0.1	-0.2	-0.3	0.1	0.0	-0.1
40%	-0.3	-0.3	0.0	0.7	1.5	1.5	-0.1	-0.3	-0.3	0.1	0.0	-0.1
50%	-0.3	-0.4	-0.1	0.6	0.6	1.1	-0.2	-0.4	-0.4	0.1	0.0	-0.1
60%	-0.3	-0.4	-0.1	0.1	-0.1	1.0	-0.3	-0.4	-0.4	0.1	0.0	-0.2
70%	-0.4	-0.5	-0.2	-0.2	-0.2	0.2	-0.4	-0.5	-0.5	0.0	-0.1	-0.2
80%	-0.4	-0.6	-0.4	-0.3	-0.2	-0.3	-0.4	-0.6	-0.5	-0.1	-0.1	-0.2
90%	-0.4	-0.6	-0.6	-0.5	-0.4	-0.5	-0.6	-0.7	-0.5	-0.1	-0.2	-0.3
Long Term												
Full Simulation Period[a]	-0.2	0.2	0.8	1.3	1.8	1.9	0.5	0.0	-0.1	0.1	0.0	0.0
Water Year Types[b]												
Wet (31%)	0.1	1.8	3.8	3.0	4.8	4.8	2.4	1.1	0.8	0.5	0.2	0.5
Above Normal (25%)	-0.4	-0.3	0.1	4.3	4.1	3.3	0.8	0.0	-0.3	0.0	0.0	-0.1
Below Normal (6%)	-0.1	-0.4	-0.6	0.7	1.7	1.2	-0.1	-0.2	-0.3	0.1	0.0	-0.2
Dry (13%)	-0.4	-0.1	-0.1	-0.1	0.1	0.9	-0.2	-0.4	-0.4	0.1	0.0	-0.1
Critical (25%)	-0.3	-0.4	-0.3	-0.1	-0.3	-0.1	-0.5	-0.7	-0.5	0.0	-0.2	-0.2

Alternative 5 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	2.4	4.8	4.7	6.0	5.2	3.5	1.7	1.7	2.0	1.8	2.2
20%	1.5	1.8	1.7	4.2	5.1	4.3	1.6	1.4	1.4	1.9	1.7	2.1
30%	1.5	1.4	1.6	2.8	3.1	3.0	1.5	1.3	1.4	1.8	1.7	1.7
40%	1.5	1.4	1.6	1.8	2.2	2.1	1.4	1.3	1.4	1.8	1.7	1.7
50%	1.5	1.4	1.5	1.7	1.7	2.0	1.3	1.2	1.4	1.7	1.6	1.6
60%	1.4	1.3	1.4	1.6	1.4	1.7	1.3	1.2	1.3	1.6	1.6	1.6
70%	1.4	1.3	1.3	1.5	1.4	1.5	1.2	1.1	1.3	1.6	1.5	1.6
80%	1.3	1.2	1.2	1.3	1.3	1.2	1.1	1.1	1.3	1.5	1.5	1.5
90%	1.3	1.2	1.1	1.2	1.2	1.2	1.0	1.0	1.3	1.4	1.5	1.4
Long Term												
Full Simulation Period[a]	1.5	1.6	2.1	2.4	2.8	2.7	1.8	1.4	1.4	1.7	1.6	1.7
Water Year Types[b]												
Wet (31%)	1.6	2.5	4.4	3.7	5.2	4.9	3.3	1.8	1.8	1.9	1.8	2.2
Above Normal (25%)	1.4	1.3	1.6	4.6	4.7	3.7	1.8	1.4	1.4	1.7	1.6	1.7
Below Normal (6%)	1.5	1.3	1.2	1.9	2.2	2.0	1.4	1.2	1.4	1.5	1.5	1.5
Dry (13%)	1.4	1.3	1.4	1.4	1.5	1.9	1.3	1.3	1.4	1.7	1.6	1.5
Critical (25%)	1.5	1.3	1.3	1.4	1.3	1.3	1.2	1.1	1.2	1.6	1.6	1.6

Alternative 5 (LLT) minus Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.4	0.5	0.2	0.4	0.2	0.0	0.6	0.9	1.6	1.6	1.6	1.8
20%	1.7	0.7	1.1	0.9	0.1	0.5	1.3	1.6	1.7	1.7	1.6	2.1
30%	1.8	1.6	1.4	0.9	0.8	0.5	1.3	1.6	1.7	1.6	1.7	1.7
40%	1.8	1.7	1.6	1.2	0.7	0.6	1.5	1.5	1.7	1.7	1.7	1.8
50%	1.8	1.7	1.6	1.2	1.1	0.9	1.6	1.6	1.7	1.6	1.7	1.7
60%	1.7	1.7	1.6	1.5	1.5	0.7	1.6	1.6	1.7	1.6	1.6	1.8
70%	1.8	1.8	1.6	1.7	1.5	1.3	1.6	1.7	1.8	1.6	1.6	1.8
80%	1.8	1.8	1.6	1.6	1.6	1.5	1.6	1.7	1.8	1.6	1.6	1.8
90%	1.8	1.8	1.7	1.6	1.6	1.6	1.6	1.7	1.8	1.6	1.7	1.7
Long Term												
Full Simulation Period[a]	1.7	1.4	1.3	1.1	1.0	0.8	1.3	1.4	1.6	1.6	1.6	1.7
Water Year Types[b]												
Wet (31%)	1.5	0.8	0.5	0.6	0.3	0.1	0.9	0.7	1.0	1.4	1.6	1.7
Above Normal (25%)	1.8	1.6	1.5	0.3	0.6	0.5	0.9	1.3	1.7	1.7	1.6	1.8
Below Normal (6%)	1.6	1.7	1.8	1.3	0.5	0.8	1.5	1.4	1.8	1.5	1.5	1.6
Dry (13%)	1.7	1.5	1.5	1.5	1.4	1.0	1.5	1.7	1.7	1.6	1.6	1.7
Critical (25%)	1.8	1.7	1.6	1.5	1.6	1.5	1.6	1.7	1.8	1.6	1.7	1.8

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-26-2-10. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Minimum Elevation

Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.3	1.9	4.6	4.3	5.8	5.2	2.9	0.9	0.0	0.4	0.2	0.4
20%	-0.1	1.1	0.6	3.3	4.9	3.8	0.3	-0.2	-0.3	0.2	0.1	0.0
30%	-0.2	-0.2	0.2	1.9	2.3	2.6	0.1	-0.2	-0.3	0.1	0.0	-0.1
40%	-0.3	-0.3	0.0	0.7	1.5	1.5	-0.1	-0.3	-0.3	0.1	0.0	-0.1
50%	-0.3	-0.4	-0.1	0.6	0.6	1.1	-0.2	-0.4	-0.4	0.1	0.0	-0.1
60%	-0.3	-0.4	-0.1	0.1	-0.1	1.0	-0.3	-0.4	-0.4	0.1	0.0	-0.2
70%	-0.4	-0.5	-0.2	-0.2	-0.2	0.2	-0.4	-0.5	-0.5	0.0	-0.1	-0.2
80%	-0.4	-0.6	-0.4	-0.3	-0.2	-0.3	-0.4	-0.6	-0.5	-0.1	-0.1	-0.2
90%	-0.4	-0.6	-0.6	-0.5	-0.4	-0.5	-0.6	-0.7	-0.5	-0.1	-0.2	-0.3
Long Term												
Full Simulation Period[a]	-0.2	0.2	0.8	1.3	1.8	1.9	0.5	0.0	-0.1	0.1	0.0	0.0
Water Year Types[b]												
Wet (31%)	0.1	1.8	3.8	3.0	4.8	4.8	2.4	1.1	0.8	0.5	0.2	0.5
Above Normal (25%)	-0.4	-0.3	0.1	4.3	4.1	3.3	0.8	0.0	-0.3	0.0	0.0	-0.1
Below Normal (6%)	-0.1	-0.4	-0.6	0.7	1.7	1.2	-0.1	-0.2	-0.3	0.1	0.0	-0.2
Dry (13%)	-0.4	-0.1	-0.1	-0.1	0.1	0.9	-0.2	-0.4	-0.4	0.1	0.0	-0.1
Critical (25%)	-0.3	-0.4	-0.3	-0.1	-0.3	-0.1	-0.5	-0.7	-0.5	0.0	-0.2	-0.2

Alternative 6A,6B,6C (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.5	2.3	4.3	4.0	5.3	4.5	3.0	1.5	1.5	1.7	1.6	1.9
20%	1.4	1.7	1.7	3.6	4.6	3.8	1.6	1.4	1.4	1.5	1.6	1.7
30%	1.4	1.3	1.6	2.7	2.8	2.7	1.4	1.3	1.4	1.4	1.5	1.6
40%	1.3	1.3	1.5	1.7	2.0	2.0	1.4	1.3	1.4	1.4	1.5	1.5
50%	1.3	1.3	1.4	1.7	1.7	1.9	1.3	1.2	1.3	1.3	1.4	1.5
60%	1.3	1.2	1.4	1.5	1.6	1.7	1.3	1.2	1.3	1.3	1.4	1.5
70%	1.3	1.2	1.3	1.4	1.3	1.5	1.2	1.2	1.3	1.3	1.4	1.4
80%	1.2	1.2	1.1	1.2	1.3	1.2	1.2	1.1	1.3	1.3	1.3	1.4
90%	1.2	1.1	1.1	1.1	1.2	1.2	1.1	1.0	1.2	1.3	1.3	1.3
Long Term												
Full Simulation Period[a]	1.3	1.5	2.0	2.2	2.6	2.5	1.7	1.3	1.4	1.4	1.5	1.5
Water Year Types[b]												
Wet (31%)	1.4	2.3	4.0	3.3	4.7	4.4	2.9	1.7	1.6	1.6	1.6	1.9
Above Normal (25%)	1.3	1.2	1.6	4.0	4.1	3.3	1.6	1.4	1.3	1.4	1.4	1.4
Below Normal (6%)	1.4	1.2	1.1	1.9	2.0	1.9	1.4	1.2	1.4	1.2	1.3	1.3
Dry (13%)	1.3	1.3	1.4	1.3	1.4	1.8	1.3	1.3	1.4	1.3	1.4	1.4
Critical (25%)	1.3	1.3	1.3	1.3	1.3	1.3	1.1	1.1	1.2	1.4	1.5	1.5

Alternative 6A,6B,6C (LLT) minus Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.2	0.4	-0.3	-0.3	-0.5	-0.6	0.1	0.7	1.5	1.3	1.4	1.5
20%	1.5	0.6	1.1	0.3	-0.4	0.0	1.3	1.6	1.7	1.3	1.5	1.7
30%	1.6	1.5	1.4	0.8	0.5	0.1	1.3	1.6	1.7	1.3	1.5	1.6
40%	1.6	1.6	1.5	1.1	0.5	0.5	1.5	1.6	1.7	1.3	1.5	1.6
50%	1.6	1.6	1.5	1.2	1.1	0.7	1.6	1.6	1.7	1.3	1.5	1.6
60%	1.6	1.6	1.5	1.3	1.8	0.7	1.6	1.6	1.7	1.3	1.5	1.6
70%	1.6	1.7	1.6	1.6	1.5	1.3	1.5	1.7	1.7	1.3	1.5	1.6
80%	1.6	1.7	1.5	1.6	1.5	1.5	1.6	1.7	1.8	1.4	1.5	1.6
90%	1.7	1.7	1.7	1.6	1.6	1.6	1.7	1.7	1.8	1.4	1.5	1.6
Long Term												
Full Simulation Period[a]	1.5	1.3	1.2	0.9	0.8	0.6	1.2	1.3	1.5	1.3	1.5	1.5
Water Year Types[b]												
Wet (31%)	1.3	0.5	0.2	0.2	-0.1	-0.3	0.5	0.5	0.8	1.2	1.4	1.4
Above Normal (25%)	1.7	1.5	1.5	-0.3	0.0	0.1	0.8	1.3	1.6	1.3	1.4	1.5
Below Normal (6%)	1.5	1.6	1.7	1.2	0.4	0.7	1.5	1.4	1.7	1.2	1.4	1.5
Dry (13%)	1.6	1.4	1.5	1.4	1.3	0.9	1.5	1.6	1.7	1.2	1.3	1.6
Critical (25%)	1.6	1.7	1.6	1.4	1.6	1.4	1.6	1.7	1.8	1.4	1.6	1.7

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-26-2-11. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Minimum Elevation

Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.3	1.9	4.6	4.3	5.8	5.2	2.9	0.9	0.0	0.4	0.2	0.4
20%	-0.1	1.1	0.6	3.3	4.9	3.8	0.3	-0.2	-0.3	0.2	0.1	0.0
30%	-0.2	-0.2	0.2	1.9	2.3	2.6	0.1	-0.2	-0.3	0.1	0.0	-0.1
40%	-0.3	-0.3	0.0	0.7	1.5	1.5	-0.1	-0.3	-0.3	0.1	0.0	-0.1
50%	-0.3	-0.4	-0.1	0.6	0.6	1.1	-0.2	-0.4	-0.4	0.1	0.0	-0.1
60%	-0.3	-0.4	-0.1	0.1	-0.1	1.0	-0.3	-0.4	-0.4	0.1	0.0	-0.2
70%	-0.4	-0.5	-0.2	-0.2	-0.2	0.2	-0.4	-0.5	-0.5	0.0	-0.1	-0.2
80%	-0.4	-0.6	-0.4	-0.3	-0.2	-0.3	-0.4	-0.6	-0.5	-0.1	-0.1	-0.2
90%	-0.4	-0.6	-0.6	-0.5	-0.4	-0.5	-0.6	-0.7	-0.5	-0.1	-0.2	-0.3
Long Term												
Full Simulation Period[a]	-0.2	0.2	0.8	1.3	1.8	1.9	0.5	0.0	-0.1	0.1	0.0	0.0
Water Year Types[b]												
Wet (31%)	0.1	1.8	3.8	3.0	4.8	4.8	2.4	1.1	0.8	0.5	0.2	0.5
Above Normal (25%)	-0.4	-0.3	0.1	4.3	4.1	3.3	0.8	0.0	-0.3	0.0	0.0	-0.1
Below Normal (6%)	-0.1	-0.4	-0.6	0.7	1.7	1.2	-0.1	-0.2	-0.3	0.1	0.0	-0.2
Dry (13%)	-0.4	-0.1	-0.1	-0.1	0.1	0.9	-0.2	-0.4	-0.4	0.1	0.0	-0.1
Critical (25%)	-0.3	-0.4	-0.3	-0.1	-0.3	-0.1	-0.5	-0.7	-0.5	0.0	-0.2	-0.2

Alternative 7 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.5	2.3	4.6	4.2	5.6	4.7	3.1	1.6	1.5	1.9	1.8	2.1
20%	1.4	1.7	1.7	3.9	4.6	3.9	1.5	1.4	1.4	1.8	1.8	2.0
30%	1.4	1.4	1.6	2.6	2.8	2.7	1.4	1.3	1.4	1.8	1.7	1.7
40%	1.4	1.3	1.5	1.8	1.9	2.0	1.4	1.3	1.4	1.7	1.7	1.6
50%	1.3	1.3	1.4	1.7	1.7	1.8	1.3	1.2	1.4	1.7	1.6	1.6
60%	1.3	1.2	1.4	1.5	1.7	1.7	1.3	1.2	1.3	1.6	1.6	1.6
70%	1.3	1.2	1.3	1.4	1.4	1.5	1.2	1.2	1.3	1.6	1.6	1.5
80%	1.3	1.2	1.1	1.3	1.3	1.2	1.2	1.1	1.3	1.5	1.6	1.5
90%	1.3	1.1	1.1	1.1	1.2	1.2	1.1	1.0	1.2	1.5	1.5	1.5
Long Term												
Full Simulation Period[a]	1.4	1.5	2.1	2.3	2.6	2.5	1.7	1.3	1.4	1.7	1.7	1.7
Water Year Types[b]												
Wet (31%)	1.5	2.4	4.2	3.4	4.8	4.5	3.0	1.7	1.6	1.9	1.8	2.1
Above Normal (25%)	1.3	1.2	1.6	4.3	4.3	3.3	1.6	1.3	1.3	1.7	1.6	1.6
Below Normal (6%)	1.4	1.3	1.1	1.9	2.0	2.0	1.4	1.2	1.4	1.5	1.6	1.5
Dry (13%)	1.3	1.3	1.4	1.4	1.5	1.8	1.3	1.3	1.4	1.7	1.6	1.5
Critical (25%)	1.4	1.3	1.3	1.4	1.4	1.3	1.1	1.1	1.3	1.5	1.6	1.6

Alternative 7 (LLT) minus Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.3	0.4	**0.0**	**-0.1**	**-0.2**	**-0.4**	0.2	0.7	1.5	1.5	1.6	1.7
20%	1.6	0.6	1.1	0.5	**-0.3**	0.1	1.2	1.6	1.7	1.6	1.7	2.0
30%	1.6	1.5	1.4	0.7	0.5	0.1	1.3	1.6	1.7	1.6	1.7	1.7
40%	1.6	1.6	1.5	1.1	0.4	0.5	1.5	1.5	1.7	1.6	1.7	1.7
50%	1.7	1.7	1.5	1.1	1.1	0.7	1.6	1.6	1.7	1.6	1.7	1.7
60%	1.7	1.6	1.6	1.4	1.8	0.8	1.6	1.6	1.7	1.5	1.6	1.7
70%	1.7	1.7	1.6	1.6	1.5	1.3	1.5	1.7	1.8	1.6	1.7	1.7
80%	1.7	1.7	1.6	1.6	1.6	1.5	1.6	1.7	1.8	1.6	1.7	1.7
90%	1.7	1.7	1.7	1.6	1.6	1.6	1.7	1.7	1.8	1.6	1.7	1.7
Long Term												
Full Simulation Period[a]	1.6	1.3	1.2	1.0	0.9	0.7	1.2	1.3	1.5	1.5	1.7	1.7
Water Year Types[b]												
Wet (31%)	1.4	0.6	0.4	0.3	**0.0**	**-0.3**	0.6	0.6	0.8	1.4	1.6	1.6
Above Normal (25%)	1.7	1.6	1.5	**0.0**	0.2	0.1	0.8	1.3	1.6	1.7	1.6	1.7
Below Normal (6%)	1.5	1.7	1.7	1.3	0.4	0.8	1.5	1.4	1.7	1.5	1.6	1.7
Dry (13%)	1.7	1.4	1.5	1.4	1.4	0.9	1.5	1.6	1.7	1.6	1.6	1.6
Critical (25%)	1.7	1.7	1.6	1.4	1.6	1.4	1.6	1.7	1.8	1.5	1.8	1.8

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-26-2-12. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Minimum Elevation

Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.3	1.9	4.6	4.3	5.8	5.2	2.9	0.9	0.0	0.4	0.2	0.4
20%	-0.1	1.1	0.6	3.3	4.9	3.8	0.3	-0.2	-0.3	0.2	0.1	0.0
30%	-0.2	-0.2	0.2	1.9	2.3	2.6	0.1	-0.2	-0.3	0.1	0.0	-0.1
40%	-0.3	-0.3	0.0	0.7	1.5	1.5	-0.1	-0.3	-0.3	0.1	0.0	-0.1
50%	-0.3	-0.4	-0.1	0.6	0.6	1.1	-0.2	-0.4	-0.4	0.1	0.0	-0.1
60%	-0.3	-0.4	-0.1	0.1	-0.1	1.0	-0.3	-0.4	-0.4	0.1	0.0	-0.2
70%	-0.4	-0.5	-0.2	-0.2	-0.2	0.2	-0.4	-0.5	-0.5	0.0	-0.1	-0.2
80%	-0.4	-0.6	-0.4	-0.3	-0.2	-0.3	-0.4	-0.6	-0.5	-0.1	-0.1	-0.2
90%	-0.4	-0.6	-0.6	-0.5	-0.4	-0.5	-0.6	-0.7	-0.5	-0.1	-0.2	-0.3
Long Term												
Full Simulation Period[a]	-0.2	0.2	0.8	1.3	1.8	1.9	0.5	0.0	-0.1	0.1	0.0	0.0
Water Year Types[b]												
Wet (31%)	0.1	1.8	3.8	3.0	4.8	4.8	2.4	1.1	0.8	0.5	0.2	0.5
Above Normal (25%)	-0.4	-0.3	0.1	4.3	4.1	3.3	0.8	0.0	-0.3	0.0	0.0	-0.1
Below Normal (6%)	-0.1	-0.4	-0.6	0.7	1.7	1.2	-0.1	-0.2	-0.3	0.1	0.0	-0.2
Dry (13%)	-0.4	-0.1	-0.1	-0.1	0.1	0.9	-0.2	-0.4	-0.4	0.1	0.0	-0.1
Critical (25%)	-0.3	-0.4	-0.3	-0.1	-0.3	-0.1	-0.5	-0.7	-0.5	0.0	-0.2	-0.2

Alternative 8 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.6	2.5	4.6	4.3	5.5	4.7	3.3	1.7	1.5	1.8	1.8	2.1
20%	1.4	1.8	1.7	3.9	4.6	3.9	1.8	1.5	1.4	1.6	1.7	1.9
30%	1.4	1.4	1.6	2.6	3.1	2.9	1.5	1.3	1.4	1.6	1.7	1.7
40%	1.4	1.4	1.5	1.9	1.9	2.1	1.5	1.3	1.4	1.6	1.7	1.6
50%	1.3	1.3	1.4	1.8	1.8	2.0	1.4	1.3	1.4	1.5	1.6	1.6
60%	1.3	1.3	1.4	1.6	1.7	1.9	1.4	1.2	1.3	1.5	1.6	1.5
70%	1.3	1.2	1.3	1.4	1.4	1.5	1.3	1.2	1.3	1.5	1.6	1.5
80%	1.3	1.2	1.2	1.3	1.4	1.3	1.2	1.1	1.3	1.5	1.5	1.5
90%	1.3	1.1	1.1	1.1	1.2	1.3	1.2	1.1	1.2	1.4	1.5	1.4
Long Term												
Full Simulation Period[a]	1.4	1.6	2.1	2.3	2.7	2.6	1.8	1.4	1.4	1.6	1.6	1.7
Water Year Types[b]												
Wet (31%)	1.5	2.5	4.2	3.4	4.8	4.5	3.1	1.9	1.7	1.7	1.8	2.1
Above Normal (25%)	1.3	1.2	1.6	4.4	4.3	3.4	1.8	1.4	1.3	1.5	1.6	1.6
Below Normal (6%)	1.4	1.3	1.2	2.0	2.4	2.0	1.5	1.3	1.3	1.4	1.5	1.5
Dry (13%)	1.3	1.3	1.4	1.4	1.5	2.0	1.5	1.3	1.4	1.5	1.6	1.5
Critical (25%)	1.4	1.3	1.3	1.4	1.4	1.4	1.2	1.1	1.3	1.5	1.6	1.6

Alternative 8 (LLT) minus Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.3	0.5	**0.0**	**0.0**	**-0.3**	**-0.4**	0.4	0.9	1.5	1.4	1.6	1.7
20%	1.6	0.6	1.1	0.5	**-0.3**	0.0	1.4	1.6	1.7	1.4	1.6	2.0
30%	1.7	1.6	1.4	0.7	0.8	0.4	1.4	1.6	1.7	1.5	1.7	1.8
40%	1.6	1.7	1.5	1.3	0.4	0.6	1.6	1.6	1.7	1.4	1.7	1.7
50%	1.7	1.7	1.5	1.2	1.2	0.8	1.6	1.6	1.7	1.4	1.6	1.7
60%	1.7	1.7	1.6	1.4	1.8	0.9	1.7	1.7	1.7	1.5	1.6	1.7
70%	1.7	1.7	1.6	1.6	1.6	1.4	1.6	1.7	1.8	1.5	1.7	1.7
80%	1.7	1.8	1.6	1.6	1.6	1.6	1.6	1.7	1.8	1.5	1.6	1.7
90%	1.7	1.7	1.7	1.6	1.6	1.8	1.8	1.8	1.8	1.5	1.7	1.7
Long Term												
Full Simulation Period[a]	1.6	1.4	1.2	1.0	0.9	0.8	1.3	1.4	1.5	1.4	1.6	1.7
Water Year Types[b]												
Wet (31%)	1.4	0.7	0.4	0.4	**0.0**	**-0.3**	0.7	0.7	0.9	1.3	1.6	1.6
Above Normal (25%)	1.7	1.5	1.5	0.1	0.2	0.1	0.9	1.3	1.6	1.5	1.6	1.7
Below Normal (6%)	1.6	1.7	1.7	1.4	0.7	0.9	1.6	1.5	1.7	1.4	1.6	1.7
Dry (13%)	1.7	1.4	1.5	1.5	1.5	1.1	1.7	1.7	1.7	1.4	1.5	1.6
Critical (25%)	1.7	1.7	1.6	1.5	1.6	1.5	1.7	1.8	1.8	1.5	1.7	1.8

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-26-2-13. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Minimum Elevation

Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.3	1.9	4.6	4.3	5.8	5.2	2.9	0.9	0.0	0.4	0.2	0.4
20%	-0.1	1.1	0.6	3.3	4.9	3.8	0.3	-0.2	-0.3	0.2	0.1	0.0
30%	-0.2	-0.2	0.2	1.9	2.3	2.6	0.1	-0.2	-0.3	0.1	0.0	-0.1
40%	-0.3	-0.3	0.0	0.7	1.5	1.5	-0.1	-0.3	-0.3	0.1	0.0	-0.1
50%	-0.3	-0.4	-0.1	0.6	0.6	1.1	-0.2	-0.4	-0.4	0.1	0.0	-0.1
60%	-0.3	-0.4	-0.1	0.1	-0.1	1.0	-0.3	-0.4	-0.4	0.1	0.0	-0.2
70%	-0.4	-0.5	-0.2	-0.2	-0.2	0.2	-0.4	-0.5	-0.5	0.0	-0.1	-0.2
80%	-0.4	-0.6	-0.4	-0.3	-0.2	-0.3	-0.4	-0.6	-0.5	-0.1	-0.1	-0.2
90%	-0.4	-0.6	-0.6	-0.5	-0.4	-0.5	-0.6	-0.7	-0.5	-0.1	-0.2	-0.3
Long Term												
Full Simulation Period[a]	-0.2	0.2	0.8	1.3	1.8	1.9	0.5	0.0	-0.1	0.1	0.0	0.0
Water Year Types[b]												
Wet (31%)	0.1	1.8	3.8	3.0	4.8	4.8	2.4	1.1	0.8	0.5	0.2	0.5
Above Normal (25%)	-0.4	-0.3	0.1	4.3	4.1	3.3	0.8	0.0	-0.3	0.0	0.0	-0.1
Below Normal (6%)	-0.1	-0.4	-0.6	0.7	1.7	1.2	-0.1	-0.2	-0.3	0.1	0.0	-0.2
Dry (13%)	-0.4	-0.1	-0.1	-0.1	0.1	0.9	-0.2	-0.4	-0.4	0.1	0.0	-0.1
Critical (25%)	-0.3	-0.4	-0.3	-0.1	-0.3	-0.1	-0.5	-0.7	-0.5	0.0	-0.2	-0.2

Alternative 9 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.6	2.5	5.1	5.1	6.4	5.6	3.6	1.8	1.7	2.0	1.8	2.4
20%	1.5	1.8	1.7	4.6	5.5	4.7	1.6	1.5	1.4	1.8	1.7	2.2
30%	1.5	1.5	1.6	2.9	3.3	3.2	1.5	1.4	1.4	1.8	1.7	1.8
40%	1.4	1.4	1.5	1.9	2.4	2.2	1.4	1.4	1.4	1.7	1.7	1.7
50%	1.4	1.4	1.5	1.8	1.8	2.1	1.4	1.3	1.4	1.7	1.7	1.6
60%	1.4	1.4	1.4	1.5	1.4	1.8	1.3	1.2	1.3	1.6	1.6	1.6
70%	1.4	1.2	1.4	1.4	1.4	1.5	1.3	1.2	1.3	1.6	1.6	1.6
80%	1.3	1.2	1.2	1.3	1.3	1.2	1.2	1.2	1.3	1.5	1.5	1.5
90%	1.3	1.1	1.1	1.2	1.2	1.2	1.1	1.1	1.3	1.5	1.5	1.5
Long Term												
Full Simulation Period[a]	1.5	1.7	2.2	2.5	3.0	2.9	1.9	1.4	1.5	1.7	1.7	1.8
Water Year Types[b]												
Wet (31%)	1.6	2.6	4.7	4.0	5.5	5.2	3.5	2.0	1.8	1.9	1.8	2.4
Above Normal (25%)	1.3	1.3	1.6	5.0	5.1	4.0	1.9	1.4	1.4	1.8	1.7	1.8
Below Normal (6%)	1.5	1.4	1.2	2.0	2.4	2.1	1.4	1.2	1.4	1.5	1.5	1.5
Dry (13%)	1.4	1.4	1.4	1.4	1.5	2.0	1.3	1.4	1.4	1.7	1.6	1.5
Critical (25%)	1.4	1.3	1.3	1.4	1.3	1.4	1.2	1.1	1.3	1.6	1.6	1.5

Alternative 9 (LLT) minus Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.4	0.6	0.5	0.8	0.6	0.4	0.7	1.0	1.6	1.6	1.6	2.0
20%	1.6	0.7	1.1	1.2	0.6	0.9	1.3	1.7	1.7	1.6	1.6	2.3
30%	1.7	1.7	1.4	1.0	1.0	0.7	1.4	1.6	1.8	1.6	1.7	1.8
40%	1.7	1.7	1.6	1.2	0.9	0.7	1.5	1.6	1.7	1.6	1.7	1.8
50%	1.7	1.7	1.6	1.3	1.2	1.0	1.6	1.6	1.8	1.6	1.7	1.7
60%	1.8	1.7	1.6	1.4	1.5	0.8	1.7	1.7	1.7	1.6	1.7	1.7
70%	1.8	1.7	1.6	1.6	1.5	1.3	1.6	1.7	1.8	1.6	1.7	1.7
80%	1.7	1.7	1.6	1.7	1.6	1.5	1.6	1.8	1.8	1.6	1.7	1.7
90%	1.7	1.8	1.8	1.6	1.7	1.7	1.7	1.8	1.8	1.6	1.8	1.7
Long Term												
Full Simulation Period[a]	1.7	1.4	1.4	1.2	1.2	1.0	1.4	1.5	1.6	1.6	1.7	1.8
Water Year Types[b]												
Wet (31%)	1.5	0.9	0.8	0.9	0.7	0.5	1.0	0.8	1.0	1.4	1.7	1.9
Above Normal (25%)	1.7	1.6	1.5	0.7	1.0	0.8	1.1	1.4	1.7	1.7	1.7	1.8
Below Normal (6%)	1.6	1.8	1.8	1.3	0.7	1.0	1.5	1.4	1.7	1.5	1.6	1.7
Dry (13%)	1.8	1.5	1.5	1.5	1.4	1.1	1.6	1.8	1.8	1.6	1.6	1.7
Critical (25%)	1.7	1.7	1.6	1.5	1.6	1.5	1.7	1.8	1.8	1.6	1.7	1.8

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-26-2-14. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.2	2.3	5.3	5.4	6.7	5.8	3.8	1.5	1.1	1.6	1.4	2.2
20%	1.1	1.6	1.4	4.8	5.8	5.0	1.5	1.0	0.9	1.6	1.3	1.7
30%	1.1	1.1	1.3	3.0	3.4	3.5	1.2	1.0	0.9	1.5	1.3	1.4
40%	1.0	1.0	1.2	1.7	2.3	2.3	1.0	0.9	0.9	1.5	1.2	1.2
50%	1.0	0.9	1.1	1.6	1.6	2.1	1.0	0.8	0.8	1.5	1.2	1.1
60%	0.9	0.8	1.0	1.3	1.0	1.6	0.9	0.7	0.8	1.4	1.2	1.1
70%	0.9	0.7	0.9	1.1	1.0	1.2	0.9	0.7	0.8	1.2	1.1	1.1
80%	0.9	0.7	0.8	0.9	0.9	0.8	0.8	0.7	0.7	1.1	1.0	1.0
90%	0.8	0.6	0.7	0.7	0.8	0.8	0.6	0.5	0.7	1.0	1.0	1.0
Long Term												
Full Simulation Period[a]	1.0	1.3	1.9	2.4	2.8	2.8	1.6	1.0	0.9	1.4	1.2	1.4
Water Year Types[b]												
Wet (31%)	1.2	2.4	4.7	4.2	5.7	5.4	3.4	1.6	1.4	1.6	1.4	2.1
Above Normal (25%)	0.9	0.8	1.3	5.2	5.3	4.3	1.7	1.0	0.9	1.5	1.3	1.4
Below Normal (6%)	1.1	1.0	0.8	1.8	2.3	2.0	1.0	0.8	0.9	1.1	1.1	1.1
Dry (13%)	0.9	1.0	1.0	1.1	1.2	1.9	1.0	0.9	0.9	1.4	1.2	1.0
Critical (25%)	0.9	0.8	0.9	1.1	0.9	1.0	0.8	0.6	0.7	1.2	1.1	1.0

Alternative 1A,1B,1C (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.8	2.1	4.2	4.2	5.5	4.7	3.1	1.6	1.6	2.0	1.7	1.7
20%	1.6	1.7	1.6	3.7	4.6	3.8	1.6	1.4	1.5	1.8	1.7	1.7
30%	1.6	1.5	1.6	2.7	2.7	2.9	1.5	1.3	1.4	1.8	1.7	1.6
40%	1.5	1.4	1.6	1.9	2.0	1.9	1.4	1.3	1.4	1.8	1.6	1.6
50%	1.5	1.3	1.5	1.7	1.7	1.9	1.4	1.3	1.4	1.7	1.5	1.5
60%	1.5	1.2	1.4	1.5	1.4	1.7	1.3	1.2	1.3	1.6	1.5	1.5
70%	1.4	1.2	1.3	1.3	1.4	1.5	1.2	1.2	1.3	1.5	1.5	1.5
80%	1.4	1.1	1.2	1.2	1.3	1.2	1.2	1.2	1.3	1.5	1.4	1.4
90%	1.3	1.1	1.1	1.1	1.3	1.2	1.1	1.0	1.2	1.4	1.4	1.4
Long Term												
Full Simulation Period[a]	1.5	1.5	2.0	2.3	2.6	2.5	1.7	1.3	1.4	1.7	1.6	1.6
Water Year Types[b]												
Wet (31%)	1.5	2.4	4.0	3.4	4.7	4.6	3.0	1.7	1.7	1.9	1.6	1.7
Above Normal (25%)	1.5	1.2	1.6	4.1	4.3	3.5	1.7	1.3	1.3	1.6	1.5	1.4
Below Normal (6%)	1.9	1.2	1.2	1.9	2.0	1.9	1.4	1.2	1.4	1.4	1.4	1.4
Dry (13%)	1.4	1.2	1.4	1.4	1.4	1.8	1.3	1.3	1.4	1.7	1.7	1.5
Critical (25%)	1.6	1.3	1.3	1.3	1.3	1.3	1.2	1.1	1.2	1.6	1.6	1.6

Alternative 1A,1B,1C (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.6	-0.2	-1.1	-1.3	-1.1	-1.1	-0.7	0.0	0.5	0.4	0.3	-0.5
20%	0.5	0.1	0.2	-1.1	-1.2	-1.1	0.1	0.4	0.5	0.3	0.4	0.0
30%	0.5	0.4	0.3	-0.2	-0.7	-0.7	0.3	0.4	0.5	0.3	0.4	0.2
40%	0.5	0.4	0.3	0.1	-0.3	-0.4	0.4	0.4	0.5	0.3	0.4	0.4
50%	0.6	0.3	0.4	0.0	0.1	-0.2	0.4	0.4	0.5	0.2	0.3	0.4
60%	0.5	0.4	0.4	0.2	0.4	0.0	0.4	0.5	0.5	0.2	0.3	0.4
70%	0.5	0.4	0.4	0.2	0.4	0.2	0.4	0.5	0.5	0.3	0.4	0.4
80%	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.5	0.5	0.3	0.4	0.4
90%	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.4	0.4	0.4
Long Term												
Full Simulation Period[a]	0.5	0.2	0.1	-0.2	-0.2	-0.3	0.1	0.3	0.5	0.3	0.4	0.2
Water Year Types[b]												
Wet (31%)	0.3	0.0	-0.8	-0.8	-1.0	-0.9	-0.4	0.0	0.3	0.3	0.2	-0.4
Above Normal (25%)	0.6	0.3	0.3	-1.1	-0.9	-0.8	-0.1	0.3	0.4	0.1	0.2	0.0
Below Normal (6%)	0.7	0.2	0.4	0.1	-0.3	-0.1	0.3	0.4	0.4	0.3	0.2	0.3
Dry (13%)	0.4	0.3	0.4	0.4	0.2	0.0	0.4	0.4	0.5	0.3	0.5	0.5
Critical (25%)	0.6	0.4	0.4	0.2	0.4	0.3	0.4	0.5	0.5	0.4	0.5	0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-26-2-15. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.2	2.3	5.3	5.4	6.7	5.8	3.8	1.5	1.1	1.6	1.4	2.2
20%	1.1	1.6	1.4	4.8	5.8	5.0	1.5	1.0	0.9	1.6	1.3	1.7
30%	1.1	1.1	1.3	3.0	3.4	3.5	1.2	1.0	0.9	1.5	1.3	1.4
40%	1.0	1.0	1.2	1.7	2.3	2.3	1.0	0.9	0.9	1.5	1.2	1.2
50%	1.0	0.9	1.1	1.6	1.6	2.1	1.0	0.8	0.8	1.5	1.2	1.1
60%	0.9	0.8	1.0	1.3	1.0	1.6	0.9	0.7	0.8	1.4	1.2	1.1
70%	0.9	0.7	0.9	1.1	1.0	1.2	0.9	0.7	0.8	1.2	1.1	1.1
80%	0.9	0.7	0.8	0.9	0.9	0.8	0.8	0.7	0.7	1.1	1.0	1.0
90%	0.8	0.6	0.7	0.7	0.8	0.8	0.6	0.5	0.7	1.0	1.0	1.0
Long Term												
Full Simulation Period[a]	1.0	1.3	1.9	2.4	2.8	2.8	1.6	1.0	0.9	1.4	1.2	1.4
Water Year Types[b]												
Wet (31%)	1.2	2.4	4.7	4.2	5.7	5.4	3.4	1.6	1.4	1.6	1.4	2.1
Above Normal (25%)	0.9	0.8	1.3	5.2	5.3	4.3	1.7	1.0	0.9	1.5	1.3	1.4
Below Normal (6%)	1.1	1.0	0.8	1.8	2.3	2.0	1.0	0.8	0.9	1.1	1.1	1.1
Dry (13%)	0.9	1.0	1.0	1.1	1.2	1.9	1.0	0.9	0.9	1.4	1.2	1.0
Critical (25%)	0.9	0.8	0.9	1.1	0.9	1.0	0.8	0.6	0.7	1.2	1.1	1.0

Alternative 2A,2B,2C (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.6	2.0	4.2	4.2	5.5	4.7	3.1	1.6	1.6	2.0	1.7	2.1
20%	1.6	1.7	1.6	3.7	4.6	3.9	1.6	1.4	1.4	1.9	1.7	1.8
30%	1.5	1.4	1.6	2.7	2.7	2.7	1.4	1.3	1.4	1.9	1.7	1.7
40%	1.5	1.4	1.5	1.7	2.0	2.0	1.4	1.3	1.4	1.7	1.6	1.6
50%	1.4	1.3	1.5	1.7	1.7	1.9	1.4	1.3	1.3	1.7	1.6	1.6
60%	1.3	1.3	1.4	1.6	1.4	1.7	1.3	1.2	1.3	1.7	1.5	1.6
70%	1.3	1.2	1.3	1.4	1.3	1.5	1.2	1.2	1.3	1.6	1.5	1.6
80%	1.3	1.2	1.2	1.2	1.3	1.2	1.2	1.1	1.3	1.5	1.5	1.5
90%	1.2	1.1	1.1	1.2	1.2	1.2	1.1	1.0	1.2	1.4	1.5	1.5
Long Term												
Full Simulation Period[a]	1.4	1.5	2.0	2.3	2.6	2.5	1.7	1.3	1.4	1.7	1.6	1.7
Water Year Types[b]												
Wet (31%)	1.5	2.2	3.9	3.4	4.8	4.5	3.0	1.7	1.6	1.9	1.6	2.1
Above Normal (25%)	1.5	1.2	1.6	4.0	4.3	3.5	1.6	1.4	1.3	1.8	1.6	1.6
Below Normal (6%)	1.4	1.3	1.2	1.9	2.0	1.8	1.4	1.2	1.3	1.3	1.4	1.5
Dry (13%)	1.3	1.3	1.4	1.3	1.4	1.7	1.3	1.3	1.4	1.7	1.6	1.6
Critical (25%)	1.4	1.3	1.3	1.4	1.3	1.3	1.2	1.1	1.3	1.6	1.6	1.6

Alternative 2A,2B,2C (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.4	**-0.2**	**-1.2**	**-1.3**	**-1.2**	**-1.1**	**-0.7**	0.0	0.4	0.4	0.3	**-0.1**
20%	0.5	0.2	0.2	**-1.1**	**-1.2**	**-1.1**	0.1	0.4	0.5	0.4	0.4	0.2
30%	0.5	0.3	0.2	**-0.3**	**-0.7**	**-0.8**	0.2	0.4	0.5	0.3	0.4	0.3
40%	0.4	0.4	0.3	**-0.1**	**-0.3**	**-0.4**	0.4	0.4	0.5	0.3	0.4	0.4
50%	0.5	0.4	0.4	0.0	0.1	**-0.2**	0.4	0.4	0.5	0.2	0.4	0.5
60%	0.4	0.4	0.4	0.3	0.3	0.0	0.4	0.5	0.5	0.3	0.4	0.5
70%	0.4	0.4	0.5	0.3	0.3	0.2	0.4	0.5	0.5	0.3	0.4	0.5
80%	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.5	0.5
90%	0.4	0.5	0.4	0.5	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.5
Long Term												
Full Simulation Period[a]	0.4	0.2	0.1	**-0.2**	**-0.2**	**-0.3**	0.1	0.3	0.4	0.3	0.4	0.3
Water Year Types[b]												
Wet (31%)	0.3	**-0.2**	**-0.8**	**-0.7**	**-1.0**	**-0.9**	**-0.4**	0.0	0.2	0.3	0.3	**0.0**
Above Normal (25%)	0.6	0.4	0.3	**-1.2**	**-1.0**	**-0.8**	**-0.1**	0.3	0.4	0.3	0.3	0.2
Below Normal (6%)	0.3	0.3	0.4	0.1	**-0.3**	**-0.2**	0.4	0.4	0.4	0.2	0.3	0.4
Dry (13%)	0.4	0.3	0.4	0.3	0.2	**-0.2**	0.4	0.4	0.5	0.3	0.4	0.5
Critical (25%)	0.5	0.5	0.4	0.3	0.4	0.3	0.4	0.5	0.5	0.4	0.5	0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-26-2-16. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.2	2.3	5.3	5.4	6.7	5.8	3.8	1.5	1.1	1.6	1.4	2.2
20%	1.1	1.6	1.4	4.8	5.8	5.0	1.5	1.0	0.9	1.6	1.3	1.7
30%	1.1	1.1	1.3	3.0	3.4	3.5	1.2	1.0	0.9	1.5	1.3	1.4
40%	1.0	1.0	1.2	1.7	2.3	2.3	1.0	0.9	0.9	1.5	1.2	1.2
50%	1.0	0.9	1.1	1.6	1.6	2.1	1.0	0.8	0.8	1.5	1.2	1.1
60%	0.9	0.8	1.0	1.3	1.0	1.6	0.9	0.7	0.8	1.4	1.2	1.1
70%	0.9	0.7	0.9	1.1	1.0	1.2	0.9	0.7	0.8	1.2	1.1	1.1
80%	0.9	0.7	0.8	0.9	0.9	0.8	0.8	0.7	0.7	1.1	1.0	1.0
90%	0.8	0.6	0.7	0.7	0.8	0.8	0.6	0.5	0.7	1.0	1.0	1.0
Long Term												
Full Simulation Period[a]	1.0	1.3	1.9	2.4	2.8	2.8	1.6	1.0	0.9	1.4	1.2	1.4
Water Year Types[b]												
Wet (31%)	1.2	2.4	4.7	4.2	5.7	5.4	3.4	1.6	1.4	1.6	1.4	2.1
Above Normal (25%)	0.9	0.8	1.3	5.2	5.3	4.3	1.7	1.0	0.9	1.5	1.3	1.4
Below Normal (6%)	1.1	1.0	0.8	1.8	2.3	2.0	1.0	0.8	0.9	1.1	1.1	1.1
Dry (13%)	0.9	1.0	1.0	1.1	1.2	1.9	1.0	0.9	0.9	1.4	1.2	1.0
Critical (25%)	0.9	0.8	0.9	1.1	0.9	1.0	0.8	0.6	0.7	1.2	1.1	1.0

Alternative 3 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.8	2.3	4.7	4.5	5.8	5.0	3.3	1.7	1.7	1.9	1.7	1.8
20%	1.7	1.7	1.7	4.1	4.8	4.1	1.5	1.4	1.4	1.9	1.7	1.7
30%	1.7	1.4	1.6	2.7	2.9	2.9	1.5	1.4	1.4	1.8	1.7	1.6
40%	1.5	1.3	1.5	1.9	2.1	2.0	1.4	1.3	1.3	1.8	1.6	1.6
50%	1.5	1.3	1.5	1.7	1.7	1.9	1.3	1.2	1.3	1.6	1.6	1.5
60%	1.4	1.2	1.4	1.5	1.4	1.7	1.3	1.2	1.3	1.6	1.5	1.5
70%	1.4	1.2	1.3	1.4	1.4	1.5	1.2	1.1	1.3	1.6	1.5	1.5
80%	1.3	1.2	1.2	1.3	1.3	1.2	1.2	1.1	1.3	1.4	1.5	1.5
90%	1.3	1.1	1.1	1.2	1.2	1.2	1.1	1.0	1.3	1.4	1.5	1.4
Long Term												
Full Simulation Period[a]	1.5	1.6	2.1	2.3	2.7	2.6	1.8	1.3	1.4	1.7	1.6	1.6
Water Year Types[b]												
Wet (31%)	1.6	2.5	4.3	3.5	5.0	4.7	3.2	1.8	1.7	1.8	1.7	1.8
Above Normal (25%)	1.6	1.2	1.6	4.4	4.6	3.6	1.7	1.3	1.4	1.6	1.6	1.5
Below Normal (6%)	1.7	1.3	1.2	1.9	2.1	1.9	1.3	1.2	1.3	1.4	1.4	1.4
Dry (13%)	1.4	1.3	1.4	1.4	1.4	1.9	1.3	1.3	1.4	1.7	1.6	1.5
Critical (25%)	1.6	1.3	1.3	1.4	1.3	1.3	1.2	1.1	1.2	1.5	1.6	1.6

Alternative 3 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.6	0.1	**-0.6**	**-0.9**	**-0.8**	**-0.9**	**-0.5**	0.1	0.5	0.3	0.3	**-0.4**
20%	0.6	0.2	0.3	**-0.7**	**-1.0**	**-0.8**	0.1	0.4	0.5	0.3	0.4	0.0
30%	0.7	0.3	0.3	**-0.3**	**-0.5**	**-0.6**	0.3	0.4	0.5	0.3	0.4	0.2
40%	0.5	0.3	0.3	0.2	**-0.2**	**-0.3**	0.3	0.4	0.5	0.3	0.4	0.4
50%	0.5	0.3	0.4	0.0	0.1	**-0.2**	0.4	0.4	0.5	0.2	0.4	0.4
60%	0.5	0.4	0.4	0.2	0.4	0.1	0.4	0.4	0.5	0.2	0.4	0.4
70%	0.5	0.5	0.5	0.2	0.4	0.3	0.4	0.5	0.5	0.3	0.4	0.4
80%	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.3	0.5	0.5
90%	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.5
Long Term												
Full Simulation Period[a]	0.5	0.3	0.2	**-0.1**	**-0.1**	**-0.2**	0.2	0.3	0.5	0.3	0.4	0.3
Water Year Types[b]												
Wet (31%)	0.3	0.1	**-0.5**	**-0.6**	**-0.8**	**-0.7**	**-0.3**	0.1	0.4	0.3	0.3	**-0.2**
Above Normal (25%)	0.7	0.4	0.3	**-0.8**	**-0.7**	**-0.7**	0.0	0.3	0.5	0.1	0.3	0.1
Below Normal (6%)	0.6	0.3	0.4	0.1	**-0.2**	**-0.1**	0.3	0.4	0.4	0.3	0.3	0.3
Dry (13%)	0.4	0.3	0.4	0.4	0.2	0.0	0.4	0.5	0.5	0.3	0.4	0.5
Critical (25%)	0.7	0.4	0.4	0.2	0.4	0.3	0.4	0.5	0.5	0.4	0.5	0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-26-2-17. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.2	2.3	5.3	5.4	6.7	5.8	3.8	1.5	1.1	1.6	1.4	2.2
20%	1.1	1.6	1.4	4.8	5.8	5.0	1.5	1.0	0.9	1.6	1.3	1.7
30%	1.1	1.1	1.3	3.0	3.4	3.5	1.2	1.0	0.9	1.5	1.3	1.4
40%	1.0	1.0	1.2	1.7	2.3	2.3	1.0	0.9	0.9	1.5	1.2	1.2
50%	1.0	0.9	1.1	1.6	1.6	2.1	1.0	0.8	0.8	1.5	1.2	1.1
60%	0.9	0.8	1.0	1.3	1.0	1.6	0.9	0.7	0.8	1.4	1.2	1.1
70%	0.9	0.7	0.9	1.1	1.0	1.2	0.9	0.7	0.8	1.2	1.1	1.1
80%	0.9	0.7	0.8	0.9	0.9	0.8	0.8	0.7	0.7	1.1	1.0	1.0
90%	0.8	0.6	0.7	0.7	0.8	0.8	0.6	0.5	0.7	1.0	1.0	1.0
Long Term												
Full Simulation Period[a]	1.0	1.3	1.9	2.4	2.8	2.8	1.6	1.0	0.9	1.4	1.2	1.4
Water Year Types[b]												
Wet (31%)	1.2	2.4	4.7	4.2	5.7	5.4	3.4	1.6	1.4	1.6	1.4	2.1
Above Normal (25%)	0.9	0.8	1.3	5.2	5.3	4.3	1.7	1.0	0.9	1.5	1.3	1.4
Below Normal (6%)	1.1	1.0	0.8	1.8	2.3	2.0	1.0	0.8	0.9	1.1	1.1	1.1
Dry (13%)	0.9	1.0	1.0	1.1	1.2	1.9	1.0	0.9	0.9	1.4	1.2	1.0
Critical (25%)	0.9	0.8	0.9	1.1	0.9	1.0	0.8	0.6	0.7	1.2	1.1	1.0

Alternative 4 H1 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.6	2.3	4.5	4.3	5.7	4.7	3.1	1.6	1.6	2.0	1.7	1.7
20%	1.6	1.7	1.7	3.8	4.6	4.0	1.6	1.4	1.5	1.9	1.7	1.7
30%	1.6	1.4	1.6	2.6	2.8	2.9	1.4	1.4	1.4	1.9	1.7	1.7
40%	1.4	1.3	1.6	1.8	1.9	2.0	1.4	1.3	1.4	1.8	1.7	1.6
50%	1.4	1.3	1.5	1.7	1.7	1.8	1.3	1.2	1.3	1.7	1.6	1.6
60%	1.3	1.2	1.4	1.7	1.4	1.7	1.3	1.2	1.3	1.6	1.6	1.5
70%	1.3	1.2	1.4	1.5	1.4	1.4	1.2	1.2	1.3	1.6	1.5	1.5
80%	1.3	1.1	1.2	1.4	1.3	1.2	1.1	1.1	1.3	1.5	1.5	1.5
90%	1.3	1.1	1.1	1.2	1.2	1.2	1.1	1.0	1.2	1.4	1.4	1.4
Long Term												
Full Simulation Period[a]	1.4	1.5	2.1	2.3	2.7	2.6	1.7	1.3	1.4	1.7	1.6	1.6
Water Year Types[b]												
Wet (31%)	1.5	2.4	4.1	3.4	4.8	4.6	3.0	1.7	1.7	1.9	1.6	1.8
Above Normal (25%)	1.5	1.2	1.6	4.3	4.5	3.5	1.6	1.3	1.3	1.8	1.6	1.4
Below Normal (6%)	1.6	1.3	1.2	1.9	2.0	1.9	1.4	1.2	1.3	1.3	1.4	1.4
Dry (13%)	1.3	1.3	1.4	1.4	1.4	1.8	1.3	1.3	1.4	1.7	1.7	1.6
Critical (25%)	1.4	1.3	1.3	1.5	1.3	1.3	1.1	1.1	1.3	1.5	1.6	1.6

Alternative 4 H1 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.4	0.0	**-0.9**	**-1.1**	**-0.9**	**-1.1**	**-0.7**	0.1	0.4	0.4	0.3	**-0.5**
20%	0.5	0.2	0.3	**-0.9**	**-1.2**	**-1.0**	0.1	0.3	0.5	0.4	0.4	0.1
30%	0.5	0.3	0.3	**-0.4**	**-0.6**	**-0.6**	0.2	0.4	0.4	0.4	0.4	0.3
40%	0.4	0.3	0.3	0.0	**-0.4**	**-0.3**	0.3	0.4	0.5	0.3	0.4	0.4
50%	0.4	0.3	0.4	0.1	0.1	**-0.3**	0.4	0.4	0.5	0.2	0.4	0.5
60%	0.4	0.4	0.4	0.3	0.4	0.0	0.4	0.5	0.5	0.2	0.4	0.4
70%	0.4	0.4	0.5	0.3	0.4	0.2	0.4	0.5	0.5	0.3	0.4	0.4
80%	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.5	0.5	0.4	0.5	0.4
90%	0.5	0.5	0.4	0.5	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.5
Long Term												
Full Simulation Period[a]	0.4	0.3	0.1	**-0.1**	**-0.2**	**-0.2**	0.1	0.3	0.4	0.3	0.4	0.3
Water Year Types[b]												
Wet (31%)	0.3	**0.0**	**-0.6**	**-0.7**	**-0.9**	**-0.9**	**-0.4**	0.1	0.3	0.3	0.3	**-0.3**
Above Normal (25%)	0.5	0.4	0.3	**-0.9**	**-0.8**	**-0.8**	**-0.1**	0.3	0.4	0.3	0.3	0.0
Below Normal (6%)	0.5	0.3	0.4	0.1	**-0.3**	**-0.1**	0.3	0.4	0.4	0.2	0.2	0.3
Dry (13%)	0.4	0.3	0.4	0.3	0.2	**0.0**	0.3	0.4	0.5	0.3	0.5	0.6
Critical (25%)	0.5	0.4	0.5	0.3	0.4	0.3	0.4	0.5	0.5	0.4	0.5	0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-26-2-18. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.2	2.3	5.3	5.4	6.7	5.8	3.8	1.5	1.1	1.6	1.4	2.2
20%	1.1	1.6	1.4	4.8	5.8	5.0	1.5	1.0	0.9	1.6	1.3	1.7
30%	1.1	1.1	1.3	3.0	3.4	3.5	1.2	1.0	0.9	1.5	1.3	1.4
40%	1.0	1.0	1.2	1.7	2.3	2.3	1.0	0.9	0.9	1.5	1.2	1.2
50%	1.0	0.9	1.1	1.6	1.6	2.1	1.0	0.8	0.8	1.5	1.2	1.1
60%	0.9	0.8	1.0	1.3	1.0	1.6	0.9	0.7	0.8	1.4	1.2	1.1
70%	0.9	0.7	0.9	1.1	1.0	1.2	0.9	0.7	0.8	1.2	1.1	1.1
80%	0.9	0.7	0.8	0.9	0.9	0.8	0.8	0.7	0.7	1.1	1.0	1.0
90%	0.8	0.6	0.7	0.7	0.8	0.8	0.6	0.5	0.7	1.0	1.0	1.0
Long Term												
Full Simulation Period[a]	1.0	1.3	1.9	2.4	2.8	2.8	1.6	1.0	0.9	1.4	1.2	1.4
Water Year Types[b]												
Wet (31%)	1.2	2.4	4.7	4.2	5.7	5.4	3.4	1.6	1.4	1.6	1.4	2.1
Above Normal (25%)	0.9	0.8	1.3	5.2	5.3	4.3	1.7	1.0	0.9	1.5	1.3	1.4
Below Normal (6%)	1.1	1.0	0.8	1.8	2.3	2.0	1.0	0.8	0.9	1.1	1.1	1.1
Dry (13%)	0.9	1.0	1.0	1.1	1.2	1.9	1.0	0.9	0.9	1.4	1.2	1.0
Critical (25%)	0.9	0.8	0.9	1.1	0.9	1.0	0.8	0.6	0.7	1.2	1.1	1.0

Alternative 4 H2 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	2.3	4.5	4.3	5.8	4.8	3.1	1.7	1.5	1.9	1.7	1.8
20%	1.6	1.8	1.7	3.8	4.6	4.0	1.9	1.5	1.4	1.8	1.7	1.7
30%	1.5	1.4	1.6	2.6	2.9	3.0	1.7	1.4	1.4	1.7	1.7	1.6
40%	1.4	1.3	1.6	1.7	1.9	2.0	1.5	1.3	1.4	1.7	1.6	1.6
50%	1.4	1.3	1.4	1.6	1.7	1.9	1.4	1.3	1.3	1.6	1.6	1.6
60%	1.4	1.2	1.4	1.6	1.4	1.7	1.3	1.2	1.3	1.6	1.5	1.5
70%	1.3	1.2	1.3	1.4	1.3	1.5	1.2	1.2	1.3	1.5	1.5	1.5
80%	1.3	1.1	1.1	1.4	1.3	1.2	1.2	1.1	1.3	1.4	1.5	1.5
90%	1.3	1.1	1.1	1.2	1.2	1.2	1.0	1.0	1.2	1.3	1.4	1.4
Long Term												
Full Simulation Period[a]	1.4	1.5	2.1	2.3	2.7	2.6	1.8	1.4	1.4	1.6	1.6	1.6
Water Year Types[b]												
Wet (31%)	1.5	2.4	4.1	3.4	4.8	4.6	3.2	1.8	1.6	1.8	1.6	1.8
Above Normal (25%)	1.5	1.2	1.6	4.4	4.5	3.5	2.0	1.5	1.3	1.5	1.5	1.4
Below Normal (6%)	1.4	1.3	1.1	1.9	2.1	1.9	1.4	1.2	1.3	1.3	1.4	1.4
Dry (13%)	1.3	1.3	1.4	1.3	1.4	1.9	1.3	1.3	1.4	1.7	1.6	1.5
Critical (25%)	1.5	1.3	1.3	1.5	1.3	1.3	1.1	1.1	1.2	1.6	1.6	1.6

Alternative 4 H2 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.5	0.1	**-0.8**	**-1.1**	**-0.9**	**-1.1**	**-0.6**	0.2	0.4	0.3	0.3	**-0.4**
20%	0.6	0.2	0.3	**-1.0**	**-1.2**	**-1.0**	0.5	0.4	0.5	0.2	0.4	0.0
30%	0.5	0.3	0.3	**-0.4**	**-0.6**	**-0.5**	0.4	0.4	0.5	0.2	0.4	0.2
40%	0.4	0.2	0.4	**0.0**	**-0.4**	**-0.3**	0.5	0.5	0.5	0.2	0.4	0.4
50%	0.4	0.3	0.4	0.0	0.1	**-0.2**	0.4	0.5	0.5	0.1	0.3	0.5
60%	0.4	0.4	0.4	0.3	0.4	0.0	0.5	0.5	0.5	0.2	0.4	0.4
70%	0.4	0.4	0.4	0.3	0.3	0.2	0.4	0.5	0.5	0.3	0.4	0.4
80%	0.4	0.4	0.3	0.5	0.4	0.4	0.4	0.4	0.5	0.3	0.5	0.4
90%	0.4	0.5	0.4	0.5	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.5
Long Term												
Full Simulation Period[a]	0.4	0.3	0.1	**-0.1**	**-0.2**	**-0.2**	0.2	0.4	0.4	0.2	0.4	0.2
Water Year Types[b]												
Wet (31%)	0.3	0.0	**-0.6**	**-0.7**	**-0.9**	**-0.9**	**-0.2**	0.1	0.3	0.2	0.3	**-0.3**
Above Normal (25%)	0.6	0.4	0.3	**-0.9**	**-0.8**	**-0.8**	0.3	0.4	0.4	0.0	0.2	0.0
Below Normal (6%)	0.2	0.2	0.3	0.1	**-0.2**	**-0.1**	0.3	0.4	0.4	0.2	0.2	0.3
Dry (13%)	0.4	0.3	0.4	0.3	0.2	0.0	0.3	0.4	0.5	0.3	0.4	0.5
Critical (25%)	0.5	0.4	0.4	0.3	0.4	0.3	0.4	0.5	0.5	0.4	0.5	0.6

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-26-2-19. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.2	2.3	5.3	5.4	6.7	5.8	3.8	1.5	1.1	1.6	1.4	2.2
20%	1.1	1.6	1.4	4.8	5.8	5.0	1.5	1.0	0.9	1.6	1.3	1.7
30%	1.1	1.1	1.3	3.0	3.4	3.5	1.2	1.0	0.9	1.5	1.3	1.4
40%	1.0	1.0	1.2	1.7	2.3	2.3	1.0	0.9	0.9	1.5	1.2	1.2
50%	1.0	0.9	1.1	1.6	1.6	2.1	1.0	0.8	0.8	1.5	1.2	1.1
60%	0.9	0.8	1.0	1.3	1.0	1.6	0.9	0.7	0.8	1.4	1.2	1.1
70%	0.9	0.7	0.9	1.1	1.0	1.2	0.9	0.7	0.8	1.2	1.1	1.1
80%	0.9	0.7	0.8	0.9	0.9	0.8	0.8	0.7	0.7	1.1	1.0	1.0
90%	0.8	0.6	0.7	0.7	0.8	0.8	0.6	0.5	0.7	1.0	1.0	1.0
Long Term												
Full Simulation Period[a]	1.0	1.3	1.9	2.4	2.8	2.8	1.6	1.0	0.9	1.4	1.2	1.4
Water Year Types[b]												
Wet (31%)	1.2	2.4	4.7	4.2	5.7	5.4	3.4	1.6	1.4	1.6	1.4	2.1
Above Normal (25%)	0.9	0.8	1.3	5.2	5.3	4.3	1.7	1.0	0.9	1.5	1.3	1.4
Below Normal (6%)	1.1	1.0	0.8	1.8	2.3	2.0	1.0	0.8	0.9	1.1	1.1	1.1
Dry (13%)	0.9	1.0	1.0	1.1	1.2	1.9	1.0	0.9	0.9	1.4	1.2	1.0
Critical (25%)	0.9	0.8	0.9	1.1	0.9	1.0	0.8	0.6	0.7	1.2	1.1	1.0

Alternative 4 H3 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	2.3	4.4	4.3	5.6	4.7	3.1	1.6	1.6	2.0	1.7	2.1
20%	1.5	1.7	1.6	3.8	4.6	4.0	1.6	1.4	1.5	1.9	1.7	1.9
30%	1.5	1.4	1.6	2.6	2.8	2.7	1.4	1.3	1.4	1.9	1.7	1.7
40%	1.4	1.4	1.5	1.8	1.9	2.0	1.3	1.3	1.4	1.8	1.6	1.6
50%	1.4	1.3	1.5	1.7	1.7	1.8	1.3	1.2	1.3	1.7	1.6	1.6
60%	1.4	1.3	1.4	1.7	1.4	1.7	1.3	1.2	1.3	1.6	1.6	1.6
70%	1.3	1.2	1.4	1.4	1.4	1.4	1.2	1.2	1.3	1.6	1.5	1.6
80%	1.3	1.2	1.1	1.3	1.3	1.2	1.1	1.1	1.3	1.5	1.5	1.5
90%	1.3	1.1	1.1	1.2	1.2	1.2	1.1	1.0	1.2	1.4	1.4	1.5
Long Term												
Full Simulation Period[a]	1.4	1.5	2.0	2.3	2.6	2.5	1.7	1.3	1.4	1.7	1.6	1.7
Water Year Types[b]												
Wet (31%)	1.5	2.4	4.1	3.4	4.8	4.5	3.0	1.7	1.7	1.9	1.6	2.1
Above Normal (25%)	1.5	1.2	1.6	4.2	4.3	3.5	1.6	1.3	1.3	1.8	1.6	1.6
Below Normal (6%)	1.4	1.3	1.1	1.9	2.0	1.9	1.4	1.2	1.3	1.3	1.4	1.5
Dry (13%)	1.3	1.3	1.4	1.3	1.4	1.7	1.3	1.3	1.4	1.7	1.6	1.6
Critical (25%)	1.4	1.3	1.3	1.5	1.3	1.3	1.1	1.1	1.2	1.5	1.6	1.6

Alternative 4 H3 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.5	0.0	**-1.0**	**-1.1**	**-1.1**	**-1.1**	**-0.7**	0.1	0.4	0.4	0.3	**-0.1**
20%	0.5	0.2	0.2	**-1.0**	**-1.2**	**-1.0**	0.1	0.3	0.5	0.4	0.4	0.3
30%	0.4	0.3	0.3	**-0.4**	**-0.6**	**-0.8**	0.2	0.4	0.4	0.4	0.4	0.3
40%	0.4	0.4	0.3	0.1	**-0.4**	**-0.3**	0.3	0.4	0.5	0.3	0.4	0.4
50%	0.4	0.4	0.4	0.1	0.1	**-0.3**	0.4	0.4	0.5	0.2	0.4	0.5
60%	0.4	0.4	0.4	0.3	0.4	0.0	0.4	0.5	0.5	0.2	0.4	0.5
70%	0.4	0.5	0.5	0.3	0.4	0.2	0.3	0.5	0.5	0.3	0.4	0.5
80%	0.4	0.5	0.3	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.5	0.5
90%	0.5	0.5	0.4	0.5	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.5
Long Term												
Full Simulation Period[a]	0.4	0.3	0.1	**-0.1**	**-0.2**	**-0.3**	0.1	0.3	0.4	0.3	0.4	0.4
Water Year Types[b]												
Wet (31%)	0.3	**0.0**	**-0.7**	**-0.7**	**-1.0**	**-0.9**	**-0.4**	0.1	0.3	0.3	0.3	0.0
Above Normal (25%)	0.6	0.4	0.3	**-1.0**	**-0.9**	**-0.8**	**-0.1**	0.3	0.4	0.3	0.3	0.2
Below Normal (6%)	0.3	0.3	0.3	0.1	**-0.3**	**-0.1**	0.3	0.4	0.4	0.2	0.2	0.4
Dry (13%)	0.4	0.3	0.4	0.3	0.2	**-0.1**	0.3	0.4	0.5	0.3	0.4	0.5
Critical (25%)	0.5	0.5	0.5	0.3	0.4	0.3	0.4	0.5	0.5	0.4	0.5	0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-26-2-20. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.2	2.3	5.3	5.4	6.7	5.8	3.8	1.5	1.1	1.6	1.4	2.2
20%	1.1	1.6	1.4	4.8	5.8	5.0	1.5	1.0	0.9	1.6	1.3	1.7
30%	1.1	1.1	1.3	3.0	3.4	3.5	1.2	1.0	0.9	1.5	1.3	1.4
40%	1.0	1.0	1.2	1.7	2.3	2.3	1.0	0.9	0.9	1.5	1.2	1.2
50%	1.0	0.9	1.1	1.6	1.6	2.1	1.0	0.8	0.8	1.5	1.2	1.1
60%	0.9	0.8	1.0	1.3	1.0	1.6	0.9	0.7	0.8	1.4	1.2	1.1
70%	0.9	0.7	0.9	1.1	1.0	1.2	0.9	0.7	0.8	1.2	1.1	1.1
80%	0.9	0.7	0.8	0.9	0.9	0.8	0.8	0.7	0.7	1.1	1.0	1.0
90%	0.8	0.6	0.7	0.7	0.8	0.8	0.6	0.5	0.7	1.0	1.0	1.0
Long Term												
Full Simulation Period[a]	1.0	1.3	1.9	2.4	2.8	2.8	1.6	1.0	0.9	1.4	1.2	1.4
Water Year Types[b]												
Wet (31%)	1.2	2.4	4.7	4.2	5.7	5.4	3.4	1.6	1.4	1.6	1.4	2.1
Above Normal (25%)	0.9	0.8	1.3	5.2	5.3	4.3	1.7	1.0	0.9	1.5	1.3	1.4
Below Normal (6%)	1.1	1.0	0.8	1.8	2.3	2.0	1.0	0.8	0.9	1.1	1.1	1.1
Dry (13%)	0.9	1.0	1.0	1.1	1.2	1.9	1.0	0.9	0.9	1.4	1.2	1.0
Critical (25%)	0.9	0.8	0.9	1.1	0.9	1.0	0.8	0.6	0.7	1.2	1.1	1.0

Alternative 4 H4 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	2.2	4.4	4.3	5.6	4.8	3.1	1.7	1.5	1.9	1.7	2.1
20%	1.5	1.7	1.6	3.8	4.6	4.0	1.9	1.5	1.4	1.8	1.7	1.9
30%	1.5	1.4	1.6	2.6	2.9	2.9	1.7	1.4	1.4	1.7	1.7	1.7
40%	1.5	1.4	1.6	1.7	1.9	2.0	1.5	1.3	1.4	1.6	1.6	1.6
50%	1.5	1.3	1.4	1.6	1.7	1.8	1.4	1.3	1.3	1.6	1.6	1.6
60%	1.4	1.3	1.4	1.5	1.4	1.7	1.3	1.2	1.3	1.6	1.5	1.6
70%	1.4	1.2	1.3	1.4	1.3	1.4	1.3	1.2	1.3	1.5	1.5	1.6
80%	1.3	1.2	1.2	1.3	1.3	1.2	1.2	1.1	1.3	1.4	1.5	1.5
90%	1.3	1.1	1.1	1.1	1.2	1.2	1.0	1.0	1.2	1.3	1.4	1.5
Long Term												
Full Simulation Period[a]	1.5	1.5	2.0	2.3	2.6	2.5	1.8	1.4	1.4	1.6	1.6	1.7
Water Year Types[b]												
Wet (31%)	1.6	2.3	4.1	3.4	4.8	4.5	3.2	1.8	1.6	1.8	1.6	2.1
Above Normal (25%)	1.5	1.2	1.6	4.3	4.4	3.5	2.0	1.5	1.3	1.5	1.5	1.6
Below Normal (6%)	1.5	1.3	1.2	1.9	2.1	1.9	1.4	1.2	1.3	1.3	1.4	1.4
Dry (13%)	1.3	1.3	1.4	1.3	1.4	1.8	1.3	1.3	1.4	1.6	1.6	1.6
Critical (25%)	1.4	1.3	1.3	1.3	1.3	1.3	1.1	1.1	1.2	1.6	1.6	1.6

Alternative 4 H4 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.5	-0.1	-0.9	-1.1	-1.1	-1.1	-0.6	0.1	0.4	0.3	0.3	-0.1
20%	0.5	0.2	0.2	-0.9	-1.2	-1.0	0.5	0.4	0.5	0.2	0.4	0.3
30%	0.4	0.3	0.3	-0.4	-0.6	-0.6	0.4	0.4	0.5	0.2	0.4	0.3
40%	0.5	0.4	0.3	0.0	-0.4	-0.3	0.5	0.5	0.5	0.1	0.4	0.4
50%	0.5	0.4	0.4	0.0	0.1	-0.3	0.4	0.5	0.5	0.1	0.4	0.5
60%	0.4	0.4	0.4	0.1	0.4	0.0	0.4	0.5	0.5	0.1	0.4	0.5
70%	0.4	0.5	0.5	0.2	0.3	0.2	0.4	0.5	0.5	0.3	0.4	0.5
80%	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.3	0.5	0.5
90%	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.5
Long Term												
Full Simulation Period[a]	0.4	0.3	0.1	-0.2	-0.2	-0.3	0.2	0.4	0.4	0.2	0.4	0.4
Water Year Types[b]												
Wet (31%)	0.3	-0.1	-0.6	-0.7	-1.0	-0.9	-0.2	0.1	0.3	0.2	0.3	0.0
Above Normal (25%)	0.6	0.4	0.3	-0.9	-0.9	-0.8	0.3	0.4	0.4	0.0	0.2	0.2
Below Normal (6%)	0.3	0.3	0.4	0.1	-0.2	-0.1	0.3	0.4	0.4	0.2	0.3	0.3
Dry (13%)	0.4	0.3	0.4	0.3	0.2	0.0	0.3	0.4	0.5	0.2	0.4	0.5
Critical (25%)	0.5	0.5	0.4	0.2	0.4	0.3	0.4	0.5	0.5	0.4	0.5	0.6

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-26-2-21. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.2	2.3	5.3	5.4	6.7	5.8	3.8	1.5	1.1	1.6	1.4	2.2
20%	1.1	1.6	1.4	4.8	5.8	5.0	1.5	1.0	0.9	1.6	1.3	1.7
30%	1.1	1.1	1.3	3.0	3.4	3.5	1.2	1.0	0.9	1.5	1.3	1.4
40%	1.0	1.0	1.2	1.7	2.3	2.3	1.0	0.9	0.9	1.5	1.2	1.2
50%	1.0	0.9	1.1	1.6	1.6	2.1	1.0	0.8	0.8	1.5	1.2	1.1
60%	0.9	0.8	1.0	1.3	1.0	1.6	0.9	0.7	0.8	1.4	1.2	1.1
70%	0.9	0.7	0.9	1.1	1.0	1.2	0.9	0.7	0.8	1.2	1.1	1.1
80%	0.9	0.7	0.8	0.9	0.9	0.8	0.8	0.7	0.7	1.1	1.0	1.0
90%	0.8	0.6	0.7	0.7	0.8	0.8	0.6	0.5	0.7	1.0	1.0	1.0
Long Term												
Full Simulation Period[a]	1.0	1.3	1.9	2.4	2.8	2.8	1.6	1.0	0.9	1.4	1.2	1.4
Water Year Types[b]												
Wet (31%)	1.2	2.4	4.7	4.2	5.7	5.4	3.4	1.6	1.4	1.6	1.4	2.1
Above Normal (25%)	0.9	0.8	1.3	5.2	5.3	4.3	1.7	1.0	0.9	1.5	1.3	1.4
Below Normal (6%)	1.1	1.0	0.8	1.8	2.3	2.0	1.0	0.8	0.9	1.1	1.1	1.1
Dry (13%)	0.9	1.0	1.0	1.1	1.2	1.9	1.0	0.9	0.9	1.4	1.2	1.0
Critical (25%)	0.9	0.8	0.9	1.1	0.9	1.0	0.8	0.6	0.7	1.2	1.1	1.0

Alternative 5 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	2.4	4.8	4.7	6.0	5.2	3.5	1.7	1.7	2.0	1.8	2.2
20%	1.5	1.8	1.7	4.2	5.1	4.3	1.6	1.4	1.4	1.9	1.7	2.1
30%	1.5	1.4	1.6	2.8	3.1	3.0	1.5	1.3	1.4	1.8	1.7	1.7
40%	1.5	1.4	1.6	1.8	2.2	2.1	1.4	1.3	1.4	1.8	1.7	1.7
50%	1.5	1.4	1.5	1.7	1.7	2.0	1.3	1.2	1.4	1.7	1.6	1.6
60%	1.4	1.3	1.4	1.6	1.4	1.7	1.3	1.2	1.3	1.6	1.6	1.6
70%	1.4	1.3	1.3	1.5	1.4	1.5	1.2	1.1	1.3	1.6	1.5	1.6
80%	1.3	1.2	1.2	1.3	1.3	1.2	1.1	1.1	1.3	1.5	1.5	1.5
90%	1.3	1.2	1.1	1.2	1.2	1.2	1.0	1.0	1.3	1.4	1.5	1.4
Long Term												
Full Simulation Period[a]	1.5	1.6	2.1	2.4	2.8	2.7	1.8	1.4	1.4	1.7	1.6	1.7
Water Year Types[b]												
Wet (31%)	1.6	2.5	4.4	3.7	5.2	4.9	3.3	1.8	1.8	1.9	1.8	2.2
Above Normal (25%)	1.4	1.3	1.6	4.6	4.7	3.7	1.8	1.4	1.4	1.7	1.6	1.7
Below Normal (6%)	1.5	1.3	1.2	1.9	2.2	2.0	1.4	1.2	1.4	1.5	1.5	1.5
Dry (13%)	1.4	1.3	1.4	1.4	1.5	1.9	1.3	1.3	1.4	1.7	1.6	1.5
Critical (25%)	1.5	1.3	1.3	1.4	1.3	1.3	1.2	1.1	1.2	1.6	1.6	1.6

Alternative 5 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.5	0.1	**-0.5**	**-0.7**	**-0.7**	**-0.7**	**-0.3**	0.2	0.5	0.4	0.4	**0.0**
20%	0.4	0.2	0.2	**-0.6**	**-0.8**	**-0.6**	0.1	0.4	0.5	0.3	0.4	0.4
30%	0.5	0.3	0.3	**-0.2**	**-0.4**	**-0.5**	0.2	0.4	0.5	0.3	0.4	0.3
40%	0.5	0.4	0.4	0.1	**-0.1**	**-0.2**	0.3	0.4	0.5	0.3	0.4	0.5
50%	0.5	0.4	0.4	0.1	0.1	**-0.1**	0.4	0.4	0.5	0.2	0.4	0.5
60%	0.4	0.5	0.4	0.3	0.4	0.1	0.4	0.4	0.5	0.2	0.4	0.5
70%	0.5	0.5	0.5	0.3	0.4	0.2	0.4	0.4	0.5	0.4	0.4	0.5
80%	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.5	0.5
90%	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.5
Long Term												
Full Simulation Period[a]	0.5	0.3	0.2	**0.0**	**0.0**	**-0.1**	0.2	0.4	0.5	0.3	0.4	0.4
Water Year Types[b]												
Wet (31%)	0.4	0.1	**-0.4**	**-0.5**	**-0.6**	**-0.6**	**-0.1**	0.2	0.4	0.3	0.4	0.2
Above Normal (25%)	0.5	0.4	0.3	**-0.6**	**-0.6**	**-0.6**	0.0	0.3	0.5	0.2	0.3	0.3
Below Normal (6%)	0.4	0.3	0.4	0.1	**-0.1**	**0.0**	0.3	0.4	0.5	0.4	0.4	0.4
Dry (13%)	0.4	0.4	0.4	0.3	0.2	0.0	0.3	0.4	0.5	0.3	0.4	0.5
Critical (25%)	0.5	0.5	0.5	0.3	0.4	0.3	0.4	0.4	0.5	0.4	0.5	0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-26-2-22. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.2	2.3	5.3	5.4	6.7	5.8	3.8	1.5	1.1	1.6	1.4	2.2
20%	1.1	1.6	1.4	4.8	5.8	5.0	1.5	1.0	0.9	1.6	1.3	1.7
30%	1.1	1.1	1.3	3.0	3.4	3.5	1.2	1.0	0.9	1.5	1.3	1.4
40%	1.0	1.0	1.2	1.7	2.3	2.3	1.0	0.9	0.9	1.5	1.2	1.2
50%	1.0	0.9	1.1	1.6	1.6	2.1	1.0	0.8	0.8	1.5	1.2	1.1
60%	0.9	0.8	1.0	1.3	1.0	1.6	0.9	0.7	0.8	1.4	1.2	1.1
70%	0.9	0.7	0.9	1.1	1.0	1.2	0.9	0.7	0.8	1.2	1.1	1.1
80%	0.9	0.7	0.8	0.9	0.9	0.8	0.8	0.7	0.7	1.1	1.0	1.0
90%	0.8	0.6	0.7	0.7	0.8	0.8	0.6	0.5	0.7	1.0	1.0	1.0
Long Term												
Full Simulation Period[a]	1.0	1.3	1.9	2.4	2.8	2.8	1.6	1.0	0.9	1.4	1.2	1.4
Water Year Types[b]												
Wet (31%)	1.2	2.4	4.7	4.2	5.7	5.4	3.4	1.6	1.4	1.6	1.4	2.1
Above Normal (25%)	0.9	0.8	1.3	5.2	5.3	4.3	1.7	1.0	0.9	1.5	1.3	1.4
Below Normal (6%)	1.1	1.0	0.8	1.8	2.3	2.0	1.0	0.8	0.9	1.1	1.1	1.1
Dry (13%)	0.9	1.0	1.0	1.1	1.2	1.9	1.0	0.9	0.9	1.4	1.2	1.0
Critical (25%)	0.9	0.8	0.9	1.1	0.9	1.0	0.8	0.6	0.7	1.2	1.1	1.0

Alternative 6A,6B,6C (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.5	2.3	4.3	4.0	5.3	4.5	3.0	1.5	1.5	1.7	1.6	1.9
20%	1.4	1.7	1.7	3.6	4.6	3.8	1.6	1.4	1.4	1.5	1.6	1.7
30%	1.4	1.3	1.6	2.7	2.8	2.7	1.4	1.3	1.4	1.4	1.5	1.6
40%	1.3	1.3	1.5	1.7	2.0	2.0	1.4	1.3	1.4	1.4	1.5	1.5
50%	1.3	1.3	1.4	1.7	1.7	1.9	1.3	1.2	1.3	1.3	1.4	1.5
60%	1.3	1.2	1.4	1.5	1.6	1.7	1.3	1.2	1.3	1.3	1.4	1.5
70%	1.3	1.2	1.3	1.4	1.3	1.5	1.2	1.2	1.3	1.3	1.4	1.4
80%	1.2	1.2	1.1	1.2	1.3	1.2	1.2	1.1	1.3	1.3	1.3	1.4
90%	1.2	1.1	1.1	1.1	1.2	1.2	1.1	1.0	1.2	1.3	1.3	1.3
Long Term												
Full Simulation Period[a]	1.3	1.5	2.0	2.2	2.6	2.5	1.7	1.3	1.4	1.4	1.5	1.5
Water Year Types[b]												
Wet (31%)	1.4	2.3	4.0	3.3	4.7	4.4	2.9	1.7	1.6	1.6	1.6	1.9
Above Normal (25%)	1.3	1.2	1.6	4.0	4.1	3.3	1.6	1.4	1.3	1.4	1.4	1.4
Below Normal (6%)	1.4	1.2	1.1	1.9	2.0	1.9	1.4	1.2	1.4	1.2	1.3	1.3
Dry (13%)	1.3	1.3	1.4	1.3	1.4	1.8	1.3	1.3	1.4	1.3	1.4	1.4
Critical (25%)	1.3	1.3	1.3	1.3	1.3	1.3	1.1	1.1	1.2	1.4	1.5	1.5

Alternative 6A,6B,6C (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.3	0.1	**-1.0**	**-1.4**	**-1.4**	**-1.3**	**-0.8**	0.0	0.4	0.1	0.2	**-0.3**
20%	0.3	0.2	0.2	**-1.2**	**-1.2**	**-1.2**	0.2	0.4	0.5	**-0.1**	0.2	**0.0**
30%	0.3	0.2	0.3	**-0.3**	**-0.7**	**-0.8**	0.2	0.4	0.5	**-0.1**	0.3	0.2
40%	0.3	0.3	0.3	**0.0**	**-0.3**	**-0.4**	0.4	0.4	0.5	**-0.1**	0.3	0.3
50%	0.3	0.3	0.4	0.1	0.1	**-0.2**	0.4	0.4	0.5	**-0.1**	0.2	0.3
60%	0.3	0.4	0.4	0.1	0.6	0.1	0.4	0.5	0.5	**-0.1**	0.3	0.4
70%	0.3	0.4	0.5	0.2	0.3	0.2	0.3	0.5	0.5	0.1	0.3	0.4
80%	0.3	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.2	0.3	0.3
90%	0.4	0.5	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.3	0.3	0.3
Long Term												
Full Simulation Period[a]	0.3	0.2	0.1	**-0.2**	**-0.2**	**-0.3**	0.1	0.3	0.4	0.0	0.3	0.2
Water Year Types[b]												
Wet (31%)	0.2	**-0.1**	**-0.7**	**-0.9**	**-1.0**	**-1.0**	**-0.5**	0.0	0.2	0.0	0.2	**-0.2**
Above Normal (25%)	0.4	0.3	0.3	**-1.2**	**-1.2**	**-1.0**	**-0.1**	0.3	0.4	**-0.1**	0.1	0.0
Below Normal (6%)	0.2	0.2	0.3	0.1	**-0.3**	**-0.1**	0.4	0.4	0.4	0.1	0.2	0.2
Dry (13%)	0.3	0.3	0.4	0.3	0.2	**-0.1**	0.4	0.4	0.5	**-0.1**	0.2	0.4
Critical (25%)	0.4	0.4	0.4	0.2	0.4	0.3	0.4	0.5	0.5	0.2	0.4	0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-26-2-23. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.2	2.3	5.3	5.4	6.7	5.8	3.8	1.5	1.1	1.6	1.4	2.2
20%	1.1	1.6	1.4	4.8	5.8	5.0	1.5	1.0	0.9	1.6	1.3	1.7
30%	1.1	1.1	1.3	3.0	3.4	3.5	1.2	1.0	0.9	1.5	1.3	1.4
40%	1.0	1.0	1.2	1.7	2.3	2.3	1.0	0.9	0.9	1.5	1.2	1.2
50%	1.0	0.9	1.1	1.6	1.6	2.1	1.0	0.8	0.8	1.5	1.2	1.1
60%	0.9	0.8	1.0	1.3	1.0	1.6	0.9	0.7	0.8	1.4	1.2	1.1
70%	0.9	0.7	0.9	1.1	1.0	1.2	0.9	0.7	0.8	1.2	1.1	1.1
80%	0.9	0.7	0.8	0.9	0.9	0.8	0.8	0.7	0.7	1.1	1.0	1.0
90%	0.8	0.6	0.7	0.7	0.8	0.8	0.6	0.5	0.7	1.0	1.0	1.0
Long Term												
Full Simulation Period[a]	1.0	1.3	1.9	2.4	2.8	2.8	1.6	1.0	0.9	1.4	1.2	1.4
Water Year Types[b]												
Wet (31%)	1.2	2.4	4.7	4.2	5.7	5.4	3.4	1.6	1.4	1.6	1.4	2.1
Above Normal (25%)	0.9	0.8	1.3	5.2	5.3	4.3	1.7	1.0	0.9	1.5	1.3	1.4
Below Normal (6%)	1.1	1.0	0.8	1.8	2.3	2.0	1.0	0.8	0.9	1.1	1.1	1.1
Dry (13%)	0.9	1.0	1.0	1.1	1.2	1.9	1.0	0.9	0.9	1.4	1.2	1.0
Critical (25%)	0.9	0.8	0.9	1.1	0.9	1.0	0.8	0.6	0.7	1.2	1.1	1.0

Alternative 7 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.5	2.3	4.6	4.2	5.6	4.7	3.1	1.6	1.5	1.9	1.8	2.1
20%	1.4	1.7	1.7	3.9	4.6	3.9	1.5	1.4	1.4	1.8	1.8	2.0
30%	1.4	1.4	1.6	2.6	2.8	2.7	1.4	1.3	1.4	1.8	1.7	1.7
40%	1.4	1.3	1.5	1.8	1.9	2.0	1.4	1.3	1.4	1.7	1.7	1.6
50%	1.3	1.3	1.4	1.7	1.7	1.8	1.3	1.2	1.4	1.7	1.6	1.6
60%	1.3	1.2	1.4	1.5	1.7	1.7	1.3	1.2	1.3	1.6	1.6	1.6
70%	1.3	1.2	1.3	1.4	1.4	1.5	1.2	1.2	1.3	1.6	1.6	1.5
80%	1.3	1.2	1.1	1.3	1.3	1.2	1.2	1.1	1.3	1.5	1.6	1.5
90%	1.3	1.1	1.1	1.1	1.2	1.2	1.1	1.0	1.2	1.5	1.5	1.5
Long Term												
Full Simulation Period[a]	1.4	1.5	2.1	2.3	2.6	2.5	1.7	1.3	1.4	1.7	1.7	1.7
Water Year Types[b]												
Wet (31%)	1.5	2.4	4.2	3.4	4.8	4.5	3.0	1.7	1.6	1.9	1.8	2.1
Above Normal (25%)	1.3	1.2	1.6	4.3	4.3	3.3	1.6	1.3	1.3	1.7	1.6	1.6
Below Normal (6%)	1.4	1.3	1.1	1.9	2.0	2.0	1.4	1.2	1.4	1.5	1.6	1.5
Dry (13%)	1.3	1.3	1.4	1.4	1.5	1.8	1.3	1.3	1.4	1.7	1.6	1.5
Critical (25%)	1.4	1.3	1.3	1.4	1.4	1.3	1.1	1.1	1.3	1.5	1.6	1.6

Alternative 7 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.3	0.1	**-0.7**	**-1.2**	**-1.1**	**-1.1**	**-0.7**	0.1	0.4	0.3	0.4	**-0.1**
20%	0.4	0.2	0.2	**-0.9**	**-1.2**	**-1.0**	0.1	0.4	0.5	0.2	0.4	0.3
30%	0.3	0.3	0.3	**-0.4**	**-0.7**	**-0.8**	0.2	0.4	0.5	0.3	0.4	0.3
40%	0.3	0.3	0.3	0.0	**-0.4**	**-0.4**	0.4	0.4	0.5	0.3	0.4	0.4
50%	0.4	0.4	0.4	0.1	0.1	**-0.3**	0.4	0.4	0.5	0.2	0.4	0.5
60%	0.4	0.4	0.4	0.2	0.6	0.1	0.4	0.5	0.5	0.2	0.4	0.5
70%	0.4	0.5	0.5	0.2	0.4	0.2	0.3	0.5	0.5	0.3	0.5	0.5
80%	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.5	0.5
90%	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5
Long Term												
Full Simulation Period[a]	0.4	0.3	0.1	**-0.2**	**-0.2**	**-0.3**	0.1	0.3	0.5	0.3	0.4	0.3
Water Year Types[b]												
Wet (31%)	0.3	**0.0**	**-0.5**	**-0.8**	**-1.0**	**-0.9**	**-0.4**	0.1	0.3	0.3	0.4	0.0
Above Normal (25%)	0.4	0.4	0.3	**-0.9**	**-1.0**	**-1.0**	**-0.1**	0.3	0.4	0.2	0.3	0.2
Below Normal (6%)	0.2	0.3	0.3	0.1	**-0.3**	**-0.1**	0.4	0.4	0.4	0.4	0.4	0.5
Dry (13%)	0.4	0.3	0.4	0.3	0.2	**0.0**	0.4	0.4	0.5	0.3	0.4	0.5
Critical (25%)	0.4	0.4	0.4	0.2	0.4	0.3	0.4	0.5	0.6	0.4	0.5	0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-26-2-24. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.2	2.3	5.3	5.4	6.7	5.8	3.8	1.5	1.1	1.6	1.4	2.2
20%	1.1	1.6	1.4	4.8	5.8	5.0	1.5	1.0	0.9	1.6	1.3	1.7
30%	1.1	1.1	1.3	3.0	3.4	3.5	1.2	1.0	0.9	1.5	1.3	1.4
40%	1.0	1.0	1.2	1.7	2.3	2.3	1.0	0.9	0.9	1.5	1.2	1.2
50%	1.0	0.9	1.1	1.6	1.6	2.1	1.0	0.8	0.8	1.5	1.2	1.1
60%	0.9	0.8	1.0	1.3	1.0	1.6	0.9	0.7	0.8	1.4	1.2	1.1
70%	0.9	0.7	0.9	1.1	1.0	1.2	0.9	0.7	0.8	1.2	1.1	1.1
80%	0.9	0.7	0.8	0.9	0.9	0.8	0.8	0.7	0.7	1.1	1.0	1.0
90%	0.8	0.6	0.7	0.7	0.8	0.8	0.6	0.5	0.7	1.0	1.0	1.0
Long Term												
Full Simulation Period[a]	1.0	1.3	1.9	2.4	2.8	2.8	1.6	1.0	0.9	1.4	1.2	1.4
Water Year Types[b]												
Wet (31%)	1.2	2.4	4.7	4.2	5.7	5.4	3.4	1.6	1.4	1.6	1.4	2.1
Above Normal (25%)	0.9	0.8	1.3	5.2	5.3	4.3	1.7	1.0	0.9	1.5	1.3	1.4
Below Normal (6%)	1.1	1.0	0.8	1.8	2.3	2.0	1.0	0.8	0.9	1.1	1.1	1.1
Dry (13%)	0.9	1.0	1.0	1.1	1.2	1.9	1.0	0.9	0.9	1.4	1.2	1.0
Critical (25%)	0.9	0.8	0.9	1.1	0.9	1.0	0.8	0.6	0.7	1.2	1.1	1.0

Alternative 8 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.6	2.5	4.6	4.3	5.5	4.7	3.3	1.7	1.5	1.8	1.8	2.1
20%	1.4	1.8	1.7	3.9	4.6	3.9	1.8	1.5	1.4	1.6	1.7	1.9
30%	1.4	1.4	1.6	2.6	3.1	2.9	1.5	1.3	1.4	1.6	1.7	1.7
40%	1.4	1.4	1.5	1.9	1.9	2.1	1.5	1.3	1.4	1.6	1.7	1.6
50%	1.3	1.3	1.4	1.8	1.8	2.0	1.4	1.3	1.4	1.5	1.6	1.6
60%	1.3	1.3	1.4	1.6	1.7	1.9	1.4	1.2	1.3	1.5	1.6	1.5
70%	1.3	1.2	1.3	1.4	1.4	1.5	1.3	1.2	1.3	1.5	1.6	1.5
80%	1.3	1.2	1.2	1.3	1.4	1.3	1.2	1.1	1.3	1.5	1.5	1.5
90%	1.3	1.1	1.1	1.1	1.2	1.3	1.2	1.1	1.2	1.4	1.5	1.4
Long Term												
Full Simulation Period[a]	1.4	1.6	2.1	2.3	2.7	2.6	1.8	1.4	1.4	1.6	1.6	1.7
Water Year Types[b]												
Wet (31%)	1.5	2.5	4.2	3.4	4.8	4.5	3.1	1.9	1.7	1.7	1.8	2.1
Above Normal (25%)	1.3	1.2	1.6	4.4	4.3	3.4	1.8	1.4	1.3	1.5	1.6	1.6
Below Normal (6%)	1.4	1.3	1.2	2.0	2.4	2.0	1.5	1.3	1.3	1.4	1.5	1.5
Dry (13%)	1.3	1.3	1.4	1.4	1.5	2.0	1.5	1.3	1.4	1.5	1.6	1.5
Critical (25%)	1.4	1.3	1.3	1.4	1.4	1.4	1.2	1.1	1.3	1.5	1.6	1.6

Alternative 8 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.4	0.2	**-0.7**	**-1.1**	**-1.1**	**-1.1**	**-0.5**	0.2	0.4	0.2	0.4	**-0.1**
20%	0.4	0.2	0.2	**-0.9**	**-1.2**	**-1.1**	0.3	0.4	0.5	0.0	0.4	0.3
30%	0.4	0.3	0.3	**-0.3**	**-0.4**	**-0.6**	0.3	0.4	0.5	0.1	0.4	0.3
40%	0.4	0.4	0.3	0.2	**-0.4**	**-0.3**	0.4	0.4	0.5	0.1	0.4	0.4
50%	0.4	0.4	0.4	0.2	0.2	**-0.1**	0.5	0.5	0.5	0.1	0.4	0.5
60%	0.4	0.4	0.4	0.2	0.7	0.2	0.5	0.5	0.5	0.1	0.4	0.4
70%	0.4	0.5	0.5	0.2	0.4	0.3	0.4	0.5	0.5	0.2	0.4	0.4
80%	0.4	0.5	0.4	0.4	0.4	0.5	0.4	0.4	0.5	0.3	0.5	0.5
90%	0.4	0.5	0.4	0.4	0.4	0.5	0.6	0.5	0.5	0.4	0.4	0.5
Long Term												
Full Simulation Period[a]	0.4	0.3	0.2	**-0.1**	**-0.1**	**-0.2**	0.2	0.4	0.5	0.2	0.4	0.3
Water Year Types[b]												
Wet (31%)	0.3	0.1	**-0.5**	**-0.7**	**-1.0**	**-0.9**	**-0.3**	0.2	0.3	0.2	0.4	0.0
Above Normal (25%)	0.4	0.4	0.3	**-0.8**	**-0.9**	**-0.9**	0.0	0.3	0.4	0.0	0.3	0.2
Below Normal (6%)	0.3	0.3	0.3	0.2	0.1	0.0	0.5	0.5	0.4	0.3	0.4	0.4
Dry (13%)	0.4	0.3	0.4	0.3	0.3	0.2	0.5	0.4	0.5	0.1	0.4	0.5
Critical (25%)	0.4	0.5	0.4	0.2	0.5	0.3	0.4	0.5	0.6	0.4	0.5	0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-26-2-25. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.2	2.3	5.3	5.4	6.7	5.8	3.8	1.5	1.1	1.6	1.4	2.2
20%	1.1	1.6	1.4	4.8	5.8	5.0	1.5	1.0	0.9	1.6	1.3	1.7
30%	1.1	1.1	1.3	3.0	3.4	3.5	1.2	1.0	0.9	1.5	1.3	1.4
40%	1.0	1.0	1.2	1.7	2.3	2.3	1.0	0.9	0.9	1.5	1.2	1.2
50%	1.0	0.9	1.1	1.6	1.6	2.1	1.0	0.8	0.8	1.5	1.2	1.1
60%	0.9	0.8	1.0	1.3	1.0	1.6	0.9	0.7	0.8	1.4	1.2	1.1
70%	0.9	0.7	0.9	1.1	1.0	1.2	0.9	0.7	0.8	1.2	1.1	1.1
80%	0.9	0.7	0.8	0.9	0.9	0.8	0.8	0.7	0.7	1.1	1.0	1.0
90%	0.8	0.6	0.7	0.7	0.8	0.8	0.6	0.5	0.7	1.0	1.0	1.0
Long Term												
Full Simulation Period[a]	1.0	1.3	1.9	2.4	2.8	2.8	1.6	1.0	0.9	1.4	1.2	1.4
Water Year Types[b]												
Wet (31%)	1.2	2.4	4.7	4.2	5.7	5.4	3.4	1.6	1.4	1.6	1.4	2.1
Above Normal (25%)	0.9	0.8	1.3	5.2	5.3	4.3	1.7	1.0	0.9	1.5	1.3	1.4
Below Normal (6%)	1.1	1.0	0.8	1.8	2.3	2.0	1.0	0.8	0.9	1.1	1.1	1.1
Dry (13%)	0.9	1.0	1.0	1.1	1.2	1.9	1.0	0.9	0.9	1.4	1.2	1.0
Critical (25%)	0.9	0.8	0.9	1.1	0.9	1.0	0.8	0.6	0.7	1.2	1.1	1.0

Alternative 9 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.6	2.5	5.1	5.1	6.4	5.6	3.6	1.8	1.7	2.0	1.8	2.4
20%	1.5	1.8	1.7	4.6	5.5	4.7	1.6	1.5	1.4	1.8	1.7	2.2
30%	1.5	1.5	1.6	2.9	3.3	3.2	1.5	1.4	1.4	1.8	1.7	1.8
40%	1.4	1.4	1.5	1.9	2.4	2.2	1.4	1.4	1.4	1.7	1.7	1.7
50%	1.4	1.4	1.5	1.8	1.8	2.1	1.4	1.3	1.4	1.7	1.7	1.6
60%	1.4	1.4	1.4	1.5	1.4	1.8	1.3	1.2	1.3	1.6	1.6	1.6
70%	1.4	1.2	1.4	1.4	1.4	1.5	1.3	1.2	1.3	1.6	1.6	1.6
80%	1.3	1.2	1.2	1.3	1.3	1.2	1.2	1.2	1.3	1.5	1.5	1.5
90%	1.3	1.1	1.1	1.2	1.2	1.2	1.1	1.1	1.3	1.5	1.5	1.5
Long Term												
Full Simulation Period[a]	1.5	1.7	2.2	2.5	3.0	2.9	1.9	1.4	1.5	1.7	1.7	1.8
Water Year Types[b]												
Wet (31%)	1.6	2.6	4.7	4.0	5.5	5.2	3.5	2.0	1.8	1.9	1.8	2.4
Above Normal (25%)	1.3	1.3	1.6	5.0	5.1	4.0	1.9	1.4	1.4	1.8	1.7	1.8
Below Normal (6%)	1.5	1.4	1.2	2.0	2.4	2.1	1.4	1.2	1.4	1.5	1.5	1.5
Dry (13%)	1.4	1.4	1.4	1.4	1.5	2.0	1.3	1.4	1.4	1.7	1.6	1.5
Critical (25%)	1.4	1.3	1.3	1.4	1.3	1.4	1.2	1.1	1.3	1.6	1.6	1.5

Alternative 9 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.4	0.2	**-0.2**	**-0.3**	**-0.2**	**-0.2**	**-0.2**	0.3	0.5	0.4	0.4	0.2
20%	0.4	0.3	0.2	**-0.2**	**-0.3**	**-0.3**	0.2	0.5	0.5	0.3	0.4	0.6
30%	0.4	0.4	0.3	**-0.1**	**-0.1**	**-0.3**	0.3	0.4	0.5	0.2	0.4	0.4
40%	0.4	0.4	0.3	0.2	0.1	**-0.1**	0.4	0.5	0.5	0.2	0.5	0.5
50%	0.5	0.4	0.4	0.2	0.2	0.0	0.4	0.5	0.6	0.2	0.5	0.5
60%	0.5	0.5	0.4	0.2	0.4	0.1	0.5	0.5	0.5	0.2	0.5	0.5
70%	0.5	0.5	0.5	0.3	0.4	0.3	0.4	0.5	0.5	0.4	0.4	0.5
80%	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.6	0.4	0.5	0.5
90%	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5
Long Term												
Full Simulation Period[a]	0.4	0.4	0.3	0.1	0.1	0.1	0.3	0.4	0.5	0.3	0.5	0.4
Water Year Types[b]												
Wet (31%)	0.4	0.2	**-0.1**	**-0.2**	**-0.2**	**-0.2**	0.0	0.3	0.4	0.3	0.4	0.3
Above Normal (25%)	0.4	0.4	0.3	**-0.2**	**-0.2**	**-0.3**	0.1	0.4	0.5	0.3	0.4	0.4
Below Normal (6%)	0.4	0.4	0.4	0.2	0.1	0.1	0.4	0.4	0.5	0.4	0.4	0.4
Dry (13%)	0.5	0.4	0.4	0.4	0.3	0.1	0.4	0.5	0.5	0.3	0.4	0.5
Critical (25%)	0.4	0.5	0.5	0.3	0.4	0.3	0.4	0.5	0.6	0.4	0.5	0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

C.27. Old River at Tracy Boulevard Water Surface Elevation

Table C-27-1-1. Old River at Tracy Blvd, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	2.6	3.5	3.9	4.2	4.7	4.7	4.3	3.8	3.8	3.4	2.8	3.2
20%	2.3	2.4	2.9	3.4	3.8	3.8	3.5	3.2	3.6	2.7	2.7	2.6
30%	2.3	2.3	2.7	3.0	3.4	3.1	2.9	3.0	3.2	2.5	2.6	2.5
40%	2.3	2.3	2.5	2.9	3.1	2.9	2.8	2.8	2.5	2.1	2.5	2.5
50%	2.2	2.2	2.5	2.9	2.8	2.8	2.7	2.8	2.5	2.1	2.4	2.4
60%	2.1	2.2	2.4	2.8	2.7	2.7	2.7	2.6	2.4	2.0	2.3	2.4
70%	2.1	2.1	2.3	2.6	2.5	2.5	2.6	2.5	2.3	2.0	2.3	2.3
80%	2.1	2.0	2.2	2.5	2.5	2.4	2.6	2.5	2.3	1.9	2.2	2.3
90%	2.1	2.0	2.2	2.4	2.4	2.1	2.3	2.4	2.2	1.8	2.1	2.2
Long Term												
Full Simulation Period[a]	2.3	2.5	2.8	3.1	3.3	3.3	3.0	3.0	2.9	2.4	2.5	2.6
Water Year Types[b]												
Wet (31%)	2.6	3.4	3.8	4.0	4.6	5.2	4.1	3.9	4.0	3.4	3.0	3.2
Above Normal (25%)	2.2	2.0	2.3	3.8	4.2	3.5	3.3	3.1	3.6	3.0	2.5	2.3
Below Normal (6%)	1.9	2.1	2.2	2.9	2.9	3.0	2.9	2.9	2.5	1.9	2.2	2.2
Dry (13%)	2.2	2.2	2.4	2.5	2.5	2.6	2.6	2.6	2.4	2.0	2.2	2.3
Critical (25%)	2.2	2.3	2.5	2.6	2.6	2.3	2.5	2.4	2.3	1.9	2.4	2.5

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	4.4	5.0	5.6	6.0	6.2	6.2	5.8	5.3	4.5	4.5	4.4	4.7
20%	4.3	4.1	4.6	5.2	5.3	5.5	5.1	4.8	4.4	4.3	4.3	4.6
30%	4.2	4.0	4.5	4.8	5.1	4.7	4.5	4.7	4.3	4.2	4.2	4.3
40%	4.1	4.0	4.5	4.7	4.6	4.5	4.4	4.5	4.2	4.1	4.1	4.2
50%	4.0	3.9	4.4	4.6	4.5	4.5	4.3	4.4	4.1	4.0	4.1	4.1
60%	3.9	3.9	4.3	4.6	4.4	4.4	4.3	4.4	4.1	3.9	4.1	4.1
70%	3.9	3.8	4.2	4.4	4.2	4.3	4.3	4.3	4.1	3.8	4.0	4.1
80%	3.8	3.7	4.1	4.3	4.2	4.1	4.2	4.2	4.0	3.8	3.9	4.0
90%	3.8	3.6	3.8	4.2	4.2	3.8	4.0	4.1	4.0	3.7	3.9	3.7
Long Term												
Full Simulation Period[a]	4.1	4.1	4.6	4.9	4.9	4.9	4.6	4.6	4.3	4.1	4.1	4.2
Water Year Types[b]												
Wet (31%)	4.3	4.7	5.6	5.6	6.1	6.7	5.5	5.3	4.8	4.6	4.3	4.8
Above Normal (25%)	4.0	3.6	4.3	5.7	5.9	5.2	4.9	4.9	4.2	4.2	4.0	4.1
Below Normal (6%)	3.7	3.9	3.8	4.7	4.5	4.5	4.5	4.5	4.1	3.5	3.9	3.7
Dry (13%)	4.1	3.9	4.2	4.3	4.2	4.3	4.2	4.3	4.2	3.8	4.0	4.1
Critical (25%)	4.0	4.0	4.4	4.4	4.3	4.0	4.1	4.2	4.0	4.0	4.2	4.1

No Action Alternative (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.8	1.5	1.7	1.8	1.5	1.6	1.5	1.5	0.7	1.1	1.6	1.5
20%	2.0	1.7	1.8	1.8	1.5	1.6	1.6	1.5	0.8	1.6	1.6	2.0
30%	1.9	1.7	1.9	1.8	1.7	1.6	1.6	1.7	1.1	1.7	1.6	1.8
40%	1.8	1.7	1.9	1.8	1.5	1.7	1.6	1.7	1.7	1.9	1.7	1.7
50%	1.8	1.7	1.9	1.7	1.7	1.7	1.6	1.7	1.7	1.9	1.7	1.7
60%	1.8	1.7	1.9	1.8	1.7	1.7	1.6	1.8	1.7	1.9	1.7	1.7
70%	1.8	1.7	2.0	1.8	1.7	1.8	1.6	1.8	1.7	1.9	1.7	1.7
80%	1.7	1.7	1.9	1.8	1.7	1.7	1.6	1.7	1.7	1.9	1.7	1.7
90%	1.7	1.6	1.7	1.8	1.7	1.7	1.7	1.8	1.7	2.0	1.8	1.5
Long Term												
Full Simulation Period[a]	1.8	1.6	1.8	1.8	1.6	1.6	1.6	1.7	1.4	1.6	1.6	1.7
Water Year Types[b]												
Wet (31%)	1.7	1.3	1.7	1.6	1.4	1.5	1.4	1.4	0.9	1.2	1.3	1.6
Above Normal (25%)	1.9	1.5	2.0	1.9	1.8	1.7	1.6	1.8	0.5	1.2	1.4	1.8
Below Normal (6%)	1.8	1.8	1.6	1.8	1.6	1.5	1.6	1.6	1.6	1.7	1.6	1.5
Dry (13%)	1.9	1.8	1.8	1.8	1.7	1.7	1.6	1.7	1.8	1.8	1.8	1.8
Critical (25%)	1.8	1.7	1.9	1.8	1.7	1.7	1.6	1.8	1.8	2.1	1.9	1.6

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

Table C-27-1-2. Old River at Tracy Blvd, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	2.6	3.5	3.9	4.2	4.7	4.7	4.3	3.8	3.8	3.4	2.8	3.2
20%	2.3	2.4	2.9	3.4	3.8	3.8	3.5	3.2	3.6	2.7	2.7	2.6
30%	2.3	2.3	2.7	3.0	3.4	3.1	2.9	3.0	3.2	2.5	2.6	2.5
40%	2.3	2.3	2.5	2.9	3.1	2.9	2.8	2.8	2.5	2.1	2.5	2.5
50%	2.2	2.2	2.5	2.9	2.8	2.8	2.7	2.8	2.5	2.1	2.4	2.4
60%	2.1	2.2	2.4	2.8	2.7	2.7	2.7	2.6	2.4	2.0	2.3	2.4
70%	2.1	2.1	2.3	2.6	2.5	2.5	2.6	2.5	2.3	2.0	2.3	2.3
80%	2.1	2.0	2.2	2.5	2.5	2.4	2.6	2.5	2.3	1.9	2.2	2.3
90%	2.1	2.0	2.2	2.4	2.4	2.1	2.3	2.4	2.2	1.8	2.1	2.2
Long Term												
Full Simulation Period[a]	2.3	2.5	2.8	3.1	3.3	3.3	3.0	3.0	2.9	2.4	2.5	2.6
Water Year Types[b]												
Wet (31%)	2.6	3.4	3.8	4.0	4.6	5.2	4.1	3.9	4.0	3.4	3.0	3.2
Above Normal (25%)	2.2	2.0	2.3	3.8	4.2	3.5	3.3	3.1	3.6	3.0	2.5	2.3
Below Normal (6%)	1.9	2.1	2.2	2.9	2.9	3.0	2.9	2.9	2.5	1.9	2.2	2.2
Dry (13%)	2.2	2.2	2.4	2.5	2.5	2.6	2.6	2.6	2.4	2.0	2.2	2.3
Critical (25%)	2.2	2.3	2.5	2.6	2.6	2.3	2.5	2.4	2.3	1.9	2.4	2.5

Alternative 1A,1B,1C (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	4.4	4.8	5.5	5.8	6.2	6.3	5.6	4.8	4.5	4.4	4.4	4.6
20%	4.1	4.1	4.3	4.9	5.4	5.3	4.6	4.3	4.3	4.3	4.3	4.4
30%	4.0	4.0	4.1	4.6	5.1	4.9	4.0	4.2	4.2	4.2	4.2	4.2
40%	3.9	3.9	4.1	4.3	4.5	4.6	3.9	4.0	4.1	4.2	4.2	4.2
50%	3.9	3.9	4.0	4.2	4.1	4.1	3.9	4.0	4.1	4.1	4.1	4.1
60%	3.8	3.9	3.8	4.1	4.0	4.0	3.8	3.9	3.9	4.1	4.0	4.1
70%	3.8	3.8	3.8	4.1	3.9	3.9	3.8	3.9	3.9	4.0	4.0	4.1
80%	3.7	3.8	3.7	4.0	3.8	3.7	3.7	3.9	3.9	3.9	3.9	4.1
90%	3.6	3.7	3.5	4.0	3.8	3.5	3.5	3.7	3.8	3.8	3.9	3.9
Long Term												
Full Simulation Period[a]	4.0	4.1	4.3	4.6	4.7	4.8	4.2	4.2	4.2	4.1	4.1	4.2
Water Year Types[b]												
Wet (31%)	4.3	4.8	5.4	5.5	6.2	6.8	5.3	5.0	4.8	4.4	4.4	4.7
Above Normal (25%)	3.8	3.8	3.9	5.5	5.9	5.2	4.5	4.3	4.0	4.1	4.1	4.1
Below Normal (6%)	3.7	3.9	3.5	4.4	4.5	4.7	3.9	4.0	4.2	3.9	3.9	3.8
Dry (13%)	3.9	3.8	3.9	4.0	3.9	3.9	3.8	4.0	4.0	3.9	4.0	4.0
Critical (25%)	3.9	3.9	3.9	4.1	3.9	3.7	3.7	3.8	3.9	4.1	4.0	4.1

Alternative 1A,1B,1C (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.8	1.3	1.6	1.6	1.5	1.6	1.3	1.0	0.6	1.0	1.6	1.4
20%	1.8	1.7	1.5	1.5	1.6	1.4	1.1	1.0	0.7	1.6	1.6	1.8
30%	1.7	1.7	1.5	1.6	1.6	1.8	1.1	1.3	0.9	1.7	1.6	1.6
40%	1.6	1.7	1.6	1.4	1.5	1.7	1.1	1.2	1.6	2.0	1.7	1.7
50%	1.7	1.7	1.6	1.3	1.3	1.2	1.1	1.2	1.6	2.1	1.7	1.7
60%	1.7	1.8	1.4	1.3	1.3	1.3	1.2	1.3	1.5	2.1	1.7	1.7
70%	1.7	1.7	1.5	1.4	1.4	1.4	1.2	1.4	1.6	2.0	1.7	1.7
80%	1.6	1.8	1.4	1.5	1.4	1.3	1.2	1.4	1.6	2.1	1.7	1.8
90%	1.6	1.7	1.4	1.6	1.3	1.5	1.2	1.4	1.6	2.0	1.8	1.6
Long Term												
Full Simulation Period[a]	1.7	1.6	1.5	1.5	1.4	1.5	1.2	1.3	1.3	1.7	1.6	1.6
Water Year Types[b]												
Wet (31%)	1.7	1.3	1.6	1.5	1.5	1.6	1.2	1.1	0.8	1.0	1.3	1.5
Above Normal (25%)	1.6	1.7	1.6	1.7	1.7	1.7	1.2	1.2	0.4	1.1	1.5	1.8
Below Normal (6%)	1.8	1.8	1.3	1.4	1.6	1.7	1.0	1.0	1.7	2.1	1.6	1.7
Dry (13%)	1.7	1.7	1.5	1.5	1.4	1.3	1.2	1.4	1.7	1.9	1.8	1.7
Critical (25%)	1.7	1.7	1.5	1.4	1.3	1.4	1.2	1.4	1.6	2.2	1.6	1.6

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-27-1-3. Old River at Tracy Blvd, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.6	3.5	3.9	4.2	4.7	4.7	4.3	3.8	3.8	3.4	2.8	3.2
20%	2.3	2.4	2.9	3.4	3.8	3.8	3.5	3.2	3.6	2.7	2.7	2.6
30%	2.3	2.3	2.7	3.0	3.4	3.1	2.9	3.0	3.2	2.5	2.6	2.5
40%	2.3	2.3	2.5	2.9	3.1	2.9	2.8	2.8	2.5	2.1	2.5	2.5
50%	2.2	2.2	2.5	2.9	2.8	2.8	2.7	2.8	2.5	2.1	2.4	2.4
60%	2.1	2.2	2.4	2.8	2.7	2.7	2.7	2.6	2.4	2.0	2.3	2.4
70%	2.1	2.1	2.3	2.6	2.5	2.5	2.6	2.5	2.3	2.0	2.3	2.3
80%	2.1	2.0	2.2	2.5	2.5	2.4	2.6	2.5	2.3	1.9	2.2	2.3
90%	2.1	2.0	2.2	2.4	2.4	2.1	2.3	2.4	2.2	1.8	2.1	2.2
Long Term												
Full Simulation Period[a]	2.3	2.5	2.8	3.1	3.3	3.3	3.0	3.0	2.9	2.4	2.5	2.6
Water Year Types[b]												
Wet (31%)	2.6	3.4	3.8	4.0	4.6	5.2	4.1	3.9	4.0	3.4	3.0	3.2
Above Normal (25%)	2.2	2.0	2.3	3.8	4.2	3.5	3.3	3.1	3.6	3.0	2.5	2.3
Below Normal (6%)	1.9	2.1	2.2	2.9	2.9	3.0	2.9	2.9	2.5	1.9	2.2	2.2
Dry (13%)	2.2	2.2	2.4	2.5	2.5	2.6	2.6	2.6	2.4	2.0	2.2	2.3
Critical (25%)	2.2	2.3	2.5	2.6	2.6	2.3	2.5	2.4	2.3	1.9	2.4	2.5

Alternative 2A,2B,2C (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	5.0	5.5	5.8	6.2	6.3	5.6	4.9	4.2	4.1	4.2	4.9
20%	4.0	4.1	4.1	4.8	5.4	5.3	4.7	4.2	4.0	4.0	4.1	4.6
30%	3.9	4.0	4.1	4.5	5.0	4.7	4.0	4.1	3.9	3.9	4.0	4.3
40%	3.8	4.0	4.1	4.2	4.1	4.1	3.9	3.9	3.8	3.9	4.0	4.0
50%	3.8	3.9	4.0	4.2	4.0	4.0	3.9	3.9	3.8	3.8	4.0	4.0
60%	3.7	3.8	3.9	4.1	4.0	3.9	3.8	3.8	3.7	3.8	3.8	4.0
70%	3.7	3.8	3.9	4.1	3.8	3.8	3.8	3.8	3.7	3.8	3.7	3.9
80%	3.7	3.7	3.8	4.1	3.8	3.7	3.7	3.7	3.6	3.7	3.7	3.9
90%	3.6	3.6	3.6	4.0	3.7	3.4	3.5	3.6	3.5	3.6	3.6	3.7
Long Term												
Full Simulation Period[a]	3.9	4.1	4.3	4.6	4.7	4.7	4.2	4.2	3.9	3.9	3.9	4.2
Water Year Types[b]												
Wet (31%)	4.2	4.8	5.4	5.4	6.1	6.8	5.3	5.0	4.6	4.3	4.3	5.0
Above Normal (25%)	3.6	3.6	4.0	5.4	5.8	5.1	4.5	4.4	3.9	3.8	3.9	4.3
Below Normal (6%)	3.7	4.1	3.5	4.2	4.1	4.1	3.9	3.9	3.7	3.7	3.8	3.8
Dry (13%)	3.9	3.9	4.0	4.0	3.8	3.8	3.8	3.8	3.7	3.7	3.8	3.8
Critical (25%)	3.8	3.9	3.9	4.1	3.8	3.6	3.6	3.7	3.6	3.8	3.8	3.9

Alternative 2A,2B,2C (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.6	1.4	1.6	1.6	1.5	1.6	1.3	1.1	0.3	0.7	1.4	1.8
20%	1.7	1.7	1.3	1.4	1.6	1.4	1.2	0.9	0.5	1.2	1.4	2.0
30%	1.6	1.7	1.4	1.5	1.5	1.7	1.1	1.2	0.7	1.4	1.4	1.7
40%	1.5	1.7	1.5	1.3	1.0	1.2	1.1	1.1	1.3	1.7	1.5	1.6
50%	1.5	1.7	1.6	1.3	1.2	1.2	1.1	1.2	1.3	1.8	1.5	1.6
60%	1.6	1.6	1.5	1.3	1.3	1.2	1.2	1.3	1.3	1.8	1.4	1.6
70%	1.6	1.7	1.6	1.5	1.3	1.2	1.1	1.3	1.3	1.8	1.4	1.6
80%	1.6	1.7	1.6	1.5	1.3	1.3	1.1	1.3	1.3	1.8	1.5	1.6
90%	1.6	1.6	1.5	1.6	1.3	1.4	1.2	1.3	1.3	1.8	1.5	1.5
Long Term												
Full Simulation Period[a]	1.6	1.6	1.5	1.5	1.4	1.4	1.2	1.2	1.0	1.5	1.4	1.6
Water Year Types[b]												
Wet (31%)	1.5	1.4	1.6	1.4	1.5	1.5	1.2	1.1	0.6	0.9	1.2	1.7
Above Normal (25%)	1.5	1.5	1.6	1.6	1.7	1.6	1.2	1.3	0.3	0.8	1.3	2.0
Below Normal (6%)	1.8	2.0	1.3	1.3	1.1	1.1	1.0	1.0	1.2	1.8	1.5	1.6
Dry (13%)	1.6	1.8	1.6	1.4	1.3	1.2	1.2	1.2	1.4	1.7	1.6	1.6
Critical (25%)	1.6	1.6	1.4	1.5	1.2	1.3	1.2	1.3	1.3	1.9	1.4	1.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-27-1-4. Old River at Tracy Blvd, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	2.6	3.5	3.9	4.2	4.7	4.7	4.3	3.8	3.8	3.4	2.8	3.2
20%	2.3	2.4	2.9	3.4	3.8	3.8	3.5	3.2	3.6	2.7	2.7	2.6
30%	2.3	2.3	2.7	3.0	3.4	3.1	2.9	3.0	3.2	2.5	2.6	2.5
40%	2.3	2.3	2.5	2.9	3.1	2.9	2.8	2.8	2.5	2.1	2.5	2.5
50%	2.2	2.2	2.5	2.9	2.8	2.8	2.7	2.8	2.5	2.1	2.4	2.4
60%	2.1	2.2	2.4	2.8	2.7	2.7	2.7	2.6	2.4	2.0	2.3	2.4
70%	2.1	2.1	2.3	2.6	2.5	2.5	2.6	2.5	2.3	2.0	2.3	2.3
80%	2.1	2.0	2.2	2.5	2.5	2.4	2.6	2.5	2.3	1.9	2.2	2.3
90%	2.1	2.0	2.2	2.4	2.4	2.1	2.3	2.4	2.2	1.8	2.1	2.2
Long Term												
Full Simulation Period[a]	2.3	2.5	2.8	3.1	3.3	3.3	3.0	3.0	2.9	2.4	2.5	2.6
Water Year Types[b]												
Wet (31%)	2.6	3.4	3.8	4.0	4.6	5.2	4.1	3.9	4.0	3.4	3.0	3.2
Above Normal (25%)	2.2	2.0	2.3	3.8	4.2	3.5	3.3	3.1	3.6	3.0	2.5	2.3
Below Normal (6%)	1.9	2.1	2.2	2.9	2.9	3.0	2.9	2.9	2.5	1.9	2.2	2.2
Dry (13%)	2.2	2.2	2.4	2.5	2.5	2.6	2.6	2.6	2.4	2.0	2.2	2.3
Critical (25%)	2.2	2.3	2.5	2.6	2.6	2.3	2.5	2.4	2.3	1.9	2.4	2.5

Alternative 3 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	4.3	4.6	5.2	5.6	6.0	6.0	5.4	4.7	4.3	4.4	4.4	4.4
20%	4.1	4.0	4.2	4.7	5.2	5.3	4.6	4.3	4.2	4.3	4.3	4.2
30%	4.0	4.0	4.1	4.3	4.8	4.7	4.0	4.2	4.2	4.2	4.2	4.2
40%	4.0	4.0	4.0	4.3	4.3	4.3	3.9	4.0	4.1	4.2	4.2	4.1
50%	3.9	3.9	3.9	4.2	4.1	4.1	3.9	4.0	4.0	4.1	4.1	4.1
60%	3.9	3.8	3.9	4.1	4.1	4.0	3.8	3.9	3.9	4.0	4.0	4.0
70%	3.8	3.8	3.8	4.1	3.9	3.9	3.8	3.9	3.9	4.0	3.9	4.0
80%	3.7	3.8	3.8	4.0	3.8	3.7	3.7	3.8	3.9	4.0	3.9	4.0
90%	3.7	3.7	3.5	4.0	3.7	3.5	3.5	3.7	3.8	3.8	3.8	3.9
Long Term												
Full Simulation Period[a]	4.0	4.0	4.2	4.5	4.7	4.7	4.2	4.2	4.1	4.1	4.1	4.1
Water Year Types[b]												
Wet (31%)	4.3	4.6	5.2	5.2	6.0	6.6	5.1	4.9	4.6	4.4	4.4	4.5
Above Normal (25%)	3.8	3.7	4.0	5.3	5.7	5.1	4.4	4.3	3.9	4.1	4.0	4.0
Below Normal (6%)	3.7	3.8	3.5	4.3	4.3	4.5	3.9	4.0	4.2	4.0	3.9	3.8
Dry (13%)	3.9	3.8	3.8	4.0	3.9	3.9	3.8	3.9	4.1	3.9	4.0	4.0
Critical (25%)	3.9	3.9	3.9	4.1	3.9	3.7	3.7	3.8	3.9	4.1	4.0	4.1

Alternative 3 (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.6	1.1	1.4	1.5	1.3	1.4	1.1	0.9	0.4	1.0	1.6	1.2
20%	1.7	1.6	1.3	1.3	1.4	1.4	1.1	1.0	0.7	1.6	1.6	1.6
30%	1.7	1.7	1.4	1.3	1.4	1.6	1.1	1.3	1.0	1.7	1.6	1.6
40%	1.7	1.7	1.5	1.4	1.2	1.5	1.1	1.2	1.6	2.0	1.7	1.7
50%	1.7	1.7	1.5	1.3	1.3	1.2	1.2	1.2	1.6	2.1	1.7	1.7
60%	1.8	1.7	1.5	1.3	1.4	1.3	1.2	1.3	1.5	2.0	1.7	1.6
70%	1.7	1.7	1.5	1.5	1.4	1.3	1.2	1.4	1.6	2.0	1.7	1.7
80%	1.6	1.8	1.5	1.5	1.4	1.3	1.2	1.4	1.6	2.1	1.7	1.7
90%	1.6	1.8	1.3	1.6	1.3	1.5	1.2	1.3	1.6	2.0	1.8	1.7
Long Term												
Full Simulation Period[a]	1.7	1.6	1.4	1.4	1.4	1.4	1.1	1.2	1.2	1.7	1.6	1.6
Water Year Types[b]												
Wet (31%)	1.7	1.2	1.4	1.2	1.3	1.4	1.0	1.0	0.7	1.0	1.3	1.3
Above Normal (25%)	1.6	1.7	1.6	1.5	1.6	1.6	1.1	1.2	0.3	1.1	1.5	1.7
Below Normal (6%)	1.8	1.7	1.3	1.4	1.4	1.5	1.0	1.0	1.7	2.1	1.6	1.7
Dry (13%)	1.7	1.7	1.5	1.5	1.4	1.3	1.2	1.3	1.7	1.9	1.8	1.8
Critical (25%)	1.6	1.7	1.4	1.5	1.3	1.4	1.2	1.4	1.6	2.2	1.7	1.6

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-27-1-5. Old River at Tracy Blvd, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.6	3.5	3.9	4.2	4.7	4.7	4.3	3.8	3.8	3.4	2.8	3.2
20%	2.3	2.4	2.9	3.4	3.8	3.8	3.5	3.2	3.6	2.7	2.7	2.6
30%	2.3	2.3	2.7	3.0	3.4	3.1	2.9	3.0	3.2	2.5	2.6	2.5
40%	2.3	2.3	2.5	2.9	3.1	2.9	2.8	2.8	2.5	2.1	2.5	2.5
50%	2.2	2.2	2.5	2.9	2.8	2.8	2.7	2.8	2.5	2.1	2.4	2.4
60%	2.1	2.2	2.4	2.8	2.7	2.7	2.7	2.6	2.4	2.0	2.3	2.4
70%	2.1	2.1	2.3	2.6	2.5	2.5	2.6	2.5	2.3	2.0	2.3	2.3
80%	2.1	2.0	2.2	2.5	2.5	2.4	2.6	2.5	2.3	1.9	2.2	2.3
90%	2.1	2.0	2.2	2.4	2.4	2.1	2.3	2.4	2.2	1.8	2.1	2.2
Long Term												
Full Simulation Period[a]	2.3	2.5	2.8	3.1	3.3	3.3	3.0	3.0	2.9	2.4	2.5	2.6
Water Year Types[b]												
Wet (31%)	2.6	3.4	3.8	4.0	4.6	5.2	4.1	3.9	4.0	3.4	3.0	3.2
Above Normal (25%)	2.2	2.0	2.3	3.8	4.2	3.5	3.3	3.1	3.6	3.0	2.5	2.3
Below Normal (6%)	1.9	2.1	2.2	2.9	2.9	3.0	2.9	2.9	2.5	1.9	2.2	2.2
Dry (13%)	2.2	2.2	2.4	2.5	2.5	2.6	2.6	2.6	2.4	2.0	2.2	2.3
Critical (25%)	2.2	2.3	2.5	2.6	2.6	2.3	2.5	2.4	2.3	1.9	2.4	2.5

Alternative 4 H1 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.2	4.8	5.3	5.6	6.0	6.1	5.5	4.9	4.2	4.1	4.2	4.5
20%	3.9	3.9	4.2	4.6	5.1	5.3	4.7	4.2	4.1	3.9	4.1	4.1
30%	3.9	3.9	4.1	4.2	4.8	4.7	4.0	4.1	3.9	3.9	4.0	4.0
40%	3.8	3.8	4.1	4.2	4.1	4.2	3.9	3.9	3.9	3.9	4.0	4.0
50%	3.7	3.7	4.1	4.1	4.0	4.0	3.9	3.9	3.8	3.9	3.9	4.0
60%	3.7	3.7	4.0	4.1	4.0	3.9	3.8	3.8	3.7	3.8	3.8	4.0
70%	3.7	3.7	4.0	4.0	3.8	3.8	3.8	3.8	3.7	3.8	3.7	3.9
80%	3.7	3.7	3.8	4.0	3.8	3.7	3.7	3.7	3.6	3.7	3.7	3.9
90%	3.6	3.5	3.6	3.8	3.7	3.5	3.5	3.7	3.5	3.6	3.6	3.8
Long Term												
Full Simulation Period[a]	3.8	4.0	4.3	4.4	4.6	4.7	4.2	4.2	3.9	3.9	3.9	4.1
Water Year Types[b]												
Wet (31%)	4.1	4.8	5.4	5.3	5.9	6.7	5.2	5.0	4.5	4.3	4.2	4.6
Above Normal (25%)	3.6	3.6	3.9	5.1	5.7	5.1	4.4	4.4	3.9	3.8	3.9	4.0
Below Normal (6%)	3.7	3.7	3.5	4.3	4.1	4.2	3.9	3.9	3.9	3.7	3.8	3.8
Dry (13%)	3.8	3.7	4.0	4.0	3.8	3.8	3.8	3.8	3.7	3.7	3.8	3.8
Critical (25%)	3.7	3.7	4.0	3.9	3.8	3.6	3.6	3.7	3.6	3.9	3.8	3.9

Alternative 4 H1 (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.5	1.3	1.4	1.4	1.3	1.4	1.2	1.1	0.3	0.7	1.4	1.3
20%	1.6	1.5	1.3	1.2	1.2	1.4	1.2	0.9	0.5	1.2	1.4	1.5
30%	1.5	1.6	1.4	1.2	1.4	1.6	1.1	1.2	0.7	1.3	1.4	1.5
40%	1.5	1.5	1.5	1.3	1.0	1.4	1.1	1.1	1.3	1.7	1.5	1.5
50%	1.5	1.6	1.6	1.3	1.2	1.2	1.1	1.2	1.3	1.8	1.4	1.6
60%	1.6	1.5	1.6	1.3	1.3	1.2	1.2	1.3	1.3	1.8	1.4	1.6
70%	1.6	1.6	1.7	1.4	1.3	1.2	1.1	1.3	1.3	1.8	1.4	1.6
80%	1.6	1.7	1.6	1.4	1.3	1.2	1.1	1.3	1.3	1.9	1.5	1.6
90%	1.5	1.5	1.5	1.5	1.3	1.4	1.2	1.3	1.3	1.8	1.5	1.6
Long Term												
Full Simulation Period[a]	1.5	1.5	1.5	1.3	1.3	1.4	1.1	1.2	1.0	1.5	1.4	1.5
Water Year Types[b]												
Wet (31%)	1.5	1.4	1.5	1.3	1.3	1.4	1.1	1.1	0.6	0.8	1.2	1.4
Above Normal (25%)	1.5	1.5	1.6	1.3	1.5	1.6	1.1	1.3	0.3	0.8	1.3	1.7
Below Normal (6%)	1.8	1.6	1.3	1.3	1.1	1.3	1.0	1.0	1.3	1.9	1.5	1.6
Dry (13%)	1.5	1.5	1.6	1.4	1.3	1.2	1.2	1.2	1.3	1.7	1.6	1.6
Critical (25%)	1.5	1.5	1.5	1.3	1.2	1.3	1.2	1.3	1.3	2.0	1.5	1.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-27-1-6. Old River at Tracy Blvd, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	2.6	3.5	3.9	4.2	4.7	4.7	4.3	3.8	3.8	3.4	2.8	3.2
20%	2.3	2.4	2.9	3.4	3.8	3.8	3.5	3.2	3.6	2.7	2.7	2.6
30%	2.3	2.3	2.7	3.0	3.4	3.1	2.9	3.0	3.2	2.5	2.6	2.5
40%	2.3	2.3	2.5	2.9	3.1	2.9	2.8	2.8	2.5	2.1	2.5	2.5
50%	2.2	2.2	2.5	2.9	2.8	2.8	2.7	2.8	2.5	2.1	2.4	2.4
60%	2.1	2.2	2.4	2.8	2.7	2.7	2.7	2.6	2.4	2.0	2.3	2.4
70%	2.1	2.1	2.3	2.6	2.5	2.5	2.6	2.5	2.3	2.0	2.3	2.3
80%	2.1	2.0	2.2	2.5	2.5	2.4	2.6	2.5	2.3	1.9	2.2	2.3
90%	2.1	2.0	2.2	2.4	2.4	2.1	2.3	2.4	2.2	1.8	2.1	2.2
Long Term												
Full Simulation Period[a]	2.3	2.5	2.8	3.1	3.3	3.3	3.0	3.0	2.9	2.4	2.5	2.6
Water Year Types[b]												
Wet (31%)	2.6	3.4	3.8	4.0	4.6	5.2	4.1	3.9	4.0	3.4	3.0	3.2
Above Normal (25%)	2.2	2.0	2.3	3.8	4.2	3.5	3.3	3.1	3.6	3.0	2.5	2.3
Below Normal (6%)	1.9	2.1	2.2	2.9	2.9	3.0	2.9	2.9	2.5	1.9	2.2	2.2
Dry (13%)	2.2	2.2	2.4	2.5	2.5	2.6	2.6	2.6	2.4	2.0	2.2	2.3
Critical (25%)	2.2	2.3	2.5	2.6	2.6	2.3	2.5	2.4	2.3	1.9	2.4	2.5

Alternative 4 H2 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	4.2	4.8	5.3	5.6	6.0	6.2	5.5	4.9	4.3	4.3	4.2	4.5
20%	3.9	3.9	4.2	4.6	5.2	5.3	4.7	4.3	4.2	4.2	4.1	4.3
30%	3.9	3.9	4.1	4.3	4.9	4.7	4.1	4.2	4.0	4.0	4.0	4.0
40%	3.8	3.8	4.1	4.2	4.1	4.1	4.1	4.0	3.8	3.9	4.0	4.0
50%	3.7	3.7	4.1	4.1	4.0	4.0	4.0	4.0	3.8	3.9	3.9	4.0
60%	3.7	3.7	4.0	4.1	4.0	3.9	3.9	4.0	3.8	3.8	3.9	3.9
70%	3.7	3.7	3.9	4.0	3.8	3.8	3.8	3.8	3.7	3.8	3.7	3.9
80%	3.6	3.6	3.8	4.0	3.8	3.7	3.7	3.7	3.7	3.8	3.7	3.9
90%	3.6	3.5	3.8	3.9	3.7	3.5	3.6	3.6	3.6	3.7	3.6	3.8
Long Term												
Full Simulation Period[a]	3.8	3.9	4.3	4.5	4.6	4.7	4.3	4.2	4.0	4.0	3.9	4.1
Water Year Types[b]												
Wet (31%)	4.2	4.7	5.3	5.3	5.9	6.7	5.3	5.0	4.7	4.4	4.2	4.7
Above Normal (25%)	3.7	3.6	4.0	5.1	5.8	5.1	4.5	4.4	3.9	4.1	3.9	4.0
Below Normal (6%)	3.6	3.7	3.8	4.3	4.1	4.1	3.9	4.0	3.7	3.7	3.9	3.8
Dry (13%)	3.8	3.7	4.0	4.0	3.8	3.8	3.9	3.8	3.8	3.7	3.8	3.9
Critical (25%)	3.7	3.7	4.0	4.0	3.8	3.6	3.7	3.8	3.6	3.9	3.8	3.9

Alternative 4 H2 (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.5	1.3	1.4	1.4	1.3	1.5	1.2	1.1	0.5	0.9	1.4	1.3
20%	1.6	1.5	1.3	1.2	1.4	1.4	1.2	1.0	0.6	1.5	1.4	1.7
30%	1.5	1.6	1.4	1.3	1.5	1.6	1.2	1.2	0.7	1.5	1.4	1.5
40%	1.5	1.5	1.5	1.3	1.0	1.2	1.3	1.2	1.3	1.8	1.5	1.5
50%	1.5	1.5	1.6	1.3	1.2	1.2	1.3	1.2	1.3	1.8	1.5	1.6
60%	1.6	1.5	1.7	1.3	1.3	1.2	1.3	1.4	1.3	1.8	1.5	1.5
70%	1.6	1.6	1.6	1.4	1.3	1.3	1.2	1.3	1.4	1.8	1.5	1.6
80%	1.5	1.6	1.6	1.5	1.3	1.3	1.2	1.3	1.4	1.9	1.5	1.6
90%	1.5	1.5	1.6	1.6	1.3	1.4	1.2	1.3	1.4	2.0	1.5	1.6
Long Term												
Full Simulation Period[a]	1.5	1.5	1.5	1.4	1.3	1.4	1.2	1.2	1.1	1.5	1.4	1.5
Water Year Types[b]												
Wet (31%)	1.6	1.3	1.5	1.3	1.3	1.5	1.2	1.1	0.7	1.0	1.2	1.4
Above Normal (25%)	1.5	1.5	1.6	1.3	1.6	1.6	1.2	1.3	0.3	1.1	1.4	1.7
Below Normal (6%)	1.8	1.6	1.6	1.3	1.2	1.1	1.0	1.1	1.2	1.8	1.6	1.6
Dry (13%)	1.5	1.5	1.6	1.4	1.3	1.2	1.2	1.3	1.4	1.7	1.6	1.6
Critical (25%)	1.5	1.5	1.5	1.4	1.2	1.3	1.2	1.3	1.3	2.0	1.4	1.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-27-1-7. Old River at Tracy Blvd, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.6	3.5	3.9	4.2	4.7	4.7	4.3	3.8	3.8	3.4	2.8	3.2
20%	2.3	2.4	2.9	3.4	3.8	3.8	3.5	3.2	3.6	2.7	2.7	2.6
30%	2.3	2.3	2.7	3.0	3.4	3.1	2.9	3.0	3.2	2.5	2.6	2.5
40%	2.3	2.3	2.5	2.9	3.1	2.9	2.8	2.8	2.5	2.1	2.5	2.5
50%	2.2	2.2	2.5	2.9	2.8	2.8	2.7	2.8	2.5	2.1	2.4	2.4
60%	2.1	2.2	2.4	2.8	2.7	2.7	2.7	2.6	2.4	2.0	2.3	2.4
70%	2.1	2.1	2.3	2.6	2.5	2.5	2.6	2.5	2.3	2.0	2.3	2.3
80%	2.1	2.0	2.2	2.5	2.5	2.4	2.6	2.5	2.3	1.9	2.2	2.3
90%	2.1	2.0	2.2	2.4	2.4	2.1	2.3	2.4	2.2	1.8	2.1	2.2
Long Term												
Full Simulation Period[a]	2.3	2.5	2.8	3.1	3.3	3.3	3.0	3.0	2.9	2.4	2.5	2.6
Water Year Types[b]												
Wet (31%)	2.6	3.4	3.8	4.0	4.6	5.2	4.1	3.9	4.0	3.4	3.0	3.2
Above Normal (25%)	2.2	2.0	2.3	3.8	4.2	3.5	3.3	3.1	3.6	3.0	2.5	2.3
Below Normal (6%)	1.9	2.1	2.2	2.9	2.9	3.0	2.9	2.9	2.5	1.9	2.2	2.2
Dry (13%)	2.2	2.2	2.4	2.5	2.5	2.6	2.6	2.6	2.4	2.0	2.2	2.3
Critical (25%)	2.2	2.3	2.5	2.6	2.6	2.3	2.5	2.4	2.3	1.9	2.4	2.5

Alternative 4 H3 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	4.9	5.2	5.6	5.9	6.1	5.5	4.9	4.2	4.1	4.2	4.9
20%	4.0	4.1	4.1	4.6	5.0	5.3	4.7	4.2	4.1	4.0	4.1	4.6
30%	3.9	4.0	4.1	4.2	4.8	4.7	4.1	4.1	3.9	3.9	4.1	4.3
40%	3.8	4.0	4.1	4.2	4.1	4.1	4.0	3.9	3.8	3.9	4.0	4.0
50%	3.8	3.9	4.0	4.2	4.0	4.0	3.9	3.9	3.8	3.8	3.9	4.0
60%	3.7	3.8	4.0	4.1	4.0	3.9	3.8	3.8	3.7	3.8	3.8	4.0
70%	3.7	3.7	3.9	4.1	3.8	3.8	3.8	3.8	3.6	3.8	3.7	3.9
80%	3.7	3.7	3.8	4.0	3.8	3.7	3.7	3.7	3.6	3.7	3.7	3.9
90%	3.7	3.6	3.7	3.9	3.7	3.4	3.5	3.6	3.5	3.6	3.6	3.7
Long Term												
Full Simulation Period[a]	3.9	4.1	4.3	4.5	4.6	4.6	4.2	4.2	3.9	3.9	3.9	4.2
Water Year Types[b]												
Wet (31%)	4.2	4.7	5.3	5.3	5.9	6.7	5.2	5.0	4.5	4.3	4.3	4.9
Above Normal (25%)	3.6	3.6	3.9	5.1	5.6	5.1	4.4	4.4	3.9	3.8	3.9	4.3
Below Normal (6%)	3.7	4.1	3.6	4.2	4.1	4.1	3.9	3.9	3.7	3.7	3.8	3.8
Dry (13%)	3.9	3.9	4.0	4.0	3.8	3.8	3.8	3.8	3.7	3.7	3.8	3.8
Critical (25%)	3.8	3.8	3.9	4.0	3.8	3.6	3.7	3.7	3.6	3.8	3.8	3.9

Alternative 4 H3 (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.8	1.4	1.4	1.4	1.2	1.4	1.2	1.1	0.3	0.7	1.4	1.7
20%	1.7	1.7	1.3	1.2	1.2	1.4	1.2	0.9	0.5	1.3	1.4	2.0
30%	1.6	1.7	1.4	1.2	1.4	1.6	1.2	1.2	0.7	1.4	1.5	1.7
40%	1.5	1.7	1.5	1.3	1.0	1.2	1.2	1.1	1.3	1.7	1.5	1.6
50%	1.5	1.7	1.6	1.3	1.2	1.2	1.2	1.2	1.3	1.8	1.4	1.6
60%	1.6	1.6	1.6	1.3	1.3	1.2	1.2	1.3	1.3	1.8	1.4	1.6
70%	1.6	1.6	1.6	1.4	1.3	1.2	1.1	1.3	1.3	1.8	1.4	1.6
80%	1.6	1.7	1.6	1.5	1.3	1.2	1.1	1.3	1.3	1.9	1.5	1.6
90%	1.6	1.6	1.6	1.5	1.3	1.4	1.2	1.3	1.3	1.8	1.5	1.5
Long Term												
Full Simulation Period[a]	1.6	1.6	1.5	1.4	1.3	1.3	1.2	1.2	1.0	1.5	1.4	1.6
Water Year Types[b]												
Wet (31%)	1.6	1.3	1.5	1.3	1.3	1.4	1.1	1.1	0.6	0.9	1.2	1.7
Above Normal (25%)	1.5	1.5	1.6	1.3	1.4	1.6	1.1	1.3	0.3	0.8	1.3	2.0
Below Normal (6%)	1.8	2.0	1.5	1.3	1.2	1.1	1.0	1.0	1.2	1.9	1.5	1.6
Dry (13%)	1.6	1.8	1.6	1.4	1.3	1.2	1.2	1.2	1.4	1.7	1.6	1.5
Critical (25%)	1.6	1.6	1.5	1.4	1.2	1.3	1.2	1.3	1.3	2.0	1.5	1.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-27-1-8. Old River at Tracy Blvd, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.6	3.5	3.9	4.2	4.7	4.7	4.3	3.8	3.8	3.4	2.8	3.2
20%	2.3	2.4	2.9	3.4	3.8	3.8	3.5	3.2	3.6	2.7	2.7	2.6
30%	2.3	2.3	2.7	3.0	3.4	3.1	2.9	3.0	3.2	2.5	2.6	2.5
40%	2.3	2.3	2.5	2.9	3.1	2.9	2.8	2.8	2.5	2.1	2.5	2.5
50%	2.2	2.2	2.5	2.9	2.8	2.8	2.7	2.8	2.5	2.1	2.4	2.4
60%	2.1	2.2	2.4	2.8	2.7	2.7	2.7	2.6	2.4	2.0	2.3	2.4
70%	2.1	2.1	2.3	2.6	2.5	2.5	2.6	2.5	2.3	2.0	2.3	2.3
80%	2.1	2.0	2.2	2.5	2.5	2.4	2.6	2.5	2.3	1.9	2.2	2.3
90%	2.1	2.0	2.2	2.4	2.4	2.1	2.3	2.4	2.2	1.8	2.1	2.2
Long Term												
Full Simulation Period[a]	2.3	2.5	2.8	3.1	3.3	3.3	3.0	3.0	2.9	2.4	2.5	2.6
Water Year Types[b]												
Wet (31%)	2.6	3.4	3.8	4.0	4.6	5.2	4.1	3.9	4.0	3.4	3.0	3.2
Above Normal (25%)	2.2	2.0	2.3	3.8	4.2	3.5	3.3	3.1	3.6	3.0	2.5	2.3
Below Normal (6%)	1.9	2.1	2.2	2.9	2.9	3.0	2.9	2.9	2.5	1.9	2.2	2.2
Dry (13%)	2.2	2.2	2.4	2.5	2.5	2.6	2.6	2.6	2.4	2.0	2.2	2.3
Critical (25%)	2.2	2.3	2.5	2.6	2.6	2.3	2.5	2.4	2.3	1.9	2.4	2.5

Alternative 4 H4 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	4.9	5.2	5.7	5.9	6.2	5.5	4.9	4.3	4.3	4.2	4.9
20%	4.1	4.1	4.1	4.6	5.2	5.3	4.7	4.3	4.2	4.2	4.1	4.6
30%	3.9	4.1	4.1	4.4	4.8	4.7	4.1	4.1	4.0	4.0	4.0	4.3
40%	3.8	4.0	4.1	4.2	4.1	4.1	4.1	4.0	3.8	3.9	3.9	4.0
50%	3.7	3.9	4.0	4.2	4.0	4.0	4.0	4.0	3.8	3.9	3.9	4.0
60%	3.7	3.8	3.9	4.1	3.9	3.9	3.9	4.0	3.8	3.8	3.7	3.9
70%	3.7	3.8	3.9	4.1	3.8	3.8	3.8	3.8	3.7	3.8	3.7	3.9
80%	3.7	3.7	3.8	4.0	3.8	3.7	3.8	3.8	3.7	3.8	3.7	3.9
90%	3.6	3.6	3.7	3.9	3.7	3.5	3.5	3.6	3.6	3.7	3.6	3.7
Long Term												
Full Simulation Period[a]	3.9	4.1	4.3	4.5	4.6	4.7	4.3	4.2	4.0	4.0	3.9	4.2
Water Year Types[b]												
Wet (31%)	4.2	4.7	5.3	5.4	5.9	6.7	5.3	5.0	4.7	4.4	4.2	5.0
Above Normal (25%)	3.6	3.6	3.9	5.2	5.6	5.1	4.5	4.4	3.9	4.1	3.9	4.3
Below Normal (6%)	3.7	4.1	3.6	4.3	4.1	4.1	3.9	4.0	3.9	3.7	3.7	3.7
Dry (13%)	3.9	3.9	4.0	4.0	3.8	3.8	3.9	3.8	3.8	3.8	3.8	3.8
Critical (25%)	3.8	3.9	3.9	4.0	3.8	3.6	3.7	3.8	3.6	3.8	3.8	3.9

Alternative 4 H4 (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.8	1.4	1.4	1.5	1.2	1.5	1.2	1.1	0.5	0.9	1.4	1.8
20%	1.7	1.7	1.3	1.2	1.4	1.4	1.2	1.0	0.6	1.5	1.4	2.0
30%	1.6	1.8	1.4	1.4	1.4	1.6	1.2	1.2	0.8	1.5	1.4	1.8
40%	1.5	1.7	1.5	1.3	1.0	1.2	1.3	1.2	1.3	1.8	1.5	1.6
50%	1.5	1.7	1.6	1.3	1.2	1.2	1.3	1.2	1.3	1.8	1.4	1.6
60%	1.6	1.7	1.5	1.3	1.3	1.2	1.3	1.4	1.4	1.9	1.4	1.5
70%	1.6	1.7	1.6	1.4	1.3	1.3	1.2	1.3	1.4	1.8	1.4	1.6
80%	1.6	1.7	1.6	1.5	1.3	1.3	1.2	1.3	1.4	1.9	1.5	1.6
90%	1.6	1.6	1.5	1.5	1.3	1.4	1.2	1.3	1.4	1.9	1.5	1.5
Long Term												
Full Simulation Period[a]	1.6	1.6	1.5	1.4	1.3	1.4	1.2	1.2	1.1	1.6	1.4	1.6
Water Year Types[b]												
Wet (31%)	1.6	1.2	1.5	1.4	1.3	1.5	1.2	1.1	0.7	1.0	1.2	1.7
Above Normal (25%)	1.5	1.5	1.6	1.4	1.5	1.6	1.2	1.3	0.3	1.1	1.4	2.0
Below Normal (6%)	1.8	2.1	1.4	1.3	1.2	1.1	1.0	1.1	1.4	1.9	1.5	1.5
Dry (13%)	1.6	1.8	1.6	1.4	1.3	1.2	1.3	1.3	1.4	1.8	1.6	1.6
Critical (25%)	1.5	1.6	1.4	1.4	1.2	1.3	1.2	1.3	1.3	2.0	1.4	1.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-27-1-9. Old River at Tracy Blvd, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.6	3.5	3.9	4.2	4.7	4.7	4.3	3.8	3.8	3.4	2.8	3.2
20%	2.3	2.4	2.9	3.4	3.8	3.8	3.5	3.2	3.6	2.7	2.7	2.6
30%	2.3	2.3	2.7	3.0	3.4	3.1	2.9	3.0	3.2	2.5	2.6	2.5
40%	2.3	2.3	2.5	2.9	3.1	2.9	2.8	2.8	2.5	2.1	2.5	2.5
50%	2.2	2.2	2.5	2.9	2.8	2.8	2.7	2.8	2.5	2.1	2.4	2.4
60%	2.1	2.2	2.4	2.8	2.7	2.7	2.7	2.6	2.4	2.0	2.3	2.4
70%	2.1	2.1	2.3	2.6	2.5	2.5	2.6	2.5	2.3	2.0	2.3	2.3
80%	2.1	2.0	2.2	2.5	2.5	2.4	2.6	2.5	2.3	1.9	2.2	2.3
90%	2.1	2.0	2.2	2.4	2.4	2.1	2.3	2.4	2.2	1.8	2.1	2.2
Long Term												
Full Simulation Period[a]	2.3	2.5	2.8	3.1	3.3	3.3	3.0	3.0	2.9	2.4	2.5	2.6
Water Year Types[b]												
Wet (31%)	2.6	3.4	3.8	4.0	4.6	5.2	4.1	3.9	4.0	3.4	3.0	3.2
Above Normal (25%)	2.2	2.0	2.3	3.8	4.2	3.5	3.3	3.1	3.6	3.0	2.5	2.3
Below Normal (6%)	1.9	2.1	2.2	2.9	2.9	3.0	2.9	2.9	2.5	1.9	2.2	2.2
Dry (13%)	2.2	2.2	2.4	2.5	2.5	2.6	2.6	2.6	2.4	2.0	2.2	2.3
Critical (25%)	2.2	2.3	2.5	2.6	2.6	2.3	2.5	2.4	2.3	1.9	2.4	2.5

Alternative 5 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	4.8	5.1	5.5	5.8	5.9	5.3	4.9	4.1	4.1	4.2	4.7
20%	4.2	4.1	4.0	4.6	4.9	5.2	4.7	4.4	4.0	4.0	4.1	4.3
30%	4.0	4.0	4.0	4.3	4.7	4.4	4.1	4.3	3.9	3.9	4.0	4.2
40%	3.7	3.9	4.0	4.2	4.1	4.1	4.0	4.1	3.8	3.9	4.0	4.0
50%	3.7	3.8	4.0	4.2	4.1	4.1	3.9	4.0	3.7	3.8	3.8	3.9
60%	3.7	3.7	3.8	4.1	4.0	4.0	3.9	3.9	3.7	3.7	3.7	3.9
70%	3.6	3.7	3.7	4.1	3.8	3.8	3.8	3.9	3.7	3.7	3.7	3.9
80%	3.6	3.6	3.5	4.0	3.8	3.7	3.8	3.8	3.6	3.6	3.7	3.9
90%	3.6	3.5	3.5	3.8	3.7	3.5	3.6	3.7	3.6	3.5	3.6	3.7
Long Term												
Full Simulation Period[a]	3.9	4.0	4.1	4.5	4.6	4.6	4.2	4.2	3.9	3.8	3.9	4.1
Water Year Types[b]												
Wet (31%)	4.1	4.6	5.1	5.2	5.7	6.5	5.2	4.9	4.5	4.2	4.1	4.7
Above Normal (25%)	3.6	3.4	3.9	5.1	5.5	4.8	4.5	4.5	3.9	3.8	3.9	4.1
Below Normal (6%)	3.6	4.1	3.5	4.3	4.1	4.1	4.1	4.1	3.7	3.4	3.7	3.7
Dry (13%)	3.9	3.9	3.7	3.9	3.9	3.9	3.8	3.9	3.8	3.7	3.8	3.9
Critical (25%)	3.8	3.8	3.9	4.0	3.9	3.6	3.7	3.8	3.6	3.7	3.8	3.9

Alternative 5 (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	1.3	1.3	1.3	1.1	1.2	1.0	1.1	0.3	0.7	1.4	1.6
20%	1.9	1.7	1.2	1.2	1.1	1.3	1.2	1.1	0.4	1.2	1.4	1.7
30%	1.6	1.7	1.3	1.3	1.3	1.3	1.2	1.3	0.7	1.4	1.4	1.6
40%	1.4	1.6	1.5	1.3	1.0	1.3	1.2	1.3	1.3	1.7	1.5	1.5
50%	1.5	1.6	1.5	1.3	1.3	1.2	1.2	1.3	1.3	1.7	1.4	1.5
60%	1.5	1.6	1.4	1.3	1.3	1.3	1.2	1.3	1.3	1.7	1.4	1.5
70%	1.5	1.6	1.5	1.5	1.3	1.3	1.2	1.4	1.3	1.7	1.4	1.6
80%	1.5	1.6	1.3	1.4	1.3	1.3	1.2	1.3	1.3	1.8	1.5	1.5
90%	1.5	1.5	1.3	1.4	1.3	1.4	1.2	1.4	1.4	1.7	1.5	1.5
Long Term												
Full Simulation Period[a]	1.6	1.5	1.4	1.4	1.2	1.3	1.2	1.3	1.0	1.4	1.4	1.5
Water Year Types[b]												
Wet (31%)	1.5	1.2	1.3	1.2	1.1	1.2	1.1	1.1	0.5	0.8	1.1	1.5
Above Normal (25%)	1.4	1.3	1.6	1.4	1.4	1.3	1.2	1.4	0.2	0.8	1.3	1.8
Below Normal (6%)	1.8	2.0	1.3	1.3	1.2	1.2	1.2	1.2	1.2	1.5	1.5	1.5
Dry (13%)	1.7	1.8	1.3	1.4	1.3	1.3	1.2	1.3	1.4	1.7	1.6	1.6
Critical (25%)	1.6	1.5	1.4	1.4	1.3	1.3	1.2	1.4	1.3	1.9	1.5	1.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-27-1-10. Old River at Tracy Blvd, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.6	3.5	3.9	4.2	4.7	4.7	4.3	3.8	3.8	3.4	2.8	3.2
20%	2.3	2.4	2.9	3.4	3.8	3.8	3.5	3.2	3.6	2.7	2.7	2.6
30%	2.3	2.3	2.7	3.0	3.4	3.1	2.9	3.0	3.2	2.5	2.6	2.5
40%	2.3	2.3	2.5	2.9	3.1	2.9	2.8	2.8	2.5	2.1	2.5	2.5
50%	2.2	2.2	2.5	2.9	2.8	2.8	2.7	2.8	2.5	2.1	2.4	2.4
60%	2.1	2.2	2.4	2.8	2.7	2.7	2.7	2.6	2.4	2.0	2.3	2.4
70%	2.1	2.1	2.3	2.6	2.5	2.5	2.6	2.5	2.3	2.0	2.3	2.3
80%	2.1	2.0	2.2	2.5	2.5	2.4	2.6	2.5	2.3	1.9	2.2	2.3
90%	2.1	2.0	2.2	2.4	2.4	2.1	2.3	2.4	2.2	1.8	2.1	2.2
Long Term												
Full Simulation Period[a]	2.3	2.5	2.8	3.1	3.3	3.3	3.0	3.0	2.9	2.4	2.5	2.6
Water Year Types[b]												
Wet (31%)	2.6	3.4	3.8	4.0	4.6	5.2	4.1	3.9	4.0	3.4	3.0	3.2
Above Normal (25%)	2.2	2.0	2.3	3.8	4.2	3.5	3.3	3.1	3.6	3.0	2.5	2.3
Below Normal (6%)	1.9	2.1	2.2	2.9	2.9	3.0	2.9	2.9	2.5	1.9	2.2	2.2
Dry (13%)	2.2	2.2	2.4	2.5	2.5	2.6	2.6	2.6	2.4	2.0	2.2	2.3
Critical (25%)	2.2	2.3	2.5	2.6	2.6	2.3	2.5	2.4	2.3	1.9	2.4	2.5

Alternative 6A,6B,6C (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.7	5.1	5.5	5.8	6.2	6.3	5.6	5.1	4.7	4.8	4.7	4.9
20%	4.4	4.5	4.7	5.0	5.4	5.3	4.9	4.6	4.5	4.6	4.6	4.7
30%	4.4	4.5	4.5	4.8	5.1	4.9	4.3	4.5	4.5	4.5	4.6	4.5
40%	4.3	4.3	4.5	4.6	4.7	4.6	4.2	4.4	4.3	4.5	4.5	4.5
50%	4.3	4.3	4.4	4.5	4.4	4.3	4.2	4.3	4.3	4.5	4.5	4.5
60%	4.2	4.3	4.4	4.4	4.3	4.2	4.1	4.2	4.2	4.5	4.4	4.4
70%	4.2	4.2	4.3	4.4	4.2	4.1	4.1	4.2	4.2	4.4	4.4	4.3
80%	4.2	4.2	4.3	4.3	4.2	4.0	4.0	4.1	4.1	4.3	4.3	4.3
90%	4.2	4.1	4.2	4.2	4.1	3.9	3.8	4.0	4.1	4.2	4.3	4.3
Long Term												
Full Simulation Period[a]	4.4	4.5	4.7	4.8	4.9	4.9	4.5	4.5	4.4	4.5	4.5	4.5
Water Year Types[b]												
Wet (31%)	4.6	5.0	5.6	5.5	6.2	6.8	5.4	5.2	4.9	4.9	4.8	5.0
Above Normal (25%)	4.1	4.1	4.4	5.5	5.9	5.2	4.7	4.7	4.4	4.5	4.5	4.4
Below Normal (6%)	4.2	4.3	4.2	4.8	4.7	4.7	4.3	4.4	4.2	4.2	4.3	4.3
Dry (13%)	4.3	4.3	4.4	4.3	4.2	4.2	4.1	4.2	4.3	4.5	4.4	4.4
Critical (25%)	4.3	4.3	4.4	4.3	4.2	3.9	3.9	4.1	4.1	4.4	4.4	4.4

Alternative 6A,6B,6C (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.1	1.5	1.7	1.6	1.6	1.6	1.3	1.3	0.8	1.4	1.9	1.8
20%	2.1	2.1	1.8	1.6	1.6	1.4	1.4	1.4	1.0	1.9	1.9	2.1
30%	2.1	2.2	1.9	1.8	1.7	1.8	1.4	1.6	1.2	2.0	2.0	2.0
40%	2.0	2.1	2.0	1.6	1.6	1.7	1.4	1.5	1.8	2.4	2.1	2.0
50%	2.0	2.1	2.0	1.6	1.6	1.5	1.4	1.6	1.8	2.4	2.1	2.1
60%	2.1	2.2	2.0	1.6	1.6	1.6	1.5	1.6	1.8	2.5	2.1	2.0
70%	2.1	2.1	2.1	1.7	1.7	1.6	1.5	1.7	1.9	2.5	2.1	2.0
80%	2.1	2.2	2.0	1.7	1.8	1.5	1.5	1.7	1.9	2.5	2.1	2.0
90%	2.1	2.1	2.0	1.8	1.7	1.8	1.5	1.6	1.9	2.4	2.2	2.1
Long Term												
Full Simulation Period[a]	2.1	2.0	1.9	1.7	1.6	1.6	1.4	1.5	1.5	2.1	2.0	2.0
Water Year Types[b]												
Wet (31%)	2.0	1.6	1.8	1.6	1.5	1.6	1.3	1.3	1.0	1.5	1.7	1.7
Above Normal (25%)	2.0	2.1	2.1	1.8	1.8	1.7	1.4	1.6	0.8	1.5	2.0	2.1
Below Normal (6%)	2.3	2.2	2.0	1.9	1.8	1.7	1.4	1.4	1.7	2.3	2.0	2.1
Dry (13%)	2.1	2.1	2.0	1.8	1.7	1.6	1.5	1.7	1.9	2.5	2.3	2.1
Critical (25%)	2.0	2.0	1.9	1.7	1.6	1.6	1.4	1.6	1.9	2.5	2.0	1.9

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-27-1-11. Old River at Tracy Blvd, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	2.6	3.5	3.9	4.2	4.7	4.7	4.3	3.8	3.8	3.4	2.8	3.2
20%	2.3	2.4	2.9	3.4	3.8	3.8	3.5	3.2	3.6	2.7	2.7	2.6
30%	2.3	2.3	2.7	3.0	3.4	3.1	2.9	3.0	3.2	2.5	2.6	2.5
40%	2.3	2.3	2.5	2.9	3.1	2.9	2.8	2.8	2.5	2.1	2.5	2.5
50%	2.2	2.2	2.5	2.9	2.8	2.8	2.7	2.8	2.5	2.1	2.4	2.4
60%	2.1	2.2	2.4	2.8	2.7	2.7	2.7	2.6	2.4	2.0	2.3	2.4
70%	2.1	2.1	2.3	2.6	2.5	2.5	2.6	2.5	2.3	2.0	2.3	2.3
80%	2.1	2.0	2.2	2.5	2.5	2.4	2.6	2.5	2.3	1.9	2.2	2.3
90%	2.1	2.0	2.2	2.4	2.4	2.1	2.3	2.4	2.2	1.8	2.1	2.2
Long Term												
Full Simulation Period[a]	2.3	2.5	2.8	3.1	3.3	3.3	3.0	3.0	2.9	2.4	2.5	2.6
Water Year Types[b]												
Wet (31%)	2.6	3.4	3.8	4.0	4.6	5.2	4.1	3.9	4.0	3.4	3.0	3.2
Above Normal (25%)	2.2	2.0	2.3	3.8	4.2	3.5	3.3	3.1	3.6	3.0	2.5	2.3
Below Normal (6%)	1.9	2.1	2.2	2.9	2.9	3.0	2.9	2.9	2.5	1.9	2.2	2.2
Dry (13%)	2.2	2.2	2.4	2.5	2.5	2.6	2.6	2.6	2.4	2.0	2.2	2.3
Critical (25%)	2.2	2.3	2.5	2.6	2.6	2.3	2.5	2.4	2.3	1.9	2.4	2.5

Alternative 7 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	4.7	5.1	5.3	5.7	5.8	6.0	5.6	5.1	4.7	4.2	4.2	5.0
20%	4.4	4.5	4.7	4.9	5.1	5.3	4.9	4.6	4.5	4.1	4.1	4.7
30%	4.4	4.5	4.5	4.7	4.9	4.7	4.3	4.5	4.5	4.0	4.1	4.4
40%	4.3	4.3	4.5	4.5	4.5	4.4	4.2	4.4	4.3	3.9	4.0	4.2
50%	4.2	4.3	4.4	4.5	4.4	4.3	4.2	4.3	4.3	3.9	4.0	4.1
60%	4.2	4.3	4.4	4.4	4.3	4.2	4.1	4.2	4.2	3.9	4.0	4.1
70%	4.2	4.3	4.3	4.4	4.2	4.1	4.1	4.2	4.2	3.8	3.9	4.1
80%	4.2	4.2	4.3	4.3	4.2	4.0	4.0	4.1	4.2	3.8	3.9	3.9
90%	4.2	4.1	4.2	4.2	4.1	3.9	3.9	4.0	4.1	3.7	3.8	3.8
Long Term												
Full Simulation Period[a]	4.3	4.5	4.6	4.7	4.8	4.8	4.5	4.5	4.4	4.0	4.0	4.3
Water Year Types[b]												
Wet (31%)	4.6	5.0	5.5	5.4	6.0	6.6	5.4	5.2	4.9	4.3	4.2	5.0
Above Normal (25%)	4.1	4.2	4.4	5.4	5.6	5.1	4.7	4.7	4.4	3.9	3.9	4.4
Below Normal (6%)	4.2	4.3	4.2	4.7	4.5	4.4	4.3	4.4	4.2	3.5	3.8	3.8
Dry (13%)	4.3	4.3	4.4	4.3	4.2	4.2	4.1	4.2	4.3	3.8	4.0	4.0
Critical (25%)	4.3	4.3	4.4	4.3	4.2	3.9	3.9	4.1	4.2	4.0	4.0	4.0

Alternative 7 (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	2.1	1.5	1.5	1.5	1.1	1.3	1.3	1.3	0.8	0.8	1.4	1.8
20%	2.1	2.1	1.8	1.5	1.3	1.4	1.4	1.4	1.0	1.4	1.5	2.1
30%	2.1	2.2	1.9	1.7	1.5	1.6	1.4	1.6	1.2	1.5	1.5	1.9
40%	2.0	2.1	2.0	1.6	1.4	1.6	1.4	1.5	1.8	1.8	1.6	1.7
50%	2.0	2.1	2.0	1.6	1.6	1.5	1.5	1.6	1.8	1.8	1.6	1.7
60%	2.1	2.1	2.0	1.6	1.6	1.6	1.5	1.6	1.8	1.9	1.6	1.7
70%	2.1	2.1	2.0	1.7	1.7	1.6	1.5	1.7	1.9	1.9	1.6	1.7
80%	2.1	2.2	2.0	1.7	1.7	1.5	1.5	1.7	1.9	1.9	1.7	1.6
90%	2.1	2.1	2.0	1.8	1.7	1.8	1.5	1.6	1.9	1.9	1.7	1.6
Long Term												
Full Simulation Period[a]	2.0	2.0	1.9	1.6	1.5	1.5	1.4	1.6	1.5	1.5	1.5	1.7
Water Year Types[b]												
Wet (31%)	2.0	1.6	1.6	1.4	1.3	1.4	1.4	1.3	0.9	0.9	1.2	1.7
Above Normal (25%)	2.0	2.1	2.1	1.6	1.4	1.5	1.4	1.6	0.8	0.9	1.4	2.1
Below Normal (6%)	2.3	2.2	2.0	1.7	1.6	1.5	1.4	1.4	1.7	1.6	1.5	1.7
Dry (13%)	2.1	2.1	2.0	1.8	1.7	1.6	1.5	1.7	1.9	1.8	1.8	1.7
Critical (25%)	2.0	2.0	1.9	1.7	1.6	1.6	1.5	1.6	1.9	2.1	1.6	1.6

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-27-1-12. Old River at Tracy Blvd, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	2.6	3.5	3.9	4.2	4.7	4.7	4.3	3.8	3.8	3.4	2.8	3.2
20%	2.3	2.4	2.9	3.4	3.8	3.8	3.5	3.2	3.6	2.7	2.7	2.6
30%	2.3	2.3	2.7	3.0	3.4	3.1	2.9	3.0	3.2	2.5	2.6	2.5
40%	2.3	2.3	2.5	2.9	3.1	2.9	2.8	2.8	2.5	2.1	2.5	2.5
50%	2.2	2.2	2.5	2.9	2.8	2.8	2.7	2.8	2.5	2.1	2.4	2.4
60%	2.1	2.2	2.4	2.8	2.7	2.7	2.7	2.6	2.4	2.0	2.3	2.4
70%	2.1	2.1	2.3	2.6	2.5	2.5	2.6	2.5	2.3	2.0	2.3	2.3
80%	2.1	2.0	2.2	2.5	2.5	2.4	2.6	2.5	2.3	1.9	2.2	2.3
90%	2.1	2.0	2.2	2.4	2.4	2.1	2.3	2.4	2.2	1.8	2.1	2.2
Long Term												
Full Simulation Period[a]	2.3	2.5	2.8	3.1	3.3	3.3	3.0	3.0	2.9	2.4	2.5	2.6
Water Year Types[b]												
Wet (31%)	2.6	3.4	3.8	4.0	4.6	5.2	4.1	3.9	4.0	3.4	3.0	3.2
Above Normal (25%)	2.2	2.0	2.3	3.8	4.2	3.5	3.3	3.1	3.6	3.0	2.5	2.3
Below Normal (6%)	1.9	2.1	2.2	2.9	2.9	3.0	2.9	2.9	2.5	1.9	2.2	2.2
Dry (13%)	2.2	2.2	2.4	2.5	2.5	2.6	2.6	2.6	2.4	2.0	2.2	2.3
Critical (25%)	2.2	2.3	2.5	2.6	2.6	2.3	2.5	2.4	2.3	1.9	2.4	2.5

Alternative 8 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	4.7	5.1	5.4	5.6	5.9	6.0	5.6	5.1	4.7	4.5	4.2	5.0
20%	4.4	4.5	4.7	4.9	5.2	5.3	4.9	4.6	4.5	4.4	4.1	4.7
30%	4.4	4.5	4.5	4.7	4.9	4.7	4.3	4.5	4.5	4.3	4.1	4.4
40%	4.3	4.3	4.5	4.6	4.5	4.5	4.2	4.4	4.3	4.3	4.1	4.3
50%	4.2	4.3	4.4	4.5	4.4	4.3	4.2	4.3	4.3	4.2	4.0	4.2
60%	4.2	4.3	4.4	4.4	4.3	4.3	4.1	4.2	4.2	4.1	4.0	4.1
70%	4.2	4.3	4.3	4.4	4.2	4.1	4.1	4.2	4.2	4.0	4.0	4.1
80%	4.2	4.2	4.3	4.3	4.2	4.0	4.0	4.1	4.2	3.9	3.9	4.0
90%	4.2	4.1	4.2	4.2	4.1	3.9	3.9	4.0	4.1	3.8	3.8	3.9
Long Term												
Full Simulation Period[a]	4.3	4.5	4.6	4.7	4.8	4.8	4.5	4.5	4.4	4.2	4.0	4.3
Water Year Types[b]												
Wet (31%)	4.6	5.0	5.4	5.4	5.9	6.7	5.5	5.2	4.9	4.5	4.2	5.0
Above Normal (25%)	4.1	4.1	4.4	5.3	5.7	5.1	4.7	4.7	4.4	4.2	4.0	4.4
Below Normal (6%)	4.2	4.3	4.2	4.7	4.5	4.5	4.3	4.4	4.2	3.8	3.7	3.9
Dry (13%)	4.3	4.3	4.4	4.3	4.2	4.2	4.1	4.2	4.3	4.2	4.0	4.0
Critical (25%)	4.3	4.3	4.4	4.3	4.2	3.9	3.9	4.1	4.2	4.0	4.0	4.1

Alternative 8 (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	2.1	1.6	1.5	1.4	1.2	1.3	1.3	1.3	0.8	1.1	1.4	1.8
20%	2.1	2.1	1.8	1.5	1.4	1.4	1.4	1.4	1.0	1.7	1.4	2.1
30%	2.1	2.2	1.8	1.7	1.5	1.6	1.4	1.6	1.2	1.8	1.5	1.9
40%	2.0	2.1	2.0	1.6	1.5	1.6	1.4	1.6	1.8	2.1	1.6	1.8
50%	2.0	2.1	2.0	1.6	1.6	1.5	1.5	1.6	1.8	2.1	1.6	1.7
60%	2.1	2.1	2.0	1.6	1.6	1.6	1.5	1.6	1.8	2.1	1.7	1.7
70%	2.1	2.1	2.0	1.7	1.7	1.6	1.5	1.7	1.9	2.1	1.7	1.7
80%	2.1	2.2	2.0	1.7	1.7	1.6	1.5	1.7	1.9	2.1	1.7	1.7
90%	2.1	2.1	2.0	1.8	1.7	1.8	1.5	1.7	1.9	2.0	1.7	1.7
Long Term												
Full Simulation Period[a]	2.0	2.0	1.9	1.6	1.5	1.5	1.4	1.6	1.5	1.7	1.5	1.8
Water Year Types[b]												
Wet (31%)	2.0	1.6	1.6	1.4	1.3	1.4	1.4	1.4	0.9	1.1	1.2	1.8
Above Normal (25%)	2.0	2.1	2.1	1.5	1.5	1.5	1.4	1.6	0.8	1.2	1.4	2.1
Below Normal (6%)	2.3	2.2	2.0	1.7	1.6	1.5	1.4	1.5	1.7	1.9	1.5	1.7
Dry (13%)	2.1	2.1	2.0	1.8	1.7	1.6	1.5	1.7	1.9	2.2	1.8	1.7
Critical (25%)	2.0	2.0	1.9	1.7	1.6	1.6	1.5	1.6	1.9	2.1	1.6	1.6

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-27-1-13. Old River at Tracy Blvd, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.6	3.5	3.9	4.2	4.7	4.7	4.3	3.8	3.8	3.4	2.8	3.2
20%	2.3	2.4	2.9	3.4	3.8	3.8	3.5	3.2	3.6	2.7	2.7	2.6
30%	2.3	2.3	2.7	3.0	3.4	3.1	2.9	3.0	3.2	2.5	2.6	2.5
40%	2.3	2.3	2.5	2.9	3.1	2.9	2.8	2.8	2.5	2.1	2.5	2.5
50%	2.2	2.2	2.5	2.9	2.8	2.8	2.7	2.8	2.5	2.1	2.4	2.4
60%	2.1	2.2	2.4	2.8	2.7	2.7	2.7	2.6	2.4	2.0	2.3	2.4
70%	2.1	2.1	2.3	2.6	2.5	2.5	2.6	2.5	2.3	2.0	2.3	2.3
80%	2.1	2.0	2.2	2.5	2.5	2.4	2.6	2.5	2.3	1.9	2.2	2.3
90%	2.1	2.0	2.2	2.4	2.4	2.1	2.3	2.4	2.2	1.8	2.1	2.2
Long Term												
Full Simulation Period[a]	2.3	2.5	2.8	3.1	3.3	3.3	3.0	3.0	2.9	2.4	2.5	2.6
Water Year Types[b]												
Wet (31%)	2.6	3.4	3.8	4.0	4.6	5.2	4.1	3.9	4.0	3.4	3.0	3.2
Above Normal (25%)	2.2	2.0	2.3	3.8	4.2	3.5	3.3	3.1	3.6	3.0	2.5	2.3
Below Normal (6%)	1.9	2.1	2.2	2.9	2.9	3.0	2.9	2.9	2.5	1.9	2.2	2.2
Dry (13%)	2.2	2.2	2.4	2.5	2.5	2.6	2.6	2.6	2.4	2.0	2.2	2.3
Critical (25%)	2.2	2.3	2.5	2.6	2.6	2.3	2.5	2.4	2.3	1.9	2.4	2.5

Alternative 9 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.8	5.1	5.4	5.8	6.3	6.1	5.6	5.2	4.8	4.8	4.7	5.1
20%	4.6	4.7	4.7	5.1	5.5	5.3	4.9	5.0	4.7	4.7	4.6	4.8
30%	4.4	4.5	4.5	5.0	5.2	5.1	4.6	4.7	4.6	4.6	4.6	4.5
40%	4.4	4.4	4.5	4.7	4.9	4.9	4.4	4.6	4.3	4.4	4.5	4.5
50%	4.4	4.4	4.4	4.6	4.5	4.4	4.3	4.5	4.3	4.4	4.4	4.5
60%	4.3	4.3	4.4	4.5	4.4	4.3	4.3	4.3	4.2	4.3	4.4	4.5
70%	4.3	4.3	4.3	4.4	4.3	4.2	4.1	4.3	4.1	4.3	4.3	4.3
80%	4.2	4.2	4.2	4.3	4.3	4.0	4.1	4.2	4.1	4.2	4.2	4.3
90%	4.2	4.1	4.2	4.2	4.1	3.9	3.9	4.0	4.0	4.1	4.1	4.2
Long Term												
Full Simulation Period[a]	4.4	4.5	4.7	4.9	5.0	5.0	4.5	4.6	4.4	4.5	4.5	4.6
Water Year Types[b]												
Wet (31%)	4.7	4.9	5.5	5.6	6.2	6.9	5.5	5.4	5.0	4.9	4.8	5.2
Above Normal (25%)	4.1	4.2	4.4	5.6	6.0	5.3	4.8	4.9	4.6	4.7	4.5	4.5
Below Normal (6%)	4.3	4.4	4.2	5.0	4.9	4.9	4.5	4.7	4.3	4.1	4.3	4.3
Dry (13%)	4.5	4.4	4.4	4.4	4.3	4.3	4.2	4.3	4.2	4.3	4.4	4.4
Critical (25%)	4.3	4.3	4.4	4.3	4.2	3.9	3.9	4.1	4.0	4.2	4.3	4.3

Alternative 9 (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.1	1.5	1.6	1.7	1.6	1.5	1.3	1.4	1.0	1.4	1.9	1.9
20%	2.3	2.2	1.8	1.7	1.7	1.4	1.4	1.7	1.2	2.0	1.9	2.2
30%	2.1	2.2	1.9	2.0	1.8	2.0	1.7	1.7	1.3	2.1	2.0	2.0
40%	2.1	2.2	2.0	1.7	1.8	2.0	1.7	1.8	1.8	2.3	2.0	2.0
50%	2.1	2.2	2.0	1.7	1.6	1.5	1.6	1.7	1.8	2.3	2.0	2.1
60%	2.2	2.2	2.0	1.7	1.7	1.7	1.6	1.7	1.8	2.3	2.0	2.1
70%	2.2	2.2	2.0	1.7	1.8	1.7	1.5	1.8	1.8	2.3	2.0	2.0
80%	2.1	2.2	2.0	1.7	1.8	1.6	1.5	1.8	1.8	2.3	2.0	2.0
90%	2.1	2.1	2.0	1.8	1.7	1.8	1.5	1.6	1.8	2.3	2.1	2.0
Long Term												
Full Simulation Period[a]	2.1	2.0	1.9	1.8	1.7	1.7	1.5	1.7	1.5	2.0	2.0	2.0
Water Year Types[b]												
Wet (31%)	2.1	1.5	1.7	1.6	1.6	1.7	1.4	1.5	1.1	1.5	1.8	1.9
Above Normal (25%)	2.0	2.1	2.1	1.9	1.9	1.8	1.5	1.7	1.0	1.7	2.0	2.2
Below Normal (6%)	2.4	2.3	2.1	2.0	1.9	1.9	1.6	1.7	1.8	2.2	2.0	2.1
Dry (13%)	2.2	2.2	2.0	1.9	1.8	1.7	1.6	1.7	1.8	2.3	2.2	2.1
Critical (25%)	2.1	2.1	1.9	1.7	1.6	1.6	1.5	1.7	1.7	2.3	1.9	1.9

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-27-1-14. Old River at Tracy Blvd, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	5.0	5.6	6.0	6.2	6.2	5.8	5.3	4.5	4.5	4.4	4.7
20%	4.3	4.1	4.6	5.2	5.3	5.5	5.1	4.8	4.4	4.3	4.3	4.6
30%	4.2	4.0	4.5	4.8	5.1	4.7	4.5	4.7	4.3	4.2	4.2	4.3
40%	4.1	4.0	4.5	4.7	4.6	4.5	4.4	4.5	4.2	4.1	4.1	4.2
50%	4.0	3.9	4.4	4.6	4.5	4.5	4.3	4.4	4.1	4.0	4.1	4.1
60%	3.9	3.9	4.3	4.6	4.4	4.4	4.3	4.4	4.1	3.9	4.1	4.1
70%	3.9	3.8	4.2	4.4	4.2	4.3	4.3	4.3	4.1	3.8	4.0	4.1
80%	3.8	3.7	4.1	4.3	4.2	4.1	4.2	4.2	4.0	3.8	3.9	4.0
90%	3.8	3.6	3.8	4.2	4.2	3.8	4.0	4.1	4.0	3.7	3.9	3.7
Long Term												
Full Simulation Period[a]	4.1	4.1	4.6	4.9	4.9	4.9	4.6	4.6	4.3	4.1	4.1	4.2
Water Year Types[b]												
Wet (31%)	4.3	4.7	5.6	5.6	6.1	6.7	5.5	5.3	4.8	4.6	4.3	4.8
Above Normal (25%)	4.0	3.6	4.3	5.7	5.9	5.2	4.9	4.9	4.2	4.2	4.0	4.1
Below Normal (6%)	3.7	3.9	3.8	4.7	4.5	4.5	4.5	4.5	4.1	3.5	3.9	3.7
Dry (13%)	4.1	3.9	4.2	4.3	4.2	4.3	4.2	4.3	4.2	3.8	4.0	4.1
Critical (25%)	4.0	4.0	4.4	4.4	4.3	4.0	4.1	4.2	4.0	4.0	4.2	4.1

Alternative 1A,1B,1C (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	4.8	5.5	5.8	6.2	6.3	5.6	4.8	4.5	4.4	4.4	4.6
20%	4.1	4.1	4.3	4.9	5.4	5.3	4.6	4.3	4.3	4.3	4.3	4.4
30%	4.0	4.0	4.1	4.6	5.1	4.9	4.0	4.2	4.2	4.2	4.2	4.2
40%	3.9	3.9	4.1	4.3	4.5	4.6	3.9	4.0	4.1	4.2	4.2	4.2
50%	3.9	3.9	4.0	4.2	4.1	4.1	3.9	4.0	4.1	4.1	4.1	4.1
60%	3.8	3.9	3.8	4.1	4.0	4.0	3.8	3.9	3.9	4.1	4.0	4.1
70%	3.8	3.8	3.8	4.1	3.9	3.9	3.8	3.9	3.9	4.0	4.0	4.1
80%	3.7	3.8	3.7	4.0	3.8	3.7	3.7	3.9	3.9	3.9	3.9	4.1
90%	3.6	3.7	3.5	4.0	3.8	3.5	3.5	3.7	3.8	3.8	3.9	3.9
Long Term												
Full Simulation Period[a]	4.0	4.1	4.3	4.6	4.7	4.8	4.2	4.2	4.2	4.1	4.1	4.2
Water Year Types[b]												
Wet (31%)	4.3	4.8	5.4	5.5	6.2	6.8	5.3	5.0	4.8	4.4	4.4	4.7
Above Normal (25%)	3.8	3.8	3.9	5.5	5.9	5.2	4.5	4.3	4.0	4.1	4.1	4.1
Below Normal (6%)	3.7	3.9	3.5	4.4	4.5	4.7	3.9	4.0	4.2	3.9	3.9	3.8
Dry (13%)	3.9	3.8	3.9	4.0	3.9	3.9	3.8	4.0	4.0	3.9	4.0	4.0
Critical (25%)	3.9	3.9	3.9	4.1	3.9	3.7	3.7	3.8	3.9	4.1	4.0	4.1

Alternative 1A,1B,1C (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.0	-0.2	-0.1	-0.2	0.0	0.0	-0.2	-0.5	0.0	-0.1	0.0	-0.2
20%	-0.2	0.0	-0.3	-0.2	0.1	-0.2	-0.5	-0.5	-0.2	0.0	0.0	-0.2
30%	-0.2	0.0	-0.4	-0.2	0.0	0.2	-0.5	-0.5	-0.2	0.0	0.0	-0.1
40%	-0.2	0.0	-0.4	-0.4	0.0	0.1	-0.4	-0.5	-0.1	0.1	0.0	0.0
50%	-0.1	0.1	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.1	0.2	0.0	0.0
60%	-0.1	0.0	-0.4	-0.5	-0.4	-0.4	-0.5	-0.4	-0.1	0.2	-0.1	0.0
70%	-0.1	0.0	-0.4	-0.4	-0.3	-0.4	-0.5	-0.3	-0.2	0.1	0.0	0.0
80%	-0.1	0.1	-0.5	-0.3	-0.4	-0.4	-0.5	-0.3	-0.2	0.1	0.0	0.1
90%	-0.1	0.1	-0.3	-0.2	-0.4	-0.3	-0.5	-0.4	-0.1	0.1	0.0	0.1
Long Term												
Full Simulation Period[a]	-0.1	0.0	-0.3	-0.3	-0.2	-0.2	-0.4	-0.4	-0.1	0.1	0.0	0.0
Water Year Types[b]												
Wet (31%)	0.0	0.0	-0.2	-0.2	0.1	0.1	-0.2	-0.3	0.0	-0.2	0.1	-0.1
Above Normal (25%)	-0.2	0.2	-0.3	-0.2	0.0	0.0	-0.4	-0.6	-0.2	-0.1	0.1	0.1
Below Normal (6%)	0.0	0.1	-0.3	-0.4	0.0	0.2	-0.6	-0.5	0.1	0.4	0.0	0.2
Dry (13%)	-0.2	-0.1	-0.3	-0.3	-0.3	-0.4	-0.4	-0.3	-0.1	0.1	0.0	0.0
Critical (25%)	-0.1	0.0	-0.5	-0.3	-0.4	-0.3	-0.4	-0.4	-0.2	0.1	-0.2	0.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-27-1-15. Old River at Tracy Blvd, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	5.0	5.6	6.0	6.2	6.2	5.8	5.3	4.5	4.5	4.4	4.7
20%	4.3	4.1	4.6	5.2	5.3	5.5	5.1	4.8	4.4	4.3	4.3	4.6
30%	4.2	4.0	4.5	4.8	5.1	4.7	4.5	4.7	4.3	4.2	4.2	4.3
40%	4.1	4.0	4.5	4.7	4.6	4.5	4.4	4.5	4.2	4.1	4.1	4.2
50%	4.0	3.9	4.4	4.6	4.5	4.5	4.3	4.4	4.1	4.0	4.1	4.1
60%	3.9	3.9	4.3	4.6	4.4	4.4	4.3	4.4	4.1	3.9	4.1	4.1
70%	3.9	3.8	4.2	4.4	4.2	4.3	4.3	4.3	4.1	3.8	4.0	4.1
80%	3.8	3.7	4.1	4.3	4.2	4.1	4.2	4.2	4.0	3.8	3.9	4.0
90%	3.8	3.6	3.8	4.2	4.2	3.8	4.0	4.1	4.0	3.7	3.9	3.7
Long Term												
Full Simulation Period[a]	4.1	4.1	4.6	4.9	4.9	4.9	4.6	4.6	4.3	4.1	4.1	4.2
Water Year Types[b]												
Wet (31%)	4.3	4.7	5.6	5.6	6.1	6.7	5.5	5.3	4.8	4.6	4.3	4.8
Above Normal (25%)	4.0	3.6	4.3	5.7	5.9	5.2	4.9	4.9	4.2	4.2	4.0	4.1
Below Normal (6%)	3.7	3.9	3.8	4.7	4.5	4.5	4.5	4.5	4.1	3.5	3.9	3.7
Dry (13%)	4.1	3.9	4.2	4.3	4.2	4.3	4.2	4.3	4.2	3.8	4.0	4.1
Critical (25%)	4.0	4.0	4.4	4.4	4.3	4.0	4.1	4.2	4.0	4.0	4.2	4.1

Alternative 2A,2B,2C (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	5.0	5.5	5.8	6.2	6.3	5.6	4.9	4.2	4.1	4.2	4.9
20%	4.0	4.1	4.1	4.8	5.4	5.3	4.7	4.2	4.0	4.0	4.1	4.6
30%	3.9	4.0	4.1	4.5	5.0	4.7	4.0	4.1	3.9	3.9	4.0	4.3
40%	3.8	4.0	4.1	4.2	4.1	4.1	3.9	3.9	3.8	3.9	4.0	4.0
50%	3.8	3.9	4.0	4.2	4.0	4.0	3.9	3.9	3.8	3.8	4.0	4.0
60%	3.7	3.8	3.9	4.1	4.0	3.9	3.8	3.8	3.7	3.8	3.8	4.0
70%	3.7	3.8	3.9	4.1	3.8	3.8	3.8	3.8	3.7	3.8	3.7	3.9
80%	3.7	3.7	3.8	4.1	3.8	3.7	3.7	3.7	3.6	3.7	3.7	3.9
90%	3.6	3.6	3.6	4.0	3.7	3.4	3.5	3.6	3.5	3.6	3.6	3.7
Long Term												
Full Simulation Period[a]	3.9	4.1	4.3	4.6	4.7	4.7	4.2	4.2	3.9	3.9	3.9	4.2
Water Year Types[b]												
Wet (31%)	4.2	4.8	5.4	5.4	6.1	6.8	5.3	5.0	4.6	4.3	4.3	5.0
Above Normal (25%)	3.6	3.6	4.0	5.4	5.8	5.1	4.5	4.4	3.9	3.8	3.9	4.3
Below Normal (6%)	3.7	4.1	3.5	4.2	4.1	4.1	3.9	3.9	3.7	3.7	3.8	3.8
Dry (13%)	3.9	3.9	4.0	4.0	3.8	3.8	3.8	3.8	3.7	3.7	3.8	3.8
Critical (25%)	3.8	3.9	3.9	4.1	3.8	3.6	3.6	3.7	3.6	3.8	3.8	3.9

Alternative 2A,2B,2C (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.1	-0.1	-0.1	-0.2	0.0	0.0	-0.2	-0.4	-0.3	-0.3	-0.2	0.2
20%	-0.3	0.0	-0.5	-0.3	0.1	-0.2	-0.4	-0.6	-0.4	-0.4	-0.2	0.0
30%	-0.3	0.1	-0.5	-0.3	-0.1	0.0	-0.5	-0.5	-0.4	-0.3	-0.2	0.0
40%	-0.3	0.0	-0.4	-0.5	-0.5	-0.5	-0.4	-0.6	-0.4	-0.2	-0.1	-0.2
50%	-0.2	0.0	-0.3	-0.4	-0.5	-0.4	-0.5	-0.5	-0.4	-0.1	-0.1	-0.1
60%	-0.2	-0.1	-0.3	-0.4	-0.4	-0.5	-0.5	-0.5	-0.3	-0.1	-0.3	-0.2
70%	-0.2	-0.1	-0.3	-0.3	-0.4	-0.5	-0.5	-0.5	-0.4	-0.1	-0.3	-0.1
80%	-0.2	0.0	-0.3	-0.2	-0.4	-0.4	-0.5	-0.5	-0.4	-0.1	-0.3	0.0
90%	-0.1	0.0	-0.2	-0.2	-0.4	-0.4	-0.5	-0.5	-0.4	-0.1	-0.2	0.0
Long Term												
Full Simulation Period[a]	-0.2	0.0	-0.3	-0.3	-0.3	-0.3	-0.4	-0.5	-0.4	-0.2	-0.2	0.0
Water Year Types[b]												
Wet (31%)	-0.1	0.0	-0.1	-0.2	0.1	0.1	-0.2	-0.4	-0.2	-0.3	0.0	0.2
Above Normal (25%)	-0.4	0.0	-0.3	-0.3	-0.1	0.0	-0.4	-0.5	-0.2	-0.4	-0.1	0.2
Below Normal (6%)	0.0	0.2	-0.3	-0.5	-0.4	-0.5	-0.6	-0.6	-0.3	0.2	-0.1	0.1
Dry (13%)	-0.2	0.0	-0.2	-0.4	-0.4	-0.5	-0.5	-0.5	-0.4	-0.1	-0.2	-0.2
Critical (25%)	-0.2	-0.1	-0.5	-0.3	-0.5	-0.4	-0.5	-0.5	-0.4	-0.2	-0.4	-0.2

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-27-1-16. Old River at Tracy Blvd, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	5.0	5.6	6.0	6.2	6.2	5.8	5.3	4.5	4.5	4.4	4.7
20%	4.3	4.1	4.6	5.2	5.3	5.5	5.1	4.8	4.4	4.3	4.3	4.6
30%	4.2	4.0	4.5	4.8	5.1	4.7	4.5	4.7	4.3	4.2	4.2	4.3
40%	4.1	4.0	4.5	4.7	4.6	4.5	4.4	4.5	4.2	4.1	4.1	4.2
50%	4.0	3.9	4.4	4.6	4.5	4.5	4.3	4.4	4.1	4.0	4.1	4.1
60%	3.9	3.9	4.3	4.6	4.4	4.4	4.3	4.4	4.1	3.9	4.1	4.1
70%	3.9	3.8	4.2	4.4	4.2	4.3	4.3	4.3	4.1	3.8	4.0	4.1
80%	3.8	3.7	4.1	4.3	4.2	4.1	4.2	4.2	4.0	3.8	3.9	4.0
90%	3.8	3.6	3.8	4.2	4.2	3.8	4.0	4.1	4.0	3.7	3.9	3.7
Long Term												
Full Simulation Period[a]	4.1	4.1	4.6	4.9	4.9	4.9	4.6	4.6	4.3	4.1	4.1	4.2
Water Year Types[b]												
Wet (31%)	4.3	4.7	5.6	5.6	6.1	6.7	5.5	5.3	4.8	4.6	4.3	4.8
Above Normal (25%)	4.0	3.6	4.3	5.7	5.9	5.2	4.9	4.9	4.2	4.2	4.0	4.1
Below Normal (6%)	3.7	3.9	3.8	4.7	4.5	4.5	4.5	4.5	4.1	3.5	3.9	3.7
Dry (13%)	4.1	3.9	4.2	4.3	4.2	4.3	4.2	4.3	4.2	3.8	4.0	4.1
Critical (25%)	4.0	4.0	4.4	4.4	4.3	4.0	4.1	4.2	4.0	4.0	4.2	4.1

Alternative 3 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	4.6	5.2	5.6	6.0	6.0	5.4	4.7	4.3	4.4	4.4	4.4
20%	4.1	4.0	4.2	4.7	5.2	5.3	4.6	4.3	4.2	4.3	4.3	4.2
30%	4.0	4.0	4.1	4.3	4.8	4.7	4.0	4.2	4.2	4.2	4.2	4.2
40%	4.0	4.0	4.0	4.3	4.3	4.3	3.9	4.0	4.1	4.2	4.2	4.1
50%	3.9	3.9	3.9	4.2	4.1	4.1	3.9	4.0	4.0	4.1	4.1	4.1
60%	3.9	3.8	3.9	4.1	4.1	4.0	3.8	3.9	3.9	4.0	4.0	4.0
70%	3.8	3.8	3.8	4.1	3.9	3.9	3.8	3.9	3.9	4.0	3.9	4.0
80%	3.7	3.8	3.8	4.0	3.8	3.7	3.7	3.8	3.9	4.0	3.9	4.0
90%	3.7	3.7	3.5	4.0	3.7	3.5	3.5	3.7	3.8	3.8	3.8	3.9
Long Term												
Full Simulation Period[a]	4.0	4.0	4.2	4.5	4.7	4.7	4.2	4.2	4.1	4.1	4.1	4.1
Water Year Types[b]												
Wet (31%)	4.3	4.6	5.2	5.2	6.0	6.6	5.1	4.9	4.6	4.4	4.4	4.5
Above Normal (25%)	3.8	3.7	4.0	5.3	5.7	5.1	4.4	4.3	3.9	4.1	4.0	4.0
Below Normal (6%)	3.7	3.8	3.5	4.3	4.3	4.5	3.9	4.0	4.2	4.0	3.9	3.8
Dry (13%)	3.9	3.8	3.8	4.0	3.9	3.9	3.8	3.9	4.1	3.9	4.0	4.0
Critical (25%)	3.9	3.9	3.9	4.1	3.9	3.7	3.7	3.8	3.9	4.1	4.0	4.1

Alternative 3 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.1	-0.4	-0.3	-0.4	-0.2	-0.2	-0.4	-0.6	-0.2	-0.1	0.0	-0.3
20%	-0.3	-0.1	-0.4	-0.5	-0.1	-0.2	-0.5	-0.5	-0.2	0.0	0.0	-0.4
30%	-0.2	0.0	-0.5	-0.5	-0.3	-0.1	-0.5	-0.5	-0.2	0.0	0.0	-0.1
40%	-0.2	0.0	-0.5	-0.4	-0.2	-0.2	-0.4	-0.5	-0.1	0.1	0.0	-0.1
50%	-0.1	0.0	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.1	0.2	0.0	0.0
60%	0.0	0.0	-0.4	-0.4	-0.3	-0.4	-0.5	-0.4	-0.1	0.1	-0.1	-0.1
70%	-0.1	-0.1	-0.4	-0.3	-0.3	-0.4	-0.5	-0.4	-0.2	0.1	-0.1	0.0
80%	-0.1	0.1	-0.3	-0.3	-0.3	-0.4	-0.5	-0.4	-0.1	0.2	0.0	0.0
90%	-0.1	0.1	-0.3	-0.2	-0.4	-0.3	-0.5	-0.4	-0.1	0.0	0.0	0.1
Long Term												
Full Simulation Period[a]	-0.1	-0.1	-0.4	-0.3	-0.3	-0.2	-0.4	-0.4	-0.2	0.0	0.0	-0.1
Water Year Types[b]												
Wet (31%)	0.0	-0.2	-0.4	-0.4	-0.1	-0.1	-0.4	-0.4	-0.2	-0.2	0.1	-0.3
Above Normal (25%)	-0.3	0.2	-0.3	-0.4	-0.2	-0.1	-0.5	-0.6	-0.2	-0.1	0.1	0.0
Below Normal (6%)	0.0	-0.1	-0.3	-0.4	-0.2	0.0	-0.6	-0.5	0.1	0.4	0.0	0.2
Dry (13%)	-0.2	-0.1	-0.3	-0.3	-0.4	-0.4	-0.4	-0.4	-0.1	0.1	0.0	0.0
Critical (25%)	-0.1	0.0	-0.5	-0.3	-0.4	-0.3	-0.4	-0.4	-0.2	0.2	-0.2	-0.1

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-27-1-17. Old River at Tracy Blvd, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	5.0	5.6	6.0	6.2	6.2	5.8	5.3	4.5	4.5	4.4	4.7
20%	4.3	4.1	4.6	5.2	5.3	5.5	5.1	4.8	4.4	4.3	4.3	4.6
30%	4.2	4.0	4.5	4.8	5.1	4.7	4.5	4.7	4.3	4.2	4.2	4.3
40%	4.1	4.0	4.5	4.7	4.6	4.5	4.4	4.5	4.2	4.1	4.1	4.2
50%	4.0	3.9	4.4	4.6	4.5	4.5	4.3	4.4	4.1	4.0	4.1	4.1
60%	3.9	3.9	4.3	4.6	4.4	4.4	4.3	4.4	4.1	3.9	4.1	4.1
70%	3.9	3.8	4.2	4.4	4.2	4.3	4.3	4.3	4.1	3.8	4.0	4.1
80%	3.8	3.7	4.1	4.3	4.2	4.1	4.2	4.2	4.0	3.8	3.9	4.0
90%	3.8	3.6	3.8	4.2	4.2	3.8	4.0	4.1	4.0	3.7	3.9	3.7
Long Term												
Full Simulation Period[a]	4.1	4.1	4.6	4.9	4.9	4.9	4.6	4.6	4.3	4.1	4.1	4.2
Water Year Types[b]												
Wet (31%)	4.3	4.7	5.6	5.6	6.1	6.7	5.5	5.3	4.8	4.6	4.3	4.8
Above Normal (25%)	4.0	3.6	4.3	5.7	5.9	5.2	4.9	4.9	4.2	4.2	4.0	4.1
Below Normal (6%)	3.7	3.9	3.8	4.7	4.5	4.5	4.5	4.5	4.1	3.5	3.9	3.7
Dry (13%)	4.1	3.9	4.2	4.3	4.2	4.3	4.2	4.3	4.2	3.8	4.0	4.1
Critical (25%)	4.0	4.0	4.4	4.4	4.3	4.0	4.1	4.2	4.0	4.0	4.2	4.1

Alternative 4 H1 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.2	4.8	5.3	5.6	6.0	6.1	5.5	4.9	4.2	4.1	4.2	4.5
20%	3.9	3.9	4.2	4.6	5.1	5.3	4.7	4.2	4.1	3.9	4.1	4.1
30%	3.9	3.9	4.1	4.2	4.8	4.7	4.0	4.1	3.9	3.9	4.0	4.0
40%	3.8	3.8	4.1	4.2	4.1	4.2	3.9	3.9	3.9	3.9	4.0	4.0
50%	3.7	3.7	4.1	4.1	4.0	4.0	3.9	3.9	3.8	3.9	3.9	4.0
60%	3.7	3.7	4.0	4.1	4.0	3.9	3.8	3.8	3.7	3.8	3.8	4.0
70%	3.7	3.7	4.0	4.0	3.8	3.8	3.8	3.8	3.7	3.8	3.7	3.9
80%	3.7	3.7	3.8	4.0	3.8	3.7	3.7	3.7	3.6	3.7	3.7	3.9
90%	3.6	3.5	3.6	3.8	3.7	3.5	3.5	3.7	3.5	3.6	3.6	3.8
Long Term												
Full Simulation Period[a]	3.8	4.0	4.3	4.4	4.6	4.7	4.2	4.2	3.9	3.9	3.9	4.1
Water Year Types[b]												
Wet (31%)	4.1	4.8	5.4	5.3	5.9	6.7	5.2	5.0	4.5	4.3	4.2	4.6
Above Normal (25%)	3.6	3.6	3.9	5.1	5.7	5.1	4.4	4.4	3.9	3.8	3.9	4.0
Below Normal (6%)	3.7	3.7	3.5	4.3	4.1	4.2	3.9	3.9	3.9	3.7	3.8	3.8
Dry (13%)	3.8	3.7	4.0	4.0	3.8	3.8	3.8	3.8	3.7	3.7	3.8	3.8
Critical (25%)	3.7	3.7	4.0	3.9	3.8	3.6	3.6	3.7	3.6	3.9	3.8	3.9

Alternative 4 H1 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.3	-0.2	-0.3	-0.4	-0.2	-0.2	-0.3	-0.4	-0.3	-0.4	-0.2	-0.2
20%	-0.4	-0.2	-0.4	-0.6	-0.2	-0.2	-0.4	-0.6	-0.4	-0.4	-0.2	-0.5
30%	-0.3	-0.1	-0.4	-0.5	-0.3	-0.1	-0.5	-0.5	-0.4	-0.4	-0.2	-0.3
40%	-0.3	-0.2	-0.4	-0.5	-0.5	-0.3	-0.4	-0.6	-0.4	-0.2	-0.1	-0.2
50%	-0.3	-0.1	-0.3	-0.5	-0.5	-0.5	-0.5	-0.5	-0.4	-0.1	-0.2	-0.2
60%	-0.2	-0.2	-0.2	-0.4	-0.4	-0.5	-0.5	-0.5	-0.4	-0.1	-0.3	-0.2
70%	-0.2	-0.2	-0.3	-0.4	-0.4	-0.5	-0.5	-0.5	-0.4	0.0	-0.3	-0.2
80%	-0.2	0.0	-0.3	-0.3	-0.4	-0.4	-0.5	-0.5	-0.4	-0.1	-0.3	-0.1
90%	-0.2	-0.1	-0.2	-0.3	-0.4	-0.3	-0.5	-0.5	-0.4	-0.2	-0.2	0.0
Long Term												
Full Simulation Period[a]	-0.3	-0.1	-0.3	-0.4	-0.3	-0.3	-0.4	-0.5	-0.4	-0.2	-0.2	-0.2
Water Year Types[b]												
Wet (31%)	-0.2	0.0	-0.2	-0.3	-0.2	0.0	-0.3	-0.4	-0.3	-0.4	-0.1	-0.2
Above Normal (25%)	-0.4	0.0	-0.4	-0.6	-0.2	-0.1	-0.5	-0.5	-0.2	-0.4	-0.1	-0.1
Below Normal (6%)	0.0	-0.2	-0.3	-0.5	-0.4	-0.3	-0.6	-0.6	-0.2	0.2	-0.1	0.1
Dry (13%)	-0.3	-0.3	-0.2	-0.3	-0.4	-0.5	-0.5	-0.5	-0.5	-0.1	-0.2	-0.2
Critical (25%)	-0.3	-0.2	-0.4	-0.5	-0.5	-0.4	-0.5	-0.5	-0.4	-0.1	-0.4	-0.2

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-27-1-18. Old River at Tracy Blvd, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	5.0	5.6	6.0	6.2	6.2	5.8	5.3	4.5	4.5	4.4	4.7
20%	4.3	4.1	4.6	5.2	5.3	5.5	5.1	4.8	4.4	4.3	4.3	4.6
30%	4.2	4.0	4.5	4.8	5.1	4.7	4.5	4.7	4.3	4.2	4.2	4.3
40%	4.1	4.0	4.5	4.7	4.6	4.5	4.4	4.5	4.2	4.1	4.1	4.2
50%	4.0	3.9	4.4	4.6	4.5	4.5	4.3	4.4	4.1	4.0	4.1	4.1
60%	3.9	3.9	4.3	4.6	4.4	4.4	4.3	4.4	4.1	3.9	4.1	4.1
70%	3.9	3.8	4.2	4.4	4.2	4.3	4.3	4.3	4.1	3.8	4.0	4.1
80%	3.8	3.7	4.1	4.3	4.2	4.1	4.2	4.2	4.0	3.8	3.9	4.0
90%	3.8	3.6	3.8	4.2	4.2	3.8	4.0	4.1	4.0	3.7	3.9	3.7
Long Term												
Full Simulation Period[a]	4.1	4.1	4.6	4.9	4.9	4.9	4.6	4.6	4.3	4.1	4.1	4.2
Water Year Types[b]												
Wet (31%)	4.3	4.7	5.6	5.6	6.1	6.7	5.5	5.3	4.8	4.6	4.3	4.8
Above Normal (25%)	4.0	3.6	4.3	5.7	5.9	5.2	4.9	4.9	4.2	4.2	4.0	4.1
Below Normal (6%)	3.7	3.9	3.8	4.7	4.5	4.5	4.5	4.5	4.1	3.5	3.9	3.7
Dry (13%)	4.1	3.9	4.2	4.3	4.2	4.3	4.2	4.3	4.2	3.8	4.0	4.1
Critical (25%)	4.0	4.0	4.4	4.4	4.3	4.0	4.1	4.2	4.0	4.0	4.2	4.1

Alternative 4 H2 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.2	4.8	5.3	5.6	6.0	6.2	5.5	4.9	4.3	4.3	4.2	4.5
20%	3.9	3.9	4.2	4.6	5.2	5.3	4.7	4.3	4.2	4.2	4.1	4.3
30%	3.9	3.9	4.1	4.3	4.9	4.7	4.1	4.2	4.0	4.0	4.0	4.0
40%	3.8	3.8	4.1	4.2	4.1	4.1	4.1	4.0	3.8	3.9	4.0	4.0
50%	3.7	3.7	4.1	4.1	4.0	4.0	4.0	4.0	3.8	3.9	3.9	4.0
60%	3.7	3.7	4.0	4.1	4.0	3.9	3.9	4.0	3.8	3.8	3.9	3.9
70%	3.7	3.7	3.9	4.0	3.8	3.8	3.8	3.8	3.7	3.8	3.7	3.9
80%	3.6	3.6	3.8	4.0	3.8	3.7	3.7	3.7	3.7	3.8	3.7	3.9
90%	3.6	3.5	3.8	3.9	3.7	3.5	3.6	3.6	3.6	3.7	3.6	3.8
Long Term												
Full Simulation Period[a]	3.8	3.9	4.3	4.5	4.6	4.7	4.3	4.2	4.0	4.0	3.9	4.1
Water Year Types[b]												
Wet (31%)	4.2	4.7	5.3	5.3	5.9	6.7	5.3	5.0	4.7	4.4	4.2	4.7
Above Normal (25%)	3.7	3.6	4.0	5.1	5.8	5.1	4.5	4.4	3.9	4.1	3.9	4.0
Below Normal (6%)	3.6	3.7	3.8	4.3	4.1	4.1	3.9	4.0	3.7	3.7	3.9	3.8
Dry (13%)	3.8	3.7	4.0	4.0	3.8	3.8	3.9	3.8	3.8	3.7	3.8	3.9
Critical (25%)	3.7	3.7	4.0	4.0	3.8	3.6	3.7	3.8	3.6	3.9	3.8	3.9

Alternative 4 H2 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.3	-0.2	-0.3	-0.4	-0.2	-0.1	-0.2	-0.4	-0.2	-0.2	-0.2	-0.2
20%	-0.4	-0.2	-0.5	-0.6	-0.1	-0.2	-0.4	-0.5	-0.2	-0.1	-0.2	-0.3
30%	-0.3	-0.1	-0.4	-0.5	-0.2	-0.1	-0.4	-0.5	-0.4	-0.2	-0.2	-0.3
40%	-0.3	-0.2	-0.4	-0.5	-0.5	-0.4	-0.3	-0.4	-0.4	-0.1	-0.1	-0.2
50%	-0.3	-0.2	-0.3	-0.5	-0.5	-0.5	-0.4	-0.4	-0.4	-0.1	-0.2	-0.2
60%	-0.2	-0.2	-0.2	-0.4	-0.4	-0.5	-0.4	-0.4	-0.3	-0.1	-0.2	-0.2
70%	-0.2	-0.2	-0.3	-0.4	-0.4	-0.5	-0.4	-0.5	-0.3	-0.1	-0.3	-0.2
80%	-0.2	-0.1	-0.3	-0.3	-0.4	-0.4	-0.5	-0.4	-0.3	-0.1	-0.3	-0.1
90%	-0.2	-0.1	0.0	-0.2	-0.4	-0.3	-0.5	-0.5	-0.4	0.0	-0.2	0.0
Long Term												
Full Simulation Period[a]	-0.3	-0.1	-0.3	-0.4	-0.3	-0.3	-0.4	-0.4	-0.3	-0.1	-0.2	-0.1
Water Year Types[b]												
Wet (31%)	-0.1	0.0	-0.2	-0.3	-0.1	0.0	-0.2	-0.4	-0.1	-0.2	-0.1	-0.1
Above Normal (25%)	-0.4	0.0	-0.3	-0.6	-0.1	-0.1	-0.4	-0.4	-0.2	-0.1	0.0	-0.1
Below Normal (6%)	-0.1	-0.2	0.0	-0.5	-0.4	-0.4	-0.6	-0.5	-0.4	0.2	0.0	0.1
Dry (13%)	-0.3	-0.2	-0.2	-0.4	-0.4	-0.5	-0.4	-0.5	-0.4	-0.1	-0.2	-0.2
Critical (25%)	-0.3	-0.2	-0.4	-0.4	-0.5	-0.4	-0.4	-0.4	-0.4	-0.1	-0.4	-0.2

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-27-1-19. Old River at Tracy Blvd, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	5.0	5.6	6.0	6.2	6.2	5.8	5.3	4.5	4.5	4.4	4.7
20%	4.3	4.1	4.6	5.2	5.3	5.5	5.1	4.8	4.4	4.3	4.3	4.6
30%	4.2	4.0	4.5	4.8	5.1	4.7	4.5	4.7	4.3	4.2	4.2	4.3
40%	4.1	4.0	4.5	4.7	4.6	4.5	4.4	4.5	4.2	4.1	4.1	4.2
50%	4.0	3.9	4.4	4.6	4.5	4.5	4.3	4.4	4.1	4.0	4.1	4.1
60%	3.9	3.9	4.3	4.6	4.4	4.4	4.3	4.4	4.1	3.9	4.1	4.1
70%	3.9	3.8	4.2	4.4	4.2	4.3	4.3	4.3	4.1	3.8	4.0	4.1
80%	3.8	3.7	4.1	4.3	4.2	4.1	4.2	4.2	4.0	3.8	3.9	4.0
90%	3.8	3.6	3.8	4.2	4.2	3.8	4.0	4.1	4.0	3.7	3.9	3.7
Long Term												
Full Simulation Period[a]	4.1	4.1	4.6	4.9	4.9	4.9	4.6	4.6	4.3	4.1	4.1	4.2
Water Year Types[b]												
Wet (31%)	4.3	4.7	5.6	5.6	6.1	6.7	5.5	5.3	4.8	4.6	4.3	4.8
Above Normal (25%)	4.0	3.6	4.3	5.7	5.9	5.2	4.9	4.9	4.2	4.2	4.0	4.1
Below Normal (6%)	3.7	3.9	3.8	4.7	4.5	4.5	4.5	4.5	4.1	3.5	3.9	3.7
Dry (13%)	4.1	3.9	4.2	4.3	4.2	4.3	4.2	4.3	4.2	3.8	4.0	4.1
Critical (25%)	4.0	4.0	4.4	4.4	4.3	4.0	4.1	4.2	4.0	4.0	4.2	4.1

Alternative 4 H3 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	4.9	5.2	5.6	5.9	6.1	5.5	4.9	4.2	4.1	4.2	4.9
20%	4.0	4.1	4.1	4.6	5.0	5.3	4.7	4.2	4.1	4.0	4.1	4.6
30%	3.9	4.0	4.1	4.2	4.8	4.7	4.1	4.1	3.9	3.9	4.1	4.3
40%	3.8	4.0	4.1	4.2	4.1	4.1	4.0	3.9	3.8	3.9	4.0	4.0
50%	3.8	3.9	4.0	4.2	4.0	4.0	3.9	3.9	3.8	3.8	3.9	4.0
60%	3.7	3.8	4.0	4.1	4.0	3.9	3.8	3.8	3.7	3.8	3.8	4.0
70%	3.7	3.7	3.9	4.1	3.8	3.8	3.8	3.8	3.6	3.8	3.7	3.9
80%	3.7	3.7	3.8	4.0	3.8	3.7	3.7	3.7	3.6	3.7	3.7	3.9
90%	3.7	3.6	3.7	3.9	3.7	3.4	3.5	3.6	3.5	3.6	3.6	3.7
Long Term												
Full Simulation Period[a]	3.9	4.1	4.3	4.5	4.6	4.6	4.2	4.2	3.9	3.9	3.9	4.2
Water Year Types[b]												
Wet (31%)	4.2	4.7	5.3	5.3	5.9	6.7	5.2	5.0	4.5	4.3	4.3	4.9
Above Normal (25%)	3.6	3.6	3.9	5.1	5.6	5.1	4.4	4.4	3.9	3.8	3.9	4.3
Below Normal (6%)	3.7	4.1	3.6	4.2	4.1	4.1	3.9	3.9	3.7	3.7	3.8	3.8
Dry (13%)	3.9	3.9	4.0	4.0	3.8	3.8	3.8	3.8	3.7	3.7	3.8	3.8
Critical (25%)	3.8	3.8	3.9	4.0	3.8	3.6	3.7	3.7	3.6	3.8	3.8	3.9

Alternative 4 H3 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.0	-0.1	-0.3	-0.4	-0.3	-0.1	-0.3	-0.4	-0.3	-0.3	-0.2	0.2
20%	-0.3	0.0	-0.5	-0.6	-0.3	-0.2	-0.4	-0.6	-0.4	-0.4	-0.2	0.0
30%	-0.3	0.1	-0.5	-0.5	-0.3	-0.1	-0.5	-0.5	-0.4	-0.3	-0.1	0.0
40%	-0.3	0.0	-0.4	-0.5	-0.5	-0.4	-0.4	-0.6	-0.4	-0.2	-0.1	-0.2
50%	-0.2	0.0	-0.3	-0.4	-0.5	-0.5	-0.5	-0.5	-0.4	-0.1	-0.2	-0.1
60%	-0.2	-0.1	-0.3	-0.4	-0.4	-0.5	-0.5	-0.5	-0.4	-0.1	-0.3	-0.2
70%	-0.2	-0.1	-0.3	-0.4	-0.4	-0.5	-0.5	-0.5	-0.4	-0.1	-0.3	-0.1
80%	-0.2	0.0	-0.3	-0.3	-0.4	-0.4	-0.5	-0.5	-0.4	-0.1	-0.3	-0.1
90%	-0.1	0.0	-0.1	-0.3	-0.4	-0.4	-0.5	-0.5	-0.4	-0.1	-0.2	0.0
Long Term												
Full Simulation Period[a]	-0.2	0.0	-0.3	-0.4	-0.4	-0.3	-0.4	-0.5	-0.4	-0.2	-0.2	0.0
Water Year Types[b]												
Wet (31%)	-0.1	0.0	-0.3	-0.3	-0.2	0.0	-0.3	-0.4	-0.3	-0.3	-0.1	0.1
Above Normal (25%)	-0.4	0.0	-0.3	-0.6	-0.3	-0.1	-0.5	-0.5	-0.2	-0.4	-0.1	0.2
Below Normal (6%)	0.0	0.2	-0.1	-0.5	-0.4	-0.4	-0.6	-0.6	-0.4	0.2	-0.1	0.1
Dry (13%)	-0.2	0.0	-0.2	-0.4	-0.4	-0.5	-0.5	-0.5	-0.4	-0.1	-0.2	-0.2
Critical (25%)	-0.2	-0.1	-0.5	-0.4	-0.5	-0.4	-0.4	-0.5	-0.4	-0.1	-0.4	-0.2

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-27-1-20. Old River at Tracy Blvd, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	5.0	5.6	6.0	6.2	6.2	5.8	5.3	4.5	4.5	4.4	4.7
20%	4.3	4.1	4.6	5.2	5.3	5.5	5.1	4.8	4.4	4.3	4.3	4.6
30%	4.2	4.0	4.5	4.8	5.1	4.7	4.5	4.7	4.3	4.2	4.2	4.3
40%	4.1	4.0	4.5	4.7	4.6	4.5	4.4	4.5	4.2	4.1	4.1	4.2
50%	4.0	3.9	4.4	4.6	4.5	4.5	4.3	4.4	4.1	4.0	4.1	4.1
60%	3.9	3.9	4.3	4.6	4.4	4.4	4.3	4.4	4.1	3.9	4.1	4.1
70%	3.9	3.8	4.2	4.4	4.2	4.3	4.3	4.3	4.1	3.8	4.0	4.1
80%	3.8	3.7	4.1	4.3	4.2	4.1	4.2	4.2	4.0	3.8	3.9	4.0
90%	3.8	3.6	3.8	4.2	4.2	3.8	4.0	4.1	4.0	3.7	3.9	3.7
Long Term												
Full Simulation Period[a]	4.1	4.1	4.6	4.9	4.9	4.9	4.6	4.6	4.3	4.1	4.1	4.2
Water Year Types[b]												
Wet (31%)	4.3	4.7	5.6	5.6	6.1	6.7	5.5	5.3	4.8	4.6	4.3	4.8
Above Normal (25%)	4.0	3.6	4.3	5.7	5.9	5.2	4.9	4.9	4.2	4.2	4.0	4.1
Below Normal (6%)	3.7	3.9	3.8	4.7	4.5	4.5	4.5	4.5	4.1	3.5	3.9	3.7
Dry (13%)	4.1	3.9	4.2	4.3	4.2	4.3	4.2	4.3	4.2	3.8	4.0	4.1
Critical (25%)	4.0	4.0	4.4	4.4	4.3	4.0	4.1	4.2	4.0	4.0	4.2	4.1

Alternative 4 H4 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	4.9	5.2	5.7	5.9	6.2	5.5	4.9	4.3	4.3	4.2	4.9
20%	4.1	4.1	4.1	4.6	5.2	5.3	4.7	4.3	4.2	4.2	4.1	4.6
30%	3.9	4.1	4.1	4.4	4.8	4.7	4.1	4.1	4.0	4.0	4.0	4.3
40%	3.8	4.0	4.1	4.2	4.1	4.1	4.1	4.0	3.8	3.9	3.9	4.0
50%	3.7	3.9	4.0	4.2	4.0	4.0	4.0	4.0	3.8	3.9	3.9	4.0
60%	3.7	3.8	3.9	4.1	3.9	3.9	3.9	4.0	3.8	3.8	3.7	3.9
70%	3.7	3.8	3.9	4.1	3.8	3.8	3.8	3.8	3.7	3.8	3.7	3.9
80%	3.7	3.7	3.8	4.0	3.8	3.7	3.8	3.8	3.7	3.8	3.7	3.9
90%	3.6	3.6	3.7	3.9	3.7	3.5	3.5	3.6	3.6	3.7	3.6	3.7
Long Term												
Full Simulation Period[a]	3.9	4.1	4.3	4.5	4.6	4.7	4.3	4.2	4.0	4.0	3.9	4.2
Water Year Types[b]												
Wet (31%)	4.2	4.7	5.3	5.4	5.9	6.7	5.3	5.0	4.7	4.4	4.2	5.0
Above Normal (25%)	3.6	3.6	3.9	5.2	5.6	5.1	4.5	4.4	3.9	4.1	3.9	4.3
Below Normal (6%)	3.7	4.1	3.6	4.3	4.1	4.1	3.9	4.0	3.9	3.7	3.7	3.7
Dry (13%)	3.9	3.9	4.0	4.0	3.8	3.8	3.9	3.8	3.8	3.8	3.8	3.8
Critical (25%)	3.8	3.9	3.9	4.0	3.8	3.6	3.7	3.8	3.6	3.8	3.8	3.9

Alternative 4 H4 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.0	-0.1	-0.4	-0.3	-0.3	0.0	-0.2	-0.4	-0.2	-0.1	-0.2	0.2
20%	-0.3	0.1	-0.5	-0.6	-0.1	-0.2	-0.4	-0.5	-0.2	-0.1	-0.2	0.0
30%	-0.3	0.1	-0.5	-0.4	-0.3	-0.1	-0.4	-0.5	-0.3	-0.2	-0.2	0.0
40%	-0.3	0.0	-0.4	-0.5	-0.5	-0.4	-0.3	-0.4	-0.4	-0.2	-0.2	-0.2
50%	-0.3	0.0	-0.3	-0.4	-0.5	-0.5	-0.4	-0.4	-0.4	-0.1	-0.2	-0.1
60%	-0.2	0.0	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4	-0.3	0.0	-0.3	-0.2
70%	-0.2	-0.1	-0.3	-0.4	-0.4	-0.5	-0.4	-0.5	-0.3	0.0	-0.3	-0.1
80%	-0.2	0.0	-0.3	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	0.0	-0.2	-0.1
90%	-0.1	0.0	-0.1	-0.3	-0.4	-0.3	-0.5	-0.5	-0.4	0.0	-0.2	0.0
Long Term												
Full Simulation Period[a]	-0.2	0.0	-0.3	-0.4	-0.3	-0.3	-0.4	-0.4	-0.3	-0.1	-0.2	0.0
Water Year Types[b]												
Wet (31%)	-0.1	-0.1	-0.3	-0.2	-0.1	0.0	-0.2	-0.4	-0.1	-0.2	-0.1	0.2
Above Normal (25%)	-0.4	0.0	-0.4	-0.5	-0.3	-0.1	-0.4	-0.4	-0.2	-0.1	0.0	0.2
Below Normal (6%)	0.0	0.3	-0.2	-0.5	-0.4	-0.4	-0.6	-0.5	-0.2	0.2	-0.1	0.0
Dry (13%)	-0.2	0.0	-0.2	-0.4	-0.4	-0.5	-0.4	-0.5	-0.4	0.0	-0.2	-0.2
Critical (25%)	-0.2	-0.1	-0.5	-0.4	-0.5	-0.4	-0.4	-0.4	-0.4	-0.1	-0.5	-0.2

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-27-1-21. Old River at Tracy Blvd, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	5.0	5.6	6.0	6.2	6.2	5.8	5.3	4.5	4.5	4.4	4.7
20%	4.3	4.1	4.6	5.2	5.3	5.5	5.1	4.8	4.4	4.3	4.3	4.6
30%	4.2	4.0	4.5	4.8	5.1	4.7	4.5	4.7	4.3	4.2	4.2	4.3
40%	4.1	4.0	4.5	4.7	4.6	4.5	4.4	4.5	4.2	4.1	4.1	4.2
50%	4.0	3.9	4.4	4.6	4.5	4.5	4.3	4.4	4.1	4.0	4.1	4.1
60%	3.9	3.9	4.3	4.6	4.4	4.4	4.3	4.4	4.1	3.9	4.1	4.1
70%	3.9	3.8	4.2	4.4	4.2	4.3	4.3	4.3	4.1	3.8	4.0	4.1
80%	3.8	3.7	4.1	4.3	4.2	4.1	4.2	4.2	4.0	3.8	3.9	4.0
90%	3.8	3.6	3.8	4.2	4.2	3.8	4.0	4.1	4.0	3.7	3.9	3.7
Long Term												
Full Simulation Period[a]	4.1	4.1	4.6	4.9	4.9	4.9	4.6	4.6	4.3	4.1	4.1	4.2
Water Year Types[b]												
Wet (31%)	4.3	4.7	5.6	5.6	6.1	6.7	5.5	5.3	4.8	4.6	4.3	4.8
Above Normal (25%)	4.0	3.6	4.3	5.7	5.9	5.2	4.9	4.9	4.2	4.2	4.0	4.1
Below Normal (6%)	3.7	3.9	3.8	4.7	4.5	4.5	4.5	4.5	4.1	3.5	3.9	3.7
Dry (13%)	4.1	3.9	4.2	4.3	4.2	4.3	4.2	4.3	4.2	3.8	4.0	4.1
Critical (25%)	4.0	4.0	4.4	4.4	4.3	4.0	4.1	4.2	4.0	4.0	4.2	4.1

Alternative 5 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	4.8	5.1	5.5	5.8	5.9	5.3	4.9	4.1	4.1	4.2	4.7
20%	4.2	4.1	4.0	4.6	4.9	5.2	4.7	4.4	4.0	4.0	4.1	4.3
30%	4.0	4.0	4.0	4.3	4.7	4.4	4.1	4.3	3.9	3.9	4.0	4.2
40%	3.7	3.9	4.0	4.2	4.1	4.1	4.0	4.1	3.8	3.9	4.0	4.0
50%	3.7	3.8	4.0	4.2	4.1	4.1	3.9	4.0	3.7	3.8	3.8	3.9
60%	3.7	3.7	3.8	4.1	4.0	4.0	3.9	3.9	3.7	3.7	3.7	3.9
70%	3.6	3.7	3.7	4.1	3.8	3.8	3.8	3.9	3.7	3.7	3.7	3.9
80%	3.6	3.6	3.5	4.0	3.8	3.7	3.8	3.8	3.6	3.6	3.7	3.9
90%	3.6	3.5	3.5	3.8	3.7	3.5	3.6	3.7	3.6	3.5	3.6	3.7
Long Term												
Full Simulation Period[a]	3.9	4.0	4.1	4.5	4.6	4.6	4.2	4.2	3.9	3.8	3.9	4.1
Water Year Types[b]												
Wet (31%)	4.1	4.6	5.1	5.2	5.7	6.5	5.2	4.9	4.5	4.2	4.1	4.7
Above Normal (25%)	3.6	3.4	3.9	5.1	5.5	4.8	4.5	4.5	3.9	3.8	3.9	4.1
Below Normal (6%)	3.6	4.1	3.5	4.3	4.1	4.1	4.1	4.1	3.7	3.4	3.7	3.7
Dry (13%)	3.9	3.9	3.7	3.9	3.9	3.9	3.8	3.9	3.8	3.7	3.8	3.9
Critical (25%)	3.8	3.8	3.9	4.0	3.9	3.6	3.7	3.8	3.6	3.7	3.8	3.9

Alternative 5 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.1	-0.2	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.2	0.0
20%	-0.1	0.0	-0.6	-0.5	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.2	-0.3
30%	-0.2	0.0	-0.5	-0.5	-0.4	-0.3	-0.4	-0.4	-0.4	-0.3	-0.2	-0.1
40%	-0.4	-0.1	-0.5	-0.5	-0.4	-0.4	-0.4	-0.3	-0.4	-0.2	-0.2	-0.2
50%	-0.3	-0.1	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.2	-0.3	-0.2
60%	-0.3	-0.2	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.2	-0.4	-0.2
70%	-0.2	-0.2	-0.5	-0.3	-0.4	-0.5	-0.4	-0.4	-0.4	-0.2	-0.3	-0.2
80%	-0.2	-0.1	-0.6	-0.3	-0.4	-0.4	-0.4	-0.4	-0.4	-0.2	-0.3	-0.1
90%	-0.2	-0.1	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.2	-0.2	0.0
Long Term												
Full Simulation Period[a]	-0.2	-0.1	-0.4	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.2	-0.2	-0.1
Water Year Types[b]												
Wet (31%)	-0.2	-0.2	-0.4	-0.4	-0.3	-0.2	-0.4	-0.4	-0.4	-0.4	-0.2	-0.1
Above Normal (25%)	-0.4	-0.2	-0.3	-0.6	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.1	0.1
Below Normal (6%)	-0.1	0.3	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	-0.3	-0.1	-0.2	0.0
Dry (13%)	-0.2	0.0	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.1	-0.2	-0.2
Critical (25%)	-0.2	-0.2	-0.5	-0.3	-0.4	-0.4	-0.4	-0.4	-0.4	-0.2	-0.4	-0.2

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-27-1-22. Old River at Tracy Blvd, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	5.0	5.6	6.0	6.2	6.2	5.8	5.3	4.5	4.5	4.4	4.7
20%	4.3	4.1	4.6	5.2	5.3	5.5	5.1	4.8	4.4	4.3	4.3	4.6
30%	4.2	4.0	4.5	4.8	5.1	4.7	4.5	4.7	4.3	4.2	4.2	4.3
40%	4.1	4.0	4.5	4.7	4.6	4.5	4.4	4.5	4.2	4.1	4.1	4.2
50%	4.0	3.9	4.4	4.6	4.5	4.5	4.3	4.4	4.1	4.0	4.1	4.1
60%	3.9	3.9	4.3	4.6	4.4	4.4	4.3	4.4	4.1	3.9	4.1	4.1
70%	3.9	3.8	4.2	4.4	4.2	4.3	4.3	4.3	4.1	3.8	4.0	4.1
80%	3.8	3.7	4.1	4.3	4.2	4.1	4.2	4.2	4.0	3.8	3.9	4.0
90%	3.8	3.6	3.8	4.2	4.2	3.8	4.0	4.1	4.0	3.7	3.9	3.7
Long Term												
Full Simulation Period[a]	4.1	4.1	4.6	4.9	4.9	4.9	4.6	4.6	4.3	4.1	4.1	4.2
Water Year Types[b]												
Wet (31%)	4.3	4.7	5.6	5.6	6.1	6.7	5.5	5.3	4.8	4.6	4.3	4.8
Above Normal (25%)	4.0	3.6	4.3	5.7	5.9	5.2	4.9	4.9	4.2	4.2	4.0	4.1
Below Normal (6%)	3.7	3.9	3.8	4.7	4.5	4.5	4.5	4.5	4.1	3.5	3.9	3.7
Dry (13%)	4.1	3.9	4.2	4.3	4.2	4.3	4.2	4.3	4.2	3.8	4.0	4.1
Critical (25%)	4.0	4.0	4.4	4.4	4.3	4.0	4.1	4.2	4.0	4.0	4.2	4.1

Alternative 6A,6B,6C (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.7	5.1	5.5	5.8	6.2	6.3	5.6	5.1	4.7	4.8	4.7	4.9
20%	4.4	4.5	4.7	5.0	5.4	5.3	4.9	4.6	4.5	4.6	4.6	4.7
30%	4.4	4.5	4.5	4.8	5.1	4.9	4.3	4.5	4.5	4.5	4.6	4.5
40%	4.3	4.3	4.5	4.6	4.7	4.6	4.2	4.4	4.3	4.5	4.5	4.5
50%	4.3	4.3	4.4	4.5	4.4	4.3	4.2	4.3	4.3	4.5	4.5	4.5
60%	4.2	4.3	4.4	4.4	4.3	4.2	4.1	4.2	4.2	4.5	4.4	4.4
70%	4.2	4.2	4.3	4.4	4.2	4.1	4.1	4.2	4.2	4.4	4.4	4.3
80%	4.2	4.2	4.3	4.3	4.2	4.0	4.0	4.1	4.1	4.3	4.3	4.3
90%	4.2	4.1	4.2	4.2	4.1	3.9	3.8	4.0	4.1	4.2	4.3	4.3
Long Term												
Full Simulation Period[a]	4.4	4.5	4.7	4.8	4.9	4.9	4.5	4.5	4.4	4.5	4.5	4.5
Water Year Types[b]												
Wet (31%)	4.6	5.0	5.6	5.5	6.2	6.8	5.4	5.2	4.9	4.9	4.8	5.0
Above Normal (25%)	4.1	4.1	4.4	5.5	5.9	5.2	4.7	4.7	4.4	4.5	4.5	4.4
Below Normal (6%)	4.2	4.3	4.2	4.8	4.7	4.7	4.3	4.4	4.2	4.2	4.3	4.3
Dry (13%)	4.3	4.3	4.4	4.3	4.2	4.2	4.1	4.2	4.3	4.5	4.4	4.4
Critical (25%)	4.3	4.3	4.4	4.3	4.2	3.9	3.9	4.1	4.1	4.4	4.4	4.4

Alternative 6A,6B,6C (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.3	0.0	**0.0**	**-0.2**	0.0	0.0	**-0.2**	**-0.2**	0.2	0.3	0.3	0.2
20%	0.1	0.4	0.1	**-0.1**	0.1	**-0.2**	**-0.2**	**-0.2**	0.1	0.3	0.3	0.1
30%	0.2	0.5	**0.0**	0.0	0.0	0.2	**-0.2**	**-0.1**	0.1	0.3	0.4	0.2
40%	0.2	0.4	0.0	**-0.2**	0.1	0.1	**-0.2**	**-0.1**	0.1	0.5	0.4	0.3
50%	0.3	0.4	0.1	**-0.1**	**-0.1**	**-0.2**	**-0.2**	**-0.1**	0.1	0.5	0.4	0.3
60%	0.3	0.4	0.1	**-0.1**	**-0.1**	**-0.1**	**-0.2**	**-0.2**	0.1	0.6	0.3	0.3
70%	0.3	0.4	0.1	**-0.1**	0.0	**-0.2**	**-0.2**	**-0.1**	0.2	0.6	0.4	0.3
80%	0.4	0.5	0.1	**0.0**	0.0	**-0.1**	**-0.2**	**0.0**	0.1	0.5	0.4	0.3
90%	0.4	0.5	0.4	0.0	**-0.1**	0.1	**-0.2**	**-0.1**	0.1	0.5	0.4	0.5
Long Term												
Full Simulation Period[a]	0.3	0.4	0.1	**-0.1**	0.0	**0.0**	**-0.2**	**-0.1**	0.1	0.4	0.4	0.3
Water Year Types[b]												
Wet (31%)	0.3	0.2	0.0	**-0.1**	0.1	0.1	**-0.1**	**-0.1**	0.1	0.3	0.5	0.2
Above Normal (25%)	0.1	0.6	0.1	**-0.1**	0.0	**0.0**	**-0.3**	**-0.2**	0.2	0.4	0.5	0.3
Below Normal (6%)	0.5	0.4	0.4	0.1	0.2	0.2	**-0.2**	**-0.1**	0.1	0.6	0.4	0.6
Dry (13%)	0.2	0.4	0.3	0.0	0.0	**-0.1**	**-0.2**	**-0.1**	0.1	0.7	0.5	0.4
Critical (25%)	0.3	0.3	**0.0**	**-0.1**	**-0.1**	**-0.1**	**-0.2**	**-0.1**	0.1	0.4	0.1	0.3

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-27-1-23. Old River at Tracy Blvd, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	5.0	5.6	6.0	6.2	6.2	5.8	5.3	4.5	4.5	4.4	4.7
20%	4.3	4.1	4.6	5.2	5.3	5.5	5.1	4.8	4.4	4.3	4.3	4.6
30%	4.2	4.0	4.5	4.8	5.1	4.7	4.5	4.7	4.3	4.2	4.2	4.3
40%	4.1	4.0	4.5	4.7	4.6	4.5	4.4	4.5	4.2	4.1	4.1	4.2
50%	4.0	3.9	4.4	4.6	4.5	4.5	4.3	4.4	4.1	4.0	4.1	4.1
60%	3.9	3.9	4.3	4.6	4.4	4.4	4.3	4.4	4.1	3.9	4.1	4.1
70%	3.9	3.8	4.2	4.4	4.2	4.3	4.3	4.3	4.1	3.8	4.0	4.1
80%	3.8	3.7	4.1	4.3	4.2	4.1	4.2	4.2	4.0	3.8	3.9	4.0
90%	3.8	3.6	3.8	4.2	4.2	3.8	4.0	4.1	4.0	3.7	3.9	3.7
Long Term												
Full Simulation Period[a]	4.1	4.1	4.6	4.9	4.9	4.9	4.6	4.6	4.3	4.1	4.1	4.2
Water Year Types[b]												
Wet (31%)	4.3	4.7	5.6	5.6	6.1	6.7	5.5	5.3	4.8	4.6	4.3	4.8
Above Normal (25%)	4.0	3.6	4.3	5.7	5.9	5.2	4.9	4.9	4.2	4.2	4.0	4.1
Below Normal (6%)	3.7	3.9	3.8	4.7	4.5	4.5	4.5	4.5	4.1	3.5	3.9	3.7
Dry (13%)	4.1	3.9	4.2	4.3	4.2	4.3	4.2	4.3	4.2	3.8	4.0	4.1
Critical (25%)	4.0	4.0	4.4	4.4	4.3	4.0	4.1	4.2	4.0	4.0	4.2	4.1

Alternative 7 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.7	5.1	5.3	5.7	5.8	6.0	5.6	5.1	4.7	4.2	4.2	5.0
20%	4.4	4.5	4.7	4.9	5.1	5.3	4.9	4.6	4.5	4.1	4.1	4.7
30%	4.4	4.5	4.5	4.7	4.9	4.7	4.3	4.5	4.5	4.0	4.1	4.4
40%	4.3	4.3	4.5	4.5	4.5	4.4	4.2	4.4	4.3	3.9	4.0	4.2
50%	4.2	4.3	4.4	4.5	4.4	4.3	4.2	4.3	4.3	3.9	4.0	4.1
60%	4.2	4.3	4.4	4.4	4.3	4.2	4.1	4.2	4.2	3.9	4.0	4.1
70%	4.2	4.3	4.3	4.4	4.2	4.1	4.1	4.2	4.2	3.8	3.9	4.1
80%	4.2	4.2	4.3	4.3	4.2	4.0	4.0	4.1	4.2	3.8	3.9	3.9
90%	4.2	4.1	4.2	4.2	4.1	3.9	3.9	4.0	4.1	3.7	3.8	3.8
Long Term												
Full Simulation Period[a]	4.3	4.5	4.6	4.7	4.8	4.8	4.5	4.5	4.4	4.0	4.0	4.3
Water Year Types[b]												
Wet (31%)	4.6	5.0	5.5	5.4	6.0	6.6	5.4	5.2	4.9	4.3	4.2	5.0
Above Normal (25%)	4.1	4.2	4.4	5.4	5.6	5.1	4.7	4.7	4.4	3.9	3.9	4.4
Below Normal (6%)	4.2	4.3	4.2	4.7	4.5	4.4	4.3	4.4	4.2	3.5	3.8	3.8
Dry (13%)	4.3	4.3	4.4	4.3	4.2	4.2	4.1	4.2	4.3	3.8	4.0	4.0
Critical (25%)	4.3	4.3	4.4	4.3	4.2	3.9	3.9	4.1	4.2	4.0	4.0	4.0

Alternative 7 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.3	0.1	-0.2	-0.3	-0.4	-0.2	-0.2	-0.2	0.2	-0.3	-0.2	0.2
20%	0.1	0.4	0.1	-0.2	-0.2	-0.2	-0.2	-0.2	0.1	-0.2	-0.2	0.1
30%	0.2	0.5	0.0	-0.1	-0.1	0.0	-0.2	-0.1	0.1	-0.2	-0.1	0.1
40%	0.2	0.4	0.0	-0.2	-0.1	-0.1	-0.2	-0.1	0.1	-0.1	-0.1	0.0
50%	0.3	0.4	0.1	-0.1	-0.1	-0.2	-0.2	-0.1	0.1	-0.1	-0.1	0.0
60%	0.3	0.4	0.1	-0.1	-0.1	-0.1	-0.2	-0.2	0.1	0.0	-0.1	0.0
70%	0.3	0.4	0.1	-0.1	0.0	-0.2	-0.2	-0.1	0.2	0.0	-0.1	0.0
80%	0.4	0.5	0.1	0.0	0.0	-0.1	-0.2	0.0	0.2	0.0	-0.1	-0.1
90%	0.4	0.5	0.4	0.0	-0.1	0.1	-0.2	-0.1	0.2	-0.1	-0.1	0.1
Long Term												
Full Simulation Period[a]	0.3	0.4	0.1	-0.1	-0.1	-0.1	-0.2	-0.1	0.1	-0.1	-0.1	0.1
Water Year Types[b]												
Wet (31%)	0.3	0.2	-0.1	-0.2	-0.1	-0.1	-0.1	-0.1	0.1	-0.3	-0.1	0.2
Above Normal (25%)	0.1	0.6	0.1	-0.3	-0.3	-0.1	-0.3	-0.2	0.2	-0.3	0.0	0.3
Below Normal (6%)	0.5	0.4	0.4	-0.1	0.0	-0.1	-0.2	-0.1	0.1	0.0	-0.1	0.2
Dry (13%)	0.2	0.4	0.2	0.0	0.0	-0.1	-0.2	-0.1	0.1	0.0	0.0	-0.1
Critical (25%)	0.3	0.3	0.0	-0.1	-0.1	-0.1	-0.2	-0.1	0.1	0.0	-0.3	-0.1

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-27-1-24. Old River at Tracy Blvd, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	5.0	5.6	6.0	6.2	6.2	5.8	5.3	4.5	4.5	4.4	4.7
20%	4.3	4.1	4.6	5.2	5.3	5.5	5.1	4.8	4.4	4.3	4.3	4.6
30%	4.2	4.0	4.5	4.8	5.1	4.7	4.5	4.7	4.3	4.2	4.2	4.3
40%	4.1	4.0	4.5	4.7	4.6	4.5	4.4	4.5	4.2	4.1	4.1	4.2
50%	4.0	3.9	4.4	4.6	4.5	4.5	4.3	4.4	4.1	4.0	4.1	4.1
60%	3.9	3.9	4.3	4.6	4.4	4.4	4.3	4.4	4.1	3.9	4.1	4.1
70%	3.9	3.8	4.2	4.4	4.2	4.3	4.3	4.3	4.1	3.8	4.0	4.1
80%	3.8	3.7	4.1	4.3	4.2	4.1	4.2	4.2	4.0	3.8	3.9	4.0
90%	3.8	3.6	3.8	4.2	4.2	3.8	4.0	4.1	4.0	3.7	3.9	3.7
Long Term												
Full Simulation Period[a]	4.1	4.1	4.6	4.9	4.9	4.9	4.6	4.6	4.3	4.1	4.1	4.2
Water Year Types[b]												
Wet (31%)	4.3	4.7	5.6	5.6	6.1	6.7	5.5	5.3	4.8	4.6	4.3	4.8
Above Normal (25%)	4.0	3.6	4.3	5.7	5.9	5.2	4.9	4.9	4.2	4.2	4.0	4.1
Below Normal (6%)	3.7	3.9	3.8	4.7	4.5	4.5	4.5	4.5	4.1	3.5	3.9	3.7
Dry (13%)	4.1	3.9	4.2	4.3	4.2	4.3	4.2	4.3	4.2	3.8	4.0	4.1
Critical (25%)	4.0	4.0	4.4	4.4	4.3	4.0	4.1	4.2	4.0	4.0	4.2	4.1

Alternative 8 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.7	5.1	5.4	5.6	5.9	6.0	5.6	5.1	4.7	4.5	4.2	5.0
20%	4.4	4.5	4.7	4.9	5.2	5.3	4.9	4.6	4.5	4.4	4.1	4.7
30%	4.4	4.5	4.5	4.7	4.9	4.7	4.3	4.5	4.5	4.3	4.1	4.4
40%	4.3	4.3	4.5	4.6	4.5	4.5	4.2	4.4	4.3	4.3	4.1	4.3
50%	4.2	4.3	4.4	4.5	4.4	4.3	4.2	4.3	4.3	4.2	4.0	4.2
60%	4.2	4.3	4.4	4.4	4.3	4.3	4.1	4.2	4.2	4.1	4.0	4.1
70%	4.2	4.3	4.3	4.4	4.2	4.1	4.1	4.2	4.2	4.0	4.0	4.1
80%	4.2	4.2	4.3	4.3	4.2	4.0	4.0	4.1	4.2	3.9	3.9	4.0
90%	4.2	4.1	4.2	4.2	4.1	3.9	3.9	4.0	4.1	3.8	3.8	3.9
Long Term												
Full Simulation Period[a]	4.3	4.5	4.6	4.7	4.8	4.8	4.5	4.5	4.4	4.2	4.0	4.3
Water Year Types[b]												
Wet (31%)	4.6	5.0	5.4	5.4	5.9	6.7	5.5	5.2	4.9	4.5	4.2	5.0
Above Normal (25%)	4.1	4.1	4.4	5.3	5.7	5.1	4.7	4.7	4.4	4.2	4.0	4.4
Below Normal (6%)	4.2	4.3	4.2	4.7	4.5	4.5	4.3	4.4	4.2	3.8	3.7	3.9
Dry (13%)	4.3	4.3	4.4	4.3	4.2	4.2	4.1	4.2	4.3	4.2	4.0	4.0
Critical (25%)	4.3	4.3	4.4	4.3	4.2	3.9	3.9	4.1	4.2	4.0	4.0	4.1

Alternative 8 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.3	0.1	**-0.2**	**-0.4**	**-0.3**	**-0.2**	**-0.2**	**-0.2**	0.2	0.1	**-0.2**	0.2
20%	0.1	0.4	0.1	**-0.3**	**-0.1**	**-0.2**	**-0.2**	**-0.2**	0.1	0.1	**-0.2**	0.1
30%	0.2	0.5	**0.0**	**-0.1**	**-0.1**	**0.0**	**-0.2**	**-0.1**	0.1	0.1	**-0.1**	0.1
40%	0.2	0.4	0.0	**-0.2**	**0.0**	**-0.1**	**-0.1**	**-0.1**	0.1	0.2	**-0.1**	0.1
50%	0.3	0.4	0.1	**-0.1**	**-0.1**	**-0.2**	**-0.2**	**-0.1**	0.1	0.2	**-0.1**	0.0
60%	0.3	0.4	0.1	**-0.1**	**-0.1**	**-0.1**	**-0.2**	**-0.2**	0.2	0.3	**-0.1**	**0.0**
70%	0.3	0.4	0.1	**-0.1**	0.0	**-0.2**	**-0.1**	**-0.1**	0.2	0.2	**0.0**	0.0
80%	0.4	0.5	0.1	**0.0**	0.0	**-0.1**	**-0.2**	**0.0**	0.2	0.1	**0.0**	0.0
90%	0.4	0.5	0.4	0.0	**-0.1**	0.1	**-0.1**	**-0.1**	0.2	0.1	**0.0**	0.1
Long Term												
Full Simulation Period[a]	0.3	0.4	0.1	**-0.1**	**-0.1**	**-0.1**	**-0.2**	**-0.1**	0.1	0.1	**-0.1**	0.1
Water Year Types[b]												
Wet (31%)	0.3	0.2	**-0.1**	**-0.2**	**-0.2**	**0.0**	**-0.1**	**-0.1**	0.1	**-0.1**	**-0.1**	0.2
Above Normal (25%)	0.1	0.6	0.1	**-0.4**	**-0.2**	**-0.1**	**-0.2**	**-0.2**	0.2	0.0	**0.0**	0.4
Below Normal (6%)	0.5	0.4	0.4	**-0.1**	**0.0**	**0.0**	**-0.2**	**-0.1**	0.1	0.2	**-0.1**	0.2
Dry (13%)	0.2	0.4	0.2	0.0	0.0	**-0.1**	**-0.1**	**-0.1**	0.1	0.4	0.0	**0.0**
Critical (25%)	0.3	0.3	**0.0**	**-0.1**	**-0.1**	**-0.1**	**-0.2**	**-0.1**	0.1	0.0	**-0.2**	**0.0**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-27-1-25. Old River at Tracy Blvd, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	5.0	5.6	6.0	6.2	6.2	5.8	5.3	4.5	4.5	4.4	4.7
20%	4.3	4.1	4.6	5.2	5.3	5.5	5.1	4.8	4.4	4.3	4.3	4.6
30%	4.2	4.0	4.5	4.8	5.1	4.7	4.5	4.7	4.3	4.2	4.2	4.3
40%	4.1	4.0	4.5	4.7	4.6	4.5	4.4	4.5	4.2	4.1	4.1	4.2
50%	4.0	3.9	4.4	4.6	4.5	4.5	4.3	4.4	4.1	4.0	4.1	4.1
60%	3.9	3.9	4.3	4.6	4.4	4.4	4.3	4.4	4.1	3.9	4.1	4.1
70%	3.9	3.8	4.2	4.4	4.2	4.3	4.3	4.3	4.1	3.8	4.0	4.1
80%	3.8	3.7	4.1	4.3	4.2	4.1	4.2	4.2	4.0	3.8	3.9	4.0
90%	3.8	3.6	3.8	4.2	4.2	3.8	4.0	4.1	4.0	3.7	3.9	3.7
Long Term												
Full Simulation Period[a]	4.1	4.1	4.6	4.9	4.9	4.9	4.6	4.6	4.3	4.1	4.1	4.2
Water Year Types[b]												
Wet (31%)	4.3	4.7	5.6	5.6	6.1	6.7	5.5	5.3	4.8	4.6	4.3	4.8
Above Normal (25%)	4.0	3.6	4.3	5.7	5.9	5.2	4.9	4.9	4.2	4.2	4.0	4.1
Below Normal (6%)	3.7	3.9	3.8	4.7	4.5	4.5	4.5	4.5	4.1	3.5	3.9	3.7
Dry (13%)	4.1	3.9	4.2	4.3	4.2	4.3	4.2	4.3	4.2	3.8	4.0	4.1
Critical (25%)	4.0	4.0	4.4	4.4	4.3	4.0	4.1	4.2	4.0	4.0	4.2	4.1

Alternative 9 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.8	5.1	5.4	5.8	6.3	6.1	5.6	5.2	4.8	4.8	4.7	5.1
20%	4.6	4.7	4.7	5.1	5.5	5.3	4.9	5.0	4.7	4.7	4.6	4.8
30%	4.4	4.5	4.5	5.0	5.2	5.1	4.6	4.7	4.6	4.6	4.6	4.5
40%	4.4	4.4	4.5	4.7	4.9	4.9	4.4	4.6	4.3	4.4	4.5	4.5
50%	4.4	4.4	4.4	4.6	4.5	4.4	4.3	4.5	4.3	4.4	4.4	4.5
60%	4.3	4.3	4.4	4.5	4.4	4.3	4.3	4.3	4.2	4.3	4.4	4.5
70%	4.3	4.3	4.3	4.4	4.3	4.2	4.1	4.3	4.1	4.3	4.3	4.3
80%	4.2	4.2	4.2	4.3	4.3	4.0	4.1	4.2	4.1	4.2	4.2	4.3
90%	4.2	4.1	4.2	4.2	4.1	3.9	3.9	4.0	4.0	4.1	4.1	4.2
Long Term												
Full Simulation Period[a]	4.4	4.5	4.7	4.9	5.0	5.0	4.5	4.6	4.4	4.5	4.5	4.6
Water Year Types[b]												
Wet (31%)	4.7	4.9	5.5	5.6	6.2	6.9	5.5	5.4	5.0	4.9	4.8	5.2
Above Normal (25%)	4.1	4.2	4.4	5.6	6.0	5.3	4.8	4.9	4.6	4.7	4.5	4.5
Below Normal (6%)	4.3	4.4	4.2	5.0	4.9	4.9	4.5	4.7	4.3	4.1	4.3	4.3
Dry (13%)	4.5	4.4	4.4	4.4	4.3	4.3	4.2	4.3	4.2	4.3	4.4	4.4
Critical (25%)	4.3	4.3	4.4	4.3	4.2	3.9	3.9	4.1	4.0	4.2	4.3	4.3

Alternative 9 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.4	0.0	-0.1	-0.2	0.1	-0.1	-0.2	-0.1	0.3	0.4	0.3	0.4
20%	0.3	0.6	0.1	0.0	0.2	-0.2	-0.2	0.2	0.3	0.4	0.3	0.2
30%	0.3	0.5	0.0	0.2	0.2	0.4	0.1	0.0	0.2	0.4	0.4	0.3
40%	0.3	0.5	0.0	-0.1	0.3	0.3	0.1	0.1	0.1	0.3	0.3	0.3
50%	0.4	0.5	0.1	0.0	0.0	-0.1	0.0	0.0	0.1	0.4	0.3	0.3
60%	0.4	0.5	0.1	-0.1	0.0	-0.1	0.0	-0.1	0.1	0.4	0.3	0.3
70%	0.4	0.5	0.1	-0.1	0.1	-0.1	-0.2	0.0	0.0	0.4	0.3	0.3
80%	0.4	0.5	0.1	0.0	0.1	-0.1	-0.1	0.1	0.1	0.4	0.3	0.3
90%	0.4	0.5	0.4	0.0	0.0	0.1	-0.1	-0.1	0.0	0.4	0.3	0.5
Long Term												
Full Simulation Period[a]	0.3	0.4	0.1	0.0	0.1	0.0	-0.1	0.0	0.1	0.4	0.3	0.3
Water Year Types[b]												
Wet (31%)	0.4	0.2	0.0	0.0	0.2	0.2	0.0	0.0	0.2	0.3	0.5	0.4
Above Normal (25%)	0.1	0.6	0.1	0.0	0.1	0.1	-0.1	0.0	0.4	0.5	0.6	0.5
Below Normal (6%)	0.6	0.5	0.5	0.2	0.3	0.4	0.0	0.2	0.2	0.6	0.4	0.6
Dry (13%)	0.4	0.5	0.3	0.1	0.1	0.0	-0.1	0.0	0.0	0.5	0.4	0.4
Critical (25%)	0.3	0.4	0.0	-0.1	-0.1	-0.1	-0.2	-0.1	0.0	0.2	0.0	0.2

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-27-2-1. Old River at Tracy Blvd, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	2.6	1.2	1.7	2.7	3.1	2.3	1.8	3.2	2.8	2.0	2.3
20%	1.6	1.5	-0.4	0.3	1.6	1.6	1.0	1.0	3.0	2.0	1.8	1.7
30%	1.5	1.3	-0.5	0.0	0.6	0.6	0.2	0.5	2.3	1.6	1.6	1.6
40%	1.4	1.3	-0.6	-0.3	0.3	0.2	-0.1	0.1	1.7	1.1	1.5	1.4
50%	1.4	1.3	-0.7	-0.4	-0.3	-0.2	-0.3	-0.1	1.2	1.1	1.3	1.4
60%	1.4	1.2	-0.7	-0.5	-0.4	-0.3	-0.4	-0.2	1.1	1.1	1.2	1.4
70%	1.3	1.2	-0.7	-0.5	-0.5	-0.5	-0.5	-0.3	1.0	0.9	1.2	1.3
80%	1.2	1.2	-0.8	-0.6	-0.5	-0.6	-0.6	-0.4	0.9	0.8	1.1	1.3
90%	1.2	1.2	-0.9	-0.7	-0.6	-0.7	-0.7	-0.4	0.9	0.8	1.1	1.3
Long Term												
Full Simulation Period[a]	1.5	1.6	-0.2	0.1	0.6	0.8	0.3	0.4	1.8	1.5	1.5	1.6
Water Year Types[b]												
Wet (31%)	1.8	2.5	1.3	1.4	2.6	3.5	2.1	1.8	3.0	2.4	2.2	2.4
Above Normal (25%)	1.3	1.2	-0.7	0.9	1.9	1.3	0.8	0.8	3.1	2.4	1.8	1.6
Below Normal (6%)	1.2	1.3	-0.8	-0.1	0.3	0.5	0.1	0.6	1.7	1.1	1.5	1.4
Dry (13%)	1.4	1.3	-0.7	-0.6	-0.5	-0.4	-0.5	-0.2	1.1	1.0	1.2	1.3
Critical (25%)	1.3	1.3	-0.7	-0.6	-0.5	-0.6	-0.6	-0.4	1.0	0.8	1.2	1.3

No Action Alternative (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.5	3.2	2.3	3.1	3.7	4.1	3.3	2.7	2.7	2.5	2.3	2.8
20%	2.3	2.1	0.8	1.5	2.5	3.1	2.1	1.7	2.5	2.3	2.2	2.5
30%	2.2	2.1	0.7	1.2	1.7	1.6	1.3	1.5	2.4	2.2	2.2	2.3
40%	2.2	2.1	0.7	0.9	1.2	1.4	1.0	1.1	2.2	2.0	2.1	2.2
50%	2.1	2.0	0.6	0.8	0.8	0.9	0.8	1.0	2.0	1.9	2.1	2.2
60%	2.1	1.9	0.6	0.6	0.7	0.8	0.7	0.9	1.9	1.8	2.1	2.1
70%	2.1	1.9	0.5	0.6	0.7	0.7	0.7	0.9	1.9	1.8	2.0	2.1
80%	2.0	1.9	0.4	0.5	0.7	0.5	0.6	0.8	1.8	1.8	2.0	2.1
90%	2.0	1.9	0.3	0.5	0.6	0.4	0.4	0.8	1.8	1.7	2.0	2.0
Long Term												
Full Simulation Period[a]	2.2	2.2	1.0	1.3	1.7	1.9	1.4	1.5	2.2	2.0	2.2	2.3
Water Year Types[b]												
Wet (31%)	2.6	3.0	2.5	2.5	3.5	4.6	3.0	2.6	2.8	2.4	2.4	2.9
Above Normal (25%)	2.1	1.9	0.7	2.4	3.1	2.5	1.9	2.1	2.6	2.4	2.2	2.3
Below Normal (6%)	2.1	2.1	0.3	1.1	1.2	1.4	1.2	1.4	2.2	1.8	2.1	2.0
Dry (13%)	2.2	2.0	0.5	0.6	0.6	0.7	0.7	0.9	1.9	1.8	2.0	2.1
Critical (25%)	2.1	2.0	0.6	0.6	0.7	0.6	0.6	0.8	1.8	1.8	2.1	2.1

No Action Alternative (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.8	0.6	1.1	1.4	1.0	1.0	1.0	0.9	**-0.6**	**-0.3**	0.3	0.5
20%	0.7	0.7	1.2	1.2	0.9	1.4	1.1	0.7	**-0.5**	0.3	0.5	0.8
30%	0.7	0.7	1.2	1.2	1.1	1.0	1.1	0.9	0.1	0.7	0.5	0.7
40%	0.8	0.8	1.3	1.2	1.0	1.2	1.0	1.0	0.6	0.8	0.7	0.8
50%	0.8	0.7	1.3	1.3	1.1	1.2	1.1	1.1	0.8	0.8	0.8	0.8
60%	0.7	0.7	1.3	1.2	1.1	1.2	1.2	1.1	0.8	0.8	0.8	0.7
70%	0.8	0.7	1.2	1.2	1.2	1.2	1.2	1.1	0.8	0.9	0.9	0.8
80%	0.8	0.7	1.2	1.2	1.2	1.2	1.2	1.2	0.9	1.0	0.9	0.8
90%	0.8	0.7	1.2	1.1	1.2	1.2	1.2	1.2	0.9	0.9	0.8	0.8
Long Term												
Full Simulation Period[a]	0.8	0.7	1.2	1.2	1.1	1.1	1.1	1.1	0.4	0.6	0.6	0.7
Water Year Types[b]												
Wet (31%)	0.8	0.5	1.2	1.1	0.9	1.1	0.9	0.8	**-0.3**	0.0	0.2	0.5
Above Normal (25%)	0.8	0.7	1.3	1.5	1.3	1.2	1.1	1.3	**-0.5**	0.0	0.5	0.7
Below Normal (6%)	0.8	0.8	1.1	1.2	1.0	0.9	1.1	0.8	0.6	0.7	0.6	0.6
Dry (13%)	0.8	0.7	1.2	1.2	1.1	1.2	1.1	1.1	0.8	0.8	0.8	0.8
Critical (25%)	0.7	0.7	1.3	1.2	1.2	1.2	1.2	1.2	0.9	1.0	0.9	0.8

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

Table C-27-2-2. Old River at Tracy Blvd, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	2.6	1.2	1.7	2.7	3.1	2.3	1.8	3.2	2.8	2.0	2.3
20%	1.6	1.5	-0.4	0.3	1.6	1.6	1.0	1.0	3.0	2.0	1.8	1.7
30%	1.5	1.3	-0.5	0.0	0.6	0.6	0.2	0.5	2.3	1.6	1.6	1.6
40%	1.4	1.3	-0.6	-0.3	0.3	0.2	-0.1	0.1	1.7	1.1	1.5	1.4
50%	1.4	1.3	-0.7	-0.4	-0.3	-0.2	-0.3	-0.1	1.2	1.1	1.3	1.4
60%	1.4	1.2	-0.7	-0.5	-0.4	-0.3	-0.4	-0.2	1.1	1.1	1.2	1.4
70%	1.3	1.2	-0.7	-0.5	-0.5	-0.5	-0.5	-0.3	1.0	0.9	1.2	1.3
80%	1.2	1.2	-0.8	-0.6	-0.5	-0.6	-0.6	-0.4	0.9	0.8	1.1	1.3
90%	1.2	1.2	-0.9	-0.7	-0.6	-0.7	-0.7	-0.4	0.9	0.8	1.1	1.3
Long Term												
Full Simulation Period[a]	1.5	1.6	-0.2	0.1	0.6	0.8	0.3	0.4	1.8	1.5	1.5	1.6
Water Year Types[b]												
Wet (31%)	1.8	2.5	1.3	1.4	2.6	3.5	2.1	1.8	3.0	2.4	2.2	2.4
Above Normal (25%)	1.3	1.2	-0.7	0.9	1.9	1.3	0.8	0.8	3.1	2.4	1.8	1.6
Below Normal (6%)	1.2	1.3	-0.8	-0.1	0.3	0.5	0.1	0.6	1.7	1.1	1.5	1.4
Dry (13%)	1.4	1.3	-0.7	-0.6	-0.5	-0.4	-0.5	-0.2	1.1	1.0	1.2	1.3
Critical (25%)	1.3	1.3	-0.7	-0.6	-0.5	-0.6	-0.6	-0.4	1.0	0.8	1.2	1.3

Alternative 1A,1B,1C (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.6	2.0	3.0	3.6	4.3	4.6	3.7	2.7	1.4	1.4	1.4	1.6
20%	1.3	1.2	1.3	2.0	3.2	3.6	2.3	1.5	1.2	1.3	1.4	1.4
30%	1.2	1.2	1.2	1.7	2.4	2.3	1.4	1.4	1.2	1.2	1.3	1.4
40%	1.2	1.1	1.1	1.4	1.7	2.0	1.1	1.2	1.1	1.2	1.2	1.3
50%	1.1	1.1	1.0	1.2	1.2	1.3	1.1	1.1	1.0	1.1	1.2	1.3
60%	1.1	1.1	1.0	1.1	1.2	1.2	1.1	1.1	1.0	1.1	1.2	1.3
70%	1.1	1.0	0.9	1.0	1.1	1.1	1.0	1.0	1.0	1.1	1.1	1.3
80%	1.1	0.9	0.7	1.0	1.0	0.9	1.0	0.9	1.0	1.1	1.1	1.3
90%	1.0	0.9	0.7	1.0	1.0	0.9	0.8	0.9	0.9	1.0	1.1	1.1
Long Term												
Full Simulation Period[a]	1.3	1.3	1.5	1.8	2.2	2.4	1.7	1.6	1.3	1.2	1.2	1.4
Water Year Types[b]												
Wet (31%)	1.6	2.0	3.0	3.1	4.2	5.2	3.4	2.8	2.0	1.6	1.4	1.8
Above Normal (25%)	1.2	1.1	1.1	2.9	3.7	3.1	2.2	1.8	1.1	1.2	1.2	1.3
Below Normal (6%)	1.1	1.2	0.7	1.5	1.7	2.1	1.3	1.3	1.1	1.1	1.1	1.1
Dry (13%)	1.1	1.0	0.9	1.1	1.1	1.1	1.0	1.1	1.0	1.0	1.1	1.2
Critical (25%)	1.2	1.0	1.0	1.1	1.1	1.0	0.9	0.9	0.9	1.1	1.2	1.3

Alternative 1A,1B,1C (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.1	-0.6	1.8	2.0	1.6	1.6	1.4	0.9	-1.9	-1.4	-0.6	-0.7
20%	-0.3	-0.3	1.7	1.7	1.6	2.0	1.3	0.5	-1.9	-0.7	-0.4	-0.3
30%	-0.3	-0.2	1.8	1.8	1.8	1.7	1.2	0.9	-1.2	-0.3	-0.3	-0.2
40%	-0.3	-0.2	1.6	1.7	1.5	1.8	1.2	1.1	-0.6	0.0	-0.3	-0.1
50%	-0.2	-0.2	1.7	1.6	1.6	1.5	1.4	1.2	-0.1	0.0	-0.2	-0.1
60%	-0.2	-0.2	1.7	1.6	1.6	1.5	1.5	1.3	-0.1	0.0	-0.1	-0.1
70%	-0.2	-0.3	1.6	1.6	1.6	1.6	1.5	1.3	0.0	0.2	0.0	0.0
80%	-0.2	-0.3	1.5	1.6	1.5	1.6	1.6	1.3	0.0	0.2	0.0	0.0
90%	-0.2	-0.3	1.5	1.7	1.6	1.6	1.5	1.3	0.1	0.2	0.0	-0.2
Long Term												
Full Simulation Period[a]	-0.2	-0.3	1.7	1.7	1.6	1.6	1.4	1.1	-0.6	-0.3	-0.3	-0.2
Water Year Types[b]												
Wet (31%)	-0.3	-0.5	1.7	1.7	1.6	1.6	1.3	1.0	-1.0	-0.8	-0.8	-0.6
Above Normal (25%)	-0.2	-0.1	1.7	2.0	1.8	1.7	1.4	1.1	-2.0	-1.2	-0.5	-0.3
Below Normal (6%)	-0.1	-0.2	1.4	1.6	1.5	1.6	1.2	0.6	-0.5	0.0	-0.4	-0.3
Dry (13%)	-0.3	-0.3	1.7	1.7	1.6	1.5	1.5	1.3	-0.1	0.0	-0.1	-0.1
Critical (25%)	-0.2	-0.2	1.6	1.6	1.5	1.6	1.5	1.3	0.0	0.3	0.0	0.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-27-2-3. Old River at Tracy Blvd, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	2.6	1.2	1.7	2.7	3.1	2.3	1.8	3.2	2.8	2.0	2.3
20%	1.6	1.5	-0.4	0.3	1.6	1.6	1.0	1.0	3.0	2.0	1.8	1.7
30%	1.5	1.3	-0.5	0.0	0.6	0.6	0.2	0.5	2.3	1.6	1.6	1.6
40%	1.4	1.3	-0.6	-0.3	0.3	0.2	-0.1	0.1	1.7	1.1	1.5	1.4
50%	1.4	1.3	-0.7	-0.4	-0.3	-0.2	-0.3	-0.1	1.2	1.1	1.3	1.4
60%	1.4	1.2	-0.7	-0.5	-0.4	-0.3	-0.4	-0.2	1.1	1.1	1.2	1.4
70%	1.3	1.2	-0.7	-0.5	-0.5	-0.5	-0.5	-0.3	1.0	0.9	1.2	1.3
80%	1.2	1.2	-0.8	-0.6	-0.5	-0.6	-0.6	-0.4	0.9	0.8	1.1	1.3
90%	1.2	1.2	-0.9	-0.7	-0.6	-0.7	-0.7	-0.4	0.9	0.8	1.1	1.3
Long Term												
Full Simulation Period[a]	1.5	1.6	-0.2	0.1	0.6	0.8	0.3	0.4	1.8	1.5	1.5	1.6
Water Year Types[b]												
Wet (31%)	1.8	2.5	1.3	1.4	2.6	3.5	2.1	1.8	3.0	2.4	2.2	2.4
Above Normal (25%)	1.3	1.2	-0.7	0.9	1.9	1.3	0.8	0.8	3.1	2.4	1.8	1.6
Below Normal (6%)	1.2	1.3	-0.8	-0.1	0.3	0.5	0.1	0.6	1.7	1.1	1.5	1.4
Dry (13%)	1.4	1.3	-0.7	-0.6	-0.5	-0.4	-0.5	-0.2	1.1	1.0	1.2	1.3
Critical (25%)	1.3	1.3	-0.7	-0.6	-0.5	-0.6	-0.6	-0.4	1.0	0.8	1.2	1.3

Alternative 2A,2B,2C (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.5	3.3	3.1	3.5	4.2	4.6	3.7	2.9	2.6	2.6	2.6	3.1
20%	2.3	2.4	1.3	1.8	3.1	3.6	2.4	1.4	2.4	2.5	2.4	2.8
30%	2.2	2.4	1.1	1.5	2.2	2.0	1.3	1.3	2.4	2.3	2.4	2.6
40%	2.2	2.3	1.1	1.2	1.4	1.5	1.1	1.2	2.2	2.2	2.4	2.4
50%	2.2	2.2	1.0	1.1	1.1	1.2	1.0	1.1	2.1	2.2	2.3	2.4
60%	2.2	2.2	1.0	1.1	1.1	1.1	1.0	1.1	2.0	2.1	2.3	2.4
70%	2.1	2.2	0.9	1.0	1.0	1.0	0.9	1.0	2.0	2.1	2.2	2.3
80%	2.1	2.1	0.9	1.0	0.9	0.8	0.9	0.9	2.0	2.0	2.2	2.3
90%	2.0	2.1	0.8	1.0	0.9	0.8	0.7	0.9	1.9	2.0	2.1	2.2
Long Term												
Full Simulation Period[a]	2.3	2.5	1.5	1.7	2.1	2.3	1.6	1.6	2.3	2.3	2.4	2.6
Water Year Types[b]												
Wet (31%)	2.5	3.3	3.1	3.0	4.0	5.1	3.3	2.8	2.9	2.6	2.7	3.2
Above Normal (25%)	2.1	2.1	1.1	2.7	3.6	3.0	2.0	2.0	2.5	2.4	2.4	2.6
Below Normal (6%)	2.2	2.4	0.7	1.3	1.4	1.5	1.2	1.2	2.2	2.2	2.3	2.3
Dry (13%)	2.2	2.3	1.0	1.0	0.9	1.0	0.9	1.0	2.0	2.1	2.2	2.3
Critical (25%)	2.1	2.2	1.0	1.0	1.0	0.9	0.8	0.9	1.9	2.1	2.2	2.3

Alternative 2A,2B,2C (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.8	0.7	1.8	1.9	1.5	1.6	1.3	1.1	**-0.6**	**-0.2**	0.5	0.8
20%	0.8	0.9	1.7	1.5	1.5	1.9	1.3	0.4	**-0.6**	0.5	0.7	1.1
30%	0.7	1.0	1.7	1.6	1.5	1.4	1.1	0.8	0.0	0.7	0.8	1.1
40%	0.8	1.0	1.7	1.5	1.2	1.3	1.2	1.1	0.6	1.1	0.9	1.0
50%	0.8	0.9	1.7	1.6	1.4	1.4	1.3	1.2	0.9	1.1	1.0	1.0
60%	0.8	1.0	1.7	1.6	1.5	1.4	1.4	1.3	0.9	1.1	1.0	1.0
70%	0.9	0.9	1.7	1.6	1.5	1.5	1.5	1.3	1.0	1.2	1.1	1.0
80%	0.8	0.9	1.7	1.6	1.5	1.5	1.5	1.3	1.0	1.2	1.1	1.0
90%	0.8	0.9	1.7	1.6	1.5	1.5	1.4	1.3	1.1	1.2	1.0	1.0
Long Term												
Full Simulation Period[a]	0.8	0.9	1.7	1.6	1.5	1.5	1.3	1.1	0.5	0.8	0.8	1.0
Water Year Types[b]												
Wet (31%)	0.7	0.8	1.8	1.6	1.4	1.6	1.3	0.9	**-0.1**	0.2	0.4	0.8
Above Normal (25%)	0.8	0.9	1.8	1.9	1.7	1.6	1.2	1.2	**-0.6**	0.1	0.7	1.1
Below Normal (6%)	0.9	1.0	1.5	1.4	1.2	1.0	1.1	0.6	0.6	1.1	0.8	0.9
Dry (13%)	0.8	0.9	1.7	1.6	1.4	1.4	1.4	1.3	1.0	1.1	1.0	1.0
Critical (25%)	0.8	0.9	1.6	1.6	1.5	1.5	1.4	1.3	1.0	1.3	1.1	1.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-27-2-4. Old River at Tracy Blvd, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	2.6	1.2	1.7	2.7	3.1	2.3	1.8	3.2	2.8	2.0	2.3
20%	1.6	1.5	-0.4	0.3	1.6	1.6	1.0	1.0	3.0	2.0	1.8	1.7
30%	1.5	1.3	-0.5	0.0	0.6	0.6	0.2	0.5	2.3	1.6	1.6	1.6
40%	1.4	1.3	-0.6	-0.3	0.3	0.2	-0.1	0.1	1.7	1.1	1.5	1.4
50%	1.4	1.3	-0.7	-0.4	-0.3	-0.2	-0.3	-0.1	1.2	1.1	1.3	1.4
60%	1.4	1.2	-0.7	-0.5	-0.4	-0.3	-0.4	-0.2	1.1	1.1	1.2	1.4
70%	1.3	1.2	-0.7	-0.5	-0.5	-0.5	-0.5	-0.3	1.0	0.9	1.2	1.3
80%	1.2	1.2	-0.8	-0.6	-0.5	-0.6	-0.6	-0.4	0.9	0.8	1.1	1.3
90%	1.2	1.2	-0.9	-0.7	-0.6	-0.7	-0.7	-0.4	0.9	0.8	1.1	1.3
Long Term												
Full Simulation Period[a]	1.5	1.6	-0.2	0.1	0.6	0.8	0.3	0.4	1.8	1.5	1.5	1.6
Water Year Types[b]												
Wet (31%)	1.8	2.5	1.3	1.4	2.6	3.5	2.1	1.8	3.0	2.4	2.2	2.4
Above Normal (25%)	1.3	1.2	-0.7	0.9	1.9	1.3	0.8	0.8	3.1	2.4	1.8	1.6
Below Normal (6%)	1.2	1.3	-0.8	-0.1	0.3	0.5	0.1	0.6	1.7	1.1	1.5	1.4
Dry (13%)	1.4	1.3	-0.7	-0.6	-0.5	-0.4	-0.5	-0.2	1.1	1.0	1.2	1.3
Critical (25%)	1.3	1.3	-0.7	-0.6	-0.5	-0.6	-0.6	-0.4	1.0	0.8	1.2	1.3

Alternative 3 (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.5	1.8	2.9	3.5	4.1	4.6	3.5	2.6	1.3	1.4	1.4	1.6
20%	1.3	1.1	1.2	1.9	3.1	3.5	2.3	1.5	1.2	1.4	1.4	1.4
30%	1.2	1.1	1.2	1.5	2.2	2.2	1.4	1.4	1.2	1.2	1.3	1.4
40%	1.2	1.1	1.0	1.4	1.7	1.8	1.1	1.2	1.1	1.1	1.2	1.3
50%	1.1	1.0	1.0	1.2	1.3	1.3	1.1	1.1	1.0	1.1	1.2	1.3
60%	1.1	1.0	0.9	1.2	1.2	1.2	1.0	1.1	1.0	1.1	1.2	1.3
70%	1.1	1.0	0.9	1.1	1.1	1.1	1.0	1.0	1.0	1.1	1.1	1.2
80%	1.1	1.0	0.9	1.0	1.0	0.9	1.0	0.9	1.0	1.0	1.1	1.2
90%	1.0	0.9	0.6	1.0	1.0	0.9	0.8	0.9	0.9	0.9	1.0	1.1
Long Term												
Full Simulation Period[a]	1.2	1.2	1.4	1.8	2.2	2.4	1.7	1.5	1.2	1.2	1.2	1.3
Water Year Types[b]												
Wet (31%)	1.6	1.9	3.0	2.9	4.1	5.1	3.2	2.7	1.9	1.5	1.4	1.6
Above Normal (25%)	1.1	1.0	1.1	2.8	3.6	3.0	2.1	1.8	1.1	1.2	1.2	1.3
Below Normal (6%)	1.1	1.0	0.7	1.5	1.7	2.0	1.3	1.3	1.1	1.1	1.1	1.1
Dry (13%)	1.1	1.0	0.9	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.2	1.2
Critical (25%)	1.1	1.1	0.9	1.1	1.1	1.0	0.9	0.9	0.9	1.1	1.2	1.3

Alternative 3 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.2	-0.8	1.6	1.8	1.4	1.5	1.2	0.8	-2.0	-1.4	-0.6	-0.7
20%	-0.3	-0.4	1.6	1.6	1.4	1.8	1.2	0.5	-1.9	-0.6	-0.4	-0.3
30%	-0.3	-0.3	1.7	1.6	1.6	1.6	1.2	0.9	-1.2	-0.3	-0.3	-0.2
40%	-0.3	-0.2	1.6	1.7	1.4	1.6	1.2	1.1	-0.5	0.0	-0.3	-0.1
50%	-0.2	-0.2	1.7	1.7	1.6	1.5	1.4	1.2	-0.1	0.0	-0.2	-0.1
60%	-0.2	-0.2	1.6	1.7	1.6	1.5	1.5	1.3	-0.1	0.0	-0.1	-0.1
70%	-0.2	-0.3	1.6	1.6	1.6	1.6	1.5	1.3	0.0	0.2	0.0	-0.1
80%	-0.1	-0.3	1.6	1.7	1.6	1.6	1.6	1.3	0.0	0.2	0.0	0.0
90%	-0.2	-0.3	1.5	1.7	1.6	1.6	1.5	1.3	0.1	0.1	-0.1	-0.2
Long Term												
Full Simulation Period[a]	-0.2	-0.3	1.6	1.7	1.5	1.6	1.4	1.1	-0.6	-0.3	-0.3	-0.3
Water Year Types[b]												
Wet (31%)	-0.3	-0.6	1.6	1.5	1.5	1.5	1.2	0.9	-1.1	-0.8	-0.8	-0.7
Above Normal (25%)	-0.2	-0.2	1.7	1.9	1.7	1.7	1.3	1.1	-2.0	-1.2	-0.5	-0.3
Below Normal (6%)	-0.1	-0.3	1.4	1.6	1.4	1.5	1.2	0.6	-0.5	0.0	-0.4	-0.3
Dry (13%)	-0.3	-0.3	1.6	1.7	1.6	1.5	1.4	1.3	0.0	0.0	0.0	-0.1
Critical (25%)	-0.2	-0.2	1.6	1.7	1.6	1.6	1.5	1.3	0.0	0.3	0.0	0.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-27-2-5. Old River at Tracy Blvd, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	2.6	1.2	1.7	2.7	3.1	2.3	1.8	3.2	2.8	2.0	2.3
20%	1.6	1.5	-0.4	0.3	1.6	1.6	1.0	1.0	3.0	2.0	1.8	1.7
30%	1.5	1.3	-0.5	0.0	0.6	0.6	0.2	0.5	2.3	1.6	1.6	1.6
40%	1.4	1.3	-0.6	-0.3	0.3	0.2	-0.1	0.1	1.7	1.1	1.5	1.4
50%	1.4	1.3	-0.7	-0.4	-0.3	-0.2	-0.3	-0.1	1.2	1.1	1.3	1.4
60%	1.4	1.2	-0.7	-0.5	-0.4	-0.3	-0.4	-0.2	1.1	1.1	1.2	1.4
70%	1.3	1.2	-0.7	-0.5	-0.5	-0.5	-0.5	-0.3	1.0	0.9	1.2	1.3
80%	1.2	1.2	-0.8	-0.6	-0.5	-0.6	-0.6	-0.4	0.9	0.8	1.1	1.3
90%	1.2	1.2	-0.9	-0.7	-0.6	-0.7	-0.7	-0.4	0.9	0.8	1.1	1.3
Long Term												
Full Simulation Period[a]	1.5	1.6	-0.2	0.1	0.6	0.8	0.3	0.4	1.8	1.5	1.5	1.6
Water Year Types[b]												
Wet (31%)	1.8	2.5	1.3	1.4	2.6	3.5	2.1	1.8	3.0	2.4	2.2	2.4
Above Normal (25%)	1.3	1.2	-0.7	0.9	1.9	1.3	0.8	0.8	3.1	2.4	1.8	1.6
Below Normal (6%)	1.2	1.3	-0.8	-0.1	0.3	0.5	0.1	0.6	1.7	1.1	1.5	1.4
Dry (13%)	1.4	1.3	-0.7	-0.6	-0.5	-0.4	-0.5	-0.2	1.1	1.0	1.2	1.3
Critical (25%)	1.3	1.3	-0.7	-0.6	-0.5	-0.6	-0.6	-0.4	1.0	0.8	1.2	1.3

Alternative 4 H1 (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.5	3.3	2.9	3.4	4.1	4.5	3.7	2.9	2.6	2.6	2.6	2.9
20%	2.3	2.3	1.2	1.7	2.9	3.6	2.4	1.4	2.4	2.5	2.4	2.6
30%	2.2	2.2	1.1	1.4	2.1	2.0	1.3	1.3	2.4	2.3	2.4	2.5
40%	2.2	2.2	1.1	1.2	1.4	1.6	1.1	1.2	2.2	2.2	2.4	2.4
50%	2.2	2.2	1.1	1.1	1.1	1.2	1.0	1.1	2.1	2.2	2.3	2.4
60%	2.1	2.2	1.0	1.0	1.1	1.1	1.0	1.1	2.0	2.1	2.3	2.4
70%	2.1	2.1	1.0	1.0	1.0	1.0	0.9	1.0	2.0	2.1	2.2	2.3
80%	2.1	2.1	1.0	1.0	0.9	0.8	0.9	0.9	2.0	2.0	2.2	2.3
90%	2.0	2.0	0.8	0.9	0.9	0.8	0.7	0.9	1.9	2.0	2.1	2.2
Long Term												
Full Simulation Period[a]	2.2	2.4	1.5	1.7	2.1	2.3	1.6	1.6	2.3	2.3	2.4	2.5
Water Year Types[b]												
Wet (31%)	2.5	3.3	3.0	2.9	3.9	5.0	3.3	2.8	2.9	2.6	2.6	3.0
Above Normal (25%)	2.1	2.1	1.1	2.6	3.5	3.0	2.0	2.0	2.5	2.4	2.4	2.5
Below Normal (6%)	2.2	2.2	0.7	1.3	1.4	1.7	1.2	1.2	2.2	2.2	2.3	2.3
Dry (13%)	2.2	2.2	1.0	1.0	0.9	1.0	0.9	1.0	2.0	2.1	2.2	2.3
Critical (25%)	2.1	2.1	1.0	0.9	1.0	0.9	0.8	0.9	2.0	2.1	2.2	2.3

Alternative 4 H1 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.7	0.7	1.6	1.7	1.4	1.4	1.3	1.1	**-0.7**	**-0.3**	0.5	0.6
20%	0.7	0.8	1.6	1.4	1.3	2.0	1.3	0.4	**-0.6**	0.5	0.7	0.9
30%	0.7	0.9	1.7	1.4	1.4	1.4	1.1	0.8	0.0	0.7	0.8	0.9
40%	0.8	0.9	1.7	1.5	1.2	1.4	1.2	1.1	0.6	1.1	0.9	1.0
50%	0.8	0.9	1.7	1.5	1.4	1.4	1.3	1.2	0.9	1.1	1.0	1.0
60%	0.8	0.9	1.7	1.5	1.5	1.4	1.4	1.3	0.9	1.1	1.0	1.0
70%	0.8	0.9	1.7	1.5	1.5	1.5	1.4	1.3	1.0	1.2	1.0	1.0
80%	0.8	0.9	1.7	1.6	1.4	1.5	1.5	1.3	1.0	1.2	1.0	1.0
90%	0.8	0.9	1.7	1.5	1.4	1.5	1.4	1.3	1.1	1.2	1.0	1.0
Long Term												
Full Simulation Period[a]	0.8	0.9	1.7	1.5	1.4	1.5	1.3	1.1	0.5	0.8	0.8	0.9
Water Year Types[b]												
Wet (31%)	0.7	0.8	1.7	1.5	1.3	1.5	1.2	0.9	**-0.1**	0.2	0.4	0.6
Above Normal (25%)	0.8	0.9	1.8	1.7	1.7	1.6	1.2	1.2	**-0.6**	0.1	0.7	0.9
Below Normal (6%)	0.9	0.9	1.5	1.4	1.2	1.2	1.1	0.6	0.6	1.1	0.8	0.9
Dry (13%)	0.7	0.9	1.7	1.6	1.4	1.4	1.4	1.3	1.0	1.1	1.0	1.0
Critical (25%)	0.8	0.9	1.7	1.5	1.4	1.5	1.4	1.3	1.0	1.3	1.1	1.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-27-2-6. Old River at Tracy Blvd, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	2.6	1.2	1.7	2.7	3.1	2.3	1.8	3.2	2.8	2.0	2.3
20%	1.6	1.5	-0.4	0.3	1.6	1.6	1.0	1.0	3.0	2.0	1.8	1.7
30%	1.5	1.3	-0.5	0.0	0.6	0.6	0.2	0.5	2.3	1.6	1.6	1.6
40%	1.4	1.3	-0.6	-0.3	0.3	0.2	-0.1	0.1	1.7	1.1	1.5	1.4
50%	1.4	1.3	-0.7	-0.4	-0.3	-0.2	-0.3	-0.1	1.2	1.1	1.3	1.4
60%	1.4	1.2	-0.7	-0.5	-0.4	-0.3	-0.4	-0.2	1.1	1.1	1.2	1.4
70%	1.3	1.2	-0.7	-0.5	-0.5	-0.5	-0.5	-0.3	1.0	0.9	1.2	1.3
80%	1.2	1.2	-0.8	-0.6	-0.5	-0.6	-0.6	-0.4	0.9	0.8	1.1	1.3
90%	1.2	1.2	-0.9	-0.7	-0.6	-0.7	-0.7	-0.4	0.9	0.8	1.1	1.3
Long Term												
Full Simulation Period[a]	1.5	1.6	-0.2	0.1	0.6	0.8	0.3	0.4	1.8	1.5	1.5	1.6
Water Year Types[b]												
Wet (31%)	1.8	2.5	1.3	1.4	2.6	3.5	2.1	1.8	3.0	2.4	2.2	2.4
Above Normal (25%)	1.3	1.2	-0.7	0.9	1.9	1.3	0.8	0.8	3.1	2.4	1.8	1.6
Below Normal (6%)	1.2	1.3	-0.8	-0.1	0.3	0.5	0.1	0.6	1.7	1.1	1.5	1.4
Dry (13%)	1.4	1.3	-0.7	-0.6	-0.5	-0.4	-0.5	-0.2	1.1	1.0	1.2	1.3
Critical (25%)	1.3	1.3	-0.7	-0.6	-0.5	-0.6	-0.6	-0.4	1.0	0.8	1.2	1.3

Alternative 4 H2 (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.5	3.3	2.9	3.4	4.1	4.6	3.7	3.0	2.6	2.8	2.5	3.0
20%	2.3	2.3	1.3	1.7	3.0	3.6	2.4	1.5	2.5	2.5	2.4	2.6
30%	2.2	2.2	1.2	1.4	2.2	2.0	1.3	1.3	2.4	2.4	2.4	2.5
40%	2.2	2.2	1.1	1.2	1.4	1.5	1.1	1.2	2.2	2.2	2.4	2.4
50%	2.2	2.2	1.1	1.1	1.1	1.2	1.1	1.1	2.1	2.2	2.3	2.4
60%	2.2	2.2	1.0	1.1	1.1	1.1	1.0	1.1	2.0	2.2	2.3	2.3
70%	2.1	2.1	1.0	1.0	1.0	1.0	0.9	1.0	2.0	2.1	2.2	2.3
80%	2.1	2.1	0.9	1.0	0.9	0.8	0.9	0.9	2.0	2.1	2.2	2.3
90%	2.0	2.0	0.9	0.9	0.9	0.8	0.7	0.9	1.9	2.0	2.1	2.2
Long Term												
Full Simulation Period[a]	2.3	2.4	1.5	1.7	2.1	2.3	1.7	1.6	2.3	2.3	2.4	2.5
Water Year Types[b]												
Wet (31%)	2.7	3.3	3.0	2.9	3.9	5.1	3.3	2.8	2.9	2.6	2.6	3.0
Above Normal (25%)	2.1	2.1	1.1	2.6	3.6	3.0	2.1	2.0	2.5	2.6	2.5	2.5
Below Normal (6%)	2.2	2.2	0.9	1.3	1.4	1.5	1.2	1.3	2.2	2.2	2.3	2.3
Dry (13%)	2.2	2.2	1.0	1.0	0.9	1.0	0.9	1.0	2.1	2.1	2.2	2.3
Critical (25%)	2.1	2.1	1.0	1.0	1.0	0.9	0.8	0.9	2.0	2.1	2.2	2.3

Alternative 4 H2 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.7	0.7	1.7	1.7	1.4	1.6	1.3	1.2	**-0.7**	**-0.1**	0.5	0.6
20%	0.7	0.8	1.7	1.4	1.3	1.9	1.3	0.4	**-0.6**	0.5	0.7	0.9
30%	0.7	0.9	1.7	1.5	1.5	1.4	1.1	0.8	0.1	0.9	0.8	0.9
40%	0.8	0.9	1.7	1.5	1.2	1.4	1.2	1.1	0.5	1.1	0.9	1.0
50%	0.8	0.9	1.7	1.6	1.5	1.4	1.4	1.2	0.9	1.1	1.0	1.0
60%	0.8	0.9	1.7	1.6	1.5	1.4	1.5	1.3	0.9	1.1	1.1	0.9
70%	0.8	0.9	1.7	1.5	1.5	1.5	1.5	1.3	1.0	1.2	1.0	1.0
80%	0.8	0.9	1.7	1.6	1.5	1.5	1.5	1.3	1.0	1.3	1.0	1.0
90%	0.8	0.8	1.7	1.6	1.5	1.5	1.4	1.3	1.1	1.3	1.0	1.0
Long Term												
Full Simulation Period[a]	0.8	0.9	1.7	1.6	1.4	1.5	1.3	1.2	0.5	0.8	0.8	0.9
Water Year Types[b]												
Wet (31%)	0.8	0.8	1.7	1.5	1.3	1.5	1.2	1.0	**-0.1**	0.3	0.4	0.7
Above Normal (25%)	0.8	0.9	1.8	1.7	1.8	1.6	1.3	1.3	**-0.6**	0.3	0.7	0.9
Below Normal (6%)	0.9	0.9	1.6	1.4	1.2	1.0	1.1	0.6	0.5	1.1	0.8	0.9
Dry (13%)	0.7	0.9	1.7	1.6	1.4	1.4	1.4	1.3	1.0	1.1	1.0	1.0
Critical (25%)	0.8	0.9	1.7	1.6	1.5	1.5	1.5	1.3	1.0	1.3	1.1	1.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-27-2-7. Old River at Tracy Blvd, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	2.6	1.2	1.7	2.7	3.1	2.3	1.8	3.2	2.8	2.0	2.3
20%	1.6	1.5	-0.4	0.3	1.6	1.6	1.0	1.0	3.0	2.0	1.8	1.7
30%	1.5	1.3	-0.5	0.0	0.6	0.6	0.2	0.5	2.3	1.6	1.6	1.6
40%	1.4	1.3	-0.6	-0.3	0.3	0.2	-0.1	0.1	1.7	1.1	1.5	1.4
50%	1.4	1.3	-0.7	-0.4	-0.3	-0.2	-0.3	-0.1	1.2	1.1	1.3	1.4
60%	1.4	1.2	-0.7	-0.5	-0.4	-0.3	-0.4	-0.2	1.1	1.1	1.2	1.4
70%	1.3	1.2	-0.7	-0.5	-0.5	-0.5	-0.5	-0.3	1.0	0.9	1.2	1.3
80%	1.2	1.2	-0.8	-0.6	-0.5	-0.6	-0.6	-0.4	0.9	0.8	1.1	1.3
90%	1.2	1.2	-0.9	-0.7	-0.6	-0.7	-0.7	-0.4	0.9	0.8	1.1	1.3
Long Term												
Full Simulation Period[a]	1.5	1.6	-0.2	0.1	0.6	0.8	0.3	0.4	1.8	1.5	1.5	1.6
Water Year Types[b]												
Wet (31%)	1.8	2.5	1.3	1.4	2.6	3.5	2.1	1.8	3.0	2.4	2.2	2.4
Above Normal (25%)	1.3	1.2	-0.7	0.9	1.9	1.3	0.8	0.8	3.1	2.4	1.8	1.6
Below Normal (6%)	1.2	1.3	-0.8	-0.1	0.3	0.5	0.1	0.6	1.7	1.1	1.5	1.4
Dry (13%)	1.4	1.3	-0.7	-0.6	-0.5	-0.4	-0.5	-0.2	1.1	1.0	1.2	1.3
Critical (25%)	1.3	1.3	-0.7	-0.6	-0.5	-0.6	-0.6	-0.4	1.0	0.8	1.2	1.3

Alternative 4 H3 (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.5	3.3	2.9	3.4	4.1	4.6	3.7	2.9	2.6	2.6	2.6	3.1
20%	2.3	2.4	1.2	1.7	2.8	3.6	2.4	1.4	2.4	2.5	2.4	2.8
30%	2.2	2.4	1.2	1.4	2.1	1.9	1.3	1.3	2.4	2.3	2.4	2.7
40%	2.2	2.3	1.1	1.2	1.4	1.5	1.1	1.2	2.2	2.2	2.4	2.4
50%	2.2	2.2	1.0	1.1	1.1	1.2	1.0	1.1	2.1	2.2	2.3	2.4
60%	2.2	2.2	1.0	1.1	1.1	1.1	1.0	1.1	2.0	2.1	2.3	2.3
70%	2.1	2.2	1.0	1.0	1.0	1.0	0.9	1.0	2.0	2.1	2.2	2.3
80%	2.1	2.1	0.9	1.0	0.9	0.8	0.9	0.9	2.0	2.0	2.2	2.3
90%	2.0	2.0	0.9	0.9	0.9	0.8	0.7	0.9	1.9	2.0	2.1	2.2
Long Term												
Full Simulation Period[a]	2.3	2.5	1.5	1.7	2.0	2.3	1.6	1.6	2.3	2.3	2.4	2.6
Water Year Types[b]												
Wet (31%)	2.6	3.3	3.0	2.9	3.9	5.1	3.3	2.8	2.9	2.6	2.6	3.2
Above Normal (25%)	2.1	2.1	1.1	2.6	3.5	3.0	2.0	2.0	2.5	2.4	2.4	2.7
Below Normal (6%)	2.2	2.4	0.8	1.3	1.4	1.5	1.2	1.2	2.2	2.2	2.3	2.3
Dry (13%)	2.2	2.3	1.0	1.0	0.9	1.0	0.9	1.0	2.0	2.1	2.2	2.3
Critical (25%)	2.1	2.2	1.0	1.0	1.0	0.9	0.8	0.9	2.0	2.1	2.2	2.3

Alternative 4 H3 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.8	0.7	1.7	1.7	1.4	1.5	1.3	1.2	**-0.7**	**-0.3**	0.5	0.8
20%	0.8	0.9	1.6	1.4	1.2	1.9	1.3	0.4	**-0.6**	0.5	0.7	1.1
30%	0.7	1.0	1.7	1.4	1.4	1.4	1.1	0.8	0.0	0.8	0.8	1.1
40%	0.8	1.0	1.7	1.5	1.2	1.3	1.2	1.1	0.5	1.1	0.9	1.0
50%	0.8	1.0	1.7	1.6	1.4	1.4	1.3	1.2	0.9	1.1	1.0	1.0
60%	0.8	1.0	1.7	1.6	1.5	1.4	1.4	1.3	0.9	1.1	1.0	1.0
70%	0.9	0.9	1.7	1.5	1.5	1.5	1.4	1.3	1.0	1.2	1.0	1.0
80%	0.9	0.9	1.7	1.6	1.4	1.5	1.5	1.3	1.0	1.2	1.1	1.0
90%	0.8	0.8	1.7	1.6	1.4	1.5	1.4	1.3	1.1	1.2	1.0	1.0
Long Term												
Full Simulation Period[a]	0.8	0.9	1.7	1.6	1.4	1.5	1.3	1.1	0.5	0.8	0.8	0.9
Water Year Types[b]												
Wet (31%)	0.7	0.8	1.7	1.5	1.3	1.5	1.2	0.9	**-0.1**	0.2	0.4	0.8
Above Normal (25%)	0.8	0.9	1.8	1.7	1.6	1.6	1.2	1.2	**-0.6**	0.1	0.7	1.1
Below Normal (6%)	0.9	1.0	1.6	1.4	1.2	1.0	1.1	0.6	0.5	1.1	0.8	0.9
Dry (13%)	0.8	0.9	1.7	1.6	1.4	1.4	1.4	1.3	1.0	1.1	1.0	1.0
Critical (25%)	0.8	0.9	1.7	1.6	1.4	1.5	1.5	1.3	1.0	1.3	1.1	1.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-27-2-8. Old River at Tracy Blvd, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	2.6	1.2	1.7	2.7	3.1	2.3	1.8	3.2	2.8	2.0	2.3
20%	1.6	1.5	-0.4	0.3	1.6	1.6	1.0	1.0	3.0	2.0	1.8	1.7
30%	1.5	1.3	-0.5	0.0	0.6	0.6	0.2	0.5	2.3	1.6	1.6	1.6
40%	1.4	1.3	-0.6	-0.3	0.3	0.2	-0.1	0.1	1.7	1.1	1.5	1.4
50%	1.4	1.3	-0.7	-0.4	-0.3	-0.2	-0.3	-0.1	1.2	1.1	1.3	1.4
60%	1.4	1.2	-0.7	-0.5	-0.4	-0.3	-0.4	-0.2	1.1	1.1	1.2	1.4
70%	1.3	1.2	-0.7	-0.5	-0.5	-0.5	-0.5	-0.3	1.0	0.9	1.2	1.3
80%	1.2	1.2	-0.8	-0.6	-0.5	-0.6	-0.6	-0.4	0.9	0.8	1.1	1.3
90%	1.2	1.2	-0.9	-0.7	-0.6	-0.7	-0.7	-0.4	0.9	0.8	1.1	1.3
Long Term												
Full Simulation Period[a]	1.5	1.6	-0.2	0.1	0.6	0.8	0.3	0.4	1.8	1.5	1.5	1.6
Water Year Types[b]												
Wet (31%)	1.8	2.5	1.3	1.4	2.6	3.5	2.1	1.8	3.0	2.4	2.2	2.4
Above Normal (25%)	1.3	1.2	-0.7	0.9	1.9	1.3	0.8	0.8	3.1	2.4	1.8	1.6
Below Normal (6%)	1.2	1.3	-0.8	-0.1	0.3	0.5	0.1	0.6	1.7	1.1	1.5	1.4
Dry (13%)	1.4	1.3	-0.7	-0.6	-0.5	-0.4	-0.5	-0.2	1.1	1.0	1.2	1.3
Critical (25%)	1.3	1.3	-0.7	-0.6	-0.5	-0.6	-0.6	-0.4	1.0	0.8	1.2	1.3

Alternative 4 H4 (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.5	3.3	2.9	3.5	4.1	4.6	3.7	3.0	2.6	2.8	2.5	3.1
20%	2.3	2.4	1.2	1.7	2.9	3.6	2.4	1.5	2.5	2.5	2.4	2.8
30%	2.2	2.4	1.1	1.5	2.1	2.0	1.3	1.3	2.4	2.4	2.4	2.7
40%	2.2	2.3	1.1	1.2	1.4	1.5	1.1	1.2	2.2	2.3	2.4	2.4
50%	2.2	2.2	1.1	1.1	1.1	1.2	1.1	1.1	2.1	2.2	2.3	2.4
60%	2.2	2.2	1.0	1.1	1.1	1.1	1.0	1.1	2.0	2.1	2.3	2.3
70%	2.1	2.2	0.9	1.0	1.0	1.0	0.9	1.0	2.0	2.1	2.2	2.3
80%	2.1	2.1	0.9	1.0	0.9	0.9	0.9	0.9	2.0	2.1	2.2	2.3
90%	2.0	2.1	0.8	0.9	0.9	0.8	0.7	0.9	1.9	2.0	2.1	2.3
Long Term												
Full Simulation Period[a]	2.3	2.5	1.5	1.7	2.1	2.3	1.7	1.6	2.3	2.3	2.4	2.6
Water Year Types[b]												
Wet (31%)	2.6	3.2	3.0	3.0	3.9	5.1	3.3	2.8	2.9	2.6	2.6	3.2
Above Normal (25%)	2.1	2.1	1.1	2.7	3.5	3.0	2.1	2.0	2.5	2.6	2.5	2.7
Below Normal (6%)	2.2	2.4	0.8	1.3	1.4	1.5	1.2	1.3	2.2	2.2	2.3	2.3
Dry (13%)	2.2	2.3	1.0	1.0	0.9	1.0	0.9	1.0	2.1	2.1	2.2	2.3
Critical (25%)	2.1	2.2	1.0	1.0	1.0	0.9	0.8	0.9	2.0	2.1	2.2	2.3

Alternative 4 H4 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.8	0.7	1.6	1.8	1.4	1.6	1.3	1.2	**-0.7**	**-0.1**	0.5	0.8
20%	0.8	0.9	1.6	1.5	1.3	1.9	1.3	0.4	**-0.6**	0.5	0.7	1.1
30%	0.7	1.0	1.7	1.6	1.4	1.4	1.1	0.8	0.1	0.9	0.8	1.1
40%	0.8	1.0	1.7	1.5	1.2	1.3	1.2	1.1	0.6	1.1	0.9	1.0
50%	0.8	0.9	1.7	1.6	1.5	1.4	1.4	1.2	0.9	1.1	1.0	1.0
60%	0.8	1.0	1.7	1.6	1.5	1.4	1.5	1.3	0.9	1.1	1.0	0.9
70%	0.9	0.9	1.7	1.5	1.5	1.5	1.5	1.3	1.0	1.2	1.0	1.0
80%	0.8	0.9	1.7	1.6	1.5	1.5	1.5	1.3	1.1	1.3	1.0	1.0
90%	0.8	0.9	1.7	1.6	1.5	1.5	1.4	1.3	1.1	1.3	1.0	1.0
Long Term												
Full Simulation Period[a]	0.8	0.9	1.7	1.6	1.4	1.5	1.3	1.2	0.5	0.8	0.8	0.9
Water Year Types[b]												
Wet (31%)	0.7	0.7	1.6	1.6	1.3	1.5	1.2	1.0	**-0.1**	0.3	0.4	0.8
Above Normal (25%)	0.8	0.9	1.8	1.8	1.6	1.6	1.3	1.3	**-0.6**	0.3	0.7	1.1
Below Normal (6%)	0.9	1.1	1.5	1.4	1.2	1.0	1.1	0.6	0.6	1.1	0.8	0.9
Dry (13%)	0.8	0.9	1.7	1.6	1.4	1.4	1.4	1.3	1.0	1.1	1.0	1.0
Critical (25%)	0.8	0.9	1.6	1.6	1.5	1.5	1.5	1.3	1.0	1.3	1.0	1.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-27-2-9. Old River at Tracy Blvd, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	2.6	1.2	1.7	2.7	3.1	2.3	1.8	3.2	2.8	2.0	2.3
20%	1.6	1.5	-0.4	0.3	1.6	1.6	1.0	1.0	3.0	2.0	1.8	1.7
30%	1.5	1.3	-0.5	0.0	0.6	0.6	0.2	0.5	2.3	1.6	1.6	1.6
40%	1.4	1.3	-0.6	-0.3	0.3	0.2	-0.1	0.1	1.7	1.1	1.5	1.4
50%	1.4	1.3	-0.7	-0.4	-0.3	-0.2	-0.3	-0.1	1.2	1.1	1.3	1.4
60%	1.4	1.2	-0.7	-0.5	-0.4	-0.3	-0.4	-0.2	1.1	1.1	1.2	1.4
70%	1.3	1.2	-0.7	-0.5	-0.5	-0.5	-0.5	-0.3	1.0	0.9	1.2	1.3
80%	1.2	1.2	-0.8	-0.6	-0.5	-0.6	-0.6	-0.4	0.9	0.8	1.1	1.3
90%	1.2	1.2	-0.9	-0.7	-0.6	-0.7	-0.7	-0.4	0.9	0.8	1.1	1.3
Long Term												
Full Simulation Period[a]	1.5	1.6	-0.2	0.1	0.6	0.8	0.3	0.4	1.8	1.5	1.5	1.6
Water Year Types[b]												
Wet (31%)	1.8	2.5	1.3	1.4	2.6	3.5	2.1	1.8	3.0	2.4	2.2	2.4
Above Normal (25%)	1.3	1.2	-0.7	0.9	1.9	1.3	0.8	0.8	3.1	2.4	1.8	1.6
Below Normal (6%)	1.2	1.3	-0.8	-0.1	0.3	0.5	0.1	0.6	1.7	1.1	1.5	1.4
Dry (13%)	1.4	1.3	-0.7	-0.6	-0.5	-0.4	-0.5	-0.2	1.1	1.0	1.2	1.3
Critical (25%)	1.3	1.3	-0.7	-0.6	-0.5	-0.6	-0.6	-0.4	1.0	0.8	1.2	1.3

Alternative 5 (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.6	3.3	2.8	3.3	4.0	4.4	3.5	2.9	2.7	2.6	2.5	3.1
20%	2.5	2.4	1.2	1.8	2.8	3.3	2.4	1.9	2.6	2.4	2.4	2.6
30%	2.3	2.3	1.1	1.5	2.1	1.9	1.6	1.7	2.5	2.3	2.4	2.5
40%	2.3	2.2	1.0	1.2	1.5	1.7	1.3	1.4	2.3	2.2	2.3	2.4
50%	2.3	2.1	1.0	1.2	1.2	1.3	1.2	1.3	2.1	2.1	2.3	2.3
60%	2.2	2.1	1.0	1.2	1.2	1.2	1.1	1.2	2.1	2.1	2.3	2.3
70%	2.1	2.1	0.9	1.1	1.0	1.1	1.0	1.1	2.0	2.0	2.2	2.3
80%	2.1	2.0	0.7	1.0	1.0	0.9	1.0	1.1	2.0	2.0	2.2	2.3
90%	2.1	2.0	0.6	0.9	0.9	0.8	0.8	1.0	2.0	2.0	2.1	2.2
Long Term												
Full Simulation Period[a]	2.4	2.4	1.4	1.7	2.1	2.3	1.7	1.7	2.3	2.2	2.3	2.5
Water Year Types[b]												
Wet (31%)	2.7	3.2	2.9	2.9	3.8	4.9	3.3	2.8	2.9	2.6	2.6	3.1
Above Normal (25%)	2.1	2.0	1.1	2.6	3.5	2.9	2.1	2.2	2.6	2.5	2.4	2.5
Below Normal (6%)	2.2	2.4	0.7	1.4	1.5	1.7	1.5	1.6	2.3	2.0	2.3	2.3
Dry (13%)	2.3	2.2	0.8	1.0	1.0	1.1	1.0	1.2	2.1	2.1	2.2	2.3
Critical (25%)	2.2	2.1	1.0	1.1	1.1	1.0	0.9	1.0	2.0	2.1	2.2	2.3

Alternative 5 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.9	0.7	1.6	1.7	1.3	1.4	1.2	1.1	**-0.5**	**-0.2**	0.5	0.8
20%	0.9	0.9	1.6	1.6	1.1	1.7	1.4	0.9	**-0.5**	0.4	0.7	0.9
30%	0.8	1.0	1.6	1.6	1.5	1.4	1.4	1.2	0.2	0.7	0.8	1.0
40%	0.9	1.0	1.6	1.5	1.3	1.5	1.3	1.3	0.7	1.1	0.8	1.0
50%	0.9	0.9	1.7	1.6	1.6	1.5	1.5	1.4	1.0	1.0	0.9	0.9
60%	0.9	0.9	1.6	1.7	1.6	1.6	1.5	1.4	1.0	1.0	1.0	0.9
70%	0.9	0.8	1.6	1.6	1.5	1.6	1.5	1.4	1.0	1.1	1.0	0.9
80%	0.9	0.8	1.5	1.7	1.5	1.6	1.6	1.4	1.1	1.2	1.1	1.0
90%	0.9	0.8	1.5	1.5	1.5	1.5	1.5	1.4	1.1	1.2	1.0	1.0
Long Term												
Full Simulation Period[a]	0.9	0.8	1.6	1.6	1.4	1.5	1.4	1.3	0.5	0.8	0.8	0.9
Water Year Types[b]												
Wet (31%)	0.9	0.7	1.5	1.5	1.2	1.4	1.2	1.0	**-0.1**	0.2	0.4	0.7
Above Normal (25%)	0.8	0.8	1.8	1.7	1.6	1.5	1.4	1.5	**-0.5**	0.1	0.7	1.0
Below Normal (6%)	1.0	1.0	1.5	1.5	1.3	1.2	1.3	1.0	0.7	0.9	0.8	0.9
Dry (13%)	0.9	0.9	1.6	1.6	1.5	1.5	1.5	1.4	1.0	1.1	1.0	1.0
Critical (25%)	0.9	0.9	1.6	1.7	1.5	1.6	1.5	1.4	1.0	1.2	1.1	1.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-27-2-10. Old River at Tracy Blvd, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	2.6	1.2	1.7	2.7	3.1	2.3	1.8	3.2	2.8	2.0	2.3
20%	1.6	1.5	-0.4	0.3	1.6	1.6	1.0	1.0	3.0	2.0	1.8	1.7
30%	1.5	1.3	-0.5	0.0	0.6	0.6	0.2	0.5	2.3	1.6	1.6	1.6
40%	1.4	1.3	-0.6	-0.3	0.3	0.2	-0.1	0.1	1.7	1.1	1.5	1.4
50%	1.4	1.3	-0.7	-0.4	-0.3	-0.2	-0.3	-0.1	1.2	1.1	1.3	1.4
60%	1.4	1.2	-0.7	-0.5	-0.4	-0.3	-0.4	-0.2	1.1	1.1	1.2	1.4
70%	1.3	1.2	-0.7	-0.5	-0.5	-0.5	-0.5	-0.3	1.0	0.9	1.2	1.3
80%	1.2	1.2	-0.8	-0.6	-0.5	-0.6	-0.6	-0.4	0.9	0.8	1.1	1.3
90%	1.2	1.2	-0.9	-0.7	-0.6	-0.7	-0.7	-0.4	0.9	0.8	1.1	1.3
Long Term												
Full Simulation Period[a]	1.5	1.6	-0.2	0.1	0.6	0.8	0.3	0.4	1.8	1.5	1.5	1.6
Water Year Types[b]												
Wet (31%)	1.8	2.5	1.3	1.4	2.6	3.5	2.1	1.8	3.0	2.4	2.2	2.4
Above Normal (25%)	1.3	1.2	-0.7	0.9	1.9	1.3	0.8	0.8	3.1	2.4	1.8	1.6
Below Normal (6%)	1.2	1.3	-0.8	-0.1	0.3	0.5	0.1	0.6	1.7	1.1	1.5	1.4
Dry (13%)	1.4	1.3	-0.7	-0.6	-0.5	-0.4	-0.5	-0.2	1.1	1.0	1.2	1.3
Critical (25%)	1.3	1.3	-0.7	-0.6	-0.5	-0.6	-0.6	-0.4	1.0	0.8	1.2	1.3

Alternative 6A,6B,6C (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.8	2.2	3.1	3.6	4.3	4.6	3.7	2.9	1.5	1.6	1.6	2.0
20%	1.5	1.5	1.4	2.1	3.2	3.6	2.5	1.8	1.3	1.5	1.6	1.6
30%	1.5	1.4	1.4	1.8	2.4	2.3	1.6	1.6	1.3	1.4	1.5	1.6
40%	1.4	1.3	1.4	1.5	1.9	2.0	1.4	1.3	1.2	1.4	1.4	1.5
50%	1.4	1.3	1.3	1.4	1.4	1.4	1.3	1.3	1.1	1.3	1.4	1.5
60%	1.4	1.3	1.3	1.3	1.4	1.3	1.1	1.2	1.1	1.3	1.4	1.5
70%	1.3	1.2	1.3	1.3	1.3	1.2	1.1	1.1	1.1	1.2	1.3	1.4
80%	1.3	1.2	1.2	1.2	1.2	1.1	1.1	1.0	1.0	1.2	1.3	1.4
90%	1.2	1.1	1.1	1.1	1.1	1.0	0.9	1.0	1.0	1.1	1.3	1.4
Long Term												
Full Simulation Period[a]	1.5	1.5	1.7	2.0	2.3	2.5	1.8	1.7	1.3	1.4	1.5	1.6
Water Year Types[b]												
Wet (31%)	1.8	2.2	3.2	3.1	4.2	5.2	3.5	2.9	2.1	1.8	1.7	2.0
Above Normal (25%)	1.3	1.2	1.4	3.0	3.7	3.1	2.2	2.1	1.3	1.4	1.5	1.5
Below Normal (6%)	1.4	1.4	1.2	1.8	1.9	2.1	1.5	1.5	1.1	1.2	1.3	1.4
Dry (13%)	1.4	1.3	1.3	1.3	1.3	1.3	1.1	1.1	1.1	1.2	1.4	1.5
Critical (25%)	1.4	1.3	1.2	1.2	1.2	1.1	1.0	1.0	1.0	1.2	1.4	1.4

Alternative 6A,6B,6C (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.0	**-0.4**	1.9	2.0	1.6	1.6	1.4	1.1	**-1.7**	**-1.3**	**-0.4**	**-0.3**
20%	**-0.1**	0.0	1.8	1.8	1.6	2.0	1.5	0.8	**-1.7**	**-0.5**	**-0.2**	**-0.1**
30%	**0.0**	0.1	1.9	1.9	1.8	1.7	1.5	1.1	**-1.1**	**-0.1**	**-0.1**	**0.0**
40%	0.0	0.1	2.0	1.9	1.7	1.8	1.4	1.2	**-0.5**	0.2	**-0.1**	0.1
50%	0.0	0.1	2.0	1.8	1.7	1.7	1.6	1.4	**0.0**	0.2	0.1	0.1
60%	0.0	0.0	2.0	1.8	1.8	1.7	1.6	1.4	**0.0**	0.2	0.2	0.1
70%	0.1	**0.0**	2.0	1.8	1.8	1.7	1.6	1.4	0.0	0.3	0.2	0.1
80%	0.1	**-0.1**	1.9	1.8	1.8	1.7	1.6	1.4	0.1	0.4	0.2	0.1
90%	0.0	**-0.1**	1.9	1.8	1.7	1.7	1.6	1.3	0.1	0.3	0.2	0.1
Long Term												
Full Simulation Period[a]	**0.0**	**-0.1**	1.9	1.8	1.7	1.7	1.5	1.3	**-0.5**	**-0.1**	**-0.1**	**0.0**
Water Year Types[b]												
Wet (31%)	**-0.1**	**-0.3**	1.9	1.7	1.6	1.7	1.4	1.1	**-0.9**	**-0.6**	**-0.5**	**-0.4**
Above Normal (25%)	**0.0**	0.0	2.0	2.1	1.9	1.7	1.5	1.3	**-1.8**	**-0.9**	**-0.2**	**0.0**
Below Normal (6%)	0.2	0.0	1.9	1.9	1.7	1.6	1.4	0.9	**-0.5**	0.1	**-0.1**	0.0
Dry (13%)	**0.0**	**-0.1**	2.0	1.9	1.8	1.7	1.6	1.4	0.0	0.2	0.2	0.1
Critical (25%)	0.0	**0.0**	1.9	1.8	1.7	1.7	1.6	1.4	0.0	0.4	0.2	0.1

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-27-2-11. Old River at Tracy Blvd, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	2.6	1.2	1.7	2.7	3.1	2.3	1.8	3.2	2.8	2.0	2.3
20%	1.6	1.5	-0.4	0.3	1.6	1.6	1.0	1.0	3.0	2.0	1.8	1.7
30%	1.5	1.3	-0.5	0.0	0.6	0.6	0.2	0.5	2.3	1.6	1.6	1.6
40%	1.4	1.3	-0.6	-0.3	0.3	0.2	-0.1	0.1	1.7	1.1	1.5	1.4
50%	1.4	1.3	-0.7	-0.4	-0.3	-0.2	-0.3	-0.1	1.2	1.1	1.3	1.4
60%	1.4	1.2	-0.7	-0.5	-0.4	-0.3	-0.4	-0.2	1.1	1.1	1.2	1.4
70%	1.3	1.2	-0.7	-0.5	-0.5	-0.5	-0.5	-0.3	1.0	0.9	1.2	1.3
80%	1.2	1.2	-0.8	-0.6	-0.5	-0.6	-0.6	-0.4	0.9	0.8	1.1	1.3
90%	1.2	1.2	-0.9	-0.7	-0.6	-0.7	-0.7	-0.4	0.9	0.8	1.1	1.3
Long Term												
Full Simulation Period[a]	1.5	1.6	-0.2	0.1	0.6	0.8	0.3	0.4	1.8	1.5	1.5	1.6
Water Year Types[b]												
Wet (31%)	1.8	2.5	1.3	1.4	2.6	3.5	2.1	1.8	3.0	2.4	2.2	2.4
Above Normal (25%)	1.3	1.2	-0.7	0.9	1.9	1.3	0.8	0.8	3.1	2.4	1.8	1.6
Below Normal (6%)	1.2	1.3	-0.8	-0.1	0.3	0.5	0.1	0.6	1.7	1.1	1.5	1.4
Dry (13%)	1.4	1.3	-0.7	-0.6	-0.5	-0.4	-0.5	-0.2	1.1	1.0	1.2	1.3
Critical (25%)	1.3	1.3	-0.7	-0.6	-0.5	-0.6	-0.6	-0.4	1.0	0.8	1.2	1.3

Alternative 7 (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.8	2.2	2.9	3.5	4.0	4.6	3.7	2.9	1.5	1.2	1.3	2.0
20%	1.5	1.5	1.4	2.1	3.0	3.4	2.5	1.8	1.4	1.1	1.3	1.7
30%	1.5	1.4	1.4	1.8	2.3	2.2	1.7	1.6	1.3	1.1	1.2	1.5
40%	1.4	1.3	1.4	1.5	1.8	2.0	1.4	1.3	1.2	1.0	1.2	1.4
50%	1.4	1.3	1.3	1.4	1.4	1.4	1.3	1.3	1.1	1.0	1.2	1.3
60%	1.4	1.3	1.3	1.3	1.4	1.3	1.1	1.2	1.1	0.9	1.1	1.3
70%	1.3	1.2	1.3	1.3	1.3	1.2	1.1	1.1	1.1	0.9	1.1	1.3
80%	1.3	1.2	1.2	1.2	1.2	1.1	1.1	1.0	1.1	0.9	1.1	1.2
90%	1.2	1.1	1.1	1.1	1.1	1.0	0.9	1.0	1.0	0.8	1.0	1.1
Long Term												
Full Simulation Period[a]	1.5	1.5	1.7	1.9	2.3	2.4	1.8	1.7	1.4	1.1	1.2	1.5
Water Year Types[b]												
Wet (31%)	1.8	2.2	3.0	3.0	4.1	5.1	3.5	2.9	2.1	1.4	1.3	2.0
Above Normal (25%)	1.3	1.2	1.4	2.9	3.5	3.0	2.3	2.1	1.3	1.1	1.1	1.5
Below Normal (6%)	1.4	1.4	1.2	1.7	1.8	2.0	1.6	1.5	1.2	0.8	1.1	1.1
Dry (13%)	1.4	1.3	1.3	1.2	1.3	1.3	1.1	1.1	1.1	0.8	1.1	1.2
Critical (25%)	1.3	1.3	1.2	1.2	1.2	1.1	1.0	1.0	1.0	1.0	1.2	1.3

Alternative 7 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.0	-0.4	1.7	1.9	1.3	1.5	1.4	1.1	-1.7	-1.6	-0.7	-0.3
20%	-0.1	0.0	1.8	1.8	1.4	1.8	1.5	0.8	-1.7	-0.9	-0.5	-0.1
30%	0.0	0.1	1.9	1.8	1.7	1.6	1.5	1.1	-1.0	-0.4	-0.4	0.0
40%	0.0	0.1	2.0	1.8	1.6	1.8	1.4	1.2	-0.5	-0.1	-0.3	-0.1
50%	0.0	0.1	2.0	1.8	1.7	1.7	1.6	1.4	0.0	-0.1	-0.2	-0.1
60%	0.0	0.0	2.0	1.8	1.8	1.7	1.6	1.4	0.0	-0.1	-0.1	-0.1
70%	0.1	0.0	2.0	1.8	1.8	1.7	1.6	1.4	0.1	0.0	-0.1	-0.1
80%	0.0	-0.1	1.9	1.8	1.8	1.7	1.6	1.4	0.1	0.1	-0.1	-0.1
90%	0.0	-0.1	1.9	1.8	1.7	1.7	1.6	1.4	0.1	0.0	-0.1	-0.2
Long Term												
Full Simulation Period[a]	0.0	-0.1	1.9	1.8	1.6	1.6	1.5	1.3	-0.5	-0.4	-0.3	-0.2
Water Year Types[b]												
Wet (31%)	-0.1	-0.3	1.7	1.6	1.5	1.6	1.4	1.1	-0.9	-0.9	-0.9	-0.4
Above Normal (25%)	0.0	0.0	2.0	2.0	1.6	1.7	1.5	1.4	-1.8	-1.3	-0.6	0.0
Below Normal (6%)	0.2	0.0	1.9	1.8	1.6	1.4	1.4	0.9	-0.5	-0.3	-0.4	-0.3
Dry (13%)	0.0	-0.1	2.0	1.9	1.8	1.7	1.6	1.4	0.0	-0.2	-0.1	-0.1
Critical (25%)	0.0	0.0	1.9	1.8	1.7	1.7	1.6	1.4	0.1	0.2	0.0	0.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-27-2-12. Old River at Tracy Blvd, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	2.6	1.2	1.7	2.7	3.1	2.3	1.8	3.2	2.8	2.0	2.3
20%	1.6	1.5	-0.4	0.3	1.6	1.6	1.0	1.0	3.0	2.0	1.8	1.7
30%	1.5	1.3	-0.5	0.0	0.6	0.6	0.2	0.5	2.3	1.6	1.6	1.6
40%	1.4	1.3	-0.6	-0.3	0.3	0.2	-0.1	0.1	1.7	1.1	1.5	1.4
50%	1.4	1.3	-0.7	-0.4	-0.3	-0.2	-0.3	-0.1	1.2	1.1	1.3	1.4
60%	1.4	1.2	-0.7	-0.5	-0.4	-0.3	-0.4	-0.2	1.1	1.1	1.2	1.4
70%	1.3	1.2	-0.7	-0.5	-0.5	-0.5	-0.5	-0.3	1.0	0.9	1.2	1.3
80%	1.2	1.2	-0.8	-0.6	-0.5	-0.6	-0.6	-0.4	0.9	0.8	1.1	1.3
90%	1.2	1.2	-0.9	-0.7	-0.6	-0.7	-0.7	-0.4	0.9	0.8	1.1	1.3
Long Term												
Full Simulation Period[a]	1.5	1.6	-0.2	0.1	0.6	0.8	0.3	0.4	1.8	1.5	1.5	1.6
Water Year Types[b]												
Wet (31%)	1.8	2.5	1.3	1.4	2.6	3.5	2.1	1.8	3.0	2.4	2.2	2.4
Above Normal (25%)	1.3	1.2	-0.7	0.9	1.9	1.3	0.8	0.8	3.1	2.4	1.8	1.6
Below Normal (6%)	1.2	1.3	-0.8	-0.1	0.3	0.5	0.1	0.6	1.7	1.1	1.5	1.4
Dry (13%)	1.4	1.3	-0.7	-0.6	-0.5	-0.4	-0.5	-0.2	1.1	1.0	1.2	1.3
Critical (25%)	1.3	1.3	-0.7	-0.6	-0.5	-0.6	-0.6	-0.4	1.0	0.8	1.2	1.3

Alternative 8 (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.8	2.2	3.0	3.4	4.1	4.6	3.7	3.0	1.5	1.5	1.3	2.0
20%	1.5	1.5	1.4	2.0	3.0	3.4	2.6	1.8	1.4	1.3	1.3	1.7
30%	1.4	1.4	1.4	1.8	2.3	2.2	1.7	1.6	1.3	1.3	1.2	1.6
40%	1.4	1.4	1.4	1.5	1.8	2.0	1.4	1.3	1.2	1.2	1.2	1.4
50%	1.4	1.3	1.3	1.4	1.4	1.5	1.3	1.3	1.1	1.1	1.2	1.3
60%	1.4	1.3	1.3	1.3	1.4	1.4	1.2	1.2	1.1	1.0	1.1	1.3
70%	1.3	1.2	1.3	1.3	1.3	1.2	1.1	1.1	1.1	1.0	1.1	1.3
80%	1.3	1.2	1.2	1.2	1.2	1.1	1.1	1.0	1.1	1.0	1.0	1.2
90%	1.2	1.1	1.1	1.1	1.1	1.0	0.9	1.0	1.0	0.9	1.0	1.2
Long Term												
Full Simulation Period[a]	1.5	1.5	1.7	1.9	2.3	2.4	1.9	1.7	1.4	1.2	1.2	1.5
Water Year Types[b]												
Wet (31%)	1.8	2.1	3.0	3.0	4.0	5.1	3.5	2.9	2.1	1.6	1.3	2.0
Above Normal (25%)	1.3	1.2	1.4	2.8	3.6	3.0	2.3	2.2	1.3	1.3	1.2	1.6
Below Normal (6%)	1.4	1.4	1.2	1.7	1.8	2.0	1.6	1.5	1.2	0.9	1.0	1.2
Dry (13%)	1.4	1.3	1.3	1.3	1.3	1.3	1.1	1.1	1.1	1.1	1.1	1.2
Critical (25%)	1.3	1.3	1.2	1.2	1.2	1.1	1.0	1.0	1.0	1.0	1.2	1.3

Alternative 8 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.0	-0.4	1.7	1.7	1.4	1.5	1.4	1.2	-1.7	-1.4	-0.7	-0.3
20%	-0.1	0.0	1.8	1.8	1.3	1.8	1.5	0.8	-1.7	-0.7	-0.5	0.0
30%	0.0	0.1	1.9	1.9	1.7	1.6	1.5	1.1	-1.0	-0.3	-0.4	0.0
40%	0.0	0.1	2.0	1.9	1.6	1.8	1.4	1.2	-0.5	0.1	-0.3	-0.1
50%	0.0	0.1	2.0	1.8	1.8	1.7	1.6	1.4	0.0	0.0	-0.2	-0.1
60%	0.0	0.0	2.0	1.8	1.8	1.7	1.6	1.4	0.0	0.0	-0.1	-0.1
70%	0.1	0.0	2.0	1.8	1.8	1.7	1.6	1.4	0.1	0.1	-0.1	-0.1
80%	0.0	-0.1	1.9	1.8	1.8	1.7	1.7	1.4	0.1	0.2	-0.1	-0.1
90%	0.0	-0.1	1.9	1.8	1.7	1.8	1.6	1.4	0.1	0.1	-0.1	-0.1
Long Term												
Full Simulation Period[a]	0.0	-0.1	1.9	1.8	1.6	1.6	1.5	1.3	-0.5	-0.3	-0.4	-0.1
Water Year Types[b]												
Wet (31%)	-0.1	-0.3	1.7	1.6	1.4	1.6	1.4	1.1	-0.9	-0.8	-0.9	-0.4
Above Normal (25%)	0.0	0.0	2.0	1.9	1.7	1.7	1.5	1.4	-1.8	-1.1	-0.6	0.0
Below Normal (6%)	0.2	0.0	1.9	1.8	1.6	1.5	1.4	0.9	-0.5	-0.2	-0.5	-0.2
Dry (13%)	0.0	0.0	2.0	1.9	1.8	1.7	1.6	1.4	0.0	0.1	-0.1	-0.1
Critical (25%)	0.0	0.0	1.9	1.8	1.7	1.7	1.6	1.4	0.1	0.2	0.0	0.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-27-2-13. Old River at Tracy Blvd, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	2.6	1.2	1.7	2.7	3.1	2.3	1.8	3.2	2.8	2.0	2.3
20%	1.6	1.5	-0.4	0.3	1.6	1.6	1.0	1.0	3.0	2.0	1.8	1.7
30%	1.5	1.3	-0.5	0.0	0.6	0.6	0.2	0.5	2.3	1.6	1.6	1.6
40%	1.4	1.3	-0.6	-0.3	0.3	0.2	-0.1	0.1	1.7	1.1	1.5	1.4
50%	1.4	1.3	-0.7	-0.4	-0.3	-0.2	-0.3	-0.1	1.2	1.1	1.3	1.4
60%	1.4	1.2	-0.7	-0.5	-0.4	-0.3	-0.4	-0.2	1.1	1.1	1.2	1.4
70%	1.3	1.2	-0.7	-0.5	-0.5	-0.5	-0.5	-0.3	1.0	0.9	1.2	1.3
80%	1.2	1.2	-0.8	-0.6	-0.5	-0.6	-0.6	-0.4	0.9	0.8	1.1	1.3
90%	1.2	1.2	-0.9	-0.7	-0.6	-0.7	-0.7	-0.4	0.9	0.8	1.1	1.3
Long Term												
Full Simulation Period[a]	1.5	1.6	-0.2	0.1	0.6	0.8	0.3	0.4	1.8	1.5	1.5	1.6
Water Year Types[b]												
Wet (31%)	1.8	2.5	1.3	1.4	2.6	3.5	2.1	1.8	3.0	2.4	2.2	2.4
Above Normal (25%)	1.3	1.2	-0.7	0.9	1.9	1.3	0.8	0.8	3.1	2.4	1.8	1.6
Below Normal (6%)	1.2	1.3	-0.8	-0.1	0.3	0.5	0.1	0.6	1.7	1.1	1.5	1.4
Dry (13%)	1.4	1.3	-0.7	-0.6	-0.5	-0.4	-0.5	-0.2	1.1	1.0	1.2	1.3
Critical (25%)	1.3	1.3	-0.7	-0.6	-0.5	-0.6	-0.6	-0.4	1.0	0.8	1.2	1.3

Alternative 9 (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.5	2.5	3.1	3.7	4.4	4.6	3.8	3.3	2.3	2.2	2.1	2.7
20%	2.2	2.1	1.9	2.7	3.3	3.2	2.9	3.1	2.1	2.0	2.0	2.3
30%	2.0	1.9	1.8	2.6	3.2	3.1	2.8	2.7	2.0	1.9	1.9	2.1
40%	2.0	1.9	1.8	2.1	2.7	3.0	2.5	2.3	1.7	1.8	1.8	2.0
50%	1.9	1.8	1.8	1.9	1.9	2.0	2.0	1.9	1.5	1.6	1.8	1.9
60%	1.9	1.8	1.7	1.8	1.9	1.9	1.7	1.7	1.4	1.6	1.7	1.8
70%	1.9	1.7	1.7	1.7	1.8	1.7	1.6	1.6	1.4	1.6	1.7	1.8
80%	1.7	1.6	1.7	1.7	1.7	1.5	1.5	1.5	1.4	1.5	1.6	1.8
90%	1.6	1.5	1.5	1.6	1.6	1.4	1.4	1.4	1.3	1.4	1.6	1.7
Long Term												
Full Simulation Period[a]	2.0	1.9	2.1	2.4	2.8	2.9	2.4	2.3	1.8	1.8	1.9	2.1
Water Year Types[b]												
Wet (31%)	2.3	2.4	3.3	3.4	4.5	5.4	3.8	3.5	2.5	2.2	2.2	2.8
Above Normal (25%)	1.8	1.7	1.8	3.5	4.0	3.4	2.9	2.9	2.2	2.1	2.0	2.1
Below Normal (6%)	2.0	2.0	1.7	2.6	2.7	3.0	2.7	2.7	1.7	1.6	1.7	1.8
Dry (13%)	2.0	1.8	1.7	1.8	1.8	1.8	1.7	1.7	1.4	1.6	1.7	1.9
Critical (25%)	1.8	1.7	1.7	1.7	1.7	1.5	1.5	1.5	1.3	1.5	1.7	1.8

Alternative 9 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.8	**-0.1**	1.8	2.1	1.7	1.6	1.4	1.5	**-1.0**	**-0.6**	0.0	0.4
20%	0.7	0.6	2.3	2.5	1.7	1.6	1.9	2.1	**-1.0**	**0.0**	0.2	0.5
30%	0.5	0.6	2.4	2.7	2.5	2.5	2.6	2.1	**-0.4**	0.3	0.3	0.6
40%	0.5	0.6	2.4	2.4	2.4	2.8	2.6	2.2	0.1	0.7	0.4	0.6
50%	0.6	0.5	2.5	2.4	2.3	2.2	2.3	2.0	0.3	0.5	0.5	0.5
60%	0.6	0.5	2.4	2.3	2.3	2.2	2.2	1.9	0.3	0.5	0.5	0.4
70%	0.6	0.5	2.4	2.3	2.3	2.2	2.1	1.9	0.4	0.7	0.6	0.5
80%	0.4	0.4	2.4	2.3	2.2	2.2	2.1	1.9	0.4	0.7	0.5	0.5
90%	0.4	0.3	2.4	2.2	2.2	2.2	2.1	1.8	0.4	0.7	0.5	0.5
Long Term												
Full Simulation Period[a]	0.5	0.3	2.3	2.3	2.1	2.1	2.1	1.9	**0.0**	0.3	0.4	0.5
Water Year Types[b]												
Wet (31%)	0.5	**-0.1**	2.0	2.0	1.9	1.9	1.7	1.7	**-0.5**	**-0.2**	0.0	0.4
Above Normal (25%)	0.4	0.5	2.4	2.6	2.2	2.1	2.2	2.1	**-0.9**	**-0.3**	0.2	0.6
Below Normal (6%)	0.7	0.6	2.4	2.7	2.4	2.5	2.6	2.1	0.1	0.5	0.3	0.4
Dry (13%)	0.6	0.5	2.4	2.4	2.3	2.2	2.2	1.9	0.4	0.6	0.5	0.5
Critical (25%)	0.5	0.5	2.3	2.2	2.2	2.1	2.1	1.8	0.4	0.7	0.5	0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-27-2-14. Old River at Tracy Blvd, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.5	3.2	2.3	3.1	3.7	4.1	3.3	2.7	2.7	2.5	2.3	2.8
20%	2.3	2.1	0.8	1.5	2.5	3.1	2.1	1.7	2.5	2.3	2.2	2.5
30%	2.2	2.1	0.7	1.2	1.7	1.6	1.3	1.5	2.4	2.2	2.2	2.3
40%	2.2	2.1	0.7	0.9	1.2	1.4	1.0	1.1	2.2	2.0	2.1	2.2
50%	2.1	2.0	0.6	0.8	0.8	0.9	0.8	1.0	2.0	1.9	2.1	2.2
60%	2.1	1.9	0.6	0.6	0.7	0.8	0.7	0.9	1.9	1.8	2.1	2.1
70%	2.1	1.9	0.5	0.6	0.7	0.7	0.7	0.9	1.9	1.8	2.0	2.1
80%	2.0	1.9	0.4	0.5	0.7	0.5	0.6	0.8	1.8	1.8	2.0	2.1
90%	2.0	1.9	0.3	0.5	0.6	0.4	0.4	0.8	1.8	1.7	2.0	2.0
Long Term												
Full Simulation Period[a]	2.2	2.2	1.0	1.3	1.7	1.9	1.4	1.5	2.2	2.0	2.2	2.3
Water Year Types[b]												
Wet (31%)	2.6	3.0	2.5	2.5	3.5	4.6	3.0	2.6	2.8	2.4	2.4	2.9
Above Normal (25%)	2.1	1.9	0.7	2.4	3.1	2.5	1.9	2.1	2.6	2.4	2.2	2.3
Below Normal (6%)	2.1	2.1	0.3	1.1	1.2	1.4	1.2	1.4	2.2	1.8	2.1	2.0
Dry (13%)	2.2	2.0	0.5	0.6	0.6	0.7	0.7	0.9	1.9	1.8	2.0	2.1
Critical (25%)	2.1	2.0	0.6	0.6	0.7	0.6	0.6	0.8	1.8	1.8	2.1	2.1

Alternative 1A,1B,1C (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.6	2.0	3.0	3.6	4.3	4.6	3.7	2.7	1.4	1.4	1.4	1.6
20%	1.3	1.2	1.3	2.0	3.2	3.6	2.3	1.5	1.2	1.3	1.4	1.4
30%	1.2	1.2	1.2	1.7	2.4	2.3	1.4	1.4	1.2	1.2	1.3	1.4
40%	1.2	1.1	1.1	1.4	1.7	2.0	1.1	1.2	1.1	1.2	1.2	1.3
50%	1.1	1.1	1.0	1.2	1.2	1.3	1.1	1.1	1.0	1.1	1.2	1.3
60%	1.1	1.1	1.0	1.1	1.2	1.2	1.1	1.1	1.0	1.1	1.2	1.3
70%	1.1	1.0	0.9	1.0	1.1	1.1	1.0	1.0	1.0	1.1	1.1	1.3
80%	1.1	0.9	0.7	1.0	1.0	0.9	1.0	0.9	1.0	1.1	1.1	1.3
90%	1.0	0.9	0.7	1.0	1.0	0.9	0.8	0.9	0.9	1.0	1.1	1.1
Long Term												
Full Simulation Period[a]	1.3	1.3	1.5	1.8	2.2	2.4	1.7	1.6	1.3	1.2	1.2	1.4
Water Year Types[b]												
Wet (31%)	1.6	2.0	3.0	3.1	4.2	5.2	3.4	2.8	2.0	1.6	1.4	1.8
Above Normal (25%)	1.2	1.1	1.1	2.9	3.7	3.1	2.2	1.8	1.1	1.2	1.2	1.3
Below Normal (6%)	1.1	1.2	0.7	1.5	1.7	2.1	1.3	1.3	1.1	1.1	1.1	1.1
Dry (13%)	1.1	1.0	0.9	1.1	1.1	1.1	1.0	1.1	1.0	1.0	1.1	1.2
Critical (25%)	1.2	1.0	1.0	1.1	1.1	1.0	0.9	0.9	0.9	1.1	1.2	1.3

Alternative 1A,1B,1C (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.9	-1.2	0.7	0.5	0.6	0.5	0.4	0.0	-1.3	-1.1	-0.9	-1.2
20%	-1.0	-0.9	0.5	0.5	0.7	0.5	0.2	-0.2	-1.3	-1.0	-0.9	-1.1
30%	-1.0	-0.9	0.5	0.6	0.7	0.7	0.1	-0.1	-1.3	-1.0	-0.9	-0.9
40%	-1.0	-1.0	0.4	0.5	0.5	0.6	0.2	0.1	-1.1	-0.8	-0.9	-0.9
50%	-1.0	-0.9	0.4	0.4	0.4	0.4	0.3	0.1	-1.0	-0.8	-0.9	-0.8
60%	-1.0	-0.9	0.4	0.5	0.5	0.4	0.3	0.1	-0.9	-0.8	-0.9	-0.8
70%	-1.0	-0.9	0.4	0.4	0.4	0.4	0.4	0.2	-0.9	-0.8	-0.9	-0.8
80%	-0.9	-1.0	0.3	0.5	0.3	0.4	0.4	0.1	-0.8	-0.7	-0.9	-0.8
90%	-1.0	-1.0	0.3	0.5	0.4	0.4	0.3	0.1	-0.9	-0.8	-0.9	-0.9
Long Term												
Full Simulation Period[a]	-1.0	-1.0	0.4	0.5	0.5	0.5	0.3	0.1	-0.9	-0.8	-0.9	-0.9
Water Year Types[b]												
Wet (31%)	-1.0	-1.0	0.5	0.6	0.7	0.6	0.3	0.1	-0.7	-0.9	-1.0	-1.1
Above Normal (25%)	-0.9	-0.8	0.4	0.5	0.6	0.6	0.3	-0.2	-1.5	-1.2	-1.0	-1.0
Below Normal (6%)	-1.0	-1.0	0.4	0.4	0.5	0.7	0.1	-0.1	-1.1	-0.7	-1.0	-0.9
Dry (13%)	-1.1	-1.0	0.5	0.5	0.4	0.4	0.3	0.2	-0.9	-0.8	-0.9	-0.9
Critical (25%)	-0.9	-0.9	0.4	0.4	0.4	0.4	0.3	0.1	-0.9	-0.7	-0.9	-0.8

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-27-2-15. Old River at Tracy Blvd, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.5	3.2	2.3	3.1	3.7	4.1	3.3	2.7	2.7	2.5	2.3	2.8
20%	2.3	2.1	0.8	1.5	2.5	3.1	2.1	1.7	2.5	2.3	2.2	2.5
30%	2.2	2.1	0.7	1.2	1.7	1.6	1.3	1.5	2.4	2.2	2.2	2.3
40%	2.2	2.1	0.7	0.9	1.2	1.4	1.0	1.1	2.2	2.0	2.1	2.2
50%	2.1	2.0	0.6	0.8	0.8	0.9	0.8	1.0	2.0	1.9	2.1	2.2
60%	2.1	1.9	0.6	0.6	0.7	0.8	0.7	0.9	1.9	1.8	2.1	2.1
70%	2.1	1.9	0.5	0.6	0.7	0.7	0.7	0.9	1.9	1.8	2.0	2.1
80%	2.0	1.9	0.4	0.5	0.7	0.5	0.6	0.8	1.8	1.8	2.0	2.1
90%	2.0	1.9	0.3	0.5	0.6	0.4	0.4	0.8	1.8	1.7	2.0	2.0
Long Term												
Full Simulation Period[a]	2.2	2.2	1.0	1.3	1.7	1.9	1.4	1.5	2.2	2.0	2.2	2.3
Water Year Types[b]												
Wet (31%)	2.6	3.0	2.5	2.5	3.5	4.6	3.0	2.6	2.8	2.4	2.4	2.9
Above Normal (25%)	2.1	1.9	0.7	2.4	3.1	2.5	1.9	2.1	2.6	2.4	2.2	2.3
Below Normal (6%)	2.1	2.1	0.3	1.1	1.2	1.4	1.2	1.4	2.2	1.8	2.1	2.0
Dry (13%)	2.2	2.0	0.5	0.6	0.6	0.7	0.7	0.9	1.9	1.8	2.0	2.1
Critical (25%)	2.1	2.0	0.6	0.6	0.7	0.6	0.6	0.8	1.8	1.8	2.1	2.1

Alternative 2A,2B,2C (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.5	3.3	3.1	3.5	4.2	4.6	3.7	2.9	2.6	2.6	2.6	3.1
20%	2.3	2.4	1.3	1.8	3.1	3.6	2.4	1.4	2.4	2.5	2.4	2.8
30%	2.2	2.4	1.1	1.5	2.2	2.0	1.3	1.3	2.4	2.3	2.4	2.6
40%	2.2	2.3	1.1	1.2	1.4	1.5	1.1	1.2	2.2	2.2	2.4	2.4
50%	2.2	2.2	1.0	1.1	1.1	1.2	1.0	1.1	2.1	2.2	2.3	2.4
60%	2.2	2.2	1.0	1.1	1.1	1.1	1.0	1.1	2.0	2.1	2.3	2.4
70%	2.1	2.2	0.9	1.0	1.0	1.0	0.9	1.0	2.0	2.1	2.2	2.3
80%	2.1	2.1	0.9	1.0	0.9	0.8	0.9	0.9	2.0	2.0	2.2	2.3
90%	2.0	2.1	0.8	1.0	0.9	0.8	0.7	0.9	1.9	2.0	2.1	2.2
Long Term												
Full Simulation Period[a]	2.3	2.5	1.5	1.7	2.1	2.3	1.6	1.6	2.3	2.3	2.4	2.6
Water Year Types[b]												
Wet (31%)	2.5	3.3	3.1	3.0	4.0	5.1	3.3	2.8	2.9	2.6	2.7	3.2
Above Normal (25%)	2.1	2.1	1.1	2.7	3.6	3.0	2.0	2.0	2.5	2.4	2.4	2.6
Below Normal (6%)	2.2	2.4	0.7	1.3	1.4	1.5	1.2	1.2	2.2	2.2	2.3	2.3
Dry (13%)	2.2	2.3	1.0	1.0	0.9	1.0	0.9	1.0	2.0	2.1	2.2	2.3
Critical (25%)	2.1	2.2	1.0	1.0	1.0	0.9	0.8	0.9	1.9	2.1	2.2	2.3

Alternative 2A,2B,2C (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.0	0.2	0.7	0.5	0.5	0.5	0.4	0.2	**-0.1**	0.1	0.3	0.3
20%	0.1	0.3	0.5	0.3	0.6	0.5	0.2	**-0.3**	**-0.1**	0.2	0.2	0.3
30%	0.0	0.3	0.4	0.4	0.4	0.4	**0.0**	**-0.2**	**-0.1**	0.1	0.3	0.3
40%	0.0	0.2	0.4	0.3	0.2	0.2	0.1	0.1	**0.0**	0.2	0.2	0.2
50%	0.1	0.2	0.4	0.3	0.3	0.3	0.2	0.1	0.1	0.3	0.2	0.2
60%	0.1	0.3	0.4	0.5	0.4	0.3	0.3	0.1	0.1	0.3	0.2	0.2
70%	0.1	0.2	0.4	0.4	0.3	0.3	0.3	0.1	0.1	0.3	0.2	0.2
80%	0.1	0.2	0.5	0.5	0.3	0.3	0.3	0.1	0.2	0.2	0.2	0.2
90%	0.0	0.2	0.5	0.5	0.3	0.3	0.2	0.1	0.1	0.3	0.2	0.2
Long Term												
Full Simulation Period[a]	0.0	0.2	0.5	0.4	0.4	0.3	0.2	0.1	0.1	0.2	0.2	0.3
Water Year Types[b]												
Wet (31%)	**-0.1**	0.2	0.6	0.5	0.5	0.5	0.3	0.1	0.1	0.2	0.3	0.3
Above Normal (25%)	0.0	0.2	0.4	0.4	0.5	0.4	0.1	**-0.1**	**-0.1**	0.0	0.2	0.4
Below Normal (6%)	0.1	0.3	0.4	0.2	0.2	0.1	0.0	**-0.1**	**0.0**	0.4	0.2	0.3
Dry (13%)	0.0	0.2	0.5	0.4	0.3	0.3	0.2	0.1	0.1	0.3	0.2	0.2
Critical (25%)	0.1	0.2	0.4	0.4	0.3	0.3	0.3	0.1	0.1	0.3	0.1	0.2

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-27-2-16. Old River at Tracy Blvd, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.5	3.2	2.3	3.1	3.7	4.1	3.3	2.7	2.7	2.5	2.3	2.8
20%	2.3	2.1	0.8	1.5	2.5	3.1	2.1	1.7	2.5	2.3	2.2	2.5
30%	2.2	2.1	0.7	1.2	1.7	1.6	1.3	1.5	2.4	2.2	2.2	2.3
40%	2.2	2.1	0.7	0.9	1.2	1.4	1.0	1.1	2.2	2.0	2.1	2.2
50%	2.1	2.0	0.6	0.8	0.8	0.9	0.8	1.0	2.0	1.9	2.1	2.2
60%	2.1	1.9	0.6	0.6	0.7	0.8	0.7	0.9	1.9	1.8	2.1	2.1
70%	2.1	1.9	0.5	0.6	0.7	0.7	0.7	0.9	1.9	1.8	2.0	2.1
80%	2.0	1.9	0.4	0.5	0.7	0.5	0.6	0.8	1.8	1.8	2.0	2.1
90%	2.0	1.9	0.3	0.5	0.6	0.4	0.4	0.8	1.8	1.7	2.0	2.0
Long Term												
Full Simulation Period[a]	2.2	2.2	1.0	1.3	1.7	1.9	1.4	1.5	2.2	2.0	2.2	2.3
Water Year Types[b]												
Wet (31%)	2.6	3.0	2.5	2.5	3.5	4.6	3.0	2.6	2.8	2.4	2.4	2.9
Above Normal (25%)	2.1	1.9	0.7	2.4	3.1	2.5	1.9	2.1	2.6	2.4	2.2	2.3
Below Normal (6%)	2.1	2.1	0.3	1.1	1.2	1.4	1.2	1.4	2.2	1.8	2.1	2.0
Dry (13%)	2.2	2.0	0.5	0.6	0.6	0.7	0.7	0.9	1.9	1.8	2.0	2.1
Critical (25%)	2.1	2.0	0.6	0.6	0.7	0.6	0.6	0.8	1.8	1.8	2.1	2.1

Alternative 3 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.5	1.8	2.9	3.5	4.1	4.6	3.5	2.6	1.3	1.4	1.4	1.6
20%	1.3	1.1	1.2	1.9	3.1	3.5	2.3	1.5	1.2	1.4	1.4	1.4
30%	1.2	1.1	1.2	1.5	2.2	2.2	1.4	1.4	1.2	1.2	1.3	1.4
40%	1.2	1.1	1.0	1.4	1.7	1.8	1.1	1.2	1.1	1.1	1.2	1.3
50%	1.1	1.0	1.0	1.2	1.3	1.3	1.1	1.1	1.0	1.1	1.2	1.3
60%	1.1	1.0	0.9	1.2	1.2	1.2	1.0	1.1	1.0	1.1	1.2	1.3
70%	1.1	1.0	0.9	1.1	1.1	1.1	1.0	1.0	1.0	1.1	1.1	1.2
80%	1.1	1.0	0.9	1.0	1.0	0.9	1.0	0.9	1.0	1.0	1.1	1.2
90%	1.0	0.9	0.6	1.0	1.0	0.9	0.8	0.9	0.9	0.9	1.0	1.1
Long Term												
Full Simulation Period[a]	1.2	1.2	1.4	1.8	2.2	2.4	1.7	1.5	1.2	1.2	1.2	1.3
Water Year Types[b]												
Wet (31%)	1.6	1.9	3.0	2.9	4.1	5.1	3.2	2.7	1.9	1.5	1.4	1.6
Above Normal (25%)	1.1	1.0	1.1	2.8	3.6	3.0	2.1	1.8	1.1	1.2	1.2	1.3
Below Normal (6%)	1.1	1.0	0.7	1.5	1.7	2.0	1.3	1.3	1.1	1.1	1.1	1.1
Dry (13%)	1.1	1.0	0.9	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.2	1.2
Critical (25%)	1.1	1.1	0.9	1.1	1.1	1.0	0.9	0.9	0.9	1.1	1.2	1.3

Alternative 3 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1.0	-1.3	0.5	0.4	0.4	0.4	0.2	-0.1	-1.4	-1.1	-0.9	-1.2
20%	-1.0	-1.0	0.4	0.4	0.6	0.4	0.1	-0.2	-1.3	-0.9	-0.8	-1.1
30%	-1.0	-1.0	0.5	0.4	0.5	0.6	0.1	-0.1	-1.3	-1.0	-0.8	-1.0
40%	-1.0	-1.0	0.3	0.5	0.4	0.4	0.2	0.1	-1.1	-0.9	-0.9	-0.9
50%	-1.0	-1.0	0.4	0.4	0.4	0.4	0.3	0.1	-1.0	-0.8	-0.9	-0.9
60%	-1.0	-0.9	0.4	0.5	0.5	0.4	0.3	0.1	-0.9	-0.8	-0.9	-0.9
70%	-0.9	-0.9	0.4	0.4	0.4	0.4	0.4	0.1	-0.9	-0.8	-0.9	-0.9
80%	-0.9	-0.9	0.4	0.5	0.4	0.4	0.4	0.1	-0.9	-0.8	-0.9	-0.8
90%	-0.9	-1.0	0.3	0.5	0.4	0.4	0.3	0.1	-0.9	-0.8	-0.9	-0.9
Long Term												
Full Simulation Period[a]	-1.0	-1.0	0.4	0.5	0.4	0.4	0.3	0.1	-1.0	-0.8	-0.9	-1.0
Water Year Types[b]												
Wet (31%)	-1.1	-1.1	0.5	0.4	0.5	0.4	0.2	0.1	-0.8	-0.9	-1.0	-1.2
Above Normal (25%)	-0.9	-0.9	0.4	0.4	0.4	0.5	0.2	-0.2	-1.5	-1.2	-1.0	-1.0
Below Normal (6%)	-1.0	-1.1	0.4	0.4	0.4	0.5	0.1	-0.1	-1.1	-0.7	-1.0	-0.9
Dry (13%)	-1.1	-1.0	0.4	0.5	0.4	0.4	0.3	0.1	-0.9	-0.8	-0.8	-0.9
Critical (25%)	-0.9	-0.9	0.3	0.5	0.4	0.4	0.3	0.1	-0.9	-0.7	-0.9	-0.8

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-27-2-17. Old River at Tracy Blvd, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.5	3.2	2.3	3.1	3.7	4.1	3.3	2.7	2.7	2.5	2.3	2.8
20%	2.3	2.1	0.8	1.5	2.5	3.1	2.1	1.7	2.5	2.3	2.2	2.5
30%	2.2	2.1	0.7	1.2	1.7	1.6	1.3	1.5	2.4	2.2	2.2	2.3
40%	2.2	2.1	0.7	0.9	1.2	1.4	1.0	1.1	2.2	2.0	2.1	2.2
50%	2.1	2.0	0.6	0.8	0.8	0.9	0.8	1.0	2.0	1.9	2.1	2.2
60%	2.1	1.9	0.6	0.6	0.7	0.8	0.7	0.9	1.9	1.8	2.1	2.1
70%	2.1	1.9	0.5	0.6	0.7	0.7	0.7	0.9	1.9	1.8	2.0	2.1
80%	2.0	1.9	0.4	0.5	0.7	0.5	0.6	0.8	1.8	1.8	2.0	2.1
90%	2.0	1.9	0.3	0.5	0.6	0.4	0.4	0.8	1.8	1.7	2.0	2.0
Long Term												
Full Simulation Period[a]	2.2	2.2	1.0	1.3	1.7	1.9	1.4	1.5	2.2	2.0	2.2	2.3
Water Year Types[b]												
Wet (31%)	2.6	3.0	2.5	2.5	3.5	4.6	3.0	2.6	2.8	2.4	2.4	2.9
Above Normal (25%)	2.1	1.9	0.7	2.4	3.1	2.5	1.9	2.1	2.6	2.4	2.2	2.3
Below Normal (6%)	2.1	2.1	0.3	1.1	1.2	1.4	1.2	1.4	2.2	1.8	2.1	2.0
Dry (13%)	2.2	2.0	0.5	0.6	0.6	0.7	0.7	0.9	1.9	1.8	2.0	2.1
Critical (25%)	2.1	2.0	0.6	0.6	0.7	0.6	0.6	0.8	1.8	1.8	2.1	2.1

Alternative 4 H1 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.5	3.3	2.9	3.4	4.1	4.5	3.7	2.9	2.6	2.6	2.6	2.9
20%	2.3	2.3	1.2	1.7	2.9	3.6	2.4	1.4	2.4	2.5	2.4	2.6
30%	2.2	2.2	1.1	1.4	2.1	2.0	1.3	1.3	2.4	2.3	2.4	2.5
40%	2.2	2.2	1.1	1.2	1.4	1.6	1.1	1.2	2.2	2.2	2.4	2.4
50%	2.2	2.2	1.1	1.1	1.1	1.2	1.0	1.1	2.1	2.2	2.3	2.4
60%	2.1	2.2	1.0	1.0	1.1	1.1	1.0	1.1	2.0	2.1	2.3	2.4
70%	2.1	2.1	1.0	1.0	1.0	1.0	0.9	1.0	2.0	2.1	2.2	2.3
80%	2.1	2.1	1.0	1.0	0.9	0.8	0.9	0.9	2.0	2.0	2.2	2.3
90%	2.0	2.0	0.8	0.9	0.9	0.8	0.7	0.9	1.9	2.0	2.1	2.2
Long Term												
Full Simulation Period[a]	2.2	2.4	1.5	1.7	2.1	2.3	1.6	1.6	2.3	2.3	2.4	2.5
Water Year Types[b]												
Wet (31%)	2.5	3.3	3.0	2.9	3.9	5.0	3.3	2.8	2.9	2.6	2.6	3.0
Above Normal (25%)	2.1	2.1	1.1	2.6	3.5	3.0	2.0	2.0	2.5	2.4	2.4	2.5
Below Normal (6%)	2.2	2.2	0.7	1.3	1.4	1.7	1.2	1.2	2.2	2.2	2.3	2.3
Dry (13%)	2.2	2.2	1.0	1.0	0.9	1.0	0.9	1.0	2.0	2.1	2.2	2.3
Critical (25%)	2.1	2.1	1.0	0.9	1.0	0.9	0.8	0.9	2.0	2.1	2.2	2.3

Alternative 4 H1 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.0	0.1	0.5	0.3	0.4	0.3	0.4	0.2	-0.1	0.0	0.3	0.1
20%	0.0	0.2	0.4	0.2	0.4	0.5	0.2	-0.3	-0.1	0.2	0.2	0.1
30%	0.0	0.2	0.4	0.2	0.3	0.4	0.0	-0.2	-0.1	0.1	0.2	0.2
40%	0.0	0.1	0.4	0.3	0.2	0.3	0.1	0.1	0.0	0.3	0.2	0.2
50%	0.1	0.2	0.5	0.3	0.3	0.3	0.2	0.1	0.1	0.3	0.2	0.2
60%	0.1	0.2	0.5	0.4	0.4	0.3	0.3	0.1	0.1	0.3	0.2	0.2
70%	0.1	0.2	0.5	0.4	0.3	0.3	0.3	0.1	0.1	0.3	0.2	0.2
80%	0.0	0.2	0.6	0.4	0.3	0.3	0.3	0.1	0.2	0.2	0.2	0.2
90%	0.1	0.2	0.5	0.4	0.3	0.3	0.2	0.1	0.1	0.3	0.2	0.2
Long Term												
Full Simulation Period[a]	0.0	0.2	0.5	0.3	0.3	0.3	0.2	0.1	0.1	0.2	0.2	0.2
Water Year Types[b]												
Wet (31%)	-0.1	0.3	0.5	0.4	0.4	0.4	0.3	0.1	0.1	0.2	0.2	0.2
Above Normal (25%)	0.0	0.2	0.4	0.2	0.4	0.4	0.1	-0.1	-0.1	0.0	0.2	0.2
Below Normal (6%)	0.1	0.1	0.4	0.2	0.2	0.2	0.0	-0.1	0.0	0.4	0.2	0.3
Dry (13%)	0.0	0.2	0.5	0.4	0.3	0.3	0.2	0.1	0.1	0.3	0.2	0.2
Critical (25%)	0.0	0.2	0.4	0.3	0.3	0.3	0.3	0.1	0.1	0.3	0.1	0.2

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-27-2-18. Old River at Tracy Blvd, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.5	3.2	2.3	3.1	3.7	4.1	3.3	2.7	2.7	2.5	2.3	2.8
20%	2.3	2.1	0.8	1.5	2.5	3.1	2.1	1.7	2.5	2.3	2.2	2.5
30%	2.2	2.1	0.7	1.2	1.7	1.6	1.3	1.5	2.4	2.2	2.2	2.3
40%	2.2	2.1	0.7	0.9	1.2	1.4	1.0	1.1	2.2	2.0	2.1	2.2
50%	2.1	2.0	0.6	0.8	0.8	0.9	0.8	1.0	2.0	1.9	2.1	2.2
60%	2.1	1.9	0.6	0.6	0.7	0.8	0.7	0.9	1.9	1.8	2.1	2.1
70%	2.1	1.9	0.5	0.6	0.7	0.7	0.7	0.9	1.9	1.8	2.0	2.1
80%	2.0	1.9	0.4	0.5	0.7	0.5	0.6	0.8	1.8	1.8	2.0	2.1
90%	2.0	1.9	0.3	0.5	0.6	0.4	0.4	0.8	1.8	1.7	2.0	2.0
Long Term												
Full Simulation Period[a]	2.2	2.2	1.0	1.3	1.7	1.9	1.4	1.5	2.2	2.0	2.2	2.3
Water Year Types[b]												
Wet (31%)	2.6	3.0	2.5	2.5	3.5	4.6	3.0	2.6	2.8	2.4	2.4	2.9
Above Normal (25%)	2.1	1.9	0.7	2.4	3.1	2.5	1.9	2.1	2.6	2.4	2.2	2.3
Below Normal (6%)	2.1	2.1	0.3	1.1	1.2	1.4	1.2	1.4	2.2	1.8	2.1	2.0
Dry (13%)	2.2	2.0	0.5	0.6	0.6	0.7	0.7	0.9	1.9	1.8	2.0	2.1
Critical (25%)	2.1	2.0	0.6	0.6	0.7	0.6	0.6	0.8	1.8	1.8	2.1	2.1

Alternative 4 H2 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.5	3.3	2.9	3.4	4.1	4.6	3.7	3.0	2.6	2.8	2.5	3.0
20%	2.3	2.3	1.3	1.7	3.0	3.6	2.4	1.5	2.5	2.5	2.4	2.6
30%	2.2	2.2	1.2	1.4	2.2	2.0	1.3	1.3	2.4	2.4	2.4	2.5
40%	2.2	2.2	1.1	1.2	1.4	1.5	1.1	1.2	2.2	2.2	2.4	2.4
50%	2.2	2.2	1.1	1.1	1.1	1.2	1.1	1.1	2.1	2.2	2.3	2.4
60%	2.2	2.2	1.0	1.1	1.1	1.1	1.0	1.1	2.0	2.2	2.3	2.3
70%	2.1	2.1	1.0	1.0	1.0	1.0	0.9	1.0	2.0	2.1	2.2	2.3
80%	2.1	2.1	0.9	1.0	0.9	0.8	0.9	0.9	2.0	2.1	2.2	2.3
90%	2.0	2.0	0.9	0.9	0.9	0.8	0.7	0.9	1.9	2.0	2.1	2.2
Long Term												
Full Simulation Period[a]	2.3	2.4	1.5	1.7	2.1	2.3	1.7	1.6	2.3	2.3	2.4	2.5
Water Year Types[b]												
Wet (31%)	2.7	3.3	3.0	2.9	3.9	5.1	3.3	2.8	2.9	2.6	2.6	3.0
Above Normal (25%)	2.1	2.1	1.1	2.6	3.6	3.0	2.1	2.0	2.5	2.6	2.5	2.5
Below Normal (6%)	2.2	2.2	0.9	1.3	1.4	1.5	1.2	1.3	2.2	2.2	2.3	2.3
Dry (13%)	2.2	2.2	1.0	1.0	0.9	1.0	0.9	1.0	2.1	2.1	2.2	2.3
Critical (25%)	2.1	2.1	1.0	1.0	1.0	0.9	0.8	0.9	2.0	2.1	2.2	2.3

Alternative 4 H2 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.0	0.2	0.6	0.3	0.4	0.5	0.4	0.2	-0.1	0.2	0.2	0.1
20%	0.0	0.2	0.5	0.2	0.5	0.5	0.2	-0.2	0.0	0.2	0.2	0.1
30%	0.0	0.2	0.5	0.3	0.4	0.3	0.0	-0.2	0.0	0.2	0.3	0.2
40%	0.0	0.1	0.4	0.3	0.2	0.2	0.2	0.1	0.0	0.3	0.2	0.2
50%	0.0	0.2	0.4	0.3	0.3	0.3	0.2	0.1	0.1	0.3	0.2	0.2
60%	0.1	0.2	0.5	0.4	0.4	0.3	0.3	0.2	0.1	0.3	0.2	0.2
70%	0.1	0.2	0.5	0.4	0.3	0.3	0.3	0.1	0.2	0.3	0.2	0.2
80%	0.0	0.2	0.5	0.4	0.3	0.3	0.3	0.1	0.2	0.3	0.2	0.2
90%	0.1	0.2	0.5	0.5	0.3	0.3	0.3	0.1	0.1	0.3	0.2	0.2
Long Term												
Full Simulation Period[a]	0.0	0.2	0.5	0.4	0.3	0.3	0.2	0.1	0.1	0.3	0.2	0.2
Water Year Types[b]												
Wet (31%)	0.0	0.3	0.5	0.4	0.4	0.5	0.3	0.1	0.1	0.2	0.3	0.2
Above Normal (25%)	0.0	0.2	0.4	0.2	0.5	0.4	0.2	0.0	-0.1	0.2	0.2	0.2
Below Normal (6%)	0.1	0.1	0.6	0.3	0.2	0.1	0.0	-0.1	0.0	0.4	0.2	0.3
Dry (13%)	0.0	0.2	0.5	0.4	0.3	0.3	0.3	0.1	0.1	0.3	0.2	0.2
Critical (25%)	0.0	0.1	0.4	0.4	0.3	0.3	0.3	0.2	0.1	0.3	0.1	0.2

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-27-2-19. Old River at Tracy Blvd, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.5	3.2	2.3	3.1	3.7	4.1	3.3	2.7	2.7	2.5	2.3	2.8
20%	2.3	2.1	0.8	1.5	2.5	3.1	2.1	1.7	2.5	2.3	2.2	2.5
30%	2.2	2.1	0.7	1.2	1.7	1.6	1.3	1.5	2.4	2.2	2.2	2.3
40%	2.2	2.1	0.7	0.9	1.2	1.4	1.0	1.1	2.2	2.0	2.1	2.2
50%	2.1	2.0	0.6	0.8	0.8	0.9	0.8	1.0	2.0	1.9	2.1	2.2
60%	2.1	1.9	0.6	0.6	0.7	0.8	0.7	0.9	1.9	1.8	2.1	2.1
70%	2.1	1.9	0.5	0.6	0.7	0.7	0.7	0.9	1.9	1.8	2.0	2.1
80%	2.0	1.9	0.4	0.5	0.7	0.5	0.6	0.8	1.8	1.8	2.0	2.1
90%	2.0	1.9	0.3	0.5	0.6	0.4	0.4	0.8	1.8	1.7	2.0	2.0
Long Term												
Full Simulation Period[a]	2.2	2.2	1.0	1.3	1.7	1.9	1.4	1.5	2.2	2.0	2.2	2.3
Water Year Types[b]												
Wet (31%)	2.6	3.0	2.5	2.5	3.5	4.6	3.0	2.6	2.8	2.4	2.4	2.9
Above Normal (25%)	2.1	1.9	0.7	2.4	3.1	2.5	1.9	2.1	2.6	2.4	2.2	2.3
Below Normal (6%)	2.1	2.1	0.3	1.1	1.2	1.4	1.2	1.4	2.2	1.8	2.1	2.0
Dry (13%)	2.2	2.0	0.5	0.6	0.6	0.7	0.7	0.9	1.9	1.8	2.0	2.1
Critical (25%)	2.1	2.0	0.6	0.6	0.7	0.6	0.6	0.8	1.8	1.8	2.1	2.1

Alternative 4 H3 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.5	3.3	2.9	3.4	4.1	4.6	3.7	2.9	2.6	2.6	2.6	3.1
20%	2.3	2.4	1.2	1.7	2.8	3.6	2.4	1.4	2.4	2.5	2.4	2.8
30%	2.2	2.4	1.2	1.4	2.1	1.9	1.3	1.3	2.4	2.3	2.4	2.7
40%	2.2	2.3	1.1	1.2	1.4	1.5	1.1	1.2	2.2	2.2	2.4	2.4
50%	2.2	2.2	1.0	1.1	1.1	1.2	1.0	1.1	2.1	2.2	2.3	2.4
60%	2.2	2.2	1.0	1.1	1.1	1.1	1.0	1.1	2.0	2.1	2.3	2.3
70%	2.1	2.2	1.0	1.0	1.0	1.0	0.9	1.0	2.0	2.1	2.2	2.3
80%	2.1	2.1	0.9	1.0	0.9	0.8	0.9	0.9	2.0	2.0	2.2	2.3
90%	2.0	2.0	0.9	0.9	0.9	0.8	0.7	0.9	1.9	2.0	2.1	2.2
Long Term												
Full Simulation Period[a]	2.3	2.5	1.5	1.7	2.0	2.3	1.6	1.6	2.3	2.3	2.4	2.6
Water Year Types[b]												
Wet (31%)	2.6	3.3	3.0	2.9	3.9	5.1	3.3	2.8	2.9	2.6	2.6	3.2
Above Normal (25%)	2.1	2.1	1.1	2.6	3.5	3.0	2.0	2.0	2.5	2.4	2.4	2.7
Below Normal (6%)	2.2	2.4	0.8	1.3	1.4	1.5	1.2	1.2	2.2	2.2	2.3	2.3
Dry (13%)	2.2	2.3	1.0	1.0	0.9	1.0	0.9	1.0	2.0	2.1	2.2	2.3
Critical (25%)	2.1	2.2	1.0	1.0	1.0	0.9	0.8	0.9	2.0	2.1	2.2	2.3

Alternative 4 H3 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.0	0.2	0.6	0.3	0.4	0.5	0.4	0.2	**-0.1**	0.0	0.3	0.3
20%	0.1	0.3	0.4	0.2	0.3	0.5	0.2	**-0.3**	**-0.1**	0.2	0.2	0.3
30%	0.0	0.3	0.4	0.2	0.3	0.3	**0.0**	**-0.2**	**-0.1**	0.1	0.2	0.3
40%	0.0	0.2	0.4	0.3	0.2	0.2	0.1	0.1	**0.0**	0.3	0.2	0.2
50%	0.1	0.2	0.4	0.3	0.3	0.3	0.2	0.1	0.1	0.3	0.2	0.2
60%	0.1	0.3	0.4	0.4	0.4	0.3	0.3	0.1	0.1	0.3	0.2	0.2
70%	0.1	0.2	0.5	0.4	0.3	0.3	0.3	0.1	0.1	0.2	0.2	0.2
80%	0.1	0.2	0.5	0.4	0.3	0.3	0.3	0.1	0.2	0.2	0.2	0.2
90%	0.1	0.2	0.5	0.5	0.3	0.3	0.2	0.1	0.1	0.3	0.2	0.2
Long Term												
Full Simulation Period[a]	0.0	0.2	0.5	0.3	0.3	0.3	0.2	0.1	0.1	0.2	0.2	0.3
Water Year Types[b]												
Wet (31%)	**0.0**	0.2	0.5	0.4	0.4	0.4	0.3	0.1	0.1	0.2	0.2	0.3
Above Normal (25%)	0.0	0.2	0.4	0.2	0.4	0.4	0.1	**-0.1**	**-0.1**	0.0	0.2	0.4
Below Normal (6%)	0.1	0.3	0.5	0.2	0.2	0.1	0.0	**-0.1**	**0.0**	0.4	0.2	0.3
Dry (13%)	0.0	0.2	0.5	0.4	0.3	0.3	0.2	0.1	0.1	0.3	0.2	0.2
Critical (25%)	0.1	0.2	0.4	0.3	0.3	0.3	0.3	0.1	0.1	0.3	0.1	0.2

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-27-2-20. Old River at Tracy Blvd, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.5	3.2	2.3	3.1	3.7	4.1	3.3	2.7	2.7	2.5	2.3	2.8
20%	2.3	2.1	0.8	1.5	2.5	3.1	2.1	1.7	2.5	2.3	2.2	2.5
30%	2.2	2.1	0.7	1.2	1.7	1.6	1.3	1.5	2.4	2.2	2.2	2.3
40%	2.2	2.1	0.7	0.9	1.2	1.4	1.0	1.1	2.2	2.0	2.1	2.2
50%	2.1	2.0	0.6	0.8	0.8	0.9	0.8	1.0	2.0	1.9	2.1	2.2
60%	2.1	1.9	0.6	0.6	0.7	0.8	0.7	0.9	1.9	1.8	2.1	2.1
70%	2.1	1.9	0.5	0.6	0.7	0.7	0.7	0.9	1.9	1.8	2.0	2.1
80%	2.0	1.9	0.4	0.5	0.7	0.5	0.6	0.8	1.8	1.8	2.0	2.1
90%	2.0	1.9	0.3	0.5	0.6	0.4	0.4	0.8	1.8	1.7	2.0	2.0
Long Term												
Full Simulation Period[a]	2.2	2.2	1.0	1.3	1.7	1.9	1.4	1.5	2.2	2.0	2.2	2.3
Water Year Types[b]												
Wet (31%)	2.6	3.0	2.5	2.5	3.5	4.6	3.0	2.6	2.8	2.4	2.4	2.9
Above Normal (25%)	2.1	1.9	0.7	2.4	3.1	2.5	1.9	2.1	2.6	2.4	2.2	2.3
Below Normal (6%)	2.1	2.1	0.3	1.1	1.2	1.4	1.2	1.4	2.2	1.8	2.1	2.0
Dry (13%)	2.2	2.0	0.5	0.6	0.6	0.7	0.7	0.9	1.9	1.8	2.0	2.1
Critical (25%)	2.1	2.0	0.6	0.6	0.7	0.6	0.6	0.8	1.8	1.8	2.1	2.1

Alternative 4 H4 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.5	3.3	2.9	3.5	4.1	4.6	3.7	3.0	2.6	2.8	2.5	3.1
20%	2.3	2.4	1.2	1.7	2.9	3.6	2.4	1.5	2.5	2.5	2.4	2.8
30%	2.2	2.4	1.1	1.5	2.1	2.0	1.3	1.3	2.4	2.4	2.4	2.7
40%	2.2	2.3	1.1	1.2	1.4	1.5	1.1	1.2	2.2	2.3	2.4	2.4
50%	2.2	2.2	1.1	1.1	1.1	1.2	1.1	1.1	2.1	2.2	2.3	2.4
60%	2.2	2.2	1.0	1.1	1.1	1.1	1.0	1.1	2.0	2.1	2.3	2.3
70%	2.1	2.2	0.9	1.0	1.0	1.0	0.9	1.0	2.0	2.1	2.2	2.3
80%	2.1	2.1	0.9	1.0	0.9	0.9	0.9	0.9	2.0	2.1	2.2	2.3
90%	2.0	2.1	0.8	0.9	0.9	0.8	0.7	0.9	1.9	2.0	2.1	2.3
Long Term												
Full Simulation Period[a]	2.3	2.5	1.5	1.7	2.1	2.3	1.7	1.6	2.3	2.3	2.4	2.6
Water Year Types[b]												
Wet (31%)	2.6	3.2	3.0	3.0	3.9	5.1	3.3	2.8	2.9	2.6	2.6	3.2
Above Normal (25%)	2.1	2.1	1.1	2.7	3.5	3.0	2.1	2.0	2.5	2.6	2.5	2.7
Below Normal (6%)	2.2	2.4	0.8	1.3	1.4	1.5	1.2	1.3	2.2	2.2	2.3	2.3
Dry (13%)	2.2	2.3	1.0	1.0	0.9	1.0	0.9	1.0	2.1	2.1	2.2	2.3
Critical (25%)	2.1	2.2	1.0	1.0	1.0	0.9	0.8	0.9	2.0	2.1	2.2	2.3

Alternative 4 H4 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.0	0.1	0.5	0.4	0.4	0.5	0.4	0.2	**-0.1**	0.3	0.2	0.3
20%	0.1	0.3	0.4	0.3	0.4	0.5	0.2	**-0.2**	**0.0**	0.2	0.2	0.3
30%	0.0	0.3	0.4	0.4	0.3	0.3	0.0	**-0.2**	**0.0**	0.2	0.2	0.3
40%	0.0	0.2	0.4	0.3	0.2	0.2	0.2	0.1	0.0	0.3	0.2	0.2
50%	0.1	0.2	0.5	0.3	0.3	0.3	0.2	0.1	0.1	0.3	0.2	0.2
60%	0.1	0.3	0.4	0.4	0.3	0.3	0.3	0.2	0.1	0.3	0.2	0.2
70%	0.1	0.2	0.4	0.4	0.3	0.3	0.3	0.1	0.2	0.3	0.2	0.2
80%	0.0	0.2	0.5	0.4	0.3	0.4	0.3	0.1	0.2	0.3	0.2	0.2
90%	0.0	0.2	0.5	0.5	0.3	0.3	0.3	0.1	0.1	0.3	0.2	0.2
Long Term												
Full Simulation Period[a]	0.0	0.2	0.5	0.4	0.3	0.3	0.3	0.1	0.1	0.3	0.2	0.3
Water Year Types[b]												
Wet (31%)	**0.0**	0.2	0.5	0.5	0.4	0.5	0.3	0.1	0.1	0.2	0.2	0.3
Above Normal (25%)	0.0	0.3	0.4	0.3	0.4	0.4	0.2	**0.0**	**-0.1**	0.2	0.2	0.4
Below Normal (6%)	0.1	0.3	0.5	0.3	0.2	0.1	0.0	**-0.1**	0.0	0.4	0.2	0.3
Dry (13%)	0.0	0.3	0.5	0.4	0.3	0.3	0.3	0.1	0.1	0.3	0.2	0.2
Critical (25%)	0.1	0.2	0.4	0.4	0.3	0.3	0.3	0.2	0.1	0.3	0.1	0.2

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-27-2-21. Old River at Tracy Blvd, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.5	3.2	2.3	3.1	3.7	4.1	3.3	2.7	2.7	2.5	2.3	2.8
20%	2.3	2.1	0.8	1.5	2.5	3.1	2.1	1.7	2.5	2.3	2.2	2.5
30%	2.2	2.1	0.7	1.2	1.7	1.6	1.3	1.5	2.4	2.2	2.2	2.3
40%	2.2	2.1	0.7	0.9	1.2	1.4	1.0	1.1	2.2	2.0	2.1	2.2
50%	2.1	2.0	0.6	0.8	0.8	0.9	0.8	1.0	2.0	1.9	2.1	2.2
60%	2.1	1.9	0.6	0.6	0.7	0.8	0.7	0.9	1.9	1.8	2.1	2.1
70%	2.1	1.9	0.5	0.6	0.7	0.7	0.7	0.9	1.9	1.8	2.0	2.1
80%	2.0	1.9	0.4	0.5	0.7	0.5	0.6	0.8	1.8	1.8	2.0	2.1
90%	2.0	1.9	0.3	0.5	0.6	0.4	0.4	0.8	1.8	1.7	2.0	2.0
Long Term												
Full Simulation Period[a]	2.2	2.2	1.0	1.3	1.7	1.9	1.4	1.5	2.2	2.0	2.2	2.3
Water Year Types[b]												
Wet (31%)	2.6	3.0	2.5	2.5	3.5	4.6	3.0	2.6	2.8	2.4	2.4	2.9
Above Normal (25%)	2.1	1.9	0.7	2.4	3.1	2.5	1.9	2.1	2.6	2.4	2.2	2.3
Below Normal (6%)	2.1	2.1	0.3	1.1	1.2	1.4	1.2	1.4	2.2	1.8	2.1	2.0
Dry (13%)	2.2	2.0	0.5	0.6	0.6	0.7	0.7	0.9	1.9	1.8	2.0	2.1
Critical (25%)	2.1	2.0	0.6	0.6	0.7	0.6	0.6	0.8	1.8	1.8	2.1	2.1

Alternative 5 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.6	3.3	2.8	3.3	4.0	4.4	3.5	2.9	2.7	2.6	2.5	3.1
20%	2.5	2.4	1.2	1.8	2.8	3.3	2.4	1.9	2.6	2.4	2.4	2.6
30%	2.3	2.3	1.1	1.5	2.1	1.9	1.6	1.7	2.5	2.3	2.4	2.5
40%	2.3	2.2	1.0	1.2	1.5	1.7	1.3	1.4	2.3	2.2	2.3	2.4
50%	2.3	2.1	1.0	1.2	1.2	1.3	1.2	1.3	2.1	2.1	2.3	2.3
60%	2.2	2.1	1.0	1.2	1.2	1.2	1.1	1.2	2.1	2.1	2.3	2.3
70%	2.1	2.1	0.9	1.1	1.0	1.1	1.0	1.1	2.0	2.0	2.2	2.3
80%	2.1	2.0	0.7	1.0	1.0	0.9	1.0	1.1	2.0	2.0	2.2	2.3
90%	2.1	2.0	0.6	0.9	0.9	0.8	0.8	1.0	2.0	2.0	2.1	2.2
Long Term												
Full Simulation Period[a]	2.4	2.4	1.4	1.7	2.1	2.3	1.7	1.7	2.3	2.2	2.3	2.5
Water Year Types[b]												
Wet (31%)	2.7	3.2	2.9	2.9	3.8	4.9	3.3	2.8	2.9	2.6	2.6	3.1
Above Normal (25%)	2.1	2.0	1.1	2.6	3.5	2.9	2.1	2.2	2.6	2.5	2.4	2.5
Below Normal (6%)	2.2	2.4	0.7	1.4	1.5	1.7	1.5	1.6	2.3	2.0	2.3	2.3
Dry (13%)	2.3	2.2	0.8	1.0	1.0	1.1	1.0	1.2	2.1	2.1	2.2	2.3
Critical (25%)	2.2	2.1	1.0	1.1	1.1	1.0	0.9	1.0	2.0	2.1	2.2	2.3

Alternative 5 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.1	0.1	0.5	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.2	0.3
20%	0.2	0.2	0.4	0.4	0.3	0.3	0.3	0.2	0.1	0.1	0.2	0.1
30%	0.1	0.2	0.4	0.4	0.4	0.3	0.3	0.2	0.1	0.1	0.2	0.2
40%	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.1	0.2	0.2	0.2
50%	0.1	0.1	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.3	0.2	0.2
60%	0.2	0.2	0.4	0.6	0.5	0.4	0.3	0.3	0.1	0.2	0.2	0.2
70%	0.1	0.1	0.4	0.4	0.4	0.4	0.4	0.3	0.2	0.2	0.1	0.2
80%	0.1	0.2	0.3	0.5	0.3	0.4	0.4	0.3	0.2	0.2	0.2	0.2
90%	0.1	0.1	0.3	0.4	0.4	0.4	0.4	0.2	0.2	0.3	0.2	0.2
Long Term												
Full Simulation Period[a]	0.1	0.2	0.4	0.4	0.4	0.3	0.3	0.2	0.1	0.2	0.2	0.2
Water Year Types[b]												
Wet (31%)	0.1	0.2	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.1	0.2	0.2
Above Normal (25%)	0.1	0.1	0.4	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.2	0.2
Below Normal (6%)	0.2	0.2	0.4	0.3	0.3	0.3	0.3	0.2	0.1	0.2	0.2	0.3
Dry (13%)	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.3	0.2	0.3	0.2	0.2
Critical (25%)	0.1	0.1	0.3	0.4	0.4	0.4	0.4	0.3	0.2	0.2	0.1	0.2

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-27-2-22. Old River at Tracy Blvd, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.5	3.2	2.3	3.1	3.7	4.1	3.3	2.7	2.7	2.5	2.3	2.8
20%	2.3	2.1	0.8	1.5	2.5	3.1	2.1	1.7	2.5	2.3	2.2	2.5
30%	2.2	2.1	0.7	1.2	1.7	1.6	1.3	1.5	2.4	2.2	2.2	2.3
40%	2.2	2.1	0.7	0.9	1.2	1.4	1.0	1.1	2.2	2.0	2.1	2.2
50%	2.1	2.0	0.6	0.8	0.8	0.9	0.8	1.0	2.0	1.9	2.1	2.2
60%	2.1	1.9	0.6	0.6	0.7	0.8	0.7	0.9	1.9	1.8	2.1	2.1
70%	2.1	1.9	0.5	0.6	0.7	0.7	0.7	0.9	1.9	1.8	2.0	2.1
80%	2.0	1.9	0.4	0.5	0.7	0.5	0.6	0.8	1.8	1.8	2.0	2.1
90%	2.0	1.9	0.3	0.5	0.6	0.4	0.4	0.8	1.8	1.7	2.0	2.0
Long Term												
Full Simulation Period[a]	2.2	2.2	1.0	1.3	1.7	1.9	1.4	1.5	2.2	2.0	2.2	2.3
Water Year Types[b]												
Wet (31%)	2.6	3.0	2.5	2.5	3.5	4.6	3.0	2.6	2.8	2.4	2.4	2.9
Above Normal (25%)	2.1	1.9	0.7	2.4	3.1	2.5	1.9	2.1	2.6	2.4	2.2	2.3
Below Normal (6%)	2.1	2.1	0.3	1.1	1.2	1.4	1.2	1.4	2.2	1.8	2.1	2.0
Dry (13%)	2.2	2.0	0.5	0.6	0.6	0.7	0.7	0.9	1.9	1.8	2.0	2.1
Critical (25%)	2.1	2.0	0.6	0.6	0.7	0.6	0.6	0.8	1.8	1.8	2.1	2.1

Alternative 6A,6B,6C (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.8	2.2	3.1	3.6	4.3	4.6	3.7	2.9	1.5	1.6	1.6	2.0
20%	1.5	1.5	1.4	2.1	3.2	3.6	2.5	1.8	1.3	1.5	1.6	1.6
30%	1.5	1.4	1.4	1.8	2.4	2.3	1.6	1.6	1.3	1.4	1.5	1.6
40%	1.4	1.3	1.4	1.5	1.9	2.0	1.4	1.3	1.2	1.4	1.4	1.5
50%	1.4	1.3	1.3	1.4	1.4	1.4	1.3	1.3	1.1	1.3	1.4	1.5
60%	1.4	1.3	1.3	1.3	1.4	1.3	1.1	1.2	1.1	1.3	1.4	1.5
70%	1.3	1.2	1.3	1.3	1.3	1.2	1.1	1.1	1.1	1.2	1.3	1.4
80%	1.3	1.2	1.2	1.2	1.2	1.1	1.1	1.0	1.0	1.2	1.3	1.4
90%	1.2	1.1	1.1	1.1	1.1	1.0	0.9	1.0	1.0	1.1	1.3	1.4
Long Term												
Full Simulation Period[a]	1.5	1.5	1.7	2.0	2.3	2.5	1.8	1.7	1.3	1.4	1.5	1.6
Water Year Types[b]												
Wet (31%)	1.8	2.2	3.2	3.1	4.2	5.2	3.5	2.9	2.1	1.8	1.7	2.0
Above Normal (25%)	1.3	1.2	1.4	3.0	3.7	3.1	2.2	2.1	1.3	1.4	1.5	1.5
Below Normal (6%)	1.4	1.4	1.2	1.8	1.9	2.1	1.5	1.5	1.1	1.2	1.3	1.4
Dry (13%)	1.4	1.3	1.3	1.3	1.3	1.3	1.1	1.1	1.1	1.2	1.4	1.5
Critical (25%)	1.4	1.3	1.2	1.2	1.2	1.1	1.0	1.0	1.0	1.2	1.4	1.4

Alternative 6A,6B,6C (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.7	-1.0	0.7	0.6	0.6	0.5	0.4	0.1	-1.2	-1.0	-0.7	-0.8
20%	-0.8	-0.6	0.6	0.7	0.7	0.6	0.4	0.1	-1.2	-0.8	-0.7	-0.9
30%	-0.7	-0.7	0.7	0.7	0.7	0.7	0.4	0.1	-1.2	-0.8	-0.7	-0.7
40%	-0.7	-0.7	0.7	0.7	0.7	0.6	0.4	0.2	-1.0	-0.6	-0.7	-0.7
50%	-0.7	-0.7	0.7	0.6	0.6	0.5	0.5	0.2	-0.9	-0.6	-0.7	-0.7
60%	-0.7	-0.7	0.7	0.7	0.6	0.5	0.4	0.2	-0.8	-0.6	-0.7	-0.7
70%	-0.7	-0.7	0.8	0.6	0.6	0.5	0.5	0.2	-0.8	-0.6	-0.7	-0.7
80%	-0.7	-0.7	0.7	0.7	0.6	0.6	0.5	0.2	-0.8	-0.6	-0.7	-0.7
90%	-0.7	-0.7	0.7	0.7	0.6	0.6	0.5	0.2	-0.8	-0.6	-0.7	-0.7
Long Term												
Full Simulation Period[a]	-0.8	-0.8	0.7	0.6	0.6	0.5	0.4	0.2	-0.9	-0.6	-0.7	-0.7
Water Year Types[b]												
Wet (31%)	-0.8	-0.8	0.7	0.6	0.7	0.6	0.4	0.3	-0.7	-0.6	-0.7	-0.9
Above Normal (25%)	-0.8	-0.6	0.7	0.6	0.6	0.5	0.3	0.0	-1.2	-1.0	-0.7	-0.8
Below Normal (6%)	-0.6	-0.7	0.9	0.7	0.7	0.7	0.3	0.1	-1.1	-0.7	-0.7	-0.6
Dry (13%)	-0.8	-0.7	0.8	0.7	0.6	0.6	0.5	0.2	-0.8	-0.5	-0.6	-0.7
Critical (25%)	-0.7	-0.7	0.6	0.6	0.5	0.5	0.4	0.2	-0.8	-0.6	-0.7	-0.7

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-27-2-23. Old River at Tracy Blvd, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.5	3.2	2.3	3.1	3.7	4.1	3.3	2.7	2.7	2.5	2.3	2.8
20%	2.3	2.1	0.8	1.5	2.5	3.1	2.1	1.7	2.5	2.3	2.2	2.5
30%	2.2	2.1	0.7	1.2	1.7	1.6	1.3	1.5	2.4	2.2	2.2	2.3
40%	2.2	2.1	0.7	0.9	1.2	1.4	1.0	1.1	2.2	2.0	2.1	2.2
50%	2.1	2.0	0.6	0.8	0.8	0.9	0.8	1.0	2.0	1.9	2.1	2.2
60%	2.1	1.9	0.6	0.6	0.7	0.8	0.7	0.9	1.9	1.8	2.1	2.1
70%	2.1	1.9	0.5	0.6	0.7	0.7	0.7	0.9	1.9	1.8	2.0	2.1
80%	2.0	1.9	0.4	0.5	0.7	0.5	0.6	0.8	1.8	1.8	2.0	2.1
90%	2.0	1.9	0.3	0.5	0.6	0.4	0.4	0.8	1.8	1.7	2.0	2.0
Long Term												
Full Simulation Period[a]	2.2	2.2	1.0	1.3	1.7	1.9	1.4	1.5	2.2	2.0	2.2	2.3
Water Year Types[b]												
Wet (31%)	2.6	3.0	2.5	2.5	3.5	4.6	3.0	2.6	2.8	2.4	2.4	2.9
Above Normal (25%)	2.1	1.9	0.7	2.4	3.1	2.5	1.9	2.1	2.6	2.4	2.2	2.3
Below Normal (6%)	2.1	2.1	0.3	1.1	1.2	1.4	1.2	1.4	2.2	1.8	2.1	2.0
Dry (13%)	2.2	2.0	0.5	0.6	0.6	0.7	0.7	0.9	1.9	1.8	2.0	2.1
Critical (25%)	2.1	2.0	0.6	0.6	0.7	0.6	0.6	0.8	1.8	1.8	2.1	2.1

Alternative 7 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.8	2.2	2.9	3.5	4.0	4.6	3.7	2.9	1.5	1.2	1.3	2.0
20%	1.5	1.5	1.4	2.1	3.0	3.4	2.5	1.8	1.4	1.1	1.3	1.7
30%	1.5	1.4	1.4	1.8	2.3	2.2	1.7	1.6	1.3	1.1	1.2	1.5
40%	1.4	1.3	1.4	1.5	1.8	2.0	1.4	1.3	1.2	1.0	1.2	1.4
50%	1.4	1.3	1.3	1.4	1.4	1.4	1.3	1.3	1.1	1.0	1.2	1.3
60%	1.4	1.3	1.3	1.3	1.4	1.3	1.1	1.2	1.1	0.9	1.1	1.3
70%	1.3	1.2	1.3	1.3	1.3	1.2	1.1	1.1	1.1	0.9	1.1	1.3
80%	1.3	1.2	1.2	1.2	1.2	1.1	1.1	1.0	1.1	0.9	1.1	1.2
90%	1.2	1.1	1.1	1.1	1.1	1.0	0.9	1.0	1.0	0.8	1.0	1.1
Long Term												
Full Simulation Period[a]	1.5	1.5	1.7	1.9	2.3	2.4	1.8	1.7	1.4	1.1	1.2	1.5
Water Year Types[b]												
Wet (31%)	1.8	2.2	3.0	3.0	4.1	5.1	3.5	2.9	2.1	1.4	1.3	2.0
Above Normal (25%)	1.3	1.2	1.4	2.9	3.5	3.0	2.3	2.1	1.3	1.1	1.1	1.5
Below Normal (6%)	1.4	1.4	1.2	1.7	1.8	2.0	1.6	1.5	1.2	0.8	1.1	1.1
Dry (13%)	1.4	1.3	1.3	1.2	1.3	1.3	1.1	1.1	1.1	0.8	1.1	1.2
Critical (25%)	1.3	1.3	1.2	1.2	1.2	1.1	1.0	1.0	1.0	1.0	1.2	1.3

Alternative 7 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.7	-1.0	0.6	0.4	0.3	0.4	0.4	0.2	-1.1	-1.3	-1.0	-0.8
20%	-0.8	-0.7	0.6	0.6	0.5	0.3	0.4	0.1	-1.2	-1.2	-0.9	-0.9
30%	-0.7	-0.7	0.7	0.6	0.6	0.6	0.4	0.1	-1.1	-1.1	-0.9	-0.8
40%	-0.7	-0.7	0.7	0.6	0.6	0.6	0.4	0.2	-1.0	-0.9	-0.9	-0.8
50%	-0.7	-0.7	0.7	0.6	0.6	0.5	0.5	0.2	-0.8	-0.9	-0.9	-0.8
60%	-0.7	-0.7	0.7	0.7	0.6	0.5	0.4	0.2	-0.8	-0.9	-1.0	-0.8
70%	-0.7	-0.7	0.8	0.6	0.6	0.5	0.5	0.2	-0.8	-0.9	-1.0	-0.8
80%	-0.7	-0.7	0.7	0.7	0.6	0.6	0.5	0.2	-0.7	-0.9	-0.9	-0.9
90%	-0.7	-0.7	0.7	0.7	0.6	0.6	0.5	0.2	-0.8	-0.9	-1.0	-0.9
Long Term												
Full Simulation Period[a]	-0.8	-0.8	0.7	0.6	0.5	0.5	0.4	0.2	-0.8	-1.0	-1.0	-0.9
Water Year Types[b]												
Wet (31%)	-0.9	-0.8	0.5	0.5	0.5	0.5	0.4	0.3	-0.7	-1.0	-1.1	-0.9
Above Normal (25%)	-0.8	-0.6	0.7	0.5	0.3	0.5	0.4	0.1	-1.2	-1.3	-1.1	-0.8
Below Normal (6%)	-0.6	-0.7	0.8	0.6	0.6	0.5	0.4	0.1	-1.0	-1.0	-1.0	-0.9
Dry (13%)	-0.8	-0.7	0.8	0.7	0.6	0.6	0.5	0.2	-0.8	-0.9	-0.9	-0.9
Critical (25%)	-0.7	-0.7	0.6	0.6	0.5	0.5	0.4	0.2	-0.8	-0.8	-0.9	-0.8

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-27-2-24. Old River at Tracy Blvd, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.5	3.2	2.3	3.1	3.7	4.1	3.3	2.7	2.7	2.5	2.3	2.8
20%	2.3	2.1	0.8	1.5	2.5	3.1	2.1	1.7	2.5	2.3	2.2	2.5
30%	2.2	2.1	0.7	1.2	1.7	1.6	1.3	1.5	2.4	2.2	2.2	2.3
40%	2.2	2.1	0.7	0.9	1.2	1.4	1.0	1.1	2.2	2.0	2.1	2.2
50%	2.1	2.0	0.6	0.8	0.8	0.9	0.8	1.0	2.0	1.9	2.1	2.2
60%	2.1	1.9	0.6	0.6	0.7	0.8	0.7	0.9	1.9	1.8	2.1	2.1
70%	2.1	1.9	0.5	0.6	0.7	0.7	0.7	0.9	1.9	1.8	2.0	2.1
80%	2.0	1.9	0.4	0.5	0.7	0.5	0.6	0.8	1.8	1.8	2.0	2.1
90%	2.0	1.9	0.3	0.5	0.6	0.4	0.4	0.8	1.8	1.7	2.0	2.0
Long Term												
Full Simulation Period[a]	2.2	2.2	1.0	1.3	1.7	1.9	1.4	1.5	2.2	2.0	2.2	2.3
Water Year Types[b]												
Wet (31%)	2.6	3.0	2.5	2.5	3.5	4.6	3.0	2.6	2.8	2.4	2.4	2.9
Above Normal (25%)	2.1	1.9	0.7	2.4	3.1	2.5	1.9	2.1	2.6	2.4	2.2	2.3
Below Normal (6%)	2.1	2.1	0.3	1.1	1.2	1.4	1.2	1.4	2.2	1.8	2.1	2.0
Dry (13%)	2.2	2.0	0.5	0.6	0.6	0.7	0.7	0.9	1.9	1.8	2.0	2.1
Critical (25%)	2.1	2.0	0.6	0.6	0.7	0.6	0.6	0.8	1.8	1.8	2.1	2.1

Alternative 8 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.8	2.2	3.0	3.4	4.1	4.6	3.7	3.0	1.5	1.5	1.3	2.0
20%	1.5	1.5	1.4	2.0	3.0	3.4	2.6	1.8	1.4	1.3	1.3	1.7
30%	1.4	1.4	1.4	1.8	2.3	2.2	1.7	1.6	1.3	1.3	1.2	1.6
40%	1.4	1.4	1.4	1.5	1.8	2.0	1.4	1.3	1.2	1.2	1.2	1.4
50%	1.4	1.3	1.3	1.4	1.4	1.5	1.3	1.3	1.1	1.1	1.2	1.3
60%	1.4	1.3	1.3	1.3	1.4	1.4	1.2	1.2	1.1	1.0	1.1	1.3
70%	1.3	1.2	1.3	1.3	1.3	1.2	1.1	1.1	1.1	1.0	1.1	1.3
80%	1.3	1.2	1.2	1.2	1.2	1.1	1.1	1.0	1.1	1.0	1.0	1.2
90%	1.2	1.1	1.1	1.1	1.1	1.0	0.9	1.0	1.0	0.9	1.0	1.2
Long Term												
Full Simulation Period[a]	1.5	1.5	1.7	1.9	2.3	2.4	1.9	1.7	1.4	1.2	1.2	1.5
Water Year Types[b]												
Wet (31%)	1.8	2.1	3.0	3.0	4.0	5.1	3.5	2.9	2.1	1.6	1.3	2.0
Above Normal (25%)	1.3	1.2	1.4	2.8	3.6	3.0	2.3	2.2	1.3	1.3	1.2	1.6
Below Normal (6%)	1.4	1.4	1.2	1.7	1.8	2.0	1.6	1.5	1.2	0.9	1.0	1.2
Dry (13%)	1.4	1.3	1.3	1.3	1.3	1.3	1.1	1.1	1.1	1.1	1.1	1.2
Critical (25%)	1.3	1.3	1.2	1.2	1.2	1.1	1.0	1.0	1.0	1.0	1.2	1.3

Alternative 8 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.7	-1.0	0.6	0.3	0.4	0.4	0.4	0.2	-1.1	-1.1	-1.0	-0.8
20%	-0.8	-0.6	0.6	0.6	0.5	0.3	0.4	0.1	-1.2	-1.0	-1.0	-0.9
30%	-0.7	-0.7	0.7	0.7	0.6	0.6	0.4	0.2	-1.1	-0.9	-0.9	-0.8
40%	-0.7	-0.7	0.7	0.7	0.6	0.6	0.4	0.2	-1.0	-0.8	-0.9	-0.8
50%	-0.7	-0.7	0.7	0.6	0.6	0.5	0.5	0.2	-0.8	-0.8	-0.9	-0.8
60%	-0.7	-0.7	0.7	0.7	0.6	0.5	0.4	0.2	-0.8	-0.8	-0.9	-0.8
70%	-0.7	-0.7	0.8	0.6	0.6	0.5	0.5	0.2	-0.8	-0.8	-0.9	-0.8
80%	-0.7	-0.7	0.7	0.7	0.6	0.6	0.5	0.3	-0.7	-0.8	-1.0	-0.9
90%	-0.7	-0.7	0.7	0.7	0.6	0.6	0.5	0.2	-0.8	-0.8	-0.9	-0.9
Long Term												
Full Simulation Period[a]	-0.8	-0.8	0.7	0.6	0.5	0.5	0.4	0.2	-0.8	-0.8	-1.0	-0.8
Water Year Types[b]												
Wet (31%)	-0.9	-0.9	0.5	0.5	0.5	0.5	0.4	0.3	-0.7	-0.8	-1.1	-0.9
Above Normal (25%)	-0.8	-0.6	0.7	0.4	0.4	0.5	0.4	0.1	-1.2	-1.1	-1.1	-0.7
Below Normal (6%)	-0.6	-0.7	0.8	0.6	0.6	0.5	0.4	0.1	-1.0	-0.9	-1.1	-0.8
Dry (13%)	-0.8	-0.7	0.8	0.7	0.7	0.6	0.5	0.2	-0.8	-0.7	-0.9	-0.9
Critical (25%)	-0.7	-0.7	0.6	0.6	0.5	0.5	0.5	0.2	-0.8	-0.8	-0.9	-0.8

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-27-2-25. Old River at Tracy Blvd, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.5	3.2	2.3	3.1	3.7	4.1	3.3	2.7	2.7	2.5	2.3	2.8
20%	2.3	2.1	0.8	1.5	2.5	3.1	2.1	1.7	2.5	2.3	2.2	2.5
30%	2.2	2.1	0.7	1.2	1.7	1.6	1.3	1.5	2.4	2.2	2.2	2.3
40%	2.2	2.1	0.7	0.9	1.2	1.4	1.0	1.1	2.2	2.0	2.1	2.2
50%	2.1	2.0	0.6	0.8	0.8	0.9	0.8	1.0	2.0	1.9	2.1	2.2
60%	2.1	1.9	0.6	0.6	0.7	0.8	0.7	0.9	1.9	1.8	2.1	2.1
70%	2.1	1.9	0.5	0.6	0.7	0.7	0.7	0.9	1.9	1.8	2.0	2.1
80%	2.0	1.9	0.4	0.5	0.7	0.5	0.6	0.8	1.8	1.8	2.0	2.1
90%	2.0	1.9	0.3	0.5	0.6	0.4	0.4	0.8	1.8	1.7	2.0	2.0
Long Term												
Full Simulation Period[a]	2.2	2.2	1.0	1.3	1.7	1.9	1.4	1.5	2.2	2.0	2.2	2.3
Water Year Types[b]												
Wet (31%)	2.6	3.0	2.5	2.5	3.5	4.6	3.0	2.6	2.8	2.4	2.4	2.9
Above Normal (25%)	2.1	1.9	0.7	2.4	3.1	2.5	1.9	2.1	2.6	2.4	2.2	2.3
Below Normal (6%)	2.1	2.1	0.3	1.1	1.2	1.4	1.2	1.4	2.2	1.8	2.1	2.0
Dry (13%)	2.2	2.0	0.5	0.6	0.6	0.7	0.7	0.9	1.9	1.8	2.0	2.1
Critical (25%)	2.1	2.0	0.6	0.6	0.7	0.6	0.6	0.8	1.8	1.8	2.1	2.1

Alternative 9 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.5	2.5	3.1	3.7	4.4	4.6	3.8	3.3	2.3	2.2	2.1	2.7
20%	2.2	2.1	1.9	2.7	3.3	3.2	2.9	3.1	2.1	2.0	2.0	2.3
30%	2.0	1.9	1.8	2.6	3.2	3.1	2.8	2.7	2.0	1.9	1.9	2.1
40%	2.0	1.9	1.8	2.1	2.7	3.0	2.5	2.3	1.7	1.8	1.8	2.0
50%	1.9	1.8	1.8	1.9	1.9	2.0	2.0	1.9	1.5	1.6	1.8	1.9
60%	1.9	1.8	1.7	1.8	1.9	1.9	1.7	1.7	1.4	1.6	1.7	1.8
70%	1.9	1.7	1.7	1.7	1.8	1.7	1.6	1.6	1.4	1.6	1.7	1.8
80%	1.7	1.6	1.7	1.7	1.7	1.5	1.5	1.5	1.4	1.5	1.6	1.8
90%	1.6	1.5	1.5	1.6	1.6	1.4	1.4	1.4	1.3	1.4	1.6	1.7
Long Term												
Full Simulation Period[a]	2.0	1.9	2.1	2.4	2.8	2.9	2.4	2.3	1.8	1.8	1.9	2.1
Water Year Types[b]												
Wet (31%)	2.3	2.4	3.3	3.4	4.5	5.4	3.8	3.5	2.5	2.2	2.2	2.8
Above Normal (25%)	1.8	1.7	1.8	3.5	4.0	3.4	2.9	2.9	2.2	2.1	2.0	2.1
Below Normal (6%)	2.0	2.0	1.7	2.6	2.7	3.0	2.7	2.7	1.7	1.6	1.7	1.8
Dry (13%)	2.0	1.8	1.7	1.8	1.8	1.8	1.7	1.7	1.4	1.6	1.7	1.9
Critical (25%)	1.8	1.7	1.7	1.7	1.7	1.5	1.5	1.5	1.3	1.5	1.7	1.8

Alternative 9 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.0	-0.7	0.7	0.7	0.8	0.5	0.5	0.6	-0.4	-0.3	-0.2	-0.1
20%	-0.1	-0.1	1.1	1.3	0.8	0.2	0.8	1.4	-0.4	-0.3	-0.3	-0.3
30%	-0.2	-0.2	1.1	1.5	1.4	1.5	1.5	1.2	-0.5	-0.3	-0.2	-0.2
40%	-0.2	-0.2	1.1	1.2	1.5	1.7	1.5	1.1	-0.5	-0.2	-0.3	-0.2
50%	-0.2	-0.2	1.2	1.1	1.1	1.0	1.1	0.8	-0.5	-0.3	-0.3	-0.2
60%	-0.2	-0.1	1.1	1.1	1.1	1.1	1.0	0.8	-0.5	-0.2	-0.3	-0.3
70%	-0.2	-0.2	1.2	1.1	1.1	1.0	0.9	0.8	-0.5	-0.3	-0.3	-0.3
80%	-0.3	-0.3	1.2	1.1	1.0	1.0	0.9	0.7	-0.4	-0.3	-0.4	-0.3
90%	-0.4	-0.3	1.2	1.1	1.0	1.0	0.9	0.7	-0.5	-0.3	-0.3	-0.3
Long Term												
Full Simulation Period[a]	-0.3	-0.3	1.1	1.1	1.0	1.0	1.0	0.8	-0.4	-0.3	-0.3	-0.2
Water Year Types[b]												
Wet (31%)	-0.3	-0.6	0.8	0.9	1.0	0.8	0.8	0.9	-0.2	-0.2	-0.2	-0.1
Above Normal (25%)	-0.3	-0.2	1.1	1.1	0.9	0.9	1.0	0.9	-0.4	-0.3	-0.2	-0.2
Below Normal (6%)	-0.1	-0.2	1.4	1.5	1.5	1.6	1.5	1.4	-0.5	-0.3	-0.3	-0.2
Dry (13%)	-0.2	-0.2	1.3	1.2	1.2	1.1	1.1	0.8	-0.5	-0.2	-0.2	-0.3
Critical (25%)	-0.3	-0.3	1.1	1.0	1.0	0.9	0.9	0.7	-0.5	-0.3	-0.4	-0.3

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

C.28. Mokelumne River at Terminous Water Surface Elevation

Table C-28-1-1. Mokelumne River at Terminous, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.3	3.7	3.9	4.0	4.3	3.9	3.6	3.5	3.6	3.7	3.7	3.7
20%	3.1	3.3	3.5	3.8	3.9	3.6	3.2	3.2	3.5	3.6	3.5	3.4
30%	3.1	3.2	3.4	3.5	3.5	3.3	3.0	3.2	3.4	3.6	3.5	3.4
40%	3.1	3.2	3.3	3.4	3.3	3.2	2.9	3.1	3.4	3.6	3.5	3.3
50%	3.1	3.1	3.3	3.3	3.2	3.1	2.9	3.1	3.3	3.6	3.5	3.3
60%	3.0	3.0	3.2	3.2	3.1	3.1	2.9	3.0	3.3	3.5	3.4	3.3
70%	3.0	3.0	3.1	3.2	3.0	2.9	2.8	3.0	3.2	3.5	3.3	3.2
80%	3.0	3.0	3.1	3.1	3.0	2.8	2.8	3.0	3.2	3.5	3.3	3.1
90%	2.9	2.9	2.9	3.0	2.9	2.7	2.7	2.9	3.1	3.4	3.2	3.1
Long Term												
Full Simulation Period[a]	3.1	3.2	3.4	3.4	3.4	3.2	3.0	3.2	3.4	3.6	3.5	3.3
Water Year Types[b]												
Wet (31%)	3.2	3.6	3.9	3.9	4.0	3.9	3.4	3.5	3.7	3.8	3.7	3.7
Above Normal (25%)	2.9	2.9	3.2	4.0	4.1	3.5	3.1	3.2	3.2	3.4	3.4	3.1
Below Normal (6%)	3.0	3.0	3.0	3.5	3.3	3.2	2.9	3.0	3.1	3.2	3.2	3.1
Dry (13%)	3.0	3.0	3.2	3.1	3.0	3.0	2.9	3.1	3.4	3.6	3.5	3.3
Critical (25%)	3.1	3.1	3.2	3.1	3.0	2.7	2.8	3.0	3.2	3.5	3.4	3.3

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.8	5.2	5.4	5.5	5.8	5.4	5.1	5.0	5.1	5.3	5.2	5.2
20%	4.7	4.8	5.1	5.4	5.5	5.2	4.7	4.7	5.0	5.2	5.1	5.0
30%	4.6	4.8	4.9	5.1	5.0	4.8	4.6	4.7	5.0	5.2	5.1	4.9
40%	4.6	4.7	4.8	4.9	4.8	4.7	4.5	4.7	4.9	5.1	5.0	4.9
50%	4.6	4.6	4.8	4.9	4.7	4.6	4.4	4.6	4.9	5.1	5.0	4.9
60%	4.6	4.6	4.7	4.8	4.6	4.6	4.4	4.6	4.8	5.1	4.9	4.9
70%	4.5	4.6	4.7	4.7	4.6	4.4	4.4	4.6	4.8	5.0	4.9	4.8
80%	4.5	4.5	4.6	4.7	4.5	4.3	4.3	4.5	4.7	5.0	4.8	4.7
90%	4.5	4.4	4.5	4.5	4.4	4.2	4.2	4.4	4.7	4.9	4.8	4.6
Long Term												
Full Simulation Period[a]	4.6	4.7	4.9	5.0	4.9	4.7	4.5	4.7	4.9	5.1	5.0	4.9
Water Year Types[b]												
Wet (31%)	4.8	5.1	5.4	5.4	5.6	5.4	4.9	5.0	5.1	5.3	5.2	5.2
Above Normal (25%)	4.5	4.5	4.8	5.5	5.6	5.0	4.6	4.7	4.7	5.0	4.9	4.7
Below Normal (6%)	4.5	4.6	4.5	5.0	4.8	4.7	4.4	4.5	4.7	4.8	4.8	4.7
Dry (13%)	4.6	4.6	4.7	4.7	4.5	4.5	4.4	4.6	4.9	5.1	5.0	4.8
Critical (25%)	4.6	4.7	4.8	4.7	4.5	4.3	4.3	4.5	4.8	5.1	4.9	4.8

No Action Alternative (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.5	1.5
20%	1.6	1.5	1.5	1.6	1.6	1.5	1.5	1.5	1.6	1.6	1.5	1.6
30%	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.5	1.5
40%	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
50%	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.5	1.5
60%	1.5	1.6	1.5	1.5	1.5	1.5	1.5	1.6	1.5	1.5	1.5	1.6
70%	1.6	1.6	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.5	1.6
80%	1.5	1.5	1.5	1.6	1.5	1.5	1.5	1.5	1.6	1.6	1.5	1.5
90%	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6
Long Term												
Full Simulation Period[a]	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Water Year Types[b]												
Wet (31%)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6
Above Normal (25%)	1.5	1.5	1.6	1.6	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.6
Below Normal (6%)	1.6	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.5	1.6	1.5
Dry (13%)	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.5	1.5
Critical (25%)	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.5	1.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

Table C-28-1-2. Mokelumne River at Terminous, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.3	3.7	3.9	4.0	4.3	3.9	3.6	3.5	3.6	3.7	3.7	3.7
20%	3.1	3.3	3.5	3.8	3.9	3.6	3.2	3.2	3.5	3.6	3.5	3.4
30%	3.1	3.2	3.4	3.5	3.5	3.3	3.0	3.2	3.4	3.6	3.5	3.4
40%	3.1	3.2	3.3	3.4	3.3	3.2	2.9	3.1	3.4	3.6	3.5	3.3
50%	3.1	3.1	3.3	3.3	3.2	3.1	2.9	3.1	3.3	3.6	3.5	3.3
60%	3.0	3.0	3.2	3.2	3.1	3.1	2.9	3.0	3.3	3.5	3.4	3.3
70%	3.0	3.0	3.1	3.2	3.0	2.9	2.8	3.0	3.2	3.5	3.3	3.2
80%	3.0	3.0	3.1	3.1	3.0	2.8	2.8	3.0	3.2	3.5	3.3	3.1
90%	2.9	2.9	2.9	3.0	2.9	2.7	2.7	2.9	3.1	3.4	3.2	3.1
Long Term												
Full Simulation Period[a]	3.1	3.2	3.4	3.4	3.4	3.2	3.0	3.2	3.4	3.6	3.5	3.3
Water Year Types[b]												
Wet (31%)	3.2	3.6	3.9	3.9	4.0	3.9	3.4	3.5	3.7	3.8	3.7	3.7
Above Normal (25%)	2.9	2.9	3.2	4.0	4.1	3.5	3.1	3.2	3.2	3.4	3.4	3.1
Below Normal (6%)	3.0	3.0	3.0	3.5	3.3	3.2	2.9	3.0	3.1	3.2	3.2	3.1
Dry (13%)	3.0	3.0	3.2	3.1	3.0	3.0	2.9	3.1	3.4	3.6	3.5	3.3
Critical (25%)	3.1	3.1	3.2	3.1	3.0	2.7	2.8	3.0	3.2	3.5	3.4	3.3

Alternative 1A,1B,1C (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	4.7	5.0	5.0	5.4	5.0	4.7	4.5	4.6	4.8	4.7	4.7
20%	4.3	4.4	4.6	4.9	5.0	4.7	4.3	4.3	4.5	4.7	4.6	4.5
30%	4.3	4.3	4.5	4.6	4.6	4.4	4.2	4.3	4.5	4.7	4.6	4.5
40%	4.2	4.3	4.4	4.5	4.4	4.3	4.1	4.2	4.4	4.6	4.6	4.5
50%	4.2	4.2	4.4	4.4	4.3	4.2	4.0	4.2	4.4	4.6	4.5	4.4
60%	4.2	4.2	4.3	4.3	4.2	4.2	4.0	4.1	4.4	4.6	4.5	4.4
70%	4.2	4.2	4.3	4.3	4.2	4.1	4.0	4.1	4.3	4.5	4.4	4.4
80%	4.1	4.1	4.2	4.3	4.1	4.0	3.9	4.1	4.3	4.5	4.4	4.3
90%	4.1	4.0	4.1	4.1	4.0	3.8	3.8	4.0	4.2	4.4	4.3	4.2
Long Term												
Full Simulation Period[a]	4.2	4.3	4.5	4.5	4.5	4.3	4.1	4.2	4.4	4.6	4.5	4.5
Water Year Types[b]												
Wet (31%)	4.4	4.7	4.9	4.9	5.1	5.0	4.5	4.5	4.7	4.8	4.7	4.7
Above Normal (25%)	4.1	4.1	4.3	5.0	5.2	4.6	4.2	4.2	4.3	4.5	4.5	4.3
Below Normal (6%)	4.2	4.2	4.1	4.6	4.4	4.3	4.0	4.1	4.2	4.3	4.3	4.2
Dry (13%)	4.2	4.2	4.3	4.3	4.1	4.1	4.0	4.2	4.5	4.6	4.5	4.4
Critical (25%)	4.2	4.2	4.3	4.3	4.1	3.9	3.9	4.1	4.3	4.6	4.5	4.4

Alternative 1A,1B,1C (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.2	1.0	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.1	1.1	1.0
20%	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.1	1.1	1.1	1.1
30%	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
40%	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.1	1.1
50%	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
60%	1.1	1.1	1.2	1.1	1.1	1.1	1.1	1.1	1.0	1.1	1.1	1.1
70%	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
80%	1.2	1.1	1.1	1.2	1.1	1.2	1.2	1.0	1.1	1.1	1.1	1.1
90%	1.2	1.2	1.1	1.1	1.1	1.2	1.1	1.1	1.1	1.1	1.1	1.1
Long Term												
Full Simulation Period[a]	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Water Year Types[b]												
Wet (31%)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.1
Above Normal (25%)	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.1	1.1	1.1
Below Normal (6%)	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.1	1.1	1.1	1.1
Dry (13%)	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Critical (25%)	1.2	1.1	1.1	1.1	1.1	1.2	1.1	1.1	1.1	1.1	1.1	1.1

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-28-1-3. Mokelumne River at Terminous, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.3	3.7	3.9	4.0	4.3	3.9	3.6	3.5	3.6	3.7	3.7	3.7
20%	3.1	3.3	3.5	3.8	3.9	3.6	3.2	3.2	3.5	3.6	3.5	3.4
30%	3.1	3.2	3.4	3.5	3.5	3.3	3.0	3.2	3.4	3.6	3.5	3.4
40%	3.1	3.2	3.3	3.4	3.3	3.2	2.9	3.1	3.4	3.6	3.5	3.3
50%	3.1	3.1	3.3	3.3	3.2	3.1	2.9	3.1	3.3	3.6	3.5	3.3
60%	3.0	3.0	3.2	3.2	3.1	3.1	2.9	3.0	3.3	3.5	3.4	3.3
70%	3.0	3.0	3.1	3.2	3.0	2.9	2.8	3.0	3.2	3.5	3.3	3.2
80%	3.0	3.0	3.1	3.1	3.0	2.8	2.8	3.0	3.2	3.5	3.3	3.1
90%	2.9	2.9	2.9	3.0	2.9	2.7	2.7	2.9	3.1	3.4	3.2	3.1
Long Term												
Full Simulation Period[a]	3.1	3.2	3.4	3.4	3.4	3.2	3.0	3.2	3.4	3.6	3.5	3.3
Water Year Types[b]												
Wet (31%)	3.2	3.6	3.9	3.9	4.0	3.9	3.4	3.5	3.7	3.8	3.7	3.7
Above Normal (25%)	2.9	2.9	3.2	4.0	4.1	3.5	3.1	3.2	3.2	3.4	3.4	3.1
Below Normal (6%)	3.0	3.0	3.0	3.5	3.3	3.2	2.9	3.0	3.1	3.2	3.2	3.1
Dry (13%)	3.0	3.0	3.2	3.1	3.0	3.0	2.9	3.1	3.4	3.6	3.5	3.3
Critical (25%)	3.1	3.1	3.2	3.1	3.0	2.7	2.8	3.0	3.2	3.5	3.4	3.3

Alternative 2A,2B,2C (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	4.7	5.0	5.0	5.4	5.0	4.7	4.6	4.6	4.8	4.7	4.8
20%	4.3	4.4	4.6	4.9	5.0	4.7	4.3	4.3	4.5	4.7	4.6	4.6
30%	4.3	4.4	4.5	4.6	4.6	4.4	4.2	4.3	4.5	4.7	4.6	4.5
40%	4.3	4.3	4.4	4.5	4.4	4.2	4.1	4.2	4.4	4.6	4.6	4.5
50%	4.2	4.3	4.4	4.4	4.3	4.2	4.0	4.2	4.4	4.6	4.6	4.5
60%	4.2	4.2	4.3	4.4	4.2	4.2	4.0	4.2	4.4	4.6	4.5	4.4
70%	4.2	4.2	4.3	4.3	4.2	4.1	4.0	4.1	4.3	4.6	4.4	4.4
80%	4.2	4.1	4.2	4.3	4.1	4.0	3.9	4.1	4.3	4.5	4.4	4.3
90%	4.1	4.0	4.1	4.2	4.0	3.8	3.8	4.0	4.2	4.4	4.4	4.2
Long Term												
Full Simulation Period[a]	4.3	4.3	4.5	4.6	4.5	4.3	4.1	4.3	4.4	4.6	4.6	4.5
Water Year Types[b]												
Wet (31%)	4.4	4.7	5.0	4.9	5.1	5.0	4.5	4.5	4.7	4.8	4.7	4.8
Above Normal (25%)	4.1	4.1	4.4	5.0	5.2	4.6	4.2	4.3	4.3	4.5	4.5	4.3
Below Normal (6%)	4.2	4.2	4.1	4.6	4.3	4.2	4.0	4.1	4.3	4.3	4.3	4.2
Dry (13%)	4.2	4.2	4.3	4.3	4.2	4.1	4.0	4.2	4.5	4.6	4.6	4.4
Critical (25%)	4.2	4.3	4.3	4.3	4.1	3.9	3.9	4.1	4.3	4.6	4.5	4.4

Alternative 2A,2B,2C (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2
20%	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2
30%	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
40%	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
50%	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
60%	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
70%	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2
80%	1.2	1.2	1.1	1.2	1.1	1.2	1.2	1.1	1.1	1.1	1.1	1.2
90%	1.2	1.2	1.1	1.1	1.1	1.2	1.1	1.1	1.1	1.1	1.1	1.2
Long Term												
Full Simulation Period[a]	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Water Year Types[b]												
Wet (31%)	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0	1.1	1.2
Above Normal (25%)	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2
Below Normal (6%)	1.2	1.2	1.1	1.1	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Dry (13%)	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Critical (25%)	1.2	1.1	1.1	1.1	1.1	1.2	1.2	1.1	1.1	1.1	1.1	1.1

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-28-1-4. Mokelumne River at Terminous, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.3	3.7	3.9	4.0	4.3	3.9	3.6	3.5	3.6	3.7	3.7	3.7
20%	3.1	3.3	3.5	3.8	3.9	3.6	3.2	3.2	3.5	3.6	3.5	3.4
30%	3.1	3.2	3.4	3.5	3.5	3.3	3.0	3.2	3.4	3.6	3.5	3.4
40%	3.1	3.2	3.3	3.4	3.3	3.2	2.9	3.1	3.4	3.6	3.5	3.3
50%	3.1	3.1	3.3	3.3	3.2	3.1	2.9	3.1	3.3	3.6	3.5	3.3
60%	3.0	3.0	3.2	3.2	3.1	3.1	2.9	3.0	3.3	3.5	3.4	3.3
70%	3.0	3.0	3.1	3.2	3.0	2.9	2.8	3.0	3.2	3.5	3.3	3.2
80%	3.0	3.0	3.1	3.1	3.0	2.8	2.8	3.0	3.2	3.5	3.3	3.1
90%	2.9	2.9	2.9	3.0	2.9	2.7	2.7	2.9	3.1	3.4	3.2	3.1
Long Term												
Full Simulation Period[a]	3.1	3.2	3.4	3.4	3.4	3.2	3.0	3.2	3.4	3.6	3.5	3.3
Water Year Types[b]												
Wet (31%)	3.2	3.6	3.9	3.9	4.0	3.9	3.4	3.5	3.7	3.8	3.7	3.7
Above Normal (25%)	2.9	2.9	3.2	4.0	4.1	3.5	3.1	3.2	3.2	3.4	3.4	3.1
Below Normal (6%)	3.0	3.0	3.0	3.5	3.3	3.2	2.9	3.0	3.1	3.2	3.2	3.1
Dry (13%)	3.0	3.0	3.2	3.1	3.0	3.0	2.9	3.1	3.4	3.6	3.5	3.3
Critical (25%)	3.1	3.1	3.2	3.1	3.0	2.7	2.8	3.0	3.2	3.5	3.4	3.3

Alternative 3 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	4.7	5.0	5.0	5.4	5.0	4.7	4.5	4.6	4.8	4.7	4.7
20%	4.3	4.4	4.6	4.9	5.0	4.7	4.3	4.3	4.5	4.7	4.6	4.5
30%	4.3	4.3	4.5	4.6	4.6	4.4	4.2	4.3	4.5	4.7	4.6	4.5
40%	4.2	4.3	4.4	4.5	4.4	4.3	4.1	4.2	4.4	4.6	4.6	4.5
50%	4.2	4.2	4.4	4.4	4.3	4.2	4.0	4.2	4.4	4.6	4.5	4.4
60%	4.2	4.2	4.3	4.3	4.2	4.2	4.0	4.1	4.4	4.6	4.5	4.4
70%	4.2	4.1	4.3	4.3	4.2	4.1	4.0	4.1	4.3	4.5	4.4	4.3
80%	4.1	4.1	4.2	4.3	4.1	4.0	3.9	4.1	4.3	4.5	4.4	4.3
90%	4.1	4.0	4.1	4.2	4.0	3.8	3.8	4.0	4.2	4.4	4.3	4.2
Long Term												
Full Simulation Period[a]	4.2	4.3	4.5	4.5	4.5	4.3	4.1	4.2	4.4	4.6	4.5	4.4
Water Year Types[b]												
Wet (31%)	4.4	4.7	4.9	4.9	5.1	5.0	4.5	4.5	4.7	4.8	4.7	4.7
Above Normal (25%)	4.1	4.1	4.3	5.0	5.2	4.6	4.2	4.2	4.3	4.5	4.5	4.2
Below Normal (6%)	4.2	4.2	4.1	4.6	4.4	4.3	4.0	4.1	4.2	4.3	4.3	4.2
Dry (13%)	4.2	4.2	4.3	4.3	4.1	4.1	4.0	4.2	4.5	4.6	4.5	4.4
Critical (25%)	4.2	4.2	4.3	4.3	4.1	3.9	3.9	4.1	4.3	4.6	4.5	4.4

Alternative 3 (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.2	1.0	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.1	1.1	1.0
20%	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.1	1.1	1.1	1.1
30%	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
40%	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.1	1.1
50%	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
60%	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.1	1.1	1.1
70%	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
80%	1.2	1.1	1.1	1.2	1.1	1.2	1.2	1.0	1.1	1.1	1.1	1.1
90%	1.2	1.2	1.1	1.2	1.1	1.2	1.1	1.1	1.1	1.1	1.1	1.1
Long Term												
Full Simulation Period[a]	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Water Year Types[b]												
Wet (31%)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.0
Above Normal (25%)	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.1	1.1	1.1
Below Normal (6%)	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.1	1.1	1.1	1.1
Dry (13%)	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Critical (25%)	1.2	1.1	1.1	1.1	1.1	1.2	1.2	1.1	1.1	1.1	1.1	1.1

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-28-1-5. Mokelumne River at Terminous, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.3	3.7	3.9	4.0	4.3	3.9	3.6	3.5	3.6	3.7	3.7	3.7
20%	3.1	3.3	3.5	3.8	3.9	3.6	3.2	3.2	3.5	3.6	3.5	3.4
30%	3.1	3.2	3.4	3.5	3.5	3.3	3.0	3.2	3.4	3.6	3.5	3.4
40%	3.1	3.2	3.3	3.4	3.3	3.2	2.9	3.1	3.4	3.6	3.5	3.3
50%	3.1	3.1	3.3	3.3	3.2	3.1	2.9	3.1	3.3	3.6	3.5	3.3
60%	3.0	3.0	3.2	3.2	3.1	3.1	2.9	3.0	3.3	3.5	3.4	3.3
70%	3.0	3.0	3.1	3.2	3.0	2.9	2.8	3.0	3.2	3.5	3.3	3.2
80%	3.0	3.0	3.1	3.1	3.0	2.8	2.8	3.0	3.2	3.5	3.3	3.1
90%	2.9	2.9	2.9	3.0	2.9	2.7	2.7	2.9	3.1	3.4	3.2	3.1
Long Term												
Full Simulation Period[a]	3.1	3.2	3.4	3.4	3.4	3.2	3.0	3.2	3.4	3.6	3.5	3.3
Water Year Types[b]												
Wet (31%)	3.2	3.6	3.9	3.9	4.0	3.9	3.4	3.5	3.7	3.8	3.7	3.7
Above Normal (25%)	2.9	2.9	3.2	4.0	4.1	3.5	3.1	3.2	3.2	3.4	3.4	3.1
Below Normal (6%)	3.0	3.0	3.0	3.5	3.3	3.2	2.9	3.0	3.1	3.2	3.2	3.1
Dry (13%)	3.0	3.0	3.2	3.1	3.0	3.0	2.9	3.1	3.4	3.6	3.5	3.3
Critical (25%)	3.1	3.1	3.2	3.1	3.0	2.7	2.8	3.0	3.2	3.5	3.4	3.3

Alternative 4 H1 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	4.7	5.0	5.0	5.4	5.0	4.7	4.6	4.6	4.8	4.7	4.7
20%	4.3	4.4	4.6	4.9	5.0	4.8	4.3	4.3	4.6	4.7	4.6	4.5
30%	4.3	4.4	4.5	4.6	4.6	4.4	4.2	4.3	4.5	4.7	4.6	4.5
40%	4.3	4.3	4.4	4.5	4.4	4.3	4.1	4.2	4.5	4.6	4.6	4.5
50%	4.2	4.2	4.4	4.4	4.3	4.2	4.0	4.2	4.4	4.6	4.6	4.5
60%	4.2	4.2	4.3	4.4	4.2	4.2	4.0	4.2	4.4	4.6	4.5	4.4
70%	4.2	4.2	4.3	4.3	4.2	4.1	4.0	4.1	4.3	4.6	4.4	4.4
80%	4.1	4.1	4.2	4.3	4.1	4.0	3.9	4.1	4.3	4.5	4.4	4.3
90%	4.1	4.0	4.1	4.2	4.0	3.8	3.8	4.0	4.3	4.4	4.4	4.2
Long Term												
Full Simulation Period[a]	4.2	4.3	4.5	4.6	4.5	4.3	4.1	4.3	4.4	4.6	4.6	4.5
Water Year Types[b]												
Wet (31%)	4.4	4.7	5.0	4.9	5.1	5.0	4.5	4.5	4.7	4.8	4.7	4.7
Above Normal (25%)	4.1	4.1	4.4	5.0	5.2	4.6	4.2	4.3	4.3	4.5	4.5	4.3
Below Normal (6%)	4.2	4.2	4.1	4.6	4.4	4.3	4.0	4.1	4.2	4.3	4.3	4.3
Dry (13%)	4.2	4.2	4.3	4.3	4.2	4.1	4.0	4.2	4.5	4.6	4.6	4.4
Critical (25%)	4.2	4.2	4.3	4.3	4.1	3.9	3.9	4.1	4.3	4.6	4.5	4.4

Alternative 4 H1 (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.1	1.1	1.1
20%	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
30%	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
40%	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
50%	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
60%	1.2	1.1	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
70%	1.2	1.1	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
80%	1.2	1.1	1.1	1.2	1.1	1.2	1.2	1.1	1.1	1.1	1.1	1.2
90%	1.2	1.2	1.1	1.2	1.1	1.2	1.1	1.1	1.1	1.1	1.1	1.1
Long Term												
Full Simulation Period[a]	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Water Year Types[b]												
Wet (31%)	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0	1.1	1.1
Above Normal (25%)	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Below Normal (6%)	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Dry (13%)	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Critical (25%)	1.2	1.1	1.1	1.1	1.1	1.2	1.2	1.1	1.1	1.1	1.1	1.1

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-28-1-6. Mokelumne River at Terminous, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.3	3.7	3.9	4.0	4.3	3.9	3.6	3.5	3.6	3.7	3.7	3.7
20%	3.1	3.3	3.5	3.8	3.9	3.6	3.2	3.2	3.5	3.6	3.5	3.4
30%	3.1	3.2	3.4	3.5	3.5	3.3	3.0	3.2	3.4	3.6	3.5	3.4
40%	3.1	3.2	3.3	3.4	3.3	3.2	2.9	3.1	3.4	3.6	3.5	3.3
50%	3.1	3.1	3.3	3.3	3.2	3.1	2.9	3.1	3.3	3.6	3.5	3.3
60%	3.0	3.0	3.2	3.2	3.1	3.1	2.9	3.0	3.3	3.5	3.4	3.3
70%	3.0	3.0	3.1	3.2	3.0	2.9	2.8	3.0	3.2	3.5	3.3	3.2
80%	3.0	3.0	3.1	3.1	3.0	2.8	2.8	3.0	3.2	3.5	3.3	3.1
90%	2.9	2.9	2.9	3.0	2.9	2.7	2.7	2.9	3.1	3.4	3.2	3.1
Long Term												
Full Simulation Period[a]	3.1	3.2	3.4	3.4	3.4	3.2	3.0	3.2	3.4	3.6	3.5	3.3
Water Year Types[b]												
Wet (31%)	3.2	3.6	3.9	3.9	4.0	3.9	3.4	3.5	3.7	3.8	3.7	3.7
Above Normal (25%)	2.9	2.9	3.2	4.0	4.1	3.5	3.1	3.2	3.2	3.4	3.4	3.1
Below Normal (6%)	3.0	3.0	3.0	3.5	3.3	3.2	2.9	3.0	3.1	3.2	3.2	3.1
Dry (13%)	3.0	3.0	3.2	3.1	3.0	3.0	2.9	3.1	3.4	3.6	3.5	3.3
Critical (25%)	3.1	3.1	3.2	3.1	3.0	2.7	2.8	3.0	3.2	3.5	3.4	3.3

Alternative 4 H2 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	4.8	5.0	5.0	5.4	5.0	4.7	4.6	4.6	4.8	4.7	4.7
20%	4.3	4.4	4.6	4.9	5.1	4.8	4.3	4.3	4.6	4.7	4.6	4.5
30%	4.3	4.4	4.5	4.6	4.6	4.4	4.2	4.3	4.5	4.7	4.6	4.5
40%	4.3	4.3	4.4	4.5	4.4	4.3	4.1	4.3	4.5	4.7	4.6	4.5
50%	4.2	4.3	4.4	4.4	4.3	4.2	4.0	4.2	4.4	4.6	4.6	4.5
60%	4.2	4.2	4.3	4.4	4.2	4.2	4.0	4.2	4.4	4.6	4.5	4.4
70%	4.2	4.2	4.3	4.3	4.2	4.1	4.0	4.1	4.3	4.6	4.4	4.4
80%	4.1	4.1	4.2	4.3	4.1	4.0	4.0	4.1	4.3	4.5	4.4	4.3
90%	4.1	4.0	4.1	4.2	4.0	3.8	3.8	4.0	4.2	4.4	4.4	4.2
Long Term												
Full Simulation Period[a]	4.2	4.3	4.5	4.6	4.5	4.4	4.1	4.3	4.4	4.6	4.6	4.5
Water Year Types[b]												
Wet (31%)	4.4	4.7	5.0	4.9	5.1	5.0	4.5	4.5	4.7	4.8	4.7	4.8
Above Normal (25%)	4.1	4.1	4.4	5.0	5.2	4.6	4.3	4.3	4.3	4.5	4.5	4.3
Below Normal (6%)	4.1	4.2	4.1	4.6	4.4	4.3	4.0	4.1	4.2	4.3	4.3	4.3
Dry (13%)	4.2	4.2	4.3	4.3	4.2	4.1	4.0	4.2	4.5	4.6	4.6	4.4
Critical (25%)	4.2	4.2	4.3	4.3	4.1	3.9	3.9	4.1	4.3	4.6	4.5	4.4

Alternative 4 H2 (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.1	1.1	1.1
20%	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
30%	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
40%	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
50%	1.2	1.1	1.1	1.1	1.1	1.1	1.2	1.1	1.1	1.1	1.1	1.1
60%	1.2	1.1	1.2	1.1	1.1	1.1	1.1	1.2	1.1	1.1	1.1	1.1
70%	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
80%	1.2	1.1	1.1	1.2	1.1	1.2	1.2	1.1	1.1	1.1	1.1	1.2
90%	1.2	1.2	1.1	1.2	1.1	1.2	1.2	1.1	1.1	1.1	1.1	1.1
Long Term												
Full Simulation Period[a]	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Water Year Types[b]												
Wet (31%)	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0	1.1	1.1
Above Normal (25%)	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Below Normal (6%)	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Dry (13%)	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Critical (25%)	1.2	1.1	1.1	1.1	1.1	1.2	1.2	1.1	1.1	1.1	1.1	1.1

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-28-1-7. Mokelumne River at Terminous, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.3	3.7	3.9	4.0	4.3	3.9	3.6	3.5	3.6	3.7	3.7	3.7
20%	3.1	3.3	3.5	3.8	3.9	3.6	3.2	3.2	3.5	3.6	3.5	3.4
30%	3.1	3.2	3.4	3.5	3.5	3.3	3.0	3.2	3.4	3.6	3.5	3.4
40%	3.1	3.2	3.3	3.4	3.3	3.2	2.9	3.1	3.4	3.6	3.5	3.3
50%	3.1	3.1	3.3	3.3	3.2	3.1	2.9	3.1	3.3	3.6	3.5	3.3
60%	3.0	3.0	3.2	3.2	3.1	3.1	2.9	3.0	3.3	3.5	3.4	3.3
70%	3.0	3.0	3.1	3.2	3.0	2.9	2.8	3.0	3.2	3.5	3.3	3.2
80%	3.0	3.0	3.1	3.1	3.0	2.8	2.8	3.0	3.2	3.5	3.3	3.1
90%	2.9	2.9	2.9	3.0	2.9	2.7	2.7	2.9	3.1	3.4	3.2	3.1
Long Term												
Full Simulation Period[a]	3.1	3.2	3.4	3.4	3.4	3.2	3.0	3.2	3.4	3.6	3.5	3.3
Water Year Types[b]												
Wet (31%)	3.2	3.6	3.9	3.9	4.0	3.9	3.4	3.5	3.7	3.8	3.7	3.7
Above Normal (25%)	2.9	2.9	3.2	4.0	4.1	3.5	3.1	3.2	3.2	3.4	3.4	3.1
Below Normal (6%)	3.0	3.0	3.0	3.5	3.3	3.2	2.9	3.0	3.1	3.2	3.2	3.1
Dry (13%)	3.0	3.0	3.2	3.1	3.0	3.0	2.9	3.1	3.4	3.6	3.5	3.3
Critical (25%)	3.1	3.1	3.2	3.1	3.0	2.7	2.8	3.0	3.2	3.5	3.4	3.3

Alternative 4 H3 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	4.7	5.0	5.0	5.4	5.0	4.7	4.6	4.6	4.8	4.7	4.8
20%	4.3	4.4	4.6	4.9	5.0	4.8	4.3	4.3	4.6	4.7	4.6	4.6
30%	4.3	4.4	4.5	4.6	4.6	4.4	4.2	4.3	4.5	4.7	4.6	4.5
40%	4.3	4.3	4.4	4.5	4.4	4.3	4.1	4.2	4.4	4.6	4.6	4.5
50%	4.2	4.2	4.4	4.4	4.3	4.2	4.0	4.2	4.4	4.6	4.6	4.5
60%	4.2	4.2	4.3	4.4	4.2	4.2	4.0	4.2	4.4	4.6	4.5	4.4
70%	4.2	4.2	4.3	4.3	4.2	4.1	4.0	4.1	4.3	4.6	4.4	4.4
80%	4.1	4.1	4.2	4.3	4.1	4.0	3.9	4.1	4.3	4.5	4.4	4.3
90%	4.1	4.0	4.1	4.2	4.0	3.8	3.8	4.0	4.2	4.4	4.4	4.2
Long Term												
Full Simulation Period[a]	4.3	4.3	4.5	4.6	4.5	4.3	4.1	4.3	4.4	4.6	4.6	4.5
Water Year Types[b]												
Wet (31%)	4.4	4.7	5.0	4.9	5.1	5.0	4.5	4.5	4.7	4.8	4.7	4.8
Above Normal (25%)	4.1	4.1	4.4	5.0	5.2	4.6	4.2	4.3	4.3	4.5	4.5	4.3
Below Normal (6%)	4.1	4.2	4.1	4.6	4.4	4.3	4.0	4.1	4.3	4.3	4.3	4.2
Dry (13%)	4.2	4.2	4.3	4.3	4.2	4.1	4.0	4.2	4.5	4.6	4.6	4.4
Critical (25%)	4.2	4.3	4.3	4.3	4.1	3.9	3.9	4.1	4.3	4.6	4.5	4.4

Alternative 4 H3 (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.1	1.1	1.2
20%	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2
30%	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
40%	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
50%	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
60%	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
70%	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2
80%	1.2	1.2	1.1	1.2	1.1	1.2	1.2	1.1	1.1	1.1	1.1	1.2
90%	1.2	1.2	1.1	1.1	1.1	1.2	1.1	1.1	1.1	1.1	1.1	1.2
Long Term												
Full Simulation Period[a]	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Water Year Types[b]												
Wet (31%)	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0	1.1	1.2
Above Normal (25%)	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2
Below Normal (6%)	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Dry (13%)	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Critical (25%)	1.2	1.1	1.1	1.1	1.1	1.2	1.2	1.1	1.1	1.1	1.1	1.1

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-28-1-8. Mokelumne River at Terminous, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	3.3	3.7	3.9	4.0	4.3	3.9	3.6	3.5	3.6	3.7	3.7	3.7
20%	3.1	3.3	3.5	3.8	3.9	3.6	3.2	3.2	3.5	3.6	3.5	3.4
30%	3.1	3.2	3.4	3.5	3.5	3.3	3.0	3.2	3.4	3.6	3.5	3.4
40%	3.1	3.2	3.3	3.4	3.3	3.2	2.9	3.1	3.4	3.6	3.5	3.3
50%	3.1	3.1	3.3	3.3	3.2	3.1	2.9	3.1	3.3	3.6	3.5	3.3
60%	3.0	3.0	3.2	3.2	3.1	3.1	2.9	3.0	3.3	3.5	3.4	3.3
70%	3.0	3.0	3.1	3.2	3.0	2.9	2.8	3.0	3.2	3.5	3.3	3.2
80%	3.0	3.0	3.1	3.1	3.0	2.8	2.8	3.0	3.2	3.5	3.3	3.1
90%	2.9	2.9	2.9	3.0	2.9	2.7	2.7	2.9	3.1	3.4	3.2	3.1
Long Term												
Full Simulation Period[a]	3.1	3.2	3.4	3.4	3.4	3.2	3.0	3.2	3.4	3.6	3.5	3.3
Water Year Types[b]												
Wet (31%)	3.2	3.6	3.9	3.9	4.0	3.9	3.4	3.5	3.7	3.8	3.7	3.7
Above Normal (25%)	2.9	2.9	3.2	4.0	4.1	3.5	3.1	3.2	3.2	3.4	3.4	3.1
Below Normal (6%)	3.0	3.0	3.0	3.5	3.3	3.2	2.9	3.0	3.1	3.2	3.2	3.1
Dry (13%)	3.0	3.0	3.2	3.1	3.0	3.0	2.9	3.1	3.4	3.6	3.5	3.3
Critical (25%)	3.1	3.1	3.2	3.1	3.0	2.7	2.8	3.0	3.2	3.5	3.4	3.3

Alternative 4 H4 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	4.4	4.7	5.0	5.0	5.4	5.0	4.7	4.6	4.6	4.8	4.7	4.8
20%	4.3	4.4	4.6	4.9	5.1	4.8	4.3	4.3	4.5	4.7	4.6	4.6
30%	4.3	4.4	4.5	4.6	4.6	4.4	4.2	4.3	4.5	4.7	4.6	4.5
40%	4.3	4.3	4.4	4.5	4.4	4.3	4.1	4.3	4.5	4.7	4.6	4.5
50%	4.2	4.2	4.4	4.4	4.3	4.2	4.0	4.2	4.4	4.6	4.6	4.5
60%	4.2	4.2	4.3	4.4	4.2	4.2	4.0	4.2	4.4	4.6	4.5	4.4
70%	4.2	4.2	4.3	4.3	4.2	4.1	4.0	4.1	4.3	4.6	4.4	4.4
80%	4.1	4.1	4.2	4.3	4.1	4.0	4.0	4.1	4.3	4.5	4.4	4.3
90%	4.1	4.0	4.1	4.2	4.0	3.8	3.8	4.0	4.2	4.4	4.4	4.2
Long Term												
Full Simulation Period[a]	4.3	4.3	4.5	4.6	4.5	4.4	4.1	4.3	4.4	4.6	4.6	4.5
Water Year Types[b]												
Wet (31%)	4.4	4.7	4.9	4.9	5.1	5.0	4.5	4.5	4.7	4.8	4.7	4.8
Above Normal (25%)	4.1	4.1	4.4	5.0	5.2	4.6	4.3	4.3	4.3	4.5	4.5	4.3
Below Normal (6%)	4.1	4.2	4.1	4.6	4.4	4.3	4.0	4.1	4.3	4.3	4.3	4.3
Dry (13%)	4.2	4.2	4.3	4.3	4.2	4.1	4.0	4.2	4.5	4.6	4.6	4.4
Critical (25%)	4.2	4.3	4.3	4.3	4.1	3.9	3.9	4.1	4.3	4.6	4.5	4.4

Alternative 4 H4 (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.1	1.1	1.2
20%	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2
30%	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
40%	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
50%	1.2	1.1	1.1	1.1	1.1	1.1	1.2	1.1	1.1	1.1	1.1	1.1
60%	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.2	1.1	1.1	1.1	1.1
70%	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2
80%	1.2	1.2	1.1	1.2	1.1	1.2	1.2	1.1	1.1	1.1	1.1	1.2
90%	1.2	1.2	1.1	1.1	1.1	1.2	1.2	1.1	1.1	1.1	1.1	1.2
Long Term												
Full Simulation Period[a]	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Water Year Types[b]												
Wet (31%)	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0	1.1	1.2
Above Normal (25%)	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2
Below Normal (6%)	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Dry (13%)	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Critical (25%)	1.2	1.1	1.1	1.1	1.1	1.2	1.2	1.1	1.1	1.1	1.1	1.1

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-28-1-9. Mokelumne River at Terminous, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.3	3.7	3.9	4.0	4.3	3.9	3.6	3.5	3.6	3.7	3.7	3.7
20%	3.1	3.3	3.5	3.8	3.9	3.6	3.2	3.2	3.5	3.6	3.5	3.4
30%	3.1	3.2	3.4	3.5	3.5	3.3	3.0	3.2	3.4	3.6	3.5	3.4
40%	3.1	3.2	3.3	3.4	3.3	3.2	2.9	3.1	3.4	3.6	3.5	3.3
50%	3.1	3.1	3.3	3.3	3.2	3.1	2.9	3.1	3.3	3.6	3.5	3.3
60%	3.0	3.0	3.2	3.2	3.1	3.1	2.9	3.0	3.3	3.5	3.4	3.3
70%	3.0	3.0	3.1	3.2	3.0	2.9	2.8	3.0	3.2	3.5	3.3	3.2
80%	3.0	3.0	3.1	3.1	3.0	2.8	2.8	3.0	3.2	3.5	3.3	3.1
90%	2.9	2.9	2.9	3.0	2.9	2.7	2.7	2.9	3.1	3.4	3.2	3.1
Long Term												
Full Simulation Period[a]	3.1	3.2	3.4	3.4	3.4	3.2	3.0	3.2	3.4	3.6	3.5	3.3
Water Year Types[b]												
Wet (31%)	3.2	3.6	3.9	3.9	4.0	3.9	3.4	3.5	3.7	3.8	3.7	3.7
Above Normal (25%)	2.9	2.9	3.2	4.0	4.1	3.5	3.1	3.2	3.2	3.4	3.4	3.1
Below Normal (6%)	3.0	3.0	3.0	3.5	3.3	3.2	2.9	3.0	3.1	3.2	3.2	3.1
Dry (13%)	3.0	3.0	3.2	3.1	3.0	3.0	2.9	3.1	3.4	3.6	3.5	3.3
Critical (25%)	3.1	3.1	3.2	3.1	3.0	2.7	2.8	3.0	3.2	3.5	3.4	3.3

Alternative 5 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	4.7	5.0	5.0	5.4	5.0	4.7	4.6	4.6	4.8	4.7	4.8
20%	4.3	4.4	4.6	4.9	5.0	4.7	4.3	4.3	4.5	4.7	4.7	4.6
30%	4.3	4.4	4.5	4.6	4.6	4.4	4.2	4.3	4.5	4.7	4.6	4.5
40%	4.3	4.3	4.4	4.5	4.4	4.3	4.1	4.2	4.5	4.7	4.6	4.5
50%	4.2	4.3	4.4	4.4	4.3	4.2	4.0	4.2	4.4	4.6	4.5	4.5
60%	4.2	4.2	4.3	4.3	4.2	4.2	4.0	4.2	4.4	4.6	4.5	4.4
70%	4.1	4.2	4.3	4.3	4.2	4.1	4.0	4.1	4.3	4.6	4.4	4.4
80%	4.1	4.1	4.2	4.3	4.1	4.0	3.9	4.1	4.3	4.5	4.4	4.3
90%	4.1	4.0	4.1	4.2	4.0	3.8	3.8	4.0	4.2	4.4	4.4	4.2
Long Term												
Full Simulation Period[a]	4.2	4.3	4.5	4.5	4.5	4.3	4.1	4.3	4.4	4.6	4.6	4.5
Water Year Types[b]												
Wet (31%)	4.4	4.7	4.9	4.9	5.1	5.0	4.5	4.5	4.7	4.8	4.7	4.8
Above Normal (25%)	4.1	4.1	4.4	5.0	5.2	4.6	4.2	4.3	4.3	4.5	4.5	4.3
Below Normal (6%)	4.1	4.2	4.1	4.6	4.4	4.3	4.0	4.1	4.2	4.3	4.3	4.2
Dry (13%)	4.2	4.2	4.3	4.3	4.1	4.1	4.0	4.2	4.5	4.6	4.6	4.4
Critical (25%)	4.2	4.3	4.3	4.3	4.1	3.9	3.9	4.1	4.3	4.6	4.5	4.4

Alternative 5 (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.1	1.1	1.2
20%	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.1	1.1	1.1	1.2
30%	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
40%	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
50%	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
60%	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
70%	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2
80%	1.2	1.1	1.1	1.2	1.1	1.2	1.2	1.1	1.1	1.1	1.1	1.2
90%	1.2	1.2	1.1	1.1	1.1	1.2	1.1	1.1	1.1	1.1	1.1	1.2
Long Term												
Full Simulation Period[a]	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Water Year Types[b]												
Wet (31%)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.1
Above Normal (25%)	1.2	1.1	1.2	1.1	1.1	1.1	1.1	1.1	1.0	1.1	1.1	1.2
Below Normal (6%)	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Dry (13%)	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Critical (25%)	1.2	1.1	1.1	1.1	1.1	1.2	1.2	1.1	1.1	1.1	1.1	1.1

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-28-1-10. Mokelumne River at Terminous, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.3	3.7	3.9	4.0	4.3	3.9	3.6	3.5	3.6	3.7	3.7	3.7
20%	3.1	3.3	3.5	3.8	3.9	3.6	3.2	3.2	3.5	3.6	3.5	3.4
30%	3.1	3.2	3.4	3.5	3.5	3.3	3.0	3.2	3.4	3.6	3.5	3.4
40%	3.1	3.2	3.3	3.4	3.3	3.2	2.9	3.1	3.4	3.6	3.5	3.3
50%	3.1	3.1	3.3	3.3	3.2	3.1	2.9	3.1	3.3	3.6	3.5	3.3
60%	3.0	3.0	3.2	3.2	3.1	3.1	2.9	3.0	3.3	3.5	3.4	3.3
70%	3.0	3.0	3.1	3.2	3.0	2.9	2.8	3.0	3.2	3.5	3.3	3.2
80%	3.0	3.0	3.1	3.1	3.0	2.8	2.8	3.0	3.2	3.5	3.3	3.1
90%	2.9	2.9	2.9	3.0	2.9	2.7	2.7	2.9	3.1	3.4	3.2	3.1
Long Term												
Full Simulation Period[a]	3.1	3.2	3.4	3.4	3.4	3.2	3.0	3.2	3.4	3.6	3.5	3.3
Water Year Types[b]												
Wet (31%)	3.2	3.6	3.9	3.9	4.0	3.9	3.4	3.5	3.7	3.8	3.7	3.7
Above Normal (25%)	2.9	2.9	3.2	4.0	4.1	3.5	3.1	3.2	3.2	3.4	3.4	3.1
Below Normal (6%)	3.0	3.0	3.0	3.5	3.3	3.2	2.9	3.0	3.1	3.2	3.2	3.1
Dry (13%)	3.0	3.0	3.2	3.1	3.0	3.0	2.9	3.1	3.4	3.6	3.5	3.3
Critical (25%)	3.1	3.1	3.2	3.1	3.0	2.7	2.8	3.0	3.2	3.5	3.4	3.3

Alternative 6A,6B,6C (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	4.7	5.0	5.0	5.4	5.0	4.7	4.6	4.6	4.8	4.8	4.8
20%	4.3	4.4	4.7	4.9	5.0	4.7	4.3	4.3	4.5	4.7	4.7	4.6
30%	4.3	4.4	4.5	4.6	4.6	4.4	4.2	4.3	4.5	4.7	4.6	4.5
40%	4.2	4.3	4.5	4.5	4.4	4.3	4.1	4.2	4.4	4.7	4.6	4.5
50%	4.2	4.3	4.4	4.5	4.4	4.2	4.0	4.2	4.4	4.6	4.6	4.5
60%	4.2	4.2	4.4	4.4	4.2	4.2	4.0	4.2	4.4	4.6	4.5	4.4
70%	4.1	4.2	4.3	4.3	4.2	4.1	4.0	4.1	4.3	4.6	4.5	4.4
80%	4.1	4.2	4.3	4.3	4.1	4.0	3.9	4.1	4.3	4.5	4.4	4.3
90%	4.1	4.0	4.1	4.2	4.0	3.9	3.8	4.0	4.2	4.4	4.4	4.2
Long Term												
Full Simulation Period[a]	4.2	4.3	4.5	4.6	4.5	4.4	4.1	4.3	4.4	4.6	4.6	4.5
Water Year Types[b]												
Wet (31%)	4.4	4.7	5.0	4.9	5.1	5.0	4.5	4.5	4.7	4.8	4.8	4.8
Above Normal (25%)	4.1	4.1	4.4	5.0	5.2	4.6	4.2	4.3	4.3	4.5	4.5	4.3
Below Normal (6%)	4.1	4.2	4.1	4.6	4.4	4.3	4.0	4.1	4.2	4.3	4.4	4.3
Dry (13%)	4.2	4.2	4.4	4.3	4.2	4.1	4.0	4.2	4.4	4.6	4.6	4.4
Critical (25%)	4.2	4.3	4.4	4.3	4.1	3.9	3.9	4.1	4.3	4.6	4.5	4.4

Alternative 6A,6B,6C (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.1	1.1	1.1
20%	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.0	1.1	1.1	1.1	1.2
30%	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2
40%	1.2	1.1	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
50%	1.2	1.2	1.2	1.1	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1
60%	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.0	1.1	1.1	1.1
70%	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.2
80%	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.2
90%	1.2	1.2	1.2	1.1	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.2
Long Term												
Full Simulation Period[a]	1.2	1.1	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Water Year Types[b]												
Wet (31%)	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0	1.1	1.1
Above Normal (25%)	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.0	1.1	1.1	1.2
Below Normal (6%)	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2
Dry (13%)	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Critical (25%)	1.2	1.2	1.1	1.1	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-28-1-11. Mokelumne River at Terminous, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.3	3.7	3.9	4.0	4.3	3.9	3.6	3.5	3.6	3.7	3.7	3.7
20%	3.1	3.3	3.5	3.8	3.9	3.6	3.2	3.2	3.5	3.6	3.5	3.4
30%	3.1	3.2	3.4	3.5	3.5	3.3	3.0	3.2	3.4	3.6	3.5	3.4
40%	3.1	3.2	3.3	3.4	3.3	3.2	2.9	3.1	3.4	3.6	3.5	3.3
50%	3.1	3.1	3.3	3.3	3.2	3.1	2.9	3.1	3.3	3.6	3.5	3.3
60%	3.0	3.0	3.2	3.2	3.1	3.1	2.9	3.0	3.3	3.5	3.4	3.3
70%	3.0	3.0	3.1	3.2	3.0	2.9	2.8	3.0	3.2	3.5	3.3	3.2
80%	3.0	3.0	3.1	3.1	3.0	2.8	2.8	3.0	3.2	3.5	3.3	3.1
90%	2.9	2.9	2.9	3.0	2.9	2.7	2.7	2.9	3.1	3.4	3.2	3.1
Long Term												
Full Simulation Period[a]	3.1	3.2	3.4	3.4	3.4	3.2	3.0	3.2	3.4	3.6	3.5	3.3
Water Year Types[b]												
Wet (31%)	3.2	3.6	3.9	3.9	4.0	3.9	3.4	3.5	3.7	3.8	3.7	3.7
Above Normal (25%)	2.9	2.9	3.2	4.0	4.1	3.5	3.1	3.2	3.2	3.4	3.4	3.1
Below Normal (6%)	3.0	3.0	3.0	3.5	3.3	3.2	2.9	3.0	3.1	3.2	3.2	3.1
Dry (13%)	3.0	3.0	3.2	3.1	3.0	3.0	2.9	3.1	3.4	3.6	3.5	3.3
Critical (25%)	3.1	3.1	3.2	3.1	3.0	2.7	2.8	3.0	3.2	3.5	3.4	3.3

Alternative 7 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	4.8	5.0	5.0	5.4	5.0	4.7	4.6	4.6	4.8	4.7	4.8
20%	4.3	4.4	4.7	4.9	5.0	4.7	4.3	4.3	4.5	4.7	4.6	4.5
30%	4.3	4.4	4.5	4.6	4.6	4.4	4.2	4.3	4.5	4.7	4.6	4.5
40%	4.2	4.3	4.5	4.5	4.4	4.3	4.1	4.2	4.4	4.6	4.6	4.5
50%	4.2	4.3	4.4	4.4	4.4	4.2	4.0	4.2	4.4	4.6	4.5	4.4
60%	4.2	4.2	4.4	4.4	4.2	4.2	4.0	4.2	4.4	4.6	4.5	4.4
70%	4.1	4.2	4.3	4.3	4.2	4.1	4.0	4.1	4.3	4.5	4.4	4.4
80%	4.1	4.2	4.3	4.3	4.1	4.0	3.9	4.1	4.3	4.5	4.4	4.3
90%	4.1	4.0	4.1	4.2	4.0	3.9	3.8	4.0	4.2	4.4	4.4	4.2
Long Term												
Full Simulation Period[a]	4.2	4.3	4.5	4.6	4.5	4.4	4.1	4.3	4.4	4.6	4.5	4.5
Water Year Types[b]												
Wet (31%)	4.4	4.7	5.0	4.9	5.1	5.0	4.5	4.5	4.7	4.8	4.7	4.8
Above Normal (25%)	4.1	4.1	4.4	5.0	5.2	4.6	4.2	4.3	4.3	4.5	4.5	4.3
Below Normal (6%)	4.1	4.2	4.1	4.6	4.4	4.3	4.0	4.1	4.2	4.3	4.3	4.2
Dry (13%)	4.2	4.2	4.4	4.3	4.2	4.1	4.0	4.2	4.4	4.6	4.5	4.4
Critical (25%)	4.2	4.3	4.4	4.3	4.1	3.9	3.9	4.1	4.3	4.6	4.5	4.4

Alternative 7 (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.1	1.1	1.2
20%	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2
30%	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
40%	1.2	1.1	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
50%	1.2	1.2	1.2	1.1	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1
60%	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
70%	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1
80%	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1
90%	1.2	1.2	1.2	1.1	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.2
Long Term												
Full Simulation Period[a]	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.1	1.1
Water Year Types[b]												
Wet (31%)	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.1
Above Normal (25%)	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2
Below Normal (6%)	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Dry (13%)	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Critical (25%)	1.2	1.2	1.1	1.1	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-28-1-12. Mokelumne River at Terminous, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.3	3.7	3.9	4.0	4.3	3.9	3.6	3.5	3.6	3.7	3.7	3.7
20%	3.1	3.3	3.5	3.8	3.9	3.6	3.2	3.2	3.5	3.6	3.5	3.4
30%	3.1	3.2	3.4	3.5	3.5	3.3	3.0	3.2	3.4	3.6	3.5	3.4
40%	3.1	3.2	3.3	3.4	3.3	3.2	2.9	3.1	3.4	3.6	3.5	3.3
50%	3.1	3.1	3.3	3.3	3.2	3.1	2.9	3.1	3.3	3.6	3.5	3.3
60%	3.0	3.0	3.2	3.2	3.1	3.1	2.9	3.0	3.3	3.5	3.4	3.3
70%	3.0	3.0	3.1	3.2	3.0	2.9	2.8	3.0	3.2	3.5	3.3	3.2
80%	3.0	3.0	3.1	3.1	3.0	2.8	2.8	3.0	3.2	3.5	3.3	3.1
90%	2.9	2.9	2.9	3.0	2.9	2.7	2.7	2.9	3.1	3.4	3.2	3.1
Long Term												
Full Simulation Period[a]	3.1	3.2	3.4	3.4	3.4	3.2	3.0	3.2	3.4	3.6	3.5	3.3
Water Year Types[b]												
Wet (31%)	3.2	3.6	3.9	3.9	4.0	3.9	3.4	3.5	3.7	3.8	3.7	3.7
Above Normal (25%)	2.9	2.9	3.2	4.0	4.1	3.5	3.1	3.2	3.2	3.4	3.4	3.1
Below Normal (6%)	3.0	3.0	3.0	3.5	3.3	3.2	2.9	3.0	3.1	3.2	3.2	3.1
Dry (13%)	3.0	3.0	3.2	3.1	3.0	3.0	2.9	3.1	3.4	3.6	3.5	3.3
Critical (25%)	3.1	3.1	3.2	3.1	3.0	2.7	2.8	3.0	3.2	3.5	3.4	3.3

Alternative 8 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	4.8	5.0	5.0	5.4	5.0	4.7	4.6	4.6	4.8	4.7	4.8
20%	4.3	4.4	4.7	4.9	5.1	4.7	4.3	4.3	4.5	4.7	4.6	4.5
30%	4.3	4.4	4.5	4.6	4.6	4.4	4.2	4.3	4.5	4.7	4.6	4.5
40%	4.2	4.3	4.5	4.5	4.4	4.3	4.1	4.3	4.4	4.6	4.6	4.5
50%	4.2	4.3	4.4	4.5	4.4	4.3	4.0	4.2	4.4	4.6	4.5	4.4
60%	4.2	4.2	4.3	4.4	4.2	4.2	4.0	4.2	4.4	4.6	4.5	4.4
70%	4.1	4.2	4.3	4.3	4.2	4.1	4.0	4.1	4.3	4.5	4.4	4.4
80%	4.1	4.2	4.3	4.3	4.1	4.0	3.9	4.1	4.3	4.5	4.4	4.3
90%	4.1	4.0	4.1	4.2	4.1	3.9	3.8	4.0	4.2	4.4	4.4	4.2
Long Term												
Full Simulation Period[a]	4.2	4.3	4.5	4.6	4.5	4.4	4.1	4.3	4.4	4.6	4.5	4.5
Water Year Types[b]												
Wet (31%)	4.4	4.7	5.0	4.9	5.1	5.0	4.5	4.5	4.7	4.8	4.7	4.8
Above Normal (25%)	4.1	4.1	4.4	5.0	5.2	4.6	4.2	4.3	4.3	4.5	4.4	4.3
Below Normal (6%)	4.1	4.2	4.1	4.6	4.4	4.3	4.0	4.1	4.2	4.3	4.3	4.2
Dry (13%)	4.2	4.2	4.4	4.3	4.2	4.2	4.0	4.2	4.4	4.6	4.5	4.4
Critical (25%)	4.2	4.3	4.4	4.3	4.2	3.9	3.9	4.1	4.3	4.6	4.5	4.4

Alternative 8 (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.1	1.1	1.2
20%	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.1	1.2
30%	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
40%	1.2	1.1	1.2	1.1	1.1	1.1	1.2	1.1	1.1	1.1	1.1	1.1
50%	1.2	1.2	1.2	1.1	1.2	1.1	1.2	1.1	1.1	1.1	1.1	1.1
60%	1.1	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
70%	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1
80%	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1
90%	1.2	1.2	1.2	1.1	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.2
Long Term												
Full Simulation Period[a]	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.1	1.1
Water Year Types[b]												
Wet (31%)	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.1
Above Normal (25%)	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2
Below Normal (6%)	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Dry (13%)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1
Critical (25%)	1.2	1.2	1.1	1.1	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-28-1-13. Mokelumne River at Terminous, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.3	3.7	3.9	4.0	4.3	3.9	3.6	3.5	3.6	3.7	3.7	3.7
20%	3.1	3.3	3.5	3.8	3.9	3.6	3.2	3.2	3.5	3.6	3.5	3.4
30%	3.1	3.2	3.4	3.5	3.5	3.3	3.0	3.2	3.4	3.6	3.5	3.4
40%	3.1	3.2	3.3	3.4	3.3	3.2	2.9	3.1	3.4	3.6	3.5	3.3
50%	3.1	3.1	3.3	3.3	3.2	3.1	2.9	3.1	3.3	3.6	3.5	3.3
60%	3.0	3.0	3.2	3.2	3.1	3.1	2.9	3.0	3.3	3.5	3.4	3.3
70%	3.0	3.0	3.1	3.2	3.0	2.9	2.8	3.0	3.2	3.5	3.3	3.2
80%	3.0	3.0	3.1	3.1	3.0	2.8	2.8	3.0	3.2	3.5	3.3	3.1
90%	2.9	2.9	2.9	3.0	2.9	2.7	2.7	2.9	3.1	3.4	3.2	3.1
Long Term												
Full Simulation Period[a]	3.1	3.2	3.4	3.4	3.4	3.2	3.0	3.2	3.4	3.6	3.5	3.3
Water Year Types[b]												
Wet (31%)	3.2	3.6	3.9	3.9	4.0	3.9	3.4	3.5	3.7	3.8	3.7	3.7
Above Normal (25%)	2.9	2.9	3.2	4.0	4.1	3.5	3.1	3.2	3.2	3.4	3.4	3.1
Below Normal (6%)	3.0	3.0	3.0	3.5	3.3	3.2	2.9	3.0	3.1	3.2	3.2	3.1
Dry (13%)	3.0	3.0	3.2	3.1	3.0	3.0	2.9	3.1	3.4	3.6	3.5	3.3
Critical (25%)	3.1	3.1	3.2	3.1	3.0	2.7	2.8	3.0	3.2	3.5	3.4	3.3

Alternative 9 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	4.7	4.9	5.0	5.3	4.9	4.6	4.6	4.6	4.8	4.7	4.8
20%	4.3	4.4	4.6	4.8	5.0	4.7	4.3	4.3	4.6	4.7	4.6	4.5
30%	4.2	4.3	4.5	4.6	4.5	4.4	4.2	4.2	4.5	4.7	4.6	4.5
40%	4.2	4.3	4.4	4.5	4.4	4.3	4.1	4.2	4.4	4.6	4.6	4.4
50%	4.2	4.2	4.4	4.5	4.3	4.3	4.0	4.2	4.4	4.6	4.5	4.4
60%	4.1	4.2	4.3	4.4	4.2	4.2	4.0	4.2	4.3	4.6	4.5	4.4
70%	4.1	4.1	4.3	4.3	4.2	4.1	4.0	4.2	4.3	4.5	4.4	4.3
80%	4.1	4.1	4.2	4.2	4.1	4.0	4.0	4.1	4.3	4.5	4.4	4.2
90%	4.1	4.0	4.1	4.1	4.0	3.9	3.8	4.0	4.2	4.4	4.4	4.2
Long Term												
Full Simulation Period[a]	4.2	4.3	4.4	4.5	4.5	4.3	4.1	4.3	4.4	4.6	4.5	4.4
Water Year Types[b]												
Wet (31%)	4.3	4.6	4.9	4.9	5.1	5.0	4.5	4.5	4.7	4.8	4.7	4.8
Above Normal (25%)	4.1	4.1	4.3	5.0	5.1	4.6	4.2	4.2	4.2	4.5	4.4	4.3
Below Normal (6%)	4.1	4.2	4.1	4.6	4.4	4.3	4.0	4.1	4.2	4.3	4.3	4.2
Dry (13%)	4.2	4.2	4.3	4.3	4.2	4.2	4.0	4.3	4.5	4.6	4.5	4.3
Critical (25%)	4.2	4.2	4.3	4.2	4.1	3.9	4.0	4.1	4.3	4.6	4.5	4.4

Alternative 9 (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.0	1.0	1.1	1.1
20%	1.2	1.1	1.1	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
30%	1.1	1.1	1.1	1.1	1.0	1.1	1.2	1.1	1.1	1.1	1.1	1.1
40%	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.1	1.1	1.1	1.1	1.1
50%	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.1	1.1	1.0	1.0	1.1
60%	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.1	1.1	1.1
70%	1.1	1.1	1.1	1.1	1.1	1.2	1.1	1.1	1.1	1.1	1.1	1.1
80%	1.1	1.1	1.1	1.1	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1
90%	1.2	1.2	1.1	1.1	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1
Long Term												
Full Simulation Period[a]	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.1	1.1
Water Year Types[b]												
Wet (31%)	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1
Above Normal (25%)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.1	1.1	1.1
Below Normal (6%)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.1	1.1	1.1	1.1
Dry (13%)	1.1	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1
Critical (25%)	1.1	1.1	1.1	1.1	1.1	1.2	1.2	1.2	1.1	1.1	1.1	1.1

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-28-1-14. Mokelumne River at Terminous, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.8	5.2	5.4	5.5	5.8	5.4	5.1	5.0	5.1	5.3	5.2	5.2
20%	4.7	4.8	5.1	5.4	5.5	5.2	4.7	4.7	5.0	5.2	5.1	5.0
30%	4.6	4.8	4.9	5.1	5.0	4.8	4.6	4.7	5.0	5.2	5.1	4.9
40%	4.6	4.7	4.8	4.9	4.8	4.7	4.5	4.7	4.9	5.1	5.0	4.9
50%	4.6	4.6	4.8	4.9	4.7	4.6	4.4	4.6	4.9	5.1	5.0	4.9
60%	4.6	4.6	4.7	4.8	4.6	4.6	4.4	4.6	4.8	5.1	4.9	4.9
70%	4.5	4.6	4.7	4.7	4.6	4.4	4.4	4.6	4.8	5.0	4.9	4.8
80%	4.5	4.5	4.6	4.7	4.5	4.3	4.3	4.5	4.7	5.0	4.8	4.7
90%	4.5	4.4	4.5	4.5	4.4	4.2	4.2	4.4	4.7	4.9	4.8	4.6
Long Term												
Full Simulation Period[a]	4.6	4.7	4.9	5.0	4.9	4.7	4.5	4.7	4.9	5.1	5.0	4.9
Water Year Types[b]												
Wet (31%)	4.8	5.1	5.4	5.4	5.6	5.4	4.9	5.0	5.1	5.3	5.2	5.2
Above Normal (25%)	4.5	4.5	4.8	5.5	5.6	5.0	4.6	4.7	4.7	5.0	4.9	4.7
Below Normal (6%)	4.5	4.6	4.5	5.0	4.8	4.7	4.4	4.5	4.7	4.8	4.8	4.7
Dry (13%)	4.6	4.6	4.7	4.7	4.5	4.5	4.4	4.6	4.9	5.1	5.0	4.8
Critical (25%)	4.6	4.7	4.8	4.7	4.5	4.3	4.3	4.5	4.8	5.1	4.9	4.8

Alternative 1A,1B,1C (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	4.7	5.0	5.0	5.4	5.0	4.7	4.5	4.6	4.8	4.7	4.7
20%	4.3	4.4	4.6	4.9	5.0	4.7	4.3	4.3	4.5	4.7	4.6	4.5
30%	4.3	4.3	4.5	4.6	4.6	4.4	4.2	4.3	4.5	4.7	4.6	4.5
40%	4.2	4.3	4.4	4.5	4.4	4.3	4.1	4.2	4.4	4.6	4.6	4.5
50%	4.2	4.2	4.4	4.4	4.3	4.2	4.0	4.2	4.4	4.6	4.5	4.4
60%	4.2	4.2	4.3	4.3	4.2	4.2	4.0	4.1	4.4	4.6	4.5	4.4
70%	4.2	4.2	4.3	4.3	4.2	4.1	4.0	4.1	4.3	4.5	4.4	4.4
80%	4.1	4.1	4.2	4.3	4.1	4.0	3.9	4.1	4.3	4.5	4.4	4.3
90%	4.1	4.0	4.1	4.1	4.0	3.8	3.8	4.0	4.2	4.4	4.3	4.2
Long Term												
Full Simulation Period[a]	4.2	4.3	4.5	4.5	4.5	4.3	4.1	4.2	4.4	4.6	4.5	4.5
Water Year Types[b]												
Wet (31%)	4.4	4.7	4.9	4.9	5.1	5.0	4.5	4.5	4.7	4.8	4.7	4.7
Above Normal (25%)	4.1	4.1	4.3	5.0	5.2	4.6	4.2	4.2	4.3	4.5	4.5	4.3
Below Normal (6%)	4.2	4.2	4.1	4.6	4.4	4.3	4.0	4.1	4.2	4.3	4.3	4.2
Dry (13%)	4.2	4.2	4.3	4.3	4.1	4.1	4.0	4.2	4.5	4.6	4.5	4.4
Critical (25%)	4.2	4.2	4.3	4.3	4.1	3.9	3.9	4.1	4.3	4.6	4.5	4.4

Alternative 1A,1B,1C (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.5	-0.5
20%	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4	-0.5	-0.5	-0.5	-0.5	-0.5
30%	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4
40%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.5	-0.4
50%	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.4
60%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.4
70%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4
80%	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4
90%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4
Long Term												
Full Simulation Period[a]	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.4
Water Year Types[b]												
Wet (31%)	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.5	-0.5
Above Normal (25%)	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.5	-0.5	-0.5
Below Normal (6%)	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.4
Dry (13%)	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.4
Critical (25%)	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-28-1-15. Mokelumne River at Terminous, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.8	5.2	5.4	5.5	5.8	5.4	5.1	5.0	5.1	5.3	5.2	5.2
20%	4.7	4.8	5.1	5.4	5.5	5.2	4.7	4.7	5.0	5.2	5.1	5.0
30%	4.6	4.8	4.9	5.1	5.0	4.8	4.6	4.7	5.0	5.2	5.1	4.9
40%	4.6	4.7	4.8	4.9	4.8	4.7	4.5	4.7	4.9	5.1	5.0	4.9
50%	4.6	4.6	4.8	4.9	4.7	4.6	4.4	4.6	4.9	5.1	5.0	4.9
60%	4.6	4.6	4.7	4.8	4.6	4.6	4.4	4.6	4.8	5.1	4.9	4.9
70%	4.5	4.6	4.7	4.7	4.6	4.4	4.4	4.6	4.8	5.0	4.9	4.8
80%	4.5	4.5	4.6	4.7	4.5	4.3	4.3	4.5	4.7	5.0	4.8	4.7
90%	4.5	4.4	4.5	4.5	4.4	4.2	4.2	4.4	4.7	4.9	4.8	4.6
Long Term												
Full Simulation Period[a]	4.6	4.7	4.9	5.0	4.9	4.7	4.5	4.7	4.9	5.1	5.0	4.9
Water Year Types[b]												
Wet (31%)	4.8	5.1	5.4	5.4	5.6	5.4	4.9	5.0	5.1	5.3	5.2	5.2
Above Normal (25%)	4.5	4.5	4.8	5.5	5.6	5.0	4.6	4.7	4.7	5.0	4.9	4.7
Below Normal (6%)	4.5	4.6	4.5	5.0	4.8	4.7	4.4	4.5	4.7	4.8	4.8	4.7
Dry (13%)	4.6	4.6	4.7	4.7	4.5	4.5	4.4	4.6	4.9	5.1	5.0	4.8
Critical (25%)	4.6	4.7	4.8	4.7	4.5	4.3	4.3	4.5	4.8	5.1	4.9	4.8

Alternative 2A,2B,2C (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	4.7	5.0	5.0	5.4	5.0	4.7	4.6	4.6	4.8	4.7	4.8
20%	4.3	4.4	4.6	4.9	5.0	4.7	4.3	4.3	4.5	4.7	4.6	4.6
30%	4.3	4.4	4.5	4.6	4.6	4.4	4.2	4.3	4.5	4.7	4.6	4.5
40%	4.3	4.3	4.4	4.5	4.4	4.2	4.1	4.2	4.4	4.6	4.6	4.5
50%	4.2	4.3	4.4	4.4	4.3	4.2	4.0	4.2	4.4	4.6	4.6	4.5
60%	4.2	4.2	4.3	4.4	4.2	4.2	4.0	4.2	4.4	4.6	4.5	4.4
70%	4.2	4.2	4.3	4.3	4.2	4.1	4.0	4.1	4.3	4.6	4.4	4.4
80%	4.2	4.1	4.2	4.3	4.1	4.0	3.9	4.1	4.3	4.5	4.4	4.3
90%	4.1	4.0	4.1	4.2	4.0	3.8	3.8	4.0	4.2	4.4	4.4	4.2
Long Term												
Full Simulation Period[a]	4.3	4.3	4.5	4.6	4.5	4.3	4.1	4.3	4.4	4.6	4.6	4.5
Water Year Types[b]												
Wet (31%)	4.4	4.7	5.0	4.9	5.1	5.0	4.5	4.5	4.7	4.8	4.7	4.8
Above Normal (25%)	4.1	4.1	4.4	5.0	5.2	4.6	4.2	4.3	4.3	4.5	4.5	4.3
Below Normal (6%)	4.2	4.2	4.1	4.6	4.3	4.2	4.0	4.1	4.3	4.3	4.3	4.2
Dry (13%)	4.2	4.2	4.3	4.3	4.2	4.1	4.0	4.2	4.5	4.6	4.6	4.4
Critical (25%)	4.2	4.3	4.3	4.3	4.1	3.9	3.9	4.1	4.3	4.6	4.5	4.4

Alternative 2A,2B,2C (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4	-0.4	-0.5	-0.4	-0.5	-0.5	-0.4
20%	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.4
30%	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4
40%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4
50%	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4
60%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4
70%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4
80%	-0.3	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4
90%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4
Long Term												
Full Simulation Period[a]	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4
Water Year Types[b]												
Wet (31%)	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4
Above Normal (25%)	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4
Below Normal (6%)	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4
Dry (13%)	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4
Critical (25%)	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-28-1-16. Mokelumne River at Terminous, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.8	5.2	5.4	5.5	5.8	5.4	5.1	5.0	5.1	5.3	5.2	5.2
20%	4.7	4.8	5.1	5.4	5.5	5.2	4.7	4.7	5.0	5.2	5.1	5.0
30%	4.6	4.8	4.9	5.1	5.0	4.8	4.6	4.7	5.0	5.2	5.1	4.9
40%	4.6	4.7	4.8	4.9	4.8	4.7	4.5	4.7	4.9	5.1	5.0	4.9
50%	4.6	4.6	4.8	4.9	4.7	4.6	4.4	4.6	4.9	5.1	5.0	4.9
60%	4.6	4.6	4.7	4.8	4.6	4.6	4.4	4.6	4.8	5.1	4.9	4.9
70%	4.5	4.6	4.7	4.7	4.6	4.4	4.4	4.6	4.8	5.0	4.9	4.8
80%	4.5	4.5	4.6	4.7	4.5	4.3	4.3	4.5	4.7	5.0	4.8	4.7
90%	4.5	4.4	4.5	4.5	4.4	4.2	4.2	4.4	4.7	4.9	4.8	4.6
Long Term												
Full Simulation Period[a]	4.6	4.7	4.9	5.0	4.9	4.7	4.5	4.7	4.9	5.1	5.0	4.9
Water Year Types[b]												
Wet (31%)	4.8	5.1	5.4	5.4	5.6	5.4	4.9	5.0	5.1	5.3	5.2	5.2
Above Normal (25%)	4.5	4.5	4.8	5.5	5.6	5.0	4.6	4.7	4.7	5.0	4.9	4.7
Below Normal (6%)	4.5	4.6	4.5	5.0	4.8	4.7	4.4	4.5	4.7	4.8	4.8	4.7
Dry (13%)	4.6	4.6	4.7	4.7	4.5	4.5	4.4	4.6	4.9	5.1	5.0	4.8
Critical (25%)	4.6	4.7	4.8	4.7	4.5	4.3	4.3	4.5	4.8	5.1	4.9	4.8

Alternative 3 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	4.7	5.0	5.0	5.4	5.0	4.7	4.5	4.6	4.8	4.7	4.7
20%	4.3	4.4	4.6	4.9	5.0	4.7	4.3	4.3	4.5	4.7	4.6	4.5
30%	4.3	4.3	4.5	4.6	4.6	4.4	4.2	4.3	4.5	4.7	4.6	4.5
40%	4.2	4.3	4.4	4.5	4.4	4.3	4.1	4.2	4.4	4.6	4.6	4.5
50%	4.2	4.2	4.4	4.4	4.3	4.2	4.0	4.2	4.4	4.6	4.5	4.4
60%	4.2	4.2	4.3	4.3	4.2	4.2	4.0	4.1	4.4	4.6	4.5	4.4
70%	4.2	4.1	4.3	4.3	4.2	4.1	4.0	4.1	4.3	4.5	4.4	4.3
80%	4.1	4.1	4.2	4.3	4.1	4.0	3.9	4.1	4.3	4.5	4.4	4.3
90%	4.1	4.0	4.1	4.2	4.0	3.8	3.8	4.0	4.2	4.4	4.3	4.2
Long Term												
Full Simulation Period[a]	4.2	4.3	4.5	4.5	4.5	4.3	4.1	4.2	4.4	4.6	4.5	4.4
Water Year Types[b]												
Wet (31%)	4.4	4.7	4.9	4.9	5.1	5.0	4.5	4.5	4.7	4.8	4.7	4.7
Above Normal (25%)	4.1	4.1	4.3	5.0	5.2	4.6	4.2	4.2	4.3	4.5	4.5	4.2
Below Normal (6%)	4.2	4.2	4.1	4.6	4.4	4.3	4.0	4.1	4.2	4.3	4.3	4.2
Dry (13%)	4.2	4.2	4.3	4.3	4.1	4.1	4.0	4.2	4.5	4.6	4.5	4.4
Critical (25%)	4.2	4.2	4.3	4.3	4.1	3.9	3.9	4.1	4.3	4.6	4.5	4.4

Alternative 3 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.5	-0.5
20%	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4	-0.5	-0.5	-0.5	-0.5	-0.5
30%	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4
40%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.5	-0.4
50%	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4
60%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.4
70%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4
80%	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4
90%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4
Long Term												
Full Simulation Period[a]	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.4
Water Year Types[b]												
Wet (31%)	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.5	-0.5
Above Normal (25%)	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4	-0.5	-0.5	-0.5	-0.5	-0.5
Below Normal (6%)	-0.4	-0.5	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.4
Dry (13%)	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.4
Critical (25%)	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-28-1-17. Mokelumne River at Terminous, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.8	5.2	5.4	5.5	5.8	5.4	5.1	5.0	5.1	5.3	5.2	5.2
20%	4.7	4.8	5.1	5.4	5.5	5.2	4.7	4.7	5.0	5.2	5.1	5.0
30%	4.6	4.8	4.9	5.1	5.0	4.8	4.6	4.7	5.0	5.2	5.1	4.9
40%	4.6	4.7	4.8	4.9	4.8	4.7	4.5	4.7	4.9	5.1	5.0	4.9
50%	4.6	4.6	4.8	4.9	4.7	4.6	4.4	4.6	4.9	5.1	5.0	4.9
60%	4.6	4.6	4.7	4.8	4.6	4.6	4.4	4.6	4.8	5.1	4.9	4.9
70%	4.5	4.6	4.7	4.7	4.6	4.4	4.4	4.6	4.8	5.0	4.9	4.8
80%	4.5	4.5	4.6	4.7	4.5	4.3	4.3	4.5	4.7	5.0	4.8	4.7
90%	4.5	4.4	4.5	4.5	4.4	4.2	4.2	4.4	4.7	4.9	4.8	4.6
Long Term												
Full Simulation Period[a]	4.6	4.7	4.9	5.0	4.9	4.7	4.5	4.7	4.9	5.1	5.0	4.9
Water Year Types[b]												
Wet (31%)	4.8	5.1	5.4	5.4	5.6	5.4	4.9	5.0	5.1	5.3	5.2	5.2
Above Normal (25%)	4.5	4.5	4.8	5.5	5.6	5.0	4.6	4.7	4.7	5.0	4.9	4.7
Below Normal (6%)	4.5	4.6	4.5	5.0	4.8	4.7	4.4	4.5	4.7	4.8	4.8	4.7
Dry (13%)	4.6	4.6	4.7	4.7	4.5	4.5	4.4	4.6	4.9	5.1	5.0	4.8
Critical (25%)	4.6	4.7	4.8	4.7	4.5	4.3	4.3	4.5	4.8	5.1	4.9	4.8

Alternative 4 H1 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	4.7	5.0	5.0	5.4	5.0	4.7	4.6	4.6	4.8	4.7	4.7
20%	4.3	4.4	4.6	4.9	5.0	4.8	4.3	4.3	4.6	4.7	4.6	4.5
30%	4.3	4.4	4.5	4.6	4.6	4.4	4.2	4.3	4.5	4.7	4.6	4.5
40%	4.3	4.3	4.4	4.5	4.4	4.3	4.1	4.2	4.5	4.6	4.6	4.5
50%	4.2	4.2	4.4	4.4	4.3	4.2	4.0	4.2	4.4	4.6	4.6	4.5
60%	4.2	4.2	4.3	4.4	4.2	4.2	4.0	4.2	4.4	4.6	4.5	4.4
70%	4.2	4.2	4.3	4.3	4.2	4.1	4.0	4.1	4.3	4.6	4.4	4.4
80%	4.1	4.1	4.2	4.3	4.1	4.0	3.9	4.1	4.3	4.5	4.4	4.3
90%	4.1	4.0	4.1	4.2	4.0	3.8	3.8	4.0	4.3	4.4	4.4	4.2
Long Term												
Full Simulation Period[a]	4.2	4.3	4.5	4.6	4.5	4.3	4.1	4.3	4.4	4.6	4.6	4.5
Water Year Types[b]												
Wet (31%)	4.4	4.7	5.0	4.9	5.1	5.0	4.5	4.5	4.7	4.8	4.7	4.7
Above Normal (25%)	4.1	4.1	4.4	5.0	5.2	4.6	4.2	4.3	4.3	4.5	4.5	4.3
Below Normal (6%)	4.2	4.2	4.1	4.6	4.4	4.3	4.0	4.1	4.2	4.3	4.3	4.3
Dry (13%)	4.2	4.2	4.3	4.3	4.2	4.1	4.0	4.2	4.5	4.6	4.6	4.4
Critical (25%)	4.2	4.2	4.3	4.3	4.1	3.9	3.9	4.1	4.3	4.6	4.5	4.4

Alternative 4 H1 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.5	-0.5
20%	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.5
30%	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4
40%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4
50%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4
60%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4
70%	-0.3	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4
80%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4
90%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4
Long Term												
Full Simulation Period[a]	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4
Water Year Types[b]												
Wet (31%)	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.5
Above Normal (25%)	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.5
Below Normal (6%)	-0.3	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4
Dry (13%)	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4
Critical (25%)	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-28-1-18. Mokelumne River at Terminous, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.8	5.2	5.4	5.5	5.8	5.4	5.1	5.0	5.1	5.3	5.2	5.2
20%	4.7	4.8	5.1	5.4	5.5	5.2	4.7	4.7	5.0	5.2	5.1	5.0
30%	4.6	4.8	4.9	5.1	5.0	4.8	4.6	4.7	5.0	5.2	5.1	4.9
40%	4.6	4.7	4.8	4.9	4.8	4.7	4.5	4.7	4.9	5.1	5.0	4.9
50%	4.6	4.6	4.8	4.9	4.7	4.6	4.4	4.6	4.9	5.1	5.0	4.9
60%	4.6	4.6	4.7	4.8	4.6	4.6	4.4	4.6	4.8	5.1	4.9	4.9
70%	4.5	4.6	4.7	4.7	4.6	4.4	4.4	4.6	4.8	5.0	4.9	4.8
80%	4.5	4.5	4.6	4.7	4.5	4.3	4.3	4.5	4.7	5.0	4.8	4.7
90%	4.5	4.4	4.5	4.5	4.4	4.2	4.2	4.4	4.7	4.9	4.8	4.6
Long Term												
Full Simulation Period[a]	4.6	4.7	4.9	5.0	4.9	4.7	4.5	4.7	4.9	5.1	5.0	4.9
Water Year Types[b]												
Wet (31%)	4.8	5.1	5.4	5.4	5.6	5.4	4.9	5.0	5.1	5.3	5.2	5.2
Above Normal (25%)	4.5	4.5	4.8	5.5	5.6	5.0	4.6	4.7	4.7	5.0	4.9	4.7
Below Normal (6%)	4.5	4.6	4.5	5.0	4.8	4.7	4.4	4.5	4.7	4.8	4.8	4.7
Dry (13%)	4.6	4.6	4.7	4.7	4.5	4.5	4.4	4.6	4.9	5.1	5.0	4.8
Critical (25%)	4.6	4.7	4.8	4.7	4.5	4.3	4.3	4.5	4.8	5.1	4.9	4.8

Alternative 4 H2 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	4.8	5.0	5.0	5.4	5.0	4.7	4.6	4.6	4.8	4.7	4.7
20%	4.3	4.4	4.6	4.9	5.1	4.8	4.3	4.3	4.6	4.7	4.6	4.5
30%	4.3	4.4	4.5	4.6	4.6	4.4	4.2	4.3	4.5	4.7	4.6	4.5
40%	4.3	4.3	4.4	4.5	4.4	4.3	4.1	4.3	4.5	4.7	4.6	4.5
50%	4.2	4.3	4.4	4.4	4.3	4.2	4.0	4.2	4.4	4.6	4.6	4.5
60%	4.2	4.2	4.3	4.4	4.2	4.2	4.0	4.2	4.4	4.6	4.5	4.4
70%	4.2	4.2	4.3	4.3	4.2	4.1	4.0	4.1	4.3	4.6	4.4	4.4
80%	4.1	4.1	4.2	4.3	4.1	4.0	4.0	4.1	4.3	4.5	4.4	4.3
90%	4.1	4.0	4.1	4.2	4.0	3.8	3.8	4.0	4.2	4.4	4.4	4.2
Long Term												
Full Simulation Period[a]	4.2	4.3	4.5	4.6	4.5	4.4	4.1	4.3	4.4	4.6	4.6	4.5
Water Year Types[b]												
Wet (31%)	4.4	4.7	5.0	4.9	5.1	5.0	4.5	4.5	4.7	4.8	4.7	4.8
Above Normal (25%)	4.1	4.1	4.4	5.0	5.2	4.6	4.3	4.3	4.3	4.5	4.5	4.3
Below Normal (6%)	4.1	4.2	4.1	4.6	4.4	4.3	4.0	4.1	4.2	4.3	4.3	4.3
Dry (13%)	4.2	4.2	4.3	4.3	4.2	4.1	4.0	4.2	4.5	4.6	4.6	4.4
Critical (25%)	4.2	4.2	4.3	4.3	4.1	3.9	3.9	4.1	4.3	4.6	4.5	4.4

Alternative 4 H2 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.5
20%	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.5
30%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4
40%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4
50%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4
60%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4
70%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4
80%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.3	-0.4	-0.4	-0.5	-0.4	-0.4
90%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4
Long Term												
Full Simulation Period[a]	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4
Water Year Types[b]												
Wet (31%)	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.5
Above Normal (25%)	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.5
Below Normal (6%)	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4
Dry (13%)	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4
Critical (25%)	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-28-1-19. Mokelumne River at Terminous, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.8	5.2	5.4	5.5	5.8	5.4	5.1	5.0	5.1	5.3	5.2	5.2
20%	4.7	4.8	5.1	5.4	5.5	5.2	4.7	4.7	5.0	5.2	5.1	5.0
30%	4.6	4.8	4.9	5.1	5.0	4.8	4.6	4.7	5.0	5.2	5.1	4.9
40%	4.6	4.7	4.8	4.9	4.8	4.7	4.5	4.7	4.9	5.1	5.0	4.9
50%	4.6	4.6	4.8	4.9	4.7	4.6	4.4	4.6	4.9	5.1	5.0	4.9
60%	4.6	4.6	4.7	4.8	4.6	4.6	4.4	4.6	4.8	5.1	4.9	4.9
70%	4.5	4.6	4.7	4.7	4.6	4.4	4.4	4.6	4.8	5.0	4.9	4.8
80%	4.5	4.5	4.6	4.7	4.5	4.3	4.3	4.5	4.7	5.0	4.8	4.7
90%	4.5	4.4	4.5	4.5	4.4	4.2	4.2	4.4	4.7	4.9	4.8	4.6
Long Term												
Full Simulation Period[a]	4.6	4.7	4.9	5.0	4.9	4.7	4.5	4.7	4.9	5.1	5.0	4.9
Water Year Types[b]												
Wet (31%)	4.8	5.1	5.4	5.4	5.6	5.4	4.9	5.0	5.1	5.3	5.2	5.2
Above Normal (25%)	4.5	4.5	4.8	5.5	5.6	5.0	4.6	4.7	4.7	5.0	4.9	4.7
Below Normal (6%)	4.5	4.6	4.5	5.0	4.8	4.7	4.4	4.5	4.7	4.8	4.8	4.7
Dry (13%)	4.6	4.6	4.7	4.7	4.5	4.5	4.4	4.6	4.9	5.1	5.0	4.8
Critical (25%)	4.6	4.7	4.8	4.7	4.5	4.3	4.3	4.5	4.8	5.1	4.9	4.8

Alternative 4 H3 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	4.7	5.0	5.0	5.4	5.0	4.7	4.6	4.6	4.8	4.7	4.8
20%	4.3	4.4	4.6	4.9	5.0	4.8	4.3	4.3	4.6	4.7	4.6	4.6
30%	4.3	4.4	4.5	4.6	4.6	4.4	4.2	4.3	4.5	4.7	4.6	4.5
40%	4.3	4.3	4.4	4.5	4.4	4.3	4.1	4.2	4.4	4.6	4.6	4.5
50%	4.2	4.2	4.4	4.4	4.3	4.2	4.0	4.2	4.4	4.6	4.6	4.5
60%	4.2	4.2	4.3	4.4	4.2	4.2	4.0	4.2	4.4	4.6	4.5	4.4
70%	4.2	4.2	4.3	4.3	4.2	4.1	4.0	4.1	4.3	4.6	4.4	4.4
80%	4.1	4.1	4.2	4.3	4.1	4.0	3.9	4.1	4.3	4.5	4.4	4.3
90%	4.1	4.0	4.1	4.2	4.0	3.8	3.8	4.0	4.2	4.4	4.4	4.2
Long Term												
Full Simulation Period[a]	4.3	4.3	4.5	4.6	4.5	4.3	4.1	4.3	4.4	4.6	4.6	4.5
Water Year Types[b]												
Wet (31%)	4.4	4.7	5.0	4.9	5.1	5.0	4.5	4.5	4.7	4.8	4.7	4.8
Above Normal (25%)	4.1	4.1	4.4	5.0	5.2	4.6	4.2	4.3	4.3	4.5	4.5	4.3
Below Normal (6%)	4.1	4.2	4.1	4.6	4.4	4.3	4.0	4.1	4.3	4.3	4.3	4.2
Dry (13%)	4.2	4.2	4.3	4.3	4.2	4.1	4.0	4.2	4.5	4.6	4.6	4.4
Critical (25%)	4.2	4.3	4.3	4.3	4.1	3.9	3.9	4.1	4.3	4.6	4.5	4.4

Alternative 4 H3 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.5	-0.4
20%	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.4
30%	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4
40%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4
50%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4
60%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4
70%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4
80%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4
90%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4
Long Term												
Full Simulation Period[a]	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4
Water Year Types[b]												
Wet (31%)	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.4
Above Normal (25%)	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4
Below Normal (6%)	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4
Dry (13%)	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4
Critical (25%)	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-28-1-20. Mokelumne River at Terminous, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.8	5.2	5.4	5.5	5.8	5.4	5.1	5.0	5.1	5.3	5.2	5.2
20%	4.7	4.8	5.1	5.4	5.5	5.2	4.7	4.7	5.0	5.2	5.1	5.0
30%	4.6	4.8	4.9	5.1	5.0	4.8	4.6	4.7	5.0	5.2	5.1	4.9
40%	4.6	4.7	4.8	4.9	4.8	4.7	4.5	4.7	4.9	5.1	5.0	4.9
50%	4.6	4.6	4.8	4.9	4.7	4.6	4.4	4.6	4.9	5.1	5.0	4.9
60%	4.6	4.6	4.7	4.8	4.6	4.6	4.4	4.6	4.8	5.1	4.9	4.9
70%	4.5	4.6	4.7	4.7	4.6	4.4	4.4	4.6	4.8	5.0	4.9	4.8
80%	4.5	4.5	4.6	4.7	4.5	4.3	4.3	4.5	4.7	5.0	4.8	4.7
90%	4.5	4.4	4.5	4.5	4.4	4.2	4.2	4.4	4.7	4.9	4.8	4.6
Long Term												
Full Simulation Period[a]	4.6	4.7	4.9	5.0	4.9	4.7	4.5	4.7	4.9	5.1	5.0	4.9
Water Year Types[b]												
Wet (31%)	4.8	5.1	5.4	5.4	5.6	5.4	4.9	5.0	5.1	5.3	5.2	5.2
Above Normal (25%)	4.5	4.5	4.8	5.5	5.6	5.0	4.6	4.7	4.7	5.0	4.9	4.7
Below Normal (6%)	4.5	4.6	4.5	5.0	4.8	4.7	4.4	4.5	4.7	4.8	4.8	4.7
Dry (13%)	4.6	4.6	4.7	4.7	4.5	4.5	4.4	4.6	4.9	5.1	5.0	4.8
Critical (25%)	4.6	4.7	4.8	4.7	4.5	4.3	4.3	4.5	4.8	5.1	4.9	4.8

Alternative 4 H4 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	4.7	5.0	5.0	5.4	5.0	4.7	4.6	4.6	4.8	4.7	4.8
20%	4.3	4.4	4.6	4.9	5.1	4.8	4.3	4.3	4.5	4.7	4.6	4.6
30%	4.3	4.4	4.5	4.6	4.6	4.4	4.2	4.3	4.5	4.7	4.6	4.5
40%	4.3	4.3	4.4	4.5	4.4	4.3	4.1	4.3	4.5	4.7	4.6	4.5
50%	4.2	4.2	4.4	4.4	4.3	4.2	4.0	4.2	4.4	4.6	4.6	4.5
60%	4.2	4.2	4.3	4.4	4.2	4.2	4.0	4.2	4.4	4.6	4.5	4.4
70%	4.2	4.2	4.3	4.3	4.2	4.1	4.0	4.1	4.3	4.6	4.4	4.4
80%	4.1	4.1	4.2	4.3	4.1	4.0	4.0	4.1	4.3	4.5	4.4	4.3
90%	4.1	4.0	4.1	4.2	4.0	3.8	3.8	4.0	4.2	4.4	4.4	4.2
Long Term												
Full Simulation Period[a]	4.3	4.3	4.5	4.6	4.5	4.4	4.1	4.3	4.4	4.6	4.6	4.5
Water Year Types[b]												
Wet (31%)	4.4	4.7	4.9	4.9	5.1	5.0	4.5	4.5	4.7	4.8	4.7	4.8
Above Normal (25%)	4.1	4.1	4.4	5.0	5.2	4.6	4.3	4.3	4.3	4.5	4.5	4.3
Below Normal (6%)	4.1	4.2	4.1	4.6	4.4	4.3	4.0	4.1	4.3	4.3	4.3	4.3
Dry (13%)	4.2	4.2	4.3	4.3	4.2	4.1	4.0	4.2	4.5	4.6	4.6	4.4
Critical (25%)	4.2	4.3	4.3	4.3	4.1	3.9	3.9	4.1	4.3	4.6	4.5	4.4

Alternative 4 H4 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.5	-0.4
20%	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.4
30%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4
40%	-0.3	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4
50%	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4
60%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4
70%	-0.3	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4
80%	-0.3	-0.4	-0.4	-0.5	-0.4	-0.4	-0.3	-0.4	-0.4	-0.5	-0.4	-0.4
90%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4
Long Term												
Full Simulation Period[a]	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4
Water Year Types[b]												
Wet (31%)	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.4
Above Normal (25%)	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4
Below Normal (6%)	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4
Dry (13%)	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4
Critical (25%)	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-28-1-21. Mokelumne River at Terminous, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.8	5.2	5.4	5.5	5.8	5.4	5.1	5.0	5.1	5.3	5.2	5.2
20%	4.7	4.8	5.1	5.4	5.5	5.2	4.7	4.7	5.0	5.2	5.1	5.0
30%	4.6	4.8	4.9	5.1	5.0	4.8	4.6	4.7	5.0	5.2	5.1	4.9
40%	4.6	4.7	4.8	4.9	4.8	4.7	4.5	4.7	4.9	5.1	5.0	4.9
50%	4.6	4.6	4.8	4.9	4.7	4.6	4.4	4.6	4.9	5.1	5.0	4.9
60%	4.6	4.6	4.7	4.8	4.6	4.6	4.4	4.6	4.8	5.1	4.9	4.9
70%	4.5	4.6	4.7	4.7	4.6	4.4	4.4	4.6	4.8	5.0	4.9	4.8
80%	4.5	4.5	4.6	4.7	4.5	4.3	4.3	4.5	4.7	5.0	4.8	4.7
90%	4.5	4.4	4.5	4.5	4.4	4.2	4.2	4.4	4.7	4.9	4.8	4.6
Long Term												
Full Simulation Period[a]	4.6	4.7	4.9	5.0	4.9	4.7	4.5	4.7	4.9	5.1	5.0	4.9
Water Year Types[b]												
Wet (31%)	4.8	5.1	5.4	5.4	5.6	5.4	4.9	5.0	5.1	5.3	5.2	5.2
Above Normal (25%)	4.5	4.5	4.8	5.5	5.6	5.0	4.6	4.7	4.7	5.0	4.9	4.7
Below Normal (6%)	4.5	4.6	4.5	5.0	4.8	4.7	4.4	4.5	4.7	4.8	4.8	4.7
Dry (13%)	4.6	4.6	4.7	4.7	4.5	4.5	4.4	4.6	4.9	5.1	5.0	4.8
Critical (25%)	4.6	4.7	4.8	4.7	4.5	4.3	4.3	4.5	4.8	5.1	4.9	4.8

Alternative 5 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	4.7	5.0	5.0	5.4	5.0	4.7	4.6	4.6	4.8	4.7	4.8
20%	4.3	4.4	4.6	4.9	5.0	4.7	4.3	4.3	4.5	4.7	4.7	4.6
30%	4.3	4.4	4.5	4.6	4.6	4.4	4.2	4.3	4.5	4.7	4.6	4.5
40%	4.3	4.3	4.4	4.5	4.4	4.3	4.1	4.2	4.5	4.7	4.6	4.5
50%	4.2	4.3	4.4	4.4	4.3	4.2	4.0	4.2	4.4	4.6	4.5	4.5
60%	4.2	4.2	4.3	4.3	4.2	4.2	4.0	4.2	4.4	4.6	4.5	4.4
70%	4.1	4.2	4.3	4.3	4.2	4.1	4.0	4.1	4.3	4.6	4.4	4.4
80%	4.1	4.1	4.2	4.3	4.1	4.0	3.9	4.1	4.3	4.5	4.4	4.3
90%	4.1	4.0	4.1	4.2	4.0	3.8	3.8	4.0	4.2	4.4	4.4	4.2
Long Term												
Full Simulation Period[a]	4.2	4.3	4.5	4.5	4.5	4.3	4.1	4.3	4.4	4.6	4.6	4.5
Water Year Types[b]												
Wet (31%)	4.4	4.7	4.9	4.9	5.1	5.0	4.5	4.5	4.7	4.8	4.7	4.8
Above Normal (25%)	4.1	4.1	4.4	5.0	5.2	4.6	4.2	4.3	4.3	4.5	4.5	4.3
Below Normal (6%)	4.1	4.2	4.1	4.6	4.4	4.3	4.0	4.1	4.2	4.3	4.3	4.2
Dry (13%)	4.2	4.2	4.3	4.3	4.1	4.1	4.0	4.2	4.5	4.6	4.6	4.4
Critical (25%)	4.2	4.3	4.3	4.3	4.1	3.9	3.9	4.1	4.3	4.6	4.5	4.4

Alternative 5 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.5	-0.4
20%	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4	-0.5	-0.5	-0.5	-0.4	-0.4
30%	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4
40%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4
50%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4
60%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4
70%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4
80%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4
90%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4
Long Term												
Full Simulation Period[a]	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4
Water Year Types[b]												
Wet (31%)	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.5	-0.4
Above Normal (25%)	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4
Below Normal (6%)	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4
Dry (13%)	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4
Critical (25%)	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-28-1-22. Mokelumne River at Terminous, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.8	5.2	5.4	5.5	5.8	5.4	5.1	5.0	5.1	5.3	5.2	5.2
20%	4.7	4.8	5.1	5.4	5.5	5.2	4.7	4.7	5.0	5.2	5.1	5.0
30%	4.6	4.8	4.9	5.1	5.0	4.8	4.6	4.7	5.0	5.2	5.1	4.9
40%	4.6	4.7	4.8	4.9	4.8	4.7	4.5	4.7	4.9	5.1	5.0	4.9
50%	4.6	4.6	4.8	4.9	4.7	4.6	4.4	4.6	4.9	5.1	5.0	4.9
60%	4.6	4.6	4.7	4.8	4.6	4.6	4.4	4.6	4.8	5.1	4.9	4.9
70%	4.5	4.6	4.7	4.7	4.6	4.4	4.4	4.6	4.8	5.0	4.9	4.8
80%	4.5	4.5	4.6	4.7	4.5	4.3	4.3	4.5	4.7	5.0	4.8	4.7
90%	4.5	4.4	4.5	4.5	4.4	4.2	4.2	4.4	4.7	4.9	4.8	4.6
Long Term												
Full Simulation Period[a]	4.6	4.7	4.9	5.0	4.9	4.7	4.5	4.7	4.9	5.1	5.0	4.9
Water Year Types[b]												
Wet (31%)	4.8	5.1	5.4	5.4	5.6	5.4	4.9	5.0	5.1	5.3	5.2	5.2
Above Normal (25%)	4.5	4.5	4.8	5.5	5.6	5.0	4.6	4.7	4.7	5.0	4.9	4.7
Below Normal (6%)	4.5	4.6	4.5	5.0	4.8	4.7	4.4	4.5	4.7	4.8	4.8	4.7
Dry (13%)	4.6	4.6	4.7	4.7	4.5	4.5	4.4	4.6	4.9	5.1	5.0	4.8
Critical (25%)	4.6	4.7	4.8	4.7	4.5	4.3	4.3	4.5	4.8	5.1	4.9	4.8

Alternative 6A,6B,6C (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	4.7	5.0	5.0	5.4	5.0	4.7	4.6	4.6	4.8	4.8	4.8
20%	4.3	4.4	4.7	4.9	5.0	4.7	4.3	4.3	4.5	4.7	4.7	4.6
30%	4.3	4.4	4.5	4.6	4.6	4.4	4.2	4.3	4.5	4.7	4.6	4.5
40%	4.2	4.3	4.5	4.5	4.4	4.3	4.1	4.2	4.4	4.7	4.6	4.5
50%	4.2	4.3	4.4	4.5	4.4	4.2	4.0	4.2	4.4	4.6	4.6	4.5
60%	4.2	4.2	4.4	4.4	4.2	4.2	4.0	4.2	4.4	4.6	4.5	4.4
70%	4.1	4.2	4.3	4.3	4.2	4.1	4.0	4.1	4.3	4.6	4.5	4.4
80%	4.1	4.2	4.3	4.3	4.1	4.0	3.9	4.1	4.3	4.5	4.4	4.3
90%	4.1	4.0	4.1	4.2	4.0	3.9	3.8	4.0	4.2	4.4	4.4	4.2
Long Term												
Full Simulation Period[a]	4.2	4.3	4.5	4.6	4.5	4.4	4.1	4.3	4.4	4.6	4.6	4.5
Water Year Types[b]												
Wet (31%)	4.4	4.7	5.0	4.9	5.1	5.0	4.5	4.5	4.7	4.8	4.8	4.8
Above Normal (25%)	4.1	4.1	4.4	5.0	5.2	4.6	4.2	4.3	4.3	4.5	4.5	4.3
Below Normal (6%)	4.1	4.2	4.1	4.6	4.4	4.3	4.0	4.1	4.2	4.3	4.4	4.3
Dry (13%)	4.2	4.2	4.4	4.3	4.2	4.1	4.0	4.2	4.4	4.6	4.6	4.4
Critical (25%)	4.2	4.3	4.4	4.3	4.1	3.9	3.9	4.1	4.3	4.6	4.5	4.4

Alternative 6A,6B,6C (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.4	-0.4
20%	-0.4	-0.3	-0.4	-0.5	-0.5	-0.4	-0.4	-0.5	-0.5	-0.5	-0.4	-0.4
30%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4
40%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4
50%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4
60%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4
70%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4
80%	-0.4	-0.4	-0.3	-0.5	-0.4	-0.4	-0.3	-0.4	-0.5	-0.5	-0.4	-0.4
90%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.3	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4
Long Term												
Full Simulation Period[a]	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4
Water Year Types[b]												
Wet (31%)	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4
Above Normal (25%)	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4
Below Normal (6%)	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4
Dry (13%)	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4
Critical (25%)	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-28-1-23. Mokelumne River at Terminous, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.8	5.2	5.4	5.5	5.8	5.4	5.1	5.0	5.1	5.3	5.2	5.2
20%	4.7	4.8	5.1	5.4	5.5	5.2	4.7	4.7	5.0	5.2	5.1	5.0
30%	4.6	4.8	4.9	5.1	5.0	4.8	4.6	4.7	5.0	5.2	5.1	4.9
40%	4.6	4.7	4.8	4.9	4.8	4.7	4.5	4.7	4.9	5.1	5.0	4.9
50%	4.6	4.6	4.8	4.9	4.7	4.6	4.4	4.6	4.9	5.1	5.0	4.9
60%	4.6	4.6	4.7	4.8	4.6	4.6	4.4	4.6	4.8	5.1	4.9	4.9
70%	4.5	4.6	4.7	4.7	4.6	4.4	4.4	4.6	4.8	5.0	4.9	4.8
80%	4.5	4.5	4.6	4.7	4.5	4.3	4.3	4.5	4.7	5.0	4.8	4.7
90%	4.5	4.4	4.5	4.5	4.4	4.2	4.2	4.4	4.7	4.9	4.8	4.6
Long Term												
Full Simulation Period[a]	4.6	4.7	4.9	5.0	4.9	4.7	4.5	4.7	4.9	5.1	5.0	4.9
Water Year Types[b]												
Wet (31%)	4.8	5.1	5.4	5.4	5.6	5.4	4.9	5.0	5.1	5.3	5.2	5.2
Above Normal (25%)	4.5	4.5	4.8	5.5	5.6	5.0	4.6	4.7	4.7	5.0	4.9	4.7
Below Normal (6%)	4.5	4.6	4.5	5.0	4.8	4.7	4.4	4.5	4.7	4.8	4.8	4.7
Dry (13%)	4.6	4.6	4.7	4.7	4.5	4.5	4.4	4.6	4.9	5.1	5.0	4.8
Critical (25%)	4.6	4.7	4.8	4.7	4.5	4.3	4.3	4.5	4.8	5.1	4.9	4.8

Alternative 7 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	4.8	5.0	5.0	5.4	5.0	4.7	4.6	4.6	4.8	4.7	4.8
20%	4.3	4.4	4.7	4.9	5.0	4.7	4.3	4.3	4.5	4.7	4.6	4.5
30%	4.3	4.4	4.5	4.6	4.6	4.4	4.2	4.3	4.5	4.7	4.6	4.5
40%	4.2	4.3	4.5	4.5	4.4	4.3	4.1	4.2	4.4	4.6	4.6	4.5
50%	4.2	4.3	4.4	4.4	4.4	4.2	4.0	4.2	4.4	4.6	4.5	4.4
60%	4.2	4.2	4.4	4.4	4.2	4.2	4.0	4.2	4.4	4.6	4.5	4.4
70%	4.1	4.2	4.3	4.3	4.2	4.1	4.0	4.1	4.3	4.5	4.4	4.4
80%	4.1	4.2	4.3	4.3	4.1	4.0	3.9	4.1	4.3	4.5	4.4	4.3
90%	4.1	4.0	4.1	4.2	4.0	3.9	3.8	4.0	4.2	4.4	4.4	4.2
Long Term												
Full Simulation Period[a]	4.2	4.3	4.5	4.6	4.5	4.4	4.1	4.3	4.4	4.6	4.5	4.5
Water Year Types[b]												
Wet (31%)	4.4	4.7	5.0	4.9	5.1	5.0	4.5	4.5	4.7	4.8	4.7	4.8
Above Normal (25%)	4.1	4.1	4.4	5.0	5.2	4.6	4.2	4.3	4.3	4.5	4.5	4.3
Below Normal (6%)	4.1	4.2	4.1	4.6	4.4	4.3	4.0	4.1	4.2	4.3	4.3	4.2
Dry (13%)	4.2	4.2	4.4	4.3	4.2	4.1	4.0	4.2	4.4	4.6	4.5	4.4
Critical (25%)	4.2	4.3	4.4	4.3	4.1	3.9	3.9	4.1	4.3	4.6	4.5	4.4

Alternative 7 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.5	-0.4
20%	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.4
30%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4
40%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.4
50%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4
60%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4
70%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4
80%	-0.4	-0.4	-0.3	-0.5	-0.4	-0.4	-0.3	-0.4	-0.5	-0.5	-0.4	-0.4
90%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.3	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4
Long Term												
Full Simulation Period[a]	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.4
Water Year Types[b]												
Wet (31%)	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.4
Above Normal (25%)	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4
Below Normal (6%)	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.4
Dry (13%)	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.4
Critical (25%)	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-28-1-24. Mokelumne River at Terminous, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.8	5.2	5.4	5.5	5.8	5.4	5.1	5.0	5.1	5.3	5.2	5.2
20%	4.7	4.8	5.1	5.4	5.5	5.2	4.7	4.7	5.0	5.2	5.1	5.0
30%	4.6	4.8	4.9	5.1	5.0	4.8	4.6	4.7	5.0	5.2	5.1	4.9
40%	4.6	4.7	4.8	4.9	4.8	4.7	4.5	4.7	4.9	5.1	5.0	4.9
50%	4.6	4.6	4.8	4.9	4.7	4.6	4.4	4.6	4.9	5.1	5.0	4.9
60%	4.6	4.6	4.7	4.8	4.6	4.6	4.4	4.6	4.8	5.1	4.9	4.9
70%	4.5	4.6	4.7	4.7	4.6	4.4	4.4	4.6	4.8	5.0	4.9	4.8
80%	4.5	4.5	4.6	4.7	4.5	4.3	4.3	4.5	4.7	5.0	4.8	4.7
90%	4.5	4.4	4.5	4.5	4.4	4.2	4.2	4.4	4.7	4.9	4.8	4.6
Long Term												
Full Simulation Period[a]	4.6	4.7	4.9	5.0	4.9	4.7	4.5	4.7	4.9	5.1	5.0	4.9
Water Year Types[b]												
Wet (31%)	4.8	5.1	5.4	5.4	5.6	5.4	4.9	5.0	5.1	5.3	5.2	5.2
Above Normal (25%)	4.5	4.5	4.8	5.5	5.6	5.0	4.6	4.7	4.7	5.0	4.9	4.7
Below Normal (6%)	4.5	4.6	4.5	5.0	4.8	4.7	4.4	4.5	4.7	4.8	4.8	4.7
Dry (13%)	4.6	4.6	4.7	4.7	4.5	4.5	4.4	4.6	4.9	5.1	5.0	4.8
Critical (25%)	4.6	4.7	4.8	4.7	4.5	4.3	4.3	4.5	4.8	5.1	4.9	4.8

Alternative 8 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	4.8	5.0	5.0	5.4	5.0	4.7	4.6	4.6	4.8	4.7	4.8
20%	4.3	4.4	4.7	4.9	5.1	4.7	4.3	4.3	4.5	4.7	4.6	4.5
30%	4.3	4.4	4.5	4.6	4.6	4.4	4.2	4.3	4.5	4.7	4.6	4.5
40%	4.2	4.3	4.5	4.5	4.4	4.3	4.1	4.3	4.4	4.6	4.6	4.5
50%	4.2	4.3	4.4	4.5	4.4	4.3	4.0	4.2	4.4	4.6	4.5	4.4
60%	4.2	4.2	4.3	4.4	4.2	4.2	4.0	4.2	4.4	4.6	4.5	4.4
70%	4.1	4.2	4.3	4.3	4.2	4.1	4.0	4.1	4.3	4.5	4.4	4.4
80%	4.1	4.2	4.3	4.3	4.1	4.0	3.9	4.1	4.3	4.5	4.4	4.3
90%	4.1	4.0	4.1	4.2	4.1	3.9	3.8	4.0	4.2	4.4	4.4	4.2
Long Term												
Full Simulation Period[a]	4.2	4.3	4.5	4.6	4.5	4.4	4.1	4.3	4.4	4.6	4.5	4.5
Water Year Types[b]												
Wet (31%)	4.4	4.7	5.0	4.9	5.1	5.0	4.5	4.5	4.7	4.8	4.7	4.8
Above Normal (25%)	4.1	4.1	4.4	5.0	5.2	4.6	4.2	4.3	4.3	4.5	4.4	4.3
Below Normal (6%)	4.1	4.2	4.1	4.6	4.4	4.3	4.0	4.1	4.2	4.3	4.3	4.2
Dry (13%)	4.2	4.2	4.4	4.3	4.2	4.2	4.0	4.2	4.4	4.6	4.5	4.4
Critical (25%)	4.2	4.3	4.4	4.3	4.2	3.9	3.9	4.1	4.3	4.6	4.5	4.4

Alternative 8 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.4
20%	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.4
30%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4
40%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.4
50%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4
60%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4
70%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4
80%	-0.4	-0.4	-0.3	-0.5	-0.4	-0.3	-0.3	-0.4	-0.5	-0.5	-0.4	-0.4
90%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.3	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4
Long Term												
Full Simulation Period[a]	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.4
Water Year Types[b]												
Wet (31%)	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.4
Above Normal (25%)	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4
Below Normal (6%)	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.4
Dry (13%)	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.3	-0.4	-0.5	-0.5	-0.5	-0.4
Critical (25%)	-0.4	-0.4	-0.4	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-28-1-25. Mokelumne River at Terminous, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.8	5.2	5.4	5.5	5.8	5.4	5.1	5.0	5.1	5.3	5.2	5.2
20%	4.7	4.8	5.1	5.4	5.5	5.2	4.7	4.7	5.0	5.2	5.1	5.0
30%	4.6	4.8	4.9	5.1	5.0	4.8	4.6	4.7	5.0	5.2	5.1	4.9
40%	4.6	4.7	4.8	4.9	4.8	4.7	4.5	4.7	4.9	5.1	5.0	4.9
50%	4.6	4.6	4.8	4.9	4.7	4.6	4.4	4.6	4.9	5.1	5.0	4.9
60%	4.6	4.6	4.7	4.8	4.6	4.6	4.4	4.6	4.8	5.1	4.9	4.9
70%	4.5	4.6	4.7	4.7	4.6	4.4	4.4	4.6	4.8	5.0	4.9	4.8
80%	4.5	4.5	4.6	4.7	4.5	4.3	4.3	4.5	4.7	5.0	4.8	4.7
90%	4.5	4.4	4.5	4.5	4.4	4.2	4.2	4.4	4.7	4.9	4.8	4.6
Long Term												
Full Simulation Period[a]	4.6	4.7	4.9	5.0	4.9	4.7	4.5	4.7	4.9	5.1	5.0	4.9
Water Year Types[b]												
Wet (31%)	4.8	5.1	5.4	5.4	5.6	5.4	4.9	5.0	5.1	5.3	5.2	5.2
Above Normal (25%)	4.5	4.5	4.8	5.5	5.6	5.0	4.6	4.7	4.7	5.0	4.9	4.7
Below Normal (6%)	4.5	4.6	4.5	5.0	4.8	4.7	4.4	4.5	4.7	4.8	4.8	4.7
Dry (13%)	4.6	4.6	4.7	4.7	4.5	4.5	4.4	4.6	4.9	5.1	5.0	4.8
Critical (25%)	4.6	4.7	4.8	4.7	4.5	4.3	4.3	4.5	4.8	5.1	4.9	4.8

Alternative 9 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	4.7	4.9	5.0	5.3	4.9	4.6	4.6	4.6	4.8	4.7	4.8
20%	4.3	4.4	4.6	4.8	5.0	4.7	4.3	4.3	4.6	4.7	4.6	4.5
30%	4.2	4.3	4.5	4.6	4.5	4.4	4.2	4.2	4.5	4.7	4.6	4.5
40%	4.2	4.3	4.4	4.5	4.4	4.3	4.1	4.2	4.4	4.6	4.6	4.4
50%	4.2	4.2	4.4	4.5	4.3	4.3	4.0	4.2	4.4	4.6	4.5	4.4
60%	4.1	4.2	4.3	4.4	4.2	4.2	4.0	4.2	4.3	4.6	4.5	4.4
70%	4.1	4.1	4.3	4.3	4.2	4.1	4.0	4.2	4.3	4.5	4.4	4.3
80%	4.1	4.1	4.2	4.2	4.1	4.0	4.0	4.1	4.3	4.5	4.4	4.2
90%	4.1	4.0	4.1	4.1	4.0	3.9	3.8	4.0	4.2	4.4	4.4	4.2
Long Term												
Full Simulation Period[a]	4.2	4.3	4.4	4.5	4.5	4.3	4.1	4.3	4.4	4.6	4.5	4.4
Water Year Types[b]												
Wet (31%)	4.3	4.6	4.9	4.9	5.1	5.0	4.5	4.5	4.7	4.8	4.7	4.8
Above Normal (25%)	4.1	4.1	4.3	5.0	5.1	4.6	4.2	4.2	4.2	4.5	4.4	4.3
Below Normal (6%)	4.1	4.2	4.1	4.6	4.4	4.3	4.0	4.1	4.2	4.3	4.3	4.2
Dry (13%)	4.2	4.2	4.3	4.3	4.2	4.2	4.0	4.3	4.5	4.6	4.5	4.3
Critical (25%)	4.2	4.2	4.3	4.2	4.1	3.9	4.0	4.1	4.3	4.6	4.5	4.4

Alternative 9 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.4	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.4	-0.5	-0.5	-0.5	-0.4
20%	-0.4	-0.4	-0.5	-0.6	-0.5	-0.5	-0.4	-0.4	-0.5	-0.5	-0.5	-0.5
30%	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4	-0.5	-0.5	-0.5	-0.4	-0.4
40%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.4
50%	-0.4	-0.4	-0.5	-0.4	-0.4	-0.4	-0.3	-0.4	-0.5	-0.5	-0.5	-0.4
60%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.5
70%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4
80%	-0.4	-0.4	-0.4	-0.5	-0.4	-0.3	-0.3	-0.4	-0.5	-0.5	-0.4	-0.4
90%	-0.4	-0.4	-0.4	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4
Long Term												
Full Simulation Period[a]	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.4
Water Year Types[b]												
Wet (31%)	-0.4	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5
Above Normal (25%)	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.4	-0.5	-0.5	-0.5	-0.5	-0.4
Below Normal (6%)	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.5	-0.4
Dry (13%)	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.3	-0.4	-0.5	-0.5	-0.5	-0.4
Critical (25%)	-0.4	-0.4	-0.4	-0.4	-0.4	-0.3	-0.3	-0.4	-0.4	-0.5	-0.4	-0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-28-2-1. Mokelumne River at Terminous, Monthly Averaged Daily Minimum Elevation

Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	-0.5	-0.4	-0.1	0.1	0.8	0.4	0.0	-0.5	-0.7	-0.5	-0.5	-0.3
20%	-0.7	-0.7	-0.7	-0.2	0.1	0.0	-0.7	-0.8	-0.8	-0.7	-0.5	-0.5
30%	-0.8	-0.8	-0.9	-0.4	-0.3	-0.3	-0.8	-0.8	-0.9	-0.7	-0.5	-0.5
40%	-0.8	-0.9	-0.9	-0.7	-0.6	-0.6	-0.8	-0.9	-0.9	-0.8	-0.6	-0.6
50%	-0.8	-0.9	-0.9	-0.8	-0.8	-0.6	-0.9	-0.9	-0.9	-0.8	-0.6	-0.6
60%	-0.8	-1.0	-0.9	-0.9	-0.8	-0.7	-0.9	-1.0	-0.9	-0.8	-0.6	-0.6
70%	-0.8	-1.0	-1.0	-0.9	-0.8	-0.9	-1.0	-1.0	-0.9	-0.8	-0.7	-0.7
80%	-0.9	-1.1	-1.1	-1.0	-1.0	-1.0	-1.0	-1.1	-0.9	-0.9	-0.7	-0.7
90%	-0.9	-1.1	-1.2	-1.1	-1.0	-1.0	-1.2	-1.1	-1.0	-0.9	-0.8	-0.7
Long Term												
Full Simulation Period[a]	-0.8	-0.8	-0.8	-0.6	-0.4	-0.4	-0.7	-0.8	-0.8	-0.7	-0.6	-0.5
Water Year Types[b]												
Wet (31%)	-0.6	-0.4	-0.2	-0.2	0.4	0.5	-0.2	-0.5	-0.5	-0.5	-0.5	-0.3
Above Normal (25%)	-0.8	-1.0	-0.9	0.1	0.3	0.0	-0.5	-0.7	-0.9	-0.7	-0.6	-0.7
Below Normal (6%)	-0.7	-0.9	-1.1	-0.6	-0.5	-0.5	-0.8	-0.9	-0.9	-0.9	-0.7	-0.7
Dry (13%)	-0.9	-1.0	-1.0	-1.0	-0.9	-0.8	-1.0	-1.0	-0.9	-0.8	-0.7	-0.7
Critical (25%)	-0.8	-0.9	-1.0	-1.0	-0.9	-1.0	-1.0	-1.1	-1.0	-0.8	-0.6	-0.6

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.8	0.9	1.1	1.4	2.1	1.6	1.3	0.8	0.6	0.8	0.9	1.0
20%	0.6	0.5	0.6	1.1	1.4	1.4	0.6	0.5	0.5	0.7	0.8	0.9
30%	0.6	0.5	0.5	0.9	1.0	1.0	0.5	0.4	0.4	0.6	0.7	0.8
40%	0.6	0.5	0.4	0.6	0.7	0.7	0.5	0.4	0.4	0.6	0.7	0.8
50%	0.6	0.4	0.4	0.5	0.5	0.7	0.4	0.4	0.4	0.6	0.7	0.7
60%	0.5	0.3	0.4	0.4	0.5	0.6	0.4	0.3	0.4	0.5	0.6	0.7
70%	0.5	0.3	0.3	0.4	0.5	0.4	0.3	0.3	0.4	0.5	0.6	0.7
80%	0.5	0.3	0.2	0.2	0.3	0.3	0.3	0.2	0.4	0.5	0.6	0.7
90%	0.5	0.2	0.1	0.2	0.3	0.2	0.1	0.2	0.3	0.5	0.5	0.6
Long Term												
Full Simulation Period[a]	0.6	0.5	0.5	0.7	0.9	0.9	0.5	0.4	0.4	0.6	0.7	0.8
Water Year Types[b]												
Wet (31%)	0.7	0.8	1.1	1.1	1.7	1.8	1.0	0.7	0.7	0.8	0.8	1.0
Above Normal (25%)	0.6	0.3	0.5	1.4	1.7	1.3	0.7	0.6	0.4	0.6	0.7	0.7
Below Normal (6%)	0.6	0.5	0.2	0.7	0.8	0.8	0.5	0.4	0.4	0.4	0.6	0.6
Dry (13%)	0.5	0.3	0.3	0.3	0.4	0.5	0.3	0.3	0.4	0.5	0.6	0.7
Critical (25%)	0.5	0.4	0.3	0.3	0.4	0.3	0.3	0.2	0.3	0.6	0.7	0.7

No Action Alternative (LLT) minus Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.3	1.2	1.2	1.3	1.3	1.3	1.3	1.2	1.3	1.3	1.3	1.3
20%	1.4	1.2	1.3	1.3	1.4	1.3	1.3	1.3	1.3	1.3	1.3	1.3
30%	1.4	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
40%	1.4	1.4	1.3	1.3	1.3	1.3	1.3	1.2	1.3	1.4	1.3	1.4
50%	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
60%	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
70%	1.4	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
80%	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.4
90%	1.4	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Long Term												
Full Simulation Period[a]	1.4	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Water Year Types[b]												
Wet (31%)	1.3	1.2	1.3	1.3	1.3	1.3	1.3	1.2	1.2	1.3	1.3	1.3
Above Normal (25%)	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.4
Below Normal (6%)	1.4	1.4	1.3	1.3	1.3	1.3	1.3	1.2	1.3	1.3	1.4	1.3
Dry (13%)	1.4	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Critical (25%)	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

Table C-28-2-2. Mokelumne River at Terminous, Monthly Averaged Daily Minimum Elevation

Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.5	-0.4	-0.1	0.1	0.8	0.4	0.0	-0.5	-0.7	-0.5	-0.5	-0.3
20%	-0.7	-0.7	-0.7	-0.2	0.1	0.0	-0.7	-0.8	-0.8	-0.7	-0.5	-0.5
30%	-0.8	-0.8	-0.9	-0.4	-0.3	-0.3	-0.8	-0.8	-0.9	-0.7	-0.5	-0.5
40%	-0.8	-0.9	-0.9	-0.7	-0.6	-0.6	-0.8	-0.9	-0.9	-0.8	-0.6	-0.6
50%	-0.8	-0.9	-0.9	-0.8	-0.8	-0.6	-0.9	-0.9	-0.9	-0.8	-0.6	-0.6
60%	-0.8	-1.0	-0.9	-0.9	-0.8	-0.7	-0.9	-1.0	-0.9	-0.8	-0.6	-0.6
70%	-0.8	-1.0	-1.0	-0.9	-0.8	-0.9	-1.0	-1.0	-0.9	-0.8	-0.7	-0.7
80%	-0.9	-1.1	-1.1	-1.0	-1.0	-1.0	-1.0	-1.1	-0.9	-0.9	-0.7	-0.7
90%	-0.9	-1.1	-1.2	-1.1	-1.0	-1.0	-1.2	-1.1	-1.0	-0.9	-0.8	-0.7
Long Term												
Full Simulation Period[a]	-0.8	-0.8	-0.8	-0.6	-0.4	-0.4	-0.7	-0.8	-0.8	-0.7	-0.6	-0.5
Water Year Types[b]												
Wet (31%)	-0.6	-0.4	-0.2	-0.2	0.4	0.5	-0.2	-0.5	-0.5	-0.5	-0.5	-0.3
Above Normal (25%)	-0.8	-1.0	-0.9	0.1	0.3	0.0	-0.5	-0.7	-0.9	-0.7	-0.6	-0.7
Below Normal (6%)	-0.7	-0.9	-1.1	-0.6	-0.5	-0.5	-0.8	-0.9	-0.9	-0.9	-0.7	-0.7
Dry (13%)	-0.9	-1.0	-1.0	-1.0	-0.9	-0.8	-1.0	-1.0	-0.9	-0.8	-0.7	-0.7
Critical (25%)	-0.8	-0.9	-1.0	-1.0	-0.9	-1.0	-1.0	-1.1	-1.0	-0.8	-0.6	-0.6

Alternative 1A,1B,1C (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.2	1.4	1.6	1.8	2.6	2.1	1.7	1.2	1.1	1.3	1.3	1.4
20%	1.1	1.0	1.1	1.6	1.9	1.8	1.0	1.0	1.0	1.1	1.3	1.3
30%	1.1	1.0	1.0	1.3	1.5	1.5	0.9	0.9	0.9	1.1	1.2	1.2
40%	1.0	0.9	0.9	1.1	1.2	1.2	0.9	0.9	0.9	1.1	1.2	1.2
50%	1.0	0.9	0.9	1.0	1.0	1.1	0.9	0.8	0.9	1.1	1.1	1.2
60%	1.0	0.8	0.9	0.9	1.0	1.0	0.8	0.8	0.9	1.0	1.1	1.2
70%	1.0	0.8	0.8	0.9	0.9	0.9	0.8	0.8	0.9	1.0	1.1	1.1
80%	1.0	0.8	0.7	0.8	0.8	0.7	0.7	0.7	0.8	1.0	1.1	1.1
90%	0.9	0.7	0.6	0.7	0.8	0.7	0.6	0.6	0.8	0.9	1.0	1.0
Long Term												
Full Simulation Period[a]	1.1	1.0	1.0	1.2	1.4	1.3	1.0	0.9	0.9	1.1	1.2	1.2
Water Year Types[b]												
Wet (31%)	1.2	1.3	1.6	1.6	2.2	2.2	1.4	1.2	1.2	1.3	1.3	1.4
Above Normal (25%)	1.0	0.8	0.9	1.8	2.2	1.7	1.1	1.0	0.9	1.0	1.2	1.1
Below Normal (6%)	1.1	0.9	0.7	1.2	1.3	1.3	0.9	0.8	0.9	1.0	1.1	1.1
Dry (13%)	1.0	0.8	0.8	0.8	0.8	1.0	0.8	0.8	0.9	1.0	1.1	1.1
Critical (25%)	1.0	0.9	0.8	0.8	0.9	0.8	0.7	0.7	0.8	1.1	1.2	1.2

Alternative 1A,1B,1C (LLT) minus Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.6	1.7	1.8	1.8	1.7
20%	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.8	1.7	1.8	1.8	1.8
30%	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.8	1.8	1.8	1.8
40%	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.8	1.8	1.8	1.8
50%	1.8	1.8	1.8	1.8	1.8	1.7	1.8	1.7	1.8	1.8	1.8	1.8
60%	1.8	1.8	1.8	1.8	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8
70%	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.8	1.8	1.8	1.8	1.8
80%	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.8	1.8	1.8	1.8	1.8
90%	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.8	1.8	1.8
Long Term												
Full Simulation Period[a]	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.8	1.8	1.8	1.8
Water Year Types[b]												
Wet (31%)	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.6	1.7	1.7	1.8	1.7
Above Normal (25%)	1.8	1.8	1.8	1.7	1.8	1.8	1.7	1.7	1.7	1.8	1.8	1.8
Below Normal (6%)	1.8	1.8	1.8	1.8	1.7	1.8	1.7	1.7	1.8	1.8	1.8	1.8
Dry (13%)	1.8	1.8	1.8	1.8	1.8	1.7	1.8	1.8	1.8	1.8	1.8	1.8
Critical (25%)	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-28-2-3. Mokelumne River at Terminous, Monthly Averaged Daily Minimum Elevation

Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.5	-0.4	-0.1	0.1	0.8	0.4	0.0	-0.5	-0.7	-0.5	-0.5	-0.3
20%	-0.7	-0.7	-0.7	-0.2	0.1	0.0	-0.7	-0.8	-0.8	-0.7	-0.5	-0.5
30%	-0.8	-0.8	-0.9	-0.4	-0.3	-0.3	-0.8	-0.8	-0.9	-0.7	-0.5	-0.5
40%	-0.8	-0.9	-0.9	-0.7	-0.6	-0.6	-0.8	-0.9	-0.9	-0.8	-0.6	-0.6
50%	-0.8	-0.9	-0.9	-0.8	-0.8	-0.6	-0.9	-0.9	-0.9	-0.8	-0.6	-0.6
60%	-0.8	-1.0	-0.9	-0.9	-0.8	-0.7	-0.9	-1.0	-0.9	-0.8	-0.6	-0.6
70%	-0.8	-1.0	-1.0	-0.9	-0.8	-0.9	-1.0	-1.0	-0.9	-0.8	-0.7	-0.7
80%	-0.9	-1.1	-1.1	-1.0	-1.0	-1.0	-1.0	-1.1	-0.9	-0.9	-0.7	-0.7
90%	-0.9	-1.1	-1.2	-1.1	-1.0	-1.0	-1.2	-1.1	-1.0	-0.9	-0.8	-0.7
Long Term												
Full Simulation Period[a]	-0.8	-0.8	-0.8	-0.6	-0.4	-0.4	-0.7	-0.8	-0.8	-0.7	-0.6	-0.5
Water Year Types[b]												
Wet (31%)	-0.6	-0.4	-0.2	-0.2	0.4	0.5	-0.2	-0.5	-0.5	-0.5	-0.5	-0.3
Above Normal (25%)	-0.8	-1.0	-0.9	0.1	0.3	0.0	-0.5	-0.7	-0.9	-0.7	-0.6	-0.7
Below Normal (6%)	-0.7	-0.9	-1.1	-0.6	-0.5	-0.5	-0.8	-0.9	-0.9	-0.9	-0.7	-0.7
Dry (13%)	-0.9	-1.0	-1.0	-1.0	-0.9	-0.8	-1.0	-1.0	-0.9	-0.8	-0.7	-0.7
Critical (25%)	-0.8	-0.9	-1.0	-1.0	-0.9	-1.0	-1.0	-1.1	-1.0	-0.8	-0.6	-0.6

Alternative 2A,2B,2C (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.2	1.4	1.6	1.8	2.6	2.1	1.7	1.2	1.1	1.3	1.3	1.5
20%	1.1	1.0	1.0	1.6	1.9	1.8	1.1	1.0	0.9	1.1	1.3	1.3
30%	1.1	1.0	1.0	1.3	1.5	1.4	0.9	0.9	0.9	1.1	1.2	1.3
40%	1.1	1.0	1.0	1.1	1.2	1.2	0.9	0.9	0.9	1.1	1.2	1.2
50%	1.0	0.9	0.9	1.0	1.0	1.1	0.9	0.8	0.9	1.0	1.1	1.2
60%	1.0	0.8	0.9	1.0	1.0	1.0	0.8	0.8	0.9	1.0	1.1	1.2
70%	1.0	0.8	0.8	0.9	0.9	0.9	0.8	0.8	0.8	1.0	1.1	1.2
80%	1.0	0.8	0.7	0.8	0.8	0.7	0.8	0.7	0.8	0.9	1.0	1.1
90%	0.9	0.8	0.6	0.8	0.8	0.7	0.6	0.6	0.8	0.9	1.0	1.0
Long Term												
Full Simulation Period[a]	1.1	1.0	1.0	1.2	1.4	1.3	1.0	0.9	0.9	1.1	1.2	1.3
Water Year Types[b]												
Wet (31%)	1.2	1.3	1.6	1.6	2.2	2.2	1.5	1.2	1.2	1.3	1.3	1.5
Above Normal (25%)	1.0	0.8	1.0	1.8	2.1	1.7	1.1	1.0	0.9	1.0	1.1	1.2
Below Normal (6%)	1.1	0.9	0.7	1.2	1.2	1.2	0.9	0.8	0.9	0.9	1.0	1.1
Dry (13%)	1.0	0.8	0.9	0.8	0.9	0.9	0.8	0.8	0.9	1.0	1.1	1.1
Critical (25%)	1.0	0.9	0.8	0.9	0.9	0.8	0.7	0.7	0.8	1.1	1.1	1.2

Alternative 2A,2B,2C (LLT) minus Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.8	1.7	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.8	1.9
20%	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.8	1.7	1.8	1.8	1.7
30%	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.8	1.8	1.7	1.8
40%	1.8	1.9	1.8	1.8	1.8	1.7	1.7	1.7	1.8	1.8	1.8	1.8
50%	1.8	1.8	1.8	1.8	1.8	1.7	1.8	1.8	1.8	1.8	1.8	1.8
60%	1.8	1.8	1.8	1.8	1.7	1.7	1.8	1.8	1.8	1.8	1.7	1.8
70%	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.8	1.8	1.8	1.8	1.8
80%	1.8	1.8	1.8	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
90%	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.8	1.8	1.8
Long Term												
Full Simulation Period[a]	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.8	1.8	1.8
Water Year Types[b]												
Wet (31%)	1.8	1.7	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.8
Above Normal (25%)	1.8	1.8	1.8	1.7	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.8
Below Normal (6%)	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.8
Dry (13%)	1.8	1.8	1.8	1.8	1.8	1.7	1.8	1.8	1.8	1.8	1.8	1.8
Critical (25%)	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-28-2-4. Mokelumne River at Terminous, Monthly Averaged Daily Minimum Elevation

Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.5	-0.4	-0.1	0.1	0.8	0.4	0.0	-0.5	-0.7	-0.5	-0.5	-0.3
20%	-0.7	-0.7	-0.7	-0.2	0.1	0.0	-0.7	-0.8	-0.8	-0.7	-0.5	-0.5
30%	-0.8	-0.8	-0.9	-0.4	-0.3	-0.3	-0.8	-0.8	-0.9	-0.7	-0.5	-0.5
40%	-0.8	-0.9	-0.9	-0.7	-0.6	-0.6	-0.8	-0.9	-0.9	-0.8	-0.6	-0.6
50%	-0.8	-0.9	-0.9	-0.8	-0.8	-0.6	-0.9	-0.9	-0.9	-0.8	-0.6	-0.6
60%	-0.8	-1.0	-0.9	-0.9	-0.8	-0.7	-0.9	-1.0	-0.9	-0.8	-0.6	-0.6
70%	-0.8	-1.0	-1.0	-0.9	-0.8	-0.9	-1.0	-1.0	-0.9	-0.8	-0.7	-0.7
80%	-0.9	-1.1	-1.1	-1.0	-1.0	-1.0	-1.0	-1.1	-0.9	-0.9	-0.7	-0.7
90%	-0.9	-1.1	-1.2	-1.1	-1.0	-1.0	-1.2	-1.1	-1.0	-0.9	-0.8	-0.7
Long Term												
Full Simulation Period[a]	-0.8	-0.8	-0.8	-0.6	-0.4	-0.4	-0.7	-0.8	-0.8	-0.7	-0.6	-0.5
Water Year Types[b]												
Wet (31%)	-0.6	-0.4	-0.2	-0.2	0.4	0.5	-0.2	-0.5	-0.5	-0.5	-0.5	-0.3
Above Normal (25%)	-0.8	-1.0	-0.9	0.1	0.3	0.0	-0.5	-0.7	-0.9	-0.7	-0.6	-0.7
Below Normal (6%)	-0.7	-0.9	-1.1	-0.6	-0.5	-0.5	-0.8	-0.9	-0.9	-0.9	-0.7	-0.7
Dry (13%)	-0.9	-1.0	-1.0	-1.0	-0.9	-0.8	-1.0	-1.0	-0.9	-0.8	-0.7	-0.7
Critical (25%)	-0.8	-0.9	-1.0	-1.0	-0.9	-1.0	-1.0	-1.1	-1.0	-0.8	-0.6	-0.6

Alternative 3 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.3	1.4	1.6	1.8	2.6	2.1	1.7	1.2	1.1	1.3	1.3	1.4
20%	1.1	1.0	1.0	1.6	1.9	1.8	1.0	1.0	0.9	1.1	1.3	1.3
30%	1.1	1.0	1.0	1.3	1.5	1.4	0.9	0.9	0.9	1.1	1.2	1.2
40%	1.0	0.9	0.9	1.1	1.2	1.1	0.9	0.9	0.9	1.1	1.2	1.2
50%	1.0	0.9	0.9	1.0	1.0	1.1	0.9	0.8	0.9	1.1	1.2	1.2
60%	1.0	0.8	0.9	0.9	1.0	1.0	0.8	0.8	0.9	1.0	1.1	1.2
70%	1.0	0.8	0.8	0.9	0.9	0.9	0.8	0.8	0.9	1.0	1.1	1.1
80%	1.0	0.8	0.7	0.8	0.8	0.7	0.7	0.7	0.8	1.0	1.1	1.1
90%	0.9	0.7	0.6	0.8	0.8	0.7	0.6	0.6	0.8	0.9	1.0	1.0
Long Term												
Full Simulation Period[a]	1.1	1.0	1.0	1.2	1.4	1.3	1.0	0.9	0.9	1.1	1.2	1.2
Water Year Types[b]												
Wet (31%)	1.2	1.3	1.6	1.6	2.2	2.2	1.4	1.2	1.2	1.3	1.3	1.4
Above Normal (25%)	1.0	0.8	0.9	1.8	2.1	1.7	1.1	1.0	0.9	1.0	1.2	1.1
Below Normal (6%)	1.1	0.9	0.7	1.2	1.2	1.3	0.9	0.8	0.9	1.0	1.1	1.1
Dry (13%)	1.0	0.8	0.8	0.8	0.8	1.0	0.8	0.8	0.9	1.0	1.1	1.1
Critical (25%)	1.0	0.9	0.8	0.9	0.9	0.8	0.7	0.7	0.8	1.1	1.2	1.2

Alternative 3 (LLT) minus Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.8	1.7	1.8	1.7	1.7	1.7	1.7	1.6	1.7	1.8	1.8	1.7
20%	1.8	1.7	1.8	1.8	1.8	1.8	1.7	1.8	1.7	1.8	1.8	1.8
30%	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.8
40%	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.8	1.8	1.8	1.8
50%	1.8	1.8	1.8	1.8	1.8	1.7	1.8	1.7	1.8	1.8	1.8	1.8
60%	1.8	1.8	1.8	1.8	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8
70%	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.8	1.8	1.8	1.8	1.8
80%	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.8	1.8	1.8	1.8	1.8
90%	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Long Term												
Full Simulation Period[a]	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.8	1.8	1.8	1.8
Water Year Types[b]												
Wet (31%)	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.6	1.7	1.7	1.8	1.7
Above Normal (25%)	1.8	1.8	1.8	1.7	1.8	1.8	1.7	1.7	1.7	1.8	1.8	1.8
Below Normal (6%)	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.8
Dry (13%)	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.8	1.8	1.8	1.8	1.8
Critical (25%)	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-28-2-5. Mokelumne River at Terminous, Monthly Averaged Daily Minimum Elevation

Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	-0.5	-0.4	-0.1	0.1	0.8	0.4	0.0	-0.5	-0.7	-0.5	-0.5	-0.3
20%	-0.7	-0.7	-0.7	-0.2	0.1	0.0	-0.7	-0.8	-0.8	-0.7	-0.5	-0.5
30%	-0.8	-0.8	-0.9	-0.4	-0.3	-0.3	-0.8	-0.8	-0.9	-0.7	-0.5	-0.5
40%	-0.8	-0.9	-0.9	-0.7	-0.6	-0.6	-0.8	-0.9	-0.9	-0.8	-0.6	-0.6
50%	-0.8	-0.9	-0.9	-0.8	-0.8	-0.6	-0.9	-0.9	-0.9	-0.8	-0.6	-0.6
60%	-0.8	-1.0	-0.9	-0.9	-0.8	-0.7	-0.9	-1.0	-0.9	-0.8	-0.6	-0.6
70%	-0.8	-1.0	-1.0	-0.9	-0.8	-0.9	-1.0	-1.0	-0.9	-0.8	-0.7	-0.7
80%	-0.9	-1.1	-1.1	-1.0	-1.0	-1.0	-1.0	-1.1	-0.9	-0.9	-0.7	-0.7
90%	-0.9	-1.1	-1.2	-1.1	-1.0	-1.0	-1.2	-1.1	-1.0	-0.9	-0.8	-0.7
Long Term												
Full Simulation Period[a]	-0.8	-0.8	-0.8	-0.6	-0.4	-0.4	-0.7	-0.8	-0.8	-0.7	-0.6	-0.5
Water Year Types[b]												
Wet (31%)	-0.6	-0.4	-0.2	-0.2	0.4	0.5	-0.2	-0.5	-0.5	-0.5	-0.5	-0.3
Above Normal (25%)	-0.8	-1.0	-0.9	0.1	0.3	0.0	-0.5	-0.7	-0.9	-0.7	-0.6	-0.7
Below Normal (6%)	-0.7	-0.9	-1.1	-0.6	-0.5	-0.5	-0.8	-0.9	-0.9	-0.9	-0.7	-0.7
Dry (13%)	-0.9	-1.0	-1.0	-1.0	-0.9	-0.8	-1.0	-1.0	-0.9	-0.8	-0.7	-0.7
Critical (25%)	-0.8	-0.9	-1.0	-1.0	-0.9	-1.0	-1.0	-1.1	-1.0	-0.8	-0.6	-0.6

Alternative 4 H1 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.2	1.4	1.6	1.8	2.6	2.1	1.7	1.2	1.1	1.3	1.3	1.4
20%	1.1	1.1	1.0	1.6	1.9	1.8	1.1	1.0	0.9	1.1	1.3	1.3
30%	1.1	1.0	1.0	1.3	1.5	1.4	0.9	0.9	0.9	1.1	1.2	1.2
40%	1.1	0.9	1.0	1.1	1.2	1.2	0.9	0.9	0.9	1.1	1.2	1.2
50%	1.0	0.9	0.9	1.0	1.0	1.1	0.9	0.8	0.9	1.0	1.1	1.2
60%	1.0	0.8	0.9	1.0	1.0	1.0	0.8	0.8	0.9	1.0	1.1	1.1
70%	1.0	0.8	0.8	0.9	0.9	0.9	0.8	0.8	0.8	1.0	1.1	1.1
80%	0.9	0.8	0.7	0.8	0.8	0.7	0.8	0.7	0.8	0.9	1.0	1.1
90%	0.9	0.7	0.6	0.8	0.8	0.7	0.6	0.6	0.8	0.9	1.0	1.0
Long Term												
Full Simulation Period[a]	1.0	1.0	1.0	1.2	1.4	1.3	1.0	0.9	0.9	1.1	1.2	1.2
Water Year Types[b]												
Wet (31%)	1.2	1.3	1.6	1.6	2.2	2.2	1.5	1.2	1.2	1.2	1.3	1.4
Above Normal (25%)	1.0	0.8	1.0	1.8	2.1	1.7	1.1	1.0	0.9	1.0	1.1	1.1
Below Normal (6%)	1.1	0.9	0.7	1.2	1.2	1.3	0.9	0.8	0.9	0.9	1.0	1.1
Dry (13%)	1.0	0.8	0.9	0.8	0.9	1.0	0.8	0.8	0.9	1.0	1.1	1.1
Critical (25%)	1.0	0.8	0.8	0.9	0.9	0.8	0.7	0.7	0.8	1.1	1.1	1.2

Alternative 4 H1 (LLT) minus Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.8	1.7
20%	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.8	1.7	1.8	1.8	1.7
30%	1.8	1.8	1.9	1.8	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.8
40%	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.8	1.8	1.8	1.8
50%	1.8	1.8	1.8	1.8	1.8	1.7	1.8	1.8	1.8	1.8	1.8	1.8
60%	1.8	1.8	1.8	1.8	1.8	1.7	1.8	1.8	1.8	1.8	1.7	1.8
70%	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.8	1.8	1.8	1.8	1.8
80%	1.8	1.8	1.8	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
90%	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.8	1.8	1.8
Long Term												
Full Simulation Period[a]	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.8	1.8	1.8
Water Year Types[b]												
Wet (31%)	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Above Normal (25%)	1.8	1.8	1.8	1.7	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.7
Below Normal (6%)	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.8
Dry (13%)	1.8	1.8	1.8	1.8	1.8	1.7	1.8	1.8	1.8	1.8	1.8	1.8
Critical (25%)	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-28-2-6. Mokelumne River at Terminous, Monthly Averaged Daily Minimum Elevation

Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.5	-0.4	-0.1	0.1	0.8	0.4	0.0	-0.5	-0.7	-0.5	-0.5	-0.3
20%	-0.7	-0.7	-0.7	-0.2	0.1	0.0	-0.7	-0.8	-0.8	-0.7	-0.5	-0.5
30%	-0.8	-0.8	-0.9	-0.4	-0.3	-0.3	-0.8	-0.8	-0.9	-0.7	-0.5	-0.5
40%	-0.8	-0.9	-0.9	-0.7	-0.6	-0.6	-0.8	-0.9	-0.9	-0.8	-0.6	-0.6
50%	-0.8	-0.9	-0.9	-0.8	-0.8	-0.6	-0.9	-0.9	-0.9	-0.8	-0.6	-0.6
60%	-0.8	-1.0	-0.9	-0.9	-0.8	-0.7	-0.9	-1.0	-0.9	-0.8	-0.6	-0.6
70%	-0.8	-1.0	-1.0	-0.9	-0.8	-0.9	-1.0	-1.0	-0.9	-0.8	-0.7	-0.7
80%	-0.9	-1.1	-1.1	-1.0	-1.0	-1.0	-1.0	-1.1	-0.9	-0.9	-0.7	-0.7
90%	-0.9	-1.1	-1.2	-1.1	-1.0	-1.0	-1.2	-1.1	-1.0	-0.9	-0.8	-0.7
Long Term												
Full Simulation Period[a]	-0.8	-0.8	-0.8	-0.6	-0.4	-0.4	-0.7	-0.8	-0.8	-0.7	-0.6	-0.5
Water Year Types[b]												
Wet (31%)	-0.6	-0.4	-0.2	-0.2	0.4	0.5	-0.2	-0.5	-0.5	-0.5	-0.5	-0.3
Above Normal (25%)	-0.8	-1.0	-0.9	0.1	0.3	0.0	-0.5	-0.7	-0.9	-0.7	-0.6	-0.7
Below Normal (6%)	-0.7	-0.9	-1.1	-0.6	-0.5	-0.5	-0.8	-0.9	-0.9	-0.9	-0.7	-0.7
Dry (13%)	-0.9	-1.0	-1.0	-1.0	-0.9	-0.8	-1.0	-1.0	-0.9	-0.8	-0.7	-0.7
Critical (25%)	-0.8	-0.9	-1.0	-1.0	-0.9	-1.0	-1.0	-1.1	-1.0	-0.8	-0.6	-0.6

Alternative 4 H2 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.2	1.4	1.6	1.8	2.6	2.1	1.7	1.2	1.1	1.3	1.3	1.4
20%	1.1	1.1	1.0	1.6	1.9	1.8	1.1	1.0	0.9	1.1	1.3	1.3
30%	1.1	1.0	1.0	1.3	1.5	1.4	1.0	0.9	0.9	1.1	1.2	1.2
40%	1.1	0.9	1.0	1.1	1.2	1.2	0.9	0.9	0.9	1.1	1.2	1.2
50%	1.0	0.9	0.9	1.0	1.0	1.1	0.9	0.8	0.9	1.1	1.1	1.2
60%	1.0	0.8	0.9	1.0	1.0	1.0	0.9	0.8	0.9	1.0	1.1	1.1
70%	1.0	0.8	0.8	0.9	0.9	0.9	0.8	0.8	0.8	1.0	1.1	1.1
80%	1.0	0.8	0.7	0.8	0.8	0.8	0.8	0.7	0.8	1.0	1.0	1.1
90%	0.9	0.7	0.7	0.8	0.8	0.7	0.6	0.6	0.8	0.9	1.0	1.0
Long Term												
Full Simulation Period[a]	1.0	1.0	1.1	1.2	1.4	1.3	1.0	0.9	0.9	1.1	1.2	1.2
Water Year Types[b]												
Wet (31%)	1.2	1.3	1.6	1.6	2.2	2.2	1.5	1.2	1.2	1.3	1.3	1.4
Above Normal (25%)	1.0	0.8	1.0	1.8	2.2	1.7	1.2	1.0	0.9	1.1	1.2	1.1
Below Normal (6%)	1.1	0.9	0.7	1.2	1.2	1.2	0.9	0.8	0.9	0.9	1.0	1.1
Dry (13%)	1.0	0.8	0.9	0.8	0.9	1.0	0.8	0.8	0.9	1.0	1.1	1.1
Critical (25%)	1.0	0.8	0.8	0.9	0.9	0.8	0.7	0.7	0.8	1.1	1.1	1.2

Alternative 4 H2 (LLT) minus Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.8	1.7
20%	1.8	1.8	1.8	1.8	1.9	1.8	1.7	1.8	1.7	1.8	1.8	1.7
30%	1.8	1.8	1.9	1.8	1.7	1.7	1.8	1.8	1.8	1.8	1.7	1.7
40%	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.8	1.8	1.8	1.8
50%	1.8	1.8	1.8	1.8	1.8	1.7	1.8	1.8	1.8	1.8	1.8	1.8
60%	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.8
70%	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
80%	1.8	1.8	1.8	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
90%	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.8	1.8	1.8
Long Term												
Full Simulation Period[a]	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.8	1.8	1.8
Water Year Types[b]												
Wet (31%)	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Above Normal (25%)	1.8	1.8	1.8	1.7	1.8	1.8	1.7	1.7	1.7	1.8	1.8	1.8
Below Normal (6%)	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.8
Dry (13%)	1.8	1.8	1.8	1.8	1.8	1.7	1.8	1.8	1.8	1.8	1.8	1.8
Critical (25%)	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-28-2-7. Mokelumne River at Terminous, Monthly Averaged Daily Minimum Elevation

Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	-0.5	-0.4	-0.1	0.1	0.8	0.4	0.0	-0.5	-0.7	-0.5	-0.5	-0.3
20%	-0.7	-0.7	-0.7	-0.2	0.1	0.0	-0.7	-0.8	-0.8	-0.7	-0.5	-0.5
30%	-0.8	-0.8	-0.9	-0.4	-0.3	-0.3	-0.8	-0.8	-0.9	-0.7	-0.5	-0.5
40%	-0.8	-0.9	-0.9	-0.7	-0.6	-0.6	-0.8	-0.9	-0.9	-0.8	-0.6	-0.6
50%	-0.8	-0.9	-0.9	-0.8	-0.8	-0.6	-0.9	-0.9	-0.9	-0.8	-0.6	-0.6
60%	-0.8	-1.0	-0.9	-0.9	-0.8	-0.7	-0.9	-1.0	-0.9	-0.8	-0.6	-0.6
70%	-0.8	-1.0	-1.0	-0.9	-0.8	-0.9	-1.0	-1.0	-0.9	-0.8	-0.7	-0.7
80%	-0.9	-1.1	-1.1	-1.0	-1.0	-1.0	-1.0	-1.1	-0.9	-0.9	-0.7	-0.7
90%	-0.9	-1.1	-1.2	-1.1	-1.0	-1.0	-1.2	-1.1	-1.0	-0.9	-0.8	-0.7
Long Term												
Full Simulation Period[a]	-0.8	-0.8	-0.8	-0.6	-0.4	-0.4	-0.7	-0.8	-0.8	-0.7	-0.6	-0.5
Water Year Types[b]												
Wet (31%)	-0.6	-0.4	-0.2	-0.2	0.4	0.5	-0.2	-0.5	-0.5	-0.5	-0.5	-0.3
Above Normal (25%)	-0.8	-1.0	-0.9	0.1	0.3	0.0	-0.5	-0.7	-0.9	-0.7	-0.6	-0.7
Below Normal (6%)	-0.7	-0.9	-1.1	-0.6	-0.5	-0.5	-0.8	-0.9	-0.9	-0.9	-0.7	-0.7
Dry (13%)	-0.9	-1.0	-1.0	-1.0	-0.9	-0.8	-1.0	-1.0	-0.9	-0.8	-0.7	-0.7
Critical (25%)	-0.8	-0.9	-1.0	-1.0	-0.9	-1.0	-1.0	-1.1	-1.0	-0.8	-0.6	-0.6

Alternative 4 H3 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.2	1.4	1.6	1.8	2.5	2.1	1.7	1.2	1.1	1.3	1.3	1.5
20%	1.1	1.1	1.1	1.6	1.9	1.8	1.1	1.0	0.9	1.1	1.3	1.3
30%	1.1	1.0	1.0	1.3	1.5	1.4	0.9	0.9	0.9	1.1	1.2	1.3
40%	1.1	1.0	1.0	1.1	1.2	1.1	0.9	0.9	0.9	1.1	1.2	1.2
50%	1.0	0.9	0.9	1.0	1.0	1.1	0.9	0.8	0.9	1.0	1.1	1.2
60%	1.0	0.8	0.9	1.0	1.0	1.0	0.8	0.8	0.9	1.0	1.1	1.2
70%	1.0	0.8	0.8	0.9	0.9	0.9	0.8	0.8	0.8	1.0	1.1	1.2
80%	0.9	0.8	0.7	0.8	0.8	0.7	0.8	0.7	0.8	0.9	1.0	1.1
90%	0.9	0.7	0.7	0.8	0.8	0.7	0.6	0.6	0.8	0.9	1.0	1.0
Long Term												
Full Simulation Period[a]	1.1	1.0	1.0	1.2	1.4	1.3	1.0	0.9	0.9	1.1	1.2	1.3
Water Year Types[b]												
Wet (31%)	1.2	1.3	1.6	1.6	2.2	2.2	1.5	1.2	1.2	1.2	1.3	1.6
Above Normal (25%)	1.0	0.8	1.0	1.8	2.1	1.7	1.1	1.0	0.9	1.0	1.1	1.2
Below Normal (6%)	1.1	0.9	0.7	1.2	1.2	1.2	0.9	0.8	0.9	0.9	1.0	1.1
Dry (13%)	1.0	0.8	0.9	0.8	0.9	1.0	0.8	0.8	0.9	1.0	1.1	1.1
Critical (25%)	1.0	0.9	0.8	0.9	0.9	0.8	0.7	0.7	0.8	1.1	1.1	1.2

Alternative 4 H3 (LLT) minus Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.8	1.7	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.8	1.9
20%	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.8	1.7	1.8	1.8	1.7
30%	1.8	1.8	1.9	1.8	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.8
40%	1.8	1.9	1.8	1.8	1.8	1.7	1.7	1.7	1.8	1.8	1.8	1.8
50%	1.8	1.8	1.8	1.8	1.8	1.7	1.8	1.8	1.8	1.8	1.8	1.8
60%	1.8	1.8	1.8	1.9	1.7	1.7	1.8	1.8	1.8	1.8	1.7	1.8
70%	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.8	1.8	1.8	1.8	1.8
80%	1.8	1.8	1.8	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
90%	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.8	1.8	1.8
Long Term												
Full Simulation Period[a]	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.8	1.8	1.8
Water Year Types[b]												
Wet (31%)	1.8	1.7	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.8
Above Normal (25%)	1.8	1.8	1.8	1.7	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.9
Below Normal (6%)	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.8
Dry (13%)	1.8	1.8	1.8	1.8	1.8	1.7	1.8	1.8	1.8	1.8	1.8	1.8
Critical (25%)	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-28-2-8. Mokelumne River at Terminous, Monthly Averaged Daily Minimum Elevation

Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	-0.5	-0.4	-0.1	0.1	0.8	0.4	0.0	-0.5	-0.7	-0.5	-0.5	-0.3
20%	-0.7	-0.7	-0.7	-0.2	0.1	0.0	-0.7	-0.8	-0.8	-0.7	-0.5	-0.5
30%	-0.8	-0.8	-0.9	-0.4	-0.3	-0.3	-0.8	-0.8	-0.9	-0.7	-0.5	-0.5
40%	-0.8	-0.9	-0.9	-0.7	-0.6	-0.6	-0.8	-0.9	-0.9	-0.8	-0.6	-0.6
50%	-0.8	-0.9	-0.9	-0.8	-0.8	-0.6	-0.9	-0.9	-0.9	-0.8	-0.6	-0.6
60%	-0.8	-1.0	-0.9	-0.9	-0.8	-0.7	-0.9	-1.0	-0.9	-0.8	-0.6	-0.6
70%	-0.8	-1.0	-1.0	-0.9	-0.8	-0.9	-1.0	-1.0	-0.9	-0.8	-0.7	-0.7
80%	-0.9	-1.1	-1.1	-1.0	-1.0	-1.0	-1.0	-1.1	-0.9	-0.9	-0.7	-0.7
90%	-0.9	-1.1	-1.2	-1.1	-1.0	-1.0	-1.2	-1.1	-1.0	-0.9	-0.8	-0.7
Long Term												
Full Simulation Period[a]	-0.8	-0.8	-0.8	-0.6	-0.4	-0.4	-0.7	-0.8	-0.8	-0.7	-0.6	-0.5
Water Year Types[b]												
Wet (31%)	-0.6	-0.4	-0.2	-0.2	0.4	0.5	-0.2	-0.5	-0.5	-0.5	-0.5	-0.3
Above Normal (25%)	-0.8	-1.0	-0.9	0.1	0.3	0.0	-0.5	-0.7	-0.9	-0.7	-0.6	-0.7
Below Normal (6%)	-0.7	-0.9	-1.1	-0.6	-0.5	-0.5	-0.8	-0.9	-0.9	-0.9	-0.7	-0.7
Dry (13%)	-0.9	-1.0	-1.0	-1.0	-0.9	-0.8	-1.0	-1.0	-0.9	-0.8	-0.7	-0.7
Critical (25%)	-0.8	-0.9	-1.0	-1.0	-0.9	-1.0	-1.0	-1.1	-1.0	-0.8	-0.6	-0.6

Alternative 4 H4 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.2	1.3	1.6	1.8	2.5	2.1	1.7	1.2	1.1	1.3	1.3	1.6
20%	1.1	1.0	1.0	1.6	1.9	1.8	1.1	1.0	0.9	1.1	1.3	1.3
30%	1.1	1.0	1.0	1.3	1.5	1.4	1.0	0.9	0.9	1.1	1.2	1.3
40%	1.1	1.0	1.0	1.1	1.2	1.2	0.9	0.9	0.9	1.1	1.2	1.2
50%	1.0	0.9	0.9	1.0	1.0	1.1	0.9	0.8	0.9	1.1	1.1	1.2
60%	1.0	0.8	0.9	1.0	1.0	1.0	0.9	0.8	0.9	1.0	1.1	1.2
70%	1.0	0.8	0.8	0.9	0.9	0.9	0.8	0.8	0.8	1.0	1.1	1.2
80%	1.0	0.8	0.7	0.8	0.8	0.7	0.8	0.7	0.8	1.0	1.1	1.1
90%	0.9	0.8	0.6	0.8	0.8	0.7	0.6	0.6	0.8	0.9	1.0	1.0
Long Term												
Full Simulation Period[a]	1.1	1.0	1.0	1.2	1.4	1.3	1.0	0.9	0.9	1.1	1.2	1.3
Water Year Types[b]												
Wet (31%)	1.2	1.3	1.6	1.6	2.2	2.2	1.5	1.2	1.2	1.3	1.3	1.6
Above Normal (25%)	1.0	0.8	1.0	1.8	2.1	1.7	1.2	1.0	0.9	1.1	1.2	1.2
Below Normal (6%)	1.1	0.9	0.7	1.2	1.2	1.2	0.9	0.8	0.9	0.9	1.1	1.1
Dry (13%)	1.0	0.8	0.9	0.8	0.9	1.0	0.8	0.8	0.9	1.0	1.1	1.1
Critical (25%)	1.0	0.9	0.8	0.8	0.9	0.8	0.7	0.7	0.8	1.1	1.1	1.2

Alternative 4 H4 (LLT) minus Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.8	1.7	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.8	1.9
20%	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.8	1.7	1.8	1.8	1.7
30%	1.8	1.8	1.8	1.8	1.7	1.7	1.8	1.8	1.8	1.8	1.7	1.8
40%	1.8	1.9	1.8	1.8	1.8	1.7	1.7	1.7	1.8	1.8	1.8	1.8
50%	1.8	1.8	1.8	1.8	1.8	1.7	1.8	1.8	1.8	1.8	1.8	1.8
60%	1.8	1.8	1.8	1.8	1.8	1.7	1.8	1.8	1.8	1.8	1.7	1.8
70%	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
80%	1.8	1.8	1.8	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
90%	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.8	1.8	1.8
Long Term												
Full Simulation Period[a]	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.8	1.8	1.8
Water Year Types[b]												
Wet (31%)	1.8	1.7	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.8
Above Normal (25%)	1.8	1.8	1.8	1.7	1.8	1.8	1.7	1.7	1.7	1.8	1.8	1.9
Below Normal (6%)	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.8
Dry (13%)	1.8	1.8	1.8	1.8	1.8	1.7	1.8	1.8	1.8	1.8	1.8	1.8
Critical (25%)	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.8

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-28-2-9. Mokelumne River at Terminous, Monthly Averaged Daily Minimum Elevation

Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.5	-0.4	-0.1	0.1	0.8	0.4	0.0	-0.5	-0.7	-0.5	-0.5	-0.3
20%	-0.7	-0.7	-0.7	-0.2	0.1	0.0	-0.7	-0.8	-0.8	-0.7	-0.5	-0.5
30%	-0.8	-0.8	-0.9	-0.4	-0.3	-0.3	-0.8	-0.8	-0.9	-0.7	-0.5	-0.5
40%	-0.8	-0.9	-0.9	-0.7	-0.6	-0.6	-0.8	-0.9	-0.9	-0.8	-0.6	-0.6
50%	-0.8	-0.9	-0.9	-0.8	-0.8	-0.6	-0.9	-0.9	-0.9	-0.8	-0.6	-0.6
60%	-0.8	-1.0	-0.9	-0.9	-0.8	-0.7	-0.9	-1.0	-0.9	-0.8	-0.6	-0.6
70%	-0.8	-1.0	-1.0	-0.9	-0.8	-0.9	-1.0	-1.0	-0.9	-0.8	-0.7	-0.7
80%	-0.9	-1.1	-1.1	-1.0	-1.0	-1.0	-1.0	-1.1	-0.9	-0.9	-0.7	-0.7
90%	-0.9	-1.1	-1.2	-1.1	-1.0	-1.0	-1.2	-1.1	-1.0	-0.9	-0.8	-0.7
Long Term												
Full Simulation Period[a]	-0.8	-0.8	-0.8	-0.6	-0.4	-0.4	-0.7	-0.8	-0.8	-0.7	-0.6	-0.5
Water Year Types[b]												
Wet (31%)	-0.6	-0.4	-0.2	-0.2	0.4	0.5	-0.2	-0.5	-0.5	-0.5	-0.5	-0.3
Above Normal (25%)	-0.8	-1.0	-0.9	0.1	0.3	0.0	-0.5	-0.7	-0.9	-0.7	-0.6	-0.7
Below Normal (6%)	-0.7	-0.9	-1.1	-0.6	-0.5	-0.5	-0.8	-0.9	-0.9	-0.9	-0.7	-0.7
Dry (13%)	-0.9	-1.0	-1.0	-1.0	-0.9	-0.8	-1.0	-1.0	-0.9	-0.8	-0.7	-0.7
Critical (25%)	-0.8	-0.9	-1.0	-1.0	-0.9	-1.0	-1.0	-1.1	-1.0	-0.8	-0.6	-0.6

Alternative 5 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.2	1.4	1.6	1.8	2.5	2.0	1.7	1.2	1.1	1.3	1.3	1.5
20%	1.1	1.0	1.0	1.6	1.9	1.8	1.1	1.0	0.9	1.1	1.3	1.3
30%	1.1	1.0	1.0	1.3	1.4	1.4	0.9	0.9	0.9	1.1	1.2	1.3
40%	1.0	0.9	0.9	1.1	1.2	1.2	0.9	0.9	0.9	1.1	1.2	1.2
50%	1.0	0.9	0.9	1.0	1.0	1.1	0.9	0.8	0.9	1.1	1.1	1.2
60%	1.0	0.9	0.9	0.9	1.0	1.0	0.8	0.8	0.9	1.0	1.1	1.2
70%	1.0	0.8	0.8	0.9	0.9	0.9	0.8	0.8	0.8	1.0	1.1	1.2
80%	0.9	0.8	0.7	0.8	0.8	0.7	0.8	0.7	0.8	1.0	1.1	1.1
90%	0.9	0.8	0.6	0.7	0.8	0.7	0.6	0.6	0.8	0.9	1.0	1.1
Long Term												
Full Simulation Period[a]	1.0	1.0	1.0	1.2	1.4	1.3	1.0	0.9	0.9	1.1	1.2	1.3
Water Year Types[b]												
Wet (31%)	1.1	1.3	1.6	1.6	2.2	2.2	1.5	1.2	1.2	1.2	1.3	1.5
Above Normal (25%)	1.0	0.8	1.0	1.8	2.1	1.7	1.1	1.0	0.8	1.0	1.2	1.2
Below Normal (6%)	1.1	0.9	0.7	1.2	1.2	1.2	0.9	0.8	0.9	0.9	1.1	1.1
Dry (13%)	1.0	0.8	0.8	0.8	0.8	1.0	0.8	0.8	0.9	1.0	1.1	1.1
Critical (25%)	1.0	0.9	0.8	0.9	0.9	0.8	0.7	0.7	0.8	1.0	1.1	1.2

Alternative 5 (LLT) minus Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.8	1.7	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.8	1.9
20%	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.8	1.7	1.8	1.8	1.7
30%	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.8
40%	1.8	1.9	1.8	1.8	1.8	1.7	1.7	1.7	1.8	1.8	1.8	1.8
50%	1.8	1.8	1.8	1.8	1.8	1.7	1.8	1.8	1.8	1.8	1.8	1.8
60%	1.8	1.8	1.8	1.8	1.7	1.8	1.8	1.8	1.8	1.8	1.7	1.8
70%	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.8	1.8	1.8	1.8	1.8
80%	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.8	1.8	1.8	1.8	1.8
90%	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.8	1.8	1.8
Long Term												
Full Simulation Period[a]	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.8	1.8	1.8
Water Year Types[b]												
Wet (31%)	1.8	1.7	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.8
Above Normal (25%)	1.8	1.8	1.8	1.7	1.8	1.7	1.7	1.7	1.7	1.8	1.8	1.9
Below Normal (6%)	1.8	1.9	1.8	1.8	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.8
Dry (13%)	1.8	1.8	1.8	1.8	1.8	1.7	1.8	1.8	1.8	1.8	1.8	1.8
Critical (25%)	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-28-2-10. Mokelumne River at Terminous, Monthly Averaged Daily Minimum Elevation

Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.5	-0.4	-0.1	0.1	0.8	0.4	0.0	-0.5	-0.7	-0.5	-0.5	-0.3
20%	-0.7	-0.7	-0.7	-0.2	0.1	0.0	-0.7	-0.8	-0.8	-0.7	-0.5	-0.5
30%	-0.8	-0.8	-0.9	-0.4	-0.3	-0.3	-0.8	-0.8	-0.9	-0.7	-0.5	-0.5
40%	-0.8	-0.9	-0.9	-0.7	-0.6	-0.6	-0.8	-0.9	-0.9	-0.8	-0.6	-0.6
50%	-0.8	-0.9	-0.9	-0.8	-0.8	-0.6	-0.9	-0.9	-0.9	-0.8	-0.6	-0.6
60%	-0.8	-1.0	-0.9	-0.9	-0.8	-0.7	-0.9	-1.0	-0.9	-0.8	-0.6	-0.6
70%	-0.8	-1.0	-1.0	-0.9	-0.8	-0.9	-1.0	-1.0	-0.9	-0.8	-0.7	-0.7
80%	-0.9	-1.1	-1.1	-1.0	-1.0	-1.0	-1.0	-1.1	-0.9	-0.9	-0.7	-0.7
90%	-0.9	-1.1	-1.2	-1.1	-1.0	-1.0	-1.2	-1.1	-1.0	-0.9	-0.8	-0.7
Long Term												
Full Simulation Period[a]	-0.8	-0.8	-0.8	-0.6	-0.4	-0.4	-0.7	-0.8	-0.8	-0.7	-0.6	-0.5
Water Year Types[b]												
Wet (31%)	-0.6	-0.4	-0.2	-0.2	0.4	0.5	-0.2	-0.5	-0.5	-0.5	-0.5	-0.3
Above Normal (25%)	-0.8	-1.0	-0.9	0.1	0.3	0.0	-0.5	-0.7	-0.9	-0.7	-0.6	-0.7
Below Normal (6%)	-0.7	-0.9	-1.1	-0.6	-0.5	-0.5	-0.8	-0.9	-0.9	-0.9	-0.7	-0.7
Dry (13%)	-0.9	-1.0	-1.0	-1.0	-0.9	-0.8	-1.0	-1.0	-0.9	-0.8	-0.7	-0.7
Critical (25%)	-0.8	-0.9	-1.0	-1.0	-0.9	-1.0	-1.0	-1.1	-1.0	-0.8	-0.6	-0.6

Alternative 6A,6B,6C (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.3	1.4	1.7	1.9	2.6	2.1	1.7	1.2	1.1	1.3	1.4	1.5
20%	1.1	1.1	1.1	1.6	1.9	1.8	1.1	1.0	1.0	1.1	1.3	1.3
30%	1.1	1.0	1.1	1.4	1.5	1.4	0.9	0.9	0.9	1.1	1.2	1.3
40%	1.1	1.0	1.0	1.2	1.2	1.2	0.9	0.9	0.9	1.1	1.2	1.2
50%	1.0	0.9	1.0	1.0	1.1	1.2	0.9	0.9	0.9	1.1	1.2	1.2
60%	1.0	0.9	1.0	1.0	1.0	1.0	0.8	0.8	0.9	1.1	1.1	1.2
70%	1.0	0.8	0.9	0.9	1.0	0.9	0.8	0.8	0.9	1.0	1.1	1.2
80%	1.0	0.8	0.8	0.8	0.9	0.8	0.8	0.7	0.8	1.0	1.1	1.2
90%	1.0	0.8	0.7	0.8	0.8	0.8	0.6	0.7	0.8	0.9	1.0	1.1
Long Term												
Full Simulation Period[a]	1.1	1.0	1.1	1.2	1.4	1.3	1.0	0.9	0.9	1.1	1.2	1.3
Water Year Types[b]												
Wet (31%)	1.2	1.4	1.7	1.6	2.2	2.2	1.5	1.2	1.2	1.3	1.3	1.5
Above Normal (25%)	1.0	0.9	1.0	1.9	2.1	1.7	1.1	1.0	0.9	1.1	1.2	1.2
Below Normal (6%)	1.1	1.0	0.8	1.3	1.3	1.3	0.9	0.9	0.9	1.0	1.1	1.1
Dry (13%)	1.0	0.9	0.9	0.9	0.9	1.0	0.8	0.8	0.9	1.0	1.1	1.2
Critical (25%)	1.0	0.9	0.9	0.9	0.9	0.8	0.7	0.7	0.8	1.1	1.2	1.2

Alternative 6A,6B,6C (LLT) minus Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.8
20%	1.9	1.9	1.8	1.8	1.8	1.8	1.7	1.8	1.8	1.8	1.8	1.8
30%	1.9	1.8	1.9	1.8	1.8	1.7	1.7	1.8	1.8	1.8	1.8	1.8
40%	1.8	1.9	1.9	1.8	1.8	1.7	1.8	1.7	1.8	1.9	1.8	1.8
50%	1.8	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
60%	1.8	1.8	1.9	1.8	1.8	1.7	1.8	1.8	1.8	1.8	1.8	1.8
70%	1.8	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
80%	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.9	1.8	1.8
90%	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Long Term												
Full Simulation Period[a]	1.8	1.8	1.9	1.8	1.8	1.8	1.7	1.8	1.8	1.8	1.8	1.8
Water Year Types[b]												
Wet (31%)	1.8	1.8	1.9	1.8	1.8	1.7	1.7	1.7	1.7	1.8	1.8	1.8
Above Normal (25%)	1.8	1.8	1.9	1.8	1.8	1.8	1.7	1.7	1.8	1.8	1.8	1.8
Below Normal (6%)	1.9	1.9	1.9	1.8	1.8	1.8	1.7	1.7	1.8	1.8	1.8	1.8
Dry (13%)	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.9	1.8	1.8
Critical (25%)	1.8	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-28-2-11. Mokelumne River at Terminous, Monthly Averaged Daily Minimum Elevation

Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	-0.5	-0.4	-0.1	0.1	0.8	0.4	0.0	-0.5	-0.7	-0.5	-0.5	-0.3
20%	-0.7	-0.7	-0.7	-0.2	0.1	0.0	-0.7	-0.8	-0.8	-0.7	-0.5	-0.5
30%	-0.8	-0.8	-0.9	-0.4	-0.3	-0.3	-0.8	-0.8	-0.9	-0.7	-0.5	-0.5
40%	-0.8	-0.9	-0.9	-0.7	-0.6	-0.6	-0.8	-0.9	-0.9	-0.8	-0.6	-0.6
50%	-0.8	-0.9	-0.9	-0.8	-0.8	-0.6	-0.9	-0.9	-0.9	-0.8	-0.6	-0.6
60%	-0.8	-1.0	-0.9	-0.9	-0.8	-0.7	-0.9	-1.0	-0.9	-0.8	-0.6	-0.6
70%	-0.8	-1.0	-1.0	-0.9	-0.8	-0.9	-1.0	-1.0	-0.9	-0.8	-0.7	-0.7
80%	-0.9	-1.1	-1.1	-1.0	-1.0	-1.0	-1.0	-1.1	-0.9	-0.9	-0.7	-0.7
90%	-0.9	-1.1	-1.2	-1.1	-1.0	-1.0	-1.2	-1.1	-1.0	-0.9	-0.8	-0.7
Long Term												
Full Simulation Period[a]	-0.8	-0.8	-0.8	-0.6	-0.4	-0.4	-0.7	-0.8	-0.8	-0.7	-0.6	-0.5
Water Year Types[b]												
Wet (31%)	-0.6	-0.4	-0.2	-0.2	0.4	0.5	-0.2	-0.5	-0.5	-0.5	-0.5	-0.3
Above Normal (25%)	-0.8	-1.0	-0.9	0.1	0.3	0.0	-0.5	-0.7	-0.9	-0.7	-0.6	-0.7
Below Normal (6%)	-0.7	-0.9	-1.1	-0.6	-0.5	-0.5	-0.8	-0.9	-0.9	-0.9	-0.7	-0.7
Dry (13%)	-0.9	-1.0	-1.0	-1.0	-0.9	-0.8	-1.0	-1.0	-0.9	-0.8	-0.7	-0.7
Critical (25%)	-0.8	-0.9	-1.0	-1.0	-0.9	-1.0	-1.0	-1.1	-1.0	-0.8	-0.6	-0.6

Alternative 7 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.3	1.4	1.7	1.9	2.5	2.0	1.7	1.2	1.1	1.3	1.3	1.6
20%	1.1	1.1	1.1	1.6	1.9	1.8	1.1	1.0	1.0	1.1	1.3	1.3
30%	1.1	1.0	1.1	1.4	1.5	1.4	0.9	0.9	0.9	1.1	1.2	1.3
40%	1.1	1.0	1.0	1.2	1.2	1.2	0.9	0.9	0.9	1.1	1.2	1.2
50%	1.0	1.0	1.0	1.0	1.1	1.2	0.9	0.9	0.9	1.1	1.2	1.2
60%	1.0	0.9	1.0	1.0	1.0	1.0	0.8	0.8	0.9	1.0	1.1	1.2
70%	1.0	0.9	0.9	0.9	1.0	0.9	0.8	0.8	0.9	1.0	1.1	1.2
80%	1.0	0.8	0.8	0.8	0.9	0.8	0.8	0.7	0.9	0.9	1.1	1.1
90%	1.0	0.8	0.7	0.8	0.8	0.8	0.6	0.7	0.8	0.9	1.0	1.1
Long Term												
Full Simulation Period[a]	1.1	1.0	1.1	1.2	1.4	1.3	1.0	0.9	1.0	1.1	1.2	1.3
Water Year Types[b]												
Wet (31%)	1.2	1.4	1.6	1.6	2.2	2.2	1.5	1.2	1.2	1.3	1.3	1.6
Above Normal (25%)	1.0	0.9	1.0	1.9	2.1	1.7	1.2	1.0	0.9	1.0	1.2	1.2
Below Normal (6%)	1.1	1.0	0.8	1.2	1.3	1.3	0.9	0.9	0.9	0.9	1.1	1.1
Dry (13%)	1.0	0.9	0.9	0.9	0.9	1.0	0.8	0.8	0.9	1.0	1.1	1.1
Critical (25%)	1.0	0.9	0.9	0.9	0.9	0.8	0.7	0.7	0.8	1.0	1.2	1.2

Alternative 7 (LLT) minus Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.9
20%	1.8	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
30%	1.9	1.8	1.9	1.8	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8
40%	1.8	1.9	1.9	1.8	1.8	1.7	1.8	1.7	1.8	1.8	1.8	1.8
50%	1.8	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
60%	1.8	1.8	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
70%	1.8	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
80%	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
90%	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Long Term												
Full Simulation Period[a]	1.8	1.9	1.9	1.8	1.8	1.8	1.7	1.8	1.8	1.8	1.8	1.8
Water Year Types[b]												
Wet (31%)	1.9	1.8	1.9	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.8	1.9
Above Normal (25%)	1.8	1.8	1.9	1.8	1.8	1.7	1.7	1.7	1.8	1.8	1.8	1.9
Below Normal (6%)	1.8	1.9	1.9	1.8	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.8
Dry (13%)	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Critical (25%)	1.8	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-28-2-12. Mokelumne River at Terminous, Monthly Averaged Daily Minimum Elevation

Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	-0.5	-0.4	-0.1	0.1	0.8	0.4	0.0	-0.5	-0.7	-0.5	-0.5	-0.3
20%	-0.7	-0.7	-0.7	-0.2	0.1	0.0	-0.7	-0.8	-0.8	-0.7	-0.5	-0.5
30%	-0.8	-0.8	-0.9	-0.4	-0.3	-0.3	-0.8	-0.8	-0.9	-0.7	-0.5	-0.5
40%	-0.8	-0.9	-0.9	-0.7	-0.6	-0.6	-0.8	-0.9	-0.9	-0.8	-0.6	-0.6
50%	-0.8	-0.9	-0.9	-0.8	-0.8	-0.6	-0.9	-0.9	-0.9	-0.8	-0.6	-0.6
60%	-0.8	-1.0	-0.9	-0.9	-0.8	-0.7	-0.9	-1.0	-0.9	-0.8	-0.6	-0.6
70%	-0.8	-1.0	-1.0	-0.9	-0.8	-0.9	-1.0	-1.0	-0.9	-0.8	-0.7	-0.7
80%	-0.9	-1.1	-1.1	-1.0	-1.0	-1.0	-1.0	-1.1	-0.9	-0.9	-0.7	-0.7
90%	-0.9	-1.1	-1.2	-1.1	-1.0	-1.0	-1.2	-1.1	-1.0	-0.9	-0.8	-0.7
Long Term												
Full Simulation Period[a]	-0.8	-0.8	-0.8	-0.6	-0.4	-0.4	-0.7	-0.8	-0.8	-0.7	-0.6	-0.5
Water Year Types[b]												
Wet (31%)	-0.6	-0.4	-0.2	-0.2	0.4	0.5	-0.2	-0.5	-0.5	-0.5	-0.5	-0.3
Above Normal (25%)	-0.8	-1.0	-0.9	0.1	0.3	0.0	-0.5	-0.7	-0.9	-0.7	-0.6	-0.7
Below Normal (6%)	-0.7	-0.9	-1.1	-0.6	-0.5	-0.5	-0.8	-0.9	-0.9	-0.9	-0.7	-0.7
Dry (13%)	-0.9	-1.0	-1.0	-1.0	-0.9	-0.8	-1.0	-1.0	-0.9	-0.8	-0.7	-0.7
Critical (25%)	-0.8	-0.9	-1.0	-1.0	-0.9	-1.0	-1.0	-1.1	-1.0	-0.8	-0.6	-0.6

Alternative 8 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.3	1.5	1.7	1.9	2.5	2.0	1.7	1.2	1.1	1.3	1.3	1.6
20%	1.1	1.1	1.1	1.6	1.9	1.8	1.1	1.0	1.0	1.1	1.3	1.3
30%	1.1	1.0	1.1	1.4	1.5	1.4	1.0	0.9	0.9	1.1	1.2	1.3
40%	1.1	1.0	1.0	1.2	1.2	1.2	0.9	0.9	0.9	1.1	1.2	1.2
50%	1.0	1.0	1.0	1.0	1.1	1.2	0.9	0.9	0.9	1.1	1.2	1.2
60%	1.0	0.9	1.0	1.0	1.0	1.1	0.8	0.8	0.9	1.1	1.1	1.2
70%	1.0	0.8	0.9	0.9	1.0	0.9	0.8	0.8	0.9	1.0	1.1	1.2
80%	1.0	0.8	0.8	0.8	0.9	0.8	0.8	0.7	0.9	1.0	1.1	1.1
90%	1.0	0.8	0.7	0.8	0.8	0.8	0.6	0.7	0.8	0.9	1.0	1.1
Long Term												
Full Simulation Period[a]	1.1	1.0	1.1	1.2	1.4	1.4	1.0	0.9	1.0	1.1	1.2	1.3
Water Year Types[b]												
Wet (31%)	1.2	1.4	1.6	1.6	2.2	2.2	1.5	1.2	1.2	1.3	1.3	1.6
Above Normal (25%)	1.0	0.9	1.0	1.9	2.1	1.7	1.2	1.0	0.9	1.1	1.2	1.2
Below Normal (6%)	1.1	1.0	0.8	1.3	1.3	1.3	0.9	0.9	0.9	1.0	1.1	1.1
Dry (13%)	1.0	0.9	0.9	0.9	0.9	1.0	0.8	0.8	0.9	1.0	1.1	1.1
Critical (25%)	1.0	0.9	0.9	0.9	0.9	0.8	0.7	0.7	0.8	1.1	1.2	1.2

Alternative 8 (LLT) minus Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.9
20%	1.9	1.9	1.8	1.8	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8
30%	1.9	1.8	1.9	1.8	1.8	1.7	1.7	1.8	1.8	1.8	1.8	1.8
40%	1.8	1.9	1.9	1.8	1.8	1.8	1.8	1.7	1.8	1.9	1.8	1.8
50%	1.8	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
60%	1.8	1.8	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
70%	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
80%	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.9	1.8	1.8
90%	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Long Term												
Full Simulation Period[a]	1.8	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Water Year Types[b]												
Wet (31%)	1.8	1.8	1.9	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.8	1.9
Above Normal (25%)	1.8	1.8	1.9	1.8	1.8	1.7	1.7	1.8	1.8	1.8	1.8	1.9
Below Normal (6%)	1.9	1.9	1.9	1.8	1.8	1.8	1.7	1.7	1.8	1.8	1.8	1.8
Dry (13%)	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.9	1.8	1.8
Critical (25%)	1.8	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-28-2-13. Mokelumne River at Terminous, Monthly Averaged Daily Minimum Elevation

Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	-0.5	-0.4	-0.1	0.1	0.8	0.4	0.0	-0.5	-0.7	-0.5	-0.5	-0.3
20%	-0.7	-0.7	-0.7	-0.2	0.1	0.0	-0.7	-0.8	-0.8	-0.7	-0.5	-0.5
30%	-0.8	-0.8	-0.9	-0.4	-0.3	-0.3	-0.8	-0.8	-0.9	-0.7	-0.5	-0.5
40%	-0.8	-0.9	-0.9	-0.7	-0.6	-0.6	-0.8	-0.9	-0.9	-0.8	-0.6	-0.6
50%	-0.8	-0.9	-0.9	-0.8	-0.8	-0.6	-0.9	-0.9	-0.9	-0.8	-0.6	-0.6
60%	-0.8	-1.0	-0.9	-0.9	-0.8	-0.7	-0.9	-1.0	-0.9	-0.8	-0.6	-0.6
70%	-0.8	-1.0	-1.0	-0.9	-0.8	-0.9	-1.0	-1.0	-0.9	-0.8	-0.7	-0.7
80%	-0.9	-1.1	-1.1	-1.0	-1.0	-1.0	-1.0	-1.1	-0.9	-0.9	-0.7	-0.7
90%	-0.9	-1.1	-1.2	-1.1	-1.0	-1.0	-1.2	-1.1	-1.0	-0.9	-0.8	-0.7
Long Term												
Full Simulation Period[a]	-0.8	-0.8	-0.8	-0.6	-0.4	-0.4	-0.7	-0.8	-0.8	-0.7	-0.6	-0.5
Water Year Types[b]												
Wet (31%)	-0.6	-0.4	-0.2	-0.2	0.4	0.5	-0.2	-0.5	-0.5	-0.5	-0.5	-0.3
Above Normal (25%)	-0.8	-1.0	-0.9	0.1	0.3	0.0	-0.5	-0.7	-0.9	-0.7	-0.6	-0.7
Below Normal (6%)	-0.7	-0.9	-1.1	-0.6	-0.5	-0.5	-0.8	-0.9	-0.9	-0.9	-0.7	-0.7
Dry (13%)	-0.9	-1.0	-1.0	-1.0	-0.9	-0.8	-1.0	-1.0	-0.9	-0.8	-0.7	-0.7
Critical (25%)	-0.8	-0.9	-1.0	-1.0	-0.9	-1.0	-1.0	-1.1	-1.0	-0.8	-0.6	-0.6

Alternative 9 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.2	1.4	1.6	1.9	2.5	2.0	1.7	1.2	1.1	1.4	1.3	1.6
20%	1.2	1.1	1.1	1.6	1.9	1.8	1.1	1.0	0.9	1.2	1.3	1.3
30%	1.1	1.0	1.0	1.4	1.5	1.5	1.0	0.9	0.9	1.1	1.3	1.3
40%	1.0	1.0	1.0	1.2	1.2	1.2	0.9	0.9	0.9	1.1	1.3	1.2
50%	1.0	0.9	1.0	1.0	1.1	1.2	0.9	0.8	0.9	1.1	1.2	1.2
60%	1.0	0.8	0.9	1.0	1.0	1.0	0.9	0.8	0.9	1.1	1.2	1.2
70%	1.0	0.8	0.8	0.9	1.0	0.9	0.8	0.8	0.9	1.1	1.1	1.2
80%	1.0	0.8	0.7	0.8	0.9	0.8	0.8	0.7	0.8	1.0	1.1	1.1
90%	0.9	0.7	0.6	0.7	0.8	0.8	0.6	0.6	0.8	1.0	1.1	1.1
Long Term												
Full Simulation Period[a]	1.1	1.0	1.0	1.2	1.4	1.4	1.0	0.9	0.9	1.1	1.2	1.3
Water Year Types[b]												
Wet (31%)	1.2	1.3	1.6	1.6	2.1	2.2	1.5	1.2	1.2	1.3	1.3	1.5
Above Normal (25%)	1.0	0.8	1.0	1.9	2.2	1.7	1.2	1.0	0.8	1.1	1.2	1.3
Below Normal (6%)	1.2	1.0	0.7	1.3	1.3	1.3	1.0	0.8	0.9	1.0	1.1	1.1
Dry (13%)	1.0	0.8	0.8	0.9	0.9	1.0	0.8	0.9	0.9	1.1	1.2	1.2
Critical (25%)	1.0	0.9	0.9	0.9	0.9	0.8	0.7	0.7	0.8	1.1	1.2	1.2

Alternative 9 (LLT) minus Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.8	1.7	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.9	1.8	1.9
20%	1.9	1.8	1.8	1.8	1.9	1.8	1.8	1.8	1.7	1.8	1.8	1.8
30%	1.8	1.8	1.9	1.8	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8
40%	1.8	1.9	1.8	1.8	1.8	1.8	1.8	1.7	1.8	1.9	1.9	1.8
50%	1.8	1.8	1.8	1.9	1.9	1.8	1.8	1.8	1.8	1.9	1.8	1.8
60%	1.8	1.8	1.8	1.9	1.8	1.8	1.8	1.8	1.8	1.9	1.8	1.8
70%	1.8	1.8	1.8	1.9	1.8	1.8	1.8	1.8	1.8	1.9	1.8	1.8
80%	1.8	1.8	1.8	1.9	1.8	1.8	1.8	1.8	1.8	1.9	1.8	1.8
90%	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.8	1.9	1.8
Long Term												
Full Simulation Period[a]	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.8	1.8	1.8
Water Year Types[b]												
Wet (31%)	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.8
Above Normal (25%)	1.8	1.8	1.9	1.8	1.8	1.8	1.7	1.7	1.7	1.8	1.8	1.9
Below Normal (6%)	1.9	1.9	1.8	1.9	1.8	1.8	1.7	1.7	1.8	1.8	1.8	1.8
Dry (13%)	1.8	1.8	1.8	1.9	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.8
Critical (25%)	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.8	1.8

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-28-2-14. Mokelumne River at Terminous, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.8	0.9	1.1	1.4	2.1	1.6	1.3	0.8	0.6	0.8	0.9	1.0
20%	0.6	0.5	0.6	1.1	1.4	1.4	0.6	0.5	0.5	0.7	0.8	0.9
30%	0.6	0.5	0.5	0.9	1.0	1.0	0.5	0.4	0.4	0.6	0.7	0.8
40%	0.6	0.5	0.4	0.6	0.7	0.7	0.5	0.4	0.4	0.6	0.7	0.8
50%	0.6	0.4	0.4	0.5	0.5	0.7	0.4	0.4	0.4	0.6	0.7	0.7
60%	0.5	0.3	0.4	0.4	0.5	0.6	0.4	0.3	0.4	0.5	0.6	0.7
70%	0.5	0.3	0.3	0.4	0.5	0.4	0.3	0.3	0.4	0.5	0.6	0.7
80%	0.5	0.3	0.2	0.2	0.3	0.3	0.3	0.2	0.4	0.5	0.6	0.7
90%	0.5	0.2	0.1	0.2	0.3	0.2	0.1	0.2	0.3	0.5	0.5	0.6
Long Term												
Full Simulation Period[a]	0.6	0.5	0.5	0.7	0.9	0.9	0.5	0.4	0.4	0.6	0.7	0.8
Water Year Types[b]												
Wet (31%)	0.7	0.8	1.1	1.1	1.7	1.8	1.0	0.7	0.7	0.8	0.8	1.0
Above Normal (25%)	0.6	0.3	0.5	1.4	1.7	1.3	0.7	0.6	0.4	0.6	0.7	0.7
Below Normal (6%)	0.6	0.5	0.2	0.7	0.8	0.8	0.5	0.4	0.4	0.4	0.6	0.6
Dry (13%)	0.5	0.3	0.3	0.3	0.4	0.5	0.3	0.3	0.4	0.5	0.6	0.7
Critical (25%)	0.5	0.4	0.3	0.3	0.4	0.3	0.3	0.2	0.3	0.6	0.7	0.7

Alternative 1A,1B,1C (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.2	1.4	1.6	1.8	2.6	2.1	1.7	1.2	1.1	1.3	1.3	1.4
20%	1.1	1.0	1.1	1.6	1.9	1.8	1.0	1.0	1.0	1.1	1.3	1.3
30%	1.1	1.0	1.0	1.3	1.5	1.5	0.9	0.9	0.9	1.1	1.2	1.2
40%	1.0	0.9	0.9	1.1	1.2	1.2	0.9	0.9	0.9	1.1	1.2	1.2
50%	1.0	0.9	0.9	1.0	1.0	1.1	0.9	0.8	0.9	1.1	1.1	1.2
60%	1.0	0.8	0.9	0.9	1.0	1.0	0.8	0.8	0.9	1.0	1.1	1.2
70%	1.0	0.8	0.8	0.9	0.9	0.9	0.8	0.8	0.9	1.0	1.1	1.1
80%	1.0	0.8	0.7	0.8	0.8	0.7	0.7	0.7	0.8	1.0	1.1	1.1
90%	0.9	0.7	0.6	0.7	0.8	0.7	0.6	0.6	0.8	0.9	1.0	1.0
Long Term												
Full Simulation Period[a]	1.1	1.0	1.0	1.2	1.4	1.3	1.0	0.9	0.9	1.1	1.2	1.2
Water Year Types[b]												
Wet (31%)	1.2	1.3	1.6	1.6	2.2	2.2	1.4	1.2	1.2	1.3	1.3	1.4
Above Normal (25%)	1.0	0.8	0.9	1.8	2.2	1.7	1.1	1.0	0.9	1.0	1.2	1.1
Below Normal (6%)	1.1	0.9	0.7	1.2	1.3	1.3	0.9	0.8	0.9	1.0	1.1	1.1
Dry (13%)	1.0	0.8	0.8	0.8	0.8	1.0	0.8	0.8	0.9	1.0	1.1	1.1
Critical (25%)	1.0	0.9	0.8	0.8	0.9	0.8	0.7	0.7	0.8	1.1	1.2	1.2

Alternative 1A,1B,1C (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.5	0.5	0.6	0.5	0.4	0.5	0.4	0.4	0.5	0.5	0.4	0.4
20%	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.4
30%	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.5	0.4
40%	0.5	0.4	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.4
50%	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4
60%	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.4
70%	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4
80%	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.4
90%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4
Long Term												
Full Simulation Period[a]	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.4
Water Year Types[b]												
Wet (31%)	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.5	0.4
Above Normal (25%)	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.5	0.4
Below Normal (6%)	0.5	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.4	0.5
Dry (13%)	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Critical (25%)	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.4	0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-28-2-15. Mokelumne River at Terminous, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.8	0.9	1.1	1.4	2.1	1.6	1.3	0.8	0.6	0.8	0.9	1.0
20%	0.6	0.5	0.6	1.1	1.4	1.4	0.6	0.5	0.5	0.7	0.8	0.9
30%	0.6	0.5	0.5	0.9	1.0	1.0	0.5	0.4	0.4	0.6	0.7	0.8
40%	0.6	0.5	0.4	0.6	0.7	0.7	0.5	0.4	0.4	0.6	0.7	0.8
50%	0.6	0.4	0.4	0.5	0.5	0.7	0.4	0.4	0.4	0.6	0.7	0.7
60%	0.5	0.3	0.4	0.4	0.5	0.6	0.4	0.3	0.4	0.5	0.6	0.7
70%	0.5	0.3	0.3	0.4	0.5	0.4	0.3	0.3	0.4	0.5	0.6	0.7
80%	0.5	0.3	0.2	0.2	0.3	0.3	0.3	0.2	0.4	0.5	0.6	0.7
90%	0.5	0.2	0.1	0.2	0.3	0.2	0.1	0.2	0.3	0.5	0.5	0.6
Long Term												
Full Simulation Period[a]	0.6	0.5	0.5	0.7	0.9	0.9	0.5	0.4	0.4	0.6	0.7	0.8
Water Year Types[b]												
Wet (31%)	0.7	0.8	1.1	1.1	1.7	1.8	1.0	0.7	0.7	0.8	0.8	1.0
Above Normal (25%)	0.6	0.3	0.5	1.4	1.7	1.3	0.7	0.6	0.4	0.6	0.7	0.7
Below Normal (6%)	0.6	0.5	0.2	0.7	0.8	0.8	0.5	0.4	0.4	0.4	0.6	0.6
Dry (13%)	0.5	0.3	0.3	0.3	0.4	0.5	0.3	0.3	0.4	0.5	0.6	0.7
Critical (25%)	0.5	0.4	0.3	0.3	0.4	0.3	0.3	0.2	0.3	0.6	0.7	0.7

Alternative 2A,2B,2C (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.2	1.4	1.6	1.8	2.6	2.1	1.7	1.2	1.1	1.3	1.3	1.5
20%	1.1	1.0	1.0	1.6	1.9	1.8	1.1	1.0	0.9	1.1	1.3	1.3
30%	1.1	1.0	1.0	1.3	1.5	1.4	0.9	0.9	0.9	1.1	1.2	1.3
40%	1.1	1.0	1.0	1.1	1.2	1.2	0.9	0.9	0.9	1.1	1.2	1.2
50%	1.0	0.9	0.9	1.0	1.0	1.1	0.9	0.8	0.9	1.0	1.1	1.2
60%	1.0	0.8	0.9	1.0	1.0	1.0	0.8	0.8	0.9	1.0	1.1	1.2
70%	1.0	0.8	0.8	0.9	0.9	0.9	0.8	0.8	0.8	1.0	1.1	1.2
80%	1.0	0.8	0.7	0.8	0.8	0.7	0.8	0.7	0.8	0.9	1.0	1.1
90%	0.9	0.8	0.6	0.8	0.8	0.7	0.6	0.6	0.8	0.9	1.0	1.0
Long Term												
Full Simulation Period[a]	1.1	1.0	1.0	1.2	1.4	1.3	1.0	0.9	0.9	1.1	1.2	1.3
Water Year Types[b]												
Wet (31%)	1.2	1.3	1.6	1.6	2.2	2.2	1.5	1.2	1.2	1.3	1.3	1.5
Above Normal (25%)	1.0	0.8	1.0	1.8	2.1	1.7	1.1	1.0	0.9	1.0	1.1	1.2
Below Normal (6%)	1.1	0.9	0.7	1.2	1.2	1.2	0.9	0.8	0.9	0.9	1.0	1.1
Dry (13%)	1.0	0.8	0.9	0.8	0.9	0.9	0.8	0.8	0.9	1.0	1.1	1.1
Critical (25%)	1.0	0.9	0.8	0.9	0.9	0.8	0.7	0.7	0.8	1.1	1.1	1.2

Alternative 2A,2B,2C (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.5
20%	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.4
30%	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.4	0.5	0.4
40%	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.4
50%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5
60%	0.4	0.5	0.5	0.6	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5
70%	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80%	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4
90%	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4
Long Term												
Full Simulation Period[a]	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5
Water Year Types[b]												
Wet (31%)	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.5	0.5	0.5	0.5
Above Normal (25%)	0.4	0.5	0.5	0.4	0.4	0.5	0.4	0.4	0.5	0.4	0.5	0.5
Below Normal (6%)	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.5	0.4	0.5	0.4	0.5
Dry (13%)	0.5	0.5	0.6	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.4
Critical (25%)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-28-2-16. Mokelumne River at Terminous, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.8	0.9	1.1	1.4	2.1	1.6	1.3	0.8	0.6	0.8	0.9	1.0
20%	0.6	0.5	0.6	1.1	1.4	1.4	0.6	0.5	0.5	0.7	0.8	0.9
30%	0.6	0.5	0.5	0.9	1.0	1.0	0.5	0.4	0.4	0.6	0.7	0.8
40%	0.6	0.5	0.4	0.6	0.7	0.7	0.5	0.4	0.4	0.6	0.7	0.8
50%	0.6	0.4	0.4	0.5	0.5	0.7	0.4	0.4	0.4	0.6	0.7	0.7
60%	0.5	0.3	0.4	0.4	0.5	0.6	0.4	0.3	0.4	0.5	0.6	0.7
70%	0.5	0.3	0.3	0.4	0.5	0.4	0.3	0.3	0.4	0.5	0.6	0.7
80%	0.5	0.3	0.2	0.2	0.3	0.3	0.3	0.2	0.4	0.5	0.6	0.7
90%	0.5	0.2	0.1	0.2	0.3	0.2	0.1	0.2	0.3	0.5	0.5	0.6
Long Term												
Full Simulation Period[a]	0.6	0.5	0.5	0.7	0.9	0.9	0.5	0.4	0.4	0.6	0.7	0.8
Water Year Types[b]												
Wet (31%)	0.7	0.8	1.1	1.1	1.7	1.8	1.0	0.7	0.7	0.8	0.8	1.0
Above Normal (25%)	0.6	0.3	0.5	1.4	1.7	1.3	0.7	0.6	0.4	0.6	0.7	0.7
Below Normal (6%)	0.6	0.5	0.2	0.7	0.8	0.8	0.5	0.4	0.4	0.4	0.6	0.6
Dry (13%)	0.5	0.3	0.3	0.3	0.4	0.5	0.3	0.3	0.4	0.5	0.6	0.7
Critical (25%)	0.5	0.4	0.3	0.3	0.4	0.3	0.3	0.2	0.3	0.6	0.7	0.7

Alternative 3 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.3	1.4	1.6	1.8	2.6	2.1	1.7	1.2	1.1	1.3	1.3	1.4
20%	1.1	1.0	1.0	1.6	1.9	1.8	1.0	1.0	0.9	1.1	1.3	1.3
30%	1.1	1.0	1.0	1.3	1.5	1.4	0.9	0.9	0.9	1.1	1.2	1.2
40%	1.0	0.9	0.9	1.1	1.2	1.1	0.9	0.9	0.9	1.1	1.2	1.2
50%	1.0	0.9	0.9	1.0	1.0	1.1	0.9	0.8	0.9	1.1	1.2	1.2
60%	1.0	0.8	0.9	0.9	1.0	1.0	0.8	0.8	0.9	1.0	1.1	1.2
70%	1.0	0.8	0.8	0.9	0.9	0.9	0.8	0.8	0.9	1.0	1.1	1.1
80%	1.0	0.8	0.7	0.8	0.8	0.7	0.7	0.7	0.8	1.0	1.1	1.1
90%	0.9	0.7	0.6	0.8	0.8	0.7	0.6	0.6	0.8	0.9	1.0	1.0
Long Term												
Full Simulation Period[a]	1.1	1.0	1.0	1.2	1.4	1.3	1.0	0.9	0.9	1.1	1.2	1.2
Water Year Types[b]												
Wet (31%)	1.2	1.3	1.6	1.6	2.2	2.2	1.4	1.2	1.2	1.3	1.3	1.4
Above Normal (25%)	1.0	0.8	0.9	1.8	2.1	1.7	1.1	1.0	0.9	1.0	1.2	1.1
Below Normal (6%)	1.1	0.9	0.7	1.2	1.2	1.3	0.9	0.8	0.9	1.0	1.1	1.1
Dry (13%)	1.0	0.8	0.8	0.8	0.8	1.0	0.8	0.8	0.9	1.0	1.1	1.1
Critical (25%)	1.0	0.9	0.8	0.9	0.9	0.8	0.7	0.7	0.8	1.1	1.2	1.2

Alternative 3 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.4
20%	0.5	0.5	0.5	0.5	0.4	0.5	0.4	0.5	0.5	0.5	0.5	0.4
30%	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.5	0.5	0.5	0.4
40%	0.5	0.4	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.4
50%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
60%	0.4	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5
70%	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80%	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.4
90%	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4
Long Term												
Full Simulation Period[a]	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.4
Water Year Types[b]												
Wet (31%)	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.5	0.5	0.5	0.4
Above Normal (25%)	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.4
Below Normal (6%)	0.5	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.5	0.5
Dry (13%)	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Critical (25%)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-28-2-17. Mokelumne River at Terminous, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.8	0.9	1.1	1.4	2.1	1.6	1.3	0.8	0.6	0.8	0.9	1.0
20%	0.6	0.5	0.6	1.1	1.4	1.4	0.6	0.5	0.5	0.7	0.8	0.9
30%	0.6	0.5	0.5	0.9	1.0	1.0	0.5	0.4	0.4	0.6	0.7	0.8
40%	0.6	0.5	0.4	0.6	0.7	0.7	0.5	0.4	0.4	0.6	0.7	0.8
50%	0.6	0.4	0.4	0.5	0.5	0.7	0.4	0.4	0.4	0.6	0.7	0.7
60%	0.5	0.3	0.4	0.4	0.5	0.6	0.4	0.3	0.4	0.5	0.6	0.7
70%	0.5	0.3	0.3	0.4	0.5	0.4	0.3	0.3	0.4	0.5	0.6	0.7
80%	0.5	0.3	0.2	0.2	0.3	0.3	0.3	0.2	0.4	0.5	0.6	0.7
90%	0.5	0.2	0.1	0.2	0.3	0.2	0.1	0.2	0.3	0.5	0.5	0.6
Long Term												
Full Simulation Period[a]	0.6	0.5	0.5	0.7	0.9	0.9	0.5	0.4	0.4	0.6	0.7	0.8
Water Year Types[b]												
Wet (31%)	0.7	0.8	1.1	1.1	1.7	1.8	1.0	0.7	0.7	0.8	0.8	1.0
Above Normal (25%)	0.6	0.3	0.5	1.4	1.7	1.3	0.7	0.6	0.4	0.6	0.7	0.7
Below Normal (6%)	0.6	0.5	0.2	0.7	0.8	0.8	0.5	0.4	0.4	0.4	0.6	0.6
Dry (13%)	0.5	0.3	0.3	0.3	0.4	0.5	0.3	0.3	0.4	0.5	0.6	0.7
Critical (25%)	0.5	0.4	0.3	0.3	0.4	0.3	0.3	0.2	0.3	0.6	0.7	0.7

Alternative 4 H1 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.2	1.4	1.6	1.8	2.6	2.1	1.7	1.2	1.1	1.3	1.3	1.4
20%	1.1	1.1	1.0	1.6	1.9	1.8	1.1	1.0	0.9	1.1	1.3	1.3
30%	1.1	1.0	1.0	1.3	1.5	1.4	0.9	0.9	0.9	1.1	1.2	1.2
40%	1.1	0.9	1.0	1.1	1.2	1.2	0.9	0.9	0.9	1.1	1.2	1.2
50%	1.0	0.9	0.9	1.0	1.0	1.1	0.9	0.8	0.9	1.0	1.1	1.2
60%	1.0	0.8	0.9	1.0	1.0	1.0	0.8	0.8	0.9	1.0	1.1	1.1
70%	1.0	0.8	0.8	0.9	0.9	0.9	0.8	0.8	0.8	1.0	1.1	1.1
80%	0.9	0.8	0.7	0.8	0.8	0.7	0.8	0.7	0.8	0.9	1.0	1.1
90%	0.9	0.7	0.6	0.8	0.8	0.7	0.6	0.6	0.8	0.9	1.0	1.0
Long Term												
Full Simulation Period[a]	1.0	1.0	1.0	1.2	1.4	1.3	1.0	0.9	0.9	1.1	1.2	1.2
Water Year Types[b]												
Wet (31%)	1.2	1.3	1.6	1.6	2.2	2.2	1.5	1.2	1.2	1.2	1.3	1.4
Above Normal (25%)	1.0	0.8	1.0	1.8	2.1	1.7	1.1	1.0	0.9	1.0	1.1	1.1
Below Normal (6%)	1.1	0.9	0.7	1.2	1.2	1.3	0.9	0.8	0.9	0.9	1.0	1.1
Dry (13%)	1.0	0.8	0.9	0.8	0.9	1.0	0.8	0.8	0.9	1.0	1.1	1.1
Critical (25%)	1.0	0.8	0.8	0.9	0.9	0.8	0.7	0.7	0.8	1.1	1.1	1.2

Alternative 4 H1 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.4
20%	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.4	0.5	0.4
30%	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.4	0.5	0.4
40%	0.5	0.4	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.4
50%	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4
60%	0.4	0.5	0.5	0.6	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.4
70%	0.4	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4
80%	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4
90%	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4
Long Term												
Full Simulation Period[a]	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4
Water Year Types[b]												
Wet (31%)	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.4	0.5	0.4
Above Normal (25%)	0.4	0.5	0.5	0.4	0.4	0.5	0.4	0.4	0.5	0.4	0.5	0.4
Below Normal (6%)	0.5	0.4	0.5	0.5	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.5
Dry (13%)	0.4	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4
Critical (25%)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-28-2-18. Mokelumne River at Terminous, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.8	0.9	1.1	1.4	2.1	1.6	1.3	0.8	0.6	0.8	0.9	1.0
20%	0.6	0.5	0.6	1.1	1.4	1.4	0.6	0.5	0.5	0.7	0.8	0.9
30%	0.6	0.5	0.5	0.9	1.0	1.0	0.5	0.4	0.4	0.6	0.7	0.8
40%	0.6	0.5	0.4	0.6	0.7	0.7	0.5	0.4	0.4	0.6	0.7	0.8
50%	0.6	0.4	0.4	0.5	0.5	0.7	0.4	0.4	0.4	0.6	0.7	0.7
60%	0.5	0.3	0.4	0.4	0.5	0.6	0.4	0.3	0.4	0.5	0.6	0.7
70%	0.5	0.3	0.3	0.4	0.5	0.4	0.3	0.3	0.4	0.5	0.6	0.7
80%	0.5	0.3	0.2	0.2	0.3	0.3	0.3	0.2	0.4	0.5	0.6	0.7
90%	0.5	0.2	0.1	0.2	0.3	0.2	0.1	0.2	0.3	0.5	0.5	0.6
Long Term												
Full Simulation Period[a]	0.6	0.5	0.5	0.7	0.9	0.9	0.5	0.4	0.4	0.6	0.7	0.8
Water Year Types[b]												
Wet (31%)	0.7	0.8	1.1	1.1	1.7	1.8	1.0	0.7	0.7	0.8	0.8	1.0
Above Normal (25%)	0.6	0.3	0.5	1.4	1.7	1.3	0.7	0.6	0.4	0.6	0.7	0.7
Below Normal (6%)	0.6	0.5	0.2	0.7	0.8	0.8	0.5	0.4	0.4	0.4	0.6	0.6
Dry (13%)	0.5	0.3	0.3	0.3	0.4	0.5	0.3	0.3	0.4	0.5	0.6	0.7
Critical (25%)	0.5	0.4	0.3	0.3	0.4	0.3	0.3	0.2	0.3	0.6	0.7	0.7

Alternative 4 H2 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.2	1.4	1.6	1.8	2.6	2.1	1.7	1.2	1.1	1.3	1.3	1.4
20%	1.1	1.1	1.0	1.6	1.9	1.8	1.1	1.0	0.9	1.1	1.3	1.3
30%	1.1	1.0	1.0	1.3	1.5	1.4	1.0	0.9	0.9	1.1	1.2	1.2
40%	1.1	0.9	1.0	1.1	1.2	1.2	0.9	0.9	0.9	1.1	1.2	1.2
50%	1.0	0.9	0.9	1.0	1.0	1.1	0.9	0.8	0.9	1.1	1.1	1.2
60%	1.0	0.8	0.9	1.0	1.0	1.0	0.9	0.8	0.9	1.0	1.1	1.1
70%	1.0	0.8	0.8	0.9	0.9	0.9	0.8	0.8	0.8	1.0	1.1	1.1
80%	1.0	0.8	0.7	0.8	0.8	0.8	0.8	0.7	0.8	1.0	1.0	1.1
90%	0.9	0.7	0.7	0.8	0.8	0.7	0.6	0.6	0.8	0.9	1.0	1.0
Long Term												
Full Simulation Period[a]	1.0	1.0	1.1	1.2	1.4	1.3	1.0	0.9	0.9	1.1	1.2	1.2
Water Year Types[b]												
Wet (31%)	1.2	1.3	1.6	1.6	2.2	2.2	1.5	1.2	1.2	1.3	1.3	1.4
Above Normal (25%)	1.0	0.8	1.0	1.8	2.2	1.7	1.2	1.0	0.9	1.1	1.2	1.1
Below Normal (6%)	1.1	0.9	0.7	1.2	1.2	1.2	0.9	0.8	0.9	0.9	1.0	1.1
Dry (13%)	1.0	0.8	0.9	0.8	0.9	1.0	0.8	0.8	0.9	1.0	1.1	1.1
Critical (25%)	1.0	0.8	0.8	0.9	0.9	0.8	0.7	0.7	0.8	1.1	1.1	1.2

Alternative 4 H2 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.5	0.5	0.6	0.5	0.4	0.5	0.4	0.4	0.5	0.5	0.4	0.4
20%	0.4	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.4
30%	0.4	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.4
40%	0.5	0.4	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.4
50%	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4
60%	0.4	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4
70%	0.4	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4
80%	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4
90%	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4
Long Term												
Full Simulation Period[a]	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4
Water Year Types[b]												
Wet (31%)	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.4
Above Normal (25%)	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4
Below Normal (6%)	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.5	0.4	0.5
Dry (13%)	0.4	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4
Critical (25%)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-28-2-19. Mokelumne River at Terminous, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.8	0.9	1.1	1.4	2.1	1.6	1.3	0.8	0.6	0.8	0.9	1.0
20%	0.6	0.5	0.6	1.1	1.4	1.4	0.6	0.5	0.5	0.7	0.8	0.9
30%	0.6	0.5	0.5	0.9	1.0	1.0	0.5	0.4	0.4	0.6	0.7	0.8
40%	0.6	0.5	0.4	0.6	0.7	0.7	0.5	0.4	0.4	0.6	0.7	0.8
50%	0.6	0.4	0.4	0.5	0.5	0.7	0.4	0.4	0.4	0.6	0.7	0.7
60%	0.5	0.3	0.4	0.4	0.5	0.6	0.4	0.3	0.4	0.5	0.6	0.7
70%	0.5	0.3	0.3	0.4	0.5	0.4	0.3	0.3	0.4	0.5	0.6	0.7
80%	0.5	0.3	0.2	0.2	0.3	0.3	0.3	0.2	0.4	0.5	0.6	0.7
90%	0.5	0.2	0.1	0.2	0.3	0.2	0.1	0.2	0.3	0.5	0.5	0.6
Long Term												
Full Simulation Period[a]	0.6	0.5	0.5	0.7	0.9	0.9	0.5	0.4	0.4	0.6	0.7	0.8
Water Year Types[b]												
Wet (31%)	0.7	0.8	1.1	1.1	1.7	1.8	1.0	0.7	0.7	0.8	0.8	1.0
Above Normal (25%)	0.6	0.3	0.5	1.4	1.7	1.3	0.7	0.6	0.4	0.6	0.7	0.7
Below Normal (6%)	0.6	0.5	0.2	0.7	0.8	0.8	0.5	0.4	0.4	0.4	0.6	0.6
Dry (13%)	0.5	0.3	0.3	0.3	0.4	0.5	0.3	0.3	0.4	0.5	0.6	0.7
Critical (25%)	0.5	0.4	0.3	0.3	0.4	0.3	0.3	0.2	0.3	0.6	0.7	0.7

Alternative 4 H3 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.2	1.4	1.6	1.8	2.5	2.1	1.7	1.2	1.1	1.3	1.3	1.5
20%	1.1	1.1	1.1	1.6	1.9	1.8	1.1	1.0	0.9	1.1	1.3	1.3
30%	1.1	1.0	1.0	1.3	1.5	1.4	0.9	0.9	0.9	1.1	1.2	1.3
40%	1.1	1.0	1.0	1.1	1.2	1.1	0.9	0.9	0.9	1.1	1.2	1.2
50%	1.0	0.9	0.9	1.0	1.0	1.1	0.9	0.8	0.9	1.0	1.1	1.2
60%	1.0	0.8	0.9	1.0	1.0	1.0	0.8	0.8	0.9	1.0	1.1	1.2
70%	1.0	0.8	0.8	0.9	0.9	0.9	0.8	0.8	0.8	1.0	1.1	1.2
80%	0.9	0.8	0.7	0.8	0.8	0.7	0.8	0.7	0.8	0.9	1.0	1.1
90%	0.9	0.7	0.7	0.8	0.8	0.7	0.6	0.6	0.8	0.9	1.0	1.0
Long Term												
Full Simulation Period[a]	1.1	1.0	1.0	1.2	1.4	1.3	1.0	0.9	0.9	1.1	1.2	1.3
Water Year Types[b]												
Wet (31%)	1.2	1.3	1.6	1.6	2.2	2.2	1.5	1.2	1.2	1.2	1.3	1.6
Above Normal (25%)	1.0	0.8	1.0	1.8	2.1	1.7	1.1	1.0	0.9	1.0	1.1	1.2
Below Normal (6%)	1.1	0.9	0.7	1.2	1.2	1.2	0.9	0.8	0.9	0.9	1.0	1.1
Dry (13%)	1.0	0.8	0.9	0.8	0.9	1.0	0.8	0.8	0.9	1.0	1.1	1.1
Critical (25%)	1.0	0.9	0.8	0.9	0.9	0.8	0.7	0.7	0.8	1.1	1.1	1.2

Alternative 4 H3 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.5
20%	0.4	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.4
30%	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.4	0.5	0.4
40%	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5
50%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5
60%	0.5	0.5	0.5	0.6	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.5
70%	0.4	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80%	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4
90%	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4
Long Term												
Full Simulation Period[a]	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5
Water Year Types[b]												
Wet (31%)	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.4	0.5	0.5
Above Normal (25%)	0.4	0.5	0.5	0.4	0.4	0.5	0.4	0.4	0.5	0.4	0.5	0.5
Below Normal (6%)	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.5
Dry (13%)	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4
Critical (25%)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-28-2-20. Mokelumne River at Terminous, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.8	0.9	1.1	1.4	2.1	1.6	1.3	0.8	0.6	0.8	0.9	1.0
20%	0.6	0.5	0.6	1.1	1.4	1.4	0.6	0.5	0.5	0.7	0.8	0.9
30%	0.6	0.5	0.5	0.9	1.0	1.0	0.5	0.4	0.4	0.6	0.7	0.8
40%	0.6	0.5	0.4	0.6	0.7	0.7	0.5	0.4	0.4	0.6	0.7	0.8
50%	0.6	0.4	0.4	0.5	0.5	0.7	0.4	0.4	0.4	0.6	0.7	0.7
60%	0.5	0.3	0.4	0.4	0.5	0.6	0.4	0.3	0.4	0.5	0.6	0.7
70%	0.5	0.3	0.3	0.4	0.5	0.4	0.3	0.3	0.4	0.5	0.6	0.7
80%	0.5	0.3	0.2	0.2	0.3	0.3	0.3	0.2	0.4	0.5	0.6	0.7
90%	0.5	0.2	0.1	0.2	0.3	0.2	0.1	0.2	0.3	0.5	0.5	0.6
Long Term												
Full Simulation Period[a]	0.6	0.5	0.5	0.7	0.9	0.9	0.5	0.4	0.4	0.6	0.7	0.8
Water Year Types[b]												
Wet (31%)	0.7	0.8	1.1	1.1	1.7	1.8	1.0	0.7	0.7	0.8	0.8	1.0
Above Normal (25%)	0.6	0.3	0.5	1.4	1.7	1.3	0.7	0.6	0.4	0.6	0.7	0.7
Below Normal (6%)	0.6	0.5	0.2	0.7	0.8	0.8	0.5	0.4	0.4	0.4	0.6	0.6
Dry (13%)	0.5	0.3	0.3	0.3	0.4	0.5	0.3	0.3	0.4	0.5	0.6	0.7
Critical (25%)	0.5	0.4	0.3	0.3	0.4	0.3	0.3	0.2	0.3	0.6	0.7	0.7

Alternative 4 H4 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.2	1.3	1.6	1.8	2.5	2.1	1.7	1.2	1.1	1.3	1.3	1.6
20%	1.1	1.0	1.0	1.6	1.9	1.8	1.1	1.0	0.9	1.1	1.3	1.3
30%	1.1	1.0	1.0	1.3	1.5	1.4	1.0	0.9	0.9	1.1	1.2	1.3
40%	1.1	1.0	1.0	1.1	1.2	1.2	0.9	0.9	0.9	1.1	1.2	1.2
50%	1.0	0.9	0.9	1.0	1.0	1.1	0.9	0.8	0.9	1.1	1.1	1.2
60%	1.0	0.8	0.9	1.0	1.0	1.0	0.9	0.8	0.9	1.0	1.1	1.2
70%	1.0	0.8	0.8	0.9	0.9	0.9	0.8	0.8	0.8	1.0	1.1	1.2
80%	1.0	0.8	0.7	0.8	0.8	0.7	0.8	0.7	0.8	1.0	1.1	1.1
90%	0.9	0.8	0.6	0.8	0.8	0.7	0.6	0.6	0.8	0.9	1.0	1.0
Long Term												
Full Simulation Period[a]	1.1	1.0	1.0	1.2	1.4	1.3	1.0	0.9	0.9	1.1	1.2	1.3
Water Year Types[b]												
Wet (31%)	1.2	1.3	1.6	1.6	2.2	2.2	1.5	1.2	1.2	1.3	1.3	1.6
Above Normal (25%)	1.0	0.8	1.0	1.8	2.1	1.7	1.2	1.0	0.9	1.1	1.2	1.2
Below Normal (6%)	1.1	0.9	0.7	1.2	1.2	1.2	0.9	0.8	0.9	0.9	1.1	1.1
Dry (13%)	1.0	0.8	0.9	0.8	0.9	1.0	0.8	0.8	0.9	1.0	1.1	1.1
Critical (25%)	1.0	0.9	0.8	0.8	0.9	0.8	0.7	0.7	0.8	1.1	1.1	1.2

Alternative 4 H4 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.5	0.5	0.5	0.5	0.4	0.5	0.4	0.4	0.5	0.5	0.4	0.5
20%	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.4
30%	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5
40%	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.4
50%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4
60%	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70%	0.4	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80%	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
90%	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4
Long Term												
Full Simulation Period[a]	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Water Year Types[b]												
Wet (31%)	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5
Above Normal (25%)	0.4	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Below Normal (6%)	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.5	0.4	0.4
Dry (13%)	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4
Critical (25%)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-28-2-21. Mokelumne River at Terminous, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.8	0.9	1.1	1.4	2.1	1.6	1.3	0.8	0.6	0.8	0.9	1.0
20%	0.6	0.5	0.6	1.1	1.4	1.4	0.6	0.5	0.5	0.7	0.8	0.9
30%	0.6	0.5	0.5	0.9	1.0	1.0	0.5	0.4	0.4	0.6	0.7	0.8
40%	0.6	0.5	0.4	0.6	0.7	0.7	0.5	0.4	0.4	0.6	0.7	0.8
50%	0.6	0.4	0.4	0.5	0.5	0.7	0.4	0.4	0.4	0.6	0.7	0.7
60%	0.5	0.3	0.4	0.4	0.5	0.6	0.4	0.3	0.4	0.5	0.6	0.7
70%	0.5	0.3	0.3	0.4	0.5	0.4	0.3	0.3	0.4	0.5	0.6	0.7
80%	0.5	0.3	0.2	0.2	0.3	0.3	0.3	0.2	0.4	0.5	0.6	0.7
90%	0.5	0.2	0.1	0.2	0.3	0.2	0.1	0.2	0.3	0.5	0.5	0.6
Long Term												
Full Simulation Period[a]	0.6	0.5	0.5	0.7	0.9	0.9	0.5	0.4	0.4	0.6	0.7	0.8
Water Year Types[b]												
Wet (31%)	0.7	0.8	1.1	1.1	1.7	1.8	1.0	0.7	0.7	0.8	0.8	1.0
Above Normal (25%)	0.6	0.3	0.5	1.4	1.7	1.3	0.7	0.6	0.4	0.6	0.7	0.7
Below Normal (6%)	0.6	0.5	0.2	0.7	0.8	0.8	0.5	0.4	0.4	0.4	0.6	0.6
Dry (13%)	0.5	0.3	0.3	0.3	0.4	0.5	0.3	0.3	0.4	0.5	0.6	0.7
Critical (25%)	0.5	0.4	0.3	0.3	0.4	0.3	0.3	0.2	0.3	0.6	0.7	0.7

Alternative 5 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.2	1.4	1.6	1.8	2.5	2.0	1.7	1.2	1.1	1.3	1.3	1.5
20%	1.1	1.0	1.0	1.6	1.9	1.8	1.1	1.0	0.9	1.1	1.3	1.3
30%	1.1	1.0	1.0	1.3	1.4	1.4	0.9	0.9	0.9	1.1	1.2	1.3
40%	1.0	0.9	0.9	1.1	1.2	1.2	0.9	0.9	0.9	1.1	1.2	1.2
50%	1.0	0.9	0.9	1.0	1.0	1.1	0.9	0.8	0.9	1.1	1.1	1.2
60%	1.0	0.9	0.9	0.9	1.0	1.0	0.8	0.8	0.9	1.0	1.1	1.2
70%	1.0	0.8	0.8	0.9	0.9	0.9	0.8	0.8	0.8	1.0	1.1	1.2
80%	0.9	0.8	0.7	0.8	0.8	0.7	0.8	0.7	0.8	1.0	1.1	1.1
90%	0.9	0.8	0.6	0.7	0.8	0.7	0.6	0.6	0.8	0.9	1.0	1.1
Long Term												
Full Simulation Period[a]	1.0	1.0	1.0	1.2	1.4	1.3	1.0	0.9	0.9	1.1	1.2	1.3
Water Year Types[b]												
Wet (31%)	1.1	1.3	1.6	1.6	2.2	2.2	1.5	1.2	1.2	1.2	1.3	1.5
Above Normal (25%)	1.0	0.8	1.0	1.8	2.1	1.7	1.1	1.0	0.8	1.0	1.2	1.2
Below Normal (6%)	1.1	0.9	0.7	1.2	1.2	1.2	0.9	0.8	0.9	0.9	1.1	1.1
Dry (13%)	1.0	0.8	0.8	0.8	0.8	1.0	0.8	0.8	0.9	1.0	1.1	1.1
Critical (25%)	1.0	0.9	0.8	0.9	0.9	0.8	0.7	0.7	0.8	1.0	1.1	1.2

Alternative 5 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.5
20%	0.4	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.5	0.4	0.5	0.4
30%	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.5	0.5	0.4	0.5	0.4
40%	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.5	0.4	0.4
50%	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5
60%	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70%	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4
90%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Long Term												
Full Simulation Period[a]	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.5
Water Year Types[b]												
Wet (31%)	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.4	0.5	0.5
Above Normal (25%)	0.4	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.5	0.5
Below Normal (6%)	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.5
Dry (13%)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Critical (25%)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-28-2-22. Mokelumne River at Terminous, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.8	0.9	1.1	1.4	2.1	1.6	1.3	0.8	0.6	0.8	0.9	1.0
20%	0.6	0.5	0.6	1.1	1.4	1.4	0.6	0.5	0.5	0.7	0.8	0.9
30%	0.6	0.5	0.5	0.9	1.0	1.0	0.5	0.4	0.4	0.6	0.7	0.8
40%	0.6	0.5	0.4	0.6	0.7	0.7	0.5	0.4	0.4	0.6	0.7	0.8
50%	0.6	0.4	0.4	0.5	0.5	0.7	0.4	0.4	0.4	0.6	0.7	0.7
60%	0.5	0.3	0.4	0.4	0.5	0.6	0.4	0.3	0.4	0.5	0.6	0.7
70%	0.5	0.3	0.3	0.4	0.5	0.4	0.3	0.3	0.4	0.5	0.6	0.7
80%	0.5	0.3	0.2	0.2	0.3	0.3	0.3	0.2	0.4	0.5	0.6	0.7
90%	0.5	0.2	0.1	0.2	0.3	0.2	0.1	0.2	0.3	0.5	0.5	0.6
Long Term												
Full Simulation Period[a]	0.6	0.5	0.5	0.7	0.9	0.9	0.5	0.4	0.4	0.6	0.7	0.8
Water Year Types[b]												
Wet (31%)	0.7	0.8	1.1	1.1	1.7	1.8	1.0	0.7	0.7	0.8	0.8	1.0
Above Normal (25%)	0.6	0.3	0.5	1.4	1.7	1.3	0.7	0.6	0.4	0.6	0.7	0.7
Below Normal (6%)	0.6	0.5	0.2	0.7	0.8	0.8	0.5	0.4	0.4	0.4	0.6	0.6
Dry (13%)	0.5	0.3	0.3	0.3	0.4	0.5	0.3	0.3	0.4	0.5	0.6	0.7
Critical (25%)	0.5	0.4	0.3	0.3	0.4	0.3	0.3	0.2	0.3	0.6	0.7	0.7

Alternative 6A,6B,6C (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.3	1.4	1.7	1.9	2.6	2.1	1.7	1.2	1.1	1.3	1.4	1.5
20%	1.1	1.1	1.1	1.6	1.9	1.8	1.1	1.0	1.0	1.1	1.3	1.3
30%	1.1	1.0	1.1	1.4	1.5	1.4	0.9	0.9	0.9	1.1	1.2	1.3
40%	1.1	1.0	1.0	1.2	1.2	1.2	0.9	0.9	0.9	1.1	1.2	1.2
50%	1.0	0.9	1.0	1.0	1.1	1.2	0.9	0.9	0.9	1.1	1.2	1.2
60%	1.0	0.9	1.0	1.0	1.0	1.0	0.8	0.8	0.9	1.1	1.1	1.2
70%	1.0	0.8	0.9	0.9	1.0	0.9	0.8	0.8	0.9	1.0	1.1	1.2
80%	1.0	0.8	0.8	0.8	0.9	0.8	0.8	0.7	0.8	1.0	1.1	1.2
90%	1.0	0.8	0.7	0.8	0.8	0.8	0.6	0.7	0.8	0.9	1.0	1.1
Long Term												
Full Simulation Period[a]	1.1	1.0	1.1	1.2	1.4	1.3	1.0	0.9	0.9	1.1	1.2	1.3
Water Year Types[b]												
Wet (31%)	1.2	1.4	1.7	1.6	2.2	2.2	1.5	1.2	1.2	1.3	1.3	1.5
Above Normal (25%)	1.0	0.9	1.0	1.9	2.1	1.7	1.1	1.0	0.9	1.1	1.2	1.2
Below Normal (6%)	1.1	1.0	0.8	1.3	1.3	1.3	0.9	0.9	0.9	1.0	1.1	1.1
Dry (13%)	1.0	0.9	0.9	0.9	0.9	1.0	0.8	0.8	0.9	1.0	1.1	1.2
Critical (25%)	1.0	0.9	0.9	0.9	0.9	0.8	0.7	0.7	0.8	1.1	1.2	1.2

Alternative 6A,6B,6C (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.5	0.6	0.6	0.5	0.4	0.5	0.4	0.4	0.5	0.5	0.5	0.5
20%	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
30%	0.5	0.5	0.6	0.5	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.4
40%	0.5	0.5	0.6	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.4
50%	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
60%	0.5	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70%	0.5	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80%	0.5	0.6	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
90%	0.5	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Long Term												
Full Simulation Period[a]	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Water Year Types[b]												
Wet (31%)	0.5	0.6	0.6	0.5	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.5
Above Normal (25%)	0.4	0.5	0.6	0.5	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5
Below Normal (6%)	0.5	0.5	0.6	0.6	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5
Dry (13%)	0.5	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Critical (25%)	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-28-2-23. Mokelumne River at Terminous, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.8	0.9	1.1	1.4	2.1	1.6	1.3	0.8	0.6	0.8	0.9	1.0
20%	0.6	0.5	0.6	1.1	1.4	1.4	0.6	0.5	0.5	0.7	0.8	0.9
30%	0.6	0.5	0.5	0.9	1.0	1.0	0.5	0.4	0.4	0.6	0.7	0.8
40%	0.6	0.5	0.4	0.6	0.7	0.7	0.5	0.4	0.4	0.6	0.7	0.8
50%	0.6	0.4	0.4	0.5	0.5	0.7	0.4	0.4	0.4	0.6	0.7	0.7
60%	0.5	0.3	0.4	0.4	0.5	0.6	0.4	0.3	0.4	0.5	0.6	0.7
70%	0.5	0.3	0.3	0.4	0.5	0.4	0.3	0.3	0.4	0.5	0.6	0.7
80%	0.5	0.3	0.2	0.2	0.3	0.3	0.3	0.2	0.4	0.5	0.6	0.7
90%	0.5	0.2	0.1	0.2	0.3	0.2	0.1	0.2	0.3	0.5	0.5	0.6
Long Term												
Full Simulation Period[a]	0.6	0.5	0.5	0.7	0.9	0.9	0.5	0.4	0.4	0.6	0.7	0.8
Water Year Types[b]												
Wet (31%)	0.7	0.8	1.1	1.1	1.7	1.8	1.0	0.7	0.7	0.8	0.8	1.0
Above Normal (25%)	0.6	0.3	0.5	1.4	1.7	1.3	0.7	0.6	0.4	0.6	0.7	0.7
Below Normal (6%)	0.6	0.5	0.2	0.7	0.8	0.8	0.5	0.4	0.4	0.4	0.6	0.6
Dry (13%)	0.5	0.3	0.3	0.3	0.4	0.5	0.3	0.3	0.4	0.5	0.6	0.7
Critical (25%)	0.5	0.4	0.3	0.3	0.4	0.3	0.3	0.2	0.3	0.6	0.7	0.7

Alternative 7 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.3	1.4	1.7	1.9	2.5	2.0	1.7	1.2	1.1	1.3	1.3	1.6
20%	1.1	1.1	1.1	1.6	1.9	1.8	1.1	1.0	1.0	1.1	1.3	1.3
30%	1.1	1.0	1.1	1.4	1.5	1.4	0.9	0.9	0.9	1.1	1.2	1.3
40%	1.1	1.0	1.0	1.2	1.2	1.2	0.9	0.9	0.9	1.1	1.2	1.2
50%	1.0	1.0	1.0	1.0	1.1	1.2	0.9	0.9	0.9	1.1	1.2	1.2
60%	1.0	0.9	1.0	1.0	1.0	1.0	0.8	0.8	0.9	1.0	1.1	1.2
70%	1.0	0.9	0.9	0.9	1.0	0.9	0.8	0.8	0.9	1.0	1.1	1.2
80%	1.0	0.8	0.8	0.8	0.9	0.8	0.8	0.7	0.9	0.9	1.1	1.1
90%	1.0	0.8	0.7	0.8	0.8	0.8	0.6	0.7	0.8	0.9	1.0	1.1
Long Term												
Full Simulation Period[a]	1.1	1.0	1.1	1.2	1.4	1.3	1.0	0.9	1.0	1.1	1.2	1.3
Water Year Types[b]												
Wet (31%)	1.2	1.4	1.6	1.6	2.2	2.2	1.5	1.2	1.2	1.3	1.3	1.6
Above Normal (25%)	1.0	0.9	1.0	1.9	2.1	1.7	1.2	1.0	0.9	1.0	1.2	1.2
Below Normal (6%)	1.1	1.0	0.8	1.2	1.3	1.3	0.9	0.9	0.9	0.9	1.1	1.1
Dry (13%)	1.0	0.9	0.9	0.9	0.9	1.0	0.8	0.8	0.9	1.0	1.1	1.1
Critical (25%)	1.0	0.9	0.9	0.9	0.9	0.8	0.7	0.7	0.8	1.0	1.2	1.2

Alternative 7 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.5	0.6	0.6	0.5	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5
20%	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.4
30%	0.5	0.5	0.6	0.5	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.5
40%	0.5	0.5	0.6	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.4
50%	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
60%	0.5	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70%	0.5	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80%	0.5	0.6	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
90%	0.5	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Long Term												
Full Simulation Period[a]	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Water Year Types[b]												
Wet (31%)	0.5	0.6	0.6	0.5	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.5
Above Normal (25%)	0.5	0.6	0.6	0.5	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5
Below Normal (6%)	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5
Dry (13%)	0.5	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Critical (25%)	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-28-2-24. Mokelumne River at Terminous, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.8	0.9	1.1	1.4	2.1	1.6	1.3	0.8	0.6	0.8	0.9	1.0
20%	0.6	0.5	0.6	1.1	1.4	1.4	0.6	0.5	0.5	0.7	0.8	0.9
30%	0.6	0.5	0.5	0.9	1.0	1.0	0.5	0.4	0.4	0.6	0.7	0.8
40%	0.6	0.5	0.4	0.6	0.7	0.7	0.5	0.4	0.4	0.6	0.7	0.8
50%	0.6	0.4	0.4	0.5	0.5	0.7	0.4	0.4	0.4	0.6	0.7	0.7
60%	0.5	0.3	0.4	0.4	0.5	0.6	0.4	0.3	0.4	0.5	0.6	0.7
70%	0.5	0.3	0.3	0.4	0.5	0.4	0.3	0.3	0.4	0.5	0.6	0.7
80%	0.5	0.3	0.2	0.2	0.3	0.3	0.3	0.2	0.4	0.5	0.6	0.7
90%	0.5	0.2	0.1	0.2	0.3	0.2	0.1	0.2	0.3	0.5	0.5	0.6
Long Term												
Full Simulation Period[a]	0.6	0.5	0.5	0.7	0.9	0.9	0.5	0.4	0.4	0.6	0.7	0.8
Water Year Types[b]												
Wet (31%)	0.7	0.8	1.1	1.1	1.7	1.8	1.0	0.7	0.7	0.8	0.8	1.0
Above Normal (25%)	0.6	0.3	0.5	1.4	1.7	1.3	0.7	0.6	0.4	0.6	0.7	0.7
Below Normal (6%)	0.6	0.5	0.2	0.7	0.8	0.8	0.5	0.4	0.4	0.4	0.6	0.6
Dry (13%)	0.5	0.3	0.3	0.3	0.4	0.5	0.3	0.3	0.4	0.5	0.6	0.7
Critical (25%)	0.5	0.4	0.3	0.3	0.4	0.3	0.3	0.2	0.3	0.6	0.7	0.7

Alternative 8 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.3	1.5	1.7	1.9	2.5	2.0	1.7	1.2	1.1	1.3	1.3	1.6
20%	1.1	1.1	1.1	1.6	1.9	1.8	1.1	1.0	1.0	1.1	1.3	1.3
30%	1.1	1.0	1.1	1.4	1.5	1.4	1.0	0.9	0.9	1.1	1.2	1.3
40%	1.1	1.0	1.0	1.2	1.2	1.2	0.9	0.9	0.9	1.1	1.2	1.2
50%	1.0	1.0	1.0	1.0	1.1	1.2	0.9	0.9	0.9	1.1	1.2	1.2
60%	1.0	0.9	1.0	1.0	1.0	1.1	0.8	0.8	0.9	1.1	1.1	1.2
70%	1.0	0.8	0.9	0.9	1.0	0.9	0.8	0.8	0.9	1.0	1.1	1.2
80%	1.0	0.8	0.8	0.8	0.9	0.8	0.8	0.7	0.9	1.0	1.1	1.1
90%	1.0	0.8	0.7	0.8	0.8	0.8	0.6	0.7	0.8	0.9	1.0	1.1
Long Term												
Full Simulation Period[a]	1.1	1.0	1.1	1.2	1.4	1.4	1.0	0.9	1.0	1.1	1.2	1.3
Water Year Types[b]												
Wet (31%)	1.2	1.4	1.6	1.6	2.2	2.2	1.5	1.2	1.2	1.3	1.3	1.6
Above Normal (25%)	1.0	0.9	1.0	1.9	2.1	1.7	1.2	1.0	0.9	1.1	1.2	1.2
Below Normal (6%)	1.1	1.0	0.8	1.3	1.3	1.3	0.9	0.9	0.9	1.0	1.1	1.1
Dry (13%)	1.0	0.9	0.9	0.9	0.9	1.0	0.8	0.8	0.9	1.0	1.1	1.1
Critical (25%)	1.0	0.9	0.9	0.9	0.9	0.8	0.7	0.7	0.8	1.1	1.2	1.2

Alternative 8 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.5	0.6	0.6	0.5	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5
20%	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4
30%	0.5	0.6	0.6	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5
40%	0.5	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4
50%	0.5	0.5	0.6	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5
60%	0.5	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70%	0.5	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80%	0.5	0.6	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
90%	0.5	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Long Term												
Full Simulation Period[a]	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Water Year Types[b]												
Wet (31%)	0.5	0.6	0.6	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5
Above Normal (25%)	0.5	0.6	0.6	0.5	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5
Below Normal (6%)	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Dry (13%)	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Critical (25%)	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-28-2-25. Mokelumne River at Terminous, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.8	0.9	1.1	1.4	2.1	1.6	1.3	0.8	0.6	0.8	0.9	1.0
20%	0.6	0.5	0.6	1.1	1.4	1.4	0.6	0.5	0.5	0.7	0.8	0.9
30%	0.6	0.5	0.5	0.9	1.0	1.0	0.5	0.4	0.4	0.6	0.7	0.8
40%	0.6	0.5	0.4	0.6	0.7	0.7	0.5	0.4	0.4	0.6	0.7	0.8
50%	0.6	0.4	0.4	0.5	0.5	0.7	0.4	0.4	0.4	0.6	0.7	0.7
60%	0.5	0.3	0.4	0.4	0.5	0.6	0.4	0.3	0.4	0.5	0.6	0.7
70%	0.5	0.3	0.3	0.4	0.5	0.4	0.3	0.3	0.4	0.5	0.6	0.7
80%	0.5	0.3	0.2	0.2	0.3	0.3	0.3	0.2	0.4	0.5	0.6	0.7
90%	0.5	0.2	0.1	0.2	0.3	0.2	0.1	0.2	0.3	0.5	0.5	0.6
Long Term												
Full Simulation Period[a]	0.6	0.5	0.5	0.7	0.9	0.9	0.5	0.4	0.4	0.6	0.7	0.8
Water Year Types[b]												
Wet (31%)	0.7	0.8	1.1	1.1	1.7	1.8	1.0	0.7	0.7	0.8	0.8	1.0
Above Normal (25%)	0.6	0.3	0.5	1.4	1.7	1.3	0.7	0.6	0.4	0.6	0.7	0.7
Below Normal (6%)	0.6	0.5	0.2	0.7	0.8	0.8	0.5	0.4	0.4	0.4	0.6	0.6
Dry (13%)	0.5	0.3	0.3	0.3	0.4	0.5	0.3	0.3	0.4	0.5	0.6	0.7
Critical (25%)	0.5	0.4	0.3	0.3	0.4	0.3	0.3	0.2	0.3	0.6	0.7	0.7

Alternative 9 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.2	1.4	1.6	1.9	2.5	2.0	1.7	1.2	1.1	1.4	1.3	1.6
20%	1.2	1.1	1.1	1.6	1.9	1.8	1.1	1.0	0.9	1.2	1.3	1.3
30%	1.1	1.0	1.0	1.4	1.5	1.5	1.0	0.9	0.9	1.1	1.3	1.3
40%	1.0	1.0	1.0	1.2	1.2	1.2	0.9	0.9	0.9	1.1	1.3	1.2
50%	1.0	0.9	1.0	1.0	1.1	1.2	0.9	0.8	0.9	1.1	1.2	1.2
60%	1.0	0.8	0.9	1.0	1.0	1.0	0.9	0.8	0.9	1.1	1.2	1.2
70%	1.0	0.8	0.8	0.9	1.0	0.9	0.8	0.8	0.9	1.1	1.1	1.2
80%	1.0	0.8	0.7	0.8	0.9	0.8	0.8	0.7	0.8	1.0	1.1	1.1
90%	0.9	0.7	0.6	0.7	0.8	0.8	0.6	0.6	0.8	1.0	1.1	1.1
Long Term												
Full Simulation Period[a]	1.1	1.0	1.0	1.2	1.4	1.4	1.0	0.9	0.9	1.1	1.2	1.3
Water Year Types[b]												
Wet (31%)	1.2	1.3	1.6	1.6	2.1	2.2	1.5	1.2	1.2	1.3	1.3	1.5
Above Normal (25%)	1.0	0.8	1.0	1.9	2.2	1.7	1.2	1.0	0.8	1.1	1.2	1.3
Below Normal (6%)	1.2	1.0	0.7	1.3	1.3	1.3	1.0	0.8	0.9	1.0	1.1	1.1
Dry (13%)	1.0	0.8	0.8	0.9	0.9	1.0	0.8	0.9	0.9	1.1	1.2	1.2
Critical (25%)	1.0	0.9	0.9	0.9	0.9	0.8	0.7	0.7	0.8	1.1	1.2	1.2

Alternative 9 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5
20%	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
30%	0.4	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
40%	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4
50%	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5
60%	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5
70%	0.4	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5
80%	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5
90%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Long Term												
Full Simulation Period[a]	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Water Year Types[b]												
Wet (31%)	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5
Above Normal (25%)	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Below Normal (6%)	0.5	0.6	0.5	0.6	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5
Dry (13%)	0.5	0.5	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.6	0.6	0.5
Critical (25%)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

C.29. Sacramento River at Freeport Water Surface Elevation

Table C-29-1-1. Sacramento River at Freeport, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	7.7	12.5	11.7	13.9	13.1	9.2	5.7	4.5	5.1	4.5	4.5
20%	3.6	6.4	5.2	10.0	13.0	10.8	4.9	3.9	3.9	4.8	4.3	3.9
30%	3.6	3.9	4.7	7.8	8.1	9.0	4.4	3.9	3.9	4.7	4.2	3.8
40%	3.5	3.8	4.4	5.5	6.9	6.9	3.8	3.8	3.9	4.7	4.1	3.8
50%	3.5	3.6	4.2	5.2	5.3	6.1	3.7	3.7	3.8	4.6	4.1	3.7
60%	3.4	3.5	4.0	4.6	3.9	5.7	3.6	3.5	3.8	4.6	4.0	3.7
70%	3.4	3.5	3.9	4.0	3.8	4.4	3.6	3.4	3.7	4.5	3.9	3.6
80%	3.3	3.3	3.8	3.7	3.7	3.6	3.4	3.4	3.6	4.4	3.9	3.6
90%	3.3	3.2	3.4	3.5	3.3	3.3	3.3	3.1	3.5	4.1	3.8	3.4
Long Term												
Full Simulation Period[a]	3.6	4.7	5.8	6.6	7.2	7.3	5.0	4.3	4.2	4.6	4.1	3.9
Water Year Types[b]												
Wet (31%)	4.1	7.4	11.1	9.6	12.4	12.2	8.4	6.3	5.8	5.1	4.4	4.7
Above Normal (25%)	3.2	3.5	4.5	11.8	11.2	9.9	5.5	4.2	3.8	4.4	4.0	3.7
Below Normal (6%)	3.6	3.5	3.4	5.3	7.0	6.0	3.7	3.8	3.7	4.5	4.0	3.6
Dry (13%)	3.5	4.1	4.2	4.2	4.4	5.9	3.9	3.6	3.9	4.7	4.3	3.7
Critical (25%)	3.5	3.6	3.9	4.2	3.6	3.8	3.3	3.2	3.6	4.4	3.8	3.5

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5.3	7.4	13.3	13.0	14.7	13.6	10.0	6.1	5.7	6.5	5.9	6.8
20%	5.1	6.3	6.1	11.9	13.9	12.1	6.2	5.4	5.5	6.4	5.7	6.3
30%	5.0	5.5	6.0	8.9	9.5	9.9	5.5	5.2	5.4	6.3	5.7	5.6
40%	5.0	5.2	5.7	6.6	7.4	7.5	5.1	5.1	5.3	6.3	5.6	5.2
50%	5.0	5.1	5.6	6.4	6.3	6.9	5.0	4.9	5.3	6.1	5.5	5.2
60%	5.0	5.0	5.4	5.9	5.4	6.2	5.0	4.9	5.2	6.0	5.5	5.1
70%	4.9	5.0	5.2	5.5	5.1	5.4	4.9	4.9	5.2	5.9	5.4	5.1
80%	4.8	4.9	5.1	5.4	5.1	4.9	4.8	4.9	5.2	5.6	5.3	5.1
90%	4.8	4.8	5.0	5.0	4.8	4.8	4.7	4.7	5.1	5.5	5.2	4.9
Long Term												
Full Simulation Period[a]	5.0	5.8	7.1	7.9	8.3	8.2	6.3	5.4	5.4	6.1	5.5	5.6
Water Year Types[b]												
Wet (31%)	5.3	7.8	12.0	10.9	13.3	12.6	9.5	6.4	6.0	6.3	5.8	6.7
Above Normal (25%)	4.8	4.9	5.9	12.7	12.6	10.9	6.2	5.2	5.2	6.2	5.6	5.6
Below Normal (6%)	5.0	5.2	5.1	6.6	7.4	6.6	5.0	4.9	5.3	5.6	5.3	5.1
Dry (13%)	5.0	5.3	5.4	5.5	5.6	6.7	5.2	5.2	5.4	6.2	5.6	5.1
Critical (25%)	5.0	5.1	5.3	5.6	5.0	5.1	4.8	4.8	5.1	5.7	5.2	5.1

No Action Alternative (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.9	-0.3	0.8	1.3	0.8	0.5	0.8	0.4	1.2	1.4	1.3	2.3
20%	1.5	-0.1	0.9	1.8	0.9	1.3	1.3	1.5	1.5	1.7	1.4	2.3
30%	1.4	1.6	1.2	1.2	1.4	0.9	1.1	1.4	1.5	1.6	1.4	1.8
40%	1.5	1.5	1.2	1.2	0.4	0.6	1.3	1.3	1.4	1.6	1.5	1.5
50%	1.6	1.5	1.4	1.2	1.0	0.8	1.3	1.2	1.4	1.5	1.5	1.5
60%	1.6	1.5	1.4	1.3	1.5	0.5	1.4	1.5	1.4	1.4	1.4	1.5
70%	1.5	1.5	1.3	1.5	1.3	1.0	1.4	1.5	1.5	1.4	1.5	1.5
80%	1.5	1.6	1.3	1.7	1.3	1.2	1.5	1.5	1.5	1.2	1.4	1.5
90%	1.6	1.5	1.6	1.5	1.5	1.5	1.5	1.6	1.6	1.4	1.4	1.5
Long Term												
Full Simulation Period[a]	1.4	1.1	1.3	1.3	1.1	0.9	1.2	1.1	1.2	1.4	1.4	1.6
Water Year Types[b]												
Wet (31%)	1.2	0.3	1.0	1.3	0.9	0.4	1.1	0.1	0.2	1.2	1.4	2.0
Above Normal (25%)	1.5	1.4	1.4	0.9	1.4	1.1	0.8	1.0	1.4	1.9	1.6	1.9
Below Normal (6%)	1.4	1.7	1.7	1.3	0.3	0.6	1.3	1.1	1.5	1.1	1.3	1.5
Dry (13%)	1.5	1.2	1.2	1.3	1.2	0.9	1.3	1.5	1.4	1.5	1.3	1.4
Critical (25%)	1.5	1.5	1.4	1.5	1.4	1.3	1.5	1.6	1.6	1.3	1.4	1.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

Table C-29-1-2. Sacramento River at Freeport, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	4.3	7.7	12.5	11.7	13.9	13.1	9.2	5.7	4.5	5.1	4.5	4.5
20%	3.6	6.4	5.2	10.0	13.0	10.8	4.9	3.9	3.9	4.8	4.3	3.9
30%	3.6	3.9	4.7	7.8	8.1	9.0	4.4	3.9	3.9	4.7	4.2	3.8
40%	3.5	3.8	4.4	5.5	6.9	6.9	3.8	3.8	3.9	4.7	4.1	3.8
50%	3.5	3.6	4.2	5.2	5.3	6.1	3.7	3.7	3.8	4.6	4.1	3.7
60%	3.4	3.5	4.0	4.6	3.9	5.7	3.6	3.5	3.8	4.6	4.0	3.7
70%	3.4	3.5	3.9	4.0	3.8	4.4	3.6	3.4	3.7	4.5	3.9	3.6
80%	3.3	3.3	3.8	3.7	3.7	3.6	3.4	3.4	3.6	4.4	3.9	3.6
90%	3.3	3.2	3.4	3.5	3.3	3.3	3.3	3.1	3.5	4.1	3.8	3.4
Long Term												
Full Simulation Period[a]	3.6	4.7	5.8	6.6	7.2	7.3	5.0	4.3	4.2	4.6	4.1	3.9
Water Year Types[b]												
Wet (31%)	4.1	7.4	11.1	9.6	12.4	12.2	8.4	6.3	5.8	5.1	4.4	4.7
Above Normal (25%)	3.2	3.5	4.5	11.8	11.2	9.9	5.5	4.2	3.8	4.4	4.0	3.7
Below Normal (6%)	3.6	3.5	3.4	5.3	7.0	6.0	3.7	3.8	3.7	4.5	4.0	3.6
Dry (13%)	3.5	4.1	4.2	4.2	4.4	5.9	3.9	3.6	3.9	4.7	4.3	3.7
Critical (25%)	3.5	3.6	3.9	4.2	3.6	3.8	3.3	3.2	3.6	4.4	3.8	3.5

Alternative 1A,1B,1C (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	5.3	6.7	12.1	11.6	13.5	12.8	8.8	5.4	5.3	5.6	5.1	4.9
20%	5.1	5.8	5.6	10.2	12.8	10.9	5.4	4.9	5.0	5.5	4.9	4.8
30%	4.9	4.9	5.4	7.9	7.8	8.6	4.9	4.6	4.9	5.4	4.9	4.7
40%	4.7	4.5	5.2	5.8	6.2	5.9	4.6	4.5	4.7	5.2	4.8	4.6
50%	4.6	4.5	5.1	5.7	5.5	5.6	4.5	4.5	4.7	5.0	4.8	4.6
60%	4.4	4.5	4.9	5.2	4.8	5.3	4.5	4.5	4.6	5.0	4.7	4.6
70%	4.4	4.4	4.7	4.8	4.7	4.8	4.5	4.4	4.6	4.8	4.7	4.6
80%	4.3	4.3	4.6	4.6	4.6	4.3	4.4	4.4	4.5	4.7	4.6	4.5
90%	4.3	4.2	4.5	4.5	4.4	4.3	4.3	4.2	4.5	4.6	4.5	4.4
Long Term												
Full Simulation Period[a]	4.7	5.2	6.5	7.0	7.5	7.4	5.7	4.8	4.8	5.1	4.8	4.7
Water Year Types[b]												
Wet (31%)	4.7	7.4	11.1	9.7	12.1	11.7	8.8	5.7	5.4	5.4	5.0	5.1
Above Normal (25%)	4.6	4.3	5.3	11.3	11.3	9.8	5.2	4.6	4.8	5.1	4.7	4.5
Below Normal (6%)	5.4	4.5	4.6	5.8	6.2	5.4	4.5	4.4	4.6	4.4	4.5	4.4
Dry (13%)	4.4	4.7	5.0	5.1	5.0	5.9	4.7	4.7	4.8	5.4	5.0	4.6
Critical (25%)	4.9	4.4	4.8	4.9	4.5	4.5	4.3	4.3	4.5	4.8	4.6	4.5

Alternative 1A,1B,1C (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.9	**-1.0**	**-0.4**	**-0.1**	**-0.4**	**-0.3**	**-0.4**	**-0.3**	0.8	0.5	0.6	0.4
20%	1.5	**-0.6**	0.3	0.2	**-0.2**	0.1	0.4	1.1	1.1	0.7	0.6	0.8
30%	1.3	1.0	0.7	0.2	**-0.4**	**-0.3**	0.6	0.8	1.0	0.7	0.6	0.8
40%	1.2	0.8	0.8	0.4	**-0.7**	**-1.0**	0.9	0.7	0.9	0.5	0.7	0.9
50%	1.1	0.9	0.9	0.5	0.3	**-0.5**	0.8	0.8	0.9	0.4	0.7	0.9
60%	1.0	0.9	0.9	0.6	0.9	**-0.4**	0.8	1.0	0.8	0.4	0.7	0.9
70%	1.0	0.9	0.8	0.8	0.8	0.4	0.9	1.0	0.9	0.3	0.8	1.0
80%	1.1	1.0	0.8	0.9	0.8	0.7	1.0	1.0	0.9	0.3	0.7	0.9
90%	1.0	1.0	1.1	1.0	1.0	1.0	1.0	1.1	0.9	0.4	0.7	0.9
Long Term												
Full Simulation Period[a]	1.1	0.5	0.7	0.4	0.3	0.0	0.6	0.6	0.6	0.5	0.7	0.8
Water Year Types[b]												
Wet (31%)	0.6	**0.0**	0.1	0.1	**-0.3**	**-0.5**	0.3	**-0.6**	**-0.4**	0.3	0.6	0.3
Above Normal (25%)	1.3	0.8	0.8	**-0.5**	0.1	**-0.1**	**-0.2**	0.4	1.0	0.8	0.7	0.8
Below Normal (6%)	1.7	1.0	1.2	0.5	**-0.9**	**-0.6**	0.7	0.5	0.8	**-0.1**	0.5	0.9
Dry (13%)	0.9	0.6	0.8	0.8	0.6	0.1	0.9	1.1	0.9	0.7	0.6	0.8
Critical (25%)	1.4	0.8	0.8	0.7	0.9	0.7	1.0	1.1	0.9	0.4	0.8	1.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-29-1-3. Sacramento River at Freeport, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	4.3	7.7	12.5	11.7	13.9	13.1	9.2	5.7	4.5	5.1	4.5	4.5
20%	3.6	6.4	5.2	10.0	13.0	10.8	4.9	3.9	3.9	4.8	4.3	3.9
30%	3.6	3.9	4.7	7.8	8.1	9.0	4.4	3.9	3.9	4.7	4.2	3.8
40%	3.5	3.8	4.4	5.5	6.9	6.9	3.8	3.8	3.9	4.7	4.1	3.8
50%	3.5	3.6	4.2	5.2	5.3	6.1	3.7	3.7	3.8	4.6	4.1	3.7
60%	3.4	3.5	4.0	4.6	3.9	5.7	3.6	3.5	3.8	4.6	4.0	3.7
70%	3.4	3.5	3.9	4.0	3.8	4.4	3.6	3.4	3.7	4.5	3.9	3.6
80%	3.3	3.3	3.8	3.7	3.7	3.6	3.4	3.4	3.6	4.4	3.9	3.6
90%	3.3	3.2	3.4	3.5	3.3	3.3	3.3	3.1	3.5	4.1	3.8	3.4
Long Term												
Full Simulation Period[a]	3.6	4.7	5.8	6.6	7.2	7.3	5.0	4.3	4.2	4.6	4.1	3.9
Water Year Types[b]												
Wet (31%)	4.1	7.4	11.1	9.6	12.4	12.2	8.4	6.3	5.8	5.1	4.4	4.7
Above Normal (25%)	3.2	3.5	4.5	11.8	11.2	9.9	5.5	4.2	3.8	4.4	4.0	3.7
Below Normal (6%)	3.6	3.5	3.4	5.3	7.0	6.0	3.7	3.8	3.7	4.5	4.0	3.6
Dry (13%)	3.5	4.1	4.2	4.2	4.4	5.9	3.9	3.6	3.9	4.7	4.3	3.7
Critical (25%)	3.5	3.6	3.9	4.2	3.6	3.8	3.3	3.2	3.6	4.4	3.8	3.5

Alternative 2A,2B,2C (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	4.8	6.6	11.8	11.6	13.4	12.7	8.7	5.5	5.4	5.7	5.0	6.1
20%	4.7	5.9	5.4	10.3	12.8	10.9	5.5	4.9	5.0	5.4	4.9	5.5
30%	4.6	4.7	5.4	7.8	7.7	8.2	4.8	4.6	4.9	5.4	4.9	4.8
40%	4.5	4.5	5.1	5.8	6.1	5.9	4.5	4.5	4.8	5.3	4.8	4.8
50%	4.5	4.5	5.1	5.5	5.5	5.6	4.5	4.5	4.7	5.2	4.8	4.6
60%	4.4	4.4	5.0	5.2	4.8	5.3	4.4	4.4	4.7	5.1	4.7	4.6
70%	4.4	4.4	4.7	4.9	4.6	4.7	4.3	4.4	4.6	4.9	4.7	4.6
80%	4.3	4.3	4.5	4.8	4.5	4.3	4.3	4.4	4.6	4.8	4.6	4.5
90%	4.2	4.2	4.5	4.5	4.3	4.3	4.2	4.2	4.4	4.6	4.5	4.3
Long Term												
Full Simulation Period[a]	4.5	5.1	6.4	6.9	7.4	7.3	5.6	4.8	4.9	5.2	4.8	4.9
Water Year Types[b]												
Wet (31%)	4.7	7.0	11.0	9.7	12.0	11.6	8.7	5.7	5.5	5.4	5.0	6.0
Above Normal (25%)	4.4	4.3	5.3	11.0	11.1	9.7	5.1	4.6	4.7	5.5	4.8	4.8
Below Normal (6%)	4.4	4.4	4.5	5.8	6.1	5.5	4.5	4.3	4.7	4.5	4.5	4.3
Dry (13%)	4.4	4.7	4.9	4.9	5.0	5.6	4.7	4.8	4.9	5.3	4.8	4.5
Critical (25%)	4.5	4.5	4.8	5.0	4.4	4.5	4.3	4.3	4.5	4.9	4.6	4.5

Alternative 2A,2B,2C (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.5	**-1.1**	**-0.7**	**-0.2**	**-0.5**	**-0.4**	**-0.5**	**-0.2**	1.0	0.6	0.5	1.6
20%	1.1	**-0.5**	0.2	0.2	**-0.2**	0.1	0.6	1.1	1.1	0.7	0.6	1.6
30%	1.0	0.8	0.6	0.1	**-0.5**	**-0.8**	0.5	0.8	1.0	0.7	0.6	1.0
40%	1.0	0.8	0.7	0.3	**-0.8**	**-1.0**	0.7	0.7	0.9	0.6	0.7	1.0
50%	1.0	0.9	0.9	0.3	0.2	**-0.5**	0.8	0.8	0.9	0.6	0.7	0.9
60%	1.0	0.9	0.9	0.6	0.9	**-0.4**	0.8	1.0	0.9	0.5	0.7	0.9
70%	1.0	1.0	0.8	0.9	0.8	0.3	0.8	1.0	0.9	0.4	0.7	1.0
80%	1.0	1.0	0.7	1.1	0.8	0.7	0.9	1.0	0.9	0.3	0.7	1.0
90%	1.0	1.0	1.1	1.0	1.0	1.0	1.0	1.1	0.9	0.4	0.8	0.9
Long Term												
Full Simulation Period[a]	0.9	0.5	0.6	0.4	0.3	**-0.1**	0.6	0.6	0.6	0.5	0.7	1.0
Water Year Types[b]												
Wet (31%)	0.6	**-0.4**	**-0.1**	0.1	**-0.3**	**-0.6**	0.3	**-0.7**	**-0.3**	0.3	0.6	1.2
Above Normal (25%)	1.2	0.8	0.8	**-0.8**	**-0.1**	**-0.1**	**-0.3**	0.4	0.8	1.1	0.8	1.1
Below Normal (6%)	0.8	0.9	1.1	0.5	**-0.9**	**-0.5**	0.7	0.5	1.0	0.0	0.5	0.8
Dry (13%)	1.0	0.6	0.7	0.7	0.6	**-0.3**	0.8	1.1	0.9	0.6	0.5	0.8
Critical (25%)	1.0	0.9	0.9	0.8	0.9	0.7	0.9	1.1	0.9	0.5	0.8	1.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-29-1-4. Sacramento River at Freeport, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	7.7	12.5	11.7	13.9	13.1	9.2	5.7	4.5	5.1	4.5	4.5
20%	3.6	6.4	5.2	10.0	13.0	10.8	4.9	3.9	3.9	4.8	4.3	3.9
30%	3.6	3.9	4.7	7.8	8.1	9.0	4.4	3.9	3.9	4.7	4.2	3.8
40%	3.5	3.8	4.4	5.5	6.9	6.9	3.8	3.8	3.9	4.7	4.1	3.8
50%	3.5	3.6	4.2	5.2	5.3	6.1	3.7	3.7	3.8	4.6	4.1	3.7
60%	3.4	3.5	4.0	4.6	3.9	5.7	3.6	3.5	3.8	4.6	4.0	3.7
70%	3.4	3.5	3.9	4.0	3.8	4.4	3.6	3.4	3.7	4.5	3.9	3.6
80%	3.3	3.3	3.8	3.7	3.7	3.6	3.4	3.4	3.6	4.4	3.9	3.6
90%	3.3	3.2	3.4	3.5	3.3	3.3	3.3	3.1	3.5	4.1	3.8	3.4
Long Term												
Full Simulation Period[a]	3.6	4.7	5.8	6.6	7.2	7.3	5.0	4.3	4.2	4.6	4.1	3.9
Water Year Types[b]												
Wet (31%)	4.1	7.4	11.1	9.6	12.4	12.2	8.4	6.3	5.8	5.1	4.4	4.7
Above Normal (25%)	3.2	3.5	4.5	11.8	11.2	9.9	5.5	4.2	3.8	4.4	4.0	3.7
Below Normal (6%)	3.6	3.5	3.4	5.3	7.0	6.0	3.7	3.8	3.7	4.5	4.0	3.6
Dry (13%)	3.5	4.1	4.2	4.2	4.4	5.9	3.9	3.6	3.9	4.7	4.3	3.7
Critical (25%)	3.5	3.6	3.9	4.2	3.6	3.8	3.3	3.2	3.6	4.4	3.8	3.5

Alternative 3 (LLT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5.4	6.8	12.5	11.5	13.7	12.5	8.7	5.5	5.3	5.6	5.0	4.9
20%	5.1	5.8	5.5	10.5	12.6	10.6	5.4	4.9	4.9	5.4	4.9	4.7
30%	4.9	4.5	5.4	7.7	8.0	8.4	4.8	4.6	4.8	5.3	4.9	4.7
40%	4.7	4.5	5.1	5.8	6.1	5.9	4.6	4.5	4.7	5.2	4.8	4.6
50%	4.5	4.5	5.1	5.5	5.4	5.6	4.5	4.5	4.6	5.1	4.8	4.6
60%	4.4	4.4	4.9	5.1	4.7	5.2	4.4	4.5	4.6	5.0	4.7	4.5
70%	4.4	4.4	4.7	4.8	4.6	4.8	4.4	4.4	4.6	4.8	4.7	4.5
80%	4.4	4.3	4.6	4.7	4.6	4.3	4.4	4.4	4.5	4.7	4.6	4.4
90%	4.3	4.2	4.5	4.5	4.3	4.3	4.2	4.2	4.5	4.6	4.5	4.4
Long Term												
Full Simulation Period[a]	4.7	5.2	6.5	6.9	7.4	7.2	5.6	4.8	4.8	5.1	4.8	4.6
Water Year Types[b]												
Wet (31%)	4.7	7.2	11.3	9.5	12.0	11.3	8.8	5.7	5.4	5.3	5.0	5.0
Above Normal (25%)	4.8	4.3	5.2	11.3	11.4	9.3	5.2	4.6	4.7	5.1	4.7	4.5
Below Normal (6%)	5.0	4.4	4.6	5.8	6.1	5.4	4.4	4.3	4.5	4.4	4.5	4.4
Dry (13%)	4.4	4.7	5.0	5.0	4.9	5.9	4.7	4.7	4.7	5.4	4.9	4.5
Critical (25%)	5.0	4.4	4.7	4.9	4.5	4.5	4.3	4.3	4.5	4.8	4.6	4.5

Alternative 3 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.0	-0.9	0.0	-0.2	-0.3	-0.6	-0.5	-0.2	0.8	0.5	0.5	0.3
20%	1.5	-0.6	0.3	0.5	-0.4	-0.2	0.4	1.0	1.0	0.7	0.6	0.8
30%	1.3	0.6	0.7	-0.1	-0.1	-0.6	0.5	0.7	0.9	0.7	0.6	0.8
40%	1.2	0.8	0.7	0.4	-0.8	-0.9	0.8	0.7	0.8	0.5	0.7	0.9
50%	1.1	0.9	0.9	0.3	0.1	-0.5	0.8	0.8	0.8	0.4	0.7	0.9
60%	1.0	0.9	0.9	0.5	0.8	-0.5	0.8	1.0	0.8	0.4	0.7	0.9
70%	1.0	1.0	0.8	0.8	0.8	0.4	0.9	1.0	0.9	0.3	0.8	1.0
80%	1.1	1.0	0.8	1.0	0.9	0.7	1.0	1.0	0.9	0.2	0.7	0.9
90%	1.0	1.0	1.1	1.0	1.0	1.0	1.0	1.1	0.9	0.5	0.7	0.9
Long Term												
Full Simulation Period[a]	1.1	0.5	0.7	0.4	0.3	-0.1	0.6	0.6	0.6	0.5	0.6	0.7
Water Year Types[b]												
Wet (31%)	0.6	-0.3	0.2	-0.1	-0.4	-0.9	0.3	-0.6	-0.4	0.2	0.6	0.2
Above Normal (25%)	1.5	0.8	0.8	-0.4	0.2	-0.5	-0.3	0.4	0.9	0.8	0.7	0.7
Below Normal (6%)	1.4	0.9	1.2	0.5	-0.9	-0.6	0.7	0.5	0.7	-0.1	0.5	0.9
Dry (13%)	0.9	0.6	0.8	0.8	0.5	0.0	0.8	1.1	0.8	0.7	0.5	0.8
Critical (25%)	1.5	0.9	0.8	0.7	0.9	0.7	1.0	1.1	0.9	0.4	0.8	1.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-29-1-5. Sacramento River at Freeport, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	7.7	12.5	11.7	13.9	13.1	9.2	5.7	4.5	5.1	4.5	4.5
20%	3.6	6.4	5.2	10.0	13.0	10.8	4.9	3.9	3.9	4.8	4.3	3.9
30%	3.6	3.9	4.7	7.8	8.1	9.0	4.4	3.9	3.9	4.7	4.2	3.8
40%	3.5	3.8	4.4	5.5	6.9	6.9	3.8	3.8	3.9	4.7	4.1	3.8
50%	3.5	3.6	4.2	5.2	5.3	6.1	3.7	3.7	3.8	4.6	4.1	3.7
60%	3.4	3.5	4.0	4.6	3.9	5.7	3.6	3.5	3.8	4.6	4.0	3.7
70%	3.4	3.5	3.9	4.0	3.8	4.4	3.6	3.4	3.7	4.5	3.9	3.6
80%	3.3	3.3	3.8	3.7	3.7	3.6	3.4	3.4	3.6	4.4	3.9	3.6
90%	3.3	3.2	3.4	3.5	3.3	3.3	3.3	3.1	3.5	4.1	3.8	3.4
Long Term												
Full Simulation Period[a]	3.6	4.7	5.8	6.6	7.2	7.3	5.0	4.3	4.2	4.6	4.1	3.9
Water Year Types[b]												
Wet (31%)	4.1	7.4	11.1	9.6	12.4	12.2	8.4	6.3	5.8	5.1	4.4	4.7
Above Normal (25%)	3.2	3.5	4.5	11.8	11.2	9.9	5.5	4.2	3.8	4.4	4.0	3.7
Below Normal (6%)	3.6	3.5	3.4	5.3	7.0	6.0	3.7	3.8	3.7	4.5	4.0	3.6
Dry (13%)	3.5	4.1	4.2	4.2	4.4	5.9	3.9	3.6	3.9	4.7	4.3	3.7
Critical (25%)	3.5	3.6	3.9	4.2	3.6	3.8	3.3	3.2	3.6	4.4	3.8	3.5

Alternative 4 H1 (LLT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.8	6.8	12.1	11.4	13.5	12.2	8.6	5.5	5.3	5.8	5.1	4.9
20%	4.7	5.8	5.6	10.2	12.3	10.4	5.5	4.9	5.0	5.6	5.0	4.9
30%	4.6	4.5	5.4	7.6	7.8	8.6	4.8	4.6	4.9	5.4	4.9	4.7
40%	4.6	4.5	5.2	5.6	6.1	5.9	4.5	4.5	4.7	5.3	4.9	4.6
50%	4.5	4.5	5.1	5.5	5.4	5.6	4.5	4.5	4.7	5.2	4.8	4.6
60%	4.4	4.4	5.0	5.4	4.8	5.2	4.4	4.4	4.7	5.0	4.7	4.6
70%	4.4	4.4	4.7	5.2	4.6	4.7	4.4	4.4	4.6	4.9	4.7	4.6
80%	4.3	4.2	4.5	5.0	4.5	4.3	4.3	4.4	4.5	4.8	4.6	4.5
90%	4.3	4.2	4.4	4.6	4.3	4.3	4.2	4.2	4.5	4.6	4.5	4.4
Long Term												
Full Simulation Period[a]	4.5	5.1	6.4	6.9	7.4	7.2	5.5	4.8	4.8	5.2	4.8	4.7
Water Year Types[b]												
Wet (31%)	4.7	7.1	11.0	9.4	11.9	11.3	8.5	5.6	5.4	5.5	5.0	5.0
Above Normal (25%)	4.4	4.3	5.2	11.2	11.3	9.4	5.1	4.6	4.6	5.5	4.8	4.5
Below Normal (6%)	4.6	4.4	4.5	5.8	6.1	5.5	4.5	4.3	4.7	4.5	4.5	4.4
Dry (13%)	4.4	4.7	4.9	4.9	4.9	5.8	4.7	4.7	4.9	5.4	4.9	4.6
Critical (25%)	4.5	4.4	4.8	5.1	4.5	4.5	4.3	4.3	4.5	4.8	4.6	4.5

Alternative 4 H1 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.4	-0.9	-0.3	-0.3	-0.4	-0.9	-0.6	-0.2	0.8	0.8	0.6	0.4
20%	1.1	-0.6	0.3	0.2	-0.7	-0.4	0.6	1.1	1.0	0.8	0.8	1.0
30%	1.0	0.6	0.7	-0.2	-0.3	-0.4	0.5	0.8	1.0	0.8	0.7	0.8
40%	1.1	0.8	0.8	0.1	-0.8	-1.0	0.7	0.7	0.9	0.6	0.8	0.8
50%	1.1	0.8	0.9	0.3	0.1	-0.5	0.8	0.7	0.9	0.5	0.8	0.8
60%	1.0	0.9	0.9	0.8	0.9	-0.5	0.8	1.0	0.9	0.4	0.7	0.9
70%	1.0	1.0	0.8	1.2	0.8	0.2	0.8	1.0	0.9	0.4	0.8	1.0
80%	1.0	1.0	0.7	1.4	0.8	0.7	0.9	1.0	0.9	0.3	0.7	0.9
90%	1.0	0.9	1.0	1.1	1.0	1.0	1.0	1.1	0.9	0.4	0.7	1.0
Long Term												
Full Simulation Period[a]	0.9	0.5	0.6	0.4	0.2	-0.1	0.5	0.5	0.6	0.6	0.7	0.8
Water Year Types[b]												
Wet (31%)	0.5	-0.3	0.0	-0.2	-0.5	-0.9	0.1	-0.7	-0.4	0.4	0.7	0.3
Above Normal (25%)	1.1	0.8	0.8	-0.6	0.1	-0.5	-0.3	0.4	0.8	1.2	0.8	0.8
Below Normal (6%)	1.0	1.0	1.1	0.5	-1.0	-0.6	0.7	0.5	0.9	0.0	0.5	0.9
Dry (13%)	0.9	0.5	0.7	0.7	0.5	0.0	0.8	1.1	0.9	0.7	0.6	0.9
Critical (25%)	1.0	0.8	0.9	1.0	0.9	0.7	0.9	1.1	0.9	0.4	0.8	1.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-29-1-6. Sacramento River at Freeport, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	7.7	12.5	11.7	13.9	13.1	9.2	5.7	4.5	5.1	4.5	4.5
20%	3.6	6.4	5.2	10.0	13.0	10.8	4.9	3.9	3.9	4.8	4.3	3.9
30%	3.6	3.9	4.7	7.8	8.1	9.0	4.4	3.9	3.9	4.7	4.2	3.8
40%	3.5	3.8	4.4	5.5	6.9	6.9	3.8	3.8	3.9	4.7	4.1	3.8
50%	3.5	3.6	4.2	5.2	5.3	6.1	3.7	3.7	3.8	4.6	4.1	3.7
60%	3.4	3.5	4.0	4.6	3.9	5.7	3.6	3.5	3.8	4.6	4.0	3.7
70%	3.4	3.5	3.9	4.0	3.8	4.4	3.6	3.4	3.7	4.5	3.9	3.6
80%	3.3	3.3	3.8	3.7	3.7	3.6	3.4	3.4	3.6	4.4	3.9	3.6
90%	3.3	3.2	3.4	3.5	3.3	3.3	3.3	3.1	3.5	4.1	3.8	3.4
Long Term												
Full Simulation Period[a]	3.6	4.7	5.8	6.6	7.2	7.3	5.0	4.3	4.2	4.6	4.1	3.9
Water Year Types[b]												
Wet (31%)	4.1	7.4	11.1	9.6	12.4	12.2	8.4	6.3	5.8	5.1	4.4	4.7
Above Normal (25%)	3.2	3.5	4.5	11.8	11.2	9.9	5.5	4.2	3.8	4.4	4.0	3.7
Below Normal (6%)	3.6	3.5	3.4	5.3	7.0	6.0	3.7	3.8	3.7	4.5	4.0	3.6
Dry (13%)	3.5	4.1	4.2	4.2	4.4	5.9	3.9	3.6	3.9	4.7	4.3	3.7
Critical (25%)	3.5	3.6	3.9	4.2	3.6	3.8	3.3	3.2	3.6	4.4	3.8	3.5

Alternative 4 H2 (LLT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.9	6.9	12.3	11.4	13.6	12.2	8.8	5.5	5.1	5.4	5.0	4.9
20%	4.8	5.9	5.7	10.2	12.3	10.4	5.8	5.0	4.8	5.3	4.9	4.8
30%	4.8	4.5	5.4	7.6	7.9	8.8	5.6	4.8	4.8	5.1	4.9	4.6
40%	4.5	4.5	5.3	5.6	6.1	5.9	5.1	4.7	4.7	5.0	4.9	4.6
50%	4.4	4.5	5.0	5.5	5.4	5.7	4.5	4.6	4.6	5.0	4.8	4.6
60%	4.4	4.4	4.7	5.1	4.7	5.2	4.5	4.4	4.5	4.9	4.8	4.5
70%	4.4	4.4	4.6	5.0	4.6	4.7	4.4	4.4	4.5	4.8	4.8	4.5
80%	4.3	4.2	4.4	4.9	4.5	4.4	4.3	4.4	4.5	4.7	4.6	4.4
90%	4.3	4.2	4.4	4.7	4.3	4.3	4.2	4.2	4.4	4.6	4.5	4.4
Long Term												
Full Simulation Period[a]	4.5	5.2	6.4	6.9	7.4	7.2	5.8	4.8	4.8	5.0	4.8	4.7
Water Year Types[b]												
Wet (31%)	4.7	7.2	11.1	9.4	11.8	11.3	9.0	5.7	5.2	5.2	5.0	5.0
Above Normal (25%)	4.4	4.3	5.3	11.4	11.4	9.5	6.0	4.8	4.6	4.8	4.8	4.5
Below Normal (6%)	4.4	4.4	4.3	5.8	6.2	5.7	4.5	4.4	4.8	4.6	4.5	4.4
Dry (13%)	4.4	4.7	4.9	4.9	4.9	5.9	4.6	4.7	4.7	5.2	4.9	4.5
Critical (25%)	4.7	4.4	4.7	5.0	4.5	4.5	4.3	4.3	4.5	4.8	4.6	4.5

Alternative 4 H2 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.6	-0.8	-0.2	-0.3	-0.4	-0.9	-0.4	-0.2	0.6	0.3	0.5	0.4
20%	1.2	-0.5	0.4	0.2	-0.7	-0.4	0.8	1.2	0.9	0.5	0.6	0.8
30%	1.2	0.6	0.7	-0.2	-0.2	-0.2	1.2	1.0	0.9	0.5	0.6	0.8
40%	1.0	0.7	0.9	0.1	-0.8	-1.0	1.3	0.8	0.8	0.4	0.7	0.9
50%	0.9	0.8	0.8	0.2	0.1	-0.4	0.8	0.8	0.8	0.3	0.8	0.9
60%	1.0	0.9	0.7	0.5	0.8	-0.5	0.8	1.0	0.8	0.3	0.8	0.9
70%	1.0	0.9	0.8	1.0	0.8	0.3	0.8	0.9	0.8	0.3	0.8	1.0
80%	1.0	1.0	0.6	1.2	0.8	0.7	0.9	1.0	0.8	0.3	0.7	0.9
90%	1.0	0.9	1.0	1.2	1.0	1.0	1.0	1.1	0.9	0.5	0.7	0.9
Long Term												
Full Simulation Period[a]	0.9	0.5	0.6	0.4	0.2	-0.1	0.7	0.6	0.5	0.4	0.7	0.7
Water Year Types[b]												
Wet (31%)	0.6	-0.3	0.1	-0.2	-0.6	-0.9	0.6	-0.6	-0.6	0.1	0.7	0.3
Above Normal (25%)	1.2	0.8	0.9	-0.4	0.1	-0.4	0.5	0.7	0.7	0.5	0.8	0.8
Below Normal (6%)	0.8	0.9	0.9	0.5	-0.8	-0.3	0.7	0.5	1.1	0.1	0.5	0.9
Dry (13%)	0.9	0.6	0.7	0.7	0.5	0.0	0.8	1.1	0.8	0.5	0.5	0.8
Critical (25%)	1.2	0.9	0.8	0.9	0.9	0.7	0.9	1.1	0.9	0.4	0.8	1.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-29-1-7. Sacramento River at Freeport, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	7.7	12.5	11.7	13.9	13.1	9.2	5.7	4.5	5.1	4.5	4.5
20%	3.6	6.4	5.2	10.0	13.0	10.8	4.9	3.9	3.9	4.8	4.3	3.9
30%	3.6	3.9	4.7	7.8	8.1	9.0	4.4	3.9	3.9	4.7	4.2	3.8
40%	3.5	3.8	4.4	5.5	6.9	6.9	3.8	3.8	3.9	4.7	4.1	3.8
50%	3.5	3.6	4.2	5.2	5.3	6.1	3.7	3.7	3.8	4.6	4.1	3.7
60%	3.4	3.5	4.0	4.6	3.9	5.7	3.6	3.5	3.8	4.6	4.0	3.7
70%	3.4	3.5	3.9	4.0	3.8	4.4	3.6	3.4	3.7	4.5	3.9	3.6
80%	3.3	3.3	3.8	3.7	3.7	3.6	3.4	3.4	3.6	4.4	3.9	3.6
90%	3.3	3.2	3.4	3.5	3.3	3.3	3.3	3.1	3.5	4.1	3.8	3.4
Long Term												
Full Simulation Period[a]	3.6	4.7	5.8	6.6	7.2	7.3	5.0	4.3	4.2	4.6	4.1	3.9
Water Year Types[b]												
Wet (31%)	4.1	7.4	11.1	9.6	12.4	12.2	8.4	6.3	5.8	5.1	4.4	4.7
Above Normal (25%)	3.2	3.5	4.5	11.8	11.2	9.9	5.5	4.2	3.8	4.4	4.0	3.7
Below Normal (6%)	3.6	3.5	3.4	5.3	7.0	6.0	3.7	3.8	3.7	4.5	4.0	3.6
Dry (13%)	3.5	4.1	4.2	4.2	4.4	5.9	3.9	3.6	3.9	4.7	4.3	3.7
Critical (25%)	3.5	3.6	3.9	4.2	3.6	3.8	3.3	3.2	3.6	4.4	3.8	3.5

Alternative 4 H3 (LLT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.9	6.8	11.9	11.4	13.3	12.2	8.6	5.5	5.3	5.8	5.0	6.0
20%	4.7	5.8	5.4	10.2	12.3	10.4	5.5	4.9	5.0	5.6	5.0	5.7
30%	4.6	4.7	5.4	7.6	7.8	8.1	4.8	4.6	4.9	5.4	4.9	4.9
40%	4.6	4.5	5.3	5.6	6.1	5.9	4.5	4.5	4.9	5.3	4.8	4.8
50%	4.4	4.5	5.1	5.5	5.4	5.6	4.5	4.5	4.7	5.1	4.8	4.6
60%	4.4	4.4	5.0	5.5	4.8	5.2	4.4	4.4	4.7	5.0	4.7	4.6
70%	4.3	4.4	4.7	5.0	4.6	4.7	4.3	4.4	4.6	4.9	4.6	4.6
80%	4.3	4.2	4.5	4.8	4.5	4.3	4.3	4.4	4.5	4.8	4.6	4.5
90%	4.3	4.2	4.4	4.5	4.3	4.3	4.2	4.2	4.4	4.6	4.5	4.3
Long Term												
Full Simulation Period[a]	4.5	5.1	6.4	6.9	7.3	7.1	5.6	4.8	4.8	5.2	4.8	4.9
Water Year Types[b]												
Wet (31%)	4.6	7.0	10.9	9.4	11.8	11.1	8.6	5.6	5.4	5.5	5.0	5.9
Above Normal (25%)	4.5	4.3	5.3	11.0	11.0	9.4	5.1	4.6	4.6	5.5	4.8	4.9
Below Normal (6%)	4.4	4.4	4.3	5.8	6.1	5.5	4.5	4.3	4.9	4.5	4.5	4.3
Dry (13%)	4.4	4.7	4.9	4.9	4.9	5.6	4.6	4.8	4.9	5.4	4.8	4.6
Critical (25%)	4.5	4.5	4.8	5.0	4.4	4.5	4.3	4.3	4.5	4.8	4.6	4.5

Alternative 4 H3 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.6	-0.9	-0.6	-0.4	-0.7	-0.9	-0.6	-0.2	0.8	0.8	0.5	1.5
20%	1.0	-0.6	0.2	0.2	-0.7	-0.4	0.6	1.1	1.1	0.8	0.7	1.7
30%	1.0	0.8	0.6	-0.2	-0.3	-0.8	0.4	0.8	1.0	0.7	0.7	1.0
40%	1.1	0.8	0.8	0.2	-0.8	-1.0	0.7	0.7	1.0	0.6	0.7	1.0
50%	0.9	0.9	1.0	0.3	0.1	-0.5	0.8	0.8	0.9	0.5	0.7	0.9
60%	1.0	0.9	1.0	0.9	0.9	-0.5	0.8	1.0	0.9	0.4	0.7	0.9
70%	1.0	1.0	0.8	1.0	0.8	0.2	0.8	1.0	0.9	0.4	0.7	1.0
80%	1.0	1.0	0.7	1.1	0.8	0.7	0.9	1.0	0.9	0.3	0.7	1.0
90%	1.0	0.9	1.0	1.0	1.0	1.0	1.0	1.1	0.9	0.4	0.7	0.9
Long Term												
Full Simulation Period[a]	0.9	0.5	0.6	0.3	0.2	-0.2	0.5	0.5	0.6	0.5	0.7	1.0
Water Year Types[b]												
Wet (31%)	0.5	-0.4	-0.1	-0.2	-0.6	-1.1	0.2	-0.7	-0.4	0.4	0.7	1.2
Above Normal (25%)	1.3	0.8	0.9	-0.7	-0.2	-0.5	-0.3	0.4	0.8	1.2	0.8	1.1
Below Normal (6%)	0.8	1.0	0.9	0.5	-1.0	-0.6	0.7	0.5	1.1	0.0	0.5	0.8
Dry (13%)	1.0	0.6	0.7	0.6	0.5	-0.2	0.8	1.1	1.0	0.7	0.5	0.9
Critical (25%)	1.0	0.9	0.9	0.9	0.9	0.7	0.9	1.1	0.9	0.4	0.8	1.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-29-1-8. Sacramento River at Freeport, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	7.7	12.5	11.7	13.9	13.1	9.2	5.7	4.5	5.1	4.5	4.5
20%	3.6	6.4	5.2	10.0	13.0	10.8	4.9	3.9	3.9	4.8	4.3	3.9
30%	3.6	3.9	4.7	7.8	8.1	9.0	4.4	3.9	3.9	4.7	4.2	3.8
40%	3.5	3.8	4.4	5.5	6.9	6.9	3.8	3.8	3.9	4.7	4.1	3.8
50%	3.5	3.6	4.2	5.2	5.3	6.1	3.7	3.7	3.8	4.6	4.1	3.7
60%	3.4	3.5	4.0	4.6	3.9	5.7	3.6	3.5	3.8	4.6	4.0	3.7
70%	3.4	3.5	3.9	4.0	3.8	4.4	3.6	3.4	3.7	4.5	3.9	3.6
80%	3.3	3.3	3.8	3.7	3.7	3.6	3.4	3.4	3.6	4.4	3.9	3.6
90%	3.3	3.2	3.4	3.5	3.3	3.3	3.3	3.1	3.5	4.1	3.8	3.4
Long Term												
Full Simulation Period[a]	3.6	4.7	5.8	6.6	7.2	7.3	5.0	4.3	4.2	4.6	4.1	3.9
Water Year Types[b]												
Wet (31%)	4.1	7.4	11.1	9.6	12.4	12.2	8.4	6.3	5.8	5.1	4.4	4.7
Above Normal (25%)	3.2	3.5	4.5	11.8	11.2	9.9	5.5	4.2	3.8	4.4	4.0	3.7
Below Normal (6%)	3.6	3.5	3.4	5.3	7.0	6.0	3.7	3.8	3.7	4.5	4.0	3.6
Dry (13%)	3.5	4.1	4.2	4.2	4.4	5.9	3.9	3.6	3.9	4.7	4.3	3.7
Critical (25%)	3.5	3.6	3.9	4.2	3.6	3.8	3.3	3.2	3.6	4.4	3.8	3.5

Alternative 4 H4 (LLT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.9	6.7	12.1	11.4	13.3	12.2	8.8	5.5	5.1	5.4	5.0	6.0
20%	4.7	5.8	5.4	10.2	12.3	10.4	5.8	5.0	4.8	5.2	4.9	5.8
30%	4.7	4.7	5.4	7.6	7.9	8.6	5.6	4.8	4.8	5.1	4.9	4.9
40%	4.6	4.5	5.2	5.6	6.1	5.9	5.1	4.7	4.7	5.0	4.9	4.6
50%	4.5	4.5	5.0	5.4	5.4	5.6	4.5	4.6	4.6	4.9	4.8	4.6
60%	4.4	4.4	4.7	5.1	4.7	5.2	4.5	4.4	4.6	4.9	4.8	4.6
70%	4.3	4.4	4.6	4.8	4.6	4.7	4.4	4.4	4.5	4.8	4.8	4.6
80%	4.3	4.3	4.5	4.5	4.5	4.3	4.3	4.4	4.5	4.7	4.6	4.6
90%	4.2	4.2	4.4	4.4	4.3	4.3	4.2	4.2	4.4	4.6	4.5	4.4
Long Term												
Full Simulation Period[a]	4.5	5.1	6.4	6.8	7.3	7.2	5.8	4.8	4.7	5.0	4.8	4.9
Water Year Types[b]												
Wet (31%)	4.7	7.0	11.0	9.4	11.8	11.2	9.0	5.7	5.2	5.2	5.0	5.9
Above Normal (25%)	4.5	4.3	5.3	11.3	11.1	9.4	6.0	4.8	4.6	4.8	4.8	4.9
Below Normal (6%)	4.3	4.4	4.5	5.8	6.1	5.5	4.5	4.4	4.7	4.6	4.4	4.4
Dry (13%)	4.4	4.7	4.8	4.9	4.9	5.8	4.6	4.7	4.7	5.1	4.9	4.5
Critical (25%)	4.5	4.5	4.7	4.8	4.5	4.5	4.3	4.3	4.5	4.8	4.6	4.5

Alternative 4 H4 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.6	-1.0	-0.4	-0.3	-0.7	-0.9	-0.4	-0.2	0.6	0.3	0.5	1.4
20%	1.1	-0.6	0.2	0.2	-0.7	-0.4	0.8	1.2	0.9	0.4	0.6	1.9
30%	1.1	0.8	0.6	-0.2	-0.2	-0.3	1.2	1.0	0.8	0.4	0.6	1.1
40%	1.1	0.8	0.8	0.1	-0.8	-1.0	1.3	0.8	0.8	0.3	0.7	0.9
50%	1.0	0.9	0.8	0.2	0.1	-0.5	0.8	0.8	0.8	0.3	0.8	0.9
60%	0.9	0.9	0.7	0.5	0.8	-0.5	0.8	1.0	0.8	0.3	0.8	0.9
70%	1.0	1.0	0.8	0.8	0.8	0.2	0.8	0.9	0.8	0.3	0.8	1.0
80%	1.0	1.0	0.7	0.9	0.8	0.7	0.9	1.0	0.8	0.3	0.7	1.0
90%	1.0	1.0	1.0	0.9	1.0	1.0	1.0	1.1	0.9	0.5	0.7	0.9
Long Term												
Full Simulation Period[a]	0.9	0.5	0.6	0.3	0.2	-0.1	0.7	0.6	0.5	0.3	0.7	1.0
Water Year Types[b]												
Wet (31%)	0.6	-0.4	-0.1	-0.2	-0.6	-1.0	0.6	-0.6	-0.6	0.1	0.7	1.2
Above Normal (25%)	1.3	0.8	0.8	-0.4	-0.2	-0.4	0.5	0.6	0.7	0.5	0.8	1.2
Below Normal (6%)	0.7	1.0	1.1	0.5	-0.9	-0.6	0.7	0.5	1.0	0.1	0.4	0.8
Dry (13%)	0.9	0.6	0.6	0.6	0.5	0.0	0.7	1.1	0.8	0.4	0.5	0.8
Critical (25%)	1.0	0.9	0.8	0.6	0.9	0.7	0.9	1.1	0.9	0.4	0.8	1.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-29-1-9. Sacramento River at Freeport, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	4.3	7.7	12.5	11.7	13.9	13.1	9.2	5.7	4.5	5.1	4.5	4.5
20%	3.6	6.4	5.2	10.0	13.0	10.8	4.9	3.9	3.9	4.8	4.3	3.9
30%	3.6	3.9	4.7	7.8	8.1	9.0	4.4	3.9	3.9	4.7	4.2	3.8
40%	3.5	3.8	4.4	5.5	6.9	6.9	3.8	3.8	3.9	4.7	4.1	3.8
50%	3.5	3.6	4.2	5.2	5.3	6.1	3.7	3.7	3.8	4.6	4.1	3.7
60%	3.4	3.5	4.0	4.6	3.9	5.7	3.6	3.5	3.8	4.6	4.0	3.7
70%	3.4	3.5	3.9	4.0	3.8	4.4	3.6	3.4	3.7	4.5	3.9	3.6
80%	3.3	3.3	3.8	3.7	3.7	3.6	3.4	3.4	3.6	4.4	3.9	3.6
90%	3.3	3.2	3.4	3.5	3.3	3.3	3.3	3.1	3.5	4.1	3.8	3.4
Long Term												
Full Simulation Period[a]	3.6	4.7	5.8	6.6	7.2	7.3	5.0	4.3	4.2	4.6	4.1	3.9
Water Year Types[b]												
Wet (31%)	4.1	7.4	11.1	9.6	12.4	12.2	8.4	6.3	5.8	5.1	4.4	4.7
Above Normal (25%)	3.2	3.5	4.5	11.8	11.2	9.9	5.5	4.2	3.8	4.4	4.0	3.7
Below Normal (6%)	3.6	3.5	3.4	5.3	7.0	6.0	3.7	3.8	3.7	4.5	4.0	3.6
Dry (13%)	3.5	4.1	4.2	4.2	4.4	5.9	3.9	3.6	3.9	4.7	4.3	3.7
Critical (25%)	3.5	3.6	3.9	4.2	3.6	3.8	3.3	3.2	3.6	4.4	3.8	3.5

Alternative 5 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	4.8	6.9	12.6	11.9	14.0	12.9	9.1	5.5	5.2	5.8	5.2	5.9
20%	4.7	5.7	5.4	10.8	13.1	11.1	5.5	4.9	4.9	5.5	5.1	5.5
30%	4.6	4.7	5.4	7.8	8.3	8.7	4.9	4.6	4.8	5.5	5.0	4.7
40%	4.5	4.6	5.1	5.7	6.3	6.1	4.6	4.5	4.8	5.4	4.8	4.6
50%	4.4	4.5	5.1	5.6	5.4	5.8	4.5	4.5	4.7	5.3	4.8	4.6
60%	4.3	4.4	4.9	5.2	4.7	5.3	4.4	4.4	4.7	5.3	4.7	4.6
70%	4.3	4.4	4.7	4.9	4.7	4.7	4.4	4.4	4.6	5.0	4.7	4.6
80%	4.3	4.3	4.6	4.8	4.6	4.3	4.3	4.4	4.5	5.0	4.6	4.5
90%	4.2	4.2	4.5	4.5	4.3	4.3	4.2	4.2	4.4	4.7	4.5	4.3
Long Term												
Full Simulation Period[a]	4.5	5.2	6.5	7.1	7.6	7.4	5.7	4.8	4.8	5.3	4.8	4.9
Water Year Types[b]												
Wet (31%)	4.6	7.3	11.4	9.8	12.4	11.8	8.9	5.8	5.5	5.6	5.1	5.9
Above Normal (25%)	4.2	4.3	5.3	11.8	11.7	9.8	5.3	4.6	4.7	5.5	4.8	4.7
Below Normal (6%)	4.3	4.4	4.6	5.8	6.3	5.6	4.4	4.3	4.8	5.0	4.5	4.4
Dry (13%)	4.4	4.7	4.9	4.9	5.0	5.9	4.6	4.6	4.8	5.4	4.9	4.5
Critical (25%)	4.6	4.5	4.7	5.0	4.5	4.6	4.3	4.3	4.5	4.9	4.6	4.5

Alternative 5 (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.5	**-0.8**	0.1	0.2	0.1	**-0.2**	**-0.1**	**-0.2**	0.7	0.7	0.6	1.4
20%	1.0	**-0.6**	0.2	0.8	0.0	0.2	0.5	1.0	1.0	0.8	0.9	1.6
30%	1.0	0.8	0.6	0.1	0.2	**-0.3**	0.5	0.7	0.9	0.8	0.7	0.9
40%	1.0	0.9	0.7	0.3	**-0.6**	**-0.7**	0.8	0.7	0.9	0.8	0.7	0.9
50%	0.9	0.9	0.9	0.4	0.2	**-0.3**	0.8	0.7	0.9	0.7	0.7	0.9
60%	0.9	0.9	0.8	0.6	0.8	**-0.4**	0.8	1.0	0.9	0.7	0.7	0.9
70%	0.9	1.0	0.8	0.9	0.8	0.3	0.8	1.0	0.9	0.5	0.7	1.0
80%	1.0	1.0	0.8	1.1	0.8	0.7	1.0	1.0	0.9	0.5	0.7	0.9
90%	1.0	1.0	1.1	1.0	1.0	1.0	1.0	1.1	0.9	0.6	0.7	0.9
Long Term												
Full Simulation Period[a]	0.9	0.5	0.7	0.5	0.4	0.1	0.7	0.6	0.6	0.6	0.7	1.0
Water Year Types[b]												
Wet (31%)	0.5	**-0.1**	0.3	0.2	0.0	**-0.4**	0.5	**-0.5**	**-0.3**	0.4	0.7	1.2
Above Normal (25%)	1.0	0.8	0.8	0.0	0.4	**-0.1**	**-0.2**	0.4	0.9	1.1	0.7	1.0
Below Normal (6%)	0.7	1.0	1.2	0.5	**-0.7**	**-0.4**	0.7	0.5	1.0	0.5	0.5	0.8
Dry (13%)	0.9	0.6	0.7	0.7	0.6	0.0	0.8	1.0	0.8	0.7	0.6	0.8
Critical (25%)	1.1	0.9	0.8	0.8	0.9	0.7	1.0	1.1	0.9	0.5	0.8	1.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-29-1-10. Sacramento River at Freeport, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	7.7	12.5	11.7	13.9	13.1	9.2	5.7	4.5	5.1	4.5	4.5
20%	3.6	6.4	5.2	10.0	13.0	10.8	4.9	3.9	3.9	4.8	4.3	3.9
30%	3.6	3.9	4.7	7.8	8.1	9.0	4.4	3.9	3.9	4.7	4.2	3.8
40%	3.5	3.8	4.4	5.5	6.9	6.9	3.8	3.8	3.9	4.7	4.1	3.8
50%	3.5	3.6	4.2	5.2	5.3	6.1	3.7	3.7	3.8	4.6	4.1	3.7
60%	3.4	3.5	4.0	4.6	3.9	5.7	3.6	3.5	3.8	4.6	4.0	3.7
70%	3.4	3.5	3.9	4.0	3.8	4.4	3.6	3.4	3.7	4.5	3.9	3.6
80%	3.3	3.3	3.8	3.7	3.7	3.6	3.4	3.4	3.6	4.4	3.9	3.6
90%	3.3	3.2	3.4	3.5	3.3	3.3	3.3	3.1	3.5	4.1	3.8	3.4
Long Term												
Full Simulation Period[a]	3.6	4.7	5.8	6.6	7.2	7.3	5.0	4.3	4.2	4.6	4.1	3.9
Water Year Types[b]												
Wet (31%)	4.1	7.4	11.1	9.6	12.4	12.2	8.4	6.3	5.8	5.1	4.4	4.7
Above Normal (25%)	3.2	3.5	4.5	11.8	11.2	9.9	5.5	4.2	3.8	4.4	4.0	3.7
Below Normal (6%)	3.6	3.5	3.4	5.3	7.0	6.0	3.7	3.8	3.7	4.5	4.0	3.6
Dry (13%)	3.5	4.1	4.2	4.2	4.4	5.9	3.9	3.6	3.9	4.7	4.3	3.7
Critical (25%)	3.5	3.6	3.9	4.2	3.6	3.8	3.3	3.2	3.6	4.4	3.8	3.5

Alternative 6A,6B,6C (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.8	7.1	12.1	10.9	13.3	12.3	8.7	5.2	5.0	5.3	5.1	5.6
20%	4.6	5.9	5.5	9.9	12.1	10.8	5.5	4.8	4.7	5.1	4.9	5.4
30%	4.5	4.7	5.4	7.8	7.7	8.4	4.8	4.6	4.7	5.0	4.9	4.8
40%	4.5	4.6	5.1	5.8	6.2	5.9	4.5	4.5	4.6	5.0	4.8	4.7
50%	4.5	4.5	5.0	5.6	5.5	5.7	4.5	4.5	4.6	5.0	4.8	4.7
60%	4.4	4.5	4.8	5.2	5.3	5.3	4.5	4.4	4.5	4.9	4.7	4.6
70%	4.4	4.5	4.6	4.9	4.7	4.7	4.3	4.4	4.5	4.9	4.7	4.6
80%	4.3	4.3	4.4	4.5	4.5	4.4	4.3	4.3	4.4	4.8	4.7	4.5
90%	4.3	4.2	4.4	4.4	4.3	4.2	4.2	4.2	4.4	4.8	4.6	4.4
Long Term												
Full Simulation Period[a]	4.5	5.2	6.4	6.8	7.4	7.2	5.6	4.8	4.7	5.0	4.8	4.8
Water Year Types[b]												
Wet (31%)	4.7	7.0	11.1	9.4	12.0	11.4	8.7	5.7	5.2	5.3	5.1	5.6
Above Normal (25%)	4.2	4.4	5.2	10.9	10.6	9.6	5.2	4.6	4.5	5.0	4.8	4.7
Below Normal (6%)	4.4	4.5	4.3	5.8	6.2	5.5	4.5	4.3	4.7	4.7	4.7	4.6
Dry (13%)	4.5	4.8	4.9	4.9	5.0	5.7	4.7	4.6	4.6	5.0	4.8	4.6
Critical (25%)	4.5	4.5	4.7	4.9	4.6	4.5	4.3	4.3	4.5	4.8	4.7	4.5

Alternative 6A,6B,6C (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.5	**-0.6**	**-0.4**	**-0.8**	**-0.6**	**-0.8**	**-0.5**	**-0.5**	0.5	0.2	0.6	1.0
20%	1.0	**-0.5**	0.3	**-0.1**	**-0.9**	0.0	0.5	0.9	0.8	0.3	0.7	1.4
30%	0.9	0.8	0.7	0.1	**-0.4**	**-0.6**	0.4	0.7	0.8	0.4	0.6	0.9
40%	1.0	0.9	0.7	0.4	**-0.7**	**-1.0**	0.7	0.7	0.8	0.3	0.7	0.9
50%	1.0	0.9	0.8	0.4	0.2	**-0.4**	0.8	0.8	0.7	0.4	0.8	0.9
60%	1.0	0.9	0.7	0.6	1.4	**-0.4**	0.8	1.0	0.7	0.3	0.7	1.0
70%	1.0	1.0	0.8	0.9	0.8	0.3	0.8	0.9	0.8	0.4	0.8	1.0
80%	1.1	1.0	0.6	0.9	0.8	0.7	0.9	0.9	0.8	0.4	0.8	1.0
90%	1.0	0.9	1.0	0.9	1.0	0.9	1.0	1.1	0.9	0.6	0.8	1.0
Long Term												
Full Simulation Period[a]	0.9	0.5	0.6	0.2	0.2	**-0.1**	0.6	0.5	0.4	0.3	0.7	0.9
Water Year Types[b]												
Wet (31%)	0.6	**-0.4**	0.0	**-0.2**	**-0.4**	**-0.8**	0.3	**-0.6**	**-0.6**	0.2	0.7	0.8
Above Normal (25%)	1.0	0.8	0.8	**-0.9**	**-0.6**	**-0.2**	**-0.3**	0.4	0.6	0.7	0.8	1.0
Below Normal (6%)	0.8	1.0	0.9	0.5	**-0.9**	**-0.6**	0.8	0.5	0.9	0.2	0.7	1.0
Dry (13%)	1.0	0.6	0.7	0.7	0.6	**-0.1**	0.8	0.9	0.7	0.3	0.5	0.9
Critical (25%)	1.0	0.9	0.8	0.7	1.0	0.6	0.9	1.1	0.9	0.4	0.9	1.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-29-1-11. Sacramento River at Freeport, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	7.7	12.5	11.7	13.9	13.1	9.2	5.7	4.5	5.1	4.5	4.5
20%	3.6	6.4	5.2	10.0	13.0	10.8	4.9	3.9	3.9	4.8	4.3	3.9
30%	3.6	3.9	4.7	7.8	8.1	9.0	4.4	3.9	3.9	4.7	4.2	3.8
40%	3.5	3.8	4.4	5.5	6.9	6.9	3.8	3.8	3.9	4.7	4.1	3.8
50%	3.5	3.6	4.2	5.2	5.3	6.1	3.7	3.7	3.8	4.6	4.1	3.7
60%	3.4	3.5	4.0	4.6	3.9	5.7	3.6	3.5	3.8	4.6	4.0	3.7
70%	3.4	3.5	3.9	4.0	3.8	4.4	3.6	3.4	3.7	4.5	3.9	3.6
80%	3.3	3.3	3.8	3.7	3.7	3.6	3.4	3.4	3.6	4.4	3.9	3.6
90%	3.3	3.2	3.4	3.5	3.3	3.3	3.3	3.1	3.5	4.1	3.8	3.4
Long Term												
Full Simulation Period[a]	3.6	4.7	5.8	6.6	7.2	7.3	5.0	4.3	4.2	4.6	4.1	3.9
Water Year Types[b]												
Wet (31%)	4.1	7.4	11.1	9.6	12.4	12.2	8.4	6.3	5.8	5.1	4.4	4.7
Above Normal (25%)	3.2	3.5	4.5	11.8	11.2	9.9	5.5	4.2	3.8	4.4	4.0	3.7
Below Normal (6%)	3.6	3.5	3.4	5.3	7.0	6.0	3.7	3.8	3.7	4.5	4.0	3.6
Dry (13%)	3.5	4.1	4.2	4.2	4.4	5.9	3.9	3.6	3.9	4.7	4.3	3.7
Critical (25%)	3.5	3.6	3.9	4.2	3.6	3.8	3.3	3.2	3.6	4.4	3.8	3.5

Alternative 7 (LLT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.7	6.8	12.3	11.2	13.2	12.2	8.6	5.3	5.1	5.7	5.1	6.0
20%	4.6	5.8	5.4	10.3	12.2	10.3	5.4	4.8	4.8	5.3	4.9	5.6
30%	4.5	4.7	5.4	7.4	7.7	8.0	4.8	4.6	4.8	5.3	4.8	4.9
40%	4.5	4.6	5.1	5.6	6.0	5.8	4.5	4.5	4.7	5.3	4.8	4.6
50%	4.5	4.6	5.0	5.5	5.4	5.5	4.5	4.5	4.7	5.1	4.8	4.6
60%	4.4	4.5	4.8	5.1	5.2	5.2	4.5	4.4	4.7	5.0	4.7	4.6
70%	4.4	4.5	4.6	4.8	4.7	4.7	4.3	4.4	4.6	4.9	4.7	4.5
80%	4.4	4.3	4.4	4.5	4.5	4.4	4.3	4.3	4.5	4.9	4.7	4.5
90%	4.3	4.2	4.4	4.4	4.3	4.3	4.3	4.3	4.5	4.8	4.6	4.4
Long Term												
Full Simulation Period[a]	4.5	5.2	6.4	6.8	7.3	7.1	5.5	4.8	4.8	5.2	4.8	4.9
Water Year Types[b]												
Wet (31%)	4.7	7.1	11.1	9.3	11.7	11.1	8.5	5.6	5.4	5.4	5.0	5.9
Above Normal (25%)	4.2	4.4	5.2	11.3	10.9	9.0	5.1	4.6	4.7	5.1	4.8	4.9
Below Normal (6%)	4.4	4.5	4.4	5.8	6.0	5.6	4.5	4.4	4.5	5.0	4.6	4.4
Dry (13%)	4.5	4.7	4.8	4.9	4.9	5.7	4.6	4.6	4.7	5.4	4.9	4.5
Critical (25%)	4.4	4.5	4.7	4.8	4.6	4.5	4.3	4.4	4.5	4.8	4.7	4.5

Alternative 7 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.4	-0.8	-0.2	-0.5	-0.7	-0.9	-0.6	-0.4	0.6	0.7	0.6	1.5
20%	1.0	-0.6	0.2	0.3	-0.8	-0.5	0.4	0.9	0.9	0.6	0.6	1.6
30%	0.9	0.8	0.6	-0.3	-0.4	-1.0	0.4	0.7	0.9	0.6	0.6	1.0
40%	1.0	0.8	0.7	0.1	-0.9	-1.1	0.8	0.7	0.8	0.6	0.7	0.9
50%	1.0	0.9	0.8	0.3	0.1	-0.6	0.8	0.8	0.9	0.5	0.8	0.9
60%	1.0	0.9	0.7	0.5	1.3	-0.5	0.8	1.0	0.9	0.4	0.7	0.9
70%	1.0	1.0	0.8	0.8	0.8	0.3	0.8	1.0	0.9	0.5	0.8	1.0
80%	1.1	1.0	0.7	0.9	0.8	0.7	0.9	0.9	0.9	0.5	0.8	0.9
90%	1.0	1.0	1.0	0.9	1.0	1.0	1.0	1.1	0.9	0.6	0.9	0.9
Long Term												
Full Simulation Period[a]	0.9	0.5	0.6	0.2	0.2	-0.2	0.5	0.5	0.5	0.5	0.7	1.0
Water Year Types[b]												
Wet (31%)	0.6	-0.3	0.1	-0.3	-0.7	-1.1	0.0	-0.7	-0.4	0.3	0.6	1.2
Above Normal (25%)	1.0	0.8	0.7	-0.5	-0.3	-0.8	-0.3	0.4	0.8	0.8	0.8	1.2
Below Normal (6%)	0.8	1.0	0.9	0.4	-1.0	-0.5	0.8	0.5	0.8	0.5	0.6	0.9
Dry (13%)	1.0	0.6	0.6	0.7	0.5	-0.1	0.8	0.9	0.8	0.7	0.6	0.8
Critical (25%)	0.9	1.0	0.8	0.6	1.0	0.6	0.9	1.2	1.0	0.4	0.9	1.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-29-1-12. Sacramento River at Freeport, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	7.7	12.5	11.7	13.9	13.1	9.2	5.7	4.5	5.1	4.5	4.5
20%	3.6	6.4	5.2	10.0	13.0	10.8	4.9	3.9	3.9	4.8	4.3	3.9
30%	3.6	3.9	4.7	7.8	8.1	9.0	4.4	3.9	3.9	4.7	4.2	3.8
40%	3.5	3.8	4.4	5.5	6.9	6.9	3.8	3.8	3.9	4.7	4.1	3.8
50%	3.5	3.6	4.2	5.2	5.3	6.1	3.7	3.7	3.8	4.6	4.1	3.7
60%	3.4	3.5	4.0	4.6	3.9	5.7	3.6	3.5	3.8	4.6	4.0	3.7
70%	3.4	3.5	3.9	4.0	3.8	4.4	3.6	3.4	3.7	4.5	3.9	3.6
80%	3.3	3.3	3.8	3.7	3.7	3.6	3.4	3.4	3.6	4.4	3.9	3.6
90%	3.3	3.2	3.4	3.5	3.3	3.3	3.3	3.1	3.5	4.1	3.8	3.4
Long Term												
Full Simulation Period[a]	3.6	4.7	5.8	6.6	7.2	7.3	5.0	4.3	4.2	4.6	4.1	3.9
Water Year Types[b]												
Wet (31%)	4.1	7.4	11.1	9.6	12.4	12.2	8.4	6.3	5.8	5.1	4.4	4.7
Above Normal (25%)	3.2	3.5	4.5	11.8	11.2	9.9	5.5	4.2	3.8	4.4	4.0	3.7
Below Normal (6%)	3.6	3.5	3.4	5.3	7.0	6.0	3.7	3.8	3.7	4.5	4.0	3.6
Dry (13%)	3.5	4.1	4.2	4.2	4.4	5.9	3.9	3.6	3.9	4.7	4.3	3.7
Critical (25%)	3.5	3.6	3.9	4.2	3.6	3.8	3.3	3.2	3.6	4.4	3.8	3.5

Alternative 8 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.7	7.2	12.3	11.2	13.1	12.2	8.9	5.6	5.0	5.2	4.9	5.7
20%	4.5	5.9	5.4	10.3	12.2	10.2	5.8	5.0	4.7	4.9	4.8	5.4
30%	4.4	4.7	5.4	7.7	8.4	8.6	5.0	4.8	4.7	4.9	4.8	4.6
40%	4.4	4.6	5.1	6.0	5.9	6.2	4.8	4.6	4.7	4.9	4.8	4.6
50%	4.3	4.5	5.0	5.8	5.7	6.0	4.7	4.6	4.7	4.8	4.7	4.6
60%	4.3	4.5	4.8	5.3	5.3	5.5	4.6	4.6	4.6	4.8	4.6	4.6
70%	4.2	4.4	4.6	4.9	4.8	5.0	4.5	4.5	4.5	4.7	4.6	4.5
80%	4.2	4.2	4.4	4.5	4.5	4.6	4.5	4.4	4.5	4.7	4.6	4.4
90%	4.2	4.2	4.4	4.5	4.4	4.4	4.4	4.4	4.5	4.6	4.5	4.3
Long Term												
Full Simulation Period[a]	4.4	5.2	6.4	7.0	7.5	7.3	5.8	5.0	4.8	4.8	4.7	4.8
Water Year Types[b]												
Wet (31%)	4.6	7.3	11.2	9.5	11.7	11.1	8.6	6.1	5.4	5.1	4.9	5.7
Above Normal (25%)	4.2	4.3	5.2	11.5	11.0	9.2	5.5	4.8	4.6	4.7	4.6	4.6
Below Normal (6%)	4.2	4.4	4.3	6.0	6.9	6.0	4.7	4.8	4.5	4.5	4.5	4.3
Dry (13%)	4.3	4.7	4.9	5.0	5.2	6.2	4.9	4.6	4.6	4.8	4.7	4.5
Critical (25%)	4.3	4.5	4.7	4.9	4.6	4.7	4.4	4.4	4.5	4.7	4.6	4.5

Alternative 8 (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.3	**-0.5**	**-0.2**	**-0.5**	**-0.8**	**-0.9**	**-0.3**	**-0.1**	0.5	0.1	0.4	1.2
20%	0.8	**-0.5**	0.2	0.3	**-0.8**	**-0.6**	0.9	1.2	0.8	0.1	0.6	1.5
30%	0.8	0.8	0.6	**-0.1**	0.2	**-0.4**	0.7	1.0	0.8	0.2	0.6	0.8
40%	0.9	0.8	0.7	0.6	**-1.0**	**-0.7**	1.0	0.8	0.8	0.2	0.6	0.8
50%	0.8	0.9	0.8	0.5	0.4	**-0.1**	1.0	0.9	0.8	0.2	0.7	0.9
60%	0.8	0.9	0.7	0.7	1.4	**-0.2**	1.0	1.1	0.8	0.2	0.6	0.9
70%	0.9	1.0	0.8	0.9	1.0	0.6	1.0	1.1	0.8	0.2	0.7	1.0
80%	0.9	1.0	0.6	0.9	0.8	1.0	1.1	1.0	0.9	0.3	0.7	0.9
90%	0.9	0.9	1.0	1.0	1.1	1.1	1.1	1.2	0.9	0.4	0.7	0.9
Long Term												
Full Simulation Period[a]	0.8	0.6	0.6	0.4	0.3	**0.0**	0.7	0.7	0.5	0.2	0.6	0.9
Water Year Types[b]												
Wet (31%)	0.5	**-0.1**	0.1	**-0.1**	**-0.7**	**-1.1**	0.2	**-0.2**	**-0.4**	0.0	0.5	1.0
Above Normal (25%)	1.0	0.8	0.7	**-0.3**	**-0.2**	**-0.7**	0.1	0.6	0.7	0.3	0.6	0.9
Below Normal (6%)	0.6	0.9	0.9	0.7	**-0.2**	**0.0**	1.0	1.0	0.7	**0.0**	0.5	0.8
Dry (13%)	0.8	0.6	0.7	0.8	0.8	0.4	1.1	1.0	0.7	0.2	0.4	0.8
Critical (25%)	0.8	0.9	0.8	0.7	1.0	0.8	1.0	1.2	1.0	0.4	0.8	0.9

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-29-1-13. Sacramento River at Freeport, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	7.7	12.5	11.7	13.9	13.1	9.2	5.7	4.5	5.1	4.5	4.5
20%	3.6	6.4	5.2	10.0	13.0	10.8	4.9	3.9	3.9	4.8	4.3	3.9
30%	3.6	3.9	4.7	7.8	8.1	9.0	4.4	3.9	3.9	4.7	4.2	3.8
40%	3.5	3.8	4.4	5.5	6.9	6.9	3.8	3.8	3.9	4.7	4.1	3.8
50%	3.5	3.6	4.2	5.2	5.3	6.1	3.7	3.7	3.8	4.6	4.1	3.7
60%	3.4	3.5	4.0	4.6	3.9	5.7	3.6	3.5	3.8	4.6	4.0	3.7
70%	3.4	3.5	3.9	4.0	3.8	4.4	3.6	3.4	3.7	4.5	3.9	3.6
80%	3.3	3.3	3.8	3.7	3.7	3.6	3.4	3.4	3.6	4.4	3.9	3.6
90%	3.3	3.2	3.4	3.5	3.3	3.3	3.3	3.1	3.5	4.1	3.8	3.4
Long Term												
Full Simulation Period[a]	3.6	4.7	5.8	6.6	7.2	7.3	5.0	4.3	4.2	4.6	4.1	3.9
Water Year Types[b]												
Wet (31%)	4.1	7.4	11.1	9.6	12.4	12.2	8.4	6.3	5.8	5.1	4.4	4.7
Above Normal (25%)	3.2	3.5	4.5	11.8	11.2	9.9	5.5	4.2	3.8	4.4	4.0	3.7
Below Normal (6%)	3.6	3.5	3.4	5.3	7.0	6.0	3.7	3.8	3.7	4.5	4.0	3.6
Dry (13%)	3.5	4.1	4.2	4.2	4.4	5.9	3.9	3.6	3.9	4.7	4.3	3.7
Critical (25%)	3.5	3.6	3.9	4.2	3.6	3.8	3.3	3.2	3.6	4.4	3.8	3.5

Alternative 9 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.8	7.1	12.9	12.5	14.5	13.5	9.3	5.7	5.1	5.6	5.2	6.7
20%	4.7	5.9	5.3	11.4	13.6	11.6	5.5	4.9	4.9	5.5	5.1	6.1
30%	4.6	5.0	5.3	8.1	8.8	9.0	4.9	4.7	4.8	5.4	5.1	5.2
40%	4.5	4.6	5.1	5.8	6.6	6.4	4.5	4.6	4.8	5.4	5.1	4.6
50%	4.4	4.6	4.9	5.7	5.6	6.1	4.5	4.4	4.7	5.3	5.0	4.6
60%	4.4	4.5	4.7	5.1	4.7	5.5	4.4	4.4	4.7	5.2	4.9	4.6
70%	4.3	4.4	4.6	4.7	4.5	4.7	4.4	4.4	4.6	5.0	4.8	4.6
80%	4.3	4.2	4.5	4.4	4.4	4.3	4.3	4.3	4.5	4.9	4.7	4.5
90%	4.3	4.2	4.4	4.3	4.2	4.2	4.2	4.2	4.5	4.8	4.6	4.4
Long Term												
Full Simulation Period[a]	4.5	5.3	6.5	7.2	7.8	7.6	5.7	4.9	4.8	5.3	4.9	5.1
Water Year Types[b]												
Wet (31%)	4.8	7.4	11.7	10.3	12.9	12.3	9.1	6.0	5.5	5.5	5.2	6.5
Above Normal (25%)	4.2	4.4	5.1	12.4	12.2	10.3	5.6	4.6	4.6	5.5	5.0	5.2
Below Normal (6%)	4.5	4.8	4.5	5.8	6.6	6.0	4.5	4.3	4.7	4.9	4.7	4.5
Dry (13%)	4.5	4.7	4.8	4.8	5.0	6.0	4.6	4.8	4.8	5.3	5.0	4.5
Critical (25%)	4.4	4.6	4.7	4.8	4.4	4.5	4.2	4.3	4.5	5.0	4.7	4.5

Alternative 9 (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.5	-0.6	0.4	0.8	0.6	0.4	0.1	0.0	0.6	0.5	0.7	2.1
20%	1.0	-0.5	0.1	1.4	0.6	0.8	0.6	1.0	1.0	0.8	0.9	2.1
30%	1.0	1.1	0.6	0.3	0.7	0.1	0.6	0.8	0.9	0.8	0.9	1.3
40%	1.0	0.9	0.7	0.3	-0.3	-0.5	0.7	0.8	0.9	0.7	0.9	0.9
50%	1.0	1.0	0.8	0.5	0.3	0.0	0.8	0.7	0.9	0.7	1.0	0.9
60%	0.9	0.9	0.7	0.6	0.8	-0.2	0.8	0.9	0.9	0.6	0.9	0.9
70%	1.0	1.0	0.7	0.7	0.7	0.3	0.8	1.0	0.9	0.5	0.9	1.0
80%	1.0	1.0	0.7	0.7	0.7	0.6	0.9	0.9	0.8	0.5	0.8	1.0
90%	1.0	1.0	1.0	0.8	0.9	0.9	1.0	1.0	0.9	0.7	0.8	1.0
Long Term												
Full Simulation Period[a]	0.9	0.6	0.7	0.6	0.6	0.3	0.7	0.6	0.6	0.6	0.8	1.2
Water Year Types[b]												
Wet (31%)	0.7	0.0	0.7	0.7	0.6	0.1	0.6	-0.4	-0.3	0.4	0.9	1.8
Above Normal (25%)	0.9	0.8	0.7	0.6	1.0	0.4	0.1	0.4	0.7	1.1	1.0	1.4
Below Normal (6%)	0.8	1.3	1.1	0.5	-0.4	-0.1	0.7	0.4	0.9	0.4	0.7	1.0
Dry (13%)	1.0	0.6	0.6	0.6	0.6	0.2	0.8	1.1	0.9	0.6	0.7	0.8
Critical (25%)	1.0	1.0	0.8	0.7	0.8	0.7	0.9	1.1	0.9	0.6	0.9	1.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-29-1-14. Sacramento River at Freeport, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5.3	7.4	13.3	13.0	14.7	13.6	10.0	6.1	5.7	6.5	5.9	6.8
20%	5.1	6.3	6.1	11.9	13.9	12.1	6.2	5.4	5.5	6.4	5.7	6.3
30%	5.0	5.5	6.0	8.9	9.5	9.9	5.5	5.2	5.4	6.3	5.7	5.6
40%	5.0	5.2	5.7	6.6	7.4	7.5	5.1	5.1	5.3	6.3	5.6	5.2
50%	5.0	5.1	5.6	6.4	6.3	6.9	5.0	4.9	5.3	6.1	5.5	5.2
60%	5.0	5.0	5.4	5.9	5.4	6.2	5.0	4.9	5.2	6.0	5.5	5.1
70%	4.9	5.0	5.2	5.5	5.1	5.4	4.9	4.9	5.2	5.9	5.4	5.1
80%	4.8	4.9	5.1	5.4	5.1	4.9	4.8	4.9	5.2	5.6	5.3	5.1
90%	4.8	4.8	5.0	5.0	4.8	4.8	4.7	4.7	5.1	5.5	5.2	4.9
Long Term												
Full Simulation Period[a]	5.0	5.8	7.1	7.9	8.3	8.2	6.3	5.4	5.4	6.1	5.5	5.6
Water Year Types[b]												
Wet (31%)	5.3	7.8	12.0	10.9	13.3	12.6	9.5	6.4	6.0	6.3	5.8	6.7
Above Normal (25%)	4.8	4.9	5.9	12.7	12.6	10.9	6.2	5.2	5.2	6.2	5.6	5.6
Below Normal (6%)	5.0	5.2	5.1	6.6	7.4	6.6	5.0	4.9	5.3	5.6	5.3	5.1
Dry (13%)	5.0	5.3	5.4	5.5	5.6	6.7	5.2	5.2	5.4	6.2	5.6	5.1
Critical (25%)	5.0	5.1	5.3	5.6	5.0	5.1	4.8	4.8	5.1	5.7	5.2	5.1

Alternative 1A,1B,1C (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5.3	6.7	12.1	11.6	13.5	12.8	8.8	5.4	5.3	5.6	5.1	4.9
20%	5.1	5.8	5.6	10.2	12.8	10.9	5.4	4.9	5.0	5.5	4.9	4.8
30%	4.9	4.9	5.4	7.9	7.8	8.6	4.9	4.6	4.9	5.4	4.9	4.7
40%	4.7	4.5	5.2	5.8	6.2	5.9	4.6	4.5	4.7	5.2	4.8	4.6
50%	4.6	4.5	5.1	5.7	5.5	5.6	4.5	4.5	4.7	5.0	4.8	4.6
60%	4.4	4.5	4.9	5.2	4.8	5.3	4.5	4.5	4.6	5.0	4.7	4.6
70%	4.4	4.4	4.7	4.8	4.7	4.8	4.5	4.4	4.6	4.8	4.7	4.6
80%	4.3	4.3	4.6	4.6	4.6	4.3	4.4	4.4	4.5	4.7	4.6	4.5
90%	4.3	4.2	4.5	4.5	4.4	4.3	4.3	4.2	4.5	4.6	4.5	4.4
Long Term												
Full Simulation Period[a]	4.7	5.2	6.5	7.0	7.5	7.4	5.7	4.8	4.8	5.1	4.8	4.7
Water Year Types[b]												
Wet (31%)	4.7	7.4	11.1	9.7	12.1	11.7	8.8	5.7	5.4	5.4	5.0	5.1
Above Normal (25%)	4.6	4.3	5.3	11.3	11.3	9.8	5.2	4.6	4.8	5.1	4.7	4.5
Below Normal (6%)	5.4	4.5	4.6	5.8	6.2	5.4	4.5	4.4	4.6	4.4	4.5	4.4
Dry (13%)	4.4	4.7	5.0	5.1	5.0	5.9	4.7	4.7	4.8	5.4	5.0	4.6
Critical (25%)	4.9	4.4	4.8	4.9	4.5	4.5	4.3	4.3	4.5	4.8	4.6	4.5

Alternative 1A,1B,1C (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.0	-0.7	-1.2	-1.4	-1.1	-0.8	-1.2	-0.7	-0.4	-1.0	-0.8	-1.9
20%	0.0	-0.5	-0.6	-1.6	-1.1	-1.2	-0.8	-0.5	-0.5	-0.9	-0.8	-1.5
30%	-0.1	-0.5	-0.5	-1.0	-1.8	-1.3	-0.6	-0.6	-0.5	-0.9	-0.8	-1.0
40%	-0.3	-0.7	-0.4	-0.8	-1.2	-1.6	-0.4	-0.6	-0.6	-1.1	-0.8	-0.6
50%	-0.5	-0.6	-0.5	-0.7	-0.7	-1.3	-0.5	-0.4	-0.6	-1.1	-0.8	-0.6
60%	-0.6	-0.5	-0.5	-0.6	-0.6	-0.9	-0.5	-0.5	-0.6	-1.0	-0.8	-0.6
70%	-0.5	-0.6	-0.5	-0.7	-0.5	-0.5	-0.4	-0.5	-0.6	-1.1	-0.7	-0.6
80%	-0.5	-0.6	-0.5	-0.8	-0.5	-0.5	-0.5	-0.5	-0.7	-0.9	-0.7	-0.6
90%	-0.6	-0.6	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.6	-0.9	-0.7	-0.6
Long Term												
Full Simulation Period[a]	-0.3	-0.6	-0.6	-0.9	-0.8	-0.9	-0.6	-0.5	-0.6	-0.9	-0.7	-0.9
Water Year Types[b]												
Wet (31%)	-0.6	-0.4	-0.9	-1.2	-1.2	-0.9	-0.7	-0.7	-0.6	-1.0	-0.8	-1.7
Above Normal (25%)	-0.2	-0.6	-0.5	-1.4	-1.3	-1.2	-1.0	-0.6	-0.4	-1.1	-0.9	-1.1
Below Normal (6%)	0.3	-0.7	-0.5	-0.8	-1.2	-1.2	-0.6	-0.5	-0.7	-1.1	-0.8	-0.7
Dry (13%)	-0.6	-0.6	-0.5	-0.5	-0.6	-0.8	-0.5	-0.4	-0.6	-0.8	-0.7	-0.5
Critical (25%)	-0.1	-0.7	-0.5	-0.7	-0.4	-0.6	-0.5	-0.4	-0.6	-0.9	-0.6	-0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-29-1-15. Sacramento River at Freeport, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5.3	7.4	13.3	13.0	14.7	13.6	10.0	6.1	5.7	6.5	5.9	6.8
20%	5.1	6.3	6.1	11.9	13.9	12.1	6.2	5.4	5.5	6.4	5.7	6.3
30%	5.0	5.5	6.0	8.9	9.5	9.9	5.5	5.2	5.4	6.3	5.7	5.6
40%	5.0	5.2	5.7	6.6	7.4	7.5	5.1	5.1	5.3	6.3	5.6	5.2
50%	5.0	5.1	5.6	6.4	6.3	6.9	5.0	4.9	5.3	6.1	5.5	5.2
60%	5.0	5.0	5.4	5.9	5.4	6.2	5.0	4.9	5.2	6.0	5.5	5.1
70%	4.9	5.0	5.2	5.5	5.1	5.4	4.9	4.9	5.2	5.9	5.4	5.1
80%	4.8	4.9	5.1	5.4	5.1	4.9	4.8	4.9	5.2	5.6	5.3	5.1
90%	4.8	4.8	5.0	5.0	4.8	4.8	4.7	4.7	5.1	5.5	5.2	4.9
Long Term												
Full Simulation Period[a]	5.0	5.8	7.1	7.9	8.3	8.2	6.3	5.4	5.4	6.1	5.5	5.6
Water Year Types[b]												
Wet (31%)	5.3	7.8	12.0	10.9	13.3	12.6	9.5	6.4	6.0	6.3	5.8	6.7
Above Normal (25%)	4.8	4.9	5.9	12.7	12.6	10.9	6.2	5.2	5.2	6.2	5.6	5.6
Below Normal (6%)	5.0	5.2	5.1	6.6	7.4	6.6	5.0	4.9	5.3	5.6	5.3	5.1
Dry (13%)	5.0	5.3	5.4	5.5	5.6	6.7	5.2	5.2	5.4	6.2	5.6	5.1
Critical (25%)	5.0	5.1	5.3	5.6	5.0	5.1	4.8	4.8	5.1	5.7	5.2	5.1

Alternative 2A,2B,2C (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.8	6.6	11.8	11.6	13.4	12.7	8.7	5.5	5.4	5.7	5.0	6.1
20%	4.7	5.9	5.4	10.3	12.8	10.9	5.5	4.9	5.0	5.4	4.9	5.5
30%	4.6	4.7	5.4	7.8	7.7	8.2	4.8	4.6	4.9	5.4	4.9	4.8
40%	4.5	4.5	5.1	5.8	6.1	5.9	4.5	4.5	4.8	5.3	4.8	4.8
50%	4.5	4.5	5.1	5.5	5.5	5.6	4.5	4.5	4.7	5.2	4.8	4.6
60%	4.4	4.4	5.0	5.2	4.8	5.3	4.4	4.4	4.7	5.1	4.7	4.6
70%	4.4	4.4	4.7	4.9	4.6	4.7	4.3	4.4	4.6	4.9	4.7	4.6
80%	4.3	4.3	4.5	4.8	4.5	4.3	4.3	4.4	4.6	4.8	4.6	4.5
90%	4.2	4.2	4.5	4.5	4.3	4.3	4.2	4.2	4.4	4.6	4.5	4.3
Long Term												
Full Simulation Period[a]	4.5	5.1	6.4	6.9	7.4	7.3	5.6	4.8	4.9	5.2	4.8	4.9
Water Year Types[b]												
Wet (31%)	4.7	7.0	11.0	9.7	12.0	11.6	8.7	5.7	5.5	5.4	5.0	6.0
Above Normal (25%)	4.4	4.3	5.3	11.0	11.1	9.7	5.1	4.6	4.7	5.5	4.8	4.8
Below Normal (6%)	4.4	4.4	4.5	5.8	6.1	5.5	4.5	4.3	4.7	4.5	4.5	4.3
Dry (13%)	4.4	4.7	4.9	4.9	5.0	5.6	4.7	4.8	4.9	5.3	4.8	4.5
Critical (25%)	4.5	4.5	4.8	5.0	4.4	4.5	4.3	4.3	4.5	4.9	4.6	4.5

Alternative 2A,2B,2C (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.5	-0.8	-1.5	-1.5	-1.2	-1.0	-1.3	-0.6	-0.2	-0.8	-0.8	-0.7
20%	-0.4	-0.4	-0.7	-1.6	-1.1	-1.2	-0.7	-0.5	-0.4	-1.0	-0.8	-0.7
30%	-0.4	-0.8	-0.6	-1.1	-1.9	-1.7	-0.7	-0.6	-0.5	-0.9	-0.8	-0.8
40%	-0.5	-0.7	-0.5	-0.8	-1.2	-1.6	-0.6	-0.5	-0.5	-1.0	-0.8	-0.5
50%	-0.5	-0.6	-0.6	-0.9	-0.8	-1.3	-0.6	-0.5	-0.5	-0.9	-0.8	-0.6
60%	-0.6	-0.6	-0.4	-0.7	-0.6	-0.9	-0.6	-0.5	-0.6	-0.9	-0.7	-0.6
70%	-0.5	-0.6	-0.5	-0.6	-0.5	-0.7	-0.6	-0.5	-0.6	-1.0	-0.7	-0.6
80%	-0.5	-0.6	-0.6	-0.6	-0.6	-0.5	-0.5	-0.5	-0.6	-0.9	-0.7	-0.5
90%	-0.6	-0.6	-0.5	-0.4	-0.5	-0.5	-0.5	-0.5	-0.6	-0.9	-0.7	-0.6
Long Term												
Full Simulation Period[a]	-0.5	-0.6	-0.7	-0.9	-0.9	-1.0	-0.7	-0.5	-0.6	-0.9	-0.7	-0.6
Water Year Types[b]												
Wet (31%)	-0.6	-0.8	-1.0	-1.2	-1.2	-1.1	-0.8	-0.8	-0.5	-0.9	-0.8	-0.7
Above Normal (25%)	-0.3	-0.6	-0.6	-1.7	-1.5	-1.2	-1.1	-0.6	-0.6	-0.8	-0.8	-0.8
Below Normal (6%)	-0.6	-0.8	-0.6	-0.8	-1.2	-1.1	-0.6	-0.6	-0.5	-1.1	-0.8	-0.7
Dry (13%)	-0.6	-0.6	-0.6	-0.7	-0.7	-1.1	-0.5	-0.4	-0.5	-0.9	-0.8	-0.6
Critical (25%)	-0.5	-0.6	-0.5	-0.6	-0.5	-0.6	-0.5	-0.4	-0.6	-0.9	-0.6	-0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-29-1-16. Sacramento River at Freeport, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5.3	7.4	13.3	13.0	14.7	13.6	10.0	6.1	5.7	6.5	5.9	6.8
20%	5.1	6.3	6.1	11.9	13.9	12.1	6.2	5.4	5.5	6.4	5.7	6.3
30%	5.0	5.5	6.0	8.9	9.5	9.9	5.5	5.2	5.4	6.3	5.7	5.6
40%	5.0	5.2	5.7	6.6	7.4	7.5	5.1	5.1	5.3	6.3	5.6	5.2
50%	5.0	5.1	5.6	6.4	6.3	6.9	5.0	4.9	5.3	6.1	5.5	5.2
60%	5.0	5.0	5.4	5.9	5.4	6.2	5.0	4.9	5.2	6.0	5.5	5.1
70%	4.9	5.0	5.2	5.5	5.1	5.4	4.9	4.9	5.2	5.9	5.4	5.1
80%	4.8	4.9	5.1	5.4	5.1	4.9	4.8	4.9	5.2	5.6	5.3	5.1
90%	4.8	4.8	5.0	5.0	4.8	4.8	4.7	4.7	5.1	5.5	5.2	4.9
Long Term												
Full Simulation Period[a]	5.0	5.8	7.1	7.9	8.3	8.2	6.3	5.4	5.4	6.1	5.5	5.6
Water Year Types[b]												
Wet (31%)	5.3	7.8	12.0	10.9	13.3	12.6	9.5	6.4	6.0	6.3	5.8	6.7
Above Normal (25%)	4.8	4.9	5.9	12.7	12.6	10.9	6.2	5.2	5.2	6.2	5.6	5.6
Below Normal (6%)	5.0	5.2	5.1	6.6	7.4	6.6	5.0	4.9	5.3	5.6	5.3	5.1
Dry (13%)	5.0	5.3	5.4	5.5	5.6	6.7	5.2	5.2	5.4	6.2	5.6	5.1
Critical (25%)	5.0	5.1	5.3	5.6	5.0	5.1	4.8	4.8	5.1	5.7	5.2	5.1

Alternative 3 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5.4	6.8	12.5	11.5	13.7	12.5	8.7	5.5	5.3	5.6	5.0	4.9
20%	5.1	5.8	5.5	10.5	12.6	10.6	5.4	4.9	4.9	5.4	4.9	4.7
30%	4.9	4.5	5.4	7.7	8.0	8.4	4.8	4.6	4.8	5.3	4.9	4.7
40%	4.7	4.5	5.1	5.8	6.1	5.9	4.6	4.5	4.7	5.2	4.8	4.6
50%	4.5	4.5	5.1	5.5	5.4	5.6	4.5	4.5	4.6	5.1	4.8	4.6
60%	4.4	4.4	4.9	5.1	4.7	5.2	4.4	4.5	4.6	5.0	4.7	4.5
70%	4.4	4.4	4.7	4.8	4.6	4.8	4.4	4.4	4.6	4.8	4.7	4.5
80%	4.4	4.3	4.6	4.7	4.6	4.3	4.4	4.4	4.5	4.7	4.6	4.4
90%	4.3	4.2	4.5	4.5	4.3	4.3	4.2	4.2	4.5	4.6	4.5	4.4
Long Term												
Full Simulation Period[a]	4.7	5.2	6.5	6.9	7.4	7.2	5.6	4.8	4.8	5.1	4.8	4.6
Water Year Types[b]												
Wet (31%)	4.7	7.2	11.3	9.5	12.0	11.3	8.8	5.7	5.4	5.3	5.0	5.0
Above Normal (25%)	4.8	4.3	5.2	11.3	11.4	9.3	5.2	4.6	4.7	5.1	4.7	4.5
Below Normal (6%)	5.0	4.4	4.6	5.8	6.1	5.4	4.4	4.3	4.5	4.4	4.5	4.4
Dry (13%)	4.4	4.7	5.0	5.0	4.9	5.9	4.7	4.7	4.7	5.4	4.9	4.5
Critical (25%)	5.0	4.4	4.7	4.9	4.5	4.5	4.3	4.3	4.5	4.8	4.6	4.5

Alternative 3 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.1	-0.5	-0.8	-1.5	-1.0	-1.2	-1.2	-0.6	-0.4	-0.9	-0.9	-2.0
20%	0.0	-0.5	-0.6	-1.3	-1.3	-1.5	-0.9	-0.5	-0.6	-1.0	-0.8	-1.6
30%	-0.1	-0.9	-0.5	-1.2	-1.6	-1.5	-0.6	-0.6	-0.5	-1.0	-0.8	-1.0
40%	-0.4	-0.7	-0.5	-0.8	-1.3	-1.5	-0.5	-0.6	-0.6	-1.1	-0.8	-0.6
50%	-0.5	-0.7	-0.5	-0.9	-0.9	-1.3	-0.6	-0.5	-0.6	-1.0	-0.8	-0.6
60%	-0.6	-0.6	-0.5	-0.7	-0.6	-1.0	-0.5	-0.5	-0.6	-1.0	-0.8	-0.6
70%	-0.5	-0.6	-0.5	-0.7	-0.5	-0.5	-0.5	-0.5	-0.6	-1.1	-0.7	-0.6
80%	-0.5	-0.6	-0.5	-0.7	-0.5	-0.5	-0.5	-0.5	-0.7	-0.9	-0.7	-0.6
90%	-0.6	-0.5	-0.6	-0.4	-0.5	-0.5	-0.5	-0.5	-0.6	-0.9	-0.7	-0.6
Long Term												
Full Simulation Period[a]	-0.3	-0.6	-0.6	-0.9	-0.9	-1.0	-0.6	-0.5	-0.6	-0.9	-0.8	-0.9
Water Year Types[b]												
Wet (31%)	-0.6	-0.6	-0.8	-1.4	-1.3	-1.3	-0.7	-0.7	-0.6	-1.0	-0.8	-1.7
Above Normal (25%)	0.0	-0.6	-0.6	-1.4	-1.2	-1.6	-1.0	-0.7	-0.5	-1.1	-0.9	-1.2
Below Normal (6%)	0.0	-0.8	-0.6	-0.8	-1.3	-1.2	-0.6	-0.5	-0.8	-1.2	-0.8	-0.6
Dry (13%)	-0.6	-0.6	-0.5	-0.5	-0.7	-0.8	-0.5	-0.4	-0.6	-0.8	-0.8	-0.6
Critical (25%)	0.0	-0.7	-0.5	-0.8	-0.5	-0.6	-0.5	-0.4	-0.6	-0.9	-0.6	-0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-29-1-17. Sacramento River at Freeport, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5.3	7.4	13.3	13.0	14.7	13.6	10.0	6.1	5.7	6.5	5.9	6.8
20%	5.1	6.3	6.1	11.9	13.9	12.1	6.2	5.4	5.5	6.4	5.7	6.3
30%	5.0	5.5	6.0	8.9	9.5	9.9	5.5	5.2	5.4	6.3	5.7	5.6
40%	5.0	5.2	5.7	6.6	7.4	7.5	5.1	5.1	5.3	6.3	5.6	5.2
50%	5.0	5.1	5.6	6.4	6.3	6.9	5.0	4.9	5.3	6.1	5.5	5.2
60%	5.0	5.0	5.4	5.9	5.4	6.2	5.0	4.9	5.2	6.0	5.5	5.1
70%	4.9	5.0	5.2	5.5	5.1	5.4	4.9	4.9	5.2	5.9	5.4	5.1
80%	4.8	4.9	5.1	5.4	5.1	4.9	4.8	4.9	5.2	5.6	5.3	5.1
90%	4.8	4.8	5.0	5.0	4.8	4.8	4.7	4.7	5.1	5.5	5.2	4.9
Long Term												
Full Simulation Period[a]	5.0	5.8	7.1	7.9	8.3	8.2	6.3	5.4	5.4	6.1	5.5	5.6
Water Year Types[b]												
Wet (31%)	5.3	7.8	12.0	10.9	13.3	12.6	9.5	6.4	6.0	6.3	5.8	6.7
Above Normal (25%)	4.8	4.9	5.9	12.7	12.6	10.9	6.2	5.2	5.2	6.2	5.6	5.6
Below Normal (6%)	5.0	5.2	5.1	6.6	7.4	6.6	5.0	4.9	5.3	5.6	5.3	5.1
Dry (13%)	5.0	5.3	5.4	5.5	5.6	6.7	5.2	5.2	5.4	6.2	5.6	5.1
Critical (25%)	5.0	5.1	5.3	5.6	5.0	5.1	4.8	4.8	5.1	5.7	5.2	5.1

Alternative 4 H1 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.8	6.8	12.1	11.4	13.5	12.2	8.6	5.5	5.3	5.8	5.1	4.9
20%	4.7	5.8	5.6	10.2	12.3	10.4	5.5	4.9	5.0	5.6	5.0	4.9
30%	4.6	4.5	5.4	7.6	7.8	8.6	4.8	4.6	4.9	5.4	4.9	4.7
40%	4.6	4.5	5.2	5.6	6.1	5.9	4.5	4.5	4.7	5.3	4.9	4.6
50%	4.5	4.5	5.1	5.5	5.4	5.6	4.5	4.5	4.7	5.2	4.8	4.6
60%	4.4	4.4	5.0	5.4	4.8	5.2	4.4	4.4	4.7	5.0	4.7	4.6
70%	4.4	4.4	4.7	5.2	4.6	4.7	4.4	4.4	4.6	4.9	4.7	4.6
80%	4.3	4.2	4.5	5.0	4.5	4.3	4.3	4.4	4.5	4.8	4.6	4.5
90%	4.3	4.2	4.4	4.6	4.3	4.3	4.2	4.2	4.5	4.6	4.5	4.4
Long Term												
Full Simulation Period[a]	4.5	5.1	6.4	6.9	7.4	7.2	5.5	4.8	4.8	5.2	4.8	4.7
Water Year Types[b]												
Wet (31%)	4.7	7.1	11.0	9.4	11.9	11.3	8.5	5.6	5.4	5.5	5.0	5.0
Above Normal (25%)	4.4	4.3	5.2	11.2	11.3	9.4	5.1	4.6	4.6	5.5	4.8	4.5
Below Normal (6%)	4.6	4.4	4.5	5.8	6.1	5.5	4.5	4.3	4.7	4.5	4.5	4.4
Dry (13%)	4.4	4.7	4.9	4.9	4.9	5.8	4.7	4.7	4.9	5.4	4.9	4.6
Critical (25%)	4.5	4.4	4.8	5.1	4.5	4.5	4.3	4.3	4.5	4.8	4.6	4.5

Alternative 4 H1 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.5	-0.6	-1.1	-1.6	-1.2	-1.5	-1.4	-0.6	-0.4	-0.7	-0.7	-1.9
20%	-0.4	-0.5	-0.6	-1.6	-1.6	-1.7	-0.7	-0.5	-0.5	-0.8	-0.7	-1.4
30%	-0.4	-1.0	-0.6	-1.3	-1.7	-1.3	-0.7	-0.6	-0.5	-0.9	-0.8	-0.9
40%	-0.5	-0.7	-0.5	-1.0	-1.3	-1.6	-0.6	-0.6	-0.6	-1.0	-0.7	-0.6
50%	-0.5	-0.7	-0.5	-0.9	-0.9	-1.4	-0.6	-0.5	-0.6	-0.9	-0.7	-0.6
60%	-0.6	-0.6	-0.4	-0.5	-0.6	-1.0	-0.6	-0.5	-0.5	-1.0	-0.7	-0.6
70%	-0.5	-0.6	-0.5	-0.4	-0.5	-0.7	-0.6	-0.5	-0.6	-1.0	-0.7	-0.6
80%	-0.5	-0.6	-0.6	-0.3	-0.6	-0.5	-0.5	-0.5	-0.6	-0.9	-0.7	-0.6
90%	-0.6	-0.6	-0.6	-0.4	-0.5	-0.5	-0.5	-0.5	-0.6	-0.9	-0.7	-0.5
Long Term												
Full Simulation Period[a]	-0.5	-0.7	-0.6	-0.9	-0.9	-1.0	-0.7	-0.6	-0.6	-0.9	-0.7	-0.9
Water Year Types[b]												
Wet (31%)	-0.6	-0.7	-1.0	-1.5	-1.4	-1.3	-1.0	-0.8	-0.6	-0.8	-0.8	-1.7
Above Normal (25%)	-0.4	-0.6	-0.6	-1.5	-1.3	-1.5	-1.1	-0.6	-0.6	-0.7	-0.8	-1.1
Below Normal (6%)	-0.4	-0.8	-0.6	-0.8	-1.3	-1.2	-0.6	-0.6	-0.6	-1.1	-0.8	-0.6
Dry (13%)	-0.6	-0.6	-0.5	-0.6	-0.7	-0.9	-0.5	-0.4	-0.5	-0.8	-0.7	-0.5
Critical (25%)	-0.5	-0.7	-0.5	-0.5	-0.5	-0.6	-0.5	-0.5	-0.6	-0.9	-0.6	-0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-29-1-18. Sacramento River at Freeport, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5.3	7.4	13.3	13.0	14.7	13.6	10.0	6.1	5.7	6.5	5.9	6.8
20%	5.1	6.3	6.1	11.9	13.9	12.1	6.2	5.4	5.5	6.4	5.7	6.3
30%	5.0	5.5	6.0	8.9	9.5	9.9	5.5	5.2	5.4	6.3	5.7	5.6
40%	5.0	5.2	5.7	6.6	7.4	7.5	5.1	5.1	5.3	6.3	5.6	5.2
50%	5.0	5.1	5.6	6.4	6.3	6.9	5.0	4.9	5.3	6.1	5.5	5.2
60%	5.0	5.0	5.4	5.9	5.4	6.2	5.0	4.9	5.2	6.0	5.5	5.1
70%	4.9	5.0	5.2	5.5	5.1	5.4	4.9	4.9	5.2	5.9	5.4	5.1
80%	4.8	4.9	5.1	5.4	5.1	4.9	4.8	4.9	5.2	5.6	5.3	5.1
90%	4.8	4.8	5.0	5.0	4.8	4.8	4.7	4.7	5.1	5.5	5.2	4.9
Long Term												
Full Simulation Period[a]	5.0	5.8	7.1	7.9	8.3	8.2	6.3	5.4	5.4	6.1	5.5	5.6
Water Year Types[b]												
Wet (31%)	5.3	7.8	12.0	10.9	13.3	12.6	9.5	6.4	6.0	6.3	5.8	6.7
Above Normal (25%)	4.8	4.9	5.9	12.7	12.6	10.9	6.2	5.2	5.2	6.2	5.6	5.6
Below Normal (6%)	5.0	5.2	5.1	6.6	7.4	6.6	5.0	4.9	5.3	5.6	5.3	5.1
Dry (13%)	5.0	5.3	5.4	5.5	5.6	6.7	5.2	5.2	5.4	6.2	5.6	5.1
Critical (25%)	5.0	5.1	5.3	5.6	5.0	5.1	4.8	4.8	5.1	5.7	5.2	5.1

Alternative 4 H2 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.9	6.9	12.3	11.4	13.6	12.2	8.8	5.5	5.1	5.4	5.0	4.9
20%	4.8	5.9	5.7	10.2	12.3	10.4	5.8	5.0	4.8	5.3	4.9	4.8
30%	4.8	4.5	5.4	7.6	7.9	8.8	5.6	4.8	4.8	5.1	4.9	4.6
40%	4.5	4.5	5.3	5.6	6.1	5.9	5.1	4.7	4.7	5.0	4.9	4.6
50%	4.4	4.5	5.0	5.5	5.4	5.7	4.5	4.6	4.6	5.0	4.8	4.6
60%	4.4	4.4	4.7	5.1	4.7	5.2	4.5	4.4	4.5	4.9	4.8	4.5
70%	4.4	4.4	4.6	5.0	4.6	4.7	4.4	4.4	4.5	4.8	4.8	4.5
80%	4.3	4.2	4.4	4.9	4.5	4.4	4.3	4.4	4.5	4.7	4.6	4.4
90%	4.3	4.2	4.4	4.7	4.3	4.3	4.2	4.2	4.4	4.6	4.5	4.4
Long Term												
Full Simulation Period[a]	4.5	5.2	6.4	6.9	7.4	7.2	5.8	4.8	4.8	5.0	4.8	4.7
Water Year Types[b]												
Wet (31%)	4.7	7.2	11.1	9.4	11.8	11.3	9.0	5.7	5.2	5.2	5.0	5.0
Above Normal (25%)	4.4	4.3	5.3	11.4	11.4	9.5	6.0	4.8	4.6	4.8	4.8	4.5
Below Normal (6%)	4.4	4.4	4.3	5.8	6.2	5.7	4.5	4.4	4.8	4.6	4.5	4.4
Dry (13%)	4.4	4.7	4.9	4.9	4.9	5.9	4.6	4.7	4.7	5.2	4.9	4.5
Critical (25%)	4.7	4.4	4.7	5.0	4.5	4.5	4.3	4.3	4.5	4.8	4.6	4.5

Alternative 4 H2 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.3	-0.4	-0.9	-1.6	-1.1	-1.4	-1.2	-0.6	-0.6	-1.1	-0.8	-1.9
20%	-0.3	-0.4	-0.5	-1.6	-1.6	-1.7	-0.4	-0.4	-0.6	-1.1	-0.8	-1.5
30%	-0.3	-0.9	-0.5	-1.4	-1.6	-1.1	0.1	-0.4	-0.6	-1.2	-0.8	-1.0
40%	-0.5	-0.7	-0.4	-1.0	-1.2	-1.6	0.0	-0.4	-0.6	-1.2	-0.8	-0.6
50%	-0.6	-0.7	-0.6	-1.0	-0.9	-1.2	-0.5	-0.4	-0.6	-1.1	-0.7	-0.6
60%	-0.6	-0.6	-0.7	-0.7	-0.6	-1.0	-0.5	-0.5	-0.7	-1.1	-0.6	-0.6
70%	-0.5	-0.6	-0.5	-0.5	-0.5	-0.7	-0.5	-0.5	-0.7	-1.1	-0.6	-0.6
80%	-0.5	-0.6	-0.7	-0.5	-0.6	-0.5	-0.6	-0.5	-0.7	-0.9	-0.7	-0.6
90%	-0.6	-0.6	-0.7	-0.3	-0.5	-0.5	-0.5	-0.5	-0.7	-0.9	-0.7	-0.6
Long Term												
Full Simulation Period[a]	-0.5	-0.6	-0.7	-0.9	-0.9	-1.0	-0.5	-0.5	-0.7	-1.1	-0.7	-0.9
Water Year Types[b]												
Wet (31%)	-0.6	-0.6	-0.9	-1.5	-1.5	-1.4	-0.5	-0.7	-0.8	-1.1	-0.8	-1.7
Above Normal (25%)	-0.3	-0.6	-0.5	-1.3	-1.2	-1.5	-0.3	-0.4	-0.7	-1.4	-0.8	-1.1
Below Normal (6%)	-0.7	-0.8	-0.8	-0.8	-1.1	-0.9	-0.6	-0.5	-0.5	-1.0	-0.8	-0.6
Dry (13%)	-0.6	-0.6	-0.5	-0.7	-0.7	-0.8	-0.6	-0.5	-0.6	-1.0	-0.8	-0.6
Critical (25%)	-0.3	-0.7	-0.6	-0.6	-0.5	-0.6	-0.6	-0.5	-0.6	-0.9	-0.6	-0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-29-1-19. Sacramento River at Freeport, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5.3	7.4	13.3	13.0	14.7	13.6	10.0	6.1	5.7	6.5	5.9	6.8
20%	5.1	6.3	6.1	11.9	13.9	12.1	6.2	5.4	5.5	6.4	5.7	6.3
30%	5.0	5.5	6.0	8.9	9.5	9.9	5.5	5.2	5.4	6.3	5.7	5.6
40%	5.0	5.2	5.7	6.6	7.4	7.5	5.1	5.1	5.3	6.3	5.6	5.2
50%	5.0	5.1	5.6	6.4	6.3	6.9	5.0	4.9	5.3	6.1	5.5	5.2
60%	5.0	5.0	5.4	5.9	5.4	6.2	5.0	4.9	5.2	6.0	5.5	5.1
70%	4.9	5.0	5.2	5.5	5.1	5.4	4.9	4.9	5.2	5.9	5.4	5.1
80%	4.8	4.9	5.1	5.4	5.1	4.9	4.8	4.9	5.2	5.6	5.3	5.1
90%	4.8	4.8	5.0	5.0	4.8	4.8	4.7	4.7	5.1	5.5	5.2	4.9
Long Term												
Full Simulation Period[a]	5.0	5.8	7.1	7.9	8.3	8.2	6.3	5.4	5.4	6.1	5.5	5.6
Water Year Types[b]												
Wet (31%)	5.3	7.8	12.0	10.9	13.3	12.6	9.5	6.4	6.0	6.3	5.8	6.7
Above Normal (25%)	4.8	4.9	5.9	12.7	12.6	10.9	6.2	5.2	5.2	6.2	5.6	5.6
Below Normal (6%)	5.0	5.2	5.1	6.6	7.4	6.6	5.0	4.9	5.3	5.6	5.3	5.1
Dry (13%)	5.0	5.3	5.4	5.5	5.6	6.7	5.2	5.2	5.4	6.2	5.6	5.1
Critical (25%)	5.0	5.1	5.3	5.6	5.0	5.1	4.8	4.8	5.1	5.7	5.2	5.1

Alternative 4 H3 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.9	6.8	11.9	11.4	13.3	12.2	8.6	5.5	5.3	5.8	5.0	6.0
20%	4.7	5.8	5.4	10.2	12.3	10.4	5.5	4.9	5.0	5.6	5.0	5.7
30%	4.6	4.7	5.4	7.6	7.8	8.1	4.8	4.6	4.9	5.4	4.9	4.9
40%	4.6	4.5	5.3	5.6	6.1	5.9	4.5	4.5	4.9	5.3	4.8	4.8
50%	4.4	4.5	5.1	5.5	5.4	5.6	4.5	4.5	4.7	5.1	4.8	4.6
60%	4.4	4.4	5.0	5.5	4.8	5.2	4.4	4.4	4.7	5.0	4.7	4.6
70%	4.3	4.4	4.7	5.0	4.6	4.7	4.3	4.4	4.6	4.9	4.6	4.6
80%	4.3	4.2	4.5	4.8	4.5	4.3	4.3	4.4	4.5	4.8	4.6	4.5
90%	4.3	4.2	4.4	4.5	4.3	4.3	4.2	4.2	4.4	4.6	4.5	4.3
Long Term												
Full Simulation Period[a]	4.5	5.1	6.4	6.9	7.3	7.1	5.6	4.8	4.8	5.2	4.8	4.9
Water Year Types[b]												
Wet (31%)	4.6	7.0	10.9	9.4	11.8	11.1	8.6	5.6	5.4	5.5	5.0	5.9
Above Normal (25%)	4.5	4.3	5.3	11.0	11.0	9.4	5.1	4.6	4.6	5.5	4.8	4.9
Below Normal (6%)	4.4	4.4	4.3	5.8	6.1	5.5	4.5	4.3	4.9	4.5	4.5	4.3
Dry (13%)	4.4	4.7	4.9	4.9	4.9	5.6	4.6	4.8	4.9	5.4	4.8	4.6
Critical (25%)	4.5	4.5	4.8	5.0	4.4	4.5	4.3	4.3	4.5	4.8	4.6	4.5

Alternative 4 H3 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.4	-0.6	-1.3	-1.7	-1.4	-1.5	-1.4	-0.6	-0.4	-0.7	-0.8	-0.8
20%	-0.4	-0.4	-0.7	-1.7	-1.6	-1.7	-0.7	-0.5	-0.5	-0.8	-0.7	-0.6
30%	-0.5	-0.8	-0.6	-1.4	-1.7	-1.7	-0.7	-0.6	-0.5	-0.9	-0.8	-0.8
40%	-0.5	-0.7	-0.4	-1.0	-1.3	-1.6	-0.6	-0.5	-0.4	-1.0	-0.8	-0.4
50%	-0.6	-0.6	-0.5	-0.9	-0.9	-1.4	-0.6	-0.5	-0.6	-1.0	-0.8	-0.6
60%	-0.6	-0.6	-0.4	-0.4	-0.6	-1.0	-0.6	-0.5	-0.5	-1.0	-0.7	-0.6
70%	-0.6	-0.6	-0.5	-0.6	-0.5	-0.7	-0.6	-0.5	-0.6	-1.0	-0.7	-0.6
80%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.5	-0.5	-0.6	-0.9	-0.7	-0.5
90%	-0.6	-0.6	-0.6	-0.5	-0.5	-0.5	-0.5	-0.5	-0.6	-0.9	-0.7	-0.6
Long Term												
Full Simulation Period[a]	-0.5	-0.6	-0.7	-1.0	-1.0	-1.1	-0.7	-0.6	-0.6	-0.9	-0.7	-0.6
Water Year Types[b]												
Wet (31%)	-0.7	-0.7	-1.1	-1.5	-1.5	-1.5	-0.9	-0.8	-0.6	-0.8	-0.8	-0.8
Above Normal (25%)	-0.2	-0.6	-0.5	-1.6	-1.6	-1.6	-1.1	-0.6	-0.6	-0.7	-0.8	-0.8
Below Normal (6%)	-0.6	-0.8	-0.8	-0.8	-1.3	-1.2	-0.6	-0.6	-0.4	-1.0	-0.8	-0.7
Dry (13%)	-0.6	-0.6	-0.6	-0.7	-0.7	-1.1	-0.5	-0.4	-0.5	-0.9	-0.8	-0.5
Critical (25%)	-0.5	-0.6	-0.5	-0.6	-0.5	-0.6	-0.6	-0.4	-0.6	-0.9	-0.6	-0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-29-1-20. Sacramento River at Freeport, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5.3	7.4	13.3	13.0	14.7	13.6	10.0	6.1	5.7	6.5	5.9	6.8
20%	5.1	6.3	6.1	11.9	13.9	12.1	6.2	5.4	5.5	6.4	5.7	6.3
30%	5.0	5.5	6.0	8.9	9.5	9.9	5.5	5.2	5.4	6.3	5.7	5.6
40%	5.0	5.2	5.7	6.6	7.4	7.5	5.1	5.1	5.3	6.3	5.6	5.2
50%	5.0	5.1	5.6	6.4	6.3	6.9	5.0	4.9	5.3	6.1	5.5	5.2
60%	5.0	5.0	5.4	5.9	5.4	6.2	5.0	4.9	5.2	6.0	5.5	5.1
70%	4.9	5.0	5.2	5.5	5.1	5.4	4.9	4.9	5.2	5.9	5.4	5.1
80%	4.8	4.9	5.1	5.4	5.1	4.9	4.8	4.9	5.2	5.6	5.3	5.1
90%	4.8	4.8	5.0	5.0	4.8	4.8	4.7	4.7	5.1	5.5	5.2	4.9
Long Term												
Full Simulation Period[a]	5.0	5.8	7.1	7.9	8.3	8.2	6.3	5.4	5.4	6.1	5.5	5.6
Water Year Types[b]												
Wet (31%)	5.3	7.8	12.0	10.9	13.3	12.6	9.5	6.4	6.0	6.3	5.8	6.7
Above Normal (25%)	4.8	4.9	5.9	12.7	12.6	10.9	6.2	5.2	5.2	6.2	5.6	5.6
Below Normal (6%)	5.0	5.2	5.1	6.6	7.4	6.6	5.0	4.9	5.3	5.6	5.3	5.1
Dry (13%)	5.0	5.3	5.4	5.5	5.6	6.7	5.2	5.2	5.4	6.2	5.6	5.1
Critical (25%)	5.0	5.1	5.3	5.6	5.0	5.1	4.8	4.8	5.1	5.7	5.2	5.1

Alternative 4 H4 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.9	6.7	12.1	11.4	13.3	12.2	8.8	5.5	5.1	5.4	5.0	6.0
20%	4.7	5.8	5.4	10.2	12.3	10.4	5.8	5.0	4.8	5.2	4.9	5.8
30%	4.7	4.7	5.4	7.6	7.9	8.6	5.6	4.8	4.8	5.1	4.9	4.9
40%	4.6	4.5	5.2	5.6	6.1	5.9	5.1	4.7	4.7	5.0	4.9	4.6
50%	4.5	4.5	5.0	5.4	5.4	5.6	4.5	4.6	4.6	4.9	4.8	4.6
60%	4.4	4.4	4.7	5.1	4.7	5.2	4.5	4.4	4.6	4.9	4.8	4.6
70%	4.3	4.4	4.6	4.8	4.6	4.7	4.4	4.4	4.5	4.8	4.8	4.6
80%	4.3	4.3	4.5	4.5	4.5	4.3	4.3	4.4	4.5	4.7	4.6	4.6
90%	4.2	4.2	4.4	4.4	4.3	4.3	4.2	4.2	4.4	4.6	4.5	4.4
Long Term												
Full Simulation Period[a]	4.5	5.1	6.4	6.8	7.3	7.2	5.8	4.8	4.7	5.0	4.8	4.9
Water Year Types[b]												
Wet (31%)	4.7	7.0	11.0	9.4	11.8	11.2	9.0	5.7	5.2	5.2	5.0	5.9
Above Normal (25%)	4.5	4.3	5.3	11.3	11.1	9.4	6.0	4.8	4.6	4.8	4.8	4.9
Below Normal (6%)	4.3	4.4	4.5	5.8	6.1	5.5	4.5	4.4	4.7	4.6	4.4	4.4
Dry (13%)	4.4	4.7	4.8	4.9	4.9	5.8	4.6	4.7	4.7	5.1	4.9	4.5
Critical (25%)	4.5	4.5	4.7	4.8	4.5	4.5	4.3	4.3	4.5	4.8	4.6	4.5

Alternative 4 H4 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.4	-0.7	-1.2	-1.6	-1.4	-1.4	-1.2	-0.6	-0.6	-1.1	-0.8	-0.8
20%	-0.4	-0.4	-0.7	-1.6	-1.6	-1.7	-0.4	-0.4	-0.6	-1.2	-0.8	-0.5
30%	-0.4	-0.8	-0.6	-1.4	-1.7	-1.3	0.1	-0.4	-0.6	-1.2	-0.8	-0.7
40%	-0.5	-0.7	-0.4	-1.0	-1.2	-1.6	0.0	-0.4	-0.6	-1.3	-0.8	-0.6
50%	-0.6	-0.6	-0.6	-1.0	-0.9	-1.3	-0.5	-0.4	-0.6	-1.2	-0.7	-0.6
60%	-0.6	-0.6	-0.7	-0.7	-0.6	-1.0	-0.5	-0.5	-0.7	-1.1	-0.6	-0.5
70%	-0.6	-0.6	-0.5	-0.7	-0.5	-0.7	-0.5	-0.5	-0.7	-1.1	-0.6	-0.5
80%	-0.6	-0.6	-0.6	-0.8	-0.6	-0.5	-0.5	-0.5	-0.7	-0.9	-0.7	-0.5
90%	-0.6	-0.6	-0.6	-0.5	-0.5	-0.5	-0.5	-0.5	-0.7	-0.9	-0.7	-0.6
Long Term												
Full Simulation Period[a]	-0.5	-0.7	-0.7	-1.0	-1.0	-1.1	-0.5	-0.5	-0.7	-1.1	-0.7	-0.6
Water Year Types[b]												
Wet (31%)	-0.5	-0.8	-1.0	-1.5	-1.5	-1.4	-0.5	-0.7	-0.8	-1.1	-0.8	-0.8
Above Normal (25%)	-0.3	-0.6	-0.5	-1.4	-1.5	-1.5	-0.2	-0.4	-0.7	-1.4	-0.8	-0.7
Below Normal (6%)	-0.7	-0.8	-0.7	-0.8	-1.2	-1.2	-0.6	-0.5	-0.6	-1.0	-0.8	-0.7
Dry (13%)	-0.6	-0.6	-0.6	-0.7	-0.7	-0.9	-0.6	-0.5	-0.7	-1.1	-0.8	-0.6
Critical (25%)	-0.5	-0.6	-0.6	-0.8	-0.5	-0.6	-0.5	-0.5	-0.6	-0.9	-0.6	-0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-29-1-21. Sacramento River at Freeport, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5.3	7.4	13.3	13.0	14.7	13.6	10.0	6.1	5.7	6.5	5.9	6.8
20%	5.1	6.3	6.1	11.9	13.9	12.1	6.2	5.4	5.5	6.4	5.7	6.3
30%	5.0	5.5	6.0	8.9	9.5	9.9	5.5	5.2	5.4	6.3	5.7	5.6
40%	5.0	5.2	5.7	6.6	7.4	7.5	5.1	5.1	5.3	6.3	5.6	5.2
50%	5.0	5.1	5.6	6.4	6.3	6.9	5.0	4.9	5.3	6.1	5.5	5.2
60%	5.0	5.0	5.4	5.9	5.4	6.2	5.0	4.9	5.2	6.0	5.5	5.1
70%	4.9	5.0	5.2	5.5	5.1	5.4	4.9	4.9	5.2	5.9	5.4	5.1
80%	4.8	4.9	5.1	5.4	5.1	4.9	4.8	4.9	5.2	5.6	5.3	5.1
90%	4.8	4.8	5.0	5.0	4.8	4.8	4.7	4.7	5.1	5.5	5.2	4.9
Long Term												
Full Simulation Period[a]	5.0	5.8	7.1	7.9	8.3	8.2	6.3	5.4	5.4	6.1	5.5	5.6
Water Year Types[b]												
Wet (31%)	5.3	7.8	12.0	10.9	13.3	12.6	9.5	6.4	6.0	6.3	5.8	6.7
Above Normal (25%)	4.8	4.9	5.9	12.7	12.6	10.9	6.2	5.2	5.2	6.2	5.6	5.6
Below Normal (6%)	5.0	5.2	5.1	6.6	7.4	6.6	5.0	4.9	5.3	5.6	5.3	5.1
Dry (13%)	5.0	5.3	5.4	5.5	5.6	6.7	5.2	5.2	5.4	6.2	5.6	5.1
Critical (25%)	5.0	5.1	5.3	5.6	5.0	5.1	4.8	4.8	5.1	5.7	5.2	5.1

Alternative 5 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.8	6.9	12.6	11.9	14.0	12.9	9.1	5.5	5.2	5.8	5.2	5.9
20%	4.7	5.7	5.4	10.8	13.1	11.1	5.5	4.9	4.9	5.5	5.1	5.5
30%	4.6	4.7	5.4	7.8	8.3	8.7	4.9	4.6	4.8	5.5	5.0	4.7
40%	4.5	4.6	5.1	5.7	6.3	6.1	4.6	4.5	4.8	5.4	4.8	4.6
50%	4.4	4.5	5.1	5.6	5.4	5.8	4.5	4.5	4.7	5.3	4.8	4.6
60%	4.3	4.4	4.9	5.2	4.7	5.3	4.4	4.4	4.7	5.3	4.7	4.6
70%	4.3	4.4	4.7	4.9	4.7	4.7	4.4	4.4	4.6	5.0	4.7	4.6
80%	4.3	4.3	4.6	4.8	4.6	4.3	4.3	4.4	4.5	5.0	4.6	4.5
90%	4.2	4.2	4.5	4.5	4.3	4.3	4.2	4.2	4.4	4.7	4.5	4.3
Long Term												
Full Simulation Period[a]	4.5	5.2	6.5	7.1	7.6	7.4	5.7	4.8	4.8	5.3	4.8	4.9
Water Year Types[b]												
Wet (31%)	4.6	7.3	11.4	9.8	12.4	11.8	8.9	5.8	5.5	5.6	5.1	5.9
Above Normal (25%)	4.2	4.3	5.3	11.8	11.7	9.8	5.3	4.6	4.7	5.5	4.8	4.7
Below Normal (6%)	4.3	4.4	4.6	5.8	6.3	5.6	4.4	4.3	4.8	5.0	4.5	4.4
Dry (13%)	4.4	4.7	4.9	4.9	5.0	5.9	4.6	4.6	4.8	5.4	4.9	4.5
Critical (25%)	4.6	4.5	4.7	5.0	4.5	4.6	4.3	4.3	4.5	4.9	4.6	4.5

Alternative 5 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.5	-0.4	-0.6	-1.1	-0.7	-0.7	-0.9	-0.6	-0.5	-0.8	-0.7	-0.9
20%	-0.4	-0.5	-0.7	-1.1	-0.8	-1.0	-0.7	-0.5	-0.5	-0.9	-0.6	-0.8
30%	-0.4	-0.8	-0.6	-1.1	-1.2	-1.2	-0.6	-0.6	-0.5	-0.8	-0.7	-0.9
40%	-0.5	-0.6	-0.5	-0.9	-1.0	-1.3	-0.5	-0.6	-0.5	-0.8	-0.8	-0.6
50%	-0.7	-0.6	-0.6	-0.8	-0.8	-1.1	-0.5	-0.5	-0.5	-0.8	-0.8	-0.6
60%	-0.7	-0.6	-0.5	-0.7	-0.6	-0.9	-0.6	-0.5	-0.5	-0.7	-0.8	-0.5
70%	-0.6	-0.6	-0.5	-0.6	-0.5	-0.7	-0.5	-0.5	-0.6	-1.0	-0.7	-0.6
80%	-0.6	-0.6	-0.5	-0.6	-0.5	-0.5	-0.5	-0.5	-0.6	-0.7	-0.7	-0.6
90%	-0.6	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.6	-0.8	-0.7	-0.6
Long Term												
Full Simulation Period[a]	-0.6	-0.6	-0.6	-0.8	-0.7	-0.8	-0.6	-0.5	-0.6	-0.8	-0.7	-0.7
Water Year Types[b]												
Wet (31%)	-0.7	-0.5	-0.6	-1.1	-0.8	-0.9	-0.6	-0.6	-0.5	-0.8	-0.7	-0.8
Above Normal (25%)	-0.5	-0.6	-0.6	-0.9	-0.9	-1.2	-0.9	-0.6	-0.5	-0.8	-0.8	-0.9
Below Normal (6%)	-0.7	-0.8	-0.5	-0.8	-1.0	-1.0	-0.6	-0.6	-0.5	-0.6	-0.8	-0.7
Dry (13%)	-0.6	-0.6	-0.5	-0.6	-0.7	-0.8	-0.5	-0.5	-0.6	-0.8	-0.7	-0.6
Critical (25%)	-0.4	-0.6	-0.5	-0.6	-0.5	-0.6	-0.5	-0.5	-0.6	-0.8	-0.7	-0.6

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-29-1-22. Sacramento River at Freeport, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5.3	7.4	13.3	13.0	14.7	13.6	10.0	6.1	5.7	6.5	5.9	6.8
20%	5.1	6.3	6.1	11.9	13.9	12.1	6.2	5.4	5.5	6.4	5.7	6.3
30%	5.0	5.5	6.0	8.9	9.5	9.9	5.5	5.2	5.4	6.3	5.7	5.6
40%	5.0	5.2	5.7	6.6	7.4	7.5	5.1	5.1	5.3	6.3	5.6	5.2
50%	5.0	5.1	5.6	6.4	6.3	6.9	5.0	4.9	5.3	6.1	5.5	5.2
60%	5.0	5.0	5.4	5.9	5.4	6.2	5.0	4.9	5.2	6.0	5.5	5.1
70%	4.9	5.0	5.2	5.5	5.1	5.4	4.9	4.9	5.2	5.9	5.4	5.1
80%	4.8	4.9	5.1	5.4	5.1	4.9	4.8	4.9	5.2	5.6	5.3	5.1
90%	4.8	4.8	5.0	5.0	4.8	4.8	4.7	4.7	5.1	5.5	5.2	4.9
Long Term												
Full Simulation Period[a]	5.0	5.8	7.1	7.9	8.3	8.2	6.3	5.4	5.4	6.1	5.5	5.6
Water Year Types[b]												
Wet (31%)	5.3	7.8	12.0	10.9	13.3	12.6	9.5	6.4	6.0	6.3	5.8	6.7
Above Normal (25%)	4.8	4.9	5.9	12.7	12.6	10.9	6.2	5.2	5.2	6.2	5.6	5.6
Below Normal (6%)	5.0	5.2	5.1	6.6	7.4	6.6	5.0	4.9	5.3	5.6	5.3	5.1
Dry (13%)	5.0	5.3	5.4	5.5	5.6	6.7	5.2	5.2	5.4	6.2	5.6	5.1
Critical (25%)	5.0	5.1	5.3	5.6	5.0	5.1	4.8	4.8	5.1	5.7	5.2	5.1

Alternative 6A,6B,6C (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.8	7.1	12.1	10.9	13.3	12.3	8.7	5.2	5.0	5.3	5.1	5.6
20%	4.6	5.9	5.5	9.9	12.1	10.8	5.5	4.8	4.7	5.1	4.9	5.4
30%	4.5	4.7	5.4	7.8	7.7	8.4	4.8	4.6	4.7	5.0	4.9	4.8
40%	4.5	4.6	5.1	5.8	6.2	5.9	4.5	4.5	4.6	5.0	4.8	4.7
50%	4.5	4.5	5.0	5.6	5.5	5.7	4.5	4.5	4.6	5.0	4.8	4.7
60%	4.4	4.5	4.8	5.2	5.3	5.3	4.5	4.4	4.5	4.9	4.7	4.6
70%	4.4	4.5	4.6	4.9	4.7	4.7	4.3	4.4	4.5	4.9	4.7	4.6
80%	4.3	4.3	4.4	4.5	4.5	4.4	4.3	4.3	4.4	4.8	4.7	4.5
90%	4.3	4.2	4.4	4.4	4.3	4.2	4.2	4.2	4.4	4.8	4.6	4.4
Long Term												
Full Simulation Period[a]	4.5	5.2	6.4	6.8	7.4	7.2	5.6	4.8	4.7	5.0	4.8	4.8
Water Year Types[b]												
Wet (31%)	4.7	7.0	11.1	9.4	12.0	11.4	8.7	5.7	5.2	5.3	5.1	5.6
Above Normal (25%)	4.2	4.4	5.2	10.9	10.6	9.6	5.2	4.6	4.5	5.0	4.8	4.7
Below Normal (6%)	4.4	4.5	4.3	5.8	6.2	5.5	4.5	4.3	4.7	4.7	4.7	4.6
Dry (13%)	4.5	4.8	4.9	4.9	5.0	5.7	4.7	4.6	4.6	5.0	4.8	4.6
Critical (25%)	4.5	4.5	4.7	4.9	4.6	4.5	4.3	4.3	4.5	4.8	4.7	4.5

Alternative 6A,6B,6C (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.5	-0.3	-1.2	-2.1	-1.4	-1.3	-1.3	-0.9	-0.7	-1.2	-0.7	-1.3
20%	-0.5	-0.3	-0.6	-2.0	-1.7	-1.2	-0.7	-0.6	-0.7	-1.3	-0.8	-0.9
30%	-0.5	-0.8	-0.5	-1.1	-1.8	-1.5	-0.7	-0.7	-0.7	-1.3	-0.8	-0.9
40%	-0.5	-0.6	-0.5	-0.8	-1.2	-1.6	-0.6	-0.6	-0.7	-1.3	-0.8	-0.5
50%	-0.6	-0.6	-0.6	-0.8	-0.8	-1.3	-0.6	-0.5	-0.7	-1.1	-0.7	-0.5
60%	-0.6	-0.5	-0.6	-0.7	0.0	-0.9	-0.5	-0.5	-0.7	-1.1	-0.7	-0.5
70%	-0.5	-0.5	-0.5	-0.7	-0.5	-0.7	-0.6	-0.5	-0.7	-1.1	-0.7	-0.6
80%	-0.5	-0.6	-0.7	-0.8	-0.5	-0.5	-0.6	-0.6	-0.8	-0.8	-0.6	-0.5
90%	-0.5	-0.6	-0.7	-0.5	-0.5	-0.6	-0.5	-0.5	-0.7	-0.8	-0.6	-0.5
Long Term												
Full Simulation Period[a]	-0.5	-0.6	-0.7	-1.0	-0.9	-1.0	-0.7	-0.6	-0.7	-1.1	-0.7	-0.7
Water Year Types[b]												
Wet (31%)	-0.6	-0.7	-0.9	-1.5	-1.3	-1.2	-0.8	-0.8	-0.8	-1.1	-0.7	-1.1
Above Normal (25%)	-0.6	-0.5	-0.6	-1.8	-2.0	-1.3	-1.1	-0.6	-0.8	-1.2	-0.8	-0.9
Below Normal (6%)	-0.6	-0.7	-0.8	-0.8	-1.2	-1.2	-0.5	-0.5	-0.6	-0.8	-0.6	-0.5
Dry (13%)	-0.5	-0.6	-0.6	-0.6	-0.7	-1.0	-0.5	-0.6	-0.7	-1.3	-0.8	-0.5
Critical (25%)	-0.5	-0.6	-0.6	-0.7	-0.4	-0.7	-0.6	-0.5	-0.7	-0.9	-0.6	-0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-29-1-23. Sacramento River at Freeport, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5.3	7.4	13.3	13.0	14.7	13.6	10.0	6.1	5.7	6.5	5.9	6.8
20%	5.1	6.3	6.1	11.9	13.9	12.1	6.2	5.4	5.5	6.4	5.7	6.3
30%	5.0	5.5	6.0	8.9	9.5	9.9	5.5	5.2	5.4	6.3	5.7	5.6
40%	5.0	5.2	5.7	6.6	7.4	7.5	5.1	5.1	5.3	6.3	5.6	5.2
50%	5.0	5.1	5.6	6.4	6.3	6.9	5.0	4.9	5.3	6.1	5.5	5.2
60%	5.0	5.0	5.4	5.9	5.4	6.2	5.0	4.9	5.2	6.0	5.5	5.1
70%	4.9	5.0	5.2	5.5	5.1	5.4	4.9	4.9	5.2	5.9	5.4	5.1
80%	4.8	4.9	5.1	5.4	5.1	4.9	4.8	4.9	5.2	5.6	5.3	5.1
90%	4.8	4.8	5.0	5.0	4.8	4.8	4.7	4.7	5.1	5.5	5.2	4.9
Long Term												
Full Simulation Period[a]	5.0	5.8	7.1	7.9	8.3	8.2	6.3	5.4	5.4	6.1	5.5	5.6
Water Year Types[b]												
Wet (31%)	5.3	7.8	12.0	10.9	13.3	12.6	9.5	6.4	6.0	6.3	5.8	6.7
Above Normal (25%)	4.8	4.9	5.9	12.7	12.6	10.9	6.2	5.2	5.2	6.2	5.6	5.6
Below Normal (6%)	5.0	5.2	5.1	6.6	7.4	6.6	5.0	4.9	5.3	5.6	5.3	5.1
Dry (13%)	5.0	5.3	5.4	5.5	5.6	6.7	5.2	5.2	5.4	6.2	5.6	5.1
Critical (25%)	5.0	5.1	5.3	5.6	5.0	5.1	4.8	4.8	5.1	5.7	5.2	5.1

Alternative 7 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.7	6.8	12.3	11.2	13.2	12.2	8.6	5.3	5.1	5.7	5.1	6.0
20%	4.6	5.8	5.4	10.3	12.2	10.3	5.4	4.8	4.8	5.3	4.9	5.6
30%	4.5	4.7	5.4	7.4	7.7	8.0	4.8	4.6	4.8	5.3	4.8	4.9
40%	4.5	4.6	5.1	5.6	6.0	5.8	4.5	4.5	4.7	5.3	4.8	4.6
50%	4.5	4.6	5.0	5.5	5.4	5.5	4.5	4.5	4.7	5.1	4.8	4.6
60%	4.4	4.5	4.8	5.1	5.2	5.2	4.5	4.4	4.7	5.0	4.7	4.6
70%	4.4	4.5	4.6	4.8	4.7	4.7	4.3	4.4	4.6	4.9	4.7	4.5
80%	4.4	4.3	4.4	4.5	4.5	4.4	4.3	4.3	4.5	4.9	4.7	4.5
90%	4.3	4.2	4.4	4.4	4.3	4.3	4.3	4.3	4.5	4.8	4.6	4.4
Long Term												
Full Simulation Period[a]	4.5	5.2	6.4	6.8	7.3	7.1	5.5	4.8	4.8	5.2	4.8	4.9
Water Year Types[b]												
Wet (31%)	4.7	7.1	11.1	9.3	11.7	11.1	8.5	5.6	5.4	5.4	5.0	5.9
Above Normal (25%)	4.2	4.4	5.2	11.3	10.9	9.0	5.1	4.6	4.7	5.1	4.8	4.9
Below Normal (6%)	4.4	4.5	4.4	5.8	6.0	5.6	4.5	4.4	4.5	5.0	4.6	4.4
Dry (13%)	4.5	4.7	4.8	4.9	4.9	5.7	4.6	4.6	4.7	5.4	4.9	4.5
Critical (25%)	4.4	4.5	4.7	4.8	4.6	4.5	4.3	4.4	4.5	4.8	4.7	4.5

Alternative 7 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.5	-0.5	-0.9	-1.8	-1.5	-1.4	-1.4	-0.8	-0.6	-0.8	-0.8	-0.8
20%	-0.5	-0.5	-0.7	-1.6	-1.7	-1.8	-0.9	-0.6	-0.7	-1.1	-0.8	-0.7
30%	-0.5	-0.8	-0.6	-1.5	-1.8	-1.9	-0.7	-0.6	-0.6	-1.0	-0.8	-0.8
40%	-0.5	-0.6	-0.6	-1.0	-1.4	-1.7	-0.6	-0.6	-0.6	-1.0	-0.8	-0.6
50%	-0.6	-0.6	-0.6	-0.9	-0.9	-1.4	-0.5	-0.4	-0.6	-1.0	-0.7	-0.6
60%	-0.6	-0.5	-0.7	-0.7	-0.1	-1.0	-0.5	-0.5	-0.6	-1.0	-0.7	-0.6
70%	-0.5	-0.5	-0.5	-0.7	-0.5	-0.7	-0.6	-0.5	-0.6	-1.0	-0.6	-0.6
80%	-0.4	-0.6	-0.7	-0.8	-0.5	-0.5	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
90%	-0.6	-0.5	-0.7	-0.5	-0.5	-0.5	-0.5	-0.5	-0.6	-0.8	-0.6	-0.6
Long Term												
Full Simulation Period[a]	-0.5	-0.6	-0.7	-1.0	-1.0	-1.2	-0.7	-0.6	-0.6	-0.9	-0.7	-0.7
Water Year Types[b]												
Wet (31%)	-0.6	-0.7	-0.9	-1.6	-1.5	-1.5	-1.0	-0.8	-0.6	-0.9	-0.8	-0.8
Above Normal (25%)	-0.6	-0.5	-0.7	-1.4	-1.7	-1.9	-1.1	-0.6	-0.6	-1.1	-0.8	-0.8
Below Normal (6%)	-0.6	-0.7	-0.8	-0.8	-1.3	-1.1	-0.5	-0.5	-0.8	-0.6	-0.7	-0.6
Dry (13%)	-0.5	-0.6	-0.6	-0.7	-0.7	-1.0	-0.6	-0.6	-0.7	-0.8	-0.7	-0.6
Critical (25%)	-0.5	-0.6	-0.6	-0.8	-0.4	-0.7	-0.6	-0.4	-0.6	-0.9	-0.6	-0.6

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-29-1-24. Sacramento River at Freeport, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5.3	7.4	13.3	13.0	14.7	13.6	10.0	6.1	5.7	6.5	5.9	6.8
20%	5.1	6.3	6.1	11.9	13.9	12.1	6.2	5.4	5.5	6.4	5.7	6.3
30%	5.0	5.5	6.0	8.9	9.5	9.9	5.5	5.2	5.4	6.3	5.7	5.6
40%	5.0	5.2	5.7	6.6	7.4	7.5	5.1	5.1	5.3	6.3	5.6	5.2
50%	5.0	5.1	5.6	6.4	6.3	6.9	5.0	4.9	5.3	6.1	5.5	5.2
60%	5.0	5.0	5.4	5.9	5.4	6.2	5.0	4.9	5.2	6.0	5.5	5.1
70%	4.9	5.0	5.2	5.5	5.1	5.4	4.9	4.9	5.2	5.9	5.4	5.1
80%	4.8	4.9	5.1	5.4	5.1	4.9	4.8	4.9	5.2	5.6	5.3	5.1
90%	4.8	4.8	5.0	5.0	4.8	4.8	4.7	4.7	5.1	5.5	5.2	4.9
Long Term												
Full Simulation Period[a]	5.0	5.8	7.1	7.9	8.3	8.2	6.3	5.4	5.4	6.1	5.5	5.6
Water Year Types[b]												
Wet (31%)	5.3	7.8	12.0	10.9	13.3	12.6	9.5	6.4	6.0	6.3	5.8	6.7
Above Normal (25%)	4.8	4.9	5.9	12.7	12.6	10.9	6.2	5.2	5.2	6.2	5.6	5.6
Below Normal (6%)	5.0	5.2	5.1	6.6	7.4	6.6	5.0	4.9	5.3	5.6	5.3	5.1
Dry (13%)	5.0	5.3	5.4	5.5	5.6	6.7	5.2	5.2	5.4	6.2	5.6	5.1
Critical (25%)	5.0	5.1	5.3	5.6	5.0	5.1	4.8	4.8	5.1	5.7	5.2	5.1

Alternative 8 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.7	7.2	12.3	11.2	13.1	12.2	8.9	5.6	5.0	5.2	4.9	5.7
20%	4.5	5.9	5.4	10.3	12.2	10.2	5.8	5.0	4.7	4.9	4.8	5.4
30%	4.4	4.7	5.4	7.7	8.4	8.6	5.0	4.8	4.7	4.9	4.8	4.6
40%	4.4	4.6	5.1	6.0	5.9	6.2	4.8	4.6	4.7	4.9	4.8	4.6
50%	4.3	4.5	5.0	5.8	5.7	6.0	4.7	4.6	4.7	4.8	4.7	4.6
60%	4.3	4.5	4.8	5.3	5.3	5.5	4.6	4.6	4.6	4.8	4.6	4.6
70%	4.2	4.4	4.6	4.9	4.8	5.0	4.5	4.5	4.5	4.7	4.6	4.5
80%	4.2	4.2	4.4	4.5	4.5	4.6	4.5	4.4	4.5	4.7	4.6	4.4
90%	4.2	4.2	4.4	4.5	4.4	4.4	4.4	4.4	4.5	4.6	4.5	4.3
Long Term												
Full Simulation Period[a]	4.4	5.2	6.4	7.0	7.5	7.3	5.8	5.0	4.8	4.8	4.7	4.8
Water Year Types[b]												
Wet (31%)	4.6	7.3	11.2	9.5	11.7	11.1	8.6	6.1	5.4	5.1	4.9	5.7
Above Normal (25%)	4.2	4.3	5.2	11.5	11.0	9.2	5.5	4.8	4.6	4.7	4.6	4.6
Below Normal (6%)	4.2	4.4	4.3	6.0	6.9	6.0	4.7	4.8	4.5	4.5	4.5	4.3
Dry (13%)	4.3	4.7	4.9	5.0	5.2	6.2	4.9	4.6	4.6	4.8	4.7	4.5
Critical (25%)	4.3	4.5	4.7	4.9	4.6	4.7	4.4	4.4	4.5	4.7	4.6	4.5

Alternative 8 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.6	-0.2	-0.9	-1.8	-1.6	-1.4	-1.0	-0.5	-0.7	-1.3	-0.9	-1.1
20%	-0.6	-0.4	-0.7	-1.6	-1.7	-1.9	-0.4	-0.4	-0.7	-1.5	-0.9	-0.9
30%	-0.6	-0.8	-0.6	-1.2	-1.2	-1.3	-0.5	-0.4	-0.7	-1.4	-0.9	-1.0
40%	-0.7	-0.6	-0.6	-0.6	-1.4	-1.3	-0.3	-0.4	-0.6	-1.4	-0.9	-0.6
50%	-0.8	-0.6	-0.7	-0.7	-0.6	-0.9	-0.3	-0.3	-0.6	-1.3	-0.8	-0.6
60%	-0.7	-0.5	-0.6	-0.6	0.0	-0.7	-0.3	-0.3	-0.6	-1.2	-0.8	-0.6
70%	-0.7	-0.6	-0.5	-0.6	-0.3	-0.3	-0.4	-0.4	-0.7	-1.2	-0.8	-0.6
80%	-0.6	-0.6	-0.7	-0.8	-0.5	-0.2	-0.4	-0.5	-0.7	-0.9	-0.7	-0.6
90%	-0.7	-0.6	-0.7	-0.5	-0.4	-0.4	-0.3	-0.4	-0.6	-0.9	-0.7	-0.6
Long Term												
Full Simulation Period[a]	-0.7	-0.6	-0.7	-0.9	-0.8	-0.9	-0.5	-0.4	-0.6	-1.2	-0.8	-0.8
Water Year Types[b]												
Wet (31%)	-0.7	-0.5	-0.9	-1.4	-1.6	-1.5	-0.9	-0.4	-0.6	-1.2	-0.9	-1.0
Above Normal (25%)	-0.6	-0.6	-0.7	-1.2	-1.6	-1.7	-0.7	-0.4	-0.6	-1.6	-1.0	-1.0
Below Normal (6%)	-0.8	-0.8	-0.8	-0.6	-0.5	-0.6	-0.3	-0.1	-0.8	-1.1	-0.8	-0.7
Dry (13%)	-0.7	-0.6	-0.6	-0.5	-0.5	-0.5	-0.2	-0.5	-0.7	-1.4	-0.9	-0.6
Critical (25%)	-0.7	-0.6	-0.6	-0.7	-0.3	-0.5	-0.4	-0.3	-0.6	-1.0	-0.6	-0.6

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-29-1-25. Sacramento River at Freeport, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5.3	7.4	13.3	13.0	14.7	13.6	10.0	6.1	5.7	6.5	5.9	6.8
20%	5.1	6.3	6.1	11.9	13.9	12.1	6.2	5.4	5.5	6.4	5.7	6.3
30%	5.0	5.5	6.0	8.9	9.5	9.9	5.5	5.2	5.4	6.3	5.7	5.6
40%	5.0	5.2	5.7	6.6	7.4	7.5	5.1	5.1	5.3	6.3	5.6	5.2
50%	5.0	5.1	5.6	6.4	6.3	6.9	5.0	4.9	5.3	6.1	5.5	5.2
60%	5.0	5.0	5.4	5.9	5.4	6.2	5.0	4.9	5.2	6.0	5.5	5.1
70%	4.9	5.0	5.2	5.5	5.1	5.4	4.9	4.9	5.2	5.9	5.4	5.1
80%	4.8	4.9	5.1	5.4	5.1	4.9	4.8	4.9	5.2	5.6	5.3	5.1
90%	4.8	4.8	5.0	5.0	4.8	4.8	4.7	4.7	5.1	5.5	5.2	4.9
Long Term												
Full Simulation Period[a]	5.0	5.8	7.1	7.9	8.3	8.2	6.3	5.4	5.4	6.1	5.5	5.6
Water Year Types[b]												
Wet (31%)	5.3	7.8	12.0	10.9	13.3	12.6	9.5	6.4	6.0	6.3	5.8	6.7
Above Normal (25%)	4.8	4.9	5.9	12.7	12.6	10.9	6.2	5.2	5.2	6.2	5.6	5.6
Below Normal (6%)	5.0	5.2	5.1	6.6	7.4	6.6	5.0	4.9	5.3	5.6	5.3	5.1
Dry (13%)	5.0	5.3	5.4	5.5	5.6	6.7	5.2	5.2	5.4	6.2	5.6	5.1
Critical (25%)	5.0	5.1	5.3	5.6	5.0	5.1	4.8	4.8	5.1	5.7	5.2	5.1

Alternative 9 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.8	7.1	12.9	12.5	14.5	13.5	9.3	5.7	5.1	5.6	5.2	6.7
20%	4.7	5.9	5.3	11.4	13.6	11.6	5.5	4.9	4.9	5.5	5.1	6.1
30%	4.6	5.0	5.3	8.1	8.8	9.0	4.9	4.7	4.8	5.4	5.1	5.2
40%	4.5	4.6	5.1	5.8	6.6	6.4	4.5	4.6	4.8	5.4	5.1	4.6
50%	4.4	4.6	4.9	5.7	5.6	6.1	4.5	4.4	4.7	5.3	5.0	4.6
60%	4.4	4.5	4.7	5.1	4.7	5.5	4.4	4.4	4.7	5.2	4.9	4.6
70%	4.3	4.4	4.6	4.7	4.5	4.7	4.4	4.4	4.6	5.0	4.8	4.6
80%	4.3	4.2	4.5	4.4	4.4	4.3	4.3	4.3	4.5	4.9	4.7	4.5
90%	4.3	4.2	4.4	4.3	4.2	4.2	4.2	4.2	4.5	4.8	4.6	4.4
Long Term												
Full Simulation Period[a]	4.5	5.3	6.5	7.2	7.8	7.6	5.7	4.9	4.8	5.3	4.9	5.1
Water Year Types[b]												
Wet (31%)	4.8	7.4	11.7	10.3	12.9	12.3	9.1	6.0	5.5	5.5	5.2	6.5
Above Normal (25%)	4.2	4.4	5.1	12.4	12.2	10.3	5.6	4.6	4.6	5.5	5.0	5.2
Below Normal (6%)	4.5	4.8	4.5	5.8	6.6	6.0	4.5	4.3	4.7	4.9	4.7	4.5
Dry (13%)	4.5	4.7	4.8	4.8	5.0	6.0	4.6	4.8	4.8	5.3	5.0	4.5
Critical (25%)	4.4	4.6	4.7	4.8	4.4	4.5	4.2	4.3	4.5	5.0	4.7	4.5

Alternative 9 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.4	-0.3	-0.3	-0.5	-0.1	-0.2	-0.6	-0.4	-0.5	-1.0	-0.6	-0.2
20%	-0.5	-0.4	-0.8	-0.4	-0.3	-0.5	-0.7	-0.5	-0.6	-0.9	-0.6	-0.2
30%	-0.4	-0.5	-0.7	-0.8	-0.8	-0.9	-0.6	-0.6	-0.6	-0.9	-0.6	-0.5
40%	-0.5	-0.6	-0.6	-0.8	-0.7	-1.1	-0.6	-0.5	-0.5	-0.9	-0.6	-0.6
50%	-0.6	-0.6	-0.7	-0.7	-0.7	-0.8	-0.6	-0.5	-0.6	-0.8	-0.5	-0.6
60%	-0.6	-0.5	-0.7	-0.7	-0.7	-0.8	-0.6	-0.5	-0.6	-0.8	-0.5	-0.6
70%	-0.6	-0.5	-0.6	-0.8	-0.6	-0.6	-0.5	-0.5	-0.6	-0.9	-0.6	-0.6
80%	-0.5	-0.6	-0.6	-1.0	-0.7	-0.6	-0.5	-0.6	-0.7	-0.7	-0.6	-0.5
90%	-0.5	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.5	-0.6	-0.7	-0.6	-0.5
Long Term												
Full Simulation Period[a]	-0.5	-0.5	-0.6	-0.7	-0.5	-0.6	-0.5	-0.5	-0.6	-0.8	-0.6	-0.4
Water Year Types[b]												
Wet (31%)	-0.4	-0.4	-0.3	-0.6	-0.3	-0.3	-0.4	-0.5	-0.5	-0.8	-0.6	-0.2
Above Normal (25%)	-0.6	-0.5	-0.7	-0.3	-0.4	-0.7	-0.7	-0.6	-0.6	-0.7	-0.5	-0.5
Below Normal (6%)	-0.6	-0.4	-0.6	-0.8	-0.7	-0.7	-0.6	-0.6	-0.6	-0.7	-0.6	-0.5
Dry (13%)	-0.5	-0.6	-0.6	-0.7	-0.7	-0.7	-0.5	-0.4	-0.6	-0.9	-0.6	-0.6
Critical (25%)	-0.5	-0.5	-0.6	-0.8	-0.6	-0.6	-0.6	-0.5	-0.6	-0.8	-0.6	-0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-29-2-1. Sacramento River at Freeport, Monthly Averaged Daily Minimum Elevation

Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	2.6	6.3	11.9	11.1	13.5	12.7	8.5	4.3	2.5	3.2	2.4	2.6
20%	1.7	5.0	3.7	9.1	12.4	10.1	3.3	1.9	1.6	2.8	2.2	1.7
30%	1.4	2.0	2.8	6.6	7.0	8.0	2.6	1.8	1.5	2.8	2.1	1.7
40%	1.2	1.3	2.4	3.5	5.6	6.0	1.9	1.6	1.4	2.7	2.0	1.6
50%	1.2	1.2	2.1	3.5	3.7	4.7	1.7	1.4	1.4	2.7	1.8	1.3
60%	1.1	1.1	1.8	2.7	1.9	4.4	1.5	1.1	1.4	2.7	1.6	1.2
70%	1.0	1.0	1.6	1.8	1.8	2.8	1.4	0.9	1.1	2.5	1.6	1.2
80%	0.9	0.9	1.4	1.6	1.7	1.8	1.3	0.8	0.9	2.2	1.5	0.9
90%	0.7	0.6	0.9	1.2	0.9	1.1	1.0	0.5	0.8	1.9	1.2	0.9
Long Term												
Full Simulation Period[a]	1.4	2.6	3.9	4.9	5.7	6.1	3.3	2.1	1.9	2.6	1.8	1.6
Water Year Types[b]												
Wet (31%)	2.2	5.9	10.2	8.7	11.7	11.7	7.2	4.8	3.9	3.2	2.1	2.9
Above Normal (25%)	0.9	1.3	2.5	10.9	10.4	9.1	4.2	2.4	1.6	2.3	1.8	1.6
Below Normal (6%)	1.7	1.1	1.0	3.5	5.6	4.8	1.9	1.9	1.6	2.8	2.0	1.3
Dry (13%)	1.1	2.0	2.1	2.1	2.5	4.4	1.9	1.3	1.5	2.7	2.2	1.4
Critical (25%)	1.2	1.1	1.6	2.1	1.4	1.9	1.1	0.6	0.8	2.2	1.3	0.9

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	2.8	5.4	12.4	12.4	14.1	13.1	9.0	3.9	3.0	4.5	3.3	5.1
20%	2.7	4.2	3.8	10.8	13.3	11.3	4.3	2.9	2.8	4.5	3.2	4.3
30%	2.6	3.2	3.7	7.6	8.4	8.8	3.3	2.7	2.6	4.2	3.2	3.6
40%	2.5	2.8	3.2	4.5	5.5	6.3	2.8	2.4	2.5	4.1	3.1	2.5
50%	2.4	2.5	3.1	4.3	4.4	5.3	2.6	2.2	2.4	3.8	2.9	2.3
60%	2.4	2.1	2.7	3.6	3.1	4.4	2.5	2.1	2.3	3.6	2.8	2.2
70%	2.3	2.0	2.6	3.2	2.6	3.3	2.4	2.0	2.2	3.4	2.4	2.1
80%	2.1	1.9	2.0	2.7	2.4	2.5	2.3	1.8	2.1	3.0	2.2	2.0
90%	1.9	1.8	1.9	2.3	1.9	2.2	2.1	1.6	2.0	2.7	2.1	2.0
Long Term												
Full Simulation Period[a]	2.4	3.3	4.8	6.0	6.5	6.7	4.2	2.7	2.6	3.7	2.8	3.0
Water Year Types[b]												
Wet (31%)	2.8	5.8	10.9	9.8	12.5	12.0	8.0	4.2	3.5	4.0	3.2	5.0
Above Normal (25%)	2.1	2.2	3.5	11.8	11.8	10.1	4.6	2.7	2.6	4.3	3.2	3.6
Below Normal (6%)	2.7	2.8	2.6	4.5	5.5	5.1	2.8	2.2	2.8	3.3	2.8	2.5
Dry (13%)	2.3	2.8	2.9	3.0	3.4	4.9	2.8	2.5	2.4	4.0	3.0	2.2
Critical (25%)	2.3	2.2	2.4	3.2	2.3	2.8	2.3	1.8	2.0	3.1	2.2	2.0

No Action Alternative (LLT) minus Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.2	**-0.9**	0.6	1.2	0.6	0.4	0.6	**-0.4**	0.5	1.3	0.9	2.5
20%	1.1	**-0.8**	0.1	1.7	0.9	1.2	1.0	1.0	1.2	1.7	1.0	2.6
30%	1.2	1.2	0.9	1.0	1.4	0.8	0.7	0.9	1.2	1.5	1.0	1.9
40%	1.3	1.4	0.8	0.9	**-0.1**	0.3	0.9	0.8	1.0	1.3	1.1	0.9
50%	1.3	1.3	1.0	0.8	0.6	0.5	0.8	0.8	1.0	1.1	1.1	1.0
60%	1.3	0.9	1.0	0.8	1.1	**0.0**	1.0	1.0	0.9	0.9	1.2	1.0
70%	1.3	1.0	1.0	1.4	0.8	0.5	1.0	1.1	1.1	0.9	0.8	0.9
80%	1.2	1.0	0.7	1.1	0.7	0.7	1.0	1.0	1.2	0.8	0.7	1.1
90%	1.2	1.1	1.0	1.2	1.0	1.1	1.1	1.1	1.2	0.8	1.0	1.1
Long Term												
Full Simulation Period[a]	1.0	0.7	0.9	1.0	0.9	0.6	0.9	0.6	0.7	1.0	0.9	1.4
Water Year Types[b]												
Wet (31%)	0.6	**-0.1**	0.7	1.1	0.8	0.3	0.8	**-0.6**	**-0.4**	0.8	1.1	2.1
Above Normal (25%)	1.2	0.9	1.0	0.9	1.4	1.0	0.3	0.3	0.9	1.9	1.4	1.9
Below Normal (6%)	1.1	1.6	1.6	1.0	**-0.1**	0.3	0.9	0.3	1.3	0.5	0.8	1.2
Dry (13%)	1.2	0.8	0.8	0.9	0.9	0.5	0.9	1.2	1.0	1.3	0.8	0.8
Critical (25%)	1.1	1.1	0.8	1.2	0.9	0.9	1.1	1.2	1.2	0.8	0.9	1.1

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

Table C-29-2-2. Sacramento River at Freeport, Monthly Averaged Daily Minimum Elevation

Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.6	6.3	11.9	11.1	13.5	12.7	8.5	4.3	2.5	3.2	2.4	2.6
20%	1.7	5.0	3.7	9.1	12.4	10.1	3.3	1.9	1.6	2.8	2.2	1.7
30%	1.4	2.0	2.8	6.6	7.0	8.0	2.6	1.8	1.5	2.8	2.1	1.7
40%	1.2	1.3	2.4	3.5	5.6	6.0	1.9	1.6	1.4	2.7	2.0	1.6
50%	1.2	1.2	2.1	3.5	3.7	4.7	1.7	1.4	1.4	2.7	1.8	1.3
60%	1.1	1.1	1.8	2.7	1.9	4.4	1.5	1.1	1.4	2.7	1.6	1.2
70%	1.0	1.0	1.6	1.8	1.8	2.8	1.4	0.9	1.1	2.5	1.6	1.2
80%	0.9	0.9	1.4	1.6	1.7	1.8	1.3	0.8	0.9	2.2	1.5	0.9
90%	0.7	0.6	0.9	1.2	0.9	1.1	1.0	0.5	0.8	1.9	1.2	0.9
Long Term												
Full Simulation Period[a]	1.4	2.6	3.9	4.9	5.7	6.1	3.3	2.1	1.9	2.6	1.8	1.6
Water Year Types[b]												
Wet (31%)	2.2	5.9	10.2	8.7	11.7	11.7	7.2	4.8	3.9	3.2	2.1	2.9
Above Normal (25%)	0.9	1.3	2.5	10.9	10.4	9.1	4.2	2.4	1.6	2.3	1.8	1.6
Below Normal (6%)	1.7	1.1	1.0	3.5	5.6	4.8	1.9	1.9	1.6	2.8	2.0	1.3
Dry (13%)	1.1	2.0	2.1	2.1	2.5	4.4	1.9	1.3	1.5	2.7	2.2	1.4
Critical (25%)	1.2	1.1	1.6	2.1	1.4	1.9	1.1	0.6	0.8	2.2	1.3	0.9

Alternative 1A,1B,1C (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.9	4.2	10.7	10.2	12.3	11.3	7.0	3.3	3.4	4.0	2.8	2.6
20%	3.5	3.8	3.4	8.6	11.2	9.2	3.9	2.9	3.0	3.9	2.8	2.6
30%	2.9	2.8	3.2	6.2	6.2	6.8	3.0	2.7	2.9	3.6	2.7	2.5
40%	2.7	2.2	3.1	3.7	4.0	4.0	2.6	2.5	2.8	3.2	2.5	2.4
50%	2.3	2.1	3.0	3.4	3.3	3.8	2.6	2.4	2.6	3.1	2.4	2.3
60%	2.3	1.9	2.9	3.0	2.4	3.4	2.6	2.4	2.6	3.0	2.3	2.3
70%	2.2	1.8	2.4	2.6	2.4	2.8	2.4	2.3	2.5	2.8	2.3	2.1
80%	2.1	1.8	2.3	2.4	2.3	2.4	2.3	2.0	2.3	2.6	2.3	2.1
90%	2.0	1.7	2.1	2.1	2.3	2.0	2.3	1.8	2.2	2.4	2.3	2.1
Long Term												
Full Simulation Period[a]	2.8	2.8	4.4	4.9	5.5	5.5	3.8	2.7	2.8	3.2	2.6	2.4
Water Year Types[b]												
Wet (31%)	2.5	5.2	9.6	7.9	10.6	10.2	7.0	3.6	3.4	3.6	2.4	2.4
Above Normal (25%)	2.8	1.8	3.2	9.6	9.8	8.1	3.4	2.5	2.8	3.3	2.3	2.0
Below Normal (6%)	4.2	1.8	2.4	3.7	4.0	3.6	2.5	2.3	2.8	2.4	2.1	2.1
Dry (13%)	2.2	2.2	2.8	3.0	2.7	3.9	2.8	2.7	2.8	3.6	3.1	2.4
Critical (25%)	3.2	2.1	2.4	2.5	2.3	2.4	2.3	2.0	2.3	2.8	2.4	2.4

Alternative 1A,1B,1C (LLT) minus Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.3	**-2.2**	**-1.1**	**-0.9**	**-1.2**	**-1.4**	**-1.4**	**-1.0**	0.9	0.8	0.4	0.1
20%	1.8	**-1.3**	**-0.4**	**-0.6**	**-1.2**	**-0.9**	0.5	0.9	1.5	1.1	0.6	0.8
30%	1.6	0.9	0.4	**-0.4**	**-0.8**	**-1.1**	0.4	0.9	1.4	0.9	0.5	0.8
40%	1.6	0.9	0.7	0.1	**-1.6**	**-2.0**	0.8	0.9	1.3	0.5	0.5	0.9
50%	1.2	0.9	0.9	**-0.1**	**-0.4**	**-0.9**	0.9	1.1	1.2	0.4	0.6	1.0
60%	1.2	0.8	1.1	0.3	0.5	**-1.0**	1.1	1.2	1.2	0.3	0.7	1.1
70%	1.2	0.9	0.8	0.8	0.6	0.0	1.0	1.4	1.4	0.3	0.8	0.9
80%	1.2	0.8	0.9	0.8	0.6	0.5	1.0	1.2	1.5	0.4	0.8	1.2
90%	1.3	1.1	1.2	0.9	1.4	0.9	1.3	1.3	1.4	0.5	1.1	1.2
Long Term												
Full Simulation Period[a]	1.4	0.3	0.5	0.0	**-0.1**	**-0.6**	0.5	0.6	0.9	0.6	0.7	0.7
Water Year Types[b]												
Wet (31%)	0.2	**-0.7**	**-0.6**	**-0.8**	**-1.1**	**-1.6**	**-0.2**	**-1.2**	**-0.5**	0.3	0.3	**-0.4**
Above Normal (25%)	1.9	0.5	0.7	**-1.3**	**-0.6**	**-1.1**	**-0.8**	0.2	1.1	1.0	0.5	0.3
Below Normal (6%)	2.5	0.6	1.4	0.2	**-1.6**	**-1.2**	0.6	0.4	1.2	**-0.4**	0.1	0.8
Dry (13%)	1.1	0.2	0.7	0.9	0.1	**-0.4**	1.0	1.4	1.4	0.9	0.8	1.0
Critical (25%)	2.0	1.0	0.8	0.4	0.9	0.5	1.2	1.4	1.4	0.5	1.1	1.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-29-2-3. Sacramento River at Freeport, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.6	6.3	11.9	11.1	13.5	12.7	8.5	4.3	2.5	3.2	2.4	2.6
20%	1.7	5.0	3.7	9.1	12.4	10.1	3.3	1.9	1.6	2.8	2.2	1.7
30%	1.4	2.0	2.8	6.6	7.0	8.0	2.6	1.8	1.5	2.8	2.1	1.7
40%	1.2	1.3	2.4	3.5	5.6	6.0	1.9	1.6	1.4	2.7	2.0	1.6
50%	1.2	1.2	2.1	3.5	3.7	4.7	1.7	1.4	1.4	2.7	1.8	1.3
60%	1.1	1.1	1.8	2.7	1.9	4.4	1.5	1.1	1.4	2.7	1.6	1.2
70%	1.0	1.0	1.6	1.8	1.8	2.8	1.4	0.9	1.1	2.5	1.6	1.2
80%	0.9	0.9	1.4	1.6	1.7	1.8	1.3	0.8	0.9	2.2	1.5	0.9
90%	0.7	0.6	0.9	1.2	0.9	1.1	1.0	0.5	0.8	1.9	1.2	0.9
Long Term												
Full Simulation Period[a]	1.4	2.6	3.9	4.9	5.7	6.1	3.3	2.1	1.9	2.6	1.8	1.6
Water Year Types[b]												
Wet (31%)	2.2	5.9	10.2	8.7	11.7	11.7	7.2	4.8	3.9	3.2	2.1	2.9
Above Normal (25%)	0.9	1.3	2.5	10.9	10.4	9.1	4.2	2.4	1.6	2.3	1.8	1.6
Below Normal (6%)	1.7	1.1	1.0	3.5	5.6	4.8	1.9	1.9	1.6	2.8	2.0	1.3
Dry (13%)	1.1	2.0	2.1	2.1	2.5	4.4	1.9	1.3	1.5	2.7	2.2	1.4
Critical (25%)	1.2	1.1	1.6	2.1	1.4	1.9	1.1	0.6	0.8	2.2	1.3	0.9

Alternative 2A,2B,2C (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.8	4.1	10.6	10.3	12.3	11.4	7.2	3.4	3.4	4.2	3.0	4.0
20%	2.7	3.6	3.3	8.8	11.4	9.3	4.0	2.9	3.0	3.9	2.7	3.7
30%	2.5	2.5	3.2	5.9	6.2	6.6	2.8	2.7	2.9	3.7	2.6	2.9
40%	2.3	2.3	3.1	3.6	4.0	4.2	2.7	2.6	2.9	3.6	2.6	2.7
50%	2.2	2.2	2.8	3.4	3.4	4.0	2.5	2.5	2.6	3.4	2.5	2.5
60%	2.1	2.0	2.6	3.2	2.5	3.5	2.4	2.3	2.5	3.1	2.5	2.4
70%	2.0	1.9	2.5	2.7	2.4	2.7	2.3	2.1	2.4	2.9	2.4	2.4
80%	1.9	1.9	2.4	2.5	2.3	2.3	2.3	2.0	2.3	2.6	2.3	2.3
90%	1.9	1.8	2.3	2.2	1.8	2.1	2.2	1.8	2.3	2.4	2.3	2.3
Long Term												
Full Simulation Period[a]	2.3	2.8	4.4	5.0	5.5	5.5	3.7	2.7	2.8	3.4	2.6	2.9
Water Year Types[b]												
Wet (31%)	2.4	4.7	9.5	8.0	10.7	10.2	7.0	3.6	3.4	3.7	2.5	4.0
Above Normal (25%)	2.6	1.9	3.2	9.7	9.7	8.2	3.4	2.6	2.5	4.1	2.7	2.7
Below Normal (6%)	2.1	1.9	2.4	3.7	4.0	3.8	2.6	2.3	2.9	2.4	2.2	2.2
Dry (13%)	2.0	2.4	2.7	2.6	2.8	3.7	2.8	2.8	2.9	3.5	2.9	2.5
Critical (25%)	2.4	2.2	2.5	2.9	2.1	2.5	2.2	2.0	2.3	2.8	2.4	2.4

Alternative 2A,2B,2C (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.2	-2.2	-1.3	-0.8	-1.2	-1.3	-1.3	-0.9	0.9	1.0	0.5	1.4
20%	1.0	-1.4	-0.4	-0.4	-1.1	-0.8	0.7	0.9	1.5	1.1	0.6	2.0
30%	1.2	0.5	0.4	-0.7	-0.8	-1.4	0.2	1.0	1.4	0.9	0.5	1.2
40%	1.2	0.9	0.6	0.0	-1.5	-1.8	0.8	1.0	1.4	0.9	0.6	1.1
50%	1.0	1.0	0.8	-0.1	-0.3	-0.8	0.8	1.1	1.2	0.7	0.7	1.2
60%	1.0	0.8	0.9	0.5	0.6	-0.9	0.9	1.1	1.2	0.5	0.9	1.2
70%	1.0	1.0	0.9	0.9	0.6	-0.1	0.9	1.2	1.3	0.4	0.9	1.1
80%	1.0	1.0	1.0	0.9	0.5	0.4	1.0	1.2	1.5	0.5	0.8	1.4
90%	1.2	1.2	1.4	1.1	0.9	1.0	1.3	1.3	1.5	0.5	1.1	1.4
Long Term												
Full Simulation Period[a]	0.9	0.3	0.5	0.1	-0.2	-0.6	0.5	0.6	0.9	0.7	0.7	1.2
Water Year Types[b]												
Wet (31%)	0.1	-1.2	-0.6	-0.7	-1.0	-1.5	-0.2	-1.2	-0.5	0.4	0.4	1.1
Above Normal (25%)	1.7	0.6	0.7	-1.2	-0.7	-0.9	-0.9	0.2	0.9	1.7	0.9	1.1
Below Normal (6%)	0.5	0.8	1.4	0.2	-1.5	-1.1	0.7	0.3	1.3	-0.4	0.2	0.9
Dry (13%)	0.9	0.4	0.6	0.4	0.2	-0.7	0.9	1.5	1.4	0.9	0.6	1.1
Critical (25%)	1.2	1.1	0.9	0.8	0.7	0.6	1.1	1.4	1.5	0.6	1.1	1.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-29-2-4. Sacramento River at Freeport, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.6	6.3	11.9	11.1	13.5	12.7	8.5	4.3	2.5	3.2	2.4	2.6
20%	1.7	5.0	3.7	9.1	12.4	10.1	3.3	1.9	1.6	2.8	2.2	1.7
30%	1.4	2.0	2.8	6.6	7.0	8.0	2.6	1.8	1.5	2.8	2.1	1.7
40%	1.2	1.3	2.4	3.5	5.6	6.0	1.9	1.6	1.4	2.7	2.0	1.6
50%	1.2	1.2	2.1	3.5	3.7	4.7	1.7	1.4	1.4	2.7	1.8	1.3
60%	1.1	1.1	1.8	2.7	1.9	4.4	1.5	1.1	1.4	2.7	1.6	1.2
70%	1.0	1.0	1.6	1.8	1.8	2.8	1.4	0.9	1.1	2.5	1.6	1.2
80%	0.9	0.9	1.4	1.6	1.7	1.8	1.3	0.8	0.9	2.2	1.5	0.9
90%	0.7	0.6	0.9	1.2	0.9	1.1	1.0	0.5	0.8	1.9	1.2	0.9
Long Term												
Full Simulation Period[a]	1.4	2.6	3.9	4.9	5.7	6.1	3.3	2.1	1.9	2.6	1.8	1.6
Water Year Types[b]												
Wet (31%)	2.2	5.9	10.2	8.7	11.7	11.7	7.2	4.8	3.9	3.2	2.1	2.9
Above Normal (25%)	0.9	1.3	2.5	10.9	10.4	9.1	4.2	2.4	1.6	2.3	1.8	1.6
Below Normal (6%)	1.7	1.1	1.0	3.5	5.6	4.8	1.9	1.9	1.6	2.8	2.0	1.3
Dry (13%)	1.1	2.0	2.1	2.1	2.5	4.4	1.9	1.3	1.5	2.7	2.2	1.4
Critical (25%)	1.2	1.1	1.6	2.1	1.4	1.9	1.1	0.6	0.8	2.2	1.3	0.9

Alternative 3 (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.9	5.0	11.6	10.8	12.9	12.0	7.6	3.7	3.6	4.1	2.9	2.7
20%	3.6	3.8	3.7	9.5	12.0	9.8	3.9	2.8	3.1	4.0	2.7	2.6
30%	3.1	2.3	3.4	6.4	6.8	7.2	3.1	2.7	2.8	3.7	2.7	2.5
40%	2.7	2.2	3.0	3.9	4.4	4.4	2.7	2.5	2.7	3.2	2.5	2.4
50%	2.5	2.1	3.0	3.7	3.7	4.2	2.7	2.4	2.6	3.0	2.4	2.4
60%	2.2	2.1	2.9	3.1	2.7	3.6	2.6	2.3	2.4	3.0	2.3	2.3
70%	2.2	2.0	2.5	2.6	2.5	3.1	2.5	2.3	2.4	2.8	2.3	2.3
80%	2.1	2.0	2.2	2.5	2.4	2.5	2.4	2.0	2.4	2.5	2.3	2.3
90%	2.0	1.9	2.2	2.2	2.0	2.2	2.3	1.8	2.2	2.4	2.2	2.1
Long Term												
Full Simulation Period[a]	2.8	3.0	4.6	5.3	5.8	5.9	3.9	2.7	2.8	3.2	2.5	2.4
Water Year Types[b]												
Wet (31%)	2.5	5.4	10.2	8.5	11.3	10.7	7.4	3.8	3.6	3.5	2.4	2.7
Above Normal (25%)	3.1	2.1	3.2	10.4	10.5	8.5	3.8	2.5	2.8	3.4	2.3	2.2
Below Normal (6%)	3.6	2.1	2.5	3.9	4.4	4.0	2.6	2.3	2.7	2.3	2.1	2.0
Dry (13%)	2.2	2.3	2.9	2.9	3.0	4.3	2.9	2.8	2.7	3.7	2.9	2.4
Critical (25%)	3.3	2.1	2.5	2.8	2.2	2.6	2.3	2.0	2.3	2.8	2.5	2.5

Alternative 3 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.3	-1.3	-0.3	-0.3	-0.6	-0.7	-0.8	-0.6	1.1	0.9	0.4	0.1
20%	2.0	-1.3	-0.1	0.3	-0.5	-0.3	0.5	0.9	1.5	1.2	0.6	0.9
30%	1.7	0.3	0.6	-0.2	-0.2	-0.8	0.5	0.9	1.3	0.9	0.5	0.8
40%	1.5	0.9	0.6	0.4	-1.2	-1.6	0.8	0.9	1.2	0.5	0.5	0.9
50%	1.3	1.0	0.9	0.3	-0.1	-0.5	0.9	1.0	1.2	0.3	0.6	1.0
60%	1.2	0.9	1.1	0.4	0.8	-0.8	1.2	1.2	1.1	0.3	0.7	1.1
70%	1.2	1.1	0.9	0.8	0.7	0.3	1.1	1.3	1.3	0.3	0.7	1.1
80%	1.2	1.0	0.9	0.9	0.7	0.7	1.1	1.2	1.5	0.3	0.8	1.4
90%	1.3	1.2	1.3	1.1	1.0	1.1	1.3	1.3	1.5	0.5	1.1	1.2
Long Term												
Full Simulation Period[a]	1.4	0.4	0.7	0.3	0.2	-0.2	0.7	0.6	0.9	0.6	0.7	0.8
Water Year Types[b]												
Wet (31%)	0.2	-0.5	0.0	-0.2	-0.5	-1.0	0.2	-0.9	-0.3	0.3	0.3	-0.2
Above Normal (25%)	2.2	0.7	0.7	-0.5	0.0	-0.7	-0.5	0.1	1.2	1.0	0.5	0.6
Below Normal (6%)	2.0	0.9	1.5	0.4	-1.2	-0.8	0.8	0.4	1.2	-0.4	0.0	0.7
Dry (13%)	1.1	0.4	0.8	0.8	0.5	-0.1	1.0	1.5	1.2	1.0	0.7	1.0
Critical (25%)	2.1	1.0	0.9	0.7	0.8	0.7	1.2	1.4	1.4	0.6	1.2	1.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-29-2-5. Sacramento River at Freeport, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.6	6.3	11.9	11.1	13.5	12.7	8.5	4.3	2.5	3.2	2.4	2.6
20%	1.7	5.0	3.7	9.1	12.4	10.1	3.3	1.9	1.6	2.8	2.2	1.7
30%	1.4	2.0	2.8	6.6	7.0	8.0	2.6	1.8	1.5	2.8	2.1	1.7
40%	1.2	1.3	2.4	3.5	5.6	6.0	1.9	1.6	1.4	2.7	2.0	1.6
50%	1.2	1.2	2.1	3.5	3.7	4.7	1.7	1.4	1.4	2.7	1.8	1.3
60%	1.1	1.1	1.8	2.7	1.9	4.4	1.5	1.1	1.4	2.7	1.6	1.2
70%	1.0	1.0	1.6	1.8	1.8	2.8	1.4	0.9	1.1	2.5	1.6	1.2
80%	0.9	0.9	1.4	1.6	1.7	1.8	1.3	0.8	0.9	2.2	1.5	0.9
90%	0.7	0.6	0.9	1.2	0.9	1.1	1.0	0.5	0.8	1.9	1.2	0.9
Long Term												
Full Simulation Period[a]	1.4	2.6	3.9	4.9	5.7	6.1	3.3	2.1	1.9	2.6	1.8	1.6
Water Year Types[b]												
Wet (31%)	2.2	5.9	10.2	8.7	11.7	11.7	7.2	4.8	3.9	3.2	2.1	2.9
Above Normal (25%)	0.9	1.3	2.5	10.9	10.4	9.1	4.2	2.4	1.6	2.3	1.8	1.6
Below Normal (6%)	1.7	1.1	1.0	3.5	5.6	4.8	1.9	1.9	1.6	2.8	2.0	1.3
Dry (13%)	1.1	2.0	2.1	2.1	2.5	4.4	1.9	1.3	1.5	2.7	2.2	1.4
Critical (25%)	1.2	1.1	1.6	2.1	1.4	1.9	1.1	0.6	0.8	2.2	1.3	0.9

Alternative 4 H1 (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.8	4.9	11.2	10.6	12.7	11.7	7.4	3.6	3.3	4.5	3.1	2.9
20%	2.8	3.7	3.6	9.2	11.7	9.6	4.1	2.9	3.0	3.9	2.9	2.6
30%	2.7	2.2	3.3	6.2	6.6	7.2	2.9	2.8	2.9	3.8	2.8	2.6
40%	2.5	2.2	3.2	3.9	4.3	4.3	2.7	2.4	2.7	3.7	2.6	2.5
50%	2.4	2.1	3.0	3.8	3.6	4.2	2.6	2.4	2.6	3.3	2.6	2.4
60%	2.1	2.0	2.8	3.4	2.7	3.7	2.5	2.2	2.5	3.0	2.5	2.4
70%	2.0	2.0	2.5	3.3	2.4	2.9	2.4	2.1	2.4	2.8	2.4	2.3
80%	2.0	1.9	2.3	2.9	2.3	2.3	2.3	2.0	2.3	2.7	2.3	2.3
90%	1.9	1.8	2.3	2.3	2.0	2.2	2.3	1.7	2.2	2.3	2.3	2.2
Long Term												
Full Simulation Period[a]	2.4	2.9	4.5	5.3	5.7	5.8	3.8	2.7	2.8	3.4	2.7	2.5
Water Year Types[b]												
Wet (31%)	2.3	5.2	9.9	8.3	11.0	10.5	7.2	3.7	3.5	3.8	2.6	2.7
Above Normal (25%)	2.5	2.0	3.3	10.3	10.2	8.4	3.5	2.5	2.5	4.1	2.8	2.2
Below Normal (6%)	2.9	2.0	2.4	3.9	4.3	4.0	2.7	2.2	2.7	2.2	2.1	2.0
Dry (13%)	2.0	2.4	2.8	2.8	2.9	4.1	2.9	2.8	2.8	3.6	3.0	2.7
Critical (25%)	2.5	2.1	2.6	3.2	2.2	2.6	2.3	2.0	2.3	2.7	2.4	2.4

Alternative 4 H1 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.2	**-1.5**	**-0.6**	**-0.5**	**-0.8**	**-1.0**	**-1.1**	**-0.7**	0.8	1.3	0.7	0.4
20%	1.1	**-1.3**	**-0.1**	0.1	**-0.8**	**-0.5**	0.8	0.9	1.4	1.1	0.7	0.8
30%	1.3	0.3	0.6	**-0.5**	**-0.4**	**-0.7**	0.2	1.0	1.4	1.1	0.6	0.9
40%	1.3	0.8	0.8	0.4	**-1.3**	**-1.7**	0.8	0.8	1.3	1.0	0.6	1.0
50%	1.2	0.9	1.0	0.3	**-0.1**	**-0.6**	0.9	1.0	1.2	0.6	0.7	1.1
60%	1.0	0.9	1.0	0.7	0.7	**-0.7**	1.0	1.1	1.2	0.3	0.9	1.1
70%	1.0	1.0	0.8	1.5	0.6	0.0	1.0	1.2	1.3	0.3	0.8	1.1
80%	1.1	1.0	0.9	1.3	0.6	0.5	1.1	1.2	1.4	0.5	0.8	1.3
90%	1.3	1.2	1.4	1.2	1.1	1.1	1.3	1.3	1.4	0.4	1.1	1.3
Long Term												
Full Simulation Period[a]	1.0	0.4	0.6	0.4	0.1	**-0.3**	0.5	0.6	0.9	0.7	0.8	0.9
Water Year Types[b]												
Wet (31%)	0.1	**-0.7**	**-0.2**	**-0.4**	**-0.7**	**-1.2**	**-0.1**	**-1.1**	**-0.4**	0.6	0.5	**-0.2**
Above Normal (25%)	1.6	0.7	0.8	**-0.6**	**-0.2**	**-0.7**	**-0.7**	0.2	0.9	1.8	0.9	0.5
Below Normal (6%)	1.2	0.9	1.4	0.4	**-1.3**	**-0.8**	0.8	0.3	1.2	**-0.5**	0.1	0.7
Dry (13%)	0.9	0.4	0.7	0.6	0.4	**-0.3**	1.0	1.5	1.4	0.9	0.8	1.3
Critical (25%)	1.4	1.0	1.0	1.1	0.8	0.7	1.1	1.4	1.4	0.5	1.1	1.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-29-2-6. Sacramento River at Freeport, Monthly Averaged Daily Minimum Elevation

Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	2.6	6.3	11.9	11.1	13.5	12.7	8.5	4.3	2.5	3.2	2.4	2.6
20%	1.7	5.0	3.7	9.1	12.4	10.1	3.3	1.9	1.6	2.8	2.2	1.7
30%	1.4	2.0	2.8	6.6	7.0	8.0	2.6	1.8	1.5	2.8	2.1	1.7
40%	1.2	1.3	2.4	3.5	5.6	6.0	1.9	1.6	1.4	2.7	2.0	1.6
50%	1.2	1.2	2.1	3.5	3.7	4.7	1.7	1.4	1.4	2.7	1.8	1.3
60%	1.1	1.1	1.8	2.7	1.9	4.4	1.5	1.1	1.4	2.7	1.6	1.2
70%	1.0	1.0	1.6	1.8	1.8	2.8	1.4	0.9	1.1	2.5	1.6	1.2
80%	0.9	0.9	1.4	1.6	1.7	1.8	1.3	0.8	0.9	2.2	1.5	0.9
90%	0.7	0.6	0.9	1.2	0.9	1.1	1.0	0.5	0.8	1.9	1.2	0.9
Long Term												
Full Simulation Period[a]	1.4	2.6	3.9	4.9	5.7	6.1	3.3	2.1	1.9	2.6	1.8	1.6
Water Year Types[b]												
Wet (31%)	2.2	5.9	10.2	8.7	11.7	11.7	7.2	4.8	3.9	3.2	2.1	2.9
Above Normal (25%)	0.9	1.3	2.5	10.9	10.4	9.1	4.2	2.4	1.6	2.3	1.8	1.6
Below Normal (6%)	1.7	1.1	1.0	3.5	5.6	4.8	1.9	1.9	1.6	2.8	2.0	1.3
Dry (13%)	1.1	2.0	2.1	2.1	2.5	4.4	1.9	1.3	1.5	2.7	2.2	1.4
Critical (25%)	1.2	1.1	1.6	2.1	1.4	1.9	1.1	0.6	0.8	2.2	1.3	0.9

Alternative 4 H2 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	3.1	5.1	11.4	10.7	12.7	11.7	7.8	3.6	3.1	3.7	3.0	2.7
20%	3.0	3.9	3.8	9.2	11.7	9.6	4.5	3.5	2.9	3.4	2.8	2.6
30%	2.8	2.2	3.4	6.1	6.6	7.5	4.1	2.9	2.7	3.3	2.7	2.5
40%	2.3	2.1	3.3	3.8	4.5	4.4	3.1	2.9	2.5	3.1	2.6	2.5
50%	2.3	2.1	2.8	3.5	3.6	4.3	2.6	2.5	2.5	3.1	2.6	2.4
60%	2.2	2.0	2.4	3.4	2.6	3.7	2.5	2.3	2.4	2.9	2.5	2.3
70%	2.1	2.0	2.2	3.1	2.4	2.9	2.4	2.2	2.3	2.5	2.4	2.3
80%	2.0	1.9	2.2	2.7	2.3	2.3	2.3	1.9	2.2	2.4	2.3	2.2
90%	2.0	1.9	2.0	2.3	1.9	2.1	2.2	1.7	2.2	2.4	2.2	2.2
Long Term												
Full Simulation Period[a]	2.4	3.0	4.5	5.3	5.7	5.8	4.1	2.8	2.7	3.0	2.6	2.5
Water Year Types[b]												
Wet (31%)	2.5	5.3	10.0	8.3	11.0	10.5	7.7	3.9	3.2	3.2	2.6	2.7
Above Normal (25%)	2.6	2.0	3.3	10.5	10.3	8.5	4.7	3.1	2.4	2.9	2.6	2.2
Below Normal (6%)	2.0	2.0	2.1	3.9	4.5	4.3	2.7	2.3	2.9	2.3	2.1	2.0
Dry (13%)	2.1	2.4	2.7	2.7	2.9	4.2	2.8	2.7	2.7	3.4	2.9	2.4
Critical (25%)	2.7	2.1	2.4	3.1	2.2	2.6	2.2	2.0	2.2	2.8	2.5	2.5

Alternative 4 H2 (LLT) minus Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.4	**-1.2**	**-0.4**	**-0.5**	**-0.8**	**-1.0**	**-0.7**	**-0.7**	0.7	0.4	0.6	0.1
20%	1.3	**-1.2**	0.1	0.0	**-0.8**	**-0.5**	1.1	1.6	1.3	0.6	0.6	0.8
30%	1.4	0.3	0.6	**-0.5**	**-0.4**	**-0.5**	1.5	1.2	1.2	0.6	0.6	0.8
40%	1.1	0.8	0.9	0.3	**-1.1**	**-1.7**	1.3	1.3	1.1	0.4	0.6	0.9
50%	1.1	0.9	0.7	0.0	**-0.1**	**-0.4**	0.9	1.1	1.1	0.4	0.7	1.1
60%	1.2	0.9	0.6	0.7	0.7	**-0.7**	1.1	1.2	1.0	0.2	0.9	1.1
70%	1.1	1.0	0.6	1.3	0.6	0.1	1.0	1.2	1.2	0.0	0.9	1.1
80%	1.1	1.0	0.8	1.1	0.6	0.5	1.0	1.1	1.4	0.3	0.8	1.3
90%	1.3	1.2	1.1	1.2	0.9	1.1	1.3	1.3	1.4	0.5	1.1	1.3
Long Term												
Full Simulation Period[a]	1.0	0.4	0.5	0.3	0.1	**-0.3**	0.8	0.7	0.8	0.4	0.8	0.8
Water Year Types[b]												
Wet (31%)	0.3	**-0.6**	**-0.1**	**-0.4**	**-0.7**	**-1.2**	0.5	**-0.9**	**-0.6**	**-0.1**	0.5	**-0.1**
Above Normal (25%)	1.7	0.6	0.9	**-0.5**	**-0.1**	**-0.7**	0.5	0.7	0.8	0.5	0.8	0.5
Below Normal (6%)	0.3	0.8	1.1	0.4	**-1.1**	**-0.5**	0.8	0.4	1.3	**-0.5**	0.1	0.7
Dry (13%)	1.0	0.4	0.6	0.5	0.4	**-0.2**	0.9	1.4	1.2	0.7	0.7	1.0
Critical (25%)	1.5	1.0	0.8	1.1	0.7	0.7	1.1	1.4	1.4	0.5	1.2	1.6

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-29-2-7. Sacramento River at Freeport, Monthly Averaged Daily Minimum Elevation

Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.6	6.3	11.9	11.1	13.5	12.7	8.5	4.3	2.5	3.2	2.4	2.6
20%	1.7	5.0	3.7	9.1	12.4	10.1	3.3	1.9	1.6	2.8	2.2	1.7
30%	1.4	2.0	2.8	6.6	7.0	8.0	2.6	1.8	1.5	2.8	2.1	1.7
40%	1.2	1.3	2.4	3.5	5.6	6.0	1.9	1.6	1.4	2.7	2.0	1.6
50%	1.2	1.2	2.1	3.5	3.7	4.7	1.7	1.4	1.4	2.7	1.8	1.3
60%	1.1	1.1	1.8	2.7	1.9	4.4	1.5	1.1	1.4	2.7	1.6	1.2
70%	1.0	1.0	1.6	1.8	1.8	2.8	1.4	0.9	1.1	2.5	1.6	1.2
80%	0.9	0.9	1.4	1.6	1.7	1.8	1.3	0.8	0.9	2.2	1.5	0.9
90%	0.7	0.6	0.9	1.2	0.9	1.1	1.0	0.5	0.8	1.9	1.2	0.9
Long Term												
Full Simulation Period[a]	1.4	2.6	3.9	4.9	5.7	6.1	3.3	2.1	1.9	2.6	1.8	1.6
Water Year Types[b]												
Wet (31%)	2.2	5.9	10.2	8.7	11.7	11.7	7.2	4.8	3.9	3.2	2.1	2.9
Above Normal (25%)	0.9	1.3	2.5	10.9	10.4	9.1	4.2	2.4	1.6	2.3	1.8	1.6
Below Normal (6%)	1.7	1.1	1.0	3.5	5.6	4.8	1.9	1.9	1.6	2.8	2.0	1.3
Dry (13%)	1.1	2.0	2.1	2.1	2.5	4.4	1.9	1.3	1.5	2.7	2.2	1.4
Critical (25%)	1.2	1.1	1.6	2.1	1.4	1.9	1.1	0.6	0.8	2.2	1.3	0.9

Alternative 4 H3 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.7	4.9	11.0	10.6	12.6	11.7	7.4	3.6	3.3	4.5	3.1	4.3
20%	2.6	3.8	3.4	9.1	11.7	9.6	4.1	2.9	3.0	3.9	2.9	3.8
30%	2.4	2.5	3.3	6.3	6.6	6.9	2.9	2.7	2.9	3.8	2.7	3.0
40%	2.2	2.2	3.3	3.9	4.3	4.3	2.7	2.5	2.8	3.7	2.6	2.8
50%	2.2	2.2	3.1	3.8	3.6	4.2	2.5	2.4	2.6	3.2	2.5	2.6
60%	2.1	2.0	2.7	3.4	2.7	3.7	2.4	2.2	2.5	3.0	2.5	2.5
70%	2.1	2.0	2.5	2.8	2.4	2.8	2.4	2.1	2.4	2.8	2.4	2.4
80%	2.1	1.9	2.3	2.5	2.3	2.3	2.3	2.0	2.3	2.6	2.4	2.3
90%	2.0	1.9	2.1	2.1	1.9	2.2	2.3	1.7	2.2	2.3	2.3	2.3
Long Term												
Full Simulation Period[a]	2.3	3.0	4.5	5.2	5.7	5.7	3.8	2.7	2.8	3.3	2.6	3.0
Water Year Types[b]												
Wet (31%)	2.3	5.1	9.8	8.3	11.0	10.5	7.2	3.7	3.5	3.8	2.6	4.2
Above Normal (25%)	2.7	2.0	3.3	10.1	10.1	8.4	3.5	2.5	2.5	4.1	2.8	3.0
Below Normal (6%)	2.2	2.0	2.0	3.9	4.3	4.0	2.7	2.2	3.0	2.2	2.1	2.2
Dry (13%)	2.1	2.5	2.8	2.6	2.9	3.9	2.8	2.8	2.8	3.6	2.9	2.6
Critical (25%)	2.4	2.2	2.6	3.1	2.2	2.6	2.2	2.0	2.3	2.7	2.4	2.4

Alternative 4 H3 (LLT) minus Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.1	**-1.4**	**-0.9**	**-0.5**	**-0.9**	**-1.0**	**-1.1**	**-0.7**	0.9	1.3	0.6	1.7
20%	0.9	**-1.3**	**-0.4**	0.0	**-0.8**	**-0.5**	0.8	0.9	1.4	1.2	0.7	2.0
30%	1.0	0.6	0.5	**-0.3**	**-0.4**	**-1.1**	0.2	1.0	1.4	1.0	0.6	1.3
40%	1.1	0.9	0.9	0.3	**-1.3**	**-1.7**	0.8	0.9	1.4	1.0	0.6	1.3
50%	1.0	1.0	1.0	0.3	**-0.1**	**-0.6**	0.8	1.1	1.2	0.5	0.7	1.3
60%	1.1	0.9	0.9	0.7	0.7	**-0.7**	1.0	1.1	1.2	0.3	0.8	1.3
70%	1.1	1.1	0.9	1.0	0.6	0.0	1.0	1.2	1.3	0.3	0.8	1.2
80%	1.2	1.0	1.0	0.9	0.6	0.5	1.0	1.2	1.4	0.5	0.8	1.4
90%	1.3	1.2	1.2	1.0	1.0	1.1	1.3	1.3	1.4	0.4	1.1	1.4
Long Term												
Full Simulation Period[a]	0.9	0.4	0.6	0.3	0.0	**-0.4**	0.5	0.6	0.9	0.7	0.8	1.3
Water Year Types[b]												
Wet (31%)	0.1	**-0.7**	**-0.3**	**-0.4**	**-0.7**	**-1.3**	**-0.1**	**-1.1**	**-0.4**	0.6	0.5	1.3
Above Normal (25%)	1.8	0.7	0.8	**-0.8**	**-0.3**	**-0.7**	**-0.7**	0.2	0.9	1.8	0.9	1.3
Below Normal (6%)	0.5	0.9	1.1	0.4	**-1.3**	**-0.8**	0.8	0.3	1.4	**-0.5**	0.1	0.9
Dry (13%)	1.0	0.5	0.7	0.5	0.4	**-0.5**	1.0	1.5	1.4	0.9	0.6	1.2
Critical (25%)	1.2	1.1	1.0	1.0	0.8	0.7	1.1	1.4	1.4	0.5	1.1	1.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-29-2-8. Sacramento River at Freeport, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.6	6.3	11.9	11.1	13.5	12.7	8.5	4.3	2.5	3.2	2.4	2.6
20%	1.7	5.0	3.7	9.1	12.4	10.1	3.3	1.9	1.6	2.8	2.2	1.7
30%	1.4	2.0	2.8	6.6	7.0	8.0	2.6	1.8	1.5	2.8	2.1	1.7
40%	1.2	1.3	2.4	3.5	5.6	6.0	1.9	1.6	1.4	2.7	2.0	1.6
50%	1.2	1.2	2.1	3.5	3.7	4.7	1.7	1.4	1.4	2.7	1.8	1.3
60%	1.1	1.1	1.8	2.7	1.9	4.4	1.5	1.1	1.4	2.7	1.6	1.2
70%	1.0	1.0	1.6	1.8	1.8	2.8	1.4	0.9	1.1	2.5	1.6	1.2
80%	0.9	0.9	1.4	1.6	1.7	1.8	1.3	0.8	0.9	2.2	1.5	0.9
90%	0.7	0.6	0.9	1.2	0.9	1.1	1.0	0.5	0.8	1.9	1.2	0.9
Long Term												
Full Simulation Period[a]	1.4	2.6	3.9	4.9	5.7	6.1	3.3	2.1	1.9	2.6	1.8	1.6
Water Year Types[b]												
Wet (31%)	2.2	5.9	10.2	8.7	11.7	11.7	7.2	4.8	3.9	3.2	2.1	2.9
Above Normal (25%)	0.9	1.3	2.5	10.9	10.4	9.1	4.2	2.4	1.6	2.3	1.8	1.6
Below Normal (6%)	1.7	1.1	1.0	3.5	5.6	4.8	1.9	1.9	1.6	2.8	2.0	1.3
Dry (13%)	1.1	2.0	2.1	2.1	2.5	4.4	1.9	1.3	1.5	2.7	2.2	1.4
Critical (25%)	1.2	1.1	1.6	2.1	1.4	1.9	1.1	0.6	0.8	2.2	1.3	0.9

Alternative 4 H4 (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.9	4.8	11.1	10.7	12.6	11.7	7.8	3.6	3.1	3.6	3.0	4.2
20%	2.8	3.8	3.4	9.2	11.7	9.6	4.5	3.5	2.8	3.4	2.9	4.0
30%	2.6	2.5	3.3	6.1	6.6	7.3	4.1	2.9	2.7	3.2	2.8	3.0
40%	2.4	2.2	3.2	3.8	4.4	4.3	3.2	2.9	2.5	3.1	2.7	2.7
50%	2.3	2.2	2.8	3.5	3.6	4.2	2.6	2.5	2.5	2.9	2.6	2.6
60%	2.3	2.0	2.5	3.1	2.6	3.7	2.5	2.3	2.4	2.7	2.6	2.5
70%	2.2	2.0	2.4	2.5	2.4	2.8	2.3	2.1	2.3	2.6	2.5	2.5
80%	2.0	1.9	2.2	2.3	2.3	2.3	2.3	1.9	2.2	2.5	2.4	2.3
90%	1.9	1.9	2.1	2.1	1.9	2.1	2.2	1.7	2.2	2.4	2.3	2.3
Long Term												
Full Simulation Period[a]	2.4	3.0	4.4	5.1	5.7	5.8	4.1	2.8	2.6	3.0	2.6	2.9
Water Year Types[b]												
Wet (31%)	2.6	5.1	9.9	8.3	11.0	10.5	7.8	3.9	3.2	3.2	2.6	4.2
Above Normal (25%)	2.7	2.0	3.3	10.4	10.2	8.4	4.7	3.1	2.4	2.9	2.6	3.0
Below Normal (6%)	2.3	2.0	2.3	3.9	4.4	4.0	2.7	2.3	2.8	2.3	2.3	2.2
Dry (13%)	2.1	2.4	2.6	2.6	2.9	4.1	2.7	2.7	2.6	3.2	2.9	2.4
Critical (25%)	2.4	2.3	2.4	2.7	2.2	2.5	2.2	2.0	2.2	2.8	2.5	2.5

Alternative 4 H4 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.3	-1.5	-0.8	-0.5	-0.9	-1.0	-0.7	-0.7	0.6	0.3	0.5	1.6
20%	1.1	-1.3	-0.3	0.1	-0.8	-0.5	1.1	1.5	1.2	0.6	0.7	2.2
30%	1.2	0.6	0.6	-0.5	-0.4	-0.6	1.5	1.1	1.2	0.5	0.7	1.3
40%	1.2	0.9	0.8	0.3	-1.2	-1.7	1.3	1.3	1.1	0.4	0.6	1.1
50%	1.1	1.0	0.7	0.0	-0.1	-0.5	0.9	1.1	1.1	0.2	0.8	1.2
60%	1.2	0.9	0.8	0.4	0.7	-0.7	1.0	1.2	1.0	0.1	1.0	1.3
70%	1.2	1.0	0.7	0.7	0.6	0.0	1.0	1.2	1.2	0.1	0.9	1.2
80%	1.1	1.0	0.9	0.8	0.6	0.5	1.0	1.1	1.4	0.3	0.9	1.4
90%	1.3	1.2	1.2	0.9	1.0	1.1	1.3	1.3	1.4	0.5	1.1	1.4
Long Term												
Full Simulation Period[a]	1.0	0.4	0.5	0.2	0.0	-0.3	0.8	0.7	0.7	0.3	0.8	1.3
Water Year Types[b]												
Wet (31%)	0.4	-0.7	-0.3	-0.4	-0.7	-1.2	0.5	-0.9	-0.6	-0.1	0.5	1.3
Above Normal (25%)	1.8	0.6	0.8	-0.5	-0.2	-0.7	0.5	0.7	0.8	0.5	0.8	1.3
Below Normal (6%)	0.6	0.9	1.3	0.4	-1.2	-0.8	0.8	0.4	1.2	-0.5	0.3	0.9
Dry (13%)	1.0	0.5	0.5	0.5	0.4	-0.2	0.9	1.4	1.2	0.5	0.6	1.0
Critical (25%)	1.3	1.1	0.8	0.6	0.8	0.6	1.1	1.4	1.4	0.5	1.2	1.6

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-29-2-9. Sacramento River at Freeport, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.6	6.3	11.9	11.1	13.5	12.7	8.5	4.3	2.5	3.2	2.4	2.6
20%	1.7	5.0	3.7	9.1	12.4	10.1	3.3	1.9	1.6	2.8	2.2	1.7
30%	1.4	2.0	2.8	6.6	7.0	8.0	2.6	1.8	1.5	2.8	2.1	1.7
40%	1.2	1.3	2.4	3.5	5.6	6.0	1.9	1.6	1.4	2.7	2.0	1.6
50%	1.2	1.2	2.1	3.5	3.7	4.7	1.7	1.4	1.4	2.7	1.8	1.3
60%	1.1	1.1	1.8	2.7	1.9	4.4	1.5	1.1	1.4	2.7	1.6	1.2
70%	1.0	1.0	1.6	1.8	1.8	2.8	1.4	0.9	1.1	2.5	1.6	1.2
80%	0.9	0.9	1.4	1.6	1.7	1.8	1.3	0.8	0.9	2.2	1.5	0.9
90%	0.7	0.6	0.9	1.2	0.9	1.1	1.0	0.5	0.8	1.9	1.2	0.9
Long Term												
Full Simulation Period[a]	1.4	2.6	3.9	4.9	5.7	6.1	3.3	2.1	1.9	2.6	1.8	1.6
Water Year Types[b]												
Wet (31%)	2.2	5.9	10.2	8.7	11.7	11.7	7.2	4.8	3.9	3.2	2.1	2.9
Above Normal (25%)	0.9	1.3	2.5	10.9	10.4	9.1	4.2	2.4	1.6	2.3	1.8	1.6
Below Normal (6%)	1.7	1.1	1.0	3.5	5.6	4.8	1.9	1.9	1.6	2.8	2.0	1.3
Dry (13%)	1.1	2.0	2.1	2.1	2.5	4.4	1.9	1.3	1.5	2.7	2.2	1.4
Critical (25%)	1.2	1.1	1.6	2.1	1.4	1.9	1.1	0.6	0.8	2.2	1.3	0.9

Alternative 5 (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.1	5.2	11.8	11.3	13.4	12.5	8.2	3.7	3.4	4.3	3.2	4.5
20%	2.7	3.9	3.6	9.8	12.5	10.3	3.9	2.8	3.0	4.1	3.1	4.0
30%	2.7	2.8	3.5	6.6	7.2	7.6	3.0	2.6	2.9	3.9	2.9	3.0
40%	2.4	2.4	3.3	4.1	4.7	4.9	2.8	2.3	2.8	3.8	2.7	2.5
50%	2.4	2.3	3.1	3.8	3.9	4.5	2.7	2.3	2.8	3.5	2.6	2.5
60%	2.3	2.2	2.9	3.4	2.8	3.8	2.6	2.3	2.7	3.3	2.5	2.4
70%	2.3	2.2	2.7	3.0	2.7	3.1	2.4	2.1	2.5	3.1	2.4	2.3
80%	2.2	2.1	2.3	2.7	2.5	2.5	2.4	2.0	2.3	3.0	2.3	2.3
90%	2.1	2.0	2.1	2.3	1.9	2.3	2.3	1.8	2.3	2.4	2.3	2.2
Long Term												
Full Simulation Period[a]	2.5	3.2	4.7	5.5	6.1	6.1	4.0	2.7	2.9	3.5	2.7	3.0
Water Year Types[b]												
Wet (31%)	2.6	5.7	10.4	8.9	11.7	11.2	7.7	4.0	3.7	3.8	2.9	4.5
Above Normal (25%)	2.3	2.2	3.5	10.9	10.9	9.0	3.9	2.5	2.9	3.9	2.7	3.0
Below Normal (6%)	2.3	2.3	2.7	4.1	4.7	4.4	2.7	2.3	3.1	3.3	2.3	2.2
Dry (13%)	2.3	2.6	2.9	2.8	3.1	4.3	2.8	2.7	2.7	3.6	2.9	2.3
Critical (25%)	2.7	2.3	2.5	3.1	2.3	2.7	2.4	1.9	2.3	3.0	2.4	2.4

Alternative 5 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.5	**-1.1**	**-0.1**	0.1	**-0.1**	**-0.3**	**-0.3**	**-0.6**	0.9	1.1	0.8	2.0
20%	1.1	**-1.1**	**-0.1**	0.7	0.0	0.2	0.6	0.9	1.5	1.3	0.9	2.3
30%	1.4	0.8	0.7	**0.0**	0.2	**-0.4**	0.4	0.8	1.5	1.1	0.8	1.3
40%	1.3	1.1	0.9	0.6	**-0.9**	**-1.1**	0.9	0.7	1.4	1.1	0.6	0.9
50%	1.2	1.2	1.0	0.4	0.2	**-0.2**	1.0	0.9	1.3	0.8	0.7	1.1
60%	1.3	1.1	1.2	0.7	0.9	**-0.6**	1.1	1.1	1.4	0.7	0.9	1.1
70%	1.3	1.2	1.0	1.2	0.9	0.2	1.0	1.2	1.4	0.7	0.8	1.1
80%	1.3	1.1	1.0	1.1	0.8	0.7	1.1	1.2	1.5	0.9	0.8	1.4
90%	1.4	1.3	1.2	1.1	1.0	1.2	1.3	1.3	1.5	0.5	1.1	1.3
Long Term												
Full Simulation Period[a]	1.1	0.6	0.8	0.6	0.4	0.0	0.8	0.6	1.0	0.8	0.8	1.3
Water Year Types[b]												
Wet (31%)	0.4	**-0.2**	0.2	0.2	0.0	**-0.5**	0.4	**-0.8**	**-0.1**	0.5	0.8	1.6
Above Normal (25%)	1.4	0.9	1.0	**0.0**	0.4	**-0.2**	**-0.4**	0.1	1.2	1.5	0.8	1.4
Below Normal (6%)	0.7	1.1	1.7	0.6	**-0.9**	**-0.5**	0.8	0.3	1.5	0.6	0.3	0.8
Dry (13%)	1.1	0.6	0.8	0.7	0.6	**-0.1**	1.0	1.3	1.3	1.0	0.7	0.9
Critical (25%)	1.5	1.2	1.0	1.0	0.9	0.8	1.3	1.4	1.4	0.8	1.1	1.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-29-2-10. Sacramento River at Freeport, Monthly Averaged Daily Minimum Elevation

Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.6	6.3	11.9	11.1	13.5	12.7	8.5	4.3	2.5	3.2	2.4	2.6
20%	1.7	5.0	3.7	9.1	12.4	10.1	3.3	1.9	1.6	2.8	2.2	1.7
30%	1.4	2.0	2.8	6.6	7.0	8.0	2.6	1.8	1.5	2.8	2.1	1.7
40%	1.2	1.3	2.4	3.5	5.6	6.0	1.9	1.6	1.4	2.7	2.0	1.6
50%	1.2	1.2	2.1	3.5	3.7	4.7	1.7	1.4	1.4	2.7	1.8	1.3
60%	1.1	1.1	1.8	2.7	1.9	4.4	1.5	1.1	1.4	2.7	1.6	1.2
70%	1.0	1.0	1.6	1.8	1.8	2.8	1.4	0.9	1.1	2.5	1.6	1.2
80%	0.9	0.9	1.4	1.6	1.7	1.8	1.3	0.8	0.9	2.2	1.5	0.9
90%	0.7	0.6	0.9	1.2	0.9	1.1	1.0	0.5	0.8	1.9	1.2	0.9
Long Term												
Full Simulation Period[a]	1.4	2.6	3.9	4.9	5.7	6.1	3.3	2.1	1.9	2.6	1.8	1.6
Water Year Types[b]												
Wet (31%)	2.2	5.9	10.2	8.7	11.7	11.7	7.2	4.8	3.9	3.2	2.1	2.9
Above Normal (25%)	0.9	1.3	2.5	10.9	10.4	9.1	4.2	2.4	1.6	2.3	1.8	1.6
Below Normal (6%)	1.7	1.1	1.0	3.5	5.6	4.8	1.9	1.9	1.6	2.8	2.0	1.3
Dry (13%)	1.1	2.0	2.1	2.1	2.5	4.4	1.9	1.3	1.5	2.7	2.2	1.4
Critical (25%)	1.2	1.1	1.6	2.1	1.4	1.9	1.1	0.6	0.8	2.2	1.3	0.9

Alternative 6A,6B,6C (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.2	4.7	11.1	10.0	12.1	11.2	7.0	3.1	2.9	2.8	2.5	3.2
20%	1.9	3.5	3.3	8.7	11.2	9.1	3.8	2.6	2.7	2.6	2.3	2.7
30%	1.9	2.4	3.2	5.8	6.2	6.6	2.8	2.6	2.6	2.3	2.2	2.2
40%	1.9	2.0	2.9	3.5	4.2	4.1	2.5	2.5	2.4	2.2	2.2	2.1
50%	1.9	1.9	2.7	3.3	3.4	3.9	2.4	2.2	2.4	2.2	2.2	2.1
60%	1.8	1.8	2.3	2.8	3.1	3.4	2.4	2.1	2.3	2.2	2.1	2.1
70%	1.8	1.7	2.1	2.5	2.3	2.7	2.3	2.1	2.3	2.1	2.1	2.0
80%	1.8	1.7	2.0	2.1	2.2	2.2	2.2	1.9	2.2	2.1	2.1	2.0
90%	1.7	1.7	1.9	2.0	1.8	1.9	2.2	1.7	2.2	2.1	2.0	1.9
Long Term												
Full Simulation Period[a]	1.9	2.7	4.3	4.8	5.5	5.4	3.6	2.5	2.5	2.3	2.2	2.3
Water Year Types[b]												
Wet (31%)	2.1	4.8	9.7	7.9	10.6	10.1	6.9	3.5	3.0	2.8	2.4	3.1
Above Normal (25%)	1.8	1.7	3.0	9.8	9.6	7.9	3.3	2.5	2.4	2.4	2.1	2.1
Below Normal (6%)	1.9	1.7	2.0	3.7	4.2	3.7	2.5	2.3	2.9	2.1	2.0	1.8
Dry (13%)	1.8	2.3	2.5	2.5	2.7	3.8	2.7	2.4	2.5	2.1	2.1	2.0
Critical (25%)	1.9	2.0	2.2	2.4	2.3	2.3	2.2	1.9	2.2	2.2	2.2	2.1

Alternative 6A,6B,6C (LLT) minus Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.4	-1.6	-0.8	-1.1	-1.4	-1.5	-1.5	-1.2	0.4	-0.4	0.0	0.6
20%	0.3	-1.5	-0.4	-0.4	-1.2	-0.9	0.5	0.7	1.1	-0.2	0.1	0.9
30%	0.6	0.5	0.4	-0.8	-0.8	-1.4	0.1	0.8	1.1	-0.5	0.1	0.5
40%	0.7	0.6	0.5	0.0	-1.3	-2.0	0.6	0.9	1.0	-0.5	0.1	0.5
50%	0.7	0.7	0.6	-0.1	-0.3	-0.8	0.7	0.9	1.0	-0.5	0.3	0.7
60%	0.7	0.7	0.5	0.1	1.2	-1.0	0.9	1.0	1.0	-0.5	0.5	0.8
70%	0.8	0.8	0.5	0.7	0.5	-0.1	0.9	1.1	1.1	-0.3	0.5	0.8
80%	0.9	0.8	0.6	0.5	0.5	0.4	0.9	1.1	1.4	0.0	0.6	1.0
90%	1.1	1.0	1.0	0.8	0.9	0.8	1.2	1.3	1.4	0.2	0.9	1.0
Long Term												
Full Simulation Period[a]	0.5	0.2	0.3	-0.1	-0.2	-0.7	0.4	0.4	0.6	-0.3	0.4	0.7
Water Year Types[b]												
Wet (31%)	-0.2	-1.1	-0.4	-0.8	-1.2	-1.7	-0.3	-1.3	-0.9	-0.5	0.3	0.3
Above Normal (25%)	0.9	0.4	0.5	-1.1	-0.8	-1.2	-0.9	0.2	0.7	0.1	0.3	0.4
Below Normal (6%)	0.3	0.6	1.0	0.2	-1.3	-1.2	0.6	0.3	1.3	-0.6	0.0	0.5
Dry (13%)	0.7	0.3	0.4	0.4	0.1	-0.6	0.8	1.1	1.0	-0.6	-0.1	0.6
Critical (25%)	0.7	0.9	0.6	0.4	0.8	0.4	1.0	1.3	1.3	-0.1	0.9	1.1

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-29-2-11. Sacramento River at Freeport, Monthly Averaged Daily Minimum Elevation

Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	2.6	6.3	11.9	11.1	13.5	12.7	8.5	4.3	2.5	3.2	2.4	2.6
20%	1.7	5.0	3.7	9.1	12.4	10.1	3.3	1.9	1.6	2.8	2.2	1.7
30%	1.4	2.0	2.8	6.6	7.0	8.0	2.6	1.8	1.5	2.8	2.1	1.7
40%	1.2	1.3	2.4	3.5	5.6	6.0	1.9	1.6	1.4	2.7	2.0	1.6
50%	1.2	1.2	2.1	3.5	3.7	4.7	1.7	1.4	1.4	2.7	1.8	1.3
60%	1.1	1.1	1.8	2.7	1.9	4.4	1.5	1.1	1.4	2.7	1.6	1.2
70%	1.0	1.0	1.6	1.8	1.8	2.8	1.4	0.9	1.1	2.5	1.6	1.2
80%	0.9	0.9	1.4	1.6	1.7	1.8	1.3	0.8	0.9	2.2	1.5	0.9
90%	0.7	0.6	0.9	1.2	0.9	1.1	1.0	0.5	0.8	1.9	1.2	0.9
Long Term												
Full Simulation Period[a]	1.4	2.6	3.9	4.9	5.7	6.1	3.3	2.1	1.9	2.6	1.8	1.6
Water Year Types[b]												
Wet (31%)	2.2	5.9	10.2	8.7	11.7	11.7	7.2	4.8	3.9	3.2	2.1	2.9
Above Normal (25%)	0.9	1.3	2.5	10.9	10.4	9.1	4.2	2.4	1.6	2.3	1.8	1.6
Below Normal (6%)	1.7	1.1	1.0	3.5	5.6	4.8	1.9	1.9	1.6	2.8	2.0	1.3
Dry (13%)	1.1	2.0	2.1	2.1	2.5	4.4	1.9	1.3	1.5	2.7	2.2	1.4
Critical (25%)	1.2	1.1	1.6	2.1	1.4	1.9	1.1	0.6	0.8	2.2	1.3	0.9

Alternative 7 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	2.5	4.9	11.4	10.4	12.6	11.7	7.6	3.4	2.9	4.3	3.1	4.2
20%	2.3	3.7	3.4	9.2	11.6	9.4	3.9	2.6	2.7	3.8	3.0	3.8
30%	2.2	2.5	3.3	6.0	6.5	6.7	2.9	2.5	2.6	3.7	2.9	2.9
40%	2.1	2.1	3.0	3.8	4.2	4.3	2.7	2.4	2.6	3.5	2.8	2.6
50%	2.1	2.1	2.8	3.6	3.7	4.1	2.5	2.2	2.6	3.4	2.8	2.4
60%	2.1	2.0	2.4	3.1	3.4	3.7	2.5	2.1	2.5	3.3	2.7	2.3
70%	2.0	2.0	2.2	2.6	2.6	3.0	2.4	2.1	2.5	3.1	2.7	2.3
80%	2.0	1.9	2.1	2.2	2.4	2.4	2.3	2.0	2.5	2.8	2.7	2.3
90%	1.9	1.8	2.0	2.2	1.9	2.0	2.2	1.9	2.4	2.7	2.6	2.3
Long Term												
Full Simulation Period[a]	2.1	2.9	4.4	5.1	5.7	5.7	3.8	2.6	2.7	3.4	2.8	2.9
Water Year Types[b]												
Wet (31%)	2.4	5.2	10.1	8.2	11.0	10.4	7.2	3.7	3.4	3.7	2.9	4.1
Above Normal (25%)	1.9	2.1	3.1	10.3	10.0	8.1	3.6	2.5	2.6	3.6	2.7	2.9
Below Normal (6%)	2.1	2.0	2.1	3.9	4.2	4.2	2.8	2.3	2.7	3.5	2.8	2.6
Dry (13%)	2.1	2.4	2.6	2.7	2.9	4.0	2.8	2.4	2.6	3.8	3.0	2.3
Critical (25%)	2.1	2.1	2.3	2.6	2.4	2.5	2.2	2.0	2.4	2.7	2.6	2.4

Alternative 7 (LLT) minus Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	**-0.1**	**-1.4**	**-0.4**	**-0.7**	**-0.9**	**-1.0**	**-0.9**	**-0.9**	0.4	1.0	0.6	1.6
20%	0.7	**-1.3**	**-0.3**	0.1	**-0.9**	**-0.7**	0.6	0.7	1.2	1.1	0.8	2.0
30%	0.8	0.6	0.6	**-0.6**	**-0.5**	**-1.3**	0.2	0.7	1.2	0.9	0.7	1.2
40%	0.9	0.8	0.6	0.3	**-1.4**	**-1.7**	0.9	0.8	1.2	0.8	0.8	1.0
50%	0.9	0.9	0.7	0.1	**-0.1**	**-0.6**	0.8	0.8	1.2	0.7	0.9	1.1
60%	1.0	0.9	0.7	0.4	1.4	**-0.8**	1.0	1.0	1.2	0.7	1.1	1.1
70%	1.0	1.0	0.6	0.8	0.8	0.2	1.0	1.1	1.4	0.6	1.2	1.1
80%	1.1	0.9	0.7	0.6	0.6	0.6	1.0	1.2	1.6	0.6	1.2	1.4
90%	1.2	1.1	1.1	1.0	1.0	1.0	1.3	1.4	1.6	0.8	1.5	1.4
Long Term												
Full Simulation Period[a]	0.7	0.4	0.5	0.1	0.1	**-0.4**	0.5	0.5	0.8	0.8	1.0	1.2
Water Year Types[b]												
Wet (31%)	0.1	**-0.7**	**-0.1**	**-0.5**	**-0.8**	**-1.3**	**0.0**	**-1.1**	**-0.5**	0.5	0.8	1.3
Above Normal (25%)	1.0	0.7	0.6	**-0.6**	**-0.4**	**-1.1**	**-0.6**	0.2	0.9	1.2	0.9	1.2
Below Normal (6%)	0.5	0.9	1.1	0.4	**-1.4**	**-0.7**	0.9	0.3	1.2	0.7	0.8	1.2
Dry (13%)	0.9	0.5	0.5	0.6	0.4	**-0.4**	0.9	1.1	1.1	1.1	0.7	0.9
Critical (25%)	1.0	1.0	0.8	0.5	1.0	0.6	1.1	1.5	1.6	0.5	1.3	1.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-29-2-12. Sacramento River at Freeport, Monthly Averaged Daily Minimum Elevation

Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	2.6	6.3	11.9	11.1	13.5	12.7	8.5	4.3	2.5	3.2	2.4	2.6
20%	1.7	5.0	3.7	9.1	12.4	10.1	3.3	1.9	1.6	2.8	2.2	1.7
30%	1.4	2.0	2.8	6.6	7.0	8.0	2.6	1.8	1.5	2.8	2.1	1.7
40%	1.2	1.3	2.4	3.5	5.6	6.0	1.9	1.6	1.4	2.7	2.0	1.6
50%	1.2	1.2	2.1	3.5	3.7	4.7	1.7	1.4	1.4	2.7	1.8	1.3
60%	1.1	1.1	1.8	2.7	1.9	4.4	1.5	1.1	1.4	2.7	1.6	1.2
70%	1.0	1.0	1.6	1.8	1.8	2.8	1.4	0.9	1.1	2.5	1.6	1.2
80%	0.9	0.9	1.4	1.6	1.7	1.8	1.3	0.8	0.9	2.2	1.5	0.9
90%	0.7	0.6	0.9	1.2	0.9	1.1	1.0	0.5	0.8	1.9	1.2	0.9
Long Term												
Full Simulation Period[a]	1.4	2.6	3.9	4.9	5.7	6.1	3.3	2.1	1.9	2.6	1.8	1.6
Water Year Types[b]												
Wet (31%)	2.2	5.9	10.2	8.7	11.7	11.7	7.2	4.8	3.9	3.2	2.1	2.9
Above Normal (25%)	0.9	1.3	2.5	10.9	10.4	9.1	4.2	2.4	1.6	2.3	1.8	1.6
Below Normal (6%)	1.7	1.1	1.0	3.5	5.6	4.8	1.9	1.9	1.6	2.8	2.0	1.3
Dry (13%)	1.1	2.0	2.1	2.1	2.5	4.4	1.9	1.3	1.5	2.7	2.2	1.4
Critical (25%)	1.2	1.1	1.6	2.1	1.4	1.9	1.1	0.6	0.8	2.2	1.3	0.9

Alternative 8 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	2.5	5.3	11.5	10.5	12.5	11.7	8.1	4.0	2.8	3.1	2.8	3.9
20%	2.2	3.9	3.5	9.2	11.5	9.3	4.6	3.2	2.6	2.9	2.7	3.7
30%	2.2	2.6	3.3	6.4	7.0	7.5	3.3	2.9	2.6	2.8	2.7	2.8
40%	2.1	2.2	3.0	4.2	4.5	4.7	3.2	2.5	2.6	2.7	2.7	2.4
50%	2.1	2.1	2.8	3.9	4.1	4.6	3.2	2.5	2.5	2.7	2.7	2.3
60%	2.0	2.1	2.4	3.4	3.6	4.1	2.9	2.4	2.5	2.7	2.6	2.3
70%	2.0	2.0	2.2	2.7	2.8	3.4	2.7	2.4	2.4	2.6	2.6	2.3
80%	1.9	1.9	2.1	2.3	2.4	2.8	2.6	2.3	2.4	2.5	2.5	2.2
90%	1.9	1.8	2.0	2.2	2.0	2.5	2.4	2.0	2.3	2.5	2.5	2.2
Long Term												
Full Simulation Period[a]	2.1	3.0	4.4	5.2	5.9	6.0	4.2	3.0	2.7	2.7	2.7	2.8
Water Year Types[b]												
Wet (31%)	2.3	5.3	10.1	8.4	10.9	10.4	7.5	4.4	3.5	3.1	2.8	4.0
Above Normal (25%)	2.0	2.0	3.1	10.5	10.1	8.3	4.2	2.9	2.5	2.6	2.7	2.8
Below Normal (6%)	2.1	2.0	2.1	4.2	5.3	4.6	3.2	3.2	2.6	2.5	2.6	2.3
Dry (13%)	2.0	2.5	2.6	2.8	3.3	4.7	3.4	2.6	2.5	2.7	2.6	2.3
Critical (25%)	2.1	2.2	2.3	2.7	2.5	2.8	2.4	2.2	2.4	2.6	2.5	2.3

Alternative 8 (LLT) minus Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	**-0.2**	**-1.0**	**-0.4**	**-0.6**	**-1.0**	**-1.0**	**-0.4**	**-0.3**	0.3	**-0.1**	0.3	1.4
20%	0.6	**-1.2**	**-0.3**	0.1	**-1.0**	**-0.8**	1.2	1.2	1.0	0.1	0.5	2.0
30%	0.8	0.6	0.5	**-0.3**	0.0	**-0.5**	0.7	1.1	1.1	0.0	0.6	1.1
40%	0.9	0.9	0.6	0.6	**-1.1**	**-1.3**	1.4	0.9	1.1	0.0	0.7	0.8
50%	0.9	1.0	0.8	0.4	0.3	**-0.1**	1.4	1.1	1.1	0.0	0.8	1.0
60%	0.9	0.9	0.7	0.7	1.6	**-0.3**	1.5	1.3	1.1	**0.0**	1.0	1.1
70%	1.0	1.0	0.6	0.9	1.0	0.6	1.3	1.5	1.3	0.1	1.0	1.0
80%	1.1	1.0	0.7	0.7	0.7	1.0	1.3	1.5	1.6	0.4	1.0	1.3
90%	1.2	1.2	1.1	1.0	1.1	1.4	1.4	1.5	1.5	0.6	1.3	1.3
Long Term												
Full Simulation Period[a]	0.7	0.5	0.5	0.3	0.3	**-0.1**	0.9	0.9	0.8	0.1	0.8	1.1
Water Year Types[b]												
Wet (31%)	0.1	**-0.6**	**-0.1**	**-0.3**	**-0.8**	**-1.3**	0.2	**-0.4**	**-0.4**	**-0.2**	0.7	1.1
Above Normal (25%)	1.1	0.6	0.6	**-0.4**	**-0.3**	**-0.9**	**-0.1**	0.5	0.9	0.3	0.9	1.1
Below Normal (6%)	0.5	0.9	1.1	0.7	**-0.3**	**-0.2**	1.4	1.2	1.0	**-0.3**	0.5	0.9
Dry (13%)	0.9	0.5	0.5	0.7	0.7	0.4	1.5	1.3	1.0	0.0	0.4	0.9
Critical (25%)	0.9	1.1	0.7	0.7	1.1	0.9	1.3	1.7	1.6	0.4	1.2	1.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-29-2-13. Sacramento River at Freeport, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.6	6.3	11.9	11.1	13.5	12.7	8.5	4.3	2.5	3.2	2.4	2.6
20%	1.7	5.0	3.7	9.1	12.4	10.1	3.3	1.9	1.6	2.8	2.2	1.7
30%	1.4	2.0	2.8	6.6	7.0	8.0	2.6	1.8	1.5	2.8	2.1	1.7
40%	1.2	1.3	2.4	3.5	5.6	6.0	1.9	1.6	1.4	2.7	2.0	1.6
50%	1.2	1.2	2.1	3.5	3.7	4.7	1.7	1.4	1.4	2.7	1.8	1.3
60%	1.1	1.1	1.8	2.7	1.9	4.4	1.5	1.1	1.4	2.7	1.6	1.2
70%	1.0	1.0	1.6	1.8	1.8	2.8	1.4	0.9	1.1	2.5	1.6	1.2
80%	0.9	0.9	1.4	1.6	1.7	1.8	1.3	0.8	0.9	2.2	1.5	0.9
90%	0.7	0.6	0.9	1.2	0.9	1.1	1.0	0.5	0.8	1.9	1.2	0.9
Long Term												
Full Simulation Period[a]	1.4	2.6	3.9	4.9	5.7	6.1	3.3	2.1	1.9	2.6	1.8	1.6
Water Year Types[b]												
Wet (31%)	2.2	5.9	10.2	8.7	11.7	11.7	7.2	4.8	3.9	3.2	2.1	2.9
Above Normal (25%)	0.9	1.3	2.5	10.9	10.4	9.1	4.2	2.4	1.6	2.3	1.8	1.6
Below Normal (6%)	1.7	1.1	1.0	3.5	5.6	4.8	1.9	1.9	1.6	2.8	2.0	1.3
Dry (13%)	1.1	2.0	2.1	2.1	2.5	4.4	1.9	1.3	1.5	2.7	2.2	1.4
Critical (25%)	1.2	1.1	1.6	2.1	1.4	1.9	1.1	0.6	0.8	2.2	1.3	0.9

Alternative 9 (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.1	5.6	12.2	11.9	14.0	13.1	8.6	4.1	3.3	4.2	3.4	5.5
20%	3.0	4.3	3.8	10.5	13.0	10.9	4.1	3.3	3.0	4.0	3.4	4.7
30%	2.8	3.4	3.6	7.0	7.8	8.0	3.3	3.0	2.9	3.9	3.4	3.8
40%	2.6	2.8	3.3	4.3	5.2	5.4	2.9	2.9	2.8	3.7	3.4	2.8
50%	2.4	2.5	3.1	4.1	4.2	4.9	2.8	2.7	2.8	3.6	3.2	2.5
60%	2.4	2.3	2.9	3.5	3.0	4.1	2.6	2.5	2.8	3.4	2.9	2.4
70%	2.3	2.2	2.8	2.9	2.7	3.2	2.6	2.4	2.6	3.3	2.8	2.3
80%	2.2	2.2	2.6	2.5	2.6	2.6	2.5	2.1	2.4	2.9	2.6	2.3
90%	2.0	2.0	2.4	2.4	2.2	2.4	2.4	2.0	2.4	2.7	2.4	2.3
Long Term												
Full Simulation Period[a]	2.6	3.4	4.9	5.8	6.4	6.5	4.2	3.1	2.9	3.6	3.0	3.3
Water Year Types[b]												
Wet (31%)	3.0	5.9	10.8	9.4	12.3	11.8	8.0	4.4	3.8	3.8	3.4	5.3
Above Normal (25%)	2.1	2.4	3.4	11.6	11.5	9.5	4.3	2.8	2.8	4.1	3.4	3.8
Below Normal (6%)	2.8	3.1	2.8	4.3	5.2	4.9	2.9	2.4	3.0	3.4	2.9	2.8
Dry (13%)	2.5	2.8	3.0	3.0	3.3	4.6	3.0	3.1	2.8	3.7	3.2	2.4
Critical (25%)	2.4	2.5	2.7	3.0	2.5	2.9	2.4	2.2	2.4	3.1	2.5	2.3

Alternative 9 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.4	**-0.7**	0.3	0.8	0.5	0.3	0.1	**-0.2**	0.9	0.9	1.0	2.9
20%	1.4	**-0.7**	0.0	1.3	0.6	0.8	0.8	1.3	1.4	1.2	1.2	2.9
30%	1.4	1.4	0.8	0.4	0.8	0.0	0.7	1.2	1.4	1.2	1.3	2.1
40%	1.5	1.4	0.9	0.7	**-0.4**	**-0.6**	1.0	1.3	1.4	1.0	1.3	1.2
50%	1.3	1.3	1.1	0.6	0.4	0.2	1.1	1.3	1.4	0.9	1.4	1.2
60%	1.3	1.2	1.2	0.8	1.1	**-0.3**	1.2	1.3	1.4	0.7	1.3	1.2
70%	1.3	1.3	1.2	1.0	0.9	0.4	1.2	1.5	1.5	0.9	1.2	1.1
80%	1.4	1.3	1.2	0.9	0.9	0.8	1.3	1.4	1.5	0.7	1.0	1.4
90%	1.4	1.4	1.5	1.2	1.3	1.3	1.4	1.6	1.6	0.8	1.2	1.4
Long Term												
Full Simulation Period[a]	1.1	0.9	1.0	0.8	0.8	0.4	1.0	0.9	1.0	0.9	1.2	1.7
Water Year Types[b]												
Wet (31%)	0.8	**0.0**	0.7	0.7	0.6	0.0	0.7	**-0.4**	**-0.1**	0.6	1.3	2.5
Above Normal (25%)	1.2	1.1	0.9	0.6	1.0	0.4	0.1	0.5	1.1	1.8	1.6	2.1
Below Normal (6%)	1.1	1.9	1.8	0.7	**-0.4**	0.0	1.0	0.5	1.4	0.6	0.9	1.4
Dry (13%)	1.3	0.8	0.9	0.9	0.8	0.2	1.1	1.8	1.4	1.0	0.9	1.0
Critical (25%)	1.2	1.4	1.1	0.9	1.0	1.0	1.3	1.6	1.5	0.9	1.2	1.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-29-2-14. Sacramento River at Freeport, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.8	5.4	12.4	12.4	14.1	13.1	9.0	3.9	3.0	4.5	3.3	5.1
20%	2.7	4.2	3.8	10.8	13.3	11.3	4.3	2.9	2.8	4.5	3.2	4.3
30%	2.6	3.2	3.7	7.6	8.4	8.8	3.3	2.7	2.6	4.2	3.2	3.6
40%	2.5	2.8	3.2	4.5	5.5	6.3	2.8	2.4	2.5	4.1	3.1	2.5
50%	2.4	2.5	3.1	4.3	4.4	5.3	2.6	2.2	2.4	3.8	2.9	2.3
60%	2.4	2.1	2.7	3.6	3.1	4.4	2.5	2.1	2.3	3.6	2.8	2.2
70%	2.3	2.0	2.6	3.2	2.6	3.3	2.4	2.0	2.2	3.4	2.4	2.1
80%	2.1	1.9	2.0	2.7	2.4	2.5	2.3	1.8	2.1	3.0	2.2	2.0
90%	1.9	1.8	1.9	2.3	1.9	2.2	2.1	1.6	2.0	2.7	2.1	2.0
Long Term												
Full Simulation Period[a]	2.4	3.3	4.8	6.0	6.5	6.7	4.2	2.7	2.6	3.7	2.8	3.0
Water Year Types[b]												
Wet (31%)	2.8	5.8	10.9	9.8	12.5	12.0	8.0	4.2	3.5	4.0	3.2	5.0
Above Normal (25%)	2.1	2.2	3.5	11.8	11.8	10.1	4.6	2.7	2.6	4.3	3.2	3.6
Below Normal (6%)	2.7	2.8	2.6	4.5	5.5	5.1	2.8	2.2	2.8	3.3	2.8	2.5
Dry (13%)	2.3	2.8	2.9	3.0	3.4	4.9	2.8	2.5	2.4	4.0	3.0	2.2
Critical (25%)	2.3	2.2	2.4	3.2	2.3	2.8	2.3	1.8	2.0	3.1	2.2	2.0

Alternative 1A,1B,1C (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.9	4.2	10.7	10.2	12.3	11.3	7.0	3.3	3.4	4.0	2.8	2.6
20%	3.5	3.8	3.4	8.6	11.2	9.2	3.9	2.9	3.0	3.9	2.8	2.6
30%	2.9	2.8	3.2	6.2	6.2	6.8	3.0	2.7	2.9	3.6	2.7	2.5
40%	2.7	2.2	3.1	3.7	4.0	4.0	2.6	2.5	2.8	3.2	2.5	2.4
50%	2.3	2.1	3.0	3.4	3.3	3.8	2.6	2.4	2.6	3.1	2.4	2.3
60%	2.3	1.9	2.9	3.0	2.4	3.4	2.6	2.4	2.6	3.0	2.3	2.3
70%	2.2	1.8	2.4	2.6	2.4	2.8	2.4	2.3	2.5	2.8	2.3	2.1
80%	2.1	1.8	2.3	2.4	2.3	2.4	2.3	2.0	2.3	2.6	2.3	2.1
90%	2.0	1.7	2.1	2.1	2.3	2.0	2.3	1.8	2.2	2.4	2.3	2.1
Long Term												
Full Simulation Period[a]	2.8	2.8	4.4	4.9	5.5	5.5	3.8	2.7	2.8	3.2	2.6	2.4
Water Year Types[b]												
Wet (31%)	2.5	5.2	9.6	7.9	10.6	10.2	7.0	3.6	3.4	3.6	2.4	2.4
Above Normal (25%)	2.8	1.8	3.2	9.6	9.8	8.1	3.4	2.5	2.8	3.3	2.3	2.0
Below Normal (6%)	4.2	1.8	2.4	3.7	4.0	3.6	2.5	2.3	2.8	2.4	2.1	2.1
Dry (13%)	2.2	2.2	2.8	3.0	2.7	3.9	2.8	2.7	2.8	3.6	3.1	2.4
Critical (25%)	3.2	2.1	2.4	2.5	2.3	2.4	2.3	2.0	2.3	2.8	2.4	2.4

Alternative 1A,1B,1C (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.1	-1.3	-1.7	-2.2	-1.8	-1.8	-2.0	-0.6	0.4	-0.5	-0.5	-2.5
20%	0.8	-0.5	-0.5	-2.2	-2.1	-2.1	-0.5	-0.1	0.3	-0.6	-0.4	-1.8
30%	0.4	-0.3	-0.5	-1.4	-2.2	-1.9	-0.3	0.0	0.3	-0.6	-0.5	-1.1
40%	0.3	-0.5	-0.1	-0.8	-1.5	-2.3	-0.1	0.1	0.3	-0.8	-0.6	-0.1
50%	-0.1	-0.4	-0.2	-0.9	-1.0	-1.4	0.1	0.2	0.2	-0.7	-0.5	0.0
60%	-0.1	-0.1	0.1	-0.6	-0.6	-1.0	0.1	0.2	0.3	-0.6	-0.4	0.1
70%	-0.1	-0.2	-0.2	-0.5	-0.2	-0.5	0.0	0.3	0.3	-0.6	-0.1	0.0
80%	0.0	-0.1	0.2	-0.3	-0.2	-0.2	0.0	0.2	0.3	-0.4	0.1	0.1
90%	0.1	0.0	0.1	-0.3	0.3	-0.2	0.2	0.1	0.3	-0.3	0.1	0.1
Long Term												
Full Simulation Period[a]	0.3	-0.4	-0.4	-1.0	-1.0	-1.2	-0.4	0.0	0.2	-0.5	-0.2	-0.7
Water Year Types[b]												
Wet (31%)	-0.4	-0.5	-1.3	-1.9	-1.9	-1.9	-1.0	-0.6	-0.1	-0.4	-0.7	-2.5
Above Normal (25%)	0.7	-0.3	-0.3	-2.2	-1.9	-2.1	-1.2	-0.2	0.2	-0.9	-0.8	-1.6
Below Normal (6%)	1.4	-1.0	-0.2	-0.8	-1.5	-1.5	-0.3	0.1	0.0	-0.9	-0.7	-0.4
Dry (13%)	-0.1	-0.6	-0.1	0.0	-0.7	-0.9	0.0	0.2	0.4	-0.3	0.0	0.2
Critical (25%)	0.9	-0.1	0.0	-0.8	0.0	-0.4	0.0	0.2	0.3	-0.3	0.3	0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-29-2-15. Sacramento River at Freeport, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.8	5.4	12.4	12.4	14.1	13.1	9.0	3.9	3.0	4.5	3.3	5.1
20%	2.7	4.2	3.8	10.8	13.3	11.3	4.3	2.9	2.8	4.5	3.2	4.3
30%	2.6	3.2	3.7	7.6	8.4	8.8	3.3	2.7	2.6	4.2	3.2	3.6
40%	2.5	2.8	3.2	4.5	5.5	6.3	2.8	2.4	2.5	4.1	3.1	2.5
50%	2.4	2.5	3.1	4.3	4.4	5.3	2.6	2.2	2.4	3.8	2.9	2.3
60%	2.4	2.1	2.7	3.6	3.1	4.4	2.5	2.1	2.3	3.6	2.8	2.2
70%	2.3	2.0	2.6	3.2	2.6	3.3	2.4	2.0	2.2	3.4	2.4	2.1
80%	2.1	1.9	2.0	2.7	2.4	2.5	2.3	1.8	2.1	3.0	2.2	2.0
90%	1.9	1.8	1.9	2.3	1.9	2.2	2.1	1.6	2.0	2.7	2.1	2.0
Long Term												
Full Simulation Period[a]	2.4	3.3	4.8	6.0	6.5	6.7	4.2	2.7	2.6	3.7	2.8	3.0
Water Year Types[b]												
Wet (31%)	2.8	5.8	10.9	9.8	12.5	12.0	8.0	4.2	3.5	4.0	3.2	5.0
Above Normal (25%)	2.1	2.2	3.5	11.8	11.8	10.1	4.6	2.7	2.6	4.3	3.2	3.6
Below Normal (6%)	2.7	2.8	2.6	4.5	5.5	5.1	2.8	2.2	2.8	3.3	2.8	2.5
Dry (13%)	2.3	2.8	2.9	3.0	3.4	4.9	2.8	2.5	2.4	4.0	3.0	2.2
Critical (25%)	2.3	2.2	2.4	3.2	2.3	2.8	2.3	1.8	2.0	3.1	2.2	2.0

Alternative 2A,2B,2C (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.8	4.1	10.6	10.3	12.3	11.4	7.2	3.4	3.4	4.2	3.0	4.0
20%	2.7	3.6	3.3	8.8	11.4	9.3	4.0	2.9	3.0	3.9	2.7	3.7
30%	2.5	2.5	3.2	5.9	6.2	6.6	2.8	2.7	2.9	3.7	2.6	2.9
40%	2.3	2.3	3.1	3.6	4.0	4.2	2.7	2.6	2.9	3.6	2.6	2.7
50%	2.2	2.2	2.8	3.4	3.4	4.0	2.5	2.5	2.6	3.4	2.5	2.5
60%	2.1	2.0	2.6	3.2	2.5	3.5	2.4	2.3	2.5	3.1	2.5	2.4
70%	2.0	1.9	2.5	2.7	2.4	2.7	2.3	2.1	2.4	2.9	2.4	2.4
80%	1.9	1.9	2.4	2.5	2.3	2.3	2.3	2.0	2.3	2.6	2.3	2.3
90%	1.9	1.8	2.3	2.2	1.8	2.1	2.2	1.8	2.3	2.4	2.3	2.3
Long Term												
Full Simulation Period[a]	2.3	2.8	4.4	5.0	5.5	5.5	3.7	2.7	2.8	3.4	2.6	2.9
Water Year Types[b]												
Wet (31%)	2.4	4.7	9.5	8.0	10.7	10.2	7.0	3.6	3.4	3.7	2.5	4.0
Above Normal (25%)	2.6	1.9	3.2	9.7	9.7	8.2	3.4	2.6	2.5	4.1	2.7	2.7
Below Normal (6%)	2.1	1.9	2.4	3.7	4.0	3.8	2.6	2.3	2.9	2.4	2.2	2.2
Dry (13%)	2.0	2.4	2.7	2.6	2.8	3.7	2.8	2.8	2.9	3.5	2.9	2.5
Critical (25%)	2.4	2.2	2.5	2.9	2.1	2.5	2.2	2.0	2.3	2.8	2.4	2.4

Alternative 2A,2B,2C (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.0	-1.3	-1.9	-2.1	-1.8	-1.8	-1.8	-0.5	0.3	-0.3	-0.4	-1.1
20%	0.0	-0.6	-0.5	-2.1	-1.9	-2.0	-0.3	0.0	0.3	-0.5	-0.5	-0.6
30%	-0.1	-0.7	-0.5	-1.7	-2.2	-2.2	-0.5	0.1	0.3	-0.5	-0.5	-0.7
40%	-0.1	-0.5	-0.1	-0.9	-1.5	-2.1	-0.1	0.1	0.4	-0.4	-0.5	0.2
50%	-0.2	-0.3	-0.3	-0.9	-1.0	-1.3	-0.1	0.3	0.2	-0.4	-0.4	0.2
60%	-0.2	-0.1	-0.1	-0.3	-0.6	-0.9	-0.1	0.1	0.2	-0.4	-0.3	0.2
70%	-0.3	-0.1	-0.1	-0.4	-0.2	-0.6	-0.1	0.1	0.2	-0.5	0.0	0.3
80%	-0.2	0.0	0.3	-0.3	-0.2	-0.3	0.0	0.2	0.3	-0.3	0.1	0.3
90%	0.0	0.1	0.3	-0.1	-0.1	-0.1	0.1	0.1	0.3	-0.3	0.2	0.3
Long Term												
Full Simulation Period[a]	-0.1	-0.4	-0.4	-1.0	-1.0	-1.2	-0.4	0.0	0.2	-0.3	-0.2	-0.2
Water Year Types[b]												
Wet (31%)	-0.5	-1.1	-1.4	-1.8	-1.8	-1.8	-1.0	-0.6	-0.1	-0.3	-0.6	-1.0
Above Normal (25%)	0.5	-0.3	-0.3	-2.0	-2.0	-1.9	-1.2	-0.1	0.0	-0.2	-0.5	-0.9
Below Normal (6%)	-0.6	-0.9	-0.3	-0.8	-1.5	-1.3	-0.2	0.0	0.0	-0.9	-0.6	-0.3
Dry (13%)	-0.3	-0.4	-0.1	-0.4	-0.7	-1.1	0.0	0.3	0.4	-0.4	-0.1	0.3
Critical (25%)	0.1	0.0	0.1	-0.3	-0.2	-0.4	0.0	0.2	0.3	-0.2	0.3	0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-29-2-16. Sacramento River at Freeport, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.8	5.4	12.4	12.4	14.1	13.1	9.0	3.9	3.0	4.5	3.3	5.1
20%	2.7	4.2	3.8	10.8	13.3	11.3	4.3	2.9	2.8	4.5	3.2	4.3
30%	2.6	3.2	3.7	7.6	8.4	8.8	3.3	2.7	2.6	4.2	3.2	3.6
40%	2.5	2.8	3.2	4.5	5.5	6.3	2.8	2.4	2.5	4.1	3.1	2.5
50%	2.4	2.5	3.1	4.3	4.4	5.3	2.6	2.2	2.4	3.8	2.9	2.3
60%	2.4	2.1	2.7	3.6	3.1	4.4	2.5	2.1	2.3	3.6	2.8	2.2
70%	2.3	2.0	2.6	3.2	2.6	3.3	2.4	2.0	2.2	3.4	2.4	2.1
80%	2.1	1.9	2.0	2.7	2.4	2.5	2.3	1.8	2.1	3.0	2.2	2.0
90%	1.9	1.8	1.9	2.3	1.9	2.2	2.1	1.6	2.0	2.7	2.1	2.0
Long Term												
Full Simulation Period[a]	2.4	3.3	4.8	6.0	6.5	6.7	4.2	2.7	2.6	3.7	2.8	3.0
Water Year Types[b]												
Wet (31%)	2.8	5.8	10.9	9.8	12.5	12.0	8.0	4.2	3.5	4.0	3.2	5.0
Above Normal (25%)	2.1	2.2	3.5	11.8	11.8	10.1	4.6	2.7	2.6	4.3	3.2	3.6
Below Normal (6%)	2.7	2.8	2.6	4.5	5.5	5.1	2.8	2.2	2.8	3.3	2.8	2.5
Dry (13%)	2.3	2.8	2.9	3.0	3.4	4.9	2.8	2.5	2.4	4.0	3.0	2.2
Critical (25%)	2.3	2.2	2.4	3.2	2.3	2.8	2.3	1.8	2.0	3.1	2.2	2.0

Alternative 3 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.9	5.0	11.6	10.8	12.9	12.0	7.6	3.7	3.6	4.1	2.9	2.7
20%	3.6	3.8	3.7	9.5	12.0	9.8	3.9	2.8	3.1	4.0	2.7	2.6
30%	3.1	2.3	3.4	6.4	6.8	7.2	3.1	2.7	2.8	3.7	2.7	2.5
40%	2.7	2.2	3.0	3.9	4.4	4.4	2.7	2.5	2.7	3.2	2.5	2.4
50%	2.5	2.1	3.0	3.7	3.7	4.2	2.7	2.4	2.6	3.0	2.4	2.4
60%	2.2	2.1	2.9	3.1	2.7	3.6	2.6	2.3	2.4	3.0	2.3	2.3
70%	2.2	2.0	2.5	2.6	2.5	3.1	2.5	2.3	2.4	2.8	2.3	2.3
80%	2.1	2.0	2.2	2.5	2.4	2.5	2.4	2.0	2.4	2.5	2.3	2.3
90%	2.0	1.9	2.2	2.2	2.0	2.2	2.3	1.8	2.2	2.4	2.2	2.1
Long Term												
Full Simulation Period[a]	2.8	3.0	4.6	5.3	5.8	5.9	3.9	2.7	2.8	3.2	2.5	2.4
Water Year Types[b]												
Wet (31%)	2.5	5.4	10.2	8.5	11.3	10.7	7.4	3.8	3.6	3.5	2.4	2.7
Above Normal (25%)	3.1	2.1	3.2	10.4	10.5	8.5	3.8	2.5	2.8	3.4	2.3	2.2
Below Normal (6%)	3.6	2.1	2.5	3.9	4.4	4.0	2.6	2.3	2.7	2.3	2.1	2.0
Dry (13%)	2.2	2.3	2.9	2.9	3.0	4.3	2.9	2.8	2.7	3.7	2.9	2.4
Critical (25%)	3.3	2.1	2.5	2.8	2.2	2.6	2.3	2.0	2.3	2.8	2.5	2.5

Alternative 3 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.1	-0.5	-0.9	-1.5	-1.1	-1.1	-1.4	-0.2	0.5	-0.4	-0.4	-2.4
20%	0.9	-0.5	-0.2	-1.4	-1.4	-1.5	-0.5	-0.1	0.3	-0.5	-0.5	-1.7
30%	0.5	-0.9	-0.3	-1.2	-1.6	-1.6	-0.2	0.0	0.1	-0.6	-0.5	-1.1
40%	0.3	-0.5	-0.2	-0.6	-1.1	-1.9	-0.1	0.0	0.2	-0.8	-0.6	-0.1
50%	0.1	-0.4	-0.1	-0.5	-0.7	-1.1	0.1	0.2	0.1	-0.8	-0.5	0.0
60%	-0.1	0.0	0.1	-0.4	-0.4	-0.8	0.2	0.2	0.1	-0.6	-0.4	0.2
70%	-0.1	0.0	-0.1	-0.6	-0.1	-0.2	0.1	0.3	0.2	-0.6	-0.1	0.2
80%	0.0	0.1	0.2	-0.2	-0.1	0.0	0.1	0.2	0.3	-0.5	0.1	0.3
90%	0.1	0.1	0.2	-0.1	0.0	-0.1	0.2	0.1	0.3	-0.3	0.1	0.1
Long Term												
Full Simulation Period[a]	0.4	-0.3	-0.2	-0.7	-0.7	-0.8	-0.2	0.0	0.2	-0.4	-0.3	-0.6
Water Year Types[b]												
Wet (31%)	-0.4	-0.4	-0.7	-1.4	-1.3	-1.3	-0.7	-0.4	0.0	-0.5	-0.8	-2.3
Above Normal (25%)	1.0	-0.1	-0.3	-1.4	-1.3	-1.7	-0.8	-0.2	0.2	-0.9	-0.8	-1.3
Below Normal (6%)	0.9	-0.7	-0.1	-0.6	-1.1	-1.1	-0.2	0.1	-0.1	-0.9	-0.7	-0.5
Dry (13%)	-0.1	-0.5	0.0	-0.1	-0.4	-0.6	0.1	0.3	0.2	-0.3	-0.1	0.2
Critical (25%)	1.0	-0.1	0.1	-0.5	-0.1	-0.3	0.1	0.2	0.3	-0.3	0.3	0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-29-2-17. Sacramento River at Freeport, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.8	5.4	12.4	12.4	14.1	13.1	9.0	3.9	3.0	4.5	3.3	5.1
20%	2.7	4.2	3.8	10.8	13.3	11.3	4.3	2.9	2.8	4.5	3.2	4.3
30%	2.6	3.2	3.7	7.6	8.4	8.8	3.3	2.7	2.6	4.2	3.2	3.6
40%	2.5	2.8	3.2	4.5	5.5	6.3	2.8	2.4	2.5	4.1	3.1	2.5
50%	2.4	2.5	3.1	4.3	4.4	5.3	2.6	2.2	2.4	3.8	2.9	2.3
60%	2.4	2.1	2.7	3.6	3.1	4.4	2.5	2.1	2.3	3.6	2.8	2.2
70%	2.3	2.0	2.6	3.2	2.6	3.3	2.4	2.0	2.2	3.4	2.4	2.1
80%	2.1	1.9	2.0	2.7	2.4	2.5	2.3	1.8	2.1	3.0	2.2	2.0
90%	1.9	1.8	1.9	2.3	1.9	2.2	2.1	1.6	2.0	2.7	2.1	2.0
Long Term												
Full Simulation Period[a]	2.4	3.3	4.8	6.0	6.5	6.7	4.2	2.7	2.6	3.7	2.8	3.0
Water Year Types[b]												
Wet (31%)	2.8	5.8	10.9	9.8	12.5	12.0	8.0	4.2	3.5	4.0	3.2	5.0
Above Normal (25%)	2.1	2.2	3.5	11.8	11.8	10.1	4.6	2.7	2.6	4.3	3.2	3.6
Below Normal (6%)	2.7	2.8	2.6	4.5	5.5	5.1	2.8	2.2	2.8	3.3	2.8	2.5
Dry (13%)	2.3	2.8	2.9	3.0	3.4	4.9	2.8	2.5	2.4	4.0	3.0	2.2
Critical (25%)	2.3	2.2	2.4	3.2	2.3	2.8	2.3	1.8	2.0	3.1	2.2	2.0

Alternative 4 H1 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.8	4.9	11.2	10.6	12.7	11.7	7.4	3.6	3.3	4.5	3.1	2.9
20%	2.8	3.7	3.6	9.2	11.7	9.6	4.1	2.9	3.0	3.9	2.9	2.6
30%	2.7	2.2	3.3	6.2	6.6	7.2	2.9	2.8	2.9	3.8	2.8	2.6
40%	2.5	2.2	3.2	3.9	4.3	4.3	2.7	2.4	2.7	3.7	2.6	2.5
50%	2.4	2.1	3.0	3.8	3.6	4.2	2.6	2.4	2.6	3.3	2.6	2.4
60%	2.1	2.0	2.8	3.4	2.7	3.7	2.5	2.2	2.5	3.0	2.5	2.4
70%	2.0	2.0	2.5	3.3	2.4	2.9	2.4	2.1	2.4	2.8	2.4	2.3
80%	2.0	1.9	2.3	2.9	2.3	2.3	2.3	2.0	2.3	2.7	2.3	2.3
90%	1.9	1.8	2.3	2.3	2.0	2.2	2.3	1.7	2.2	2.3	2.3	2.2
Long Term												
Full Simulation Period[a]	2.4	2.9	4.5	5.3	5.7	5.8	3.8	2.7	2.8	3.4	2.7	2.5
Water Year Types[b]												
Wet (31%)	2.3	5.2	9.9	8.3	11.0	10.5	7.2	3.7	3.5	3.8	2.6	2.7
Above Normal (25%)	2.5	2.0	3.3	10.3	10.2	8.4	3.5	2.5	2.5	4.1	2.8	2.2
Below Normal (6%)	2.9	2.0	2.4	3.9	4.3	4.0	2.7	2.2	2.7	2.2	2.1	2.0
Dry (13%)	2.0	2.4	2.8	2.8	2.9	4.1	2.9	2.8	2.8	3.6	3.0	2.7
Critical (25%)	2.5	2.1	2.6	3.2	2.2	2.6	2.3	2.0	2.3	2.7	2.4	2.4

Alternative 4 H1 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.1	-0.6	-1.2	-1.7	-1.3	-1.4	-1.6	-0.2	0.3	0.0	-0.2	-2.2
20%	0.1	-0.5	-0.2	-1.6	-1.6	-1.8	-0.2	0.0	0.2	-0.5	-0.3	-1.7
30%	0.1	-0.9	-0.3	-1.5	-1.8	-1.5	-0.5	0.1	0.2	-0.4	-0.4	-1.0
40%	0.1	-0.6	0.0	-0.6	-1.2	-2.0	-0.1	0.0	0.3	-0.4	-0.5	0.0
50%	-0.1	-0.4	-0.1	-0.5	-0.8	-1.1	0.1	0.2	0.2	-0.5	-0.3	0.1
60%	-0.3	0.0	0.0	-0.1	-0.4	-0.7	0.0	0.1	0.2	-0.6	-0.3	0.2
70%	-0.3	0.0	-0.2	0.1	-0.2	-0.5	0.0	0.1	0.2	-0.6	0.0	0.2
80%	-0.1	0.0	0.3	0.2	-0.1	-0.2	0.0	0.2	0.2	-0.3	0.1	0.2
90%	0.1	0.1	0.3	0.0	0.1	0.0	0.2	0.1	0.3	-0.4	0.1	0.2
Long Term												
Full Simulation Period[a]	-0.1	-0.4	-0.2	-0.7	-0.8	-0.9	-0.3	0.0	0.2	-0.3	-0.1	-0.5
Water Year Types[b]												
Wet (31%)	-0.5	-0.5	-1.0	-1.5	-1.5	-1.5	-0.9	-0.5	0.0	-0.2	-0.6	-2.3
Above Normal (25%)	0.4	-0.2	-0.3	-1.5	-1.6	-1.7	-1.0	-0.2	-0.1	-0.1	-0.4	-1.4
Below Normal (6%)	0.1	-0.8	-0.2	-0.6	-1.2	-1.1	-0.1	0.0	-0.1	-1.1	-0.7	-0.5
Dry (13%)	-0.3	-0.5	0.0	-0.2	-0.5	-0.8	0.1	0.3	0.4	-0.3	0.0	0.5
Critical (25%)	0.2	-0.1	0.2	0.0	-0.1	-0.3	0.0	0.2	0.3	-0.3	0.3	0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-29-2-18. Sacramento River at Freeport, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.8	5.4	12.4	12.4	14.1	13.1	9.0	3.9	3.0	4.5	3.3	5.1
20%	2.7	4.2	3.8	10.8	13.3	11.3	4.3	2.9	2.8	4.5	3.2	4.3
30%	2.6	3.2	3.7	7.6	8.4	8.8	3.3	2.7	2.6	4.2	3.2	3.6
40%	2.5	2.8	3.2	4.5	5.5	6.3	2.8	2.4	2.5	4.1	3.1	2.5
50%	2.4	2.5	3.1	4.3	4.4	5.3	2.6	2.2	2.4	3.8	2.9	2.3
60%	2.4	2.1	2.7	3.6	3.1	4.4	2.5	2.1	2.3	3.6	2.8	2.2
70%	2.3	2.0	2.6	3.2	2.6	3.3	2.4	2.0	2.2	3.4	2.4	2.1
80%	2.1	1.9	2.0	2.7	2.4	2.5	2.3	1.8	2.1	3.0	2.2	2.0
90%	1.9	1.8	1.9	2.3	1.9	2.2	2.1	1.6	2.0	2.7	2.1	2.0
Long Term												
Full Simulation Period[a]	2.4	3.3	4.8	6.0	6.5	6.7	4.2	2.7	2.6	3.7	2.8	3.0
Water Year Types[b]												
Wet (31%)	2.8	5.8	10.9	9.8	12.5	12.0	8.0	4.2	3.5	4.0	3.2	5.0
Above Normal (25%)	2.1	2.2	3.5	11.8	11.8	10.1	4.6	2.7	2.6	4.3	3.2	3.6
Below Normal (6%)	2.7	2.8	2.6	4.5	5.5	5.1	2.8	2.2	2.8	3.3	2.8	2.5
Dry (13%)	2.3	2.8	2.9	3.0	3.4	4.9	2.8	2.5	2.4	4.0	3.0	2.2
Critical (25%)	2.3	2.2	2.4	3.2	2.3	2.8	2.3	1.8	2.0	3.1	2.2	2.0

Alternative 4 H2 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.1	5.1	11.4	10.7	12.7	11.7	7.8	3.6	3.1	3.7	3.0	2.7
20%	3.0	3.9	3.8	9.2	11.7	9.6	4.5	3.5	2.9	3.4	2.8	2.6
30%	2.8	2.2	3.4	6.1	6.6	7.5	4.1	2.9	2.7	3.3	2.7	2.5
40%	2.3	2.1	3.3	3.8	4.5	4.4	3.1	2.9	2.5	3.1	2.6	2.5
50%	2.3	2.1	2.8	3.5	3.6	4.3	2.6	2.5	2.5	3.1	2.6	2.4
60%	2.2	2.0	2.4	3.4	2.6	3.7	2.5	2.3	2.4	2.9	2.5	2.3
70%	2.1	2.0	2.2	3.1	2.4	2.9	2.4	2.2	2.3	2.5	2.4	2.3
80%	2.0	1.9	2.2	2.7	2.3	2.3	2.3	1.9	2.2	2.4	2.3	2.2
90%	2.0	1.9	2.0	2.3	1.9	2.1	2.2	1.7	2.2	2.4	2.2	2.2
Long Term												
Full Simulation Period[a]	2.4	3.0	4.5	5.3	5.7	5.8	4.1	2.8	2.7	3.0	2.6	2.5
Water Year Types[b]												
Wet (31%)	2.5	5.3	10.0	8.3	11.0	10.5	7.7	3.9	3.2	3.2	2.6	2.7
Above Normal (25%)	2.6	2.0	3.3	10.5	10.3	8.5	4.7	3.1	2.4	2.9	2.6	2.2
Below Normal (6%)	2.0	2.0	2.1	3.9	4.5	4.3	2.7	2.3	2.9	2.3	2.1	2.0
Dry (13%)	2.1	2.4	2.7	2.7	2.9	4.2	2.8	2.7	2.7	3.4	2.9	2.4
Critical (25%)	2.7	2.1	2.4	3.1	2.2	2.6	2.2	2.0	2.2	2.8	2.5	2.5

Alternative 4 H2 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.3	**-0.4**	**-1.0**	**-1.7**	**-1.3**	**-1.4**	**-1.3**	**-0.3**	0.1	**-0.9**	**-0.3**	**-2.4**
20%	0.3	**-0.3**	**-0.1**	**-1.7**	**-1.6**	**-1.8**	0.1	0.6	0.1	**-1.1**	**-0.4**	**-1.7**
30%	0.2	**-0.9**	**-0.3**	**-1.5**	**-1.8**	**-1.3**	0.8	0.3	0.0	**-0.9**	**-0.4**	**-1.1**
40%	**-0.1**	**-0.6**	0.1	**-0.7**	**-1.0**	**-1.9**	0.4	0.4	0.1	**-0.9**	**-0.5**	**0.0**
50%	**-0.1**	**-0.4**	**-0.3**	**-0.8**	**-0.7**	**-0.9**	0.1	0.3	0.0	**-0.8**	**-0.3**	0.1
60%	**-0.1**	**0.0**	**-0.4**	**-0.2**	**-0.5**	**-0.7**	0.1	0.2	0.1	**-0.7**	**-0.3**	0.1
70%	**-0.2**	**0.0**	**-0.4**	**-0.1**	**-0.2**	**-0.4**	**0.0**	0.2	0.1	**-0.9**	0.0	0.2
80%	**-0.1**	0.0	0.1	**0.0**	**-0.1**	**-0.2**	**-0.1**	0.1	0.2	**-0.5**	0.1	0.2
90%	0.1	0.1	0.1	0.0	**-0.1**	**-0.1**	0.1	0.1	0.3	**-0.3**	0.1	0.2
Long Term												
Full Simulation Period[a]	0.0	**-0.3**	**-0.3**	**-0.7**	**-0.8**	**-0.9**	**-0.1**	0.1	0.0	**-0.7**	**-0.2**	**-0.6**
Water Year Types[b]												
Wet (31%)	**-0.3**	**-0.4**	**-0.9**	**-1.5**	**-1.5**	**-1.5**	**-0.3**	**-0.3**	**-0.3**	**-0.8**	**-0.6**	**-2.2**
Above Normal (25%)	0.5	**-0.2**	**-0.2**	**-1.3**	**-1.5**	**-1.7**	0.1	0.4	**-0.1**	**-1.4**	**-0.5**	**-1.4**
Below Normal (6%)	**-0.8**	**-0.8**	**-0.5**	**-0.6**	**-1.0**	**-0.8**	**-0.1**	0.1	0.1	**-1.0**	**-0.7**	**-0.5**
Dry (13%)	**-0.2**	**-0.4**	**-0.2**	**-0.3**	**-0.5**	**-0.7**	**0.0**	0.2	0.2	**-0.6**	**-0.1**	0.2
Critical (25%)	0.4	**-0.1**	**0.0**	**-0.1**	**-0.1**	**-0.2**	**0.0**	0.2	0.2	**-0.3**	0.3	0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-29-2-19. Sacramento River at Freeport, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.8	5.4	12.4	12.4	14.1	13.1	9.0	3.9	3.0	4.5	3.3	5.1
20%	2.7	4.2	3.8	10.8	13.3	11.3	4.3	2.9	2.8	4.5	3.2	4.3
30%	2.6	3.2	3.7	7.6	8.4	8.8	3.3	2.7	2.6	4.2	3.2	3.6
40%	2.5	2.8	3.2	4.5	5.5	6.3	2.8	2.4	2.5	4.1	3.1	2.5
50%	2.4	2.5	3.1	4.3	4.4	5.3	2.6	2.2	2.4	3.8	2.9	2.3
60%	2.4	2.1	2.7	3.6	3.1	4.4	2.5	2.1	2.3	3.6	2.8	2.2
70%	2.3	2.0	2.6	3.2	2.6	3.3	2.4	2.0	2.2	3.4	2.4	2.1
80%	2.1	1.9	2.0	2.7	2.4	2.5	2.3	1.8	2.1	3.0	2.2	2.0
90%	1.9	1.8	1.9	2.3	1.9	2.2	2.1	1.6	2.0	2.7	2.1	2.0
Long Term												
Full Simulation Period[a]	2.4	3.3	4.8	6.0	6.5	6.7	4.2	2.7	2.6	3.7	2.8	3.0
Water Year Types[b]												
Wet (31%)	2.8	5.8	10.9	9.8	12.5	12.0	8.0	4.2	3.5	4.0	3.2	5.0
Above Normal (25%)	2.1	2.2	3.5	11.8	11.8	10.1	4.6	2.7	2.6	4.3	3.2	3.6
Below Normal (6%)	2.7	2.8	2.6	4.5	5.5	5.1	2.8	2.2	2.8	3.3	2.8	2.5
Dry (13%)	2.3	2.8	2.9	3.0	3.4	4.9	2.8	2.5	2.4	4.0	3.0	2.2
Critical (25%)	2.3	2.2	2.4	3.2	2.3	2.8	2.3	1.8	2.0	3.1	2.2	2.0

Alternative 4 H3 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.7	4.9	11.0	10.6	12.6	11.7	7.4	3.6	3.3	4.5	3.1	4.3
20%	2.6	3.8	3.4	9.1	11.7	9.6	4.1	2.9	3.0	3.9	2.9	3.8
30%	2.4	2.5	3.3	6.3	6.6	6.9	2.9	2.7	2.9	3.8	2.7	3.0
40%	2.2	2.2	3.3	3.9	4.3	4.3	2.7	2.5	2.8	3.7	2.6	2.8
50%	2.2	2.2	3.1	3.8	3.6	4.2	2.5	2.4	2.6	3.2	2.5	2.6
60%	2.1	2.0	2.7	3.4	2.7	3.7	2.4	2.2	2.5	3.0	2.5	2.5
70%	2.1	2.0	2.5	2.8	2.4	2.8	2.4	2.1	2.4	2.8	2.4	2.4
80%	2.1	1.9	2.3	2.5	2.3	2.3	2.3	2.0	2.3	2.6	2.4	2.3
90%	2.0	1.9	2.1	2.1	1.9	2.2	2.3	1.7	2.2	2.3	2.3	2.3
Long Term												
Full Simulation Period[a]	2.3	3.0	4.5	5.2	5.7	5.7	3.8	2.7	2.8	3.3	2.6	3.0
Water Year Types[b]												
Wet (31%)	2.3	5.1	9.8	8.3	11.0	10.5	7.2	3.7	3.5	3.8	2.6	4.2
Above Normal (25%)	2.7	2.0	3.3	10.1	10.1	8.4	3.5	2.5	2.5	4.1	2.8	3.0
Below Normal (6%)	2.2	2.0	2.0	3.9	4.3	4.0	2.7	2.2	3.0	2.2	2.1	2.2
Dry (13%)	2.1	2.5	2.8	2.6	2.9	3.9	2.8	2.8	2.8	3.6	2.9	2.6
Critical (25%)	2.4	2.2	2.6	3.1	2.2	2.6	2.2	2.0	2.3	2.7	2.4	2.4

Alternative 4 H3 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.0	-0.6	-1.5	-1.8	-1.4	-1.5	-1.6	-0.3	0.3	0.0	-0.2	-0.8
20%	-0.2	-0.4	-0.5	-1.7	-1.6	-1.8	-0.2	-0.1	0.2	-0.5	-0.3	-0.6
30%	-0.2	-0.6	-0.4	-1.3	-1.8	-1.9	-0.5	0.1	0.3	-0.5	-0.5	-0.6
40%	-0.2	-0.6	0.1	-0.6	-1.2	-2.0	-0.1	0.1	0.4	-0.4	-0.5	0.3
50%	-0.2	-0.3	-0.1	-0.5	-0.7	-1.1	0.0	0.2	0.2	-0.6	-0.4	0.3
60%	-0.2	0.0	-0.1	-0.2	-0.4	-0.7	0.0	0.1	0.2	-0.6	-0.3	0.3
70%	-0.2	0.0	-0.1	-0.3	-0.2	-0.5	-0.1	0.1	0.2	-0.6	0.0	0.3
80%	0.0	0.0	0.3	-0.2	-0.1	-0.2	0.0	0.2	0.2	-0.3	0.1	0.3
90%	0.2	0.1	0.2	-0.2	-0.1	0.0	0.2	0.1	0.3	-0.4	0.1	0.3
Long Term												
Full Simulation Period[a]	-0.1	-0.3	-0.3	-0.8	-0.8	-1.0	-0.3	0.0	0.2	-0.3	-0.2	-0.1
Water Year Types[b]												
Wet (31%)	-0.5	-0.6	-1.1	-1.5	-1.5	-1.5	-0.9	-0.5	0.0	-0.2	-0.5	-0.8
Above Normal (25%)	0.6	-0.2	-0.2	-1.7	-1.6	-1.7	-1.0	-0.2	0.0	-0.1	-0.4	-0.6
Below Normal (6%)	-0.5	-0.8	-0.6	-0.6	-1.2	-1.1	-0.1	0.0	0.1	-1.1	-0.6	-0.3
Dry (13%)	-0.2	-0.3	-0.1	-0.4	-0.5	-0.9	0.1	0.3	0.4	-0.4	-0.1	0.4
Critical (25%)	0.1	0.0	0.2	-0.1	-0.1	-0.3	0.0	0.2	0.2	-0.4	0.2	0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-29-2-20. Sacramento River at Freeport, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.8	5.4	12.4	12.4	14.1	13.1	9.0	3.9	3.0	4.5	3.3	5.1
20%	2.7	4.2	3.8	10.8	13.3	11.3	4.3	2.9	2.8	4.5	3.2	4.3
30%	2.6	3.2	3.7	7.6	8.4	8.8	3.3	2.7	2.6	4.2	3.2	3.6
40%	2.5	2.8	3.2	4.5	5.5	6.3	2.8	2.4	2.5	4.1	3.1	2.5
50%	2.4	2.5	3.1	4.3	4.4	5.3	2.6	2.2	2.4	3.8	2.9	2.3
60%	2.4	2.1	2.7	3.6	3.1	4.4	2.5	2.1	2.3	3.6	2.8	2.2
70%	2.3	2.0	2.6	3.2	2.6	3.3	2.4	2.0	2.2	3.4	2.4	2.1
80%	2.1	1.9	2.0	2.7	2.4	2.5	2.3	1.8	2.1	3.0	2.2	2.0
90%	1.9	1.8	1.9	2.3	1.9	2.2	2.1	1.6	2.0	2.7	2.1	2.0
Long Term												
Full Simulation Period[a]	2.4	3.3	4.8	6.0	6.5	6.7	4.2	2.7	2.6	3.7	2.8	3.0
Water Year Types[b]												
Wet (31%)	2.8	5.8	10.9	9.8	12.5	12.0	8.0	4.2	3.5	4.0	3.2	5.0
Above Normal (25%)	2.1	2.2	3.5	11.8	11.8	10.1	4.6	2.7	2.6	4.3	3.2	3.6
Below Normal (6%)	2.7	2.8	2.6	4.5	5.5	5.1	2.8	2.2	2.8	3.3	2.8	2.5
Dry (13%)	2.3	2.8	2.9	3.0	3.4	4.9	2.8	2.5	2.4	4.0	3.0	2.2
Critical (25%)	2.3	2.2	2.4	3.2	2.3	2.8	2.3	1.8	2.0	3.1	2.2	2.0

Alternative 4 H4 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.9	4.8	11.1	10.7	12.6	11.7	7.8	3.6	3.1	3.6	3.0	4.2
20%	2.8	3.8	3.4	9.2	11.7	9.6	4.5	3.5	2.8	3.4	2.9	4.0
30%	2.6	2.5	3.3	6.1	6.6	7.3	4.1	2.9	2.7	3.2	2.8	3.0
40%	2.4	2.2	3.2	3.8	4.4	4.3	3.2	2.9	2.5	3.1	2.7	2.7
50%	2.3	2.2	2.8	3.5	3.6	4.2	2.6	2.5	2.5	2.9	2.6	2.6
60%	2.3	2.0	2.5	3.1	2.6	3.7	2.5	2.3	2.4	2.7	2.6	2.5
70%	2.2	2.0	2.4	2.5	2.4	2.8	2.3	2.1	2.3	2.6	2.5	2.5
80%	2.0	1.9	2.2	2.3	2.3	2.3	2.3	1.9	2.2	2.5	2.4	2.3
90%	1.9	1.9	2.1	2.1	1.9	2.1	2.2	1.7	2.2	2.4	2.3	2.3
Long Term												
Full Simulation Period[a]	2.4	3.0	4.4	5.1	5.7	5.8	4.1	2.8	2.6	3.0	2.6	2.9
Water Year Types[b]												
Wet (31%)	2.6	5.1	9.9	8.3	11.0	10.5	7.8	3.9	3.2	3.2	2.6	4.2
Above Normal (25%)	2.7	2.0	3.3	10.4	10.2	8.4	4.7	3.1	2.4	2.9	2.6	3.0
Below Normal (6%)	2.3	2.0	2.3	3.9	4.4	4.0	2.7	2.3	2.8	2.3	2.3	2.2
Dry (13%)	2.1	2.4	2.6	2.6	2.9	4.1	2.7	2.7	2.6	3.2	2.9	2.4
Critical (25%)	2.4	2.3	2.4	2.7	2.2	2.5	2.2	2.0	2.2	2.8	2.5	2.5

Alternative 4 H4 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.1	-0.7	-1.4	-1.7	-1.4	-1.4	-1.2	-0.3	0.1	-1.0	-0.4	-0.9
20%	0.1	-0.4	-0.5	-1.6	-1.6	-1.8	0.1	0.6	0.0	-1.1	-0.3	-0.4
30%	0.0	-0.6	-0.3	-1.5	-1.8	-1.4	0.8	0.3	0.0	-1.0	-0.3	-0.6
40%	-0.1	-0.5	0.0	-0.7	-1.1	-2.0	0.4	0.4	0.1	-0.9	-0.5	0.2
50%	-0.1	-0.3	-0.3	-0.8	-0.7	-1.1	0.1	0.3	0.0	-0.9	-0.3	0.2
60%	-0.1	0.0	-0.2	-0.5	-0.5	-0.7	0.1	0.2	0.1	-0.8	-0.2	0.3
70%	-0.1	0.0	-0.3	-0.6	-0.2	-0.5	-0.1	0.1	0.1	-0.8	0.1	0.4
80%	-0.1	0.0	0.2	-0.4	-0.1	-0.2	0.0	0.1	0.2	-0.5	0.2	0.3
90%	0.1	0.1	0.2	-0.2	-0.1	-0.1	0.1	0.1	0.2	-0.3	0.2	0.3
Long Term												
Full Simulation Period[a]	0.0	-0.3	-0.4	-0.9	-0.8	-0.9	-0.1	0.1	0.0	-0.7	-0.1	-0.1
Water Year Types[b]												
Wet (31%)	-0.2	-0.6	-1.0	-1.5	-1.5	-1.5	-0.3	-0.3	-0.3	-0.8	-0.5	-0.8
Above Normal (25%)	0.6	-0.2	-0.2	-1.4	-1.6	-1.7	0.2	0.4	-0.1	-1.4	-0.5	-0.6
Below Normal (6%)	-0.4	-0.8	-0.3	-0.6	-1.1	-1.1	-0.1	0.1	0.0	-1.0	-0.5	-0.3
Dry (13%)	-0.2	-0.4	-0.2	-0.4	-0.5	-0.7	-0.1	0.2	0.2	-0.7	-0.1	0.2
Critical (25%)	0.2	0.1	0.0	-0.6	-0.1	-0.3	0.0	0.2	0.2	-0.3	0.4	0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-29-2-21. Sacramento River at Freeport, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.8	5.4	12.4	12.4	14.1	13.1	9.0	3.9	3.0	4.5	3.3	5.1
20%	2.7	4.2	3.8	10.8	13.3	11.3	4.3	2.9	2.8	4.5	3.2	4.3
30%	2.6	3.2	3.7	7.6	8.4	8.8	3.3	2.7	2.6	4.2	3.2	3.6
40%	2.5	2.8	3.2	4.5	5.5	6.3	2.8	2.4	2.5	4.1	3.1	2.5
50%	2.4	2.5	3.1	4.3	4.4	5.3	2.6	2.2	2.4	3.8	2.9	2.3
60%	2.4	2.1	2.7	3.6	3.1	4.4	2.5	2.1	2.3	3.6	2.8	2.2
70%	2.3	2.0	2.6	3.2	2.6	3.3	2.4	2.0	2.2	3.4	2.4	2.1
80%	2.1	1.9	2.0	2.7	2.4	2.5	2.3	1.8	2.1	3.0	2.2	2.0
90%	1.9	1.8	1.9	2.3	1.9	2.2	2.1	1.6	2.0	2.7	2.1	2.0
Long Term												
Full Simulation Period[a]	2.4	3.3	4.8	6.0	6.5	6.7	4.2	2.7	2.6	3.7	2.8	3.0
Water Year Types[b]												
Wet (31%)	2.8	5.8	10.9	9.8	12.5	12.0	8.0	4.2	3.5	4.0	3.2	5.0
Above Normal (25%)	2.1	2.2	3.5	11.8	11.8	10.1	4.6	2.7	2.6	4.3	3.2	3.6
Below Normal (6%)	2.7	2.8	2.6	4.5	5.5	5.1	2.8	2.2	2.8	3.3	2.8	2.5
Dry (13%)	2.3	2.8	2.9	3.0	3.4	4.9	2.8	2.5	2.4	4.0	3.0	2.2
Critical (25%)	2.3	2.2	2.4	3.2	2.3	2.8	2.3	1.8	2.0	3.1	2.2	2.0

Alternative 5 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.1	5.2	11.8	11.3	13.4	12.5	8.2	3.7	3.4	4.3	3.2	4.5
20%	2.7	3.9	3.6	9.8	12.5	10.3	3.9	2.8	3.0	4.1	3.1	4.0
30%	2.7	2.8	3.5	6.6	7.2	7.6	3.0	2.6	2.9	3.9	2.9	3.0
40%	2.4	2.4	3.3	4.1	4.7	4.9	2.8	2.3	2.8	3.8	2.7	2.5
50%	2.4	2.3	3.1	3.8	3.9	4.5	2.7	2.3	2.8	3.5	2.6	2.5
60%	2.3	2.2	2.9	3.4	2.8	3.8	2.6	2.3	2.7	3.3	2.5	2.4
70%	2.3	2.2	2.7	3.0	2.7	3.1	2.4	2.1	2.5	3.1	2.4	2.3
80%	2.2	2.1	2.3	2.7	2.5	2.5	2.4	2.0	2.3	3.0	2.3	2.3
90%	2.1	2.0	2.1	2.3	1.9	2.3	2.3	1.8	2.3	2.4	2.3	2.2
Long Term												
Full Simulation Period[a]	2.5	3.2	4.7	5.5	6.1	6.1	4.0	2.7	2.9	3.5	2.7	3.0
Water Year Types[b]												
Wet (31%)	2.6	5.7	10.4	8.9	11.7	11.2	7.7	4.0	3.7	3.8	2.9	4.5
Above Normal (25%)	2.3	2.2	3.5	10.9	10.9	9.0	3.9	2.5	2.9	3.9	2.7	3.0
Below Normal (6%)	2.3	2.3	2.7	4.1	4.7	4.4	2.7	2.3	3.1	3.3	2.3	2.2
Dry (13%)	2.3	2.6	2.9	2.8	3.1	4.3	2.8	2.7	2.7	3.6	2.9	2.3
Critical (25%)	2.7	2.3	2.5	3.1	2.3	2.7	2.4	1.9	2.3	3.0	2.4	2.4

Alternative 5 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.3	-0.2	-0.7	-1.1	-0.7	-0.7	-0.8	-0.2	0.3	-0.2	-0.1	-0.6
20%	0.0	-0.3	-0.3	-1.0	-0.9	-1.0	-0.4	-0.1	0.3	-0.4	-0.1	-0.3
30%	0.1	-0.4	-0.2	-1.0	-1.2	-1.2	-0.3	0.0	0.3	-0.3	-0.3	-0.5
40%	0.0	-0.4	0.1	-0.4	-0.8	-1.4	0.0	-0.1	0.3	-0.3	-0.5	0.0
50%	0.0	-0.2	-0.1	-0.4	-0.5	-0.8	0.1	0.1	0.3	-0.3	-0.3	0.1
60%	0.0	0.2	0.2	-0.2	-0.2	-0.6	0.1	0.1	0.4	-0.2	-0.2	0.2
70%	0.0	0.2	0.1	-0.1	0.1	-0.3	0.0	0.1	0.3	-0.2	0.0	0.2
80%	0.1	0.2	0.3	-0.1	0.0	0.0	0.0	0.2	0.3	0.1	0.1	0.3
90%	0.2	0.2	0.2	0.0	0.0	0.1	0.2	0.1	0.3	-0.3	0.2	0.2
Long Term												
Full Simulation Period[a]	0.1	-0.1	-0.1	-0.5	-0.4	-0.6	-0.1	0.0	0.3	-0.2	-0.1	-0.1
Water Year Types[b]												
Wet (31%)	-0.2	-0.1	-0.5	-1.0	-0.8	-0.8	-0.4	-0.2	0.2	-0.2	-0.2	-0.5
Above Normal (25%)	0.2	0.0	-0.1	-0.9	-0.9	-1.2	-0.7	-0.2	0.3	-0.4	-0.5	-0.5
Below Normal (6%)	-0.4	-0.5	0.1	-0.4	-0.8	-0.7	-0.1	0.0	0.2	0.1	-0.5	-0.4
Dry (13%)	-0.1	-0.3	0.0	-0.2	-0.3	-0.6	0.0	0.1	0.3	-0.3	-0.1	0.1
Critical (25%)	0.4	0.1	0.1	-0.1	0.0	-0.1	0.2	0.1	0.3	-0.1	0.2	0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-29-2-22. Sacramento River at Freeport, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.8	5.4	12.4	12.4	14.1	13.1	9.0	3.9	3.0	4.5	3.3	5.1
20%	2.7	4.2	3.8	10.8	13.3	11.3	4.3	2.9	2.8	4.5	3.2	4.3
30%	2.6	3.2	3.7	7.6	8.4	8.8	3.3	2.7	2.6	4.2	3.2	3.6
40%	2.5	2.8	3.2	4.5	5.5	6.3	2.8	2.4	2.5	4.1	3.1	2.5
50%	2.4	2.5	3.1	4.3	4.4	5.3	2.6	2.2	2.4	3.8	2.9	2.3
60%	2.4	2.1	2.7	3.6	3.1	4.4	2.5	2.1	2.3	3.6	2.8	2.2
70%	2.3	2.0	2.6	3.2	2.6	3.3	2.4	2.0	2.2	3.4	2.4	2.1
80%	2.1	1.9	2.0	2.7	2.4	2.5	2.3	1.8	2.1	3.0	2.2	2.0
90%	1.9	1.8	1.9	2.3	1.9	2.2	2.1	1.6	2.0	2.7	2.1	2.0
Long Term												
Full Simulation Period[a]	2.4	3.3	4.8	6.0	6.5	6.7	4.2	2.7	2.6	3.7	2.8	3.0
Water Year Types[b]												
Wet (31%)	2.8	5.8	10.9	9.8	12.5	12.0	8.0	4.2	3.5	4.0	3.2	5.0
Above Normal (25%)	2.1	2.2	3.5	11.8	11.8	10.1	4.6	2.7	2.6	4.3	3.2	3.6
Below Normal (6%)	2.7	2.8	2.6	4.5	5.5	5.1	2.8	2.2	2.8	3.3	2.8	2.5
Dry (13%)	2.3	2.8	2.9	3.0	3.4	4.9	2.8	2.5	2.4	4.0	3.0	2.2
Critical (25%)	2.3	2.2	2.4	3.2	2.3	2.8	2.3	1.8	2.0	3.1	2.2	2.0

Alternative 6A,6B,6C (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.2	4.7	11.1	10.0	12.1	11.2	7.0	3.1	2.9	2.8	2.5	3.2
20%	1.9	3.5	3.3	8.7	11.2	9.1	3.8	2.6	2.7	2.6	2.3	2.7
30%	1.9	2.4	3.2	5.8	6.2	6.6	2.8	2.6	2.6	2.3	2.2	2.2
40%	1.9	2.0	2.9	3.5	4.2	4.1	2.5	2.5	2.4	2.2	2.2	2.1
50%	1.9	1.9	2.7	3.3	3.4	3.9	2.4	2.2	2.4	2.2	2.2	2.1
60%	1.8	1.8	2.3	2.8	3.1	3.4	2.4	2.1	2.3	2.2	2.1	2.1
70%	1.8	1.7	2.1	2.5	2.3	2.7	2.3	2.1	2.3	2.1	2.1	2.0
80%	1.8	1.7	2.0	2.1	2.2	2.2	2.2	1.9	2.2	2.1	2.1	2.0
90%	1.7	1.7	1.9	2.0	1.8	1.9	2.2	1.7	2.2	2.1	2.0	1.9
Long Term												
Full Simulation Period[a]	1.9	2.7	4.3	4.8	5.5	5.4	3.6	2.5	2.5	2.3	2.2	2.3
Water Year Types[b]												
Wet (31%)	2.1	4.8	9.7	7.9	10.6	10.1	6.9	3.5	3.0	2.8	2.4	3.1
Above Normal (25%)	1.8	1.7	3.0	9.8	9.6	7.9	3.3	2.5	2.4	2.4	2.1	2.1
Below Normal (6%)	1.9	1.7	2.0	3.7	4.2	3.7	2.5	2.3	2.9	2.1	2.0	1.8
Dry (13%)	1.8	2.3	2.5	2.5	2.7	3.8	2.7	2.4	2.5	2.1	2.1	2.0
Critical (25%)	1.9	2.0	2.2	2.4	2.3	2.3	2.2	1.9	2.2	2.2	2.2	2.1

Alternative 6A,6B,6C (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.6	-0.7	-1.4	-2.4	-2.0	-1.9	-2.1	-0.7	-0.1	-1.7	-0.9	-1.9
20%	-0.8	-0.7	-0.6	-2.1	-2.1	-2.2	-0.5	-0.3	-0.1	-1.9	-0.9	-1.6
30%	-0.6	-0.8	-0.5	-1.8	-2.2	-2.2	-0.6	-0.1	-0.1	-2.0	-1.0	-1.4
40%	-0.6	-0.8	-0.3	-0.9	-1.3	-2.2	-0.3	0.0	0.0	-1.8	-1.0	-0.4
50%	-0.5	-0.6	-0.4	-0.9	-1.0	-1.4	-0.1	0.0	0.0	-1.6	-0.7	-0.3
60%	-0.6	-0.2	-0.5	-0.8	0.0	-1.0	-0.1	0.0	0.0	-1.4	-0.6	-0.1
70%	-0.5	-0.3	-0.5	-0.7	-0.3	-0.6	-0.1	0.1	0.0	-1.2	-0.3	-0.1
80%	-0.4	-0.2	0.0	-0.7	-0.2	-0.3	-0.1	0.1	0.2	-0.8	-0.2	-0.1
90%	-0.1	-0.1	0.0	-0.3	-0.2	-0.3	0.1	0.1	0.2	-0.6	-0.1	-0.1
Long Term												
Full Simulation Period[a]	-0.5	-0.6	-0.5	-1.2	-1.0	-1.3	-0.5	-0.2	-0.1	-1.3	-0.6	-0.7
Water Year Types[b]												
Wet (31%)	-0.8	-0.9	-1.2	-2.0	-2.0	-1.9	-1.2	-0.7	-0.5	-1.2	-0.8	-1.8
Above Normal (25%)	-0.3	-0.5	-0.5	-1.9	-2.2	-2.2	-1.3	-0.2	-0.2	-1.8	-1.1	-1.5
Below Normal (6%)	-0.8	-1.0	-0.6	-0.8	-1.3	-1.4	-0.3	0.0	0.0	-1.1	-0.7	-0.7
Dry (13%)	-0.5	-0.5	-0.3	-0.5	-0.7	-1.1	-0.1	-0.1	0.1	-1.8	-0.9	-0.2
Critical (25%)	-0.4	-0.2	-0.2	-0.8	0.0	-0.5	-0.1	0.1	0.2	-0.9	0.0	0.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-29-2-23. Sacramento River at Freeport, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.8	5.4	12.4	12.4	14.1	13.1	9.0	3.9	3.0	4.5	3.3	5.1
20%	2.7	4.2	3.8	10.8	13.3	11.3	4.3	2.9	2.8	4.5	3.2	4.3
30%	2.6	3.2	3.7	7.6	8.4	8.8	3.3	2.7	2.6	4.2	3.2	3.6
40%	2.5	2.8	3.2	4.5	5.5	6.3	2.8	2.4	2.5	4.1	3.1	2.5
50%	2.4	2.5	3.1	4.3	4.4	5.3	2.6	2.2	2.4	3.8	2.9	2.3
60%	2.4	2.1	2.7	3.6	3.1	4.4	2.5	2.1	2.3	3.6	2.8	2.2
70%	2.3	2.0	2.6	3.2	2.6	3.3	2.4	2.0	2.2	3.4	2.4	2.1
80%	2.1	1.9	2.0	2.7	2.4	2.5	2.3	1.8	2.1	3.0	2.2	2.0
90%	1.9	1.8	1.9	2.3	1.9	2.2	2.1	1.6	2.0	2.7	2.1	2.0
Long Term												
Full Simulation Period[a]	2.4	3.3	4.8	6.0	6.5	6.7	4.2	2.7	2.6	3.7	2.8	3.0
Water Year Types[b]												
Wet (31%)	2.8	5.8	10.9	9.8	12.5	12.0	8.0	4.2	3.5	4.0	3.2	5.0
Above Normal (25%)	2.1	2.2	3.5	11.8	11.8	10.1	4.6	2.7	2.6	4.3	3.2	3.6
Below Normal (6%)	2.7	2.8	2.6	4.5	5.5	5.1	2.8	2.2	2.8	3.3	2.8	2.5
Dry (13%)	2.3	2.8	2.9	3.0	3.4	4.9	2.8	2.5	2.4	4.0	3.0	2.2
Critical (25%)	2.3	2.2	2.4	3.2	2.3	2.8	2.3	1.8	2.0	3.1	2.2	2.0

Alternative 7 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.5	4.9	11.4	10.4	12.6	11.7	7.6	3.4	2.9	4.3	3.1	4.2
20%	2.3	3.7	3.4	9.2	11.6	9.4	3.9	2.6	2.7	3.8	3.0	3.8
30%	2.2	2.5	3.3	6.0	6.5	6.7	2.9	2.5	2.6	3.7	2.9	2.9
40%	2.1	2.1	3.0	3.8	4.2	4.3	2.7	2.4	2.6	3.5	2.8	2.6
50%	2.1	2.1	2.8	3.6	3.7	4.1	2.5	2.2	2.6	3.4	2.8	2.4
60%	2.1	2.0	2.4	3.1	3.4	3.7	2.5	2.1	2.5	3.3	2.7	2.3
70%	2.0	2.0	2.2	2.6	2.6	3.0	2.4	2.1	2.5	3.1	2.7	2.3
80%	2.0	1.9	2.1	2.2	2.4	2.4	2.3	2.0	2.5	2.8	2.7	2.3
90%	1.9	1.8	2.0	2.2	1.9	2.0	2.2	1.9	2.4	2.7	2.6	2.3
Long Term												
Full Simulation Period[a]	2.1	2.9	4.4	5.1	5.7	5.7	3.8	2.6	2.7	3.4	2.8	2.9
Water Year Types[b]												
Wet (31%)	2.4	5.2	10.1	8.2	11.0	10.4	7.2	3.7	3.4	3.7	2.9	4.1
Above Normal (25%)	1.9	2.1	3.1	10.3	10.0	8.1	3.6	2.5	2.6	3.6	2.7	2.9
Below Normal (6%)	2.1	2.0	2.1	3.9	4.2	4.2	2.8	2.3	2.7	3.5	2.8	2.6
Dry (13%)	2.1	2.4	2.6	2.7	2.9	4.0	2.8	2.4	2.6	3.8	3.0	2.3
Critical (25%)	2.1	2.1	2.3	2.6	2.4	2.5	2.2	2.0	2.4	2.7	2.6	2.4

Alternative 7 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.3	-0.6	-1.0	-2.0	-1.5	-1.4	-1.4	-0.5	-0.1	-0.3	-0.3	-1.0
20%	-0.4	-0.5	-0.5	-1.6	-1.7	-1.9	-0.4	-0.3	-0.1	-0.6	-0.2	-0.6
30%	-0.4	-0.6	-0.3	-1.6	-1.9	-2.1	-0.5	-0.1	0.0	-0.5	-0.3	-0.7
40%	-0.3	-0.7	-0.2	-0.7	-1.3	-2.0	0.0	0.0	0.1	-0.6	-0.3	0.0
50%	-0.3	-0.4	-0.3	-0.7	-0.7	-1.1	0.0	0.0	0.1	-0.4	-0.1	0.1
60%	-0.3	0.0	-0.3	-0.5	0.3	-0.7	0.0	0.0	0.2	-0.2	0.0	0.1
70%	-0.3	0.0	-0.4	-0.6	0.0	-0.4	0.0	0.1	0.3	-0.3	0.3	0.2
80%	-0.1	0.0	0.1	-0.5	-0.1	-0.1	0.0	0.2	0.4	-0.2	0.5	0.2
90%	0.0	0.0	0.1	-0.2	-0.1	-0.2	0.1	0.3	0.4	0.0	0.5	0.3
Long Term												
Full Simulation Period[a]	-0.3	-0.3	-0.4	-0.9	-0.8	-1.0	-0.3	-0.1	0.1	-0.3	0.0	-0.2
Water Year Types[b]												
Wet (31%)	-0.5	-0.6	-0.8	-1.7	-1.6	-1.6	-0.8	-0.5	-0.1	-0.3	-0.2	-0.8
Above Normal (25%)	-0.2	-0.1	-0.4	-1.5	-1.7	-2.1	-1.0	-0.2	0.0	-0.7	-0.4	-0.7
Below Normal (6%)	-0.6	-0.8	-0.5	-0.6	-1.3	-0.9	0.0	0.0	-0.1	0.2	0.1	0.0
Dry (13%)	-0.3	-0.4	-0.2	-0.3	-0.5	-0.8	0.0	-0.1	0.1	-0.2	0.0	0.1
Critical (25%)	-0.2	-0.1	-0.1	-0.6	0.1	-0.3	0.0	0.2	0.4	-0.3	0.5	0.3

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-29-2-24. Sacramento River at Freeport, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.8	5.4	12.4	12.4	14.1	13.1	9.0	3.9	3.0	4.5	3.3	5.1
20%	2.7	4.2	3.8	10.8	13.3	11.3	4.3	2.9	2.8	4.5	3.2	4.3
30%	2.6	3.2	3.7	7.6	8.4	8.8	3.3	2.7	2.6	4.2	3.2	3.6
40%	2.5	2.8	3.2	4.5	5.5	6.3	2.8	2.4	2.5	4.1	3.1	2.5
50%	2.4	2.5	3.1	4.3	4.4	5.3	2.6	2.2	2.4	3.8	2.9	2.3
60%	2.4	2.1	2.7	3.6	3.1	4.4	2.5	2.1	2.3	3.6	2.8	2.2
70%	2.3	2.0	2.6	3.2	2.6	3.3	2.4	2.0	2.2	3.4	2.4	2.1
80%	2.1	1.9	2.0	2.7	2.4	2.5	2.3	1.8	2.1	3.0	2.2	2.0
90%	1.9	1.8	1.9	2.3	1.9	2.2	2.1	1.6	2.0	2.7	2.1	2.0
Long Term												
Full Simulation Period[a]	2.4	3.3	4.8	6.0	6.5	6.7	4.2	2.7	2.6	3.7	2.8	3.0
Water Year Types[b]												
Wet (31%)	2.8	5.8	10.9	9.8	12.5	12.0	8.0	4.2	3.5	4.0	3.2	5.0
Above Normal (25%)	2.1	2.2	3.5	11.8	11.8	10.1	4.6	2.7	2.6	4.3	3.2	3.6
Below Normal (6%)	2.7	2.8	2.6	4.5	5.5	5.1	2.8	2.2	2.8	3.3	2.8	2.5
Dry (13%)	2.3	2.8	2.9	3.0	3.4	4.9	2.8	2.5	2.4	4.0	3.0	2.2
Critical (25%)	2.3	2.2	2.4	3.2	2.3	2.8	2.3	1.8	2.0	3.1	2.2	2.0

Alternative 8 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.5	5.3	11.5	10.5	12.5	11.7	8.1	4.0	2.8	3.1	2.8	3.9
20%	2.2	3.9	3.5	9.2	11.5	9.3	4.6	3.2	2.6	2.9	2.7	3.7
30%	2.2	2.6	3.3	6.4	7.0	7.5	3.3	2.9	2.6	2.8	2.7	2.8
40%	2.1	2.2	3.0	4.2	4.5	4.7	3.2	2.5	2.6	2.7	2.7	2.4
50%	2.1	2.1	2.8	3.9	4.1	4.6	3.2	2.5	2.5	2.7	2.7	2.3
60%	2.0	2.1	2.4	3.4	3.6	4.1	2.9	2.4	2.5	2.7	2.6	2.3
70%	2.0	2.0	2.2	2.7	2.8	3.4	2.7	2.4	2.4	2.6	2.6	2.3
80%	1.9	1.9	2.1	2.3	2.4	2.8	2.6	2.3	2.4	2.5	2.5	2.2
90%	1.9	1.8	2.0	2.2	2.0	2.5	2.4	2.0	2.3	2.5	2.5	2.2
Long Term												
Full Simulation Period[a]	2.1	3.0	4.4	5.2	5.9	6.0	4.2	3.0	2.7	2.7	2.7	2.8
Water Year Types[b]												
Wet (31%)	2.3	5.3	10.1	8.4	10.9	10.4	7.5	4.4	3.5	3.1	2.8	4.0
Above Normal (25%)	2.0	2.0	3.1	10.5	10.1	8.3	4.2	2.9	2.5	2.6	2.7	2.8
Below Normal (6%)	2.1	2.0	2.1	4.2	5.3	4.6	3.2	3.2	2.6	2.5	2.6	2.3
Dry (13%)	2.0	2.5	2.6	2.8	3.3	4.7	3.4	2.6	2.5	2.7	2.6	2.3
Critical (25%)	2.1	2.2	2.3	2.7	2.5	2.8	2.4	2.2	2.4	2.6	2.5	2.3

Alternative 8 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.3	-0.2	-1.0	-1.9	-1.6	-1.4	-1.0	0.2	-0.2	-1.5	-0.5	-1.2
20%	-0.5	-0.4	-0.4	-1.6	-1.8	-2.0	0.3	0.2	-0.2	-1.6	-0.5	-0.6
30%	-0.4	-0.6	-0.4	-1.3	-1.4	-1.3	0.0	0.2	-0.1	-1.5	-0.5	-0.8
40%	-0.4	-0.6	-0.2	-0.3	-1.0	-1.6	0.4	0.1	0.1	-1.3	-0.4	-0.1
50%	-0.4	-0.4	-0.3	-0.4	-0.3	-0.7	0.6	0.3	0.1	-1.1	-0.2	0.0
60%	-0.3	0.0	-0.3	-0.2	0.5	-0.3	0.5	0.3	0.2	-0.9	-0.1	0.1
70%	-0.3	0.0	-0.4	-0.5	0.2	0.1	0.3	0.4	0.2	-0.8	0.2	0.2
80%	-0.2	0.0	0.0	-0.5	0.0	0.3	0.3	0.5	0.4	-0.4	0.3	0.2
90%	0.0	0.1	0.1	-0.1	0.0	0.3	0.3	0.4	0.4	-0.2	0.3	0.2
Long Term												
Full Simulation Period[a]	-0.3	-0.3	-0.4	-0.7	-0.6	-0.7	0.0	0.3	0.1	-0.9	-0.1	-0.3
Water Year Types[b]												
Wet (31%)	-0.5	-0.4	-0.8	-1.4	-1.6	-1.6	-0.6	0.2	0.0	-0.9	-0.4	-1.0
Above Normal (25%)	-0.1	-0.2	-0.4	-1.2	-1.6	-1.8	-0.4	0.2	-0.1	-1.6	-0.5	-0.8
Below Normal (6%)	-0.6	-0.8	-0.5	-0.3	-0.2	-0.5	0.4	0.9	-0.2	-0.8	-0.2	-0.3
Dry (13%)	-0.3	-0.3	-0.2	-0.1	-0.2	-0.1	0.6	0.1	0.0	-1.2	-0.4	0.1
Critical (25%)	-0.2	0.0	-0.1	-0.5	0.2	0.0	0.2	0.4	0.4	-0.4	0.4	0.3

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-29-2-25. Sacramento River at Freeport, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.8	5.4	12.4	12.4	14.1	13.1	9.0	3.9	3.0	4.5	3.3	5.1
20%	2.7	4.2	3.8	10.8	13.3	11.3	4.3	2.9	2.8	4.5	3.2	4.3
30%	2.6	3.2	3.7	7.6	8.4	8.8	3.3	2.7	2.6	4.2	3.2	3.6
40%	2.5	2.8	3.2	4.5	5.5	6.3	2.8	2.4	2.5	4.1	3.1	2.5
50%	2.4	2.5	3.1	4.3	4.4	5.3	2.6	2.2	2.4	3.8	2.9	2.3
60%	2.4	2.1	2.7	3.6	3.1	4.4	2.5	2.1	2.3	3.6	2.8	2.2
70%	2.3	2.0	2.6	3.2	2.6	3.3	2.4	2.0	2.2	3.4	2.4	2.1
80%	2.1	1.9	2.0	2.7	2.4	2.5	2.3	1.8	2.1	3.0	2.2	2.0
90%	1.9	1.8	1.9	2.3	1.9	2.2	2.1	1.6	2.0	2.7	2.1	2.0
Long Term												
Full Simulation Period[a]	2.4	3.3	4.8	6.0	6.5	6.7	4.2	2.7	2.6	3.7	2.8	3.0
Water Year Types[b]												
Wet (31%)	2.8	5.8	10.9	9.8	12.5	12.0	8.0	4.2	3.5	4.0	3.2	5.0
Above Normal (25%)	2.1	2.2	3.5	11.8	11.8	10.1	4.6	2.7	2.6	4.3	3.2	3.6
Below Normal (6%)	2.7	2.8	2.6	4.5	5.5	5.1	2.8	2.2	2.8	3.3	2.8	2.5
Dry (13%)	2.3	2.8	2.9	3.0	3.4	4.9	2.8	2.5	2.4	4.0	3.0	2.2
Critical (25%)	2.3	2.2	2.4	3.2	2.3	2.8	2.3	1.8	2.0	3.1	2.2	2.0

Alternative 9 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.1	5.6	12.2	11.9	14.0	13.1	8.6	4.1	3.3	4.2	3.4	5.5
20%	3.0	4.3	3.8	10.5	13.0	10.9	4.1	3.3	3.0	4.0	3.4	4.7
30%	2.8	3.4	3.6	7.0	7.8	8.0	3.3	3.0	2.9	3.9	3.4	3.8
40%	2.6	2.8	3.3	4.3	5.2	5.4	2.9	2.9	2.8	3.7	3.4	2.8
50%	2.4	2.5	3.1	4.1	4.2	4.9	2.8	2.7	2.8	3.6	3.2	2.5
60%	2.4	2.3	2.9	3.5	3.0	4.1	2.6	2.5	2.8	3.4	2.9	2.4
70%	2.3	2.2	2.8	2.9	2.7	3.2	2.6	2.4	2.6	3.3	2.8	2.3
80%	2.2	2.2	2.6	2.5	2.6	2.6	2.5	2.1	2.4	2.9	2.6	2.3
90%	2.0	2.0	2.4	2.4	2.2	2.4	2.4	2.0	2.4	2.7	2.4	2.3
Long Term												
Full Simulation Period[a]	2.6	3.4	4.9	5.8	6.4	6.5	4.2	3.1	2.9	3.6	3.0	3.3
Water Year Types[b]												
Wet (31%)	3.0	5.9	10.8	9.4	12.3	11.8	8.0	4.4	3.8	3.8	3.4	5.3
Above Normal (25%)	2.1	2.4	3.4	11.6	11.5	9.5	4.3	2.8	2.8	4.1	3.4	3.8
Below Normal (6%)	2.8	3.1	2.8	4.3	5.2	4.9	2.9	2.4	3.0	3.4	2.9	2.8
Dry (13%)	2.5	2.8	3.0	3.0	3.3	4.6	3.0	3.1	2.8	3.7	3.2	2.4
Critical (25%)	2.4	2.5	2.7	3.0	2.5	2.9	2.4	2.2	2.4	3.1	2.5	2.3

Alternative 9 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.3	0.2	-0.3	-0.5	-0.1	-0.1	-0.5	0.2	0.3	-0.4	0.1	0.4
20%	0.3	0.1	-0.1	-0.4	-0.3	-0.5	-0.2	0.4	0.2	-0.4	0.2	0.4
30%	0.2	0.2	-0.1	-0.6	-0.6	-0.8	0.0	0.3	0.2	-0.3	0.2	0.2
40%	0.2	0.0	0.1	-0.2	-0.3	-0.9	0.1	0.4	0.4	-0.3	0.2	0.3
50%	0.0	0.0	0.0	-0.2	-0.2	-0.4	0.3	0.5	0.4	-0.3	0.3	0.2
60%	0.0	0.2	0.2	-0.1	-0.1	-0.3	0.2	0.3	0.5	-0.2	0.2	0.2
70%	0.0	0.3	0.2	-0.3	0.1	-0.1	0.2	0.4	0.3	0.0	0.4	0.2
80%	0.1	0.3	0.5	-0.2	0.2	0.1	0.2	0.3	0.3	-0.1	0.3	0.3
90%	0.2	0.3	0.4	0.1	0.2	0.2	0.3	0.4	0.4	0.0	0.3	0.3
Long Term												
Full Simulation Period[a]	0.1	0.2	0.1	-0.2	-0.1	-0.2	0.1	0.3	0.3	-0.1	0.2	0.3
Water Year Types[b]												
Wet (31%)	0.2	0.1	-0.1	-0.4	-0.2	-0.2	-0.1	0.2	0.3	-0.2	0.2	0.4
Above Normal (25%)	0.0	0.2	-0.1	-0.2	-0.3	-0.6	-0.2	0.2	0.2	-0.1	0.2	0.2
Below Normal (6%)	0.1	0.3	0.2	-0.2	-0.3	-0.2	0.1	0.2	0.2	0.1	0.2	0.3
Dry (13%)	0.1	0.0	0.1	0.0	-0.1	-0.3	0.2	0.6	0.4	-0.3	0.1	0.2
Critical (25%)	0.1	0.3	0.3	-0.2	0.2	0.0	0.2	0.4	0.4	0.0	0.3	0.3

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

C.30. Sacramento River downstream of North Delta Diversion Surface Elevation

Table C-30-1-1. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.9	6.2	9.6	9.1	10.8	10.1	7.2	4.8	4.1	4.5	4.2	4.2
20%	3.4	5.3	4.5	7.9	10.0	8.4	4.2	3.7	3.7	4.3	4.0	3.7
30%	3.4	3.6	4.2	6.2	6.5	6.9	3.8	3.6	3.7	4.2	3.9	3.6
40%	3.3	3.5	4.0	4.7	5.5	5.4	3.5	3.6	3.6	4.2	3.8	3.6
50%	3.3	3.4	3.8	4.6	4.5	5.0	3.4	3.5	3.6	4.2	3.8	3.5
60%	3.3	3.4	3.7	4.1	3.7	4.7	3.4	3.3	3.6	4.1	3.8	3.5
70%	3.2	3.3	3.7	3.7	3.6	3.8	3.3	3.2	3.5	4.1	3.7	3.4
80%	3.1	3.1	3.5	3.5	3.5	3.4	3.1	3.2	3.4	4.0	3.7	3.4
90%	3.1	3.0	3.2	3.3	3.1	3.1	3.0	2.9	3.3	3.9	3.6	3.3
Long Term												
Full Simulation Period[a]	3.4	4.1	5.0	5.5	5.9	5.9	4.3	3.8	3.9	4.2	3.9	3.6
Water Year Types[b]												
Wet (31%)	3.8	6.1	8.7	7.6	9.6	9.5	6.7	5.3	5.0	4.6	4.1	4.3
Above Normal (25%)	3.1	3.3	4.0	9.1	8.8	7.6	4.5	3.8	3.6	4.0	3.8	3.5
Below Normal (6%)	3.4	3.3	3.2	4.7	5.7	4.9	3.4	3.5	3.5	4.0	3.7	3.4
Dry (13%)	3.3	3.7	3.8	3.9	3.9	4.8	3.5	3.4	3.7	4.2	4.0	3.5
Critical (25%)	3.3	3.4	3.6	3.8	3.4	3.4	3.1	3.0	3.4	4.0	3.6	3.3

No Action Alternative (LLT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5.0	6.5	10.5	10.4	11.6	10.8	8.1	5.7	5.4	6.0	5.6	6.2
20%	4.9	5.7	5.6	9.5	10.9	9.6	5.6	5.1	5.3	5.9	5.4	5.7
30%	4.8	5.2	5.6	7.5	7.9	7.9	5.1	5.0	5.2	5.8	5.4	5.3
40%	4.8	5.0	5.4	6.0	6.4	6.3	4.9	4.9	5.1	5.7	5.3	5.0
50%	4.8	4.9	5.2	5.9	5.7	6.0	4.8	4.7	5.0	5.7	5.3	5.0
60%	4.8	4.8	5.1	5.4	5.1	5.6	4.7	4.7	5.0	5.7	5.2	4.9
70%	4.7	4.7	4.9	5.3	4.9	5.0	4.7	4.7	5.0	5.7	5.1	4.9
80%	4.6	4.7	4.9	5.1	4.9	4.7	4.6	4.7	4.9	5.4	5.1	4.9
90%	4.6	4.5	4.8	4.7	4.6	4.5	4.5	4.5	4.9	5.3	5.0	4.7
Long Term												
Full Simulation Period[a]	4.8	5.3	6.3	6.8	7.1	6.9	5.6	5.0	5.2	5.7	5.3	5.2
Water Year Types[b]												
Wet (31%)	5.1	6.7	9.7	8.9	10.6	10.1	7.9	5.8	5.6	5.9	5.6	6.1
Above Normal (25%)	4.6	4.7	5.4	10.1	10.1	8.7	5.6	5.0	5.0	5.7	5.3	5.3
Below Normal (6%)	4.8	5.0	4.9	6.0	6.4	5.9	4.8	4.7	5.0	5.3	5.1	4.9
Dry (13%)	4.8	5.0	5.2	5.2	5.2	5.9	4.8	4.9	5.1	5.8	5.4	4.9
Critical (25%)	4.8	4.8	5.0	5.2	4.7	4.8	4.6	4.6	4.9	5.4	5.0	4.8

No Action Alternative (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.2	0.2	0.8	1.3	0.8	0.7	1.0	0.9	1.3	1.4	1.4	2.0
20%	1.5	0.4	1.2	1.7	0.9	1.2	1.4	1.5	1.5	1.6	1.4	2.0
30%	1.4	1.6	1.3	1.2	1.3	1.0	1.3	1.4	1.4	1.6	1.5	1.6
40%	1.5	1.5	1.4	1.3	0.8	0.9	1.4	1.3	1.5	1.5	1.5	1.4
50%	1.5	1.5	1.4	1.3	1.2	1.1	1.4	1.2	1.4	1.5	1.5	1.4
60%	1.5	1.4	1.4	1.3	1.4	0.8	1.3	1.4	1.5	1.5	1.5	1.4
70%	1.5	1.5	1.3	1.5	1.3	1.2	1.4	1.4	1.5	1.6	1.4	1.5
80%	1.5	1.6	1.4	1.7	1.4	1.3	1.5	1.5	1.5	1.4	1.4	1.5
90%	1.5	1.5	1.6	1.5	1.4	1.4	1.4	1.5	1.5	1.4	1.4	1.4
Long Term												
Full Simulation Period[a]	1.4	1.2	1.3	1.3	1.2	1.0	1.3	1.2	1.3	1.5	1.4	1.6
Water Year Types[b]												
Wet (31%)	1.3	0.7	1.0	1.3	0.9	0.6	1.1	0.5	0.6	1.3	1.5	1.8
Above Normal (25%)	1.5	1.4	1.4	1.0	1.3	1.1	1.0	1.2	1.4	1.7	1.6	1.8
Below Normal (6%)	1.5	1.7	1.7	1.3	0.6	0.9	1.4	1.1	1.5	1.3	1.4	1.5
Dry (13%)	1.5	1.3	1.3	1.4	1.3	1.1	1.4	1.5	1.4	1.5	1.4	1.3
Critical (25%)	1.5	1.5	1.4	1.5	1.4	1.3	1.5	1.6	1.5	1.4	1.4	1.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

Table C-30-1-2. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.9	6.2	9.6	9.1	10.8	10.1	7.2	4.8	4.1	4.5	4.2	4.2
20%	3.4	5.3	4.5	7.9	10.0	8.4	4.2	3.7	3.7	4.3	4.0	3.7
30%	3.4	3.6	4.2	6.2	6.5	6.9	3.8	3.6	3.7	4.2	3.9	3.6
40%	3.3	3.5	4.0	4.7	5.5	5.4	3.5	3.6	3.6	4.2	3.8	3.6
50%	3.3	3.4	3.8	4.6	4.5	5.0	3.4	3.5	3.6	4.2	3.8	3.5
60%	3.3	3.4	3.7	4.1	3.7	4.7	3.4	3.3	3.6	4.1	3.8	3.5
70%	3.2	3.3	3.7	3.7	3.6	3.8	3.3	3.2	3.5	4.1	3.7	3.4
80%	3.1	3.1	3.5	3.5	3.5	3.4	3.1	3.2	3.4	4.0	3.7	3.4
90%	3.1	3.0	3.2	3.3	3.1	3.1	3.0	2.9	3.3	3.9	3.6	3.3
Long Term												
Full Simulation Period[a]	3.4	4.1	5.0	5.5	5.9	5.9	4.3	3.8	3.9	4.2	3.9	3.6
Water Year Types[b]												
Wet (31%)	3.8	6.1	8.7	7.6	9.6	9.5	6.7	5.3	5.0	4.6	4.1	4.3
Above Normal (25%)	3.1	3.3	4.0	9.1	8.8	7.6	4.5	3.8	3.6	4.0	3.8	3.5
Below Normal (6%)	3.4	3.3	3.2	4.7	5.7	4.9	3.4	3.5	3.5	4.0	3.7	3.4
Dry (13%)	3.3	3.7	3.8	3.9	3.9	4.8	3.5	3.4	3.7	4.2	4.0	3.5
Critical (25%)	3.3	3.4	3.6	3.8	3.4	3.4	3.1	3.0	3.4	4.0	3.6	3.3

Alternative 1A,1B,1C (LLT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.9	5.8	9.2	8.8	10.4	9.8	7.0	4.9	4.8	5.2	4.9	4.7
20%	4.7	5.2	5.0	7.8	9.7	8.4	4.7	4.6	4.7	5.0	4.7	4.6
30%	4.6	4.6	5.0	6.6	6.2	6.8	4.6	4.4	4.6	5.0	4.7	4.5
40%	4.5	4.3	4.9	5.3	5.2	5.1	4.3	4.3	4.5	4.9	4.7	4.4
50%	4.4	4.3	4.7	5.1	4.9	4.8	4.3	4.3	4.4	4.8	4.6	4.4
60%	4.2	4.3	4.6	4.8	4.5	4.7	4.2	4.3	4.4	4.8	4.5	4.4
70%	4.2	4.2	4.5	4.6	4.4	4.4	4.2	4.2	4.4	4.6	4.5	4.4
80%	4.2	4.1	4.4	4.4	4.4	4.2	4.2	4.2	4.3	4.5	4.4	4.3
90%	4.1	4.0	4.3	4.3	4.2	4.1	4.0	4.1	4.3	4.4	4.3	4.2
Long Term												
Full Simulation Period[a]	4.4	4.8	5.6	5.9	6.3	6.1	5.0	4.5	4.5	4.8	4.6	4.5
Water Year Types[b]												
Wet (31%)	4.5	6.2	8.7	7.7	9.3	9.1	7.1	5.0	4.9	5.0	4.8	4.8
Above Normal (25%)	4.3	4.1	4.9	8.6	8.8	7.6	4.6	4.4	4.4	4.8	4.5	4.3
Below Normal (6%)	4.8	4.3	4.3	5.3	5.2	4.7	4.2	4.2	4.3	4.3	4.4	4.3
Dry (13%)	4.2	4.4	4.7	4.7	4.6	5.1	4.3	4.5	4.6	5.0	4.7	4.4
Critical (25%)	4.5	4.2	4.5	4.5	4.3	4.2	4.1	4.1	4.3	4.6	4.4	4.3

Alternative 1A,1B,1C (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.0	**-0.5**	**-0.5**	**-0.3**	**-0.4**	**-0.3**	**-0.2**	0.1	0.7	0.7	0.7	0.6
20%	1.2	**-0.1**	0.6	**0.0**	**-0.3**	**0.0**	0.5	0.9	0.9	0.7	0.7	0.9
30%	1.2	1.0	0.7	0.4	**-0.3**	**-0.2**	0.7	0.8	0.9	0.7	0.8	0.9
40%	1.2	0.8	0.9	0.6	**-0.3**	**-0.4**	0.9	0.8	0.9	0.7	0.8	0.9
50%	1.1	0.9	0.9	0.5	0.5	**-0.2**	0.9	0.8	0.9	0.7	0.8	0.9
60%	1.0	0.9	0.9	0.7	0.8	**0.0**	0.8	1.0	0.8	0.7	0.7	0.9
70%	1.0	0.9	0.8	0.8	0.9	0.6	0.9	1.0	0.9	0.5	0.8	1.0
80%	1.1	1.0	0.8	0.9	0.9	0.8	1.0	1.0	0.9	0.6	0.7	0.9
90%	1.0	1.0	1.1	1.0	1.1	1.0	1.0	1.1	1.0	0.5	0.8	1.0
Long Term												
Full Simulation Period[a]	1.0	0.6	0.7	0.5	0.4	0.2	0.7	0.7	0.7	0.6	0.7	0.8
Water Year Types[b]												
Wet (31%)	0.7	0.2	0.0	0.1	**-0.3**	**-0.4**	0.4	**-0.2**	**-0.1**	0.5	0.7	0.5
Above Normal (25%)	1.2	0.8	0.9	**-0.5**	0.0	**0.0**	0.1	0.6	0.8	0.8	0.8	0.8
Below Normal (6%)	1.4	1.0	1.1	0.6	**-0.5**	**-0.2**	0.8	0.6	0.8	0.3	0.6	0.9
Dry (13%)	0.9	0.7	0.8	0.9	0.7	0.2	0.8	1.0	0.9	0.8	0.7	0.9
Critical (25%)	1.2	0.9	0.9	0.8	0.9	0.7	1.0	1.1	0.9	0.6	0.8	1.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-30-1-3. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.9	6.2	9.6	9.1	10.8	10.1	7.2	4.8	4.1	4.5	4.2	4.2
20%	3.4	5.3	4.5	7.9	10.0	8.4	4.2	3.7	3.7	4.3	4.0	3.7
30%	3.4	3.6	4.2	6.2	6.5	6.9	3.8	3.6	3.7	4.2	3.9	3.6
40%	3.3	3.5	4.0	4.7	5.5	5.4	3.5	3.6	3.6	4.2	3.8	3.6
50%	3.3	3.4	3.8	4.6	4.5	5.0	3.4	3.5	3.6	4.2	3.8	3.5
60%	3.3	3.4	3.7	4.1	3.7	4.7	3.4	3.3	3.6	4.1	3.8	3.5
70%	3.2	3.3	3.7	3.7	3.6	3.8	3.3	3.2	3.5	4.1	3.7	3.4
80%	3.1	3.1	3.5	3.5	3.5	3.4	3.1	3.2	3.4	4.0	3.7	3.4
90%	3.1	3.0	3.2	3.3	3.1	3.1	3.0	2.9	3.3	3.9	3.6	3.3
Long Term												
Full Simulation Period[a]	3.4	4.1	5.0	5.5	5.9	5.9	4.3	3.8	3.9	4.2	3.9	3.6
Water Year Types[b]												
Wet (31%)	3.8	6.1	8.7	7.6	9.6	9.5	6.7	5.3	5.0	4.6	4.1	4.3
Above Normal (25%)	3.1	3.3	4.0	9.1	8.8	7.6	4.5	3.8	3.6	4.0	3.8	3.5
Below Normal (6%)	3.4	3.3	3.2	4.7	5.7	4.9	3.4	3.5	3.5	4.0	3.7	3.4
Dry (13%)	3.3	3.7	3.8	3.9	3.9	4.8	3.5	3.4	3.7	4.2	4.0	3.5
Critical (25%)	3.3	3.4	3.6	3.8	3.4	3.4	3.1	3.0	3.4	4.0	3.6	3.3

Alternative 2A,2B,2C (LLT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.5	5.7	9.0	8.7	10.3	9.6	7.0	4.9	4.9	5.2	4.8	5.4
20%	4.5	5.2	5.0	7.9	9.7	8.4	4.8	4.7	4.7	5.1	4.7	5.1
30%	4.4	4.4	4.9	6.5	6.2	6.4	4.5	4.4	4.6	5.0	4.7	4.6
40%	4.4	4.3	4.8	5.1	5.2	5.1	4.3	4.4	4.5	5.0	4.7	4.5
50%	4.3	4.3	4.7	5.0	4.9	4.8	4.2	4.3	4.5	4.9	4.6	4.4
60%	4.3	4.3	4.7	4.8	4.5	4.7	4.2	4.2	4.4	4.8	4.6	4.4
70%	4.2	4.2	4.4	4.6	4.4	4.3	4.2	4.2	4.4	4.7	4.5	4.4
80%	4.1	4.1	4.3	4.6	4.3	4.2	4.1	4.2	4.4	4.6	4.4	4.3
90%	4.1	4.0	4.3	4.3	4.1	4.1	4.0	4.0	4.3	4.4	4.4	4.2
Long Term												
Full Simulation Period[a]	4.3	4.7	5.6	5.9	6.2	6.0	5.0	4.5	4.6	4.9	4.6	4.6
Water Year Types[b]												
Wet (31%)	4.5	6.0	8.6	7.7	9.3	9.0	7.1	5.0	5.0	5.1	4.8	5.3
Above Normal (25%)	4.2	4.1	4.8	8.4	8.6	7.6	4.6	4.4	4.4	4.9	4.6	4.5
Below Normal (6%)	4.2	4.2	4.3	5.3	5.2	4.8	4.2	4.2	4.4	4.4	4.3	4.2
Dry (13%)	4.2	4.4	4.6	4.6	4.6	4.8	4.3	4.5	4.6	5.0	4.6	4.4
Critical (25%)	4.3	4.3	4.5	4.6	4.2	4.2	4.1	4.1	4.3	4.7	4.4	4.3

Alternative 2A,2B,2C (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.6	**-0.6**	**-0.7**	**-0.4**	**-0.6**	**-0.5**	**-0.2**	0.1	0.8	0.7	0.6	1.2
20%	1.0	**0.0**	0.5	0.0	**-0.3**	**0.0**	0.5	1.1	0.9	0.8	0.6	1.4
30%	1.0	0.8	0.7	0.3	**-0.4**	**-0.5**	0.7	0.8	0.9	0.8	0.8	0.9
40%	1.0	0.8	0.9	0.4	**-0.3**	**-0.3**	0.8	0.8	0.9	0.8	0.8	0.9
50%	1.0	0.9	0.9	0.4	0.4	**-0.1**	0.8	0.8	0.9	0.7	0.8	0.9
60%	1.0	0.9	1.0	0.7	0.8	**0.0**	0.8	1.0	0.8	0.7	0.8	0.9
70%	1.0	1.0	0.8	0.9	0.8	0.5	0.8	1.0	0.9	0.6	0.7	1.0
80%	1.0	1.0	0.8	1.1	0.8	0.8	1.0	1.0	1.0	0.6	0.7	1.0
90%	1.0	1.0	1.1	1.0	1.0	1.0	1.0	1.1	0.9	0.5	0.8	0.9
Long Term												
Full Simulation Period[a]	0.9	0.6	0.6	0.4	0.3	0.1	0.6	0.7	0.7	0.6	0.7	1.0
Water Year Types[b]												
Wet (31%)	0.7	**-0.1**	**-0.1**	0.1	**-0.3**	**-0.5**	0.3	**-0.3**	**0.0**	0.5	0.7	1.0
Above Normal (25%)	1.1	0.8	0.8	**-0.8**	**-0.2**	**0.0**	0.0	0.6	0.8	1.0	0.8	1.0
Below Normal (6%)	0.8	1.0	1.1	0.6	**-0.5**	**-0.1**	0.8	0.6	0.9	0.4	0.6	0.8
Dry (13%)	1.0	0.7	0.8	0.7	0.7	0.0	0.8	1.0	0.9	0.7	0.6	0.9
Critical (25%)	1.0	0.9	0.9	0.9	0.9	0.8	1.0	1.1	0.9	0.6	0.8	1.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-30-1-4. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.9	6.2	9.6	9.1	10.8	10.1	7.2	4.8	4.1	4.5	4.2	4.2
20%	3.4	5.3	4.5	7.9	10.0	8.4	4.2	3.7	3.7	4.3	4.0	3.7
30%	3.4	3.6	4.2	6.2	6.5	6.9	3.8	3.6	3.7	4.2	3.9	3.6
40%	3.3	3.5	4.0	4.7	5.5	5.4	3.5	3.6	3.6	4.2	3.8	3.6
50%	3.3	3.4	3.8	4.6	4.5	5.0	3.4	3.5	3.6	4.2	3.8	3.5
60%	3.3	3.4	3.7	4.1	3.7	4.7	3.4	3.3	3.6	4.1	3.8	3.5
70%	3.2	3.3	3.7	3.7	3.6	3.8	3.3	3.2	3.5	4.1	3.7	3.4
80%	3.1	3.1	3.5	3.5	3.5	3.4	3.1	3.2	3.4	4.0	3.7	3.4
90%	3.1	3.0	3.2	3.3	3.1	3.1	3.0	2.9	3.3	3.9	3.6	3.3
Long Term												
Full Simulation Period[a]	3.4	4.1	5.0	5.5	5.9	5.9	4.3	3.8	3.9	4.2	3.9	3.6
Water Year Types[b]												
Wet (31%)	3.8	6.1	8.7	7.6	9.6	9.5	6.7	5.3	5.0	4.6	4.1	4.3
Above Normal (25%)	3.1	3.3	4.0	9.1	8.8	7.6	4.5	3.8	3.6	4.0	3.8	3.5
Below Normal (6%)	3.4	3.3	3.2	4.7	5.7	4.9	3.4	3.5	3.5	4.0	3.7	3.4
Dry (13%)	3.3	3.7	3.8	3.9	3.9	4.8	3.5	3.4	3.7	4.2	4.0	3.5
Critical (25%)	3.3	3.4	3.6	3.8	3.4	3.4	3.1	3.0	3.4	4.0	3.6	3.3

Alternative 3 (LLT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.9	5.9	9.6	9.0	10.5	9.6	7.0	5.0	4.9	5.1	4.8	4.7
20%	4.8	5.2	5.0	8.3	9.6	8.3	4.8	4.7	4.7	5.0	4.7	4.5
30%	4.6	4.3	5.0	6.4	6.6	6.7	4.5	4.4	4.6	5.0	4.7	4.5
40%	4.5	4.3	4.9	5.3	5.3	5.2	4.3	4.4	4.5	4.9	4.7	4.4
50%	4.3	4.3	4.7	5.0	4.9	4.9	4.2	4.3	4.4	4.8	4.6	4.4
60%	4.2	4.2	4.6	4.7	4.5	4.7	4.2	4.3	4.4	4.8	4.5	4.4
70%	4.2	4.2	4.4	4.6	4.4	4.5	4.2	4.2	4.4	4.7	4.5	4.4
80%	4.2	4.1	4.4	4.5	4.4	4.2	4.2	4.2	4.3	4.5	4.4	4.3
90%	4.1	4.0	4.2	4.3	4.1	4.1	4.0	4.1	4.3	4.4	4.3	4.2
Long Term												
Full Simulation Period[a]	4.4	4.7	5.7	5.9	6.3	6.1	5.0	4.5	4.6	4.8	4.6	4.5
Water Year Types[b]												
Wet (31%)	4.5	6.1	8.9	7.6	9.4	8.9	7.1	5.1	5.0	5.0	4.8	4.8
Above Normal (25%)	4.4	4.1	4.8	8.8	8.9	7.4	4.7	4.4	4.4	4.8	4.5	4.3
Below Normal (6%)	4.5	4.2	4.3	5.3	5.3	4.9	4.2	4.2	4.3	4.2	4.4	4.3
Dry (13%)	4.2	4.4	4.6	4.7	4.6	5.1	4.3	4.5	4.6	5.0	4.6	4.4
Critical (25%)	4.6	4.2	4.5	4.6	4.3	4.2	4.1	4.1	4.3	4.6	4.4	4.4

Alternative 3 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.0	**-0.3**	**0.0**	**-0.1**	**-0.3**	**-0.5**	**-0.2**	0.2	0.8	0.6	0.6	0.6
20%	1.4	**-0.1**	0.5	0.4	**-0.3**	**-0.1**	0.5	1.0	0.9	0.7	0.7	0.8
30%	1.1	0.7	0.7	0.2	0.1	**-0.2**	0.7	0.8	0.8	0.7	0.8	0.9
40%	1.2	0.8	0.9	0.5	**-0.2**	**-0.2**	0.8	0.8	0.9	0.7	0.8	0.9
50%	1.0	0.8	0.8	0.4	0.4	**-0.1**	0.8	0.8	0.9	0.7	0.8	0.9
60%	1.0	0.9	0.9	0.6	0.8	**0.0**	0.8	1.0	0.8	0.6	0.7	0.9
70%	1.0	1.0	0.8	0.8	0.8	0.7	0.9	1.0	0.9	0.6	0.8	1.0
80%	1.1	1.0	0.8	1.0	0.9	0.8	1.0	1.0	0.9	0.6	0.7	0.9
90%	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	0.9	0.6	0.8	0.9
Long Term												
Full Simulation Period[a]	1.1	0.6	0.7	0.5	0.4	0.1	0.7	0.7	0.7	0.6	0.7	0.8
Water Year Types[b]												
Wet (31%)	0.7	0.1	0.2	0.1	**-0.2**	**-0.5**	0.3	**-0.2**	**0.0**	0.5	0.7	0.5
Above Normal (25%)	1.3	0.9	0.8	**-0.3**	0.1	**-0.2**	0.1	0.6	0.8	0.8	0.8	0.8
Below Normal (6%)	1.2	1.0	1.1	0.6	**-0.4**	**-0.1**	0.8	0.6	0.8	0.3	0.6	0.9
Dry (13%)	0.9	0.7	0.8	0.8	0.7	0.3	0.8	1.0	0.9	0.8	0.6	0.9
Critical (25%)	1.3	0.9	0.8	0.8	0.9	0.8	1.0	1.1	1.0	0.6	0.8	1.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-30-1-5. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.9	6.2	9.6	9.1	10.8	10.1	7.2	4.8	4.1	4.5	4.2	4.2
20%	3.4	5.3	4.5	7.9	10.0	8.4	4.2	3.7	3.7	4.3	4.0	3.7
30%	3.4	3.6	4.2	6.2	6.5	6.9	3.8	3.6	3.7	4.2	3.9	3.6
40%	3.3	3.5	4.0	4.7	5.5	5.4	3.5	3.6	3.6	4.2	3.8	3.6
50%	3.3	3.4	3.8	4.6	4.5	5.0	3.4	3.5	3.6	4.2	3.8	3.5
60%	3.3	3.4	3.7	4.1	3.7	4.7	3.4	3.3	3.6	4.1	3.8	3.5
70%	3.2	3.3	3.7	3.7	3.6	3.8	3.3	3.2	3.5	4.1	3.7	3.4
80%	3.1	3.1	3.5	3.5	3.5	3.4	3.1	3.2	3.4	4.0	3.7	3.4
90%	3.1	3.0	3.2	3.3	3.1	3.1	3.0	2.9	3.3	3.9	3.6	3.3
Long Term												
Full Simulation Period[a]	3.4	4.1	5.0	5.5	5.9	5.9	4.3	3.8	3.9	4.2	3.9	3.6
Water Year Types[b]												
Wet (31%)	3.8	6.1	8.7	7.6	9.6	9.5	6.7	5.3	5.0	4.6	4.1	4.3
Above Normal (25%)	3.1	3.3	4.0	9.1	8.8	7.6	4.5	3.8	3.6	4.0	3.8	3.5
Below Normal (6%)	3.4	3.3	3.2	4.7	5.7	4.9	3.4	3.5	3.5	4.0	3.7	3.4
Dry (13%)	3.3	3.7	3.8	3.9	3.9	4.8	3.5	3.4	3.7	4.2	4.0	3.5
Critical (25%)	3.3	3.4	3.6	3.8	3.4	3.4	3.1	3.0	3.4	4.0	3.6	3.3

Alternative 4 H1 (LLT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.6	5.9	9.4	8.8	10.5	9.3	6.9	4.9	4.8	5.2	4.9	4.7
20%	4.4	5.2	5.1	8.0	9.3	8.0	4.7	4.6	4.7	5.2	4.8	4.7
30%	4.4	4.3	5.0	6.3	6.4	6.7	4.5	4.4	4.6	5.1	4.7	4.5
40%	4.4	4.3	4.8	5.0	5.2	5.1	4.3	4.4	4.5	5.0	4.7	4.4
50%	4.3	4.3	4.7	5.0	4.8	4.8	4.2	4.3	4.4	4.9	4.6	4.4
60%	4.3	4.3	4.7	4.9	4.5	4.7	4.2	4.2	4.4	4.8	4.6	4.4
70%	4.2	4.2	4.5	4.7	4.4	4.4	4.2	4.2	4.4	4.7	4.5	4.4
80%	4.1	4.0	4.3	4.7	4.3	4.2	4.1	4.2	4.3	4.6	4.4	4.3
90%	4.1	4.0	4.2	4.4	4.2	4.1	4.0	4.1	4.3	4.4	4.4	4.3
Long Term												
Full Simulation Period[a]	4.3	4.7	5.6	5.9	6.2	6.0	4.9	4.5	4.5	4.9	4.6	4.5
Water Year Types[b]												
Wet (31%)	4.5	6.1	8.7	7.5	9.3	8.8	6.9	5.0	4.9	5.1	4.8	4.8
Above Normal (25%)	4.1	4.1	4.8	8.7	8.9	7.3	4.6	4.4	4.4	5.0	4.6	4.3
Below Normal (6%)	4.4	4.3	4.3	5.3	5.2	4.8	4.2	4.2	4.4	4.4	4.4	4.3
Dry (13%)	4.2	4.4	4.6	4.6	4.5	5.1	4.3	4.5	4.6	5.0	4.7	4.4
Critical (25%)	4.3	4.2	4.5	4.7	4.3	4.2	4.1	4.1	4.3	4.6	4.4	4.3

Alternative 4 H1 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.7	**-0.3**	**-0.2**	**-0.3**	**-0.3**	**-0.8**	**-0.3**	0.1	0.7	0.7	0.7	0.6
20%	1.0	**-0.1**	0.6	0.2	**-0.6**	**-0.3**	0.5	1.0	1.0	0.9	0.7	1.0
30%	1.0	0.7	0.7	0.1	**-0.1**	**-0.2**	0.7	0.8	0.9	0.8	0.8	0.9
40%	1.1	0.8	0.9	0.3	**-0.4**	**-0.3**	0.8	0.8	0.9	0.8	0.8	0.9
50%	1.0	0.9	0.9	0.4	0.3	**-0.2**	0.8	0.8	0.9	0.7	0.8	0.9
60%	1.0	0.9	1.0	0.8	0.8	**-0.1**	0.8	1.0	0.8	0.6	0.8	0.9
70%	1.0	1.0	0.8	1.0	0.8	0.5	0.8	1.0	0.9	0.6	0.8	1.0
80%	1.0	0.9	0.8	1.3	0.8	0.8	1.0	1.0	0.9	0.6	0.7	0.9
90%	1.0	1.0	1.0	1.1	1.0	1.0	1.0	1.1	1.0	0.5	0.8	1.0
Long Term												
Full Simulation Period[a]	0.9	0.6	0.7	0.4	0.3	0.1	0.6	0.6	0.7	0.7	0.8	0.8
Water Year Types[b]												
Wet (31%)	0.7	**0.0**	0.1	**-0.1**	**-0.3**	**-0.6**	0.2	**-0.3**	**-0.1**	0.6	0.7	0.5
Above Normal (25%)	1.1	0.8	0.8	**-0.4**	0.1	**-0.3**	0.0	0.6	0.8	1.0	0.8	0.8
Below Normal (6%)	1.0	1.0	1.1	0.6	**-0.5**	**-0.1**	0.8	0.6	0.9	0.4	0.6	0.9
Dry (13%)	1.0	0.7	0.8	0.8	0.7	0.2	0.8	1.0	0.9	0.8	0.7	0.9
Critical (25%)	1.0	0.9	0.9	0.9	0.9	0.7	1.0	1.1	1.0	0.6	0.8	1.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-30-1-6. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.9	6.2	9.6	9.1	10.8	10.1	7.2	4.8	4.1	4.5	4.2	4.2
20%	3.4	5.3	4.5	7.9	10.0	8.4	4.2	3.7	3.7	4.3	4.0	3.7
30%	3.4	3.6	4.2	6.2	6.5	6.9	3.8	3.6	3.7	4.2	3.9	3.6
40%	3.3	3.5	4.0	4.7	5.5	5.4	3.5	3.6	3.6	4.2	3.8	3.6
50%	3.3	3.4	3.8	4.6	4.5	5.0	3.4	3.5	3.6	4.2	3.8	3.5
60%	3.3	3.4	3.7	4.1	3.7	4.7	3.4	3.3	3.6	4.1	3.8	3.5
70%	3.2	3.3	3.7	3.7	3.6	3.8	3.3	3.2	3.5	4.1	3.7	3.4
80%	3.1	3.1	3.5	3.5	3.5	3.4	3.1	3.2	3.4	4.0	3.7	3.4
90%	3.1	3.0	3.2	3.3	3.1	3.1	3.0	2.9	3.3	3.9	3.6	3.3
Long Term												
Full Simulation Period[a]	3.4	4.1	5.0	5.5	5.9	5.9	4.3	3.8	3.9	4.2	3.9	3.6
Water Year Types[b]												
Wet (31%)	3.8	6.1	8.7	7.6	9.6	9.5	6.7	5.3	5.0	4.6	4.1	4.3
Above Normal (25%)	3.1	3.3	4.0	9.1	8.8	7.6	4.5	3.8	3.6	4.0	3.8	3.5
Below Normal (6%)	3.4	3.3	3.2	4.7	5.7	4.9	3.4	3.5	3.5	4.0	3.7	3.4
Dry (13%)	3.3	3.7	3.8	3.9	3.9	4.8	3.5	3.4	3.7	4.2	4.0	3.5
Critical (25%)	3.3	3.4	3.6	3.8	3.4	3.4	3.1	3.0	3.4	4.0	3.6	3.3

Alternative 4 H2 (LLT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.6	6.0	9.5	8.8	10.5	9.3	7.0	4.9	4.7	5.1	4.8	4.7
20%	4.5	5.3	5.1	8.0	9.3	8.1	5.0	4.7	4.7	5.0	4.7	4.5
30%	4.5	4.4	5.0	6.3	6.5	6.9	4.9	4.6	4.6	4.9	4.7	4.5
40%	4.3	4.3	4.8	5.0	5.2	5.1	4.6	4.4	4.5	4.8	4.6	4.4
50%	4.2	4.3	4.7	5.0	4.8	4.9	4.3	4.4	4.4	4.7	4.6	4.4
60%	4.2	4.3	4.5	4.7	4.5	4.7	4.2	4.3	4.4	4.7	4.6	4.4
70%	4.2	4.2	4.4	4.7	4.4	4.4	4.2	4.2	4.3	4.7	4.5	4.4
80%	4.1	4.1	4.2	4.6	4.3	4.2	4.1	4.2	4.3	4.5	4.4	4.3
90%	4.1	4.0	4.2	4.5	4.1	4.1	4.0	4.1	4.3	4.4	4.4	4.2
Long Term												
Full Simulation Period[a]	4.3	4.7	5.6	5.9	6.2	6.0	5.1	4.5	4.5	4.8	4.6	4.5
Water Year Types[b]												
Wet (31%)	4.5	6.1	8.8	7.5	9.2	8.8	7.3	5.1	4.8	5.0	4.8	4.8
Above Normal (25%)	4.2	4.1	4.9	8.8	8.9	7.4	5.1	4.5	4.3	4.6	4.6	4.3
Below Normal (6%)	4.2	4.2	4.2	5.3	5.3	4.9	4.2	4.2	4.4	4.4	4.4	4.3
Dry (13%)	4.2	4.4	4.6	4.6	4.5	5.1	4.3	4.4	4.5	4.9	4.6	4.4
Critical (25%)	4.4	4.2	4.5	4.7	4.3	4.2	4.1	4.1	4.3	4.6	4.4	4.4

Alternative 4 H2 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.8	**-0.3**	**-0.1**	**-0.3**	**-0.3**	**-0.8**	**-0.2**	0.1	0.7	0.6	0.6	0.6
20%	1.1	0.0	0.6	0.1	**-0.6**	**-0.3**	0.7	1.0	0.9	0.7	0.6	0.9
30%	1.1	0.8	0.8	0.1	**0.0**	0.0	1.0	0.9	0.8	0.6	0.8	0.9
40%	1.0	0.8	0.8	0.3	**-0.4**	**-0.3**	1.2	0.8	0.9	0.6	0.8	0.9
50%	0.9	0.9	0.9	0.4	0.3	**-0.1**	0.9	0.9	0.8	0.5	0.8	0.9
60%	1.0	0.9	0.8	0.6	0.8	**-0.1**	0.8	1.0	0.8	0.6	0.8	0.9
70%	1.0	1.0	0.8	0.9	0.8	0.5	0.9	0.9	0.9	0.5	0.8	1.0
80%	1.0	1.0	0.7	1.2	0.8	0.8	1.0	1.0	0.9	0.6	0.7	0.9
90%	1.0	1.0	1.0	1.2	1.0	1.0	1.0	1.1	0.9	0.6	0.8	1.0
Long Term												
Full Simulation Period[a]	1.0	0.6	0.7	0.4	0.3	0.1	0.7	0.7	0.6	0.6	0.8	0.8
Water Year Types[b]												
Wet (31%)	0.7	0.0	0.1	**-0.1**	**-0.4**	**-0.6**	0.5	**-0.2**	**-0.1**	0.4	0.7	0.5
Above Normal (25%)	1.1	0.8	0.9	**-0.3**	0.1	**-0.2**	0.6	0.7	0.7	0.6	0.8	0.8
Below Normal (6%)	0.8	0.9	1.0	0.6	**-0.4**	0.0	0.8	0.7	0.9	0.4	0.6	0.9
Dry (13%)	0.9	0.7	0.8	0.7	0.6	0.3	0.8	1.0	0.8	0.6	0.6	0.8
Critical (25%)	1.1	0.9	0.8	0.9	0.9	0.8	0.9	1.1	0.9	0.6	0.8	1.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-30-1-7. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.9	6.2	9.6	9.1	10.8	10.1	7.2	4.8	4.1	4.5	4.2	4.2
20%	3.4	5.3	4.5	7.9	10.0	8.4	4.2	3.7	3.7	4.3	4.0	3.7
30%	3.4	3.6	4.2	6.2	6.5	6.9	3.8	3.6	3.7	4.2	3.9	3.6
40%	3.3	3.5	4.0	4.7	5.5	5.4	3.5	3.6	3.6	4.2	3.8	3.6
50%	3.3	3.4	3.8	4.6	4.5	5.0	3.4	3.5	3.6	4.2	3.8	3.5
60%	3.3	3.4	3.7	4.1	3.7	4.7	3.4	3.3	3.6	4.1	3.8	3.5
70%	3.2	3.3	3.7	3.7	3.6	3.8	3.3	3.2	3.5	4.1	3.7	3.4
80%	3.1	3.1	3.5	3.5	3.5	3.4	3.1	3.2	3.4	4.0	3.7	3.4
90%	3.1	3.0	3.2	3.3	3.1	3.1	3.0	2.9	3.3	3.9	3.6	3.3
Long Term												
Full Simulation Period[a]	3.4	4.1	5.0	5.5	5.9	5.9	4.3	3.8	3.9	4.2	3.9	3.6
Water Year Types[b]												
Wet (31%)	3.8	6.1	8.7	7.6	9.6	9.5	6.7	5.3	5.0	4.6	4.1	4.3
Above Normal (25%)	3.1	3.3	4.0	9.1	8.8	7.6	4.5	3.8	3.6	4.0	3.8	3.5
Below Normal (6%)	3.4	3.3	3.2	4.7	5.7	4.9	3.4	3.5	3.5	4.0	3.7	3.4
Dry (13%)	3.3	3.7	3.8	3.9	3.9	4.8	3.5	3.4	3.7	4.2	4.0	3.5
Critical (25%)	3.3	3.4	3.6	3.8	3.4	3.4	3.1	3.0	3.4	4.0	3.6	3.3

Alternative 4 H3 (LLT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.6	5.9	9.2	8.8	10.2	9.3	6.9	4.9	4.8	5.2	4.8	5.3
20%	4.5	5.2	5.0	8.0	9.3	8.0	4.7	4.6	4.7	5.2	4.7	5.1
30%	4.4	4.4	5.0	6.3	6.4	6.4	4.5	4.4	4.6	5.0	4.7	4.6
40%	4.4	4.3	4.9	5.0	5.2	5.1	4.3	4.4	4.5	5.0	4.7	4.5
50%	4.2	4.3	4.8	5.0	4.8	4.8	4.2	4.3	4.5	4.8	4.6	4.4
60%	4.2	4.3	4.7	5.0	4.5	4.7	4.2	4.2	4.4	4.8	4.6	4.4
70%	4.1	4.2	4.4	4.7	4.4	4.4	4.1	4.2	4.4	4.7	4.5	4.4
80%	4.1	4.0	4.3	4.6	4.3	4.2	4.1	4.2	4.3	4.6	4.4	4.3
90%	4.1	4.0	4.2	4.3	4.1	4.1	4.0	4.1	4.3	4.4	4.4	4.2
Long Term												
Full Simulation Period[a]	4.3	4.7	5.6	5.9	6.2	5.9	4.9	4.5	4.5	4.9	4.6	4.6
Water Year Types[b]												
Wet (31%)	4.5	6.0	8.7	7.5	9.2	8.7	7.0	5.0	4.9	5.1	4.8	5.3
Above Normal (25%)	4.2	4.1	4.9	8.6	8.6	7.3	4.6	4.4	4.4	5.0	4.6	4.5
Below Normal (6%)	4.2	4.3	4.2	5.3	5.2	4.8	4.2	4.2	4.4	4.4	4.4	4.2
Dry (13%)	4.2	4.4	4.6	4.6	4.5	4.9	4.3	4.5	4.6	5.0	4.6	4.4
Critical (25%)	4.3	4.3	4.5	4.7	4.3	4.2	4.1	4.1	4.3	4.6	4.4	4.3

Alternative 4 H3 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.7	**-0.3**	**-0.4**	**-0.3**	**-0.6**	**-0.8**	**-0.3**	0.1	0.7	0.7	0.6	1.1
20%	1.1	**0.0**	0.5	0.1	**-0.6**	**-0.3**	0.5	1.0	1.0	0.9	0.7	1.4
30%	1.0	0.8	0.7	0.1	**-0.1**	**-0.5**	0.7	0.8	0.9	0.8	0.8	1.0
40%	1.0	0.8	0.9	0.3	**-0.4**	**-0.3**	0.8	0.8	0.9	0.8	0.8	0.9
50%	0.9	0.9	1.0	0.4	0.3	**-0.2**	0.8	0.8	0.9	0.6	0.8	0.9
60%	0.9	0.9	1.0	0.9	0.8	**-0.1**	0.8	1.0	0.8	0.7	0.8	1.0
70%	1.0	1.0	0.8	0.9	0.8	0.5	0.8	1.0	0.9	0.6	0.7	1.0
80%	1.0	0.9	0.8	1.1	0.8	0.8	1.0	1.0	0.9	0.6	0.7	1.0
90%	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	0.9	0.5	0.8	0.9
Long Term												
Full Simulation Period[a]	0.9	0.6	0.6	0.4	0.3	0.0	0.6	0.7	0.6	0.7	0.7	1.0
Water Year Types[b]												
Wet (31%)	0.7	**0.0**	**0.0**	**-0.1**	**-0.4**	**-0.8**	0.3	**-0.3**	**-0.1**	0.6	0.7	1.0
Above Normal (25%)	1.2	0.8	0.9	**-0.6**	**-0.2**	**-0.3**	0.0	0.6	0.8	1.0	0.8	1.0
Below Normal (6%)	0.8	1.0	0.9	0.6	**-0.5**	**-0.1**	0.8	0.6	0.9	0.4	0.6	0.8
Dry (13%)	1.0	0.7	0.8	0.7	0.6	0.1	0.8	1.0	0.9	0.8	0.6	0.9
Critical (25%)	1.0	0.9	0.9	0.9	0.9	0.8	0.9	1.1	0.9	0.6	0.8	1.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-30-1-8. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.9	6.2	9.6	9.1	10.8	10.1	7.2	4.8	4.1	4.5	4.2	4.2
20%	3.4	5.3	4.5	7.9	10.0	8.4	4.2	3.7	3.7	4.3	4.0	3.7
30%	3.4	3.6	4.2	6.2	6.5	6.9	3.8	3.6	3.7	4.2	3.9	3.6
40%	3.3	3.5	4.0	4.7	5.5	5.4	3.5	3.6	3.6	4.2	3.8	3.6
50%	3.3	3.4	3.8	4.6	4.5	5.0	3.4	3.5	3.6	4.2	3.8	3.5
60%	3.3	3.4	3.7	4.1	3.7	4.7	3.4	3.3	3.6	4.1	3.8	3.5
70%	3.2	3.3	3.7	3.7	3.6	3.8	3.3	3.2	3.5	4.1	3.7	3.4
80%	3.1	3.1	3.5	3.5	3.5	3.4	3.1	3.2	3.4	4.0	3.7	3.4
90%	3.1	3.0	3.2	3.3	3.1	3.1	3.0	2.9	3.3	3.9	3.6	3.3
Long Term												
Full Simulation Period[a]	3.4	4.1	5.0	5.5	5.9	5.9	4.3	3.8	3.9	4.2	3.9	3.6
Water Year Types[b]												
Wet (31%)	3.8	6.1	8.7	7.6	9.6	9.5	6.7	5.3	5.0	4.6	4.1	4.3
Above Normal (25%)	3.1	3.3	4.0	9.1	8.8	7.6	4.5	3.8	3.6	4.0	3.8	3.5
Below Normal (6%)	3.4	3.3	3.2	4.7	5.7	4.9	3.4	3.5	3.5	4.0	3.7	3.4
Dry (13%)	3.3	3.7	3.8	3.9	3.9	4.8	3.5	3.4	3.7	4.2	4.0	3.5
Critical (25%)	3.3	3.4	3.6	3.8	3.4	3.4	3.1	3.0	3.4	4.0	3.6	3.3

Alternative 4 H4 (LLT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.6	5.8	9.3	8.8	10.2	9.3	7.0	4.9	4.7	5.1	4.8	5.3
20%	4.5	5.2	5.0	8.0	9.3	8.1	5.0	4.7	4.7	4.9	4.7	5.2
30%	4.4	4.4	5.0	6.3	6.5	6.8	4.9	4.6	4.6	4.9	4.7	4.6
40%	4.3	4.3	4.8	5.0	5.2	5.1	4.6	4.4	4.5	4.7	4.6	4.5
50%	4.3	4.3	4.7	4.9	4.8	4.8	4.3	4.3	4.4	4.7	4.6	4.4
60%	4.2	4.3	4.5	4.7	4.5	4.7	4.2	4.3	4.3	4.7	4.6	4.4
70%	4.1	4.2	4.4	4.6	4.4	4.4	4.2	4.2	4.3	4.6	4.6	4.4
80%	4.1	4.1	4.3	4.4	4.3	4.2	4.1	4.2	4.3	4.5	4.4	4.4
90%	4.1	4.0	4.2	4.2	4.1	4.1	4.0	4.1	4.3	4.5	4.3	4.2
Long Term												
Full Simulation Period[a]	4.3	4.7	5.6	5.9	6.2	6.0	5.1	4.5	4.5	4.8	4.6	4.6
Water Year Types[b]												
Wet (31%)	4.5	6.0	8.7	7.5	9.2	8.7	7.3	5.1	4.8	5.0	4.8	5.3
Above Normal (25%)	4.2	4.1	4.9	8.8	8.7	7.4	5.1	4.5	4.3	4.6	4.6	4.5
Below Normal (6%)	4.2	4.3	4.3	5.3	5.3	4.8	4.2	4.2	4.4	4.4	4.3	4.2
Dry (13%)	4.2	4.4	4.6	4.6	4.5	5.1	4.3	4.4	4.5	4.8	4.6	4.4
Critical (25%)	4.3	4.3	4.5	4.5	4.3	4.2	4.1	4.1	4.3	4.6	4.5	4.4

Alternative 4 H4 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.7	**-0.5**	**-0.3**	**-0.3**	**-0.6**	**-0.8**	**-0.2**	0.1	0.7	0.6	0.6	1.1
20%	1.1	**0.0**	0.5	0.2	**-0.6**	**-0.3**	0.7	1.0	0.9	0.6	0.7	1.5
30%	1.0	0.8	0.7	0.1	**-0.1**	**-0.1**	1.0	0.9	0.8	0.6	0.8	0.9
40%	1.0	0.8	0.8	0.3	**-0.4**	**-0.3**	1.2	0.8	0.9	0.5	0.8	0.9
50%	1.0	0.9	0.9	0.4	0.3	**-0.2**	0.9	0.8	0.8	0.5	0.8	0.9
60%	1.0	0.9	0.8	0.6	0.8	**-0.1**	0.8	1.0	0.8	0.6	0.8	1.0
70%	1.0	1.0	0.8	0.9	0.8	0.5	0.8	1.0	0.9	0.5	0.8	1.0
80%	1.0	1.0	0.8	0.9	0.8	0.8	1.0	1.0	0.9	0.6	0.7	1.0
90%	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	0.9	0.6	0.8	1.0
Long Term												
Full Simulation Period[a]	0.9	0.6	0.6	0.4	0.3	0.1	0.7	0.7	0.6	0.6	0.8	1.0
Water Year Types[b]												
Wet (31%)	0.8	**-0.1**	0.0	**-0.1**	**-0.4**	**-0.7**	0.5	**-0.2**	**-0.1**	0.4	0.7	1.0
Above Normal (25%)	1.2	0.8	0.9	**-0.4**	**-0.1**	**-0.3**	0.6	0.7	0.7	0.6	0.8	1.0
Below Normal (6%)	0.8	1.0	1.0	0.6	**-0.5**	**-0.1**	0.8	0.7	0.9	0.4	0.6	0.9
Dry (13%)	1.0	0.7	0.8	0.7	0.6	0.2	0.8	1.0	0.8	0.6	0.6	0.8
Critical (25%)	1.0	0.9	0.8	0.7	0.9	0.8	1.0	1.1	0.9	0.6	0.9	1.1

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-30-1-9. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.9	6.2	9.6	9.1	10.8	10.1	7.2	4.8	4.1	4.5	4.2	4.2
20%	3.4	5.3	4.5	7.9	10.0	8.4	4.2	3.7	3.7	4.3	4.0	3.7
30%	3.4	3.6	4.2	6.2	6.5	6.9	3.8	3.6	3.7	4.2	3.9	3.6
40%	3.3	3.5	4.0	4.7	5.5	5.4	3.5	3.6	3.6	4.2	3.8	3.6
50%	3.3	3.4	3.8	4.6	4.5	5.0	3.4	3.5	3.6	4.2	3.8	3.5
60%	3.3	3.4	3.7	4.1	3.7	4.7	3.4	3.3	3.6	4.1	3.8	3.5
70%	3.2	3.3	3.7	3.7	3.6	3.8	3.3	3.2	3.5	4.1	3.7	3.4
80%	3.1	3.1	3.5	3.5	3.5	3.4	3.1	3.2	3.4	4.0	3.7	3.4
90%	3.1	3.0	3.2	3.3	3.1	3.1	3.0	2.9	3.3	3.9	3.6	3.3
Long Term												
Full Simulation Period[a]	3.4	4.1	5.0	5.5	5.9	5.9	4.3	3.8	3.9	4.2	3.9	3.6
Water Year Types[b]												
Wet (31%)	3.8	6.1	8.7	7.6	9.6	9.5	6.7	5.3	5.0	4.6	4.1	4.3
Above Normal (25%)	3.1	3.3	4.0	9.1	8.8	7.6	4.5	3.8	3.6	4.0	3.8	3.5
Below Normal (6%)	3.4	3.3	3.2	4.7	5.7	4.9	3.4	3.5	3.5	4.0	3.7	3.4
Dry (13%)	3.3	3.7	3.8	3.9	3.9	4.8	3.5	3.4	3.7	4.2	4.0	3.5
Critical (25%)	3.3	3.4	3.6	3.8	3.4	3.4	3.1	3.0	3.4	4.0	3.6	3.3

Alternative 5 (LLT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.5	6.0	9.7	9.3	10.8	9.9	7.3	5.0	4.8	5.2	4.9	5.3
20%	4.5	5.1	5.0	8.5	10.0	8.6	4.9	4.6	4.7	5.1	4.8	5.1
30%	4.4	4.5	4.9	6.5	6.8	6.9	4.6	4.4	4.6	5.0	4.7	4.5
40%	4.4	4.4	4.9	5.1	5.5	5.3	4.3	4.4	4.5	5.0	4.6	4.4
50%	4.2	4.3	4.7	5.1	4.9	5.1	4.3	4.3	4.5	5.0	4.6	4.4
60%	4.2	4.3	4.6	4.8	4.5	4.8	4.2	4.2	4.4	4.9	4.5	4.4
70%	4.1	4.2	4.4	4.6	4.4	4.4	4.2	4.2	4.4	4.8	4.5	4.4
80%	4.1	4.0	4.3	4.6	4.4	4.2	4.1	4.2	4.4	4.6	4.4	4.3
90%	4.1	4.0	4.3	4.3	4.1	4.1	4.0	4.1	4.3	4.5	4.3	4.2
Long Term												
Full Simulation Period[a]	4.3	4.8	5.7	6.0	6.4	6.2	5.0	4.5	4.6	4.9	4.6	4.6
Water Year Types[b]												
Wet (31%)	4.4	6.2	9.0	7.9	9.7	9.2	7.2	5.2	5.0	5.1	4.8	5.3
Above Normal (25%)	4.0	4.1	4.8	9.2	9.2	7.7	4.8	4.4	4.5	4.9	4.5	4.5
Below Normal (6%)	4.2	4.3	4.3	5.3	5.5	5.0	4.2	4.2	4.5	4.6	4.3	4.2
Dry (13%)	4.2	4.4	4.6	4.6	4.6	5.1	4.3	4.4	4.6	5.0	4.7	4.3
Critical (25%)	4.3	4.3	4.5	4.6	4.3	4.2	4.1	4.1	4.3	4.7	4.4	4.3

Alternative 5 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.6	**-0.3**	0.1	0.2	0.0	**-0.2**	0.1	0.2	0.8	0.7	0.7	1.1
20%	1.1	**-0.1**	0.5	0.6	0.0	0.2	0.6	0.9	0.9	0.8	0.8	1.4
30%	1.0	0.8	0.7	0.3	0.3	**0.0**	0.7	0.8	0.9	0.8	0.8	0.9
40%	1.0	0.9	0.9	0.4	**-0.1**	**-0.1**	0.8	0.8	0.9	0.8	0.8	0.9
50%	0.9	0.9	0.8	0.5	0.4	0.1	0.8	0.8	0.9	0.8	0.8	0.9
60%	0.9	0.9	0.8	0.7	0.8	0.0	0.8	1.0	0.9	0.7	0.7	1.0
70%	0.9	1.0	0.8	0.9	0.9	0.6	0.8	1.0	0.9	0.7	0.8	1.0
80%	1.0	1.0	0.8	1.1	0.9	0.8	1.0	1.0	0.9	0.7	0.7	0.9
90%	1.0	1.0	1.1	1.0	1.0	1.0	1.0	1.1	0.9	0.6	0.7	0.9
Long Term												
Full Simulation Period[a]	0.9	0.7	0.7	0.6	0.5	0.3	0.7	0.7	0.7	0.7	0.7	0.9
Water Year Types[b]												
Wet (31%)	0.7	0.1	0.3	0.3	0.1	**-0.2**	0.5	**-0.1**	0.1	0.6	0.8	1.0
Above Normal (25%)	1.0	0.9	0.8	0.1	0.4	0.1	0.2	0.6	0.9	0.9	0.8	1.0
Below Normal (6%)	0.8	1.0	1.1	0.6	**-0.3**	0.1	0.8	0.6	1.0	0.6	0.6	0.8
Dry (13%)	1.0	0.7	0.8	0.7	0.7	0.3	0.8	1.0	0.9	0.7	0.7	0.8
Critical (25%)	1.0	0.9	0.8	0.9	0.9	0.8	1.0	1.1	0.9	0.6	0.8	1.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-30-1-10. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.9	6.2	9.6	9.1	10.8	10.1	7.2	4.8	4.1	4.5	4.2	4.2
20%	3.4	5.3	4.5	7.9	10.0	8.4	4.2	3.7	3.7	4.3	4.0	3.7
30%	3.4	3.6	4.2	6.2	6.5	6.9	3.8	3.6	3.7	4.2	3.9	3.6
40%	3.3	3.5	4.0	4.7	5.5	5.4	3.5	3.6	3.6	4.2	3.8	3.6
50%	3.3	3.4	3.8	4.6	4.5	5.0	3.4	3.5	3.6	4.2	3.8	3.5
60%	3.3	3.4	3.7	4.1	3.7	4.7	3.4	3.3	3.6	4.1	3.8	3.5
70%	3.2	3.3	3.7	3.7	3.6	3.8	3.3	3.2	3.5	4.1	3.7	3.4
80%	3.1	3.1	3.5	3.5	3.5	3.4	3.1	3.2	3.4	4.0	3.7	3.4
90%	3.1	3.0	3.2	3.3	3.1	3.1	3.0	2.9	3.3	3.9	3.6	3.3
Long Term												
Full Simulation Period[a]	3.4	4.1	5.0	5.5	5.9	5.9	4.3	3.8	3.9	4.2	3.9	3.6
Water Year Types[b]												
Wet (31%)	3.8	6.1	8.7	7.6	9.6	9.5	6.7	5.3	5.0	4.6	4.1	4.3
Above Normal (25%)	3.1	3.3	4.0	9.1	8.8	7.6	4.5	3.8	3.6	4.0	3.8	3.5
Below Normal (6%)	3.4	3.3	3.2	4.7	5.7	4.9	3.4	3.5	3.5	4.0	3.7	3.4
Dry (13%)	3.3	3.7	3.8	3.9	3.9	4.8	3.5	3.4	3.7	4.2	4.0	3.5
Critical (25%)	3.3	3.4	3.6	3.8	3.4	3.4	3.1	3.0	3.4	4.0	3.6	3.3

Alternative 6A,6B,6C (LLT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.5	6.2	9.1	8.2	10.0	9.3	6.9	4.8	4.7	5.0	4.9	5.1
20%	4.4	5.3	5.0	7.8	9.1	8.3	4.8	4.5	4.6	4.8	4.8	5.0
30%	4.3	4.5	5.0	6.4	6.2	6.5	4.5	4.4	4.5	4.8	4.7	4.6
40%	4.3	4.4	4.8	5.2	5.2	5.1	4.3	4.4	4.4	4.8	4.7	4.5
50%	4.3	4.3	4.7	5.1	4.9	4.8	4.2	4.3	4.4	4.7	4.6	4.5
60%	4.2	4.3	4.5	4.8	4.9	4.7	4.2	4.2	4.3	4.7	4.6	4.5
70%	4.2	4.3	4.4	4.6	4.4	4.4	4.2	4.2	4.3	4.7	4.5	4.4
80%	4.2	4.0	4.3	4.3	4.3	4.2	4.1	4.1	4.2	4.6	4.5	4.4
90%	4.1	4.0	4.2	4.2	4.1	4.0	4.0	4.0	4.2	4.5	4.4	4.2
Long Term												
Full Simulation Period[a]	4.3	4.7	5.6	5.8	6.1	6.0	4.9	4.4	4.5	4.7	4.6	4.6
Water Year Types[b]												
Wet (31%)	4.5	6.0	8.7	7.4	9.2	8.8	7.0	5.0	4.8	5.0	4.9	5.1
Above Normal (25%)	4.0	4.2	4.8	8.2	8.1	7.5	4.6	4.4	4.3	4.7	4.6	4.5
Below Normal (6%)	4.2	4.3	4.2	5.3	5.2	4.7	4.2	4.2	4.4	4.5	4.5	4.4
Dry (13%)	4.3	4.4	4.6	4.6	4.6	5.0	4.3	4.3	4.5	4.7	4.6	4.4
Critical (25%)	4.3	4.3	4.5	4.5	4.3	4.1	4.0	4.1	4.3	4.6	4.5	4.4

Alternative 6A,6B,6C (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.6	**-0.1**	**-0.5**	**-0.9**	**-0.8**	**-0.8**	**-0.3**	0.0	0.6	0.5	0.7	1.0
20%	1.0	0.0	0.5	**-0.1**	**-0.8**	**-0.1**	0.6	0.8	0.8	0.5	0.7	1.3
30%	0.9	0.9	0.8	0.2	**-0.4**	**-0.4**	0.7	0.8	0.8	0.6	0.8	0.9
40%	1.0	0.9	0.8	0.4	**-0.3**	**-0.4**	0.8	0.8	0.8	0.6	0.8	1.0
50%	1.0	0.9	0.8	0.5	0.4	**-0.1**	0.8	0.8	0.8	0.6	0.8	1.0
60%	1.0	0.9	0.8	0.7	1.2	**0.0**	0.8	1.0	0.8	0.6	0.8	1.0
70%	1.0	1.0	0.8	0.9	0.8	0.5	0.8	0.9	0.8	0.6	0.8	1.0
80%	1.1	0.9	0.7	0.9	0.8	0.8	0.9	0.9	0.8	0.6	0.8	1.0
90%	1.0	1.0	1.0	0.9	1.0	0.9	1.0	1.1	0.9	0.7	0.9	1.0
Long Term												
Full Simulation Period[a]	0.9	0.6	0.6	0.3	0.3	0.1	0.6	0.6	0.6	0.5	0.8	0.9
Water Year Types[b]												
Wet (31%)	0.8	**-0.1**	**0.0**	**-0.2**	**-0.4**	**-0.6**	0.3	**-0.3**	**-0.2**	0.4	0.8	0.8
Above Normal (25%)	1.0	0.9	0.8	**-0.9**	**-0.7**	**-0.2**	0.0	0.6	0.7	0.7	0.8	0.9
Below Normal (6%)	0.8	1.0	1.0	0.6	**-0.5**	**-0.2**	0.8	0.6	0.9	0.5	0.8	1.0
Dry (13%)	1.0	0.8	0.8	0.7	0.7	0.1	0.8	0.9	0.8	0.5	0.6	0.9
Critical (25%)	1.0	1.0	0.8	0.8	1.0	0.7	0.9	1.1	0.9	0.6	0.9	1.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-30-1-11. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.9	6.2	9.6	9.1	10.8	10.1	7.2	4.8	4.1	4.5	4.2	4.2
20%	3.4	5.3	4.5	7.9	10.0	8.4	4.2	3.7	3.7	4.3	4.0	3.7
30%	3.4	3.6	4.2	6.2	6.5	6.9	3.8	3.6	3.7	4.2	3.9	3.6
40%	3.3	3.5	4.0	4.7	5.5	5.4	3.5	3.6	3.6	4.2	3.8	3.6
50%	3.3	3.4	3.8	4.6	4.5	5.0	3.4	3.5	3.6	4.2	3.8	3.5
60%	3.3	3.4	3.7	4.1	3.7	4.7	3.4	3.3	3.6	4.1	3.8	3.5
70%	3.2	3.3	3.7	3.7	3.6	3.8	3.3	3.2	3.5	4.1	3.7	3.4
80%	3.1	3.1	3.5	3.5	3.5	3.4	3.1	3.2	3.4	4.0	3.7	3.4
90%	3.1	3.0	3.2	3.3	3.1	3.1	3.0	2.9	3.3	3.9	3.6	3.3
Long Term												
Full Simulation Period[a]	3.4	4.1	5.0	5.5	5.9	5.9	4.3	3.8	3.9	4.2	3.9	3.6
Water Year Types[b]												
Wet (31%)	3.8	6.1	8.7	7.6	9.6	9.5	6.7	5.3	5.0	4.6	4.1	4.3
Above Normal (25%)	3.1	3.3	4.0	9.1	8.8	7.6	4.5	3.8	3.6	4.0	3.8	3.5
Below Normal (6%)	3.4	3.3	3.2	4.7	5.7	4.9	3.4	3.5	3.5	4.0	3.7	3.4
Dry (13%)	3.3	3.7	3.8	3.9	3.9	4.8	3.5	3.4	3.7	4.2	4.0	3.5
Critical (25%)	3.3	3.4	3.6	3.8	3.4	3.4	3.1	3.0	3.4	4.0	3.6	3.3

Alternative 7 (LLT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.5	6.0	9.5	8.7	10.2	9.3	6.8	4.8	4.8	5.2	4.9	5.3
20%	4.4	5.2	5.0	8.1	9.3	8.0	4.7	4.5	4.6	5.1	4.7	5.1
30%	4.3	4.5	5.0	6.2	6.4	6.3	4.5	4.4	4.6	4.9	4.7	4.5
40%	4.3	4.4	4.7	5.0	5.1	5.0	4.3	4.4	4.5	4.9	4.7	4.5
50%	4.3	4.4	4.7	5.0	4.9	4.8	4.2	4.3	4.5	4.8	4.6	4.4
60%	4.3	4.3	4.5	4.7	4.8	4.7	4.2	4.2	4.4	4.8	4.6	4.4
70%	4.2	4.3	4.4	4.6	4.4	4.4	4.2	4.2	4.3	4.7	4.6	4.4
80%	4.2	4.1	4.3	4.4	4.3	4.2	4.1	4.1	4.3	4.6	4.5	4.3
90%	4.1	4.0	4.2	4.2	4.1	4.0	4.0	4.1	4.3	4.6	4.4	4.2
Long Term												
Full Simulation Period[a]	4.3	4.8	5.6	5.8	6.2	5.9	4.9	4.4	4.5	4.8	4.6	4.6
Water Year Types[b]												
Wet (31%)	4.5	6.1	8.8	7.4	9.1	8.7	6.9	5.0	4.9	5.1	4.8	5.3
Above Normal (25%)	4.0	4.2	4.8	8.7	8.6	7.1	4.6	4.4	4.4	4.7	4.6	4.5
Below Normal (6%)	4.3	4.3	4.2	5.3	5.2	4.9	4.3	4.2	4.3	4.6	4.4	4.3
Dry (13%)	4.3	4.4	4.6	4.6	4.6	5.0	4.3	4.3	4.5	5.0	4.7	4.3
Critical (25%)	4.2	4.3	4.5	4.5	4.3	4.2	4.1	4.2	4.4	4.6	4.5	4.3

Alternative 7 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.6	**-0.3**	**-0.1**	**-0.4**	**-0.6**	**-0.8**	**-0.4**	0.1	0.7	0.7	0.7	1.2
20%	1.0	**0.0**	0.5	0.2	**-0.7**	**-0.4**	0.5	0.8	0.9	0.8	0.7	1.4
30%	0.9	0.9	0.7	0.0	**-0.2**	**-0.6**	0.7	0.8	0.8	0.7	0.8	0.9
40%	1.0	0.9	0.8	0.3	**-0.4**	**-0.4**	0.8	0.8	0.9	0.7	0.8	0.9
50%	1.0	0.9	0.8	0.4	0.4	**-0.2**	0.8	0.8	0.9	0.7	0.8	0.9
60%	1.0	1.0	0.8	0.6	1.2	**-0.1**	0.8	1.0	0.9	0.6	0.8	0.9
70%	1.0	1.0	0.8	0.9	0.8	0.6	0.8	1.0	0.9	0.6	0.8	1.0
80%	1.1	1.0	0.7	0.9	0.8	0.8	0.9	1.0	0.9	0.6	0.8	1.0
90%	1.0	1.0	1.0	1.0	1.0	0.9	1.0	1.1	1.0	0.7	0.9	0.9
Long Term												
Full Simulation Period[a]	0.9	0.7	0.6	0.4	0.3	**0.0**	0.6	0.6	0.7	0.6	0.8	0.9
Water Year Types[b]												
Wet (31%)	0.8	0.0	0.1	**-0.2**	**-0.5**	**-0.8**	0.1	**-0.3**	**-0.1**	0.5	0.7	1.0
Above Normal (25%)	1.0	0.9	0.8	**-0.4**	**-0.2**	**-0.6**	0.0	0.6	0.8	0.8	0.8	1.0
Below Normal (6%)	0.9	1.0	1.0	0.6	**-0.5**	**0.0**	0.8	0.6	0.8	0.6	0.7	0.9
Dry (13%)	1.0	0.7	0.8	0.7	0.7	0.1	0.8	0.9	0.8	0.8	0.7	0.8
Critical (25%)	1.0	1.0	0.8	0.7	1.0	0.7	0.9	1.2	1.0	0.6	0.9	1.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-30-1-12. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.9	6.2	9.6	9.1	10.8	10.1	7.2	4.8	4.1	4.5	4.2	4.2
20%	3.4	5.3	4.5	7.9	10.0	8.4	4.2	3.7	3.7	4.3	4.0	3.7
30%	3.4	3.6	4.2	6.2	6.5	6.9	3.8	3.6	3.7	4.2	3.9	3.6
40%	3.3	3.5	4.0	4.7	5.5	5.4	3.5	3.6	3.6	4.2	3.8	3.6
50%	3.3	3.4	3.8	4.6	4.5	5.0	3.4	3.5	3.6	4.2	3.8	3.5
60%	3.3	3.4	3.7	4.1	3.7	4.7	3.4	3.3	3.6	4.1	3.8	3.5
70%	3.2	3.3	3.7	3.7	3.6	3.8	3.3	3.2	3.5	4.1	3.7	3.4
80%	3.1	3.1	3.5	3.5	3.5	3.4	3.1	3.2	3.4	4.0	3.7	3.4
90%	3.1	3.0	3.2	3.3	3.1	3.1	3.0	2.9	3.3	3.9	3.6	3.3
Long Term												
Full Simulation Period[a]	3.4	4.1	5.0	5.5	5.9	5.9	4.3	3.8	3.9	4.2	3.9	3.6
Water Year Types[b]												
Wet (31%)	3.8	6.1	8.7	7.6	9.6	9.5	6.7	5.3	5.0	4.6	4.1	4.3
Above Normal (25%)	3.1	3.3	4.0	9.1	8.8	7.6	4.5	3.8	3.6	4.0	3.8	3.5
Below Normal (6%)	3.4	3.3	3.2	4.7	5.7	4.9	3.4	3.5	3.5	4.0	3.7	3.4
Dry (13%)	3.3	3.7	3.8	3.9	3.9	4.8	3.5	3.4	3.7	4.2	4.0	3.5
Critical (25%)	3.3	3.4	3.6	3.8	3.4	3.4	3.1	3.0	3.4	4.0	3.6	3.3

Alternative 8 (LLT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.5	6.2	9.5	8.7	10.1	9.3	7.0	5.0	4.7	4.9	4.8	5.2
20%	4.3	5.3	5.0	8.1	9.3	7.9	5.0	4.6	4.6	4.7	4.7	5.0
30%	4.3	4.4	5.0	6.3	6.8	6.7	4.6	4.5	4.5	4.7	4.6	4.5
40%	4.2	4.4	4.7	5.4	5.1	5.2	4.4	4.4	4.5	4.7	4.6	4.4
50%	4.1	4.3	4.7	5.1	5.0	5.1	4.3	4.4	4.5	4.7	4.6	4.4
60%	4.1	4.3	4.5	4.8	4.9	4.8	4.3	4.4	4.4	4.6	4.5	4.4
70%	4.1	4.3	4.4	4.7	4.5	4.6	4.3	4.3	4.3	4.6	4.4	4.4
80%	4.0	4.0	4.2	4.4	4.4	4.3	4.2	4.2	4.3	4.6	4.4	4.2
90%	4.0	4.0	4.2	4.3	4.2	4.2	4.2	4.2	4.3	4.4	4.4	4.2
Long Term												
Full Simulation Period[a]	4.2	4.8	5.6	5.9	6.2	6.0	5.0	4.6	4.5	4.7	4.6	4.5
Water Year Types[b]												
Wet (31%)	4.5	6.3	8.8	7.5	9.1	8.7	6.9	5.3	4.9	4.9	4.8	5.2
Above Normal (25%)	4.0	4.1	4.8	8.9	8.6	7.2	4.8	4.5	4.4	4.5	4.5	4.4
Below Normal (6%)	4.1	4.2	4.2	5.4	5.7	5.1	4.3	4.4	4.3	4.3	4.3	4.2
Dry (13%)	4.1	4.4	4.6	4.7	4.7	5.3	4.5	4.4	4.5	4.7	4.6	4.3
Critical (25%)	4.1	4.3	4.5	4.6	4.4	4.3	4.1	4.2	4.4	4.6	4.5	4.3

Alternative 8 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.6	**0.0**	**-0.1**	**-0.4**	**-0.7**	**-0.8**	**-0.1**	0.2	0.6	0.4	0.6	1.0
20%	0.9	0.0	0.5	0.2	**-0.7**	**-0.5**	0.7	0.9	0.8	0.5	0.6	1.3
30%	0.9	0.8	0.7	0.1	0.3	**-0.2**	0.8	0.9	0.8	0.5	0.8	0.8
40%	0.9	0.9	0.8	0.7	**-0.4**	**-0.2**	1.0	0.8	0.9	0.5	0.8	0.8
50%	0.8	0.9	0.8	0.6	0.5	0.1	0.9	0.9	0.9	0.5	0.7	0.9
60%	0.8	0.9	0.8	0.7	1.2	0.1	0.9	1.1	0.9	0.5	0.7	0.9
70%	0.9	1.0	0.8	0.9	0.9	0.7	0.9	1.1	0.9	0.5	0.7	1.0
80%	0.9	0.9	0.7	0.9	0.9	1.0	1.1	1.0	0.9	0.6	0.7	0.9
90%	0.9	1.0	1.0	1.0	1.1	1.1	1.1	1.2	0.9	0.5	0.8	0.9
Long Term												
Full Simulation Period[a]	0.8	0.7	0.6	0.4	0.4	0.1	0.7	0.8	0.7	0.5	0.7	0.9
Water Year Types[b]												
Wet (31%)	0.7	0.2	0.2	**-0.1**	**-0.5**	**-0.8**	0.2	0.0	**0.0**	0.4	0.7	0.9
Above Normal (25%)	1.0	0.9	0.8	**-0.2**	**-0.2**	**-0.5**	0.2	0.7	0.8	0.5	0.7	0.9
Below Normal (6%)	0.7	1.0	1.0	0.8	0.0	0.1	0.9	0.9	0.8	0.4	0.6	0.8
Dry (13%)	0.9	0.7	0.8	0.8	0.8	0.5	1.0	0.9	0.8	0.5	0.6	0.8
Critical (25%)	0.9	0.9	0.8	0.8	1.0	0.9	1.0	1.2	1.0	0.6	0.9	1.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-30-1-13. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.9	6.2	9.6	9.1	10.8	10.1	7.2	4.8	4.1	4.5	4.2	4.2
20%	3.4	5.3	4.5	7.9	10.0	8.4	4.2	3.7	3.7	4.3	4.0	3.7
30%	3.4	3.6	4.2	6.2	6.5	6.9	3.8	3.6	3.7	4.2	3.9	3.6
40%	3.3	3.5	4.0	4.7	5.5	5.4	3.5	3.6	3.6	4.2	3.8	3.6
50%	3.3	3.4	3.8	4.6	4.5	5.0	3.4	3.5	3.6	4.2	3.8	3.5
60%	3.3	3.4	3.7	4.1	3.7	4.7	3.4	3.3	3.6	4.1	3.8	3.5
70%	3.2	3.3	3.7	3.7	3.6	3.8	3.3	3.2	3.5	4.1	3.7	3.4
80%	3.1	3.1	3.5	3.5	3.5	3.4	3.1	3.2	3.4	4.0	3.7	3.4
90%	3.1	3.0	3.2	3.3	3.1	3.1	3.0	2.9	3.3	3.9	3.6	3.3
Long Term												
Full Simulation Period[a]	3.4	4.1	5.0	5.5	5.9	5.9	4.3	3.8	3.9	4.2	3.9	3.6
Water Year Types[b]												
Wet (31%)	3.8	6.1	8.7	7.6	9.6	9.5	6.7	5.3	5.0	4.6	4.1	4.3
Above Normal (25%)	3.1	3.3	4.0	9.1	8.8	7.6	4.5	3.8	3.6	4.0	3.8	3.5
Below Normal (6%)	3.4	3.3	3.2	4.7	5.7	4.9	3.4	3.5	3.5	4.0	3.7	3.4
Dry (13%)	3.3	3.7	3.8	3.9	3.9	4.8	3.5	3.4	3.7	4.2	4.0	3.5
Critical (25%)	3.3	3.4	3.6	3.8	3.4	3.4	3.1	3.0	3.4	4.0	3.6	3.3

Alternative 9 (LLT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.6	6.1	10.2	9.9	11.5	10.6	7.6	5.1	4.8	5.1	5.0	5.8
20%	4.4	5.2	4.9	9.1	10.6	9.2	4.9	4.5	4.7	5.0	4.9	5.4
30%	4.4	4.6	4.8	6.7	7.2	7.2	4.5	4.4	4.6	5.0	4.8	4.7
40%	4.3	4.5	4.8	5.2	5.7	5.4	4.2	4.3	4.5	5.0	4.8	4.5
50%	4.2	4.4	4.6	5.1	4.9	5.3	4.2	4.3	4.5	4.9	4.7	4.4
60%	4.2	4.3	4.5	4.7	4.4	4.8	4.2	4.2	4.4	4.9	4.7	4.4
70%	4.2	4.2	4.4	4.5	4.3	4.4	4.1	4.2	4.4	4.8	4.6	4.4
80%	4.1	4.0	4.3	4.2	4.2	4.1	4.1	4.1	4.3	4.7	4.5	4.4
90%	4.1	4.0	4.2	4.1	4.1	4.0	3.9	4.0	4.3	4.6	4.4	4.2
Long Term												
Full Simulation Period[a]	4.3	4.8	5.7	6.2	6.6	6.4	5.1	4.5	4.6	4.9	4.7	4.7
Water Year Types[b]												
Wet (31%)	4.6	6.3	9.4	8.3	10.3	9.8	7.4	5.3	5.0	5.1	4.9	5.7
Above Normal (25%)	4.0	4.2	4.7	9.8	9.7	8.2	4.9	4.3	4.4	4.9	4.7	4.7
Below Normal (6%)	4.3	4.5	4.3	5.2	5.7	5.2	4.2	4.1	4.4	4.6	4.5	4.4
Dry (13%)	4.3	4.4	4.5	4.5	4.6	5.2	4.3	4.5	4.6	4.9	4.8	4.4
Critical (25%)	4.2	4.3	4.4	4.5	4.2	4.2	4.0	4.1	4.3	4.7	4.5	4.3

Alternative 9 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.7	**-0.1**	0.5	0.8	0.7	0.5	0.4	0.3	0.7	0.6	0.8	1.6
20%	1.0	**0.0**	0.4	1.2	0.6	0.8	0.6	0.9	0.9	0.8	0.8	1.7
30%	1.0	1.0	0.6	0.5	0.7	0.3	0.7	0.8	0.9	0.8	0.9	1.1
40%	1.0	0.9	0.8	0.5	0.2	**0.0**	0.8	0.7	0.9	0.8	0.9	0.9
50%	0.9	0.9	0.8	0.6	0.5	0.3	0.8	0.8	0.9	0.8	0.9	0.9
60%	0.9	0.9	0.8	0.6	0.7	0.1	0.8	1.0	0.8	0.7	0.9	0.9
70%	1.0	1.0	0.8	0.8	0.7	0.6	0.8	1.0	0.9	0.7	0.9	1.0
80%	1.0	1.0	0.8	0.8	0.7	0.7	0.9	0.9	0.9	0.7	0.8	1.0
90%	1.0	1.0	1.0	0.9	0.9	0.9	0.9	1.1	0.9	0.7	0.9	1.0
Long Term												
Full Simulation Period[a]	0.9	0.7	0.7	0.7	0.7	0.5	0.7	0.7	0.7	0.7	0.9	1.1
Water Year Types[b]												
Wet (31%)	0.8	0.3	0.7	0.7	0.6	0.3	0.7	0.0	0.1	0.6	0.9	1.4
Above Normal (25%)	0.9	0.9	0.7	0.7	0.9	0.5	0.4	0.5	0.8	1.0	1.0	1.2
Below Normal (6%)	0.9	1.2	1.0	0.6	**0.0**	0.3	0.8	0.6	0.9	0.6	0.8	1.0
Dry (13%)	1.0	0.7	0.7	0.7	0.7	0.4	0.8	1.0	0.9	0.7	0.8	0.8
Critical (25%)	1.0	1.0	0.8	0.7	0.8	0.8	0.9	1.1	1.0	0.7	0.9	1.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-30-1-14. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5.0	6.5	10.5	10.4	11.6	10.8	8.1	5.7	5.4	6.0	5.6	6.2
20%	4.9	5.7	5.6	9.5	10.9	9.6	5.6	5.1	5.3	5.9	5.4	5.7
30%	4.8	5.2	5.6	7.5	7.9	7.9	5.1	5.0	5.2	5.8	5.4	5.3
40%	4.8	5.0	5.4	6.0	6.4	6.3	4.9	4.9	5.1	5.7	5.3	5.0
50%	4.8	4.9	5.2	5.9	5.7	6.0	4.8	4.7	5.0	5.7	5.3	5.0
60%	4.8	4.8	5.1	5.4	5.1	5.6	4.7	4.7	5.0	5.7	5.2	4.9
70%	4.7	4.7	4.9	5.3	4.9	5.0	4.7	4.7	5.0	5.7	5.1	4.9
80%	4.6	4.7	4.9	5.1	4.9	4.7	4.6	4.7	4.9	5.4	5.1	4.9
90%	4.6	4.5	4.8	4.7	4.6	4.5	4.5	4.5	4.9	5.3	5.0	4.7
Long Term												
Full Simulation Period[a]	4.8	5.3	6.3	6.8	7.1	6.9	5.6	5.0	5.2	5.7	5.3	5.2
Water Year Types[b]												
Wet (31%)	5.1	6.7	9.7	8.9	10.6	10.1	7.9	5.8	5.6	5.9	5.6	6.1
Above Normal (25%)	4.6	4.7	5.4	10.1	10.1	8.7	5.6	5.0	5.0	5.7	5.3	5.3
Below Normal (6%)	4.8	5.0	4.9	6.0	6.4	5.9	4.8	4.7	5.0	5.3	5.1	4.9
Dry (13%)	4.8	5.0	5.2	5.2	5.2	5.9	4.8	4.9	5.1	5.8	5.4	4.9
Critical (25%)	4.8	4.8	5.0	5.2	4.7	4.8	4.6	4.6	4.9	5.4	5.0	4.8

Alternative 1A,1B,1C (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.9	5.8	9.2	8.8	10.4	9.8	7.0	4.9	4.8	5.2	4.9	4.7
20%	4.7	5.2	5.0	7.8	9.7	8.4	4.7	4.6	4.7	5.0	4.7	4.6
30%	4.6	4.6	5.0	6.6	6.2	6.8	4.6	4.4	4.6	5.0	4.7	4.5
40%	4.5	4.3	4.9	5.3	5.2	5.1	4.3	4.3	4.5	4.9	4.7	4.4
50%	4.4	4.3	4.7	5.1	4.9	4.8	4.3	4.3	4.4	4.8	4.6	4.4
60%	4.2	4.3	4.6	4.8	4.5	4.7	4.2	4.3	4.4	4.8	4.5	4.4
70%	4.2	4.2	4.5	4.6	4.4	4.4	4.2	4.2	4.4	4.6	4.5	4.4
80%	4.2	4.1	4.4	4.4	4.4	4.2	4.2	4.2	4.3	4.5	4.4	4.3
90%	4.1	4.0	4.3	4.3	4.2	4.1	4.0	4.1	4.3	4.4	4.3	4.2
Long Term												
Full Simulation Period[a]	4.4	4.8	5.6	5.9	6.3	6.1	5.0	4.5	4.5	4.8	4.6	4.5
Water Year Types[b]												
Wet (31%)	4.5	6.2	8.7	7.7	9.3	9.1	7.1	5.0	4.9	5.0	4.8	4.8
Above Normal (25%)	4.3	4.1	4.9	8.6	8.8	7.6	4.6	4.4	4.4	4.8	4.5	4.3
Below Normal (6%)	4.8	4.3	4.3	5.3	5.2	4.7	4.2	4.2	4.3	4.3	4.4	4.3
Dry (13%)	4.2	4.4	4.7	4.7	4.6	5.1	4.3	4.5	4.6	5.0	4.7	4.4
Critical (25%)	4.5	4.2	4.5	4.5	4.3	4.2	4.1	4.1	4.3	4.6	4.4	4.3

Alternative 1A,1B,1C (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-0.2**	**-0.7**	**-1.3**	**-1.6**	**-1.2**	**-1.0**	**-1.1**	**-0.8**	**-0.6**	**-0.8**	**-0.7**	**-1.4**
20%	**-0.2**	**-0.5**	**-0.6**	**-1.7**	**-1.2**	**-1.2**	**-0.9**	**-0.5**	**-0.6**	**-0.9**	**-0.7**	**-1.2**
30%	**-0.2**	**-0.6**	**-0.6**	**-0.9**	**-1.7**	**-1.2**	**-0.6**	**-0.6**	**-0.6**	**-0.8**	**-0.7**	**-0.8**
40%	**-0.3**	**-0.7**	**-0.5**	**-0.7**	**-1.2**	**-1.2**	**-0.6**	**-0.5**	**-0.6**	**-0.8**	**-0.7**	**-0.5**
50%	**-0.5**	**-0.6**	**-0.5**	**-0.8**	**-0.7**	**-1.2**	**-0.5**	**-0.4**	**-0.6**	**-0.9**	**-0.7**	**-0.5**
60%	**-0.5**	**-0.5**	**-0.5**	**-0.6**	**-0.6**	**-0.9**	**-0.5**	**-0.4**	**-0.6**	**-0.9**	**-0.7**	**-0.5**
70%	**-0.5**	**-0.5**	**-0.4**	**-0.7**	**-0.5**	**-0.6**	**-0.5**	**-0.4**	**-0.6**	**-1.0**	**-0.6**	**-0.5**
80%	**-0.5**	**-0.6**	**-0.6**	**-0.8**	**-0.5**	**-0.5**	**-0.5**	**-0.5**	**-0.6**	**-0.9**	**-0.7**	**-0.6**
90%	**-0.5**	**-0.5**	**-0.5**	**-0.4**	**-0.4**	**-0.5**	**-0.4**	**-0.4**	**-0.6**	**-0.8**	**-0.6**	**-0.5**
Long Term												
Full Simulation Period[a]	**-0.4**	**-0.6**	**-0.6**	**-0.9**	**-0.8**	**-0.8**	**-0.6**	**-0.5**	**-0.6**	**-0.8**	**-0.7**	**-0.7**
Water Year Types[b]												
Wet (31%)	**-0.6**	**-0.5**	**-1.0**	**-1.2**	**-1.2**	**-1.0**	**-0.7**	**-0.7**	**-0.7**	**-0.8**	**-0.8**	**-1.3**
Above Normal (25%)	**-0.3**	**-0.5**	**-0.6**	**-1.5**	**-1.3**	**-1.1**	**-0.9**	**-0.6**	**-0.6**	**-0.9**	**-0.8**	**-0.9**
Below Normal (6%)	**0.0**	**-0.7**	**-0.6**	**-0.7**	**-1.2**	**-1.1**	**-0.6**	**-0.5**	**-0.7**	**-1.0**	**-0.7**	**-0.6**
Dry (13%)	**-0.6**	**-0.6**	**-0.5**	**-0.5**	**-0.6**	**-0.8**	**-0.5**	**-0.5**	**-0.6**	**-0.8**	**-0.7**	**-0.5**
Critical (25%)	**-0.3**	**-0.6**	**-0.5**	**-0.7**	**-0.4**	**-0.6**	**-0.5**	**-0.4**	**-0.6**	**-0.8**	**-0.6**	**-0.5**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-30-1-15. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5.0	6.5	10.5	10.4	11.6	10.8	8.1	5.7	5.4	6.0	5.6	6.2
20%	4.9	5.7	5.6	9.5	10.9	9.6	5.6	5.1	5.3	5.9	5.4	5.7
30%	4.8	5.2	5.6	7.5	7.9	7.9	5.1	5.0	5.2	5.8	5.4	5.3
40%	4.8	5.0	5.4	6.0	6.4	6.3	4.9	4.9	5.1	5.7	5.3	5.0
50%	4.8	4.9	5.2	5.9	5.7	6.0	4.8	4.7	5.0	5.7	5.3	5.0
60%	4.8	4.8	5.1	5.4	5.1	5.6	4.7	4.7	5.0	5.7	5.2	4.9
70%	4.7	4.7	4.9	5.3	4.9	5.0	4.7	4.7	5.0	5.7	5.1	4.9
80%	4.6	4.7	4.9	5.1	4.9	4.7	4.6	4.7	4.9	5.4	5.1	4.9
90%	4.6	4.5	4.8	4.7	4.6	4.5	4.5	4.5	4.9	5.3	5.0	4.7
Long Term												
Full Simulation Period[a]	4.8	5.3	6.3	6.8	7.1	6.9	5.6	5.0	5.2	5.7	5.3	5.2
Water Year Types[b]												
Wet (31%)	5.1	6.7	9.7	8.9	10.6	10.1	7.9	5.8	5.6	5.9	5.6	6.1
Above Normal (25%)	4.6	4.7	5.4	10.1	10.1	8.7	5.6	5.0	5.0	5.7	5.3	5.3
Below Normal (6%)	4.8	5.0	4.9	6.0	6.4	5.9	4.8	4.7	5.0	5.3	5.1	4.9
Dry (13%)	4.8	5.0	5.2	5.2	5.2	5.9	4.8	4.9	5.1	5.8	5.4	4.9
Critical (25%)	4.8	4.8	5.0	5.2	4.7	4.8	4.6	4.6	4.9	5.4	5.0	4.8

Alternative 2A,2B,2C (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.5	5.7	9.0	8.7	10.3	9.6	7.0	4.9	4.9	5.2	4.8	5.4
20%	4.5	5.2	5.0	7.9	9.7	8.4	4.8	4.7	4.7	5.1	4.7	5.1
30%	4.4	4.4	4.9	6.5	6.2	6.4	4.5	4.4	4.6	5.0	4.7	4.6
40%	4.4	4.3	4.8	5.1	5.2	5.1	4.3	4.4	4.5	5.0	4.7	4.5
50%	4.3	4.3	4.7	5.0	4.9	4.8	4.2	4.3	4.5	4.9	4.6	4.4
60%	4.3	4.3	4.7	4.8	4.5	4.7	4.2	4.2	4.4	4.8	4.6	4.4
70%	4.2	4.2	4.4	4.6	4.4	4.3	4.2	4.2	4.4	4.7	4.5	4.4
80%	4.1	4.1	4.3	4.6	4.3	4.2	4.1	4.2	4.4	4.6	4.4	4.3
90%	4.1	4.0	4.3	4.3	4.1	4.1	4.0	4.0	4.3	4.4	4.4	4.2
Long Term												
Full Simulation Period[a]	4.3	4.7	5.6	5.9	6.2	6.0	5.0	4.5	4.6	4.9	4.6	4.6
Water Year Types[b]												
Wet (31%)	4.5	6.0	8.6	7.7	9.3	9.0	7.1	5.0	5.0	5.1	4.8	5.3
Above Normal (25%)	4.2	4.1	4.8	8.4	8.6	7.6	4.6	4.4	4.4	4.9	4.6	4.5
Below Normal (6%)	4.2	4.2	4.3	5.3	5.2	4.8	4.2	4.2	4.4	4.4	4.3	4.2
Dry (13%)	4.2	4.4	4.6	4.6	4.6	4.8	4.3	4.5	4.6	5.0	4.6	4.4
Critical (25%)	4.3	4.3	4.5	4.6	4.2	4.2	4.1	4.1	4.3	4.7	4.4	4.3

Alternative 2A,2B,2C (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-0.5**	**-0.8**	**-1.5**	**-1.7**	**-1.4**	**-1.1**	**-1.2**	**-0.8**	**-0.5**	**-0.8**	**-0.8**	**-0.8**
20%	**-0.4**	**-0.4**	**-0.7**	**-1.6**	**-1.2**	**-1.2**	**-0.8**	**-0.4**	**-0.6**	**-0.8**	**-0.7**	**-0.7**
30%	**-0.4**	**-0.7**	**-0.6**	**-1.0**	**-1.7**	**-1.5**	**-0.6**	**-0.6**	**-0.5**	**-0.8**	**-0.7**	**-0.7**
40%	**-0.5**	**-0.6**	**-0.6**	**-0.9**	**-1.2**	**-1.2**	**-0.6**	**-0.5**	**-0.6**	**-0.8**	**-0.7**	**-0.5**
50%	**-0.5**	**-0.6**	**-0.5**	**-0.9**	**-0.8**	**-1.2**	**-0.6**	**-0.4**	**-0.6**	**-0.8**	**-0.7**	**-0.5**
60%	**-0.5**	**-0.5**	**-0.5**	**-0.7**	**-0.6**	**-0.9**	**-0.5**	**-0.4**	**-0.6**	**-0.9**	**-0.7**	**-0.5**
70%	**-0.5**	**-0.5**	**-0.5**	**-0.6**	**-0.5**	**-0.7**	**-0.5**	**-0.5**	**-0.6**	**-1.0**	**-0.6**	**-0.5**
80%	**-0.5**	**-0.6**	**-0.6**	**-0.5**	**-0.5**	**-0.5**	**-0.5**	**-0.5**	**-0.6**	**-0.8**	**-0.7**	**-0.5**
90%	**-0.5**	**-0.5**	**-0.5**	**-0.4**	**-0.5**	**-0.5**	**-0.5**	**-0.4**	**-0.6**	**-0.8**	**-0.6**	**-0.5**
Long Term												
Full Simulation Period[a]	**-0.5**	**-0.6**	**-0.7**	**-0.9**	**-0.9**	**-0.9**	**-0.6**	**-0.5**	**-0.6**	**-0.8**	**-0.7**	**-0.6**
Water Year Types[b]												
Wet (31%)	**-0.6**	**-0.8**	**-1.1**	**-1.2**	**-1.3**	**-1.1**	**-0.8**	**-0.7**	**-0.7**	**-0.8**	**-0.7**	**-0.8**
Above Normal (25%)	**-0.4**	**-0.6**	**-0.6**	**-1.7**	**-1.5**	**-1.2**	**-1.0**	**-0.6**	**-0.6**	**-0.8**	**-0.8**	**-0.7**
Below Normal (6%)	**-0.6**	**-0.7**	**-0.6**	**-0.7**	**-1.2**	**-1.1**	**-0.6**	**-0.5**	**-0.6**	**-0.9**	**-0.7**	**-0.7**
Dry (13%)	**-0.5**	**-0.6**	**-0.6**	**-0.6**	**-0.6**	**-1.1**	**-0.5**	**-0.5**	**-0.5**	**-0.8**	**-0.7**	**-0.5**
Critical (25%)	**-0.5**	**-0.5**	**-0.5**	**-0.6**	**-0.5**	**-0.6**	**-0.5**	**-0.4**	**-0.6**	**-0.8**	**-0.6**	**-0.5**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-30-1-16. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5.0	6.5	10.5	10.4	11.6	10.8	8.1	5.7	5.4	6.0	5.6	6.2
20%	4.9	5.7	5.6	9.5	10.9	9.6	5.6	5.1	5.3	5.9	5.4	5.7
30%	4.8	5.2	5.6	7.5	7.9	7.9	5.1	5.0	5.2	5.8	5.4	5.3
40%	4.8	5.0	5.4	6.0	6.4	6.3	4.9	4.9	5.1	5.7	5.3	5.0
50%	4.8	4.9	5.2	5.9	5.7	6.0	4.8	4.7	5.0	5.7	5.3	5.0
60%	4.8	4.8	5.1	5.4	5.1	5.6	4.7	4.7	5.0	5.7	5.2	4.9
70%	4.7	4.7	4.9	5.3	4.9	5.0	4.7	4.7	5.0	5.7	5.1	4.9
80%	4.6	4.7	4.9	5.1	4.9	4.7	4.6	4.7	4.9	5.4	5.1	4.9
90%	4.6	4.5	4.8	4.7	4.6	4.5	4.5	4.5	4.9	5.3	5.0	4.7
Long Term												
Full Simulation Period[a]	4.8	5.3	6.3	6.8	7.1	6.9	5.6	5.0	5.2	5.7	5.3	5.2
Water Year Types[b]												
Wet (31%)	5.1	6.7	9.7	8.9	10.6	10.1	7.9	5.8	5.6	5.9	5.6	6.1
Above Normal (25%)	4.6	4.7	5.4	10.1	10.1	8.7	5.6	5.0	5.0	5.7	5.3	5.3
Below Normal (6%)	4.8	5.0	4.9	6.0	6.4	5.9	4.8	4.7	5.0	5.3	5.1	4.9
Dry (13%)	4.8	5.0	5.2	5.2	5.2	5.9	4.8	4.9	5.1	5.8	5.4	4.9
Critical (25%)	4.8	4.8	5.0	5.2	4.7	4.8	4.6	4.6	4.9	5.4	5.0	4.8

Alternative 3 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.9	5.9	9.6	9.0	10.5	9.6	7.0	5.0	4.9	5.1	4.8	4.7
20%	4.8	5.2	5.0	8.3	9.6	8.3	4.8	4.7	4.7	5.0	4.7	4.5
30%	4.6	4.3	5.0	6.4	6.6	6.7	4.5	4.4	4.6	5.0	4.7	4.5
40%	4.5	4.3	4.9	5.3	5.3	5.2	4.3	4.4	4.5	4.9	4.7	4.4
50%	4.3	4.3	4.7	5.0	4.9	4.9	4.2	4.3	4.4	4.8	4.6	4.4
60%	4.2	4.2	4.6	4.7	4.5	4.7	4.2	4.3	4.4	4.8	4.5	4.4
70%	4.2	4.2	4.4	4.6	4.4	4.5	4.2	4.2	4.4	4.7	4.5	4.4
80%	4.2	4.1	4.4	4.5	4.4	4.2	4.2	4.2	4.3	4.5	4.4	4.3
90%	4.1	4.0	4.2	4.3	4.1	4.1	4.0	4.1	4.3	4.4	4.3	4.2
Long Term												
Full Simulation Period[a]	4.4	4.7	5.7	5.9	6.3	6.1	5.0	4.5	4.6	4.8	4.6	4.5
Water Year Types[b]												
Wet (31%)	4.5	6.1	8.9	7.6	9.4	8.9	7.1	5.1	5.0	5.0	4.8	4.8
Above Normal (25%)	4.4	4.1	4.8	8.8	8.9	7.4	4.7	4.4	4.4	4.8	4.5	4.3
Below Normal (6%)	4.5	4.2	4.3	5.3	5.3	4.9	4.2	4.2	4.3	4.2	4.4	4.3
Dry (13%)	4.2	4.4	4.6	4.7	4.6	5.1	4.3	4.5	4.6	5.0	4.6	4.4
Critical (25%)	4.6	4.2	4.5	4.6	4.3	4.2	4.1	4.1	4.3	4.6	4.4	4.4

Alternative 3 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-0.2**	**-0.6**	**-0.8**	**-1.3**	**-1.1**	**-1.1**	**-1.1**	**-0.7**	**-0.5**	**-0.8**	**-0.8**	**-1.4**
20%	**-0.1**	**-0.5**	**-0.6**	**-1.2**	**-1.3**	**-1.3**	**-0.8**	**-0.4**	**-0.6**	**-0.9**	**-0.7**	**-1.2**
30%	**-0.3**	**-0.8**	**-0.6**	**-1.0**	**-1.3**	**-1.3**	**-0.6**	**-0.6**	**-0.6**	**-0.9**	**-0.7**	**-0.8**
40%	**-0.3**	**-0.7**	**-0.5**	**-0.7**	**-1.0**	**-1.1**	**-0.6**	**-0.5**	**-0.6**	**-0.8**	**-0.7**	**-0.6**
50%	**-0.5**	**-0.6**	**-0.6**	**-0.9**	**-0.8**	**-1.1**	**-0.5**	**-0.4**	**-0.6**	**-0.9**	**-0.7**	**-0.5**
60%	**-0.5**	**-0.5**	**-0.6**	**-0.7**	**-0.6**	**-0.9**	**-0.5**	**-0.4**	**-0.6**	**-0.9**	**-0.7**	**-0.5**
70%	**-0.5**	**-0.5**	**-0.5**	**-0.7**	**-0.5**	**-0.6**	**-0.5**	**-0.5**	**-0.6**	**-1.0**	**-0.6**	**-0.5**
80%	**-0.4**	**-0.6**	**-0.6**	**-0.7**	**-0.5**	**-0.5**	**-0.5**	**-0.5**	**-0.6**	**-0.9**	**-0.7**	**-0.6**
90%	**-0.5**	**-0.5**	**-0.5**	**-0.4**	**-0.4**	**-0.5**	**-0.5**	**-0.4**	**-0.6**	**-0.8**	**-0.6**	**-0.5**
Long Term												
Full Simulation Period[a]	**-0.4**	**-0.6**	**-0.6**	**-0.9**	**-0.8**	**-0.9**	**-0.6**	**-0.5**	**-0.6**	**-0.8**	**-0.7**	**-0.7**
Water Year Types[b]												
Wet (31%)	**-0.6**	**-0.6**	**-0.8**	**-1.2**	**-1.2**	**-1.2**	**-0.8**	**-0.6**	**-0.6**	**-0.9**	**-0.8**	**-1.3**
Above Normal (25%)	**-0.2**	**-0.5**	**-0.6**	**-1.3**	**-1.2**	**-1.3**	**-0.9**	**-0.6**	**-0.6**	**-0.9**	**-0.8**	**-0.9**
Below Normal (6%)	**-0.3**	**-0.7**	**-0.6**	**-0.7**	**-1.0**	**-1.0**	**-0.6**	**-0.5**	**-0.7**	**-1.0**	**-0.7**	**-0.6**
Dry (13%)	**-0.6**	**-0.6**	**-0.5**	**-0.5**	**-0.7**	**-0.8**	**-0.5**	**-0.5**	**-0.6**	**-0.8**	**-0.7**	**-0.5**
Critical (25%)	**-0.2**	**-0.6**	**-0.5**	**-0.7**	**-0.5**	**-0.6**	**-0.5**	**-0.4**	**-0.6**	**-0.8**	**-0.6**	**-0.5**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-30-1-17. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5.0	6.5	10.5	10.4	11.6	10.8	8.1	5.7	5.4	6.0	5.6	6.2
20%	4.9	5.7	5.6	9.5	10.9	9.6	5.6	5.1	5.3	5.9	5.4	5.7
30%	4.8	5.2	5.6	7.5	7.9	7.9	5.1	5.0	5.2	5.8	5.4	5.3
40%	4.8	5.0	5.4	6.0	6.4	6.3	4.9	4.9	5.1	5.7	5.3	5.0
50%	4.8	4.9	5.2	5.9	5.7	6.0	4.8	4.7	5.0	5.7	5.3	5.0
60%	4.8	4.8	5.1	5.4	5.1	5.6	4.7	4.7	5.0	5.7	5.2	4.9
70%	4.7	4.7	4.9	5.3	4.9	5.0	4.7	4.7	5.0	5.7	5.1	4.9
80%	4.6	4.7	4.9	5.1	4.9	4.7	4.6	4.7	4.9	5.4	5.1	4.9
90%	4.6	4.5	4.8	4.7	4.6	4.5	4.5	4.5	4.9	5.3	5.0	4.7
Long Term												
Full Simulation Period[a]	4.8	5.3	6.3	6.8	7.1	6.9	5.6	5.0	5.2	5.7	5.3	5.2
Water Year Types[b]												
Wet (31%)	5.1	6.7	9.7	8.9	10.6	10.1	7.9	5.8	5.6	5.9	5.6	6.1
Above Normal (25%)	4.6	4.7	5.4	10.1	10.1	8.7	5.6	5.0	5.0	5.7	5.3	5.3
Below Normal (6%)	4.8	5.0	4.9	6.0	6.4	5.9	4.8	4.7	5.0	5.3	5.1	4.9
Dry (13%)	4.8	5.0	5.2	5.2	5.2	5.9	4.8	4.9	5.1	5.8	5.4	4.9
Critical (25%)	4.8	4.8	5.0	5.2	4.7	4.8	4.6	4.6	4.9	5.4	5.0	4.8

Alternative 4 H1 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.6	5.9	9.4	8.8	10.5	9.3	6.9	4.9	4.8	5.2	4.9	4.7
20%	4.4	5.2	5.1	8.0	9.3	8.0	4.7	4.6	4.7	5.2	4.8	4.7
30%	4.4	4.3	5.0	6.3	6.4	6.7	4.5	4.4	4.6	5.1	4.7	4.5
40%	4.4	4.3	4.8	5.0	5.2	5.1	4.3	4.4	4.5	5.0	4.7	4.4
50%	4.3	4.3	4.7	5.0	4.8	4.8	4.2	4.3	4.4	4.9	4.6	4.4
60%	4.3	4.3	4.7	4.9	4.5	4.7	4.2	4.2	4.4	4.8	4.6	4.4
70%	4.2	4.2	4.5	4.7	4.4	4.4	4.2	4.2	4.4	4.7	4.5	4.4
80%	4.1	4.0	4.3	4.7	4.3	4.2	4.1	4.2	4.3	4.6	4.4	4.3
90%	4.1	4.0	4.2	4.4	4.2	4.1	4.0	4.1	4.3	4.4	4.4	4.3
Long Term												
Full Simulation Period[a]	4.3	4.7	5.6	5.9	6.2	6.0	4.9	4.5	4.5	4.9	4.6	4.5
Water Year Types[b]												
Wet (31%)	4.5	6.1	8.7	7.5	9.3	8.8	6.9	5.0	4.9	5.1	4.8	4.8
Above Normal (25%)	4.1	4.1	4.8	8.7	8.9	7.3	4.6	4.4	4.4	5.0	4.6	4.3
Below Normal (6%)	4.4	4.3	4.3	5.3	5.2	4.8	4.2	4.2	4.4	4.4	4.4	4.3
Dry (13%)	4.2	4.4	4.6	4.6	4.5	5.1	4.3	4.5	4.6	5.0	4.7	4.4
Critical (25%)	4.3	4.2	4.5	4.7	4.3	4.2	4.1	4.1	4.3	4.6	4.4	4.3

Alternative 4 H1 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-0.5**	**-0.6**	**-1.1**	**-1.6**	**-1.1**	**-1.4**	**-1.3**	**-0.8**	**-0.6**	**-0.7**	**-0.7**	**-1.4**
20%	**-0.5**	**-0.5**	**-0.6**	**-1.5**	**-1.5**	**-1.6**	**-0.8**	**-0.5**	**-0.6**	**-0.7**	**-0.7**	**-1.1**
30%	**-0.5**	**-0.8**	**-0.6**	**-1.2**	**-1.5**	**-1.2**	**-0.6**	**-0.6**	**-0.6**	**-0.8**	**-0.7**	**-0.8**
40%	**-0.5**	**-0.7**	**-0.6**	**-1.0**	**-1.2**	**-1.2**	**-0.6**	**-0.5**	**-0.6**	**-0.7**	**-0.7**	**-0.6**
50%	**-0.5**	**-0.6**	**-0.5**	**-0.9**	**-0.9**	**-1.2**	**-0.6**	**-0.4**	**-0.6**	**-0.8**	**-0.7**	**-0.5**
60%	**-0.5**	**-0.5**	**-0.4**	**-0.5**	**-0.6**	**-0.9**	**-0.5**	**-0.4**	**-0.6**	**-0.9**	**-0.7**	**-0.5**
70%	**-0.5**	**-0.5**	**-0.5**	**-0.5**	**-0.5**	**-0.7**	**-0.5**	**-0.5**	**-0.6**	**-0.9**	**-0.6**	**-0.5**
80%	**-0.5**	**-0.6**	**-0.6**	**-0.4**	**-0.5**	**-0.5**	**-0.5**	**-0.5**	**-0.6**	**-0.8**	**-0.7**	**-0.6**
90%	**-0.5**	**-0.5**	**-0.6**	**-0.4**	**-0.4**	**-0.5**	**-0.5**	**-0.4**	**-0.6**	**-0.8**	**-0.6**	**-0.5**
Long Term												
Full Simulation Period[a]	**-0.5**	**-0.6**	**-0.6**	**-0.9**	**-0.9**	**-0.9**	**-0.7**	**-0.5**	**-0.6**	**-0.8**	**-0.7**	**-0.7**
Water Year Types[b]												
Wet (31%)	**-0.6**	**-0.7**	**-1.0**	**-1.4**	**-1.3**	**-1.2**	**-0.9**	**-0.7**	**-0.7**	**-0.8**	**-0.7**	**-1.3**
Above Normal (25%)	**-0.4**	**-0.6**	**-0.6**	**-1.4**	**-1.2**	**-1.4**	**-1.0**	**-0.6**	**-0.6**	**-0.7**	**-0.8**	**-0.9**
Below Normal (6%)	**-0.5**	**-0.7**	**-0.6**	**-0.7**	**-1.1**	**-1.1**	**-0.6**	**-0.5**	**-0.7**	**-0.9**	**-0.7**	**-0.6**
Dry (13%)	**-0.6**	**-0.6**	**-0.5**	**-0.6**	**-0.7**	**-0.9**	**-0.5**	**-0.5**	**-0.6**	**-0.8**	**-0.7**	**-0.4**
Critical (25%)	**-0.4**	**-0.6**	**-0.5**	**-0.5**	**-0.5**	**-0.6**	**-0.5**	**-0.4**	**-0.6**	**-0.8**	**-0.6**	**-0.5**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-30-1-18. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5.0	6.5	10.5	10.4	11.6	10.8	8.1	5.7	5.4	6.0	5.6	6.2
20%	4.9	5.7	5.6	9.5	10.9	9.6	5.6	5.1	5.3	5.9	5.4	5.7
30%	4.8	5.2	5.6	7.5	7.9	7.9	5.1	5.0	5.2	5.8	5.4	5.3
40%	4.8	5.0	5.4	6.0	6.4	6.3	4.9	4.9	5.1	5.7	5.3	5.0
50%	4.8	4.9	5.2	5.9	5.7	6.0	4.8	4.7	5.0	5.7	5.3	5.0
60%	4.8	4.8	5.1	5.4	5.1	5.6	4.7	4.7	5.0	5.7	5.2	4.9
70%	4.7	4.7	4.9	5.3	4.9	5.0	4.7	4.7	5.0	5.7	5.1	4.9
80%	4.6	4.7	4.9	5.1	4.9	4.7	4.6	4.7	4.9	5.4	5.1	4.9
90%	4.6	4.5	4.8	4.7	4.6	4.5	4.5	4.5	4.9	5.3	5.0	4.7
Long Term												
Full Simulation Period[a]	4.8	5.3	6.3	6.8	7.1	6.9	5.6	5.0	5.2	5.7	5.3	5.2
Water Year Types[b]												
Wet (31%)	5.1	6.7	9.7	8.9	10.6	10.1	7.9	5.8	5.6	5.9	5.6	6.1
Above Normal (25%)	4.6	4.7	5.4	10.1	10.1	8.7	5.6	5.0	5.0	5.7	5.3	5.3
Below Normal (6%)	4.8	5.0	4.9	6.0	6.4	5.9	4.8	4.7	5.0	5.3	5.1	4.9
Dry (13%)	4.8	5.0	5.2	5.2	5.2	5.9	4.8	4.9	5.1	5.8	5.4	4.9
Critical (25%)	4.8	4.8	5.0	5.2	4.7	4.8	4.6	4.6	4.9	5.4	5.0	4.8

Alternative 4 H2 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.6	6.0	9.5	8.8	10.5	9.3	7.0	4.9	4.7	5.1	4.8	4.7
20%	4.5	5.3	5.1	8.0	9.3	8.1	5.0	4.7	4.7	5.0	4.7	4.5
30%	4.5	4.4	5.0	6.3	6.5	6.9	4.9	4.6	4.6	4.9	4.7	4.5
40%	4.3	4.3	4.8	5.0	5.2	5.1	4.6	4.4	4.5	4.8	4.6	4.4
50%	4.2	4.3	4.7	5.0	4.8	4.9	4.3	4.4	4.4	4.7	4.6	4.4
60%	4.2	4.3	4.5	4.7	4.5	4.7	4.2	4.3	4.4	4.7	4.6	4.4
70%	4.2	4.2	4.4	4.7	4.4	4.4	4.2	4.2	4.3	4.7	4.5	4.4
80%	4.1	4.1	4.2	4.6	4.3	4.2	4.1	4.2	4.3	4.5	4.4	4.3
90%	4.1	4.0	4.2	4.5	4.1	4.1	4.0	4.1	4.3	4.4	4.4	4.2
Long Term												
Full Simulation Period[a]	4.3	4.7	5.6	5.9	6.2	6.0	5.1	4.5	4.5	4.8	4.6	4.5
Water Year Types[b]												
Wet (31%)	4.5	6.1	8.8	7.5	9.2	8.8	7.3	5.1	4.8	5.0	4.8	4.8
Above Normal (25%)	4.2	4.1	4.9	8.8	8.9	7.4	5.1	4.5	4.3	4.6	4.6	4.3
Below Normal (6%)	4.2	4.2	4.2	5.3	5.3	4.9	4.2	4.2	4.4	4.4	4.4	4.3
Dry (13%)	4.2	4.4	4.6	4.6	4.5	5.1	4.3	4.4	4.5	4.9	4.6	4.4
Critical (25%)	4.4	4.2	4.5	4.7	4.3	4.2	4.1	4.1	4.3	4.6	4.4	4.4

Alternative 4 H2 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-0.4**	**-0.5**	**-1.0**	**-1.5**	**-1.1**	**-1.4**	**-1.1**	**-0.7**	**-0.7**	**-0.8**	**-0.8**	**-1.4**
20%	**-0.4**	**-0.4**	**-0.5**	**-1.5**	**-1.5**	**-1.6**	**-0.6**	**-0.4**	**-0.6**	**-0.9**	**-0.7**	**-1.2**
30%	**-0.3**	**-0.8**	**-0.6**	**-1.2**	**-1.4**	**-1.0**	**-0.2**	**-0.4**	**-0.6**	**-0.9**	**-0.7**	**-0.8**
40%	**-0.5**	**-0.7**	**-0.6**	**-1.0**	**-1.2**	**-1.2**	**-0.3**	**-0.4**	**-0.6**	**-0.9**	**-0.7**	**-0.5**
50%	**-0.6**	**-0.6**	**-0.5**	**-0.9**	**-0.9**	**-1.2**	**-0.4**	**-0.4**	**-0.6**	**-1.0**	**-0.7**	**-0.5**
60%	**-0.5**	**-0.5**	**-0.6**	**-0.7**	**-0.6**	**-0.9**	**-0.5**	**-0.4**	**-0.7**	**-1.0**	**-0.6**	**-0.5**
70%	**-0.5**	**-0.5**	**-0.5**	**-0.6**	**-0.5**	**-0.7**	**-0.5**	**-0.5**	**-0.6**	**-1.0**	**-0.6**	**-0.5**
80%	**-0.5**	**-0.6**	**-0.7**	**-0.5**	**-0.5**	**-0.5**	**-0.5**	**-0.5**	**-0.6**	**-0.9**	**-0.7**	**-0.6**
90%	**-0.5**	**-0.5**	**-0.6**	**-0.3**	**-0.4**	**-0.4**	**-0.5**	**-0.4**	**-0.6**	**-0.8**	**-0.6**	**-0.5**
Long Term												
Full Simulation Period[a]	**-0.5**	**-0.6**	**-0.6**	**-0.9**	**-0.9**	**-0.9**	**-0.5**	**-0.5**	**-0.7**	**-0.9**	**-0.7**	**-0.7**
Water Year Types[b]												
Wet (31%)	**-0.6**	**-0.6**	**-0.9**	**-1.4**	**-1.4**	**-1.2**	**-0.6**	**-0.7**	**-0.8**	**-0.9**	**-0.7**	**-1.3**
Above Normal (25%)	**-0.4**	**-0.6**	**-0.5**	**-1.3**	**-1.2**	**-1.3**	**-0.5**	**-0.4**	**-0.7**	**-1.1**	**-0.7**	**-0.9**
Below Normal (6%)	**-0.6**	**-0.8**	**-0.7**	**-0.7**	**-1.0**	**-0.9**	**-0.6**	**-0.5**	**-0.6**	**-0.9**	**-0.7**	**-0.6**
Dry (13%)	**-0.6**	**-0.6**	**-0.6**	**-0.6**	**-0.7**	**-0.8**	**-0.5**	**-0.5**	**-0.6**	**-0.9**	**-0.7**	**-0.5**
Critical (25%)	**-0.4**	**-0.6**	**-0.5**	**-0.6**	**-0.5**	**-0.6**	**-0.5**	**-0.4**	**-0.6**	**-0.8**	**-0.5**	**-0.4**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-30-1-19. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5.0	6.5	10.5	10.4	11.6	10.8	8.1	5.7	5.4	6.0	5.6	6.2
20%	4.9	5.7	5.6	9.5	10.9	9.6	5.6	5.1	5.3	5.9	5.4	5.7
30%	4.8	5.2	5.6	7.5	7.9	7.9	5.1	5.0	5.2	5.8	5.4	5.3
40%	4.8	5.0	5.4	6.0	6.4	6.3	4.9	4.9	5.1	5.7	5.3	5.0
50%	4.8	4.9	5.2	5.9	5.7	6.0	4.8	4.7	5.0	5.7	5.3	5.0
60%	4.8	4.8	5.1	5.4	5.1	5.6	4.7	4.7	5.0	5.7	5.2	4.9
70%	4.7	4.7	4.9	5.3	4.9	5.0	4.7	4.7	5.0	5.7	5.1	4.9
80%	4.6	4.7	4.9	5.1	4.9	4.7	4.6	4.7	4.9	5.4	5.1	4.9
90%	4.6	4.5	4.8	4.7	4.6	4.5	4.5	4.5	4.9	5.3	5.0	4.7
Long Term												
Full Simulation Period[a]	4.8	5.3	6.3	6.8	7.1	6.9	5.6	5.0	5.2	5.7	5.3	5.2
Water Year Types[b]												
Wet (31%)	5.1	6.7	9.7	8.9	10.6	10.1	7.9	5.8	5.6	5.9	5.6	6.1
Above Normal (25%)	4.6	4.7	5.4	10.1	10.1	8.7	5.6	5.0	5.0	5.7	5.3	5.3
Below Normal (6%)	4.8	5.0	4.9	6.0	6.4	5.9	4.8	4.7	5.0	5.3	5.1	4.9
Dry (13%)	4.8	5.0	5.2	5.2	5.2	5.9	4.8	4.9	5.1	5.8	5.4	4.9
Critical (25%)	4.8	4.8	5.0	5.2	4.7	4.8	4.6	4.6	4.9	5.4	5.0	4.8

Alternative 4 H3 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.6	5.9	9.2	8.8	10.2	9.3	6.9	4.9	4.8	5.2	4.8	5.3
20%	4.5	5.2	5.0	8.0	9.3	8.0	4.7	4.6	4.7	5.2	4.7	5.1
30%	4.4	4.4	5.0	6.3	6.4	6.4	4.5	4.4	4.6	5.0	4.7	4.6
40%	4.4	4.3	4.9	5.0	5.2	5.1	4.3	4.4	4.5	5.0	4.7	4.5
50%	4.2	4.3	4.8	5.0	4.8	4.8	4.2	4.3	4.5	4.8	4.6	4.4
60%	4.2	4.3	4.7	5.0	4.5	4.7	4.2	4.2	4.4	4.8	4.6	4.4
70%	4.1	4.2	4.4	4.7	4.4	4.4	4.1	4.2	4.4	4.7	4.5	4.4
80%	4.1	4.0	4.3	4.6	4.3	4.2	4.1	4.2	4.3	4.6	4.4	4.3
90%	4.1	4.0	4.2	4.3	4.1	4.1	4.0	4.1	4.3	4.4	4.4	4.2
Long Term												
Full Simulation Period[a]	4.3	4.7	5.6	5.9	6.2	5.9	4.9	4.5	4.5	4.9	4.6	4.6
Water Year Types[b]												
Wet (31%)	4.5	6.0	8.7	7.5	9.2	8.7	7.0	5.0	4.9	5.1	4.8	5.3
Above Normal (25%)	4.2	4.1	4.9	8.6	8.6	7.3	4.6	4.4	4.4	5.0	4.6	4.5
Below Normal (6%)	4.2	4.3	4.2	5.3	5.2	4.8	4.2	4.2	4.4	4.4	4.4	4.2
Dry (13%)	4.2	4.4	4.6	4.6	4.5	4.9	4.3	4.5	4.6	5.0	4.6	4.4
Critical (25%)	4.3	4.3	4.5	4.7	4.3	4.2	4.1	4.1	4.3	4.6	4.4	4.3

Alternative 4 H3 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-0.5**	**-0.6**	**-1.2**	**-1.6**	**-1.4**	**-1.4**	**-1.3**	**-0.7**	**-0.6**	**-0.7**	**-0.8**	**-0.9**
20%	**-0.4**	**-0.5**	**-0.6**	**-1.5**	**-1.5**	**-1.6**	**-0.8**	**-0.5**	**-0.5**	**-0.7**	**-0.7**	**-0.6**
30%	**-0.5**	**-0.7**	**-0.6**	**-1.2**	**-1.5**	**-1.5**	**-0.6**	**-0.6**	**-0.6**	**-0.8**	**-0.7**	**-0.7**
40%	**-0.5**	**-0.6**	**-0.5**	**-1.0**	**-1.2**	**-1.2**	**-0.6**	**-0.5**	**-0.6**	**-0.8**	**-0.7**	**-0.5**
50%	**-0.6**	**-0.6**	**-0.4**	**-0.9**	**-0.9**	**-1.2**	**-0.6**	**-0.4**	**-0.6**	**-0.9**	**-0.7**	**-0.5**
60%	**-0.6**	**-0.5**	**-0.4**	**-0.5**	**-0.6**	**-0.9**	**-0.6**	**-0.4**	**-0.6**	**-0.9**	**-0.7**	**-0.5**
70%	**-0.6**	**-0.5**	**-0.5**	**-0.6**	**-0.5**	**-0.7**	**-0.5**	**-0.5**	**-0.6**	**-1.0**	**-0.6**	**-0.5**
80%	**-0.5**	**-0.6**	**-0.6**	**-0.5**	**-0.5**	**-0.5**	**-0.5**	**-0.5**	**-0.6**	**-0.8**	**-0.7**	**-0.5**
90%	**-0.5**	**-0.5**	**-0.6**	**-0.5**	**-0.4**	**-0.5**	**-0.5**	**-0.4**	**-0.6**	**-0.8**	**-0.6**	**-0.5**
Long Term												
Full Simulation Period[a]	**-0.5**	**-0.6**	**-0.6**	**-0.9**	**-0.9**	**-1.0**	**-0.7**	**-0.5**	**-0.6**	**-0.8**	**-0.7**	**-0.6**
Water Year Types[b]												
Wet (31%)	**-0.6**	**-0.7**	**-1.0**	**-1.4**	**-1.4**	**-1.4**	**-0.8**	**-0.7**	**-0.7**	**-0.8**	**-0.7**	**-0.8**
Above Normal (25%)	**-0.3**	**-0.6**	**-0.5**	**-1.5**	**-1.5**	**-1.4**	**-1.0**	**-0.6**	**-0.6**	**-0.8**	**-0.8**	**-0.8**
Below Normal (6%)	**-0.6**	**-0.7**	**-0.7**	**-0.7**	**-1.1**	**-1.1**	**-0.6**	**-0.5**	**-0.6**	**-0.9**	**-0.7**	**-0.7**
Dry (13%)	**-0.5**	**-0.6**	**-0.5**	**-0.6**	**-0.7**	**-1.0**	**-0.5**	**-0.5**	**-0.6**	**-0.8**	**-0.7**	**-0.5**
Critical (25%)	**-0.5**	**-0.6**	**-0.5**	**-0.6**	**-0.5**	**-0.6**	**-0.5**	**-0.4**	**-0.6**	**-0.8**	**-0.6**	**-0.5**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-30-1-20. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5.0	6.5	10.5	10.4	11.6	10.8	8.1	5.7	5.4	6.0	5.6	6.2
20%	4.9	5.7	5.6	9.5	10.9	9.6	5.6	5.1	5.3	5.9	5.4	5.7
30%	4.8	5.2	5.6	7.5	7.9	7.9	5.1	5.0	5.2	5.8	5.4	5.3
40%	4.8	5.0	5.4	6.0	6.4	6.3	4.9	4.9	5.1	5.7	5.3	5.0
50%	4.8	4.9	5.2	5.9	5.7	6.0	4.8	4.7	5.0	5.7	5.3	5.0
60%	4.8	4.8	5.1	5.4	5.1	5.6	4.7	4.7	5.0	5.7	5.2	4.9
70%	4.7	4.7	4.9	5.3	4.9	5.0	4.7	4.7	5.0	5.7	5.1	4.9
80%	4.6	4.7	4.9	5.1	4.9	4.7	4.6	4.7	4.9	5.4	5.1	4.9
90%	4.6	4.5	4.8	4.7	4.6	4.5	4.5	4.5	4.9	5.3	5.0	4.7
Long Term												
Full Simulation Period[a]	4.8	5.3	6.3	6.8	7.1	6.9	5.6	5.0	5.2	5.7	5.3	5.2
Water Year Types[b]												
Wet (31%)	5.1	6.7	9.7	8.9	10.6	10.1	7.9	5.8	5.6	5.9	5.6	6.1
Above Normal (25%)	4.6	4.7	5.4	10.1	10.1	8.7	5.6	5.0	5.0	5.7	5.3	5.3
Below Normal (6%)	4.8	5.0	4.9	6.0	6.4	5.9	4.8	4.7	5.0	5.3	5.1	4.9
Dry (13%)	4.8	5.0	5.2	5.2	5.2	5.9	4.8	4.9	5.1	5.8	5.4	4.9
Critical (25%)	4.8	4.8	5.0	5.2	4.7	4.8	4.6	4.6	4.9	5.4	5.0	4.8

Alternative 4 H4 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.6	5.8	9.3	8.8	10.2	9.3	7.0	4.9	4.7	5.1	4.8	5.3
20%	4.5	5.2	5.0	8.0	9.3	8.1	5.0	4.7	4.7	4.9	4.7	5.2
30%	4.4	4.4	5.0	6.3	6.5	6.8	4.9	4.6	4.6	4.9	4.7	4.6
40%	4.3	4.3	4.8	5.0	5.2	5.1	4.6	4.4	4.5	4.7	4.6	4.5
50%	4.3	4.3	4.7	4.9	4.8	4.8	4.3	4.3	4.4	4.7	4.6	4.4
60%	4.2	4.3	4.5	4.7	4.5	4.7	4.2	4.3	4.3	4.7	4.6	4.4
70%	4.1	4.2	4.4	4.6	4.4	4.4	4.2	4.2	4.3	4.6	4.6	4.4
80%	4.1	4.1	4.3	4.4	4.3	4.2	4.1	4.2	4.3	4.5	4.4	4.4
90%	4.1	4.0	4.2	4.2	4.1	4.1	4.0	4.1	4.3	4.5	4.3	4.2
Long Term												
Full Simulation Period[a]	4.3	4.7	5.6	5.9	6.2	6.0	5.1	4.5	4.5	4.8	4.6	4.6
Water Year Types[b]												
Wet (31%)	4.5	6.0	8.7	7.5	9.2	8.7	7.3	5.1	4.8	5.0	4.8	5.3
Above Normal (25%)	4.2	4.1	4.9	8.8	8.7	7.4	5.1	4.5	4.3	4.6	4.6	4.5
Below Normal (6%)	4.2	4.3	4.3	5.3	5.3	4.8	4.2	4.2	4.4	4.4	4.3	4.2
Dry (13%)	4.2	4.4	4.6	4.6	4.5	5.1	4.3	4.4	4.5	4.8	4.6	4.4
Critical (25%)	4.3	4.3	4.5	4.5	4.3	4.2	4.1	4.1	4.3	4.6	4.5	4.4

Alternative 4 H4 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-0.5**	**-0.7**	**-1.2**	**-1.5**	**-1.4**	**-1.4**	**-1.1**	**-0.7**	**-0.7**	**-0.8**	**-0.8**	**-0.9**
20%	**-0.4**	**-0.5**	**-0.6**	**-1.5**	**-1.5**	**-1.6**	**-0.6**	**-0.5**	**-0.6**	**-1.0**	**-0.7**	**-0.6**
30%	**-0.4**	**-0.7**	**-0.6**	**-1.2**	**-1.4**	**-1.2**	**-0.2**	**-0.5**	**-0.6**	**-1.0**	**-0.7**	**-0.7**
40%	**-0.5**	**-0.6**	**-0.6**	**-1.0**	**-1.2**	**-1.2**	**-0.3**	**-0.4**	**-0.6**	**-1.0**	**-0.7**	**-0.5**
50%	**-0.5**	**-0.6**	**-0.5**	**-0.9**	**-0.9**	**-1.2**	**-0.4**	**-0.4**	**-0.6**	**-1.0**	**-0.7**	**-0.5**
60%	**-0.5**	**-0.5**	**-0.6**	**-0.7**	**-0.6**	**-0.9**	**-0.5**	**-0.4**	**-0.7**	**-1.0**	**-0.6**	**-0.5**
70%	**-0.6**	**-0.5**	**-0.5**	**-0.7**	**-0.5**	**-0.7**	**-0.5**	**-0.5**	**-0.6**	**-1.0**	**-0.6**	**-0.5**
80%	**-0.5**	**-0.6**	**-0.6**	**-0.8**	**-0.5**	**-0.5**	**-0.5**	**-0.5**	**-0.6**	**-0.9**	**-0.7**	**-0.5**
90%	**-0.5**	**-0.5**	**-0.6**	**-0.5**	**-0.4**	**-0.5**	**-0.4**	**-0.4**	**-0.6**	**-0.8**	**-0.6**	**-0.5**
Long Term												
Full Simulation Period[a]	**-0.5**	**-0.6**	**-0.7**	**-0.9**	**-0.9**	**-1.0**	**-0.5**	**-0.5**	**-0.7**	**-0.9**	**-0.7**	**-0.6**
Water Year Types[b]												
Wet (31%)	**-0.5**	**-0.8**	**-1.0**	**-1.4**	**-1.4**	**-1.3**	**-0.6**	**-0.7**	**-0.8**	**-0.9**	**-0.7**	**-0.8**
Above Normal (25%)	**-0.3**	**-0.6**	**-0.5**	**-1.3**	**-1.4**	**-1.4**	**-0.5**	**-0.4**	**-0.7**	**-1.1**	**-0.7**	**-0.7**
Below Normal (6%)	**-0.7**	**-0.7**	**-0.6**	**-0.7**	**-1.1**	**-1.1**	**-0.6**	**-0.5**	**-0.6**	**-0.9**	**-0.8**	**-0.6**
Dry (13%)	**-0.6**	**-0.6**	**-0.6**	**-0.6**	**-0.7**	**-0.8**	**-0.6**	**-0.5**	**-0.6**	**-0.9**	**-0.7**	**-0.5**
Critical (25%)	**-0.5**	**-0.5**	**-0.5**	**-0.7**	**-0.5**	**-0.6**	**-0.5**	**-0.4**	**-0.6**	**-0.8**	**-0.5**	**-0.4**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-30-1-21. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5.0	6.5	10.5	10.4	11.6	10.8	8.1	5.7	5.4	6.0	5.6	6.2
20%	4.9	5.7	5.6	9.5	10.9	9.6	5.6	5.1	5.3	5.9	5.4	5.7
30%	4.8	5.2	5.6	7.5	7.9	7.9	5.1	5.0	5.2	5.8	5.4	5.3
40%	4.8	5.0	5.4	6.0	6.4	6.3	4.9	4.9	5.1	5.7	5.3	5.0
50%	4.8	4.9	5.2	5.9	5.7	6.0	4.8	4.7	5.0	5.7	5.3	5.0
60%	4.8	4.8	5.1	5.4	5.1	5.6	4.7	4.7	5.0	5.7	5.2	4.9
70%	4.7	4.7	4.9	5.3	4.9	5.0	4.7	4.7	5.0	5.7	5.1	4.9
80%	4.6	4.7	4.9	5.1	4.9	4.7	4.6	4.7	4.9	5.4	5.1	4.9
90%	4.6	4.5	4.8	4.7	4.6	4.5	4.5	4.5	4.9	5.3	5.0	4.7
Long Term												
Full Simulation Period[a]	4.8	5.3	6.3	6.8	7.1	6.9	5.6	5.0	5.2	5.7	5.3	5.2
Water Year Types[b]												
Wet (31%)	5.1	6.7	9.7	8.9	10.6	10.1	7.9	5.8	5.6	5.9	5.6	6.1
Above Normal (25%)	4.6	4.7	5.4	10.1	10.1	8.7	5.6	5.0	5.0	5.7	5.3	5.3
Below Normal (6%)	4.8	5.0	4.9	6.0	6.4	5.9	4.8	4.7	5.0	5.3	5.1	4.9
Dry (13%)	4.8	5.0	5.2	5.2	5.2	5.9	4.8	4.9	5.1	5.8	5.4	4.9
Critical (25%)	4.8	4.8	5.0	5.2	4.7	4.8	4.6	4.6	4.9	5.4	5.0	4.8

Alternative 5 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.5	6.0	9.7	9.3	10.8	9.9	7.3	5.0	4.8	5.2	4.9	5.3
20%	4.5	5.1	5.0	8.5	10.0	8.6	4.9	4.6	4.7	5.1	4.8	5.1
30%	4.4	4.5	4.9	6.5	6.8	6.9	4.6	4.4	4.6	5.0	4.7	4.5
40%	4.4	4.4	4.9	5.1	5.5	5.3	4.3	4.4	4.5	5.0	4.6	4.4
50%	4.2	4.3	4.7	5.1	4.9	5.1	4.3	4.3	4.5	5.0	4.6	4.4
60%	4.2	4.3	4.6	4.8	4.5	4.8	4.2	4.2	4.4	4.9	4.5	4.4
70%	4.1	4.2	4.4	4.6	4.4	4.4	4.2	4.2	4.4	4.8	4.5	4.4
80%	4.1	4.0	4.3	4.6	4.4	4.2	4.1	4.2	4.4	4.6	4.4	4.3
90%	4.1	4.0	4.3	4.3	4.1	4.1	4.0	4.1	4.3	4.5	4.3	4.2
Long Term												
Full Simulation Period[a]	4.3	4.8	5.7	6.0	6.4	6.2	5.0	4.5	4.6	4.9	4.6	4.6
Water Year Types[b]												
Wet (31%)	4.4	6.2	9.0	7.9	9.7	9.2	7.2	5.2	5.0	5.1	4.8	5.3
Above Normal (25%)	4.0	4.1	4.8	9.2	9.2	7.7	4.8	4.4	4.5	4.9	4.5	4.5
Below Normal (6%)	4.2	4.3	4.3	5.3	5.5	5.0	4.2	4.2	4.5	4.6	4.3	4.2
Dry (13%)	4.2	4.4	4.6	4.6	4.6	5.1	4.3	4.4	4.6	5.0	4.7	4.3
Critical (25%)	4.3	4.3	4.5	4.6	4.3	4.2	4.1	4.1	4.3	4.7	4.4	4.3

Alternative 5 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-0.5**	**-0.5**	**-0.7**	**-1.1**	**-0.8**	**-0.8**	**-0.9**	**-0.6**	**-0.6**	**-0.8**	**-0.7**	**-0.9**
20%	**-0.4**	**-0.6**	**-0.7**	**-1.0**	**-0.9**	**-1.0**	**-0.7**	**-0.5**	**-0.6**	**-0.8**	**-0.6**	**-0.6**
30%	**-0.4**	**-0.7**	**-0.6**	**-0.9**	**-1.0**	**-1.1**	**-0.5**	**-0.6**	**-0.5**	**-0.8**	**-0.7**	**-0.8**
40%	**-0.5**	**-0.6**	**-0.6**	**-0.9**	**-0.9**	**-1.0**	**-0.6**	**-0.5**	**-0.6**	**-0.7**	**-0.7**	**-0.5**
50%	**-0.6**	**-0.6**	**-0.6**	**-0.8**	**-0.8**	**-0.9**	**-0.5**	**-0.4**	**-0.5**	**-0.7**	**-0.7**	**-0.5**
60%	**-0.6**	**-0.5**	**-0.6**	**-0.7**	**-0.6**	**-0.8**	**-0.5**	**-0.5**	**-0.6**	**-0.8**	**-0.7**	**-0.5**
70%	**-0.6**	**-0.5**	**-0.5**	**-0.6**	**-0.5**	**-0.6**	**-0.5**	**-0.5**	**-0.6**	**-0.9**	**-0.6**	**-0.5**
80%	**-0.5**	**-0.6**	**-0.6**	**-0.6**	**-0.5**	**-0.5**	**-0.5**	**-0.5**	**-0.6**	**-0.8**	**-0.7**	**-0.6**
90%	**-0.5**	**-0.5**	**-0.5**	**-0.4**	**-0.4**	**-0.5**	**-0.5**	**-0.4**	**-0.6**	**-0.7**	**-0.6**	**-0.5**
Long Term												
Full Simulation Period[a]	**-0.5**	**-0.6**	**-0.6**	**-0.7**	**-0.7**	**-0.8**	**-0.6**	**-0.5**	**-0.6**	**-0.8**	**-0.7**	**-0.6**
Water Year Types[b]												
Wet (31%)	**-0.6**	**-0.5**	**-0.7**	**-1.0**	**-0.9**	**-0.9**	**-0.6**	**-0.6**	**-0.6**	**-0.8**	**-0.7**	**-0.8**
Above Normal (25%)	**-0.5**	**-0.5**	**-0.6**	**-0.9**	**-0.9**	**-1.0**	**-0.8**	**-0.6**	**-0.5**	**-0.8**	**-0.8**	**-0.8**
Below Normal (6%)	**-0.7**	**-0.7**	**-0.6**	**-0.7**	**-0.9**	**-0.9**	**-0.6**	**-0.5**	**-0.6**	**-0.7**	**-0.7**	**-0.7**
Dry (13%)	**-0.6**	**-0.6**	**-0.6**	**-0.6**	**-0.6**	**-0.8**	**-0.5**	**-0.5**	**-0.6**	**-0.8**	**-0.7**	**-0.5**
Critical (25%)	**-0.4**	**-0.6**	**-0.5**	**-0.6**	**-0.5**	**-0.5**	**-0.5**	**-0.5**	**-0.6**	**-0.7**	**-0.6**	**-0.5**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-30-1-22. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5.0	6.5	10.5	10.4	11.6	10.8	8.1	5.7	5.4	6.0	5.6	6.2
20%	4.9	5.7	5.6	9.5	10.9	9.6	5.6	5.1	5.3	5.9	5.4	5.7
30%	4.8	5.2	5.6	7.5	7.9	7.9	5.1	5.0	5.2	5.8	5.4	5.3
40%	4.8	5.0	5.4	6.0	6.4	6.3	4.9	4.9	5.1	5.7	5.3	5.0
50%	4.8	4.9	5.2	5.9	5.7	6.0	4.8	4.7	5.0	5.7	5.3	5.0
60%	4.8	4.8	5.1	5.4	5.1	5.6	4.7	4.7	5.0	5.7	5.2	4.9
70%	4.7	4.7	4.9	5.3	4.9	5.0	4.7	4.7	5.0	5.7	5.1	4.9
80%	4.6	4.7	4.9	5.1	4.9	4.7	4.6	4.7	4.9	5.4	5.1	4.9
90%	4.6	4.5	4.8	4.7	4.6	4.5	4.5	4.5	4.9	5.3	5.0	4.7
Long Term												
Full Simulation Period[a]	4.8	5.3	6.3	6.8	7.1	6.9	5.6	5.0	5.2	5.7	5.3	5.2
Water Year Types[b]												
Wet (31%)	5.1	6.7	9.7	8.9	10.6	10.1	7.9	5.8	5.6	5.9	5.6	6.1
Above Normal (25%)	4.6	4.7	5.4	10.1	10.1	8.7	5.6	5.0	5.0	5.7	5.3	5.3
Below Normal (6%)	4.8	5.0	4.9	6.0	6.4	5.9	4.8	4.7	5.0	5.3	5.1	4.9
Dry (13%)	4.8	5.0	5.2	5.2	5.2	5.9	4.8	4.9	5.1	5.8	5.4	4.9
Critical (25%)	4.8	4.8	5.0	5.2	4.7	4.8	4.6	4.6	4.9	5.4	5.0	4.8

Alternative 6A,6B,6C (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.5	6.2	9.1	8.2	10.0	9.3	6.9	4.8	4.7	5.0	4.9	5.1
20%	4.4	5.3	5.0	7.8	9.1	8.3	4.8	4.5	4.6	4.8	4.8	5.0
30%	4.3	4.5	5.0	6.4	6.2	6.5	4.5	4.4	4.5	4.8	4.7	4.6
40%	4.3	4.4	4.8	5.2	5.2	5.1	4.3	4.4	4.4	4.8	4.7	4.5
50%	4.3	4.3	4.7	5.1	4.9	4.8	4.2	4.3	4.4	4.7	4.6	4.5
60%	4.2	4.3	4.5	4.8	4.9	4.7	4.2	4.2	4.3	4.7	4.6	4.5
70%	4.2	4.3	4.4	4.6	4.4	4.4	4.2	4.2	4.3	4.7	4.5	4.4
80%	4.2	4.0	4.3	4.3	4.3	4.2	4.1	4.1	4.2	4.6	4.5	4.4
90%	4.1	4.0	4.2	4.2	4.1	4.0	4.0	4.0	4.2	4.5	4.4	4.2
Long Term												
Full Simulation Period[a]	4.3	4.7	5.6	5.8	6.1	6.0	4.9	4.4	4.5	4.7	4.6	4.6
Water Year Types[b]												
Wet (31%)	4.5	6.0	8.7	7.4	9.2	8.8	7.0	5.0	4.8	5.0	4.9	5.1
Above Normal (25%)	4.0	4.2	4.8	8.2	8.1	7.5	4.6	4.4	4.3	4.7	4.6	4.5
Below Normal (6%)	4.2	4.3	4.2	5.3	5.2	4.7	4.2	4.2	4.4	4.5	4.5	4.4
Dry (13%)	4.3	4.4	4.6	4.6	4.6	5.0	4.3	4.3	4.5	4.7	4.6	4.4
Critical (25%)	4.3	4.3	4.5	4.5	4.3	4.1	4.0	4.1	4.3	4.6	4.5	4.4

Alternative 6A,6B,6C (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-0.5**	**-0.3**	**-1.3**	**-2.1**	**-1.6**	**-1.5**	**-1.2**	**-0.8**	**-0.7**	**-1.0**	**-0.7**	**-1.0**
20%	**-0.5**	**-0.4**	**-0.6**	**-1.8**	**-1.7**	**-1.3**	**-0.8**	**-0.7**	**-0.7**	**-1.1**	**-0.7**	**-0.7**
30%	**-0.5**	**-0.7**	**-0.6**	**-1.0**	**-1.7**	**-1.4**	**-0.6**	**-0.6**	**-0.7**	**-1.0**	**-0.7**	**-0.7**
40%	**-0.5**	**-0.6**	**-0.7**	**-0.8**	**-1.1**	**-1.2**	**-0.6**	**-0.5**	**-0.7**	**-0.9**	**-0.7**	**-0.4**
50%	**-0.6**	**-0.5**	**-0.5**	**-0.8**	**-0.8**	**-1.2**	**-0.6**	**-0.4**	**-0.7**	**-1.0**	**-0.7**	**-0.5**
60%	**-0.5**	**-0.5**	**-0.6**	**-0.7**	**-0.2**	**-0.8**	**-0.5**	**-0.5**	**-0.7**	**-1.0**	**-0.7**	**-0.4**
70%	**-0.5**	**-0.4**	**-0.5**	**-0.6**	**-0.5**	**-0.7**	**-0.5**	**-0.5**	**-0.6**	**-1.0**	**-0.6**	**-0.5**
80%	**-0.5**	**-0.6**	**-0.7**	**-0.8**	**-0.5**	**-0.5**	**-0.6**	**-0.5**	**-0.7**	**-0.8**	**-0.6**	**-0.5**
90%	**-0.5**	**-0.5**	**-0.6**	**-0.5**	**-0.4**	**-0.5**	**-0.5**	**-0.5**	**-0.6**	**-0.7**	**-0.5**	**-0.5**
Long Term												
Full Simulation Period[a]	**-0.5**	**-0.6**	**-0.7**	**-1.0**	**-0.9**	**-1.0**	**-0.7**	**-0.6**	**-0.7**	**-0.9**	**-0.6**	**-0.6**
Water Year Types[b]												
Wet (31%)	**-0.5**	**-0.7**	**-1.0**	**-1.5**	**-1.3**	**-1.2**	**-0.8**	**-0.7**	**-0.8**	**-0.9**	**-0.7**	**-1.0**
Above Normal (25%)	**-0.5**	**-0.5**	**-0.6**	**-1.9**	**-2.0**	**-1.3**	**-1.0**	**-0.6**	**-0.7**	**-1.0**	**-0.8**	**-0.8**
Below Normal (6%)	**-0.6**	**-0.7**	**-0.7**	**-0.7**	**-1.1**	**-1.1**	**-0.5**	**-0.5**	**-0.7**	**-0.8**	**-0.6**	**-0.5**
Dry (13%)	**-0.5**	**-0.6**	**-0.6**	**-0.6**	**-0.6**	**-0.9**	**-0.5**	**-0.6**	**-0.7**	**-1.0**	**-0.7**	**-0.4**
Critical (25%)	**-0.5**	**-0.5**	**-0.5**	**-0.7**	**-0.4**	**-0.6**	**-0.5**	**-0.5**	**-0.6**	**-0.8**	**-0.5**	**-0.4**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-30-1-23. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5.0	6.5	10.5	10.4	11.6	10.8	8.1	5.7	5.4	6.0	5.6	6.2
20%	4.9	5.7	5.6	9.5	10.9	9.6	5.6	5.1	5.3	5.9	5.4	5.7
30%	4.8	5.2	5.6	7.5	7.9	7.9	5.1	5.0	5.2	5.8	5.4	5.3
40%	4.8	5.0	5.4	6.0	6.4	6.3	4.9	4.9	5.1	5.7	5.3	5.0
50%	4.8	4.9	5.2	5.9	5.7	6.0	4.8	4.7	5.0	5.7	5.3	5.0
60%	4.8	4.8	5.1	5.4	5.1	5.6	4.7	4.7	5.0	5.7	5.2	4.9
70%	4.7	4.7	4.9	5.3	4.9	5.0	4.7	4.7	5.0	5.7	5.1	4.9
80%	4.6	4.7	4.9	5.1	4.9	4.7	4.6	4.7	4.9	5.4	5.1	4.9
90%	4.6	4.5	4.8	4.7	4.6	4.5	4.5	4.5	4.9	5.3	5.0	4.7
Long Term												
Full Simulation Period[a]	4.8	5.3	6.3	6.8	7.1	6.9	5.6	5.0	5.2	5.7	5.3	5.2
Water Year Types[b]												
Wet (31%)	5.1	6.7	9.7	8.9	10.6	10.1	7.9	5.8	5.6	5.9	5.6	6.1
Above Normal (25%)	4.6	4.7	5.4	10.1	10.1	8.7	5.6	5.0	5.0	5.7	5.3	5.3
Below Normal (6%)	4.8	5.0	4.9	6.0	6.4	5.9	4.8	4.7	5.0	5.3	5.1	4.9
Dry (13%)	4.8	5.0	5.2	5.2	5.2	5.9	4.8	4.9	5.1	5.8	5.4	4.9
Critical (25%)	4.8	4.8	5.0	5.2	4.7	4.8	4.6	4.6	4.9	5.4	5.0	4.8

Alternative 7 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.5	6.0	9.5	8.7	10.2	9.3	6.8	4.8	4.8	5.2	4.9	5.3
20%	4.4	5.2	5.0	8.1	9.3	8.0	4.7	4.5	4.6	5.1	4.7	5.1
30%	4.3	4.5	5.0	6.2	6.4	6.3	4.5	4.4	4.6	4.9	4.7	4.5
40%	4.3	4.4	4.7	5.0	5.1	5.0	4.3	4.4	4.5	4.9	4.7	4.5
50%	4.3	4.4	4.7	5.0	4.9	4.8	4.2	4.3	4.5	4.8	4.6	4.4
60%	4.3	4.3	4.5	4.7	4.8	4.7	4.2	4.2	4.4	4.8	4.6	4.4
70%	4.2	4.3	4.4	4.6	4.4	4.4	4.2	4.2	4.3	4.7	4.6	4.4
80%	4.2	4.1	4.3	4.4	4.3	4.2	4.1	4.1	4.3	4.6	4.5	4.3
90%	4.1	4.0	4.2	4.2	4.1	4.0	4.0	4.1	4.3	4.6	4.4	4.2
Long Term												
Full Simulation Period[a]	4.3	4.8	5.6	5.8	6.2	5.9	4.9	4.4	4.5	4.8	4.6	4.6
Water Year Types[b]												
Wet (31%)	4.5	6.1	8.8	7.4	9.1	8.7	6.9	5.0	4.9	5.1	4.8	5.3
Above Normal (25%)	4.0	4.2	4.8	8.7	8.6	7.1	4.6	4.4	4.4	4.7	4.6	4.5
Below Normal (6%)	4.3	4.3	4.2	5.3	5.2	4.9	4.3	4.2	4.3	4.6	4.4	4.3
Dry (13%)	4.3	4.4	4.6	4.6	4.6	5.0	4.3	4.3	4.5	5.0	4.7	4.3
Critical (25%)	4.2	4.3	4.5	4.5	4.3	4.2	4.1	4.2	4.4	4.6	4.5	4.3

Alternative 7 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-0.5**	**-0.5**	**-0.9**	**-1.7**	**-1.4**	**-1.4**	**-1.3**	**-0.8**	**-0.7**	**-0.8**	**-0.7**	**-0.9**
20%	**-0.5**	**-0.5**	**-0.6**	**-1.5**	**-1.6**	**-1.6**	**-0.9**	**-0.6**	**-0.6**	**-0.8**	**-0.7**	**-0.6**
30%	**-0.5**	**-0.7**	**-0.6**	**-1.2**	**-1.5**	**-1.6**	**-0.6**	**-0.6**	**-0.6**	**-0.9**	**-0.7**	**-0.7**
40%	**-0.5**	**-0.6**	**-0.7**	**-1.0**	**-1.3**	**-1.3**	**-0.6**	**-0.5**	**-0.6**	**-0.9**	**-0.7**	**-0.5**
50%	**-0.5**	**-0.5**	**-0.5**	**-0.9**	**-0.8**	**-1.2**	**-0.5**	**-0.4**	**-0.6**	**-0.9**	**-0.7**	**-0.5**
60%	**-0.5**	**-0.5**	**-0.6**	**-0.7**	**-0.2**	**-0.9**	**-0.5**	**-0.5**	**-0.6**	**-0.9**	**-0.7**	**-0.5**
70%	**-0.5**	**-0.4**	**-0.5**	**-0.6**	**-0.5**	**-0.7**	**-0.5**	**-0.5**	**-0.6**	**-1.0**	**-0.6**	**-0.5**
80%	**-0.5**	**-0.6**	**-0.7**	**-0.8**	**-0.5**	**-0.5**	**-0.6**	**-0.5**	**-0.6**	**-0.8**	**-0.6**	**-0.5**
90%	**-0.5**	**-0.5**	**-0.6**	**-0.5**	**-0.4**	**-0.5**	**-0.5**	**-0.4**	**-0.6**	**-0.7**	**-0.5**	**-0.5**
Long Term												
Full Simulation Period[a]	**-0.5**	**-0.6**	**-0.7**	**-1.0**	**-0.9**	**-1.0**	**-0.7**	**-0.6**	**-0.6**	**-0.8**	**-0.6**	**-0.6**
Water Year Types[b]												
Wet (31%)	**-0.5**	**-0.7**	**-0.9**	**-1.5**	**-1.4**	**-1.4**	**-1.0**	**-0.8**	**-0.7**	**-0.8**	**-0.8**	**-0.8**
Above Normal (25%)	**-0.5**	**-0.5**	**-0.6**	**-1.4**	**-1.5**	**-1.7**	**-1.0**	**-0.6**	**-0.6**	**-1.0**	**-0.8**	**-0.7**
Below Normal (6%)	**-0.6**	**-0.7**	**-0.7**	**-0.7**	**-1.2**	**-1.0**	**-0.5**	**-0.5**	**-0.7**	**-0.7**	**-0.7**	**-0.6**
Dry (13%)	**-0.5**	**-0.6**	**-0.6**	**-0.6**	**-0.7**	**-0.9**	**-0.5**	**-0.6**	**-0.6**	**-0.8**	**-0.7**	**-0.5**
Critical (25%)	**-0.5**	**-0.5**	**-0.5**	**-0.7**	**-0.4**	**-0.6**	**-0.5**	**-0.4**	**-0.5**	**-0.8**	**-0.5**	**-0.5**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-30-1-24. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5.0	6.5	10.5	10.4	11.6	10.8	8.1	5.7	5.4	6.0	5.6	6.2
20%	4.9	5.7	5.6	9.5	10.9	9.6	5.6	5.1	5.3	5.9	5.4	5.7
30%	4.8	5.2	5.6	7.5	7.9	7.9	5.1	5.0	5.2	5.8	5.4	5.3
40%	4.8	5.0	5.4	6.0	6.4	6.3	4.9	4.9	5.1	5.7	5.3	5.0
50%	4.8	4.9	5.2	5.9	5.7	6.0	4.8	4.7	5.0	5.7	5.3	5.0
60%	4.8	4.8	5.1	5.4	5.1	5.6	4.7	4.7	5.0	5.7	5.2	4.9
70%	4.7	4.7	4.9	5.3	4.9	5.0	4.7	4.7	5.0	5.7	5.1	4.9
80%	4.6	4.7	4.9	5.1	4.9	4.7	4.6	4.7	4.9	5.4	5.1	4.9
90%	4.6	4.5	4.8	4.7	4.6	4.5	4.5	4.5	4.9	5.3	5.0	4.7
Long Term												
Full Simulation Period[a]	4.8	5.3	6.3	6.8	7.1	6.9	5.6	5.0	5.2	5.7	5.3	5.2
Water Year Types[b]												
Wet (31%)	5.1	6.7	9.7	8.9	10.6	10.1	7.9	5.8	5.6	5.9	5.6	6.1
Above Normal (25%)	4.6	4.7	5.4	10.1	10.1	8.7	5.6	5.0	5.0	5.7	5.3	5.3
Below Normal (6%)	4.8	5.0	4.9	6.0	6.4	5.9	4.8	4.7	5.0	5.3	5.1	4.9
Dry (13%)	4.8	5.0	5.2	5.2	5.2	5.9	4.8	4.9	5.1	5.8	5.4	4.9
Critical (25%)	4.8	4.8	5.0	5.2	4.7	4.8	4.6	4.6	4.9	5.4	5.0	4.8

Alternative 8 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.5	6.2	9.5	8.7	10.1	9.3	7.0	5.0	4.7	4.9	4.8	5.2
20%	4.3	5.3	5.0	8.1	9.3	7.9	5.0	4.6	4.6	4.7	4.7	5.0
30%	4.3	4.4	5.0	6.3	6.8	6.7	4.6	4.5	4.5	4.7	4.6	4.5
40%	4.2	4.4	4.7	5.4	5.1	5.2	4.4	4.4	4.5	4.7	4.6	4.4
50%	4.1	4.3	4.7	5.1	5.0	5.1	4.3	4.4	4.5	4.7	4.6	4.4
60%	4.1	4.3	4.5	4.8	4.9	4.8	4.3	4.4	4.4	4.6	4.5	4.4
70%	4.1	4.3	4.4	4.7	4.5	4.6	4.3	4.3	4.3	4.6	4.4	4.4
80%	4.0	4.0	4.2	4.4	4.4	4.3	4.2	4.2	4.3	4.6	4.4	4.2
90%	4.0	4.0	4.2	4.3	4.2	4.2	4.2	4.2	4.3	4.4	4.4	4.2
Long Term												
Full Simulation Period[a]	4.2	4.8	5.6	5.9	6.2	6.0	5.0	4.6	4.5	4.7	4.6	4.5
Water Year Types[b]												
Wet (31%)	4.5	6.3	8.8	7.5	9.1	8.7	6.9	5.3	4.9	4.9	4.8	5.2
Above Normal (25%)	4.0	4.1	4.8	8.9	8.6	7.2	4.8	4.5	4.4	4.5	4.5	4.4
Below Normal (6%)	4.1	4.2	4.2	5.4	5.7	5.1	4.3	4.4	4.3	4.3	4.3	4.2
Dry (13%)	4.1	4.4	4.6	4.7	4.7	5.3	4.5	4.4	4.5	4.7	4.6	4.3
Critical (25%)	4.1	4.3	4.5	4.6	4.4	4.3	4.1	4.2	4.4	4.6	4.5	4.3

Alternative 8 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-0.6**	**-0.2**	**-0.9**	**-1.7**	**-1.5**	**-1.4**	**-1.1**	**-0.7**	**-0.7**	**-1.0**	**-0.8**	**-1.0**
20%	**-0.6**	**-0.4**	**-0.7**	**-1.5**	**-1.6**	**-1.7**	**-0.6**	**-0.5**	**-0.7**	**-1.2**	**-0.8**	**-0.7**
30%	**-0.6**	**-0.7**	**-0.6**	**-1.1**	**-1.1**	**-1.3**	**-0.5**	**-0.5**	**-0.6**	**-1.1**	**-0.8**	**-0.8**
40%	**-0.6**	**-0.6**	**-0.7**	**-0.6**	**-1.2**	**-1.1**	**-0.5**	**-0.4**	**-0.6**	**-1.0**	**-0.8**	**-0.6**
50%	**-0.7**	**-0.6**	**-0.5**	**-0.7**	**-0.7**	**-1.0**	**-0.5**	**-0.3**	**-0.5**	**-1.0**	**-0.7**	**-0.6**
60%	**-0.7**	**-0.5**	**-0.6**	**-0.6**	**-0.2**	**-0.7**	**-0.4**	**-0.3**	**-0.6**	**-1.0**	**-0.7**	**-0.5**
70%	**-0.7**	**-0.5**	**-0.5**	**-0.6**	**-0.4**	**-0.5**	**-0.4**	**-0.4**	**-0.6**	**-1.1**	**-0.7**	**-0.5**
80%	**-0.6**	**-0.6**	**-0.7**	**-0.8**	**-0.5**	**-0.3**	**-0.4**	**-0.4**	**-0.6**	**-0.8**	**-0.7**	**-0.6**
90%	**-0.6**	**-0.5**	**-0.6**	**-0.5**	**-0.4**	**-0.4**	**-0.3**	**-0.3**	**-0.6**	**-0.8**	**-0.6**	**-0.6**
Long Term												
Full Simulation Period[a]	**-0.6**	**-0.5**	**-0.6**	**-0.9**	**-0.8**	**-0.9**	**-0.6**	**-0.4**	**-0.6**	**-1.0**	**-0.7**	**-0.7**
Water Year Types[b]												
Wet (31%)	**-0.6**	**-0.5**	**-0.8**	**-1.3**	**-1.5**	**-1.4**	**-0.9**	**-0.5**	**-0.7**	**-1.0**	**-0.8**	**-0.9**
Above Normal (25%)	**-0.5**	**-0.5**	**-0.6**	**-1.2**	**-1.5**	**-1.6**	**-0.8**	**-0.4**	**-0.6**	**-1.2**	**-0.9**	**-0.8**
Below Normal (6%)	**-0.8**	**-0.7**	**-0.7**	**-0.6**	**-0.6**	**-0.8**	**-0.4**	**-0.3**	**-0.7**	**-1.0**	**-0.7**	**-0.7**
Dry (13%)	**-0.6**	**-0.6**	**-0.6**	**-0.6**	**-0.5**	**-0.6**	**-0.3**	**-0.6**	**-0.7**	**-1.1**	**-0.8**	**-0.6**
Critical (25%)	**-0.6**	**-0.5**	**-0.6**	**-0.7**	**-0.4**	**-0.5**	**-0.4**	**-0.3**	**-0.5**	**-0.8**	**-0.5**	**-0.5**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-30-1-25. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5.0	6.5	10.5	10.4	11.6	10.8	8.1	5.7	5.4	6.0	5.6	6.2
20%	4.9	5.7	5.6	9.5	10.9	9.6	5.6	5.1	5.3	5.9	5.4	5.7
30%	4.8	5.2	5.6	7.5	7.9	7.9	5.1	5.0	5.2	5.8	5.4	5.3
40%	4.8	5.0	5.4	6.0	6.4	6.3	4.9	4.9	5.1	5.7	5.3	5.0
50%	4.8	4.9	5.2	5.9	5.7	6.0	4.8	4.7	5.0	5.7	5.3	5.0
60%	4.8	4.8	5.1	5.4	5.1	5.6	4.7	4.7	5.0	5.7	5.2	4.9
70%	4.7	4.7	4.9	5.3	4.9	5.0	4.7	4.7	5.0	5.7	5.1	4.9
80%	4.6	4.7	4.9	5.1	4.9	4.7	4.6	4.7	4.9	5.4	5.1	4.9
90%	4.6	4.5	4.8	4.7	4.6	4.5	4.5	4.5	4.9	5.3	5.0	4.7
Long Term												
Full Simulation Period[a]	4.8	5.3	6.3	6.8	7.1	6.9	5.6	5.0	5.2	5.7	5.3	5.2
Water Year Types[b]												
Wet (31%)	5.1	6.7	9.7	8.9	10.6	10.1	7.9	5.8	5.6	5.9	5.6	6.1
Above Normal (25%)	4.6	4.7	5.4	10.1	10.1	8.7	5.6	5.0	5.0	5.7	5.3	5.3
Below Normal (6%)	4.8	5.0	4.9	6.0	6.4	5.9	4.8	4.7	5.0	5.3	5.1	4.9
Dry (13%)	4.8	5.0	5.2	5.2	5.2	5.9	4.8	4.9	5.1	5.8	5.4	4.9
Critical (25%)	4.8	4.8	5.0	5.2	4.7	4.8	4.6	4.6	4.9	5.4	5.0	4.8

Alternative 9 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.6	6.1	10.2	9.9	11.5	10.6	7.6	5.1	4.8	5.1	5.0	5.8
20%	4.4	5.2	4.9	9.1	10.6	9.2	4.9	4.5	4.7	5.0	4.9	5.4
30%	4.4	4.6	4.8	6.7	7.2	7.2	4.5	4.4	4.6	5.0	4.8	4.7
40%	4.3	4.5	4.8	5.2	5.7	5.4	4.2	4.3	4.5	5.0	4.8	4.5
50%	4.2	4.4	4.6	5.1	4.9	5.3	4.2	4.3	4.5	4.9	4.7	4.4
60%	4.2	4.3	4.5	4.7	4.4	4.8	4.2	4.2	4.4	4.9	4.7	4.4
70%	4.2	4.2	4.4	4.5	4.3	4.4	4.1	4.2	4.4	4.8	4.6	4.4
80%	4.1	4.0	4.3	4.2	4.2	4.1	4.1	4.1	4.3	4.7	4.5	4.4
90%	4.1	4.0	4.2	4.1	4.1	4.0	3.9	4.0	4.3	4.6	4.4	4.2
Long Term												
Full Simulation Period[a]	4.3	4.8	5.7	6.2	6.6	6.4	5.1	4.5	4.6	4.9	4.7	4.7
Water Year Types[b]												
Wet (31%)	4.6	6.3	9.4	8.3	10.3	9.8	7.4	5.3	5.0	5.1	4.9	5.7
Above Normal (25%)	4.0	4.2	4.7	9.8	9.7	8.2	4.9	4.3	4.4	4.9	4.7	4.7
Below Normal (6%)	4.3	4.5	4.3	5.2	5.7	5.2	4.2	4.1	4.4	4.6	4.5	4.4
Dry (13%)	4.3	4.4	4.5	4.5	4.6	5.2	4.3	4.5	4.6	4.9	4.8	4.4
Critical (25%)	4.2	4.3	4.4	4.5	4.2	4.2	4.0	4.1	4.3	4.7	4.5	4.3

Alternative 9 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-0.5**	**-0.4**	**-0.3**	**-0.5**	**-0.2**	**-0.2**	**-0.6**	**-0.5**	**-0.6**	**-0.9**	**-0.6**	**-0.4**
20%	**-0.5**	**-0.4**	**-0.8**	**-0.4**	**-0.3**	**-0.4**	**-0.7**	**-0.6**	**-0.6**	**-0.9**	**-0.6**	**-0.3**
30%	**-0.5**	**-0.6**	**-0.7**	**-0.7**	**-0.7**	**-0.7**	**-0.6**	**-0.6**	**-0.6**	**-0.8**	**-0.6**	**-0.5**
40%	**-0.5**	**-0.5**	**-0.7**	**-0.8**	**-0.7**	**-0.9**	**-0.7**	**-0.6**	**-0.5**	**-0.7**	**-0.6**	**-0.5**
50%	**-0.6**	**-0.5**	**-0.6**	**-0.7**	**-0.7**	**-0.7**	**-0.6**	**-0.4**	**-0.6**	**-0.8**	**-0.6**	**-0.5**
60%	**-0.6**	**-0.5**	**-0.7**	**-0.7**	**-0.7**	**-0.7**	**-0.5**	**-0.5**	**-0.6**	**-0.8**	**-0.6**	**-0.5**
70%	**-0.6**	**-0.5**	**-0.5**	**-0.8**	**-0.6**	**-0.6**	**-0.5**	**-0.5**	**-0.6**	**-0.9**	**-0.5**	**-0.5**
80%	**-0.5**	**-0.6**	**-0.6**	**-0.9**	**-0.6**	**-0.6**	**-0.5**	**-0.6**	**-0.6**	**-0.7**	**-0.6**	**-0.5**
90%	**-0.5**	**-0.5**	**-0.6**	**-0.6**	**-0.5**	**-0.6**	**-0.5**	**-0.5**	**-0.6**	**-0.7**	**-0.5**	**-0.5**
Long Term												
Full Simulation Period[a]	**-0.5**	**-0.5**	**-0.5**	**-0.6**	**-0.5**	**-0.6**	**-0.5**	**-0.5**	**-0.6**	**-0.8**	**-0.6**	**-0.5**
Water Year Types[b]												
Wet (31%)	**-0.5**	**-0.4**	**-0.3**	**-0.6**	**-0.3**	**-0.3**	**-0.4**	**-0.5**	**-0.6**	**-0.8**	**-0.6**	**-0.4**
Above Normal (25%)	**-0.6**	**-0.5**	**-0.7**	**-0.3**	**-0.4**	**-0.6**	**-0.7**	**-0.6**	**-0.6**	**-0.8**	**-0.6**	**-0.5**
Below Normal (6%)	**-0.6**	**-0.5**	**-0.7**	**-0.8**	**-0.7**	**-0.7**	**-0.6**	**-0.6**	**-0.6**	**-0.7**	**-0.6**	**-0.5**
Dry (13%)	**-0.5**	**-0.6**	**-0.7**	**-0.7**	**-0.7**	**-0.7**	**-0.5**	**-0.5**	**-0.6**	**-0.8**	**-0.6**	**-0.5**
Critical (25%)	**-0.5**	**-0.5**	**-0.6**	**-0.7**	**-0.6**	**-0.6**	**-0.6**	**-0.5**	**-0.6**	**-0.7**	**-0.5**	**-0.5**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-30-2-1. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	4.6	8.8	8.3	10.2	9.5	6.2	3.0	1.5	2.0	1.4	1.6
20%	0.9	3.5	2.5	6.7	9.3	7.5	2.2	1.2	0.8	1.6	1.3	1.0
30%	0.7	1.1	1.8	4.8	5.0	5.8	1.7	1.1	0.8	1.6	1.2	0.9
40%	0.6	0.8	1.5	2.5	4.0	4.2	1.2	1.0	0.7	1.6	1.2	0.9
50%	0.6	0.6	1.3	2.4	2.6	3.3	1.0	0.8	0.7	1.6	1.1	0.8
60%	0.6	0.6	1.0	1.8	1.2	3.1	0.8	0.6	0.7	1.5	1.0	0.7
70%	0.5	0.5	0.9	1.1	1.1	1.8	0.8	0.5	0.5	1.4	0.9	0.6
80%	0.4	0.4	0.8	0.9	1.1	1.1	0.7	0.3	0.4	1.2	0.8	0.5
90%	0.3	0.2	0.4	0.6	0.5	0.6	0.5	0.1	0.3	1.1	0.6	0.5
Long Term Full Simulation Period[a]	0.8	1.7	2.7	3.5	4.1	4.4	2.2	1.4	1.1	1.6	1.1	1.0
Water Year Types[b]												
Wet (31%)	1.4	4.2	7.5	6.4	8.8	8.8	5.3	3.4	2.6	2.1	1.3	1.9
Above Normal (25%)	0.4	0.7	1.6	8.1	7.8	6.7	2.9	1.5	0.9	1.3	1.1	0.9
Below Normal (6%)	0.9	0.6	0.5	2.4	4.0	3.4	1.2	1.2	0.8	1.6	1.1	0.7
Dry (13%)	0.6	1.2	1.3	1.3	1.6	3.0	1.1	0.7	0.7	1.5	1.3	0.8
Critical (25%)	0.6	0.6	0.9	1.3	0.9	1.2	0.6	0.2	0.3	1.3	0.7	0.5

No Action Alternative (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.2	4.2	9.4	9.4	10.8	10.0	6.8	3.0	2.2	3.3	2.5	3.9
20%	2.1	3.2	2.9	8.3	10.1	8.6	3.2	2.2	2.0	3.2	2.4	3.2
30%	1.9	2.4	2.8	5.7	6.3	6.6	2.5	2.1	1.9	3.1	2.4	2.6
40%	1.9	2.1	2.5	3.5	4.2	4.7	2.2	1.9	1.8	2.9	2.3	1.9
50%	1.8	1.9	2.3	3.3	3.3	4.0	2.0	1.7	1.8	2.8	2.1	1.9
60%	1.8	1.6	2.1	2.7	2.3	3.3	1.9	1.7	1.7	2.5	2.0	1.8
70%	1.8	1.6	1.9	2.4	2.0	2.5	1.9	1.6	1.7	2.4	1.9	1.7
80%	1.7	1.5	1.7	2.1	2.0	1.9	1.8	1.5	1.5	2.3	1.8	1.7
90%	1.5	1.4	1.5	1.8	1.6	1.7	1.6	1.3	1.5	2.0	1.7	1.6
Long Term Full Simulation Period[a]	1.9	2.5	3.6	4.5	5.0	5.1	3.2	2.1	1.9	2.7	2.1	2.3
Water Year Types[b]												
Wet (31%)	2.2	4.4	8.3	7.5	9.6	9.2	6.1	3.2	2.6	2.9	2.4	3.8
Above Normal (25%)	1.7	1.7	2.7	9.0	9.0	7.7	3.5	2.1	1.9	3.1	2.4	2.6
Below Normal (6%)	2.1	2.1	1.9	3.5	4.2	3.9	2.2	1.8	2.0	2.3	2.1	1.9
Dry (13%)	1.8	2.1	2.2	2.3	2.6	3.7	2.1	1.9	1.8	2.8	2.2	1.8
Critical (25%)	1.8	1.7	1.8	2.5	1.8	2.2	1.7	1.4	1.5	2.3	1.7	1.7

No Action Alternative (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.4	**-0.4**	0.6	1.1	0.6	0.5	0.6	0.0	0.8	1.3	1.0	2.3
20%	1.2	**-0.3**	0.4	1.6	0.8	1.1	1.0	1.1	1.2	1.6	1.2	2.2
30%	1.2	1.2	1.0	0.9	1.3	0.8	0.8	1.0	1.1	1.4	1.2	1.7
40%	1.3	1.3	1.0	1.0	0.2	0.5	1.0	1.0	1.1	1.3	1.2	1.0
50%	1.3	1.3	1.0	0.9	0.8	0.7	0.9	0.9	1.1	1.2	1.1	1.1
60%	1.2	1.1	1.1	1.0	1.1	0.3	1.1	1.1	1.0	1.0	1.1	1.1
70%	1.3	1.1	1.0	1.3	0.9	0.7	1.1	1.1	1.2	1.0	1.0	1.1
80%	1.3	1.1	0.9	1.2	0.9	0.8	1.1	1.1	1.2	1.1	1.0	1.1
90%	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.2	1.2	0.9	1.1	1.2
Long Term Full Simulation Period[a]	1.1	0.9	0.9	1.0	0.9	0.7	1.0	0.8	0.9	1.1	1.1	1.4
Water Year Types[b]												
Wet (31%)	0.8	0.2	0.8	1.1	0.8	0.4	0.9	**-0.1**	0.0	0.9	1.1	1.9
Above Normal (25%)	1.2	1.0	1.1	0.8	1.2	1.0	0.5	0.6	1.0	1.7	1.3	1.7
Below Normal (6%)	1.2	1.5	1.5	1.0	0.2	0.5	1.0	0.6	1.2	0.8	0.9	1.2
Dry (13%)	1.2	0.9	0.9	1.0	0.9	0.6	1.0	1.2	1.1	1.3	0.9	1.0
Critical (25%)	1.1	1.2	0.9	1.2	1.0	1.0	1.1	1.2	1.2	1.0	1.0	1.2

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

Table C-30-2-2. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	4.6	8.8	8.3	10.2	9.5	6.2	3.0	1.5	2.0	1.4	1.6
20%	0.9	3.5	2.5	6.7	9.3	7.5	2.2	1.2	0.8	1.6	1.3	1.0
30%	0.7	1.1	1.8	4.8	5.0	5.8	1.7	1.1	0.8	1.6	1.2	0.9
40%	0.6	0.8	1.5	2.5	4.0	4.2	1.2	1.0	0.7	1.6	1.2	0.9
50%	0.6	0.6	1.3	2.4	2.6	3.3	1.0	0.8	0.7	1.6	1.1	0.8
60%	0.6	0.6	1.0	1.8	1.2	3.1	0.8	0.6	0.7	1.5	1.0	0.7
70%	0.5	0.5	0.9	1.1	1.1	1.8	0.8	0.5	0.5	1.4	0.9	0.6
80%	0.4	0.4	0.8	0.9	1.1	1.1	0.7	0.3	0.4	1.2	0.8	0.5
90%	0.3	0.2	0.4	0.6	0.5	0.6	0.5	0.1	0.3	1.1	0.6	0.5
Long Term Full Simulation Period[a]	0.8	1.7	2.7	3.5	4.1	4.4	2.2	1.4	1.1	1.6	1.1	1.0
Water Year Types[b]												
Wet (31%)	1.4	4.2	7.5	6.4	8.8	8.8	5.3	3.4	2.6	2.1	1.3	1.9
Above Normal (25%)	0.4	0.7	1.6	8.1	7.8	6.7	2.9	1.5	0.9	1.3	1.1	0.9
Below Normal (6%)	0.9	0.6	0.5	2.4	4.0	3.4	1.2	1.2	0.8	1.6	1.1	0.7
Dry (13%)	0.6	1.2	1.3	1.3	1.6	3.0	1.1	0.7	0.7	1.5	1.3	0.8
Critical (25%)	0.6	0.6	0.9	1.3	0.9	1.2	0.6	0.2	0.3	1.3	0.7	0.5

Alternative 1A,1B,1C (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.1	3.1	7.7	7.3	9.0	8.1	5.1	2.4	2.5	3.1	2.4	2.3
20%	2.7	2.9	2.5	6.2	8.0	6.5	2.7	2.3	2.4	3.1	2.4	2.2
30%	2.4	2.3	2.5	4.6	4.4	4.9	2.4	2.1	2.3	2.9	2.3	2.2
40%	2.3	2.0	2.4	2.9	2.9	3.0	2.2	2.0	2.1	2.7	2.3	2.1
50%	2.0	1.8	2.4	2.5	2.5	2.8	2.2	2.0	2.1	2.6	2.1	2.1
60%	1.9	1.7	2.2	2.3	2.0	2.6	2.1	1.9	2.1	2.4	2.1	2.1
70%	1.8	1.6	2.0	2.1	1.9	2.2	2.0	1.9	2.0	2.3	2.0	1.9
80%	1.8	1.5	1.9	1.9	1.9	1.9	1.9	1.7	2.0	2.2	1.9	1.8
90%	1.8	1.4	1.8	1.8	1.9	1.7	1.9	1.5	1.9	2.1	1.9	1.7
Long Term Full Simulation Period[a]	2.3	2.2	3.3	3.7	4.1	4.1	2.9	2.1	2.2	2.6	2.2	2.0
Water Year Types[b]												
Wet (31%)	2.0	3.8	7.0	5.7	7.8	7.4	5.2	2.7	2.5	2.9	2.1	2.0
Above Normal (25%)	2.3	1.5	2.5	6.9	7.2	5.8	2.5	2.1	2.1	2.6	2.0	1.6
Below Normal (6%)	3.2	1.5	1.9	2.9	2.9	2.7	2.1	1.9	2.3	2.1	1.8	1.8
Dry (13%)	1.9	1.8	2.2	2.4	2.1	3.0	2.3	2.1	2.2	2.9	2.5	2.1
Critical (25%)	2.6	1.8	2.0	2.0	1.9	2.0	1.9	1.7	1.9	2.3	2.1	2.2

Alternative 1A,1B,1C (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.3	**-1.5**	**-1.2**	**-1.0**	**-1.2**	**-1.4**	**-1.1**	**-0.6**	1.1	1.1	1.0	0.7
20%	1.8	**-0.6**	**0.0**	**-0.5**	**-1.3**	**-0.9**	0.5	1.1	1.6	1.4	1.1	1.2
30%	1.7	1.1	0.6	**-0.2**	**-0.6**	**-0.9**	0.7	1.0	1.5	1.3	1.1	1.2
40%	1.7	1.2	1.0	0.4	**-1.1**	**-1.2**	1.0	1.1	1.4	1.1	1.1	1.2
50%	1.5	1.2	1.1	0.1	**0.0**	**-0.5**	1.1	1.2	1.4	1.0	1.0	1.3
60%	1.3	1.1	1.2	0.5	0.8	**-0.4**	1.3	1.3	1.4	0.9	1.1	1.3
70%	1.4	1.1	1.1	1.0	0.8	0.4	1.2	1.4	1.5	0.9	1.1	1.2
80%	1.4	1.0	1.1	1.0	0.9	0.9	1.3	1.3	1.6	1.0	1.1	1.3
90%	1.5	1.2	1.4	1.1	1.4	1.2	1.4	1.4	1.6	1.0	1.2	1.2
Long Term Full Simulation Period[a]	1.5	0.6	0.6	0.2	0.0	**-0.3**	0.7	0.8	1.1	1.1	1.1	1.0
Water Year Types[b]												
Wet (31%)	0.6	**-0.4**	**-0.6**	**-0.7**	**-1.0**	**-1.4**	**-0.1**	**-0.7**	**-0.1**	0.8	0.8	0.1
Above Normal (25%)	1.9	0.8	0.9	**-1.2**	**-0.6**	**-0.9**	**-0.4**	0.6	1.2	1.3	0.9	0.7
Below Normal (6%)	2.3	0.9	1.4	0.4	**-1.1**	**-0.7**	0.9	0.7	1.5	0.5	0.7	1.1
Dry (13%)	1.4	0.6	0.9	1.1	0.4	**-0.1**	1.1	1.4	1.5	1.3	1.2	1.3
Critical (25%)	1.9	1.2	1.1	0.7	1.1	0.8	1.3	1.5	1.6	1.0	1.4	1.7

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-30-2-3. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	4.6	8.8	8.3	10.2	9.5	6.2	3.0	1.5	2.0	1.4	1.6
20%	0.9	3.5	2.5	6.7	9.3	7.5	2.2	1.2	0.8	1.6	1.3	1.0
30%	0.7	1.1	1.8	4.8	5.0	5.8	1.7	1.1	0.8	1.6	1.2	0.9
40%	0.6	0.8	1.5	2.5	4.0	4.2	1.2	1.0	0.7	1.6	1.2	0.9
50%	0.6	0.6	1.3	2.4	2.6	3.3	1.0	0.8	0.7	1.6	1.1	0.8
60%	0.6	0.6	1.0	1.8	1.2	3.1	0.8	0.6	0.7	1.5	1.0	0.7
70%	0.5	0.5	0.9	1.1	1.1	1.8	0.8	0.5	0.5	1.4	0.9	0.6
80%	0.4	0.4	0.8	0.9	1.1	1.1	0.7	0.3	0.4	1.2	0.8	0.5
90%	0.3	0.2	0.4	0.6	0.5	0.6	0.5	0.1	0.3	1.1	0.6	0.5
Long Term Full Simulation Period[a]	0.8	1.7	2.7	3.5	4.1	4.4	2.2	1.4	1.1	1.6	1.1	1.0
Water Year Types[b]												
Wet (31%)	1.4	4.2	7.5	6.4	8.8	8.8	5.3	3.4	2.6	2.1	1.3	1.9
Above Normal (25%)	0.4	0.7	1.6	8.1	7.8	6.7	2.9	1.5	0.9	1.3	1.1	0.9
Below Normal (6%)	0.9	0.6	0.5	2.4	4.0	3.4	1.2	1.2	0.8	1.6	1.1	0.7
Dry (13%)	0.6	1.2	1.3	1.3	1.6	3.0	1.1	0.7	0.7	1.5	1.3	0.8
Critical (25%)	0.6	0.6	0.9	1.3	0.9	1.2	0.6	0.2	0.3	1.3	0.7	0.5

Alternative 2A,2B,2C (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.3	3.0	7.6	7.5	9.1	8.2	5.3	2.4	2.4	3.2	2.4	3.0
20%	2.2	2.7	2.6	6.4	8.2	6.7	2.8	2.3	2.4	3.1	2.3	2.8
30%	2.1	2.0	2.5	4.4	4.5	4.7	2.3	2.2	2.2	2.9	2.3	2.4
40%	1.9	2.0	2.4	2.7	3.0	3.1	2.2	2.1	2.1	2.8	2.3	2.2
50%	1.8	1.9	2.2	2.6	2.6	2.9	2.1	2.0	2.1	2.8	2.2	2.2
60%	1.8	1.7	2.2	2.5	1.9	2.7	2.0	1.9	2.0	2.6	2.1	2.1
70%	1.8	1.7	2.0	2.2	1.9	2.2	2.0	1.8	2.0	2.4	2.1	2.1
80%	1.7	1.6	1.9	1.9	1.9	1.8	1.9	1.7	1.9	2.3	2.0	2.1
90%	1.6	1.5	1.8	1.8	1.6	1.8	1.8	1.5	1.9	2.0	2.0	2.0
Long Term Full Simulation Period[a]	1.9	2.2	3.3	3.7	4.1	4.1	2.9	2.1	2.1	2.7	2.2	2.3
Water Year Types[b]												
Wet (31%)	1.9	3.5	7.0	5.9	7.9	7.5	5.2	2.7	2.5	2.9	2.1	3.0
Above Normal (25%)	2.2	1.6	2.5	7.1	7.1	5.9	2.5	2.1	1.9	3.1	2.2	2.1
Below Normal (6%)	1.8	1.6	1.9	2.9	3.0	2.8	2.2	1.9	2.1	2.0	1.8	2.0
Dry (13%)	1.7	1.9	2.2	2.0	2.1	2.8	2.2	2.2	2.2	2.8	2.4	2.2
Critical (25%)	2.0	1.9	2.0	2.3	1.8	2.0	1.9	1.7	1.9	2.4	2.2	2.2

Alternative 2A,2B,2C (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.6	**-1.5**	**-1.2**	**-0.8**	**-1.1**	**-1.3**	**-0.9**	**-0.6**	1.0	1.3	1.0	1.3
20%	1.3	**-0.8**	0.1	**-0.3**	**-1.1**	**-0.8**	0.6	1.1	1.6	1.4	1.0	1.8
30%	1.3	0.9	0.6	**-0.4**	**-0.6**	**-1.1**	0.5	1.1	1.4	1.3	1.1	1.4
40%	1.3	1.2	0.9	0.2	**-1.0**	**-1.1**	1.0	1.1	1.4	1.3	1.1	1.3
50%	1.3	1.3	0.9	0.2	0.1	**-0.4**	1.0	1.2	1.4	1.2	1.1	1.4
60%	1.2	1.1	1.1	0.7	0.8	**-0.4**	1.2	1.3	1.4	1.0	1.2	1.4
70%	1.3	1.2	1.1	1.1	0.8	0.4	1.1	1.3	1.5	1.0	1.2	1.4
80%	1.3	1.2	1.0	1.0	0.8	0.8	1.2	1.3	1.6	1.0	1.2	1.5
90%	1.3	1.3	1.5	1.2	1.1	1.2	1.3	1.4	1.6	1.0	1.3	1.5
Long Term Full Simulation Period[a]	1.1	0.6	0.6	0.2	0.0	**-0.3**	0.7	0.8	1.1	1.1	1.1	1.4
Water Year Types[b]												
Wet (31%)	0.5	**-0.7**	**-0.5**	**-0.5**	**-0.9**	**-1.3**	**-0.1**	**-0.7**	**-0.2**	0.9	0.8	1.1
Above Normal (25%)	1.8	0.8	0.9	**-1.1**	**-0.7**	**-0.8**	**-0.4**	0.6	1.1	1.8	1.2	1.2
Below Normal (6%)	0.9	1.0	1.4	0.5	**-1.0**	**-0.6**	1.0	0.7	1.3	0.4	0.7	1.3
Dry (13%)	1.2	0.7	0.9	0.7	0.5	**-0.2**	1.1	1.4	1.5	1.3	1.1	1.4
Critical (25%)	1.4	1.4	1.1	1.0	0.9	0.8	1.3	1.5	1.6	1.1	1.4	1.6

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-30-2-4. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	4.6	8.8	8.3	10.2	9.5	6.2	3.0	1.5	2.0	1.4	1.6
20%	0.9	3.5	2.5	6.7	9.3	7.5	2.2	1.2	0.8	1.6	1.3	1.0
30%	0.7	1.1	1.8	4.8	5.0	5.8	1.7	1.1	0.8	1.6	1.2	0.9
40%	0.6	0.8	1.5	2.5	4.0	4.2	1.2	1.0	0.7	1.6	1.2	0.9
50%	0.6	0.6	1.3	2.4	2.6	3.3	1.0	0.8	0.7	1.6	1.1	0.8
60%	0.6	0.6	1.0	1.8	1.2	3.1	0.8	0.6	0.7	1.5	1.0	0.7
70%	0.5	0.5	0.9	1.1	1.1	1.8	0.8	0.5	0.5	1.4	0.9	0.6
80%	0.4	0.4	0.8	0.9	1.1	1.1	0.7	0.3	0.4	1.2	0.8	0.5
90%	0.3	0.2	0.4	0.6	0.5	0.6	0.5	0.1	0.3	1.1	0.6	0.5
Long Term Full Simulation Period[a]	0.8	1.7	2.7	3.5	4.1	4.4	2.2	1.4	1.1	1.6	1.1	1.0
Water Year Types[b]												
Wet (31%)	1.4	4.2	7.5	6.4	8.8	8.8	5.3	3.4	2.6	2.1	1.3	1.9
Above Normal (25%)	0.4	0.7	1.6	8.1	7.8	6.7	2.9	1.5	0.9	1.3	1.1	0.9
Below Normal (6%)	0.9	0.6	0.5	2.4	4.0	3.4	1.2	1.2	0.8	1.6	1.1	0.7
Dry (13%)	0.6	1.2	1.3	1.3	1.6	3.0	1.1	0.7	0.7	1.5	1.3	0.8
Critical (25%)	0.6	0.6	0.9	1.3	0.9	1.2	0.6	0.2	0.3	1.3	0.7	0.5

Alternative 3 (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.1	3.9	8.6	8.1	9.8	8.9	5.7	2.8	2.7	3.1	2.4	2.3
20%	2.8	2.9	2.9	7.1	8.9	7.3	2.9	2.3	2.4	3.0	2.3	2.2
30%	2.5	2.0	2.7	4.9	5.1	5.4	2.5	2.2	2.2	2.9	2.3	2.2
40%	2.2	1.9	2.4	3.1	3.4	3.4	2.2	2.0	2.1	2.6	2.2	2.1
50%	2.2	1.8	2.4	2.9	2.9	3.2	2.2	1.9	2.1	2.5	2.1	2.1
60%	1.9	1.8	2.3	2.5	2.2	2.8	2.1	1.9	2.0	2.4	2.1	2.1
70%	1.9	1.8	2.0	2.1	2.1	2.5	2.0	1.9	2.0	2.3	2.0	2.0
80%	1.8	1.7	2.0	2.0	2.0	2.1	2.0	1.7	1.9	2.0	2.0	2.0
90%	1.8	1.6	1.8	1.8	1.7	1.9	1.8	1.5	1.9	2.0	2.0	1.9
Long Term Full Simulation Period[a]	2.3	2.4	3.6	4.0	4.5	4.5	3.1	2.2	2.2	2.6	2.2	2.1
Water Year Types[b]												
Wet (31%)	2.1	4.2	7.6	6.3	8.5	8.1	5.6	3.0	2.8	2.8	2.1	2.4
Above Normal (25%)	2.5	1.8	2.6	7.8	7.9	6.3	2.9	2.0	2.2	2.6	2.0	2.0
Below Normal (6%)	2.8	1.8	2.0	3.1	3.4	3.1	2.2	1.9	2.1	2.0	1.8	1.8
Dry (13%)	1.9	2.0	2.3	2.3	2.4	3.3	2.3	2.2	2.1	2.9	2.4	2.1
Critical (25%)	2.7	1.8	2.0	2.2	1.9	2.1	1.9	1.7	1.9	2.3	2.2	2.2

Alternative 3 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.3	**-0.7**	**-0.2**	**-0.2**	**-0.4**	**-0.6**	**-0.4**	**-0.2**	1.2	1.2	1.0	0.7
20%	1.9	**-0.6**	0.4	0.5	**-0.4**	**-0.1**	0.7	1.1	1.6	1.4	1.1	1.2
30%	1.8	0.8	0.9	0.1	0.1	**-0.4**	0.8	1.1	1.4	1.3	1.1	1.2
40%	1.6	1.2	0.9	0.7	**-0.6**	**-0.8**	1.0	1.1	1.4	1.0	1.1	1.2
50%	1.6	1.3	1.1	0.5	0.3	**-0.1**	1.1	1.1	1.4	0.9	1.0	1.3
60%	1.4	1.2	1.3	0.7	1.0	**-0.2**	1.3	1.3	1.3	0.9	1.1	1.4
70%	1.4	1.3	1.1	1.0	1.0	0.7	1.2	1.4	1.5	0.9	1.1	1.4
80%	1.4	1.3	1.2	1.1	1.0	1.0	1.3	1.3	1.6	0.8	1.2	1.5
90%	1.5	1.4	1.4	1.2	1.2	1.3	1.3	1.4	1.6	0.9	1.3	1.4
Long Term Full Simulation Period[a]	1.5	0.8	0.9	0.5	0.4	0.1	0.8	0.8	1.1	1.0	1.1	1.2
Water Year Types[b]												
Wet (31%)	0.7	**0.0**	0.1	**0.0**	**-0.3**	**-0.7**	0.3	**-0.4**	0.2	0.7	0.8	0.5
Above Normal (25%)	2.1	1.0	0.9	**-0.3**	0.1	**-0.4**	0.0	0.5	1.3	1.3	1.0	1.0
Below Normal (6%)	1.9	1.2	1.6	0.7	**-0.6**	**-0.3**	1.0	0.7	1.4	0.4	0.7	1.1
Dry (13%)	1.4	0.8	1.1	1.0	0.8	0.3	1.1	1.5	1.4	1.3	1.1	1.3
Critical (25%)	2.0	1.3	1.1	0.9	1.0	0.9	1.3	1.5	1.6	1.0	1.4	1.7

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-30-2-5. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	4.6	8.8	8.3	10.2	9.5	6.2	3.0	1.5	2.0	1.4	1.6
20%	0.9	3.5	2.5	6.7	9.3	7.5	2.2	1.2	0.8	1.6	1.3	1.0
30%	0.7	1.1	1.8	4.8	5.0	5.8	1.7	1.1	0.8	1.6	1.2	0.9
40%	0.6	0.8	1.5	2.5	4.0	4.2	1.2	1.0	0.7	1.6	1.2	0.9
50%	0.6	0.6	1.3	2.4	2.6	3.3	1.0	0.8	0.7	1.6	1.1	0.8
60%	0.6	0.6	1.0	1.8	1.2	3.1	0.8	0.6	0.7	1.5	1.0	0.7
70%	0.5	0.5	0.9	1.1	1.1	1.8	0.8	0.5	0.5	1.4	0.9	0.6
80%	0.4	0.4	0.8	0.9	1.1	1.1	0.7	0.3	0.4	1.2	0.8	0.5
90%	0.3	0.2	0.4	0.6	0.5	0.6	0.5	0.1	0.3	1.1	0.6	0.5
Long Term												
Full Simulation Period[a]	0.8	1.7	2.7	3.5	4.1	4.4	2.2	1.4	1.1	1.6	1.1	1.0
Water Year Types[b]												
Wet (31%)	1.4	4.2	7.5	6.4	8.8	8.8	5.3	3.4	2.6	2.1	1.3	1.9
Above Normal (25%)	0.4	0.7	1.6	8.1	7.8	6.7	2.9	1.5	0.9	1.3	1.1	0.9
Below Normal (6%)	0.9	0.6	0.5	2.4	4.0	3.4	1.2	1.2	0.8	1.6	1.1	0.7
Dry (13%)	0.6	1.2	1.3	1.3	1.6	3.0	1.1	0.7	0.7	1.5	1.3	0.8
Critical (25%)	0.6	0.6	0.9	1.3	0.9	1.2	0.6	0.2	0.3	1.3	0.7	0.5

Alternative 4 H1 (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.3	3.7	8.3	7.8	9.6	8.6	5.4	2.6	2.4	3.5	2.5	2.4
20%	2.3	2.8	2.7	6.8	8.6	7.0	2.9	2.4	2.3	3.1	2.4	2.2
30%	2.1	2.0	2.6	4.6	4.7	5.3	2.3	2.2	2.1	3.0	2.3	2.2
40%	2.0	1.9	2.5	3.0	3.3	3.3	2.2	2.0	2.1	2.8	2.3	2.2
50%	1.9	1.7	2.3	2.8	2.7	3.0	2.1	2.0	2.0	2.7	2.2	2.1
60%	1.8	1.6	2.2	2.7	2.1	2.8	2.0	1.9	2.0	2.4	2.1	2.1
70%	1.7	1.6	2.0	2.5	2.0	2.2	2.0	1.8	1.9	2.4	2.1	2.1
80%	1.7	1.6	1.9	2.2	1.9	1.9	1.9	1.7	1.9	2.2	2.1	1.8
90%	1.6	1.5	1.9	1.8	1.8	1.8	1.9	1.5	1.9	2.0	1.9	1.7
Long Term												
Full Simulation Period[a]	2.0	2.3	3.5	4.0	4.4	4.3	2.9	2.1	2.1	2.7	2.2	2.1
Water Year Types[b]												
Wet (31%)	1.9	3.9	7.4	6.1	8.2	7.8	5.3	2.8	2.5	3.0	2.1	2.2
Above Normal (25%)	2.1	1.6	2.6	7.6	7.6	6.1	2.6	2.0	1.9	3.2	2.2	1.7
Below Normal (6%)	2.3	1.6	1.9	3.0	3.3	3.0	2.2	1.9	2.0	1.8	1.7	1.6
Dry (13%)	1.7	1.9	2.2	2.1	2.2	3.1	2.2	2.2	2.2	2.9	2.5	2.3
Critical (25%)	2.1	1.8	2.1	2.5	1.9	2.0	1.9	1.7	1.9	2.3	2.2	2.1

Alternative 4 H1 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.6	**-0.8**	**-0.6**	**-0.4**	**-0.6**	**-0.9**	**-0.8**	**-0.4**	1.0	1.5	1.0	0.8
20%	1.4	**-0.7**	0.2	0.1	**-0.7**	**-0.5**	0.7	1.2	1.5	1.5	1.1	1.2
30%	1.4	0.8	0.8	**-0.2**	**-0.3**	**-0.5**	0.5	1.1	1.4	1.4	1.1	1.3
40%	1.5	1.1	1.0	0.6	**-0.8**	**-0.9**	1.0	1.0	1.3	1.3	1.2	1.3
50%	1.3	1.1	1.0	0.4	0.2	**-0.4**	1.0	1.2	1.3	1.2	1.1	1.4
60%	1.2	1.1	1.1	0.9	0.9	**-0.2**	1.2	1.3	1.3	0.9	1.1	1.4
70%	1.3	1.1	1.2	1.3	0.8	0.4	1.2	1.3	1.5	1.0	1.2	1.4
80%	1.3	1.2	1.1	1.3	0.9	0.8	1.3	1.3	1.6	1.0	1.3	1.3
90%	1.4	1.3	1.5	1.2	1.3	1.2	1.4	1.4	1.6	0.9	1.2	1.3
Long Term												
Full Simulation Period[a]	1.2	0.7	0.8	0.5	0.3	**0.0**	0.7	0.8	1.1	1.1	1.1	1.1
Water Year Types[b]												
Wet (31%)	0.5	**-0.3**	**-0.1**	**-0.3**	**-0.6**	**-1.0**	0.1	**-0.6**	**-0.1**	1.0	0.8	0.3
Above Normal (25%)	1.7	0.9	0.9	**-0.6**	**-0.2**	**-0.6**	**-0.3**	0.5	1.1	1.8	1.1	0.8
Below Normal (6%)	1.4	1.0	1.4	0.6	**-0.8**	**-0.4**	1.0	0.7	1.2	0.2	0.6	0.9
Dry (13%)	1.2	0.7	0.9	0.8	0.6	0.1	1.1	1.4	1.4	1.3	1.2	1.5
Critical (25%)	1.5	1.2	1.2	1.2	1.0	0.9	1.3	1.5	1.6	1.0	1.4	1.6

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-30-2-6. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	4.6	8.8	8.3	10.2	9.5	6.2	3.0	1.5	2.0	1.4	1.6
20%	0.9	3.5	2.5	6.7	9.3	7.5	2.2	1.2	0.8	1.6	1.3	1.0
30%	0.7	1.1	1.8	4.8	5.0	5.8	1.7	1.1	0.8	1.6	1.2	0.9
40%	0.6	0.8	1.5	2.5	4.0	4.2	1.2	1.0	0.7	1.6	1.2	0.9
50%	0.6	0.6	1.3	2.4	2.6	3.3	1.0	0.8	0.7	1.6	1.1	0.8
60%	0.6	0.6	1.0	1.8	1.2	3.1	0.8	0.6	0.7	1.5	1.0	0.7
70%	0.5	0.5	0.9	1.1	1.1	1.8	0.8	0.5	0.5	1.4	0.9	0.6
80%	0.4	0.4	0.8	0.9	1.1	1.1	0.7	0.3	0.4	1.2	0.8	0.5
90%	0.3	0.2	0.4	0.6	0.5	0.6	0.5	0.1	0.3	1.1	0.6	0.5
Long Term Full Simulation Period[a]	0.8	1.7	2.7	3.5	4.1	4.4	2.2	1.4	1.1	1.6	1.1	1.0
Water Year Types[b]												
Wet (31%)	1.4	4.2	7.5	6.4	8.8	8.8	5.3	3.4	2.6	2.1	1.3	1.9
Above Normal (25%)	0.4	0.7	1.6	8.1	7.8	6.7	2.9	1.5	0.9	1.3	1.1	0.9
Below Normal (6%)	0.9	0.6	0.5	2.4	4.0	3.4	1.2	1.2	0.8	1.6	1.1	0.7
Dry (13%)	0.6	1.2	1.3	1.3	1.6	3.0	1.1	0.7	0.7	1.5	1.3	0.8
Critical (25%)	0.6	0.6	0.9	1.3	0.9	1.2	0.6	0.2	0.3	1.3	0.7	0.5

Alternative 4 H2 (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.5	3.8	8.4	7.8	9.6	8.6	5.8	2.7	2.4	3.0	2.4	2.3
20%	2.4	2.9	2.8	6.8	8.6	7.0	3.4	2.4	2.2	2.7	2.4	2.2
30%	2.1	2.0	2.6	4.6	4.8	5.5	3.0	2.4	2.1	2.6	2.3	2.2
40%	2.0	1.9	2.6	2.8	3.3	3.3	2.5	2.3	2.0	2.6	2.2	2.1
50%	1.9	1.7	2.2	2.7	2.7	3.1	2.2	2.0	2.0	2.5	2.2	2.1
60%	1.9	1.7	2.0	2.6	2.0	2.8	2.1	1.9	2.0	2.4	2.1	2.1
70%	1.8	1.6	1.9	2.4	2.0	2.3	2.0	1.8	1.9	2.1	2.1	2.0
80%	1.7	1.6	1.7	2.1	1.9	1.9	1.9	1.7	1.9	2.0	2.1	1.8
90%	1.7	1.5	1.7	1.9	1.6	1.8	1.8	1.5	1.9	1.9	1.9	1.7
Long Term Full Simulation Period[a]	2.0	2.3	3.4	4.0	4.3	4.4	3.2	2.2	2.1	2.4	2.2	2.1
Water Year Types[b]												
Wet (31%)	2.0	4.0	7.5	6.1	8.2	7.8	5.8	2.9	2.5	2.6	2.1	2.2
Above Normal (25%)	2.2	1.6	2.6	7.7	7.7	6.2	3.5	2.4	1.9	2.3	2.1	1.7
Below Normal (6%)	1.6	1.6	1.7	3.0	3.4	3.1	2.2	1.9	2.0	1.8	1.7	1.6
Dry (13%)	1.8	1.9	2.1	2.1	2.2	3.2	2.2	2.1	2.2	2.7	2.4	2.1
Critical (25%)	2.2	1.8	2.0	2.4	1.8	2.1	1.9	1.7	1.9	2.3	2.2	2.2

Alternative 4 H2 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.7	**-0.7**	**-0.4**	**-0.4**	**-0.6**	**-0.9**	**-0.4**	**-0.2**	0.9	1.0	1.0	0.7
20%	1.5	**-0.6**	0.3	0.1	**-0.7**	**-0.5**	1.2	1.2	1.5	1.1	1.1	1.2
30%	1.4	0.8	0.8	**-0.2**	**-0.2**	**-0.3**	1.3	1.3	1.3	1.0	1.1	1.2
40%	1.4	1.1	1.1	0.3	**-0.7**	**-0.9**	1.3	1.4	1.3	1.0	1.1	1.2
50%	1.4	1.1	0.9	0.3	0.2	**-0.3**	1.1	1.2	1.3	0.9	1.1	1.4
60%	1.3	1.1	1.0	0.9	0.8	**-0.2**	1.3	1.3	1.3	0.9	1.1	1.4
70%	1.3	1.1	1.0	1.2	0.8	0.5	1.2	1.3	1.5	0.7	1.2	1.4
80%	1.3	1.2	0.9	1.2	0.9	0.8	1.2	1.3	1.5	0.7	1.3	1.3
90%	1.4	1.3	1.3	1.3	1.1	1.2	1.3	1.4	1.5	0.9	1.2	1.3
Long Term Full Simulation Period[a]	1.2	0.7	0.7	0.4	0.2	**0.0**	0.9	0.9	1.0	0.9	1.1	1.1
Water Year Types[b]												
Wet (31%)	0.6	**-0.2**	**-0.1**	**-0.3**	**-0.6**	**-1.0**	0.5	**-0.4**	**-0.2**	0.5	0.8	0.4
Above Normal (25%)	1.8	0.9	1.0	**-0.4**	**-0.1**	**-0.5**	0.6	0.9	1.0	0.9	1.0	0.8
Below Normal (6%)	0.7	1.1	1.2	0.6	**-0.6**	**-0.2**	1.0	0.7	1.2	0.2	0.6	0.9
Dry (13%)	1.3	0.7	0.8	0.7	0.6	0.1	1.1	1.4	1.5	1.1	1.1	1.3
Critical (25%)	1.5	1.2	1.1	1.1	0.9	0.9	1.3	1.5	1.6	1.1	1.5	1.7

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-30-2-7. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Minimum Elevation

Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	4.6	8.8	8.3	10.2	9.5	6.2	3.0	1.5	2.0	1.4	1.6
20%	0.9	3.5	2.5	6.7	9.3	7.5	2.2	1.2	0.8	1.6	1.3	1.0
30%	0.7	1.1	1.8	4.8	5.0	5.8	1.7	1.1	0.8	1.6	1.2	0.9
40%	0.6	0.8	1.5	2.5	4.0	4.2	1.2	1.0	0.7	1.6	1.2	0.9
50%	0.6	0.6	1.3	2.4	2.6	3.3	1.0	0.8	0.7	1.6	1.1	0.8
60%	0.6	0.6	1.0	1.8	1.2	3.1	0.8	0.6	0.7	1.5	1.0	0.7
70%	0.5	0.5	0.9	1.1	1.1	1.8	0.8	0.5	0.5	1.4	0.9	0.6
80%	0.4	0.4	0.8	0.9	1.1	1.1	0.7	0.3	0.4	1.2	0.8	0.5
90%	0.3	0.2	0.4	0.6	0.5	0.6	0.5	0.1	0.3	1.1	0.6	0.5
Long Term Full Simulation Period[a]	0.8	1.7	2.7	3.5	4.1	4.4	2.2	1.4	1.1	1.6	1.1	1.0
Water Year Types[b]												
Wet (31%)	1.4	4.2	7.5	6.4	8.8	8.8	5.3	3.4	2.6	2.1	1.3	1.9
Above Normal (25%)	0.4	0.7	1.6	8.1	7.8	6.7	2.9	1.5	0.9	1.3	1.1	0.9
Below Normal (6%)	0.9	0.6	0.5	2.4	4.0	3.4	1.2	1.2	0.8	1.6	1.1	0.7
Dry (13%)	0.6	1.2	1.3	1.3	1.6	3.0	1.1	0.7	0.7	1.5	1.3	0.8
Critical (25%)	0.6	0.6	0.9	1.3	0.9	1.2	0.6	0.2	0.3	1.3	0.7	0.5

Alternative 4 H3 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.2	3.7	8.1	7.8	9.5	8.6	5.4	2.6	2.4	3.5	2.5	3.1
20%	2.1	2.9	2.6	6.8	8.6	7.0	2.9	2.4	2.3	3.1	2.3	2.8
30%	2.0	2.0	2.6	4.7	4.7	5.0	2.3	2.2	2.1	2.9	2.3	2.4
40%	1.9	2.0	2.6	3.0	3.3	3.3	2.1	2.1	2.1	2.8	2.3	2.2
50%	1.9	1.9	2.4	2.8	2.7	3.0	2.1	2.0	2.1	2.7	2.2	2.2
60%	1.8	1.7	2.2	2.6	2.1	2.8	2.0	1.9	2.0	2.5	2.2	2.2
70%	1.8	1.6	2.1	2.2	2.0	2.2	2.0	1.8	1.9	2.4	2.1	2.1
80%	1.7	1.6	1.9	2.0	1.9	1.9	1.9	1.7	1.9	2.2	2.1	2.1
90%	1.7	1.6	1.8	1.8	1.6	1.8	1.8	1.5	1.9	2.0	1.9	2.1
Long Term Full Simulation Period[a]	1.9	2.4	3.5	3.9	4.3	4.3	2.9	2.1	2.1	2.7	2.2	2.4
Water Year Types[b]												
Wet (31%)	1.9	3.9	7.3	6.1	8.2	7.8	5.4	2.8	2.5	3.0	2.1	3.1
Above Normal (25%)	2.3	1.6	2.6	7.5	7.5	6.1	2.6	2.0	1.9	3.1	2.2	2.2
Below Normal (6%)	1.8	1.6	1.7	3.0	3.3	3.0	2.2	1.9	2.1	1.8	1.7	2.0
Dry (13%)	1.8	2.0	2.2	2.1	2.2	3.0	2.2	2.2	2.2	2.9	2.4	2.2
Critical (25%)	2.0	1.9	2.1	2.4	1.8	2.0	1.9	1.7	1.9	2.3	2.1	2.2

Alternative 4 H3 (LLT) minus Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.5	**-0.8**	**-0.7**	**-0.5**	**-0.7**	**-0.9**	**-0.8**	**-0.4**	1.0	1.5	1.0	1.5
20%	1.2	**-0.6**	0.1	0.1	**-0.7**	**-0.5**	0.7	1.2	1.5	1.5	1.1	1.8
30%	1.2	0.9	0.7	**-0.1**	**-0.3**	**-0.8**	0.5	1.1	1.3	1.3	1.1	1.4
40%	1.3	1.2	1.1	0.6	**-0.8**	**-0.9**	0.9	1.1	1.3	1.2	1.1	1.3
50%	1.3	1.3	1.1	0.4	0.2	**-0.4**	1.0	1.2	1.3	1.1	1.1	1.5
60%	1.2	1.1	1.1	0.9	0.9	**-0.2**	1.2	1.3	1.3	0.9	1.2	1.5
70%	1.3	1.2	1.2	1.1	0.8	0.4	1.2	1.3	1.5	1.0	1.2	1.5
80%	1.3	1.2	1.1	1.0	0.9	0.8	1.2	1.3	1.6	1.0	1.3	1.6
90%	1.4	1.3	1.4	1.1	1.1	1.2	1.3	1.4	1.6	0.9	1.2	1.6
Long Term Full Simulation Period[a]	1.1	0.7	0.7	0.4	0.2	**-0.1**	0.7	0.8	1.1	1.1	1.1	1.4
Water Year Types[b]												
Wet (31%)	0.5	**-0.3**	**-0.2**	**-0.3**	**-0.6**	**-1.0**	0.1	**-0.6**	**-0.1**	1.0	0.8	1.2
Above Normal (25%)	1.9	0.9	1.0	**-0.7**	**-0.3**	**-0.6**	**-0.3**	0.5	1.1	1.8	1.2	1.3
Below Normal (6%)	0.9	1.1	1.2	0.6	**-0.8**	**-0.4**	1.0	0.7	1.3	0.2	0.6	1.3
Dry (13%)	1.2	0.8	0.9	0.7	0.6	**-0.1**	1.1	1.5	1.4	1.3	1.1	1.5
Critical (25%)	1.4	1.3	1.2	1.1	1.0	0.9	1.3	1.5	1.6	1.0	1.4	1.6

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-30-2-8. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	4.6	8.8	8.3	10.2	9.5	6.2	3.0	1.5	2.0	1.4	1.6
20%	0.9	3.5	2.5	6.7	9.3	7.5	2.2	1.2	0.8	1.6	1.3	1.0
30%	0.7	1.1	1.8	4.8	5.0	5.8	1.7	1.1	0.8	1.6	1.2	0.9
40%	0.6	0.8	1.5	2.5	4.0	4.2	1.2	1.0	0.7	1.6	1.2	0.9
50%	0.6	0.6	1.3	2.4	2.6	3.3	1.0	0.8	0.7	1.6	1.1	0.8
60%	0.6	0.6	1.0	1.8	1.2	3.1	0.8	0.6	0.7	1.5	1.0	0.7
70%	0.5	0.5	0.9	1.1	1.1	1.8	0.8	0.5	0.5	1.4	0.9	0.6
80%	0.4	0.4	0.8	0.9	1.1	1.1	0.7	0.3	0.4	1.2	0.8	0.5
90%	0.3	0.2	0.4	0.6	0.5	0.6	0.5	0.1	0.3	1.1	0.6	0.5
Long Term Full Simulation Period[a]	0.8	1.7	2.7	3.5	4.1	4.4	2.2	1.4	1.1	1.6	1.1	1.0
Water Year Types[b]												
Wet (31%)	1.4	4.2	7.5	6.4	8.8	8.8	5.3	3.4	2.6	2.1	1.3	1.9
Above Normal (25%)	0.4	0.7	1.6	8.1	7.8	6.7	2.9	1.5	0.9	1.3	1.1	0.9
Below Normal (6%)	0.9	0.6	0.5	2.4	4.0	3.4	1.2	1.2	0.8	1.6	1.1	0.7
Dry (13%)	0.6	1.2	1.3	1.3	1.6	3.0	1.1	0.7	0.7	1.5	1.3	0.8
Critical (25%)	0.6	0.6	0.9	1.3	0.9	1.2	0.6	0.2	0.3	1.3	0.7	0.5

Alternative 4 H4 (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.3	3.6	8.1	7.9	9.5	8.6	5.8	2.7	2.4	2.9	2.4	3.1
20%	2.2	2.9	2.6	6.8	8.6	7.0	3.4	2.4	2.2	2.7	2.4	3.0
30%	2.1	2.0	2.6	4.6	4.8	5.4	3.0	2.4	2.1	2.6	2.3	2.3
40%	2.0	2.0	2.5	2.8	3.3	3.2	2.5	2.3	2.0	2.5	2.3	2.3
50%	2.0	1.9	2.2	2.6	2.7	3.0	2.2	2.0	2.0	2.4	2.2	2.2
60%	1.9	1.7	2.1	2.3	2.0	2.8	2.1	1.9	2.0	2.3	2.2	2.2
70%	1.9	1.7	1.9	2.0	2.0	2.2	2.0	1.8	1.9	2.2	2.1	2.2
80%	1.7	1.6	1.9	2.0	1.9	1.9	1.9	1.7	1.9	1.9	2.1	2.1
90%	1.7	1.5	1.7	1.7	1.6	1.8	1.8	1.5	1.8	1.9	2.0	2.1
Long Term Full Simulation Period[a]	2.0	2.4	3.4	3.9	4.3	4.3	3.2	2.2	2.1	2.4	2.2	2.4
Water Year Types[b]												
Wet (31%)	2.1	3.9	7.3	6.1	8.2	7.8	5.8	2.9	2.5	2.6	2.2	3.1
Above Normal (25%)	2.3	1.6	2.6	7.7	7.6	6.2	3.5	2.4	1.9	2.3	2.1	2.2
Below Normal (6%)	2.0	1.6	1.8	3.0	3.3	3.0	2.2	1.9	2.0	1.8	2.0	1.9
Dry (13%)	1.8	1.9	2.1	2.1	2.2	3.1	2.2	2.1	2.2	2.6	2.4	2.1
Critical (25%)	2.0	1.9	2.0	2.1	1.8	2.0	1.9	1.7	1.9	2.3	2.2	2.2

Alternative 4 H4 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.6	**-1.0**	**-0.7**	**-0.4**	**-0.7**	**-0.9**	**-0.4**	**-0.2**	0.9	0.9	1.0	1.4
20%	1.3	**-0.6**	0.1	0.1	**-0.7**	**-0.5**	1.2	1.2	1.5	1.1	1.1	2.0
30%	1.4	0.9	0.7	**-0.2**	**-0.3**	**-0.4**	1.3	1.3	1.3	1.0	1.1	1.4
40%	1.4	1.2	1.0	0.3	**-0.7**	**-0.9**	1.3	1.3	1.3	1.0	1.2	1.3
50%	1.4	1.3	0.9	0.2	0.2	**-0.4**	1.1	1.2	1.3	0.8	1.2	1.4
60%	1.3	1.1	1.0	0.6	0.8	**-0.2**	1.2	1.3	1.3	0.8	1.2	1.5
70%	1.4	1.2	1.0	0.9	0.8	0.4	1.2	1.3	1.5	0.8	1.2	1.5
80%	1.3	1.2	1.0	1.0	0.9	0.8	1.3	1.3	1.5	0.7	1.3	1.6
90%	1.4	1.3	1.3	1.1	1.1	1.2	1.3	1.4	1.5	0.9	1.3	1.6
Long Term Full Simulation Period[a]	1.2	0.7	0.7	0.3	0.2	**0.0**	0.9	0.9	1.0	0.8	1.1	1.4
Water Year Types[b]												
Wet (31%)	0.7	**-0.4**	**-0.2**	**-0.3**	**-0.6**	**-1.0**	0.5	**-0.4**	**-0.2**	0.5	0.9	1.2
Above Normal (25%)	1.9	0.9	0.9	**-0.5**	**-0.2**	**-0.5**	0.6	0.9	1.0	0.9	1.0	1.3
Below Normal (6%)	1.0	1.1	1.4	0.6	**-0.7**	**-0.4**	1.0	0.7	1.2	0.2	0.8	1.1
Dry (13%)	1.2	0.8	0.8	0.7	0.6	0.1	1.1	1.4	1.4	1.0	1.1	1.4
Critical (25%)	1.4	1.4	1.1	0.8	1.0	0.9	1.3	1.5	1.6	1.0	1.5	1.7

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-30-2-9. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	4.6	8.8	8.3	10.2	9.5	6.2	3.0	1.5	2.0	1.4	1.6
20%	0.9	3.5	2.5	6.7	9.3	7.5	2.2	1.2	0.8	1.6	1.3	1.0
30%	0.7	1.1	1.8	4.8	5.0	5.8	1.7	1.1	0.8	1.6	1.2	0.9
40%	0.6	0.8	1.5	2.5	4.0	4.2	1.2	1.0	0.7	1.6	1.2	0.9
50%	0.6	0.6	1.3	2.4	2.6	3.3	1.0	0.8	0.7	1.6	1.1	0.8
60%	0.6	0.6	1.0	1.8	1.2	3.1	0.8	0.6	0.7	1.5	1.0	0.7
70%	0.5	0.5	0.9	1.1	1.1	1.8	0.8	0.5	0.5	1.4	0.9	0.6
80%	0.4	0.4	0.8	0.9	1.1	1.1	0.7	0.3	0.4	1.2	0.8	0.5
90%	0.3	0.2	0.4	0.6	0.5	0.6	0.5	0.1	0.3	1.1	0.6	0.5
Long Term Full Simulation Period[a]	0.8	1.7	2.7	3.5	4.1	4.4	2.2	1.4	1.1	1.6	1.1	1.0
Water Year Types[b]												
Wet (31%)	1.4	4.2	7.5	6.4	8.8	8.8	5.3	3.4	2.6	2.1	1.3	1.9
Above Normal (25%)	0.4	0.7	1.6	8.1	7.8	6.7	2.9	1.5	0.9	1.3	1.1	0.9
Below Normal (6%)	0.9	0.6	0.5	2.4	4.0	3.4	1.2	1.2	0.8	1.6	1.1	0.7
Dry (13%)	0.6	1.2	1.3	1.3	1.6	3.0	1.1	0.7	0.7	1.5	1.3	0.8
Critical (25%)	0.6	0.6	0.9	1.3	0.9	1.2	0.6	0.2	0.3	1.3	0.7	0.5

Alternative 5 (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.5	4.1	8.8	8.4	10.1	9.3	6.2	2.9	2.6	3.3	2.6	3.5
20%	2.3	3.0	2.8	7.4	9.3	7.7	3.0	2.3	2.4	3.1	2.5	3.2
30%	2.2	2.2	2.8	5.0	5.4	5.6	2.4	2.1	2.3	2.9	2.5	2.5
40%	2.1	2.0	2.6	3.2	3.6	3.7	2.2	1.9	2.2	2.8	2.3	2.2
50%	2.0	2.0	2.4	3.0	3.0	3.5	2.2	1.9	2.2	2.7	2.2	2.2
60%	2.0	1.9	2.4	2.6	2.3	2.9	2.1	1.9	2.1	2.6	2.2	2.1
70%	1.9	1.9	2.1	2.4	2.2	2.4	1.9	1.8	2.0	2.5	2.1	2.1
80%	1.9	1.8	2.0	2.1	2.1	2.0	1.9	1.7	1.9	2.5	2.0	2.0
90%	1.8	1.7	1.8	1.9	1.7	1.9	1.8	1.5	1.9	2.0	2.0	2.0
Long Term Full Simulation Period[a]	2.1	2.6	3.6	4.2	4.7	4.7	3.1	2.2	2.3	2.7	2.3	2.5
Water Year Types[b]												
Wet (31%)	2.2	4.4	7.8	6.7	8.9	8.4	5.8	3.1	2.9	2.9	2.5	3.5
Above Normal (25%)	2.0	1.9	2.7	8.2	8.2	6.7	3.0	2.0	2.3	2.9	2.3	2.5
Below Normal (6%)	2.0	1.9	2.1	3.2	3.6	3.4	2.2	1.9	2.4	2.5	2.0	1.9
Dry (13%)	2.0	2.1	2.3	2.3	2.5	3.3	2.2	2.1	2.2	2.8	2.4	2.0
Critical (25%)	2.2	1.9	2.1	2.4	2.0	2.2	1.9	1.6	1.9	2.4	2.1	2.1

Alternative 5 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.7	**-0.5**	**0.0**	0.1	**-0.1**	**-0.2**	**0.0**	**-0.1**	1.2	1.3	1.1	1.9
20%	1.4	**-0.4**	0.3	0.7	**0.0**	0.2	0.8	1.1	1.6	1.4	1.3	2.2
30%	1.5	1.1	0.9	0.2	0.4	**-0.1**	0.7	1.0	1.5	1.3	1.3	1.5
40%	1.5	1.3	1.2	0.7	**-0.4**	**-0.5**	1.0	1.0	1.5	1.3	1.1	1.3
50%	1.5	1.4	1.1	0.6	0.5	0.2	1.1	1.1	1.5	1.2	1.2	1.4
60%	1.5	1.4	1.3	0.9	1.1	**-0.1**	1.3	1.3	1.5	1.0	1.2	1.4
70%	1.5	1.4	1.2	1.3	1.0	0.6	1.1	1.3	1.5	1.2	1.2	1.4
80%	1.5	1.4	1.1	1.2	1.0	1.0	1.2	1.3	1.6	1.2	1.3	1.5
90%	1.6	1.5	1.4	1.2	1.2	1.3	1.3	1.4	1.6	1.0	1.4	1.5
Long Term Full Simulation Period[a]	1.3	0.9	0.9	0.7	0.6	0.3	0.9	0.8	1.2	1.1	1.2	1.5
Water Year Types[b]												
Wet (31%)	0.8	0.1	0.3	0.3	0.1	**-0.3**	0.5	**-0.2**	0.3	0.9	1.2	1.6
Above Normal (25%)	1.6	1.1	1.1	0.1	0.4	0.0	0.1	0.5	1.4	1.6	1.2	1.5
Below Normal (6%)	1.1	1.4	1.6	0.8	**-0.4**	**0.0**	1.0	0.7	1.6	1.0	0.9	1.2
Dry (13%)	1.4	0.9	1.0	0.9	0.8	0.3	1.1	1.4	1.5	1.2	1.1	1.3
Critical (25%)	1.6	1.4	1.2	1.1	1.1	1.0	1.3	1.4	1.6	1.1	1.4	1.6

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-30-2-10. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	4.6	8.8	8.3	10.2	9.5	6.2	3.0	1.5	2.0	1.4	1.6
20%	0.9	3.5	2.5	6.7	9.3	7.5	2.2	1.2	0.8	1.6	1.3	1.0
30%	0.7	1.1	1.8	4.8	5.0	5.8	1.7	1.1	0.8	1.6	1.2	0.9
40%	0.6	0.8	1.5	2.5	4.0	4.2	1.2	1.0	0.7	1.6	1.2	0.9
50%	0.6	0.6	1.3	2.4	2.6	3.3	1.0	0.8	0.7	1.6	1.1	0.8
60%	0.6	0.6	1.0	1.8	1.2	3.1	0.8	0.6	0.7	1.5	1.0	0.7
70%	0.5	0.5	0.9	1.1	1.1	1.8	0.8	0.5	0.5	1.4	0.9	0.6
80%	0.4	0.4	0.8	0.9	1.1	1.1	0.7	0.3	0.4	1.2	0.8	0.5
90%	0.3	0.2	0.4	0.6	0.5	0.6	0.5	0.1	0.3	1.1	0.6	0.5
Long Term Full Simulation Period[a]	0.8	1.7	2.7	3.5	4.1	4.4	2.2	1.4	1.1	1.6	1.1	1.0
Water Year Types[b]												
Wet (31%)	1.4	4.2	7.5	6.4	8.8	8.8	5.3	3.4	2.6	2.1	1.3	1.9
Above Normal (25%)	0.4	0.7	1.6	8.1	7.8	6.7	2.9	1.5	0.9	1.3	1.1	0.9
Below Normal (6%)	0.9	0.6	0.5	2.4	4.0	3.4	1.2	1.2	0.8	1.6	1.1	0.7
Dry (13%)	0.6	1.2	1.3	1.3	1.6	3.0	1.1	0.7	0.7	1.5	1.3	0.8
Critical (25%)	0.6	0.6	0.9	1.3	0.9	1.2	0.6	0.2	0.3	1.3	0.7	0.5

Alternative 6A,6B,6C (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.8	3.5	7.9	7.1	8.8	8.0	5.0	2.3	2.2	2.1	2.0	2.3
20%	1.7	2.7	2.6	6.2	8.0	6.5	2.8	2.1	2.2	2.0	2.0	2.2
30%	1.7	2.0	2.5	4.3	4.4	4.6	2.2	2.1	2.1	1.8	1.9	1.9
40%	1.6	1.7	2.2	2.7	3.2	3.0	2.1	2.1	2.0	1.8	1.9	1.8
50%	1.6	1.6	2.1	2.5	2.6	2.8	2.0	1.9	2.0	1.7	1.8	1.8
60%	1.5	1.6	2.0	2.2	2.4	2.6	2.0	1.8	2.0	1.7	1.7	1.7
70%	1.5	1.6	1.8	2.0	1.9	2.2	1.9	1.8	1.9	1.6	1.7	1.7
80%	1.4	1.4	1.7	1.8	1.9	1.8	1.9	1.7	1.9	1.6	1.6	1.6
90%	1.4	1.4	1.6	1.7	1.6	1.7	1.8	1.5	1.9	1.6	1.6	1.6
Long Term Full Simulation Period[a]	1.6	2.1	3.3	3.6	4.1	4.0	2.8	2.0	2.1	1.8	1.8	1.9
Water Year Types[b]												
Wet (31%)	1.7	3.6	7.1	5.6	7.7	7.3	5.0	2.6	2.3	2.1	1.9	2.4
Above Normal (25%)	1.6	1.4	2.4	7.0	6.9	5.6	2.5	2.1	2.0	1.7	1.7	1.6
Below Normal (6%)	1.6	1.4	1.7	2.9	3.2	2.7	2.1	1.9	2.2	1.5	1.5	1.5
Dry (13%)	1.5	1.8	2.0	2.0	2.1	2.9	2.2	2.0	2.1	1.6	1.7	1.7
Critical (25%)	1.6	1.7	1.9	1.9	1.9	1.9	1.8	1.6	1.9	1.8	1.9	1.8

Alternative 6A,6B,6C (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.0	**-1.0**	**-0.9**	**-1.2**	**-1.4**	**-1.5**	**-1.2**	**-0.7**	0.8	0.2	0.5	0.7
20%	0.8	**-0.8**	0.1	**-0.4**	**-1.3**	**-1.0**	0.6	0.9	1.4	0.3	0.7	1.2
30%	1.0	0.8	0.6	**-0.5**	**-0.6**	**-1.1**	0.5	1.0	1.4	0.2	0.7	1.0
40%	1.1	1.0	0.7	0.2	**-0.9**	**-1.2**	1.0	1.1	1.3	0.2	0.7	0.9
50%	1.0	1.0	0.8	0.1	0.0	**-0.5**	1.0	1.1	1.3	0.1	0.7	1.0
60%	0.9	1.0	0.9	0.4	1.3	**-0.4**	1.2	1.2	1.3	0.1	0.8	1.0
70%	1.0	1.1	1.0	0.9	0.8	0.3	1.1	1.3	1.4	0.3	0.8	1.0
80%	1.0	1.0	0.9	0.9	0.8	0.7	1.2	1.3	1.5	0.4	0.9	1.1
90%	1.1	1.2	1.2	1.0	1.1	1.1	1.3	1.4	1.5	0.5	1.0	1.1
Long Term Full Simulation Period[a]	0.8	0.5	0.6	0.1	0.0	**-0.4**	0.6	0.7	1.0	0.2	0.7	0.9
Water Year Types[b]												
Wet (31%)	0.3	**-0.6**	**-0.5**	**-0.8**	**-1.1**	**-1.5**	**-0.2**	**-0.7**	**-0.3**	0.1	0.6	0.5
Above Normal (25%)	1.1	0.7	0.8	**-1.1**	**-0.9**	**-1.1**	**-0.5**	0.6	1.1	0.4	0.6	0.7
Below Normal (6%)	0.7	0.9	1.2	0.4	**-0.9**	**-0.7**	1.0	0.7	1.5	**-0.1**	0.4	0.7
Dry (13%)	1.0	0.6	0.8	0.7	0.4	**-0.2**	1.1	1.2	1.4	0.1	0.5	0.9
Critical (25%)	1.0	1.1	1.0	0.6	1.0	0.7	1.2	1.4	1.5	0.5	1.2	1.3

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-30-2-11. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	4.6	8.8	8.3	10.2	9.5	6.2	3.0	1.5	2.0	1.4	1.6
20%	0.9	3.5	2.5	6.7	9.3	7.5	2.2	1.2	0.8	1.6	1.3	1.0
30%	0.7	1.1	1.8	4.8	5.0	5.8	1.7	1.1	0.8	1.6	1.2	0.9
40%	0.6	0.8	1.5	2.5	4.0	4.2	1.2	1.0	0.7	1.6	1.2	0.9
50%	0.6	0.6	1.3	2.4	2.6	3.3	1.0	0.8	0.7	1.6	1.1	0.8
60%	0.6	0.6	1.0	1.8	1.2	3.1	0.8	0.6	0.7	1.5	1.0	0.7
70%	0.5	0.5	0.9	1.1	1.1	1.8	0.8	0.5	0.5	1.4	0.9	0.6
80%	0.4	0.4	0.8	0.9	1.1	1.1	0.7	0.3	0.4	1.2	0.8	0.5
90%	0.3	0.2	0.4	0.6	0.5	0.6	0.5	0.1	0.3	1.1	0.6	0.5
Long Term Full Simulation Period[a]	0.8	1.7	2.7	3.5	4.1	4.4	2.2	1.4	1.1	1.6	1.1	1.0
Water Year Types[b]												
Wet (31%)	1.4	4.2	7.5	6.4	8.8	8.8	5.3	3.4	2.6	2.1	1.3	1.9
Above Normal (25%)	0.4	0.7	1.6	8.1	7.8	6.7	2.9	1.5	0.9	1.3	1.1	0.9
Below Normal (6%)	0.9	0.6	0.5	2.4	4.0	3.4	1.2	1.2	0.8	1.6	1.1	0.7
Dry (13%)	0.6	1.2	1.3	1.3	1.6	3.0	1.1	0.7	0.7	1.5	1.3	0.8
Critical (25%)	0.6	0.6	0.9	1.3	0.9	1.2	0.6	0.2	0.3	1.3	0.7	0.5

Alternative 7 (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.0	3.7	8.4	7.6	9.4	8.6	5.5	2.6	2.2	3.2	2.6	3.1
20%	1.8	2.8	2.6	6.8	8.5	6.9	2.9	2.1	2.2	2.9	2.5	2.9
30%	1.8	2.0	2.6	4.5	4.7	4.8	2.3	2.1	2.1	2.9	2.4	2.2
40%	1.7	1.8	2.3	2.8	3.2	3.2	2.1	2.0	2.1	2.9	2.4	2.2
50%	1.7	1.7	2.2	2.7	2.8	3.0	2.1	1.9	2.1	2.7	2.4	2.1
60%	1.7	1.6	2.0	2.4	2.6	2.8	2.0	1.8	2.1	2.6	2.3	2.1
70%	1.6	1.6	1.9	2.1	2.0	2.4	1.9	1.8	2.0	2.5	2.3	2.1
80%	1.6	1.6	1.8	1.9	2.0	1.9	1.9	1.7	2.0	2.3	2.2	2.1
90%	1.6	1.5	1.7	1.7	1.6	1.7	1.9	1.6	1.9	2.2	2.2	2.0
Long Term Full Simulation Period[a]	1.7	2.3	3.4	3.8	4.4	4.3	3.0	2.1	2.2	2.7	2.4	2.3
Water Year Types[b]												
Wet (31%)	1.9	3.9	7.5	6.0	8.2	7.7	5.4	2.8	2.5	3.0	2.5	3.1
Above Normal (25%)	1.7	1.7	2.5	7.6	7.4	5.9	2.6	2.0	1.9	2.8	2.2	2.2
Below Normal (6%)	1.7	1.6	1.7	3.0	3.2	3.1	2.3	1.9	2.2	2.6	2.4	2.2
Dry (13%)	1.7	1.9	2.1	2.1	2.3	3.1	2.2	2.0	2.1	3.0	2.5	2.0
Critical (25%)	1.8	1.7	1.9	2.1	2.0	2.0	1.8	1.7	2.0	2.3	2.3	2.1

Alternative 7 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.3	**-0.8**	**-0.4**	**-0.6**	**-0.8**	**-0.9**	**-0.7**	**-0.4**	0.8	1.3	1.2	1.5
20%	0.9	**-0.7**	0.1	0.1	**-0.8**	**-0.6**	0.7	0.9	1.4	1.3	1.2	1.9
30%	1.0	0.9	0.8	**-0.3**	**-0.4**	**-0.9**	0.6	1.0	1.4	1.3	1.2	1.3
40%	1.2	1.1	0.8	0.4	**-0.8**	**-1.0**	1.0	1.0	1.4	1.3	1.2	1.3
50%	1.1	1.2	1.0	0.3	0.3	**-0.3**	1.0	1.1	1.4	1.1	1.3	1.4
60%	1.1	1.1	1.0	0.6	1.4	**-0.2**	1.2	1.2	1.4	1.1	1.4	1.4
70%	1.2	1.1	1.0	1.0	0.9	0.5	1.1	1.3	1.6	1.2	1.4	1.4
80%	1.2	1.2	1.0	0.9	0.9	0.9	1.2	1.4	1.6	1.1	1.4	1.5
90%	1.3	1.3	1.3	1.1	1.1	1.2	1.4	1.5	1.6	1.1	1.6	1.5
Long Term Full Simulation Period[a]	0.9	0.7	0.7	0.3	0.3	**-0.1**	0.7	0.8	1.1	1.1	1.3	1.3
Water Year Types[b]												
Wet (31%)	0.5	**-0.3**	**0.0**	**-0.4**	**-0.6**	**-1.0**	0.1	**-0.6**	**-0.1**	0.9	1.2	1.2
Above Normal (25%)	1.2	1.0	0.8	**-0.5**	**-0.3**	**-0.8**	**-0.3**	0.5	1.1	1.4	1.1	1.2
Below Normal (6%)	0.8	1.1	1.3	0.6	**-0.8**	**-0.3**	1.1	0.7	1.4	1.0	1.2	1.5
Dry (13%)	1.1	0.7	0.8	0.8	0.6	0.0	1.1	1.3	1.4	1.4	1.2	1.2
Critical (25%)	1.1	1.2	1.0	0.8	1.1	0.8	1.2	1.5	1.7	1.0	1.6	1.6

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-30-2-12. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	4.6	8.8	8.3	10.2	9.5	6.2	3.0	1.5	2.0	1.4	1.6
20%	0.9	3.5	2.5	6.7	9.3	7.5	2.2	1.2	0.8	1.6	1.3	1.0
30%	0.7	1.1	1.8	4.8	5.0	5.8	1.7	1.1	0.8	1.6	1.2	0.9
40%	0.6	0.8	1.5	2.5	4.0	4.2	1.2	1.0	0.7	1.6	1.2	0.9
50%	0.6	0.6	1.3	2.4	2.6	3.3	1.0	0.8	0.7	1.6	1.1	0.8
60%	0.6	0.6	1.0	1.8	1.2	3.1	0.8	0.6	0.7	1.5	1.0	0.7
70%	0.5	0.5	0.9	1.1	1.1	1.8	0.8	0.5	0.5	1.4	0.9	0.6
80%	0.4	0.4	0.8	0.9	1.1	1.1	0.7	0.3	0.4	1.2	0.8	0.5
90%	0.3	0.2	0.4	0.6	0.5	0.6	0.5	0.1	0.3	1.1	0.6	0.5
Long Term Full Simulation Period[a]	0.8	1.7	2.7	3.5	4.1	4.4	2.2	1.4	1.1	1.6	1.1	1.0
Water Year Types[b]												
Wet (31%)	1.4	4.2	7.5	6.4	8.8	8.8	5.3	3.4	2.6	2.1	1.3	1.9
Above Normal (25%)	0.4	0.7	1.6	8.1	7.8	6.7	2.9	1.5	0.9	1.3	1.1	0.9
Below Normal (6%)	0.9	0.6	0.5	2.4	4.0	3.4	1.2	1.2	0.8	1.6	1.1	0.7
Dry (13%)	0.6	1.2	1.3	1.3	1.6	3.0	1.1	0.7	0.7	1.5	1.3	0.8
Critical (25%)	0.6	0.6	0.9	1.3	0.9	1.2	0.6	0.2	0.3	1.3	0.7	0.5

Alternative 8 (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.0	4.0	8.5	7.7	9.3	8.6	5.8	3.0	2.2	2.6	2.4	3.1
20%	2.0	2.9	2.7	6.8	8.5	6.8	3.4	2.3	2.1	2.4	2.4	2.9
30%	1.9	2.1	2.6	4.6	5.2	5.4	2.5	2.2	2.1	2.3	2.4	2.3
40%	1.9	1.9	2.3	3.2	3.2	3.5	2.5	2.0	2.1	2.3	2.3	2.1
50%	1.8	1.9	2.2	2.9	3.0	3.3	2.4	2.0	2.1	2.3	2.3	2.1
60%	1.8	1.7	2.0	2.5	2.8	2.9	2.3	2.0	2.1	2.2	2.3	2.1
70%	1.7	1.7	1.9	2.1	2.2	2.6	2.2	1.9	2.1	2.2	2.2	2.0
80%	1.6	1.6	1.8	1.8	2.0	2.2	2.1	1.9	2.0	2.1	2.2	2.0
90%	1.6	1.6	1.7	1.8	1.7	2.0	2.0	1.7	1.9	2.1	2.1	2.0
Long Term Full Simulation Period[a]	1.8	2.4	3.4	3.9	4.5	4.5	3.2	2.3	2.2	2.3	2.3	2.3
Water Year Types[b]												
Wet (31%)	1.9	4.1	7.5	6.2	8.1	7.7	5.5	3.2	2.6	2.5	2.4	3.1
Above Normal (25%)	1.7	1.6	2.5	7.8	7.5	6.0	3.0	2.2	1.9	2.2	2.3	2.3
Below Normal (6%)	1.9	1.7	1.7	3.2	4.0	3.3	2.5	2.3	2.1	2.1	2.2	2.0
Dry (13%)	1.8	2.0	2.1	2.2	2.5	3.5	2.6	2.1	2.1	2.3	2.3	2.0
Critical (25%)	1.8	1.9	1.9	2.1	2.0	2.2	2.0	1.8	2.0	2.2	2.2	2.1

Alternative 8 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.3	**-0.5**	**-0.4**	**-0.6**	**-0.9**	**-0.9**	**-0.4**	**0.0**	0.8	0.7	1.0	1.5
20%	1.1	**-0.6**	0.2	0.1	**-0.8**	**-0.6**	1.2	1.1	1.4	0.7	1.1	1.9
30%	1.2	0.9	0.8	**-0.2**	0.2	**-0.4**	0.8	1.1	1.3	0.7	1.2	1.4
40%	1.3	1.2	0.8	0.8	**-0.8**	**-0.7**	1.3	1.1	1.4	0.7	1.2	1.2
50%	1.2	1.3	1.0	0.5	0.5	**0.0**	1.3	1.2	1.4	0.7	1.2	1.3
60%	1.2	1.1	1.0	0.8	1.6	**-0.1**	1.5	1.4	1.4	0.7	1.3	1.3
70%	1.3	1.2	1.0	1.0	1.1	0.7	1.3	1.4	1.6	0.8	1.3	1.4
80%	1.2	1.2	1.0	0.9	0.9	1.1	1.4	1.5	1.7	0.9	1.4	1.5
90%	1.4	1.3	1.3	1.1	1.2	1.5	1.5	1.6	1.6	1.0	1.5	1.5
Long Term Full Simulation Period[a]	1.0	0.8	0.7	0.4	0.4	0.1	1.0	1.0	1.1	0.7	1.2	1.3
Water Year Types[b]												
Wet (31%)	0.5	**-0.1**	**0.0**	**-0.2**	**-0.7**	**-1.0**	0.2	**-0.1**	0.0	0.5	1.2	1.2
Above Normal (25%)	1.3	0.9	0.8	**-0.3**	**-0.3**	**-0.7**	0.0	0.7	1.1	0.9	1.3	1.3
Below Normal (6%)	0.9	1.1	1.3	0.8	**0.0**	**-0.1**	1.3	1.1	1.4	0.5	1.1	1.3
Dry (13%)	1.2	0.8	0.8	0.9	0.8	0.5	1.5	1.4	1.4	0.7	1.0	1.2
Critical (25%)	1.2	1.3	1.0	0.8	1.2	1.1	1.4	1.6	1.7	1.0	1.5	1.6

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-30-2-13. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	4.6	8.8	8.3	10.2	9.5	6.2	3.0	1.5	2.0	1.4	1.6
20%	0.9	3.5	2.5	6.7	9.3	7.5	2.2	1.2	0.8	1.6	1.3	1.0
30%	0.7	1.1	1.8	4.8	5.0	5.8	1.7	1.1	0.8	1.6	1.2	0.9
40%	0.6	0.8	1.5	2.5	4.0	4.2	1.2	1.0	0.7	1.6	1.2	0.9
50%	0.6	0.6	1.3	2.4	2.6	3.3	1.0	0.8	0.7	1.6	1.1	0.8
60%	0.6	0.6	1.0	1.8	1.2	3.1	0.8	0.6	0.7	1.5	1.0	0.7
70%	0.5	0.5	0.9	1.1	1.1	1.8	0.8	0.5	0.5	1.4	0.9	0.6
80%	0.4	0.4	0.8	0.9	1.1	1.1	0.7	0.3	0.4	1.2	0.8	0.5
90%	0.3	0.2	0.4	0.6	0.5	0.6	0.5	0.1	0.3	1.1	0.6	0.5
Long Term Full Simulation Period[a]	0.8	1.7	2.7	3.5	4.1	4.4	2.2	1.4	1.1	1.6	1.1	1.0
Water Year Types[b]												
Wet (31%)	1.4	4.2	7.5	6.4	8.8	8.8	5.3	3.4	2.6	2.1	1.3	1.9
Above Normal (25%)	0.4	0.7	1.6	8.1	7.8	6.7	2.9	1.5	0.9	1.3	1.1	0.9
Below Normal (6%)	0.9	0.6	0.5	2.4	4.0	3.4	1.2	1.2	0.8	1.6	1.1	0.7
Dry (13%)	0.6	1.2	1.3	1.3	1.6	3.0	1.1	0.7	0.7	1.5	1.3	0.8
Critical (25%)	0.6	0.6	0.9	1.3	0.9	1.2	0.6	0.2	0.3	1.3	0.7	0.5

Alternative 9 (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.5	4.3	9.3	9.1	10.8	10.0	6.5	3.2	2.7	3.1	2.7	4.2
20%	2.4	3.3	2.9	8.0	9.9	8.3	3.1	2.5	2.3	3.0	2.7	3.6
30%	2.3	2.6	2.8	5.3	5.9	6.0	2.6	2.4	2.3	3.0	2.7	2.9
40%	2.2	2.2	2.6	3.3	4.1	4.1	2.4	2.3	2.3	3.0	2.6	2.3
50%	2.0	2.1	2.5	3.2	3.2	3.8	2.3	2.2	2.3	2.9	2.6	2.2
60%	2.0	1.9	2.4	2.7	2.4	3.1	2.2	2.1	2.2	2.7	2.4	2.2
70%	2.0	1.9	2.2	2.3	2.2	2.6	2.1	2.0	2.1	2.6	2.3	2.1
80%	1.9	1.8	2.2	2.1	2.2	2.1	2.1	1.9	2.1	2.3	2.3	2.0
90%	1.8	1.7	2.0	2.0	1.9	2.0	2.0	1.7	2.0	2.3	2.1	2.0
Long Term Full Simulation Period[a]	2.1	2.7	3.8	4.5	5.0	5.0	3.3	2.5	2.4	2.8	2.5	2.7
Water Year Types[b]												
Wet (31%)	2.5	4.6	8.3	7.2	9.5	9.0	6.1	3.4	3.0	3.0	2.7	4.1
Above Normal (25%)	1.9	2.0	2.7	8.9	8.8	7.2	3.3	2.3	2.2	3.1	2.7	2.9
Below Normal (6%)	2.3	2.4	2.2	3.3	4.1	3.7	2.4	2.0	2.3	2.6	2.4	2.3
Dry (13%)	2.1	2.3	2.4	2.4	2.6	3.5	2.4	2.4	2.3	2.8	2.5	2.1
Critical (25%)	2.0	2.1	2.2	2.4	2.1	2.3	2.0	1.9	2.0	2.5	2.2	2.1

Alternative 9 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.7	**-0.2**	0.4	0.8	0.6	0.5	0.3	0.2	1.2	1.2	1.3	2.6
20%	1.5	**-0.2**	0.4	1.4	0.7	0.8	0.9	1.3	1.6	1.4	1.4	2.6
30%	1.5	1.5	1.0	0.5	0.9	0.3	0.9	1.3	1.5	1.4	1.5	2.0
40%	1.6	1.5	1.1	0.9	0.0	**-0.1**	1.2	1.3	1.6	1.4	1.5	1.4
50%	1.5	1.5	1.2	0.8	0.6	0.5	1.2	1.4	1.6	1.3	1.5	1.4
60%	1.5	1.4	1.4	1.0	1.2	0.1	1.3	1.5	1.5	1.1	1.5	1.4
70%	1.5	1.4	1.3	1.2	1.1	0.7	1.3	1.5	1.6	1.2	1.4	1.4
80%	1.5	1.4	1.3	1.2	1.1	1.0	1.4	1.5	1.7	1.1	1.5	1.5
90%	1.5	1.5	1.6	1.3	1.4	1.4	1.5	1.6	1.7	1.2	1.4	1.5
Long Term Full Simulation Period[a]	1.3	1.1	1.1	1.0	0.9	0.6	1.1	1.1	1.3	1.2	1.4	1.7
Water Year Types[b]												
Wet (31%)	1.1	0.3	0.8	0.8	0.7	0.3	0.9	0.1	0.4	1.0	1.4	2.2
Above Normal (25%)	1.4	1.2	1.1	0.7	1.0	0.5	0.4	0.8	1.4	1.8	1.6	2.0
Below Normal (6%)	1.4	1.8	1.7	0.9	0.0	0.3	1.2	0.9	1.6	1.0	1.2	1.6
Dry (13%)	1.5	1.1	1.1	1.1	1.0	0.5	1.2	1.7	1.5	1.3	1.2	1.3
Critical (25%)	1.4	1.5	1.3	1.1	1.2	1.1	1.4	1.6	1.7	1.2	1.4	1.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-30-2-14. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.2	4.2	9.4	9.4	10.8	10.0	6.8	3.0	2.2	3.3	2.5	3.9
20%	2.1	3.2	2.9	8.3	10.1	8.6	3.2	2.2	2.0	3.2	2.4	3.2
30%	1.9	2.4	2.8	5.7	6.3	6.6	2.5	2.1	1.9	3.1	2.4	2.6
40%	1.9	2.1	2.5	3.5	4.2	4.7	2.2	1.9	1.8	2.9	2.3	1.9
50%	1.8	1.9	2.3	3.3	3.3	4.0	2.0	1.7	1.8	2.8	2.1	1.9
60%	1.8	1.6	2.1	2.7	2.3	3.3	1.9	1.7	1.7	2.5	2.0	1.8
70%	1.8	1.6	1.9	2.4	2.0	2.5	1.9	1.6	1.7	2.4	1.9	1.7
80%	1.7	1.5	1.7	2.1	2.0	1.9	1.8	1.5	1.5	2.3	1.8	1.7
90%	1.5	1.4	1.5	1.8	1.6	1.7	1.6	1.3	1.5	2.0	1.7	1.6
Long Term												
Full Simulation Period[a]	1.9	2.5	3.6	4.5	5.0	5.1	3.2	2.1	1.9	2.7	2.1	2.3
Water Year Types[b]												
Wet (31%)	2.2	4.4	8.3	7.5	9.6	9.2	6.1	3.2	2.6	2.9	2.4	3.8
Above Normal (25%)	1.7	1.7	2.7	9.0	9.0	7.7	3.5	2.1	1.9	3.1	2.4	2.6
Below Normal (6%)	2.1	2.1	1.9	3.5	4.2	3.9	2.2	1.8	2.0	2.3	2.1	1.9
Dry (13%)	1.8	2.1	2.2	2.3	2.6	3.7	2.1	1.9	1.8	2.8	2.2	1.8
Critical (25%)	1.8	1.7	1.8	2.5	1.8	2.2	1.7	1.4	1.5	2.3	1.7	1.7

Alternative 1A,1B,1C (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.1	3.1	7.7	7.3	9.0	8.1	5.1	2.4	2.5	3.1	2.4	2.3
20%	2.7	2.9	2.5	6.2	8.0	6.5	2.7	2.3	2.4	3.1	2.4	2.2
30%	2.4	2.3	2.5	4.6	4.4	4.9	2.4	2.1	2.3	2.9	2.3	2.2
40%	2.3	2.0	2.4	2.9	2.9	3.0	2.2	2.0	2.1	2.7	2.3	2.1
50%	2.0	1.8	2.4	2.5	2.5	2.8	2.2	2.0	2.1	2.6	2.1	2.1
60%	1.9	1.7	2.2	2.3	2.0	2.6	2.1	1.9	2.1	2.4	2.1	2.1
70%	1.8	1.6	2.0	2.1	1.9	2.2	2.0	1.9	2.0	2.3	2.0	1.9
80%	1.8	1.5	1.9	1.9	1.9	1.9	1.9	1.7	2.0	2.2	1.9	1.8
90%	1.8	1.4	1.8	1.8	1.9	1.7	1.9	1.5	1.9	2.1	1.9	1.7
Long Term												
Full Simulation Period[a]	2.3	2.2	3.3	3.7	4.1	4.1	2.9	2.1	2.2	2.6	2.2	2.0
Water Year Types[b]												
Wet (31%)	2.0	3.8	7.0	5.7	7.8	7.4	5.2	2.7	2.5	2.9	2.1	2.0
Above Normal (25%)	2.3	1.5	2.5	6.9	7.2	5.8	2.5	2.1	2.1	2.6	2.0	1.6
Below Normal (6%)	3.2	1.5	1.9	2.9	2.9	2.7	2.1	1.9	2.3	2.1	1.8	1.8
Dry (13%)	1.9	1.8	2.2	2.4	2.1	3.0	2.3	2.1	2.2	2.9	2.5	2.1
Critical (25%)	2.6	1.8	2.0	2.0	1.9	2.0	1.9	1.7	1.9	2.3	2.1	2.2

Alternative 1A,1B,1C (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.9	**-1.1**	**-1.7**	**-2.1**	**-1.8**	**-1.8**	**-1.7**	**-0.6**	0.3	**-0.2**	**-0.1**	**-1.6**
20%	0.7	**-0.3**	**-0.4**	**-2.1**	**-2.1**	**-2.1**	**-0.5**	0.0	0.3	**-0.2**	**-0.1**	**-1.0**
30%	0.5	**-0.1**	**-0.3**	**-1.1**	**-1.9**	**-1.7**	**-0.1**	0.1	0.4	**-0.2**	**-0.1**	**-0.4**
40%	0.4	**-0.1**	**0.0**	**-0.6**	**-1.3**	**-1.6**	0.1	0.1	0.3	**-0.2**	**-0.1**	0.2
50%	0.2	**-0.1**	0.0	**-0.8**	**-0.8**	**-1.2**	0.2	0.3	0.3	**-0.2**	**-0.1**	0.2
60%	0.1	0.1	0.1	**-0.4**	**-0.3**	**-0.7**	0.2	0.3	0.4	**-0.1**	0.0	0.2
70%	0.1	0.0	0.0	**-0.3**	**-0.1**	**-0.3**	0.2	0.3	0.3	**-0.1**	0.1	0.2
80%	0.1	**0.0**	0.2	**-0.2**	**0.0**	0.0	0.2	0.2	0.4	**-0.1**	0.1	0.2
90%	0.3	0.0	0.3	**0.0**	0.3	0.0	0.2	0.3	0.4	0.1	0.2	0.1
Long Term												
Full Simulation Period[a]	0.4	**-0.3**	**-0.3**	**-0.9**	**-0.9**	**-1.0**	**-0.3**	0.0	0.2	**-0.1**	0.0	**-0.3**
Water Year Types[b]												
Wet (31%)	**-0.2**	**-0.6**	**-1.3**	**-1.7**	**-1.8**	**-1.7**	**-0.9**	**-0.5**	**-0.1**	**-0.1**	**-0.3**	**-1.7**
Above Normal (25%)	0.7	**-0.2**	**-0.2**	**-2.0**	**-1.8**	**-1.8**	**-0.9**	**0.0**	0.2	**-0.4**	**-0.4**	**-1.0**
Below Normal (6%)	1.2	**-0.6**	**0.0**	**-0.6**	**-1.3**	**-1.2**	**-0.1**	0.2	0.2	**-0.3**	**-0.3**	**-0.1**
Dry (13%)	0.1	**-0.3**	0.0	0.1	**-0.5**	**-0.7**	0.1	0.2	0.4	0.0	0.3	0.3
Critical (25%)	0.8	0.1	0.1	**-0.5**	0.1	**-0.2**	0.2	0.2	0.4	0.1	0.4	0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-30-2-15. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.2	4.2	9.4	9.4	10.8	10.0	6.8	3.0	2.2	3.3	2.5	3.9
20%	2.1	3.2	2.9	8.3	10.1	8.6	3.2	2.2	2.0	3.2	2.4	3.2
30%	1.9	2.4	2.8	5.7	6.3	6.6	2.5	2.1	1.9	3.1	2.4	2.6
40%	1.9	2.1	2.5	3.5	4.2	4.7	2.2	1.9	1.8	2.9	2.3	1.9
50%	1.8	1.9	2.3	3.3	3.3	4.0	2.0	1.7	1.8	2.8	2.1	1.9
60%	1.8	1.6	2.1	2.7	2.3	3.3	1.9	1.7	1.7	2.5	2.0	1.8
70%	1.8	1.6	1.9	2.4	2.0	2.5	1.9	1.6	1.7	2.4	1.9	1.7
80%	1.7	1.5	1.7	2.1	2.0	1.9	1.8	1.5	1.5	2.3	1.8	1.7
90%	1.5	1.4	1.5	1.8	1.6	1.7	1.6	1.3	1.5	2.0	1.7	1.6
Long Term												
Full Simulation Period[a]	1.9	2.5	3.6	4.5	5.0	5.1	3.2	2.1	1.9	2.7	2.1	2.3
Water Year Types[b]												
Wet (31%)	2.2	4.4	8.3	7.5	9.6	9.2	6.1	3.2	2.6	2.9	2.4	3.8
Above Normal (25%)	1.7	1.7	2.7	9.0	9.0	7.7	3.5	2.1	1.9	3.1	2.4	2.6
Below Normal (6%)	2.1	2.1	1.9	3.5	4.2	3.9	2.2	1.8	2.0	2.3	2.1	1.9
Dry (13%)	1.8	2.1	2.2	2.3	2.6	3.7	2.1	1.9	1.8	2.8	2.2	1.8
Critical (25%)	1.8	1.7	1.8	2.5	1.8	2.2	1.7	1.4	1.5	2.3	1.7	1.7

Alternative 2A,2B,2C (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.3	3.0	7.6	7.5	9.1	8.2	5.3	2.4	2.4	3.2	2.4	3.0
20%	2.2	2.7	2.6	6.4	8.2	6.7	2.8	2.3	2.4	3.1	2.3	2.8
30%	2.1	2.0	2.5	4.4	4.5	4.7	2.3	2.2	2.2	2.9	2.3	2.4
40%	1.9	2.0	2.4	2.7	3.0	3.1	2.2	2.1	2.1	2.8	2.3	2.2
50%	1.8	1.9	2.2	2.6	2.6	2.9	2.1	2.0	2.1	2.8	2.2	2.2
60%	1.8	1.7	2.2	2.5	1.9	2.7	2.0	1.9	2.0	2.6	2.1	2.1
70%	1.8	1.7	2.0	2.2	1.9	2.2	2.0	1.8	2.0	2.4	2.1	2.1
80%	1.7	1.6	1.9	1.9	1.9	1.8	1.9	1.7	1.9	2.3	2.0	2.1
90%	1.6	1.5	1.8	1.8	1.6	1.8	1.8	1.5	1.9	2.0	2.0	2.0
Long Term												
Full Simulation Period[a]	1.9	2.2	3.3	3.7	4.1	4.1	2.9	2.1	2.1	2.7	2.2	2.3
Water Year Types[b]												
Wet (31%)	1.9	3.5	7.0	5.9	7.9	7.5	5.2	2.7	2.5	2.9	2.1	3.0
Above Normal (25%)	2.2	1.6	2.5	7.1	7.1	5.9	2.5	2.1	1.9	3.1	2.2	2.1
Below Normal (6%)	1.8	1.6	1.9	2.9	3.0	2.8	2.2	1.9	2.1	2.0	1.8	2.0
Dry (13%)	1.7	1.9	2.2	2.0	2.1	2.8	2.2	2.2	2.2	2.8	2.4	2.2
Critical (25%)	2.0	1.9	2.0	2.3	1.8	2.0	1.9	1.7	1.9	2.4	2.2	2.2

Alternative 2A,2B,2C (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.1	**-1.1**	**-1.8**	**-1.9**	**-1.7**	**-1.8**	**-1.6**	**-0.6**	0.2	**-0.1**	**0.0**	**-0.9**
20%	0.2	**-0.5**	**-0.3**	**-1.9**	**-1.9**	**-1.9**	**-0.4**	0.1	0.3	**-0.2**	**-0.1**	**-0.4**
30%	0.1	**-0.3**	**-0.3**	**-1.3**	**-1.8**	**-1.9**	**-0.3**	0.1	0.2	**-0.1**	**-0.1**	**-0.3**
40%	0.0	**-0.1**	**-0.1**	**-0.8**	**-1.2**	**-1.5**	0.0	0.2	0.3	**0.0**	**-0.1**	0.3
50%	0.0	0.0	**-0.1**	**-0.7**	**-0.7**	**-1.1**	0.1	0.3	0.3	0.0	0.1	0.3
60%	**0.0**	0.1	0.1	**-0.2**	**-0.4**	**-0.6**	0.1	0.2	0.3	0.0	0.1	0.3
70%	0.0	0.1	0.1	**-0.3**	**-0.1**	**-0.3**	0.1	0.2	0.3	**-0.1**	0.1	0.4
80%	0.1	0.1	0.2	**-0.1**	**-0.1**	**-0.1**	0.1	0.2	0.4	**-0.1**	0.2	0.4
90%	0.1	0.1	0.3	0.1	0.0	0.1	0.2	0.2	0.4	0.0	0.3	0.4
Long Term												
Full Simulation Period[a]	0.1	**-0.3**	**-0.3**	**-0.8**	**-0.9**	**-1.0**	**-0.3**	0.0	0.2	0.0	0.1	**0.0**
Water Year Types[b]												
Wet (31%)	**-0.2**	**-0.9**	**-1.3**	**-1.6**	**-1.7**	**-1.7**	**-0.9**	**-0.5**	**-0.2**	0.0	**-0.3**	**-0.8**
Above Normal (25%)	0.6	**-0.1**	**-0.2**	**-1.9**	**-1.9**	**-1.7**	**-0.9**	**0.0**	0.0	0.0	**-0.1**	**-0.5**
Below Normal (6%)	**-0.3**	**-0.5**	**-0.1**	**-0.6**	**-1.2**	**-1.1**	**0.0**	0.1	0.1	**-0.4**	**-0.2**	0.1
Dry (13%)	**-0.1**	**-0.2**	**0.0**	**-0.3**	**-0.5**	**-0.9**	0.1	0.2	0.4	**0.0**	0.2	0.4
Critical (25%)	0.3	0.2	0.2	**-0.2**	**-0.1**	**-0.2**	0.1	0.2	0.4	0.1	0.4	0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-30-2-16. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.2	4.2	9.4	9.4	10.8	10.0	6.8	3.0	2.2	3.3	2.5	3.9
20%	2.1	3.2	2.9	8.3	10.1	8.6	3.2	2.2	2.0	3.2	2.4	3.2
30%	1.9	2.4	2.8	5.7	6.3	6.6	2.5	2.1	1.9	3.1	2.4	2.6
40%	1.9	2.1	2.5	3.5	4.2	4.7	2.2	1.9	1.8	2.9	2.3	1.9
50%	1.8	1.9	2.3	3.3	3.3	4.0	2.0	1.7	1.8	2.8	2.1	1.9
60%	1.8	1.6	2.1	2.7	2.3	3.3	1.9	1.7	1.7	2.5	2.0	1.8
70%	1.8	1.6	1.9	2.4	2.0	2.5	1.9	1.6	1.7	2.4	1.9	1.7
80%	1.7	1.5	1.7	2.1	2.0	1.9	1.8	1.5	1.5	2.3	1.8	1.7
90%	1.5	1.4	1.5	1.8	1.6	1.7	1.6	1.3	1.5	2.0	1.7	1.6
Long Term												
Full Simulation Period[a]	1.9	2.5	3.6	4.5	5.0	5.1	3.2	2.1	1.9	2.7	2.1	2.3
Water Year Types[b]												
Wet (31%)	2.2	4.4	8.3	7.5	9.6	9.2	6.1	3.2	2.6	2.9	2.4	3.8
Above Normal (25%)	1.7	1.7	2.7	9.0	9.0	7.7	3.5	2.1	1.9	3.1	2.4	2.6
Below Normal (6%)	2.1	2.1	1.9	3.5	4.2	3.9	2.2	1.8	2.0	2.3	2.1	1.9
Dry (13%)	1.8	2.1	2.2	2.3	2.6	3.7	2.1	1.9	1.8	2.8	2.2	1.8
Critical (25%)	1.8	1.7	1.8	2.5	1.8	2.2	1.7	1.4	1.5	2.3	1.7	1.7

Alternative 3 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.1	3.9	8.6	8.1	9.8	8.9	5.7	2.8	2.7	3.1	2.4	2.3
20%	2.8	2.9	2.9	7.1	8.9	7.3	2.9	2.3	2.4	3.0	2.3	2.2
30%	2.5	2.0	2.7	4.9	5.1	5.4	2.5	2.2	2.2	2.9	2.3	2.2
40%	2.2	1.9	2.4	3.1	3.4	3.4	2.2	2.0	2.1	2.6	2.2	2.1
50%	2.2	1.8	2.4	2.9	2.9	3.2	2.2	1.9	2.1	2.5	2.1	2.1
60%	1.9	1.8	2.3	2.5	2.2	2.8	2.1	1.9	2.0	2.4	2.1	2.1
70%	1.9	1.8	2.0	2.1	2.1	2.5	2.0	1.9	2.0	2.3	2.0	2.0
80%	1.8	1.7	2.0	2.0	2.0	2.1	2.0	1.7	1.9	2.0	2.0	2.0
90%	1.8	1.6	1.8	1.8	1.7	1.9	1.8	1.5	1.9	2.0	2.0	1.9
Long Term												
Full Simulation Period[a]	2.3	2.4	3.6	4.0	4.5	4.5	3.1	2.2	2.2	2.6	2.2	2.1
Water Year Types[b]												
Wet (31%)	2.1	4.2	7.6	6.3	8.5	8.1	5.6	3.0	2.8	2.8	2.1	2.4
Above Normal (25%)	2.5	1.8	2.6	7.8	7.9	6.3	2.9	2.0	2.2	2.6	2.0	2.0
Below Normal (6%)	2.8	1.8	2.0	3.1	3.4	3.1	2.2	1.9	2.1	2.0	1.8	1.8
Dry (13%)	1.9	2.0	2.3	2.3	2.4	3.3	2.3	2.2	2.1	2.9	2.4	2.1
Critical (25%)	2.7	1.8	2.0	2.2	1.9	2.1	1.9	1.7	1.9	2.3	2.2	2.2

Alternative 3 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.9	**-0.3**	**-0.8**	**-1.3**	**-1.0**	**-1.0**	**-1.1**	**-0.2**	0.5	**-0.2**	**-0.1**	**-1.6**
20%	0.8	**-0.3**	**0.0**	**-1.1**	**-1.2**	**-1.3**	**-0.3**	0.1	0.4	**-0.2**	**-0.1**	**-1.0**
30%	0.6	**-0.4**	**-0.1**	**-0.9**	**-1.2**	**-1.2**	**0.0**	0.1	0.3	**-0.1**	**0.0**	**-0.4**
40%	0.3	**-0.2**	**0.0**	**-0.3**	**-0.8**	**-1.3**	0.0	0.1	0.3	**-0.3**	**-0.1**	0.2
50%	0.3	**-0.1**	0.0	**-0.4**	**-0.4**	**-0.8**	0.2	0.2	0.3	**-0.3**	**-0.1**	0.2
60%	0.1	0.1	0.2	**-0.2**	**-0.1**	**-0.5**	0.2	0.2	0.3	**-0.1**	0.0	0.2
70%	0.1	0.2	0.1	**-0.3**	0.1	**0.0**	0.2	0.3	0.3	**-0.1**	0.1	0.3
80%	0.1	0.2	0.3	**-0.1**	0.1	0.2	0.2	0.2	0.4	**-0.3**	0.2	0.3
90%	0.3	0.2	0.3	0.1	0.1	0.1	0.2	0.2	0.4	0.0	0.3	0.3
Long Term												
Full Simulation Period[a]	0.4	**-0.1**	**-0.1**	**-0.5**	**-0.5**	**-0.6**	**-0.1**	0.1	0.3	**-0.1**	0.0	**-0.2**
Water Year Types[b]												
Wet (31%)	**-0.1**	**-0.2**	**-0.6**	**-1.1**	**-1.1**	**-1.1**	**-0.5**	**-0.3**	0.2	**-0.1**	**-0.3**	**-1.4**
Above Normal (25%)	0.9	0.1	**-0.1**	**-1.2**	**-1.1**	**-1.3**	**-0.5**	**-0.1**	0.3	**-0.4**	**-0.3**	**-0.6**
Below Normal (6%)	0.8	**-0.3**	0.1	**-0.3**	**-0.8**	**-0.8**	0.0	0.1	0.1	**-0.3**	**-0.3**	**-0.1**
Dry (13%)	0.1	**-0.2**	0.2	0.0	**-0.2**	**-0.4**	0.1	0.3	0.3	0.0	0.2	0.3
Critical (25%)	0.9	0.1	0.2	**-0.2**	0.1	**-0.1**	0.2	0.2	0.4	0.1	0.4	0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-30-2-17. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.2	4.2	9.4	9.4	10.8	10.0	6.8	3.0	2.2	3.3	2.5	3.9
20%	2.1	3.2	2.9	8.3	10.1	8.6	3.2	2.2	2.0	3.2	2.4	3.2
30%	1.9	2.4	2.8	5.7	6.3	6.6	2.5	2.1	1.9	3.1	2.4	2.6
40%	1.9	2.1	2.5	3.5	4.2	4.7	2.2	1.9	1.8	2.9	2.3	1.9
50%	1.8	1.9	2.3	3.3	3.3	4.0	2.0	1.7	1.8	2.8	2.1	1.9
60%	1.8	1.6	2.1	2.7	2.3	3.3	1.9	1.7	1.7	2.5	2.0	1.8
70%	1.8	1.6	1.9	2.4	2.0	2.5	1.9	1.6	1.7	2.4	1.9	1.7
80%	1.7	1.5	1.7	2.1	2.0	1.9	1.8	1.5	1.5	2.3	1.8	1.7
90%	1.5	1.4	1.5	1.8	1.6	1.7	1.6	1.3	1.5	2.0	1.7	1.6
Long Term												
Full Simulation Period[a]	1.9	2.5	3.6	4.5	5.0	5.1	3.2	2.1	1.9	2.7	2.1	2.3
Water Year Types[b]												
Wet (31%)	2.2	4.4	8.3	7.5	9.6	9.2	6.1	3.2	2.6	2.9	2.4	3.8
Above Normal (25%)	1.7	1.7	2.7	9.0	9.0	7.7	3.5	2.1	1.9	3.1	2.4	2.6
Below Normal (6%)	2.1	2.1	1.9	3.5	4.2	3.9	2.2	1.8	2.0	2.3	2.1	1.9
Dry (13%)	1.8	2.1	2.2	2.3	2.6	3.7	2.1	1.9	1.8	2.8	2.2	1.8
Critical (25%)	1.8	1.7	1.8	2.5	1.8	2.2	1.7	1.4	1.5	2.3	1.7	1.7

Alternative 4 H1 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.3	3.7	8.3	7.8	9.6	8.6	5.4	2.6	2.4	3.5	2.5	2.4
20%	2.3	2.8	2.7	6.8	8.6	7.0	2.9	2.4	2.3	3.1	2.4	2.2
30%	2.1	2.0	2.6	4.6	4.7	5.3	2.3	2.2	2.1	3.0	2.3	2.2
40%	2.0	1.9	2.5	3.0	3.3	3.3	2.2	2.0	2.1	2.8	2.3	2.2
50%	1.9	1.7	2.3	2.8	2.7	3.0	2.1	2.0	2.0	2.7	2.2	2.1
60%	1.8	1.6	2.2	2.7	2.1	2.8	2.0	1.9	2.0	2.4	2.1	2.1
70%	1.7	1.6	2.0	2.5	2.0	2.2	2.0	1.8	1.9	2.4	2.1	2.1
80%	1.7	1.6	1.9	2.2	1.9	1.9	1.9	1.7	1.9	2.2	2.1	1.8
90%	1.6	1.5	1.9	1.8	1.8	1.8	1.9	1.5	1.9	2.0	1.9	1.7
Long Term												
Full Simulation Period[a]	2.0	2.3	3.5	4.0	4.4	4.3	2.9	2.1	2.1	2.7	2.2	2.1
Water Year Types[b]												
Wet (31%)	1.9	3.9	7.4	6.1	8.2	7.8	5.3	2.8	2.5	3.0	2.1	2.2
Above Normal (25%)	2.1	1.6	2.6	7.6	7.6	6.1	2.6	2.0	1.9	3.2	2.2	1.7
Below Normal (6%)	2.3	1.6	1.9	3.0	3.3	3.0	2.2	1.9	2.0	1.8	1.7	1.6
Dry (13%)	1.7	1.9	2.2	2.1	2.2	3.1	2.2	2.2	2.2	2.9	2.5	2.3
Critical (25%)	2.1	1.8	2.1	2.5	1.9	2.0	1.9	1.7	1.9	2.3	2.2	2.1

Alternative 4 H1 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.2	**-0.4**	**-1.1**	**-1.6**	**-1.2**	**-1.4**	**-1.5**	**-0.4**	0.2	0.2	**0.0**	**-1.5**
20%	0.2	**-0.4**	**-0.2**	**-1.5**	**-1.5**	**-1.6**	**-0.3**	0.1	0.2	**-0.1**	**0.0**	**-1.0**
30%	0.2	**-0.4**	**-0.2**	**-1.1**	**-1.6**	**-1.3**	**-0.3**	0.1	0.2	**-0.1**	**0.0**	**-0.4**
40%	0.1	**-0.2**	0.0	**-0.4**	**-1.0**	**-1.4**	0.0	0.1	0.2	**0.0**	**0.0**	0.2
50%	0.0	**-0.2**	0.0	**-0.5**	**-0.6**	**-1.0**	0.1	0.2	0.2	**0.0**	0.1	0.3
60%	**0.0**	0.0	0.1	**-0.1**	**-0.3**	**-0.5**	0.1	0.2	0.3	**-0.1**	0.1	0.3
70%	**0.0**	0.0	0.1	0.0	**-0.1**	**-0.3**	0.1	0.2	0.3	**-0.1**	0.1	0.4
80%	0.0	0.1	0.2	0.2	**0.0**	**0.0**	0.1	0.2	0.4	**-0.1**	0.3	0.1
90%	0.2	0.2	0.3	0.1	0.2	0.1	0.2	0.2	0.4	0.0	0.2	0.1
Long Term												
Full Simulation Period[a]	0.1	**-0.2**	**-0.2**	**-0.6**	**-0.7**	**-0.8**	**-0.2**	0.0	0.2	0.0	0.1	**-0.2**
Water Year Types[b]												
Wet (31%)	**-0.3**	**-0.5**	**-0.9**	**-1.3**	**-1.4**	**-1.4**	**-0.8**	**-0.4**	**-0.1**	0.1	**-0.3**	**-1.5**
Above Normal (25%)	0.5	**-0.1**	**-0.1**	**-1.4**	**-1.4**	**-1.5**	**-0.9**	**-0.1**	0.1	0.1	**-0.2**	**-0.9**
Below Normal (6%)	0.2	**-0.5**	**0.0**	**-0.4**	**-1.0**	**-0.9**	0.0	0.1	**0.0**	**-0.6**	**-0.3**	**-0.3**
Dry (13%)	**-0.1**	**-0.2**	0.1	**-0.1**	**-0.4**	**-0.6**	0.1	0.2	0.4	0.0	0.3	0.5
Critical (25%)	0.3	0.1	0.2	**0.0**	0.0	**-0.1**	0.1	0.2	0.4	0.0	0.4	0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-30-2-18. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.2	4.2	9.4	9.4	10.8	10.0	6.8	3.0	2.2	3.3	2.5	3.9
20%	2.1	3.2	2.9	8.3	10.1	8.6	3.2	2.2	2.0	3.2	2.4	3.2
30%	1.9	2.4	2.8	5.7	6.3	6.6	2.5	2.1	1.9	3.1	2.4	2.6
40%	1.9	2.1	2.5	3.5	4.2	4.7	2.2	1.9	1.8	2.9	2.3	1.9
50%	1.8	1.9	2.3	3.3	3.3	4.0	2.0	1.7	1.8	2.8	2.1	1.9
60%	1.8	1.6	2.1	2.7	2.3	3.3	1.9	1.7	1.7	2.5	2.0	1.8
70%	1.8	1.6	1.9	2.4	2.0	2.5	1.9	1.6	1.7	2.4	1.9	1.7
80%	1.7	1.5	1.7	2.1	2.0	1.9	1.8	1.5	1.5	2.3	1.8	1.7
90%	1.5	1.4	1.5	1.8	1.6	1.7	1.6	1.3	1.5	2.0	1.7	1.6
Long Term												
Full Simulation Period[a]	1.9	2.5	3.6	4.5	5.0	5.1	3.2	2.1	1.9	2.7	2.1	2.3
Water Year Types[b]												
Wet (31%)	2.2	4.4	8.3	7.5	9.6	9.2	6.1	3.2	2.6	2.9	2.4	3.8
Above Normal (25%)	1.7	1.7	2.7	9.0	9.0	7.7	3.5	2.1	1.9	3.1	2.4	2.6
Below Normal (6%)	2.1	2.1	1.9	3.5	4.2	3.9	2.2	1.8	2.0	2.3	2.1	1.9
Dry (13%)	1.8	2.1	2.2	2.3	2.6	3.7	2.1	1.9	1.8	2.8	2.2	1.8
Critical (25%)	1.8	1.7	1.8	2.5	1.8	2.2	1.7	1.4	1.5	2.3	1.7	1.7

Alternative 4 H2 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.5	3.8	8.4	7.8	9.6	8.6	5.8	2.7	2.4	3.0	2.4	2.3
20%	2.4	2.9	2.8	6.8	8.6	7.0	3.4	2.4	2.2	2.7	2.4	2.2
30%	2.1	2.0	2.6	4.6	4.8	5.5	3.0	2.4	2.1	2.6	2.3	2.2
40%	2.0	1.9	2.6	2.8	3.3	3.3	2.5	2.3	2.0	2.6	2.2	2.1
50%	1.9	1.7	2.2	2.7	2.7	3.1	2.2	2.0	2.0	2.5	2.2	2.1
60%	1.9	1.7	2.0	2.6	2.0	2.8	2.1	1.9	2.0	2.4	2.1	2.1
70%	1.8	1.6	1.9	2.4	2.0	2.3	2.0	1.8	1.9	2.1	2.1	2.0
80%	1.7	1.6	1.7	2.1	1.9	1.9	1.9	1.7	1.9	2.0	2.1	1.8
90%	1.7	1.5	1.7	1.9	1.6	1.8	1.8	1.5	1.9	1.9	1.9	1.7
Long Term												
Full Simulation Period[a]	2.0	2.3	3.4	4.0	4.3	4.4	3.2	2.2	2.1	2.4	2.2	2.1
Water Year Types[b]												
Wet (31%)	2.0	4.0	7.5	6.1	8.2	7.8	5.8	2.9	2.5	2.6	2.1	2.2
Above Normal (25%)	2.2	1.6	2.6	7.7	7.7	6.2	3.5	2.4	1.9	2.3	2.1	1.7
Below Normal (6%)	1.6	1.6	1.7	3.0	3.4	3.1	2.2	1.9	2.0	1.8	1.7	1.6
Dry (13%)	1.8	1.9	2.1	2.1	2.2	3.2	2.2	2.1	2.2	2.7	2.4	2.1
Critical (25%)	2.2	1.8	2.0	2.4	1.8	2.1	1.9	1.7	1.9	2.3	2.2	2.2

Alternative 4 H2 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.3	**-0.4**	**-1.0**	**-1.6**	**-1.2**	**-1.4**	**-1.1**	**-0.2**	0.2	**-0.3**	**0.0**	**-1.6**
20%	0.3	**-0.3**	**-0.1**	**-1.5**	**-1.5**	**-1.6**	0.2	0.2	0.2	**-0.5**	**-0.1**	**-1.0**
30%	0.2	**-0.4**	**-0.2**	**-1.2**	**-1.5**	**-1.1**	0.5	0.3	0.2	**-0.4**	**-0.1**	**-0.4**
40%	0.1	**-0.2**	0.1	**-0.7**	**-0.9**	**-1.4**	0.3	0.4	0.2	**-0.3**	**-0.1**	0.2
50%	0.1	**-0.2**	**-0.2**	**-0.6**	**-0.6**	**-0.9**	0.2	0.3	0.2	**-0.3**	0.0	0.3
60%	0.0	0.0	**-0.1**	**-0.1**	**-0.3**	**-0.5**	0.2	0.2	0.3	**-0.1**	0.1	0.3
70%	0.0	0.0	0.0	**-0.1**	**-0.1**	**-0.3**	0.1	0.3	0.3	**-0.3**	0.1	0.3
80%	0.0	0.1	0.0	0.1	**0.0**	**0.0**	0.1	0.2	0.4	**-0.3**	0.3	0.2
90%	0.2	0.1	0.2	0.1	0.0	0.1	0.2	0.2	0.4	**-0.1**	0.2	0.1
Long Term												
Full Simulation Period[a]	0.1	**-0.2**	**-0.2**	**-0.6**	**-0.7**	**-0.7**	**0.0**	0.1	0.2	**-0.2**	0.0	**-0.3**
Water Year Types[b]												
Wet (31%)	**-0.2**	**-0.4**	**-0.8**	**-1.3**	**-1.4**	**-1.4**	**-0.3**	**-0.3**	**-0.2**	**-0.4**	**-0.3**	**-1.5**
Above Normal (25%)	0.6	**-0.1**	**-0.1**	**-1.2**	**-1.3**	**-1.5**	0.0	0.3	0.0	**-0.8**	**-0.3**	**-0.9**
Below Normal (6%)	**-0.5**	**-0.5**	**-0.2**	**-0.4**	**-0.8**	**-0.7**	0.0	0.2	**0.0**	**-0.6**	**-0.4**	**-0.3**
Dry (13%)	0.0	**-0.2**	**0.0**	**-0.2**	**-0.4**	**-0.5**	0.1	0.2	0.4	**-0.1**	0.2	0.3
Critical (25%)	0.4	0.1	0.1	**-0.1**	**0.0**	**-0.1**	0.1	0.2	0.4	0.1	0.4	0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-30-2-19. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.2	4.2	9.4	9.4	10.8	10.0	6.8	3.0	2.2	3.3	2.5	3.9
20%	2.1	3.2	2.9	8.3	10.1	8.6	3.2	2.2	2.0	3.2	2.4	3.2
30%	1.9	2.4	2.8	5.7	6.3	6.6	2.5	2.1	1.9	3.1	2.4	2.6
40%	1.9	2.1	2.5	3.5	4.2	4.7	2.2	1.9	1.8	2.9	2.3	1.9
50%	1.8	1.9	2.3	3.3	3.3	4.0	2.0	1.7	1.8	2.8	2.1	1.9
60%	1.8	1.6	2.1	2.7	2.3	3.3	1.9	1.7	1.7	2.5	2.0	1.8
70%	1.8	1.6	1.9	2.4	2.0	2.5	1.9	1.6	1.7	2.4	1.9	1.7
80%	1.7	1.5	1.7	2.1	2.0	1.9	1.8	1.5	1.5	2.3	1.8	1.7
90%	1.5	1.4	1.5	1.8	1.6	1.7	1.6	1.3	1.5	2.0	1.7	1.6
Long Term												
Full Simulation Period[a]	1.9	2.5	3.6	4.5	5.0	5.1	3.2	2.1	1.9	2.7	2.1	2.3
Water Year Types[b]												
Wet (31%)	2.2	4.4	8.3	7.5	9.6	9.2	6.1	3.2	2.6	2.9	2.4	3.8
Above Normal (25%)	1.7	1.7	2.7	9.0	9.0	7.7	3.5	2.1	1.9	3.1	2.4	2.6
Below Normal (6%)	2.1	2.1	1.9	3.5	4.2	3.9	2.2	1.8	2.0	2.3	2.1	1.9
Dry (13%)	1.8	2.1	2.2	2.3	2.6	3.7	2.1	1.9	1.8	2.8	2.2	1.8
Critical (25%)	1.8	1.7	1.8	2.5	1.8	2.2	1.7	1.4	1.5	2.3	1.7	1.7

Alternative 4 H3 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.2	3.7	8.1	7.8	9.5	8.6	5.4	2.6	2.4	3.5	2.5	3.1
20%	2.1	2.9	2.6	6.8	8.6	7.0	2.9	2.4	2.3	3.1	2.3	2.8
30%	2.0	2.0	2.6	4.7	4.7	5.0	2.3	2.2	2.1	2.9	2.3	2.4
40%	1.9	2.0	2.6	3.0	3.3	3.3	2.1	2.1	2.1	2.8	2.3	2.2
50%	1.9	1.9	2.4	2.8	2.7	3.0	2.1	2.0	2.1	2.7	2.2	2.2
60%	1.8	1.7	2.2	2.6	2.1	2.8	2.0	1.9	2.0	2.5	2.2	2.2
70%	1.8	1.6	2.1	2.2	2.0	2.2	2.0	1.8	1.9	2.4	2.1	2.1
80%	1.7	1.6	1.9	2.0	1.9	1.9	1.9	1.7	1.9	2.2	2.1	2.1
90%	1.7	1.6	1.8	1.8	1.6	1.8	1.8	1.5	1.9	2.0	1.9	2.1
Long Term												
Full Simulation Period[a]	1.9	2.4	3.5	3.9	4.3	4.3	2.9	2.1	2.1	2.7	2.2	2.4
Water Year Types[b]												
Wet (31%)	1.9	3.9	7.3	6.1	8.2	7.8	5.4	2.8	2.5	3.0	2.1	3.1
Above Normal (25%)	2.3	1.6	2.6	7.5	7.5	6.1	2.6	2.0	1.9	3.1	2.2	2.2
Below Normal (6%)	1.8	1.6	1.7	3.0	3.3	3.0	2.2	1.9	2.1	1.8	1.7	2.0
Dry (13%)	1.8	2.0	2.2	2.1	2.2	3.0	2.2	2.2	2.2	2.9	2.4	2.2
Critical (25%)	2.0	1.9	2.1	2.4	1.8	2.0	1.9	1.7	1.9	2.3	2.1	2.2

Alternative 4 H3 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.1	**-0.4**	**-1.3**	**-1.6**	**-1.4**	**-1.4**	**-1.5**	**-0.4**	0.2	0.2	0.0	**-0.8**
20%	0.0	**-0.3**	**-0.3**	**-1.5**	**-1.5**	**-1.6**	**-0.3**	0.1	0.3	**-0.1**	**-0.1**	**-0.4**
30%	0.0	**-0.3**	**-0.2**	**-1.0**	**-1.6**	**-1.6**	**-0.3**	0.1	0.2	**-0.1**	**-0.1**	**-0.2**
40%	0.0	**-0.1**	0.1	**-0.5**	**-1.0**	**-1.4**	**-0.1**	0.2	0.2	**-0.1**	**-0.1**	0.3
50%	0.0	0.0	0.0	**-0.5**	**-0.6**	**-1.0**	0.1	0.3	0.2	**-0.1**	0.0	0.4
60%	**0.0**	0.1	0.1	**-0.1**	**-0.3**	**-0.5**	0.1	0.2	0.3	**-0.1**	0.1	0.4
70%	**0.0**	0.1	0.1	**-0.2**	**-0.1**	**-0.3**	0.1	0.2	0.3	**-0.1**	0.2	0.4
80%	0.0	0.1	0.2	**-0.1**	**-0.1**	**0.0**	0.1	0.2	0.4	**-0.1**	0.3	0.5
90%	0.2	0.2	0.3	**0.0**	0.1	0.1	0.2	0.2	0.4	0.0	0.2	0.4
Long Term												
Full Simulation Period[a]	0.1	**-0.1**	**-0.2**	**-0.6**	**-0.7**	**-0.8**	**-0.2**	0.0	0.2	0.0	0.1	0.1
Water Year Types[b]												
Wet (31%)	**-0.3**	**-0.5**	**-1.0**	**-1.4**	**-1.4**	**-1.4**	**-0.8**	**-0.4**	**-0.1**	0.1	**-0.3**	**-0.7**
Above Normal (25%)	0.6	**-0.1**	**-0.1**	**-1.5**	**-1.5**	**-1.5**	**-0.9**	**-0.1**	0.1	0.1	**-0.1**	**-0.4**
Below Normal (6%)	**-0.3**	**-0.5**	**-0.2**	**-0.5**	**-1.0**	**-0.9**	0.0	0.1	0.0	**-0.6**	**-0.3**	0.1
Dry (13%)	**0.0**	**-0.2**	0.0	**-0.2**	**-0.4**	**-0.7**	0.1	0.3	0.4	0.0	0.2	0.5
Critical (25%)	0.2	0.2	0.2	**-0.1**	**0.0**	**-0.1**	0.1	0.2	0.4	0.0	0.4	0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-30-2-20. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.2	4.2	9.4	9.4	10.8	10.0	6.8	3.0	2.2	3.3	2.5	3.9
20%	2.1	3.2	2.9	8.3	10.1	8.6	3.2	2.2	2.0	3.2	2.4	3.2
30%	1.9	2.4	2.8	5.7	6.3	6.6	2.5	2.1	1.9	3.1	2.4	2.6
40%	1.9	2.1	2.5	3.5	4.2	4.7	2.2	1.9	1.8	2.9	2.3	1.9
50%	1.8	1.9	2.3	3.3	3.3	4.0	2.0	1.7	1.8	2.8	2.1	1.9
60%	1.8	1.6	2.1	2.7	2.3	3.3	1.9	1.7	1.7	2.5	2.0	1.8
70%	1.8	1.6	1.9	2.4	2.0	2.5	1.9	1.6	1.7	2.4	1.9	1.7
80%	1.7	1.5	1.7	2.1	2.0	1.9	1.8	1.5	1.5	2.3	1.8	1.7
90%	1.5	1.4	1.5	1.8	1.6	1.7	1.6	1.3	1.5	2.0	1.7	1.6
Long Term												
Full Simulation Period[a]	1.9	2.5	3.6	4.5	5.0	5.1	3.2	2.1	1.9	2.7	2.1	2.3
Water Year Types[b]												
Wet (31%)	2.2	4.4	8.3	7.5	9.6	9.2	6.1	3.2	2.6	2.9	2.4	3.8
Above Normal (25%)	1.7	1.7	2.7	9.0	9.0	7.7	3.5	2.1	1.9	3.1	2.4	2.6
Below Normal (6%)	2.1	2.1	1.9	3.5	4.2	3.9	2.2	1.8	2.0	2.3	2.1	1.9
Dry (13%)	1.8	2.1	2.2	2.3	2.6	3.7	2.1	1.9	1.8	2.8	2.2	1.8
Critical (25%)	1.8	1.7	1.8	2.5	1.8	2.2	1.7	1.4	1.5	2.3	1.7	1.7

Alternative 4 H4 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.3	3.6	8.1	7.9	9.5	8.6	5.8	2.7	2.4	2.9	2.4	3.1
20%	2.2	2.9	2.6	6.8	8.6	7.0	3.4	2.4	2.2	2.7	2.4	3.0
30%	2.1	2.0	2.6	4.6	4.8	5.4	3.0	2.4	2.1	2.6	2.3	2.3
40%	2.0	2.0	2.5	2.8	3.3	3.2	2.5	2.3	2.0	2.5	2.3	2.3
50%	2.0	1.9	2.2	2.6	2.7	3.0	2.2	2.0	2.0	2.4	2.2	2.2
60%	1.9	1.7	2.1	2.3	2.0	2.8	2.1	1.9	2.0	2.3	2.2	2.2
70%	1.9	1.7	1.9	2.0	2.0	2.2	2.0	1.8	1.9	2.2	2.1	2.2
80%	1.7	1.6	1.9	2.0	1.9	1.9	1.9	1.7	1.9	1.9	2.1	2.1
90%	1.7	1.5	1.7	1.7	1.6	1.8	1.8	1.5	1.8	1.9	2.0	2.1
Long Term												
Full Simulation Period[a]	2.0	2.4	3.4	3.9	4.3	4.3	3.2	2.2	2.1	2.4	2.2	2.4
Water Year Types[b]												
Wet (31%)	2.1	3.9	7.3	6.1	8.2	7.8	5.8	2.9	2.5	2.6	2.2	3.1
Above Normal (25%)	2.3	1.6	2.6	7.7	7.6	6.2	3.5	2.4	1.9	2.3	2.1	2.2
Below Normal (6%)	2.0	1.6	1.8	3.0	3.3	3.0	2.2	1.9	2.0	1.8	2.0	1.9
Dry (13%)	1.8	1.9	2.1	2.1	2.2	3.1	2.2	2.1	2.2	2.6	2.4	2.1
Critical (25%)	2.0	1.9	2.0	2.1	1.8	2.0	1.9	1.7	1.9	2.3	2.2	2.2

Alternative 4 H4 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.2	**-0.6**	**-1.3**	**-1.6**	**-1.4**	**-1.4**	**-1.0**	**-0.2**	0.2	**-0.4**	**0.0**	**-0.8**
20%	0.2	**-0.3**	**-0.3**	**-1.5**	**-1.5**	**-1.6**	0.2	0.2	0.2	**-0.5**	**-0.1**	**-0.2**
30%	0.2	**-0.3**	**-0.2**	**-1.2**	**-1.5**	**-1.2**	0.5	0.3	0.2	**-0.4**	**0.0**	**-0.3**
40%	0.1	**-0.1**	0.1	**-0.7**	**-0.9**	**-1.4**	0.3	0.4	0.2	**-0.3**	**0.0**	0.3
50%	0.1	0.0	**-0.2**	**-0.6**	**-0.6**	**-1.0**	0.2	0.3	0.2	**-0.4**	0.1	0.3
60%	0.1	0.1	**0.0**	**-0.4**	**-0.3**	**-0.5**	0.2	0.2	0.3	**-0.2**	0.1	0.4
70%	0.1	0.1	0.0	**-0.4**	**-0.1**	**-0.3**	0.1	0.2	0.3	**-0.3**	0.2	0.5
80%	0.1	0.1	0.2	**-0.1**	**-0.1**	**0.0**	0.1	0.2	0.4	**-0.4**	0.3	0.4
90%	0.2	0.2	0.2	**-0.1**	0.0	0.1	0.2	0.2	0.4	**-0.1**	0.3	0.4
Long Term												
Full Simulation Period[a]	0.1	**-0.1**	**-0.2**	**-0.7**	**-0.7**	**-0.8**	**0.0**	0.1	0.2	**-0.3**	0.1	0.0
Water Year Types[b]												
Wet (31%)	**-0.1**	**-0.5**	**-0.9**	**-1.4**	**-1.4**	**-1.4**	**-0.3**	**-0.3**	**-0.2**	**-0.4**	**-0.2**	**-0.7**
Above Normal (25%)	0.6	**-0.1**	**-0.1**	**-1.3**	**-1.4**	**-1.5**	0.0	0.3	0.0	**-0.8**	**-0.3**	**-0.4**
Below Normal (6%)	**-0.1**	**-0.5**	**-0.1**	**-0.4**	**-0.9**	**-0.9**	0.0	0.2	0.0	**-0.6**	**-0.1**	**-0.1**
Dry (13%)	**0.0**	**-0.2**	**-0.1**	**-0.2**	**-0.4**	**-0.5**	0.1	0.2	0.4	**-0.2**	0.2	0.4
Critical (25%)	0.3	0.2	0.1	**-0.4**	**0.0**	**-0.1**	0.1	0.2	0.4	0.1	0.5	0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-30-2-21. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.2	4.2	9.4	9.4	10.8	10.0	6.8	3.0	2.2	3.3	2.5	3.9
20%	2.1	3.2	2.9	8.3	10.1	8.6	3.2	2.2	2.0	3.2	2.4	3.2
30%	1.9	2.4	2.8	5.7	6.3	6.6	2.5	2.1	1.9	3.1	2.4	2.6
40%	1.9	2.1	2.5	3.5	4.2	4.7	2.2	1.9	1.8	2.9	2.3	1.9
50%	1.8	1.9	2.3	3.3	3.3	4.0	2.0	1.7	1.8	2.8	2.1	1.9
60%	1.8	1.6	2.1	2.7	2.3	3.3	1.9	1.7	1.7	2.5	2.0	1.8
70%	1.8	1.6	1.9	2.4	2.0	2.5	1.9	1.6	1.7	2.4	1.9	1.7
80%	1.7	1.5	1.7	2.1	2.0	1.9	1.8	1.5	1.5	2.3	1.8	1.7
90%	1.5	1.4	1.5	1.8	1.6	1.7	1.6	1.3	1.5	2.0	1.7	1.6
Long Term												
Full Simulation Period[a]	1.9	2.5	3.6	4.5	5.0	5.1	3.2	2.1	1.9	2.7	2.1	2.3
Water Year Types[b]												
Wet (31%)	2.2	4.4	8.3	7.5	9.6	9.2	6.1	3.2	2.6	2.9	2.4	3.8
Above Normal (25%)	1.7	1.7	2.7	9.0	9.0	7.7	3.5	2.1	1.9	3.1	2.4	2.6
Below Normal (6%)	2.1	2.1	1.9	3.5	4.2	3.9	2.2	1.8	2.0	2.3	2.1	1.9
Dry (13%)	1.8	2.1	2.2	2.3	2.6	3.7	2.1	1.9	1.8	2.8	2.2	1.8
Critical (25%)	1.8	1.7	1.8	2.5	1.8	2.2	1.7	1.4	1.5	2.3	1.7	1.7

Alternative 5 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.5	4.1	8.8	8.4	10.1	9.3	6.2	2.9	2.6	3.3	2.6	3.5
20%	2.3	3.0	2.8	7.4	9.3	7.7	3.0	2.3	2.4	3.1	2.5	3.2
30%	2.2	2.2	2.8	5.0	5.4	5.6	2.4	2.1	2.3	2.9	2.5	2.5
40%	2.1	2.0	2.6	3.2	3.6	3.7	2.2	1.9	2.2	2.8	2.3	2.2
50%	2.0	2.0	2.4	3.0	3.0	3.5	2.2	1.9	2.2	2.7	2.2	2.2
60%	2.0	1.9	2.4	2.6	2.3	2.9	2.1	1.9	2.1	2.6	2.2	2.1
70%	1.9	1.9	2.1	2.4	2.2	2.4	1.9	1.8	2.0	2.5	2.1	2.1
80%	1.9	1.8	2.0	2.1	2.1	2.0	1.9	1.7	1.9	2.5	2.0	2.0
90%	1.8	1.7	1.8	1.9	1.7	1.9	1.8	1.5	1.9	2.0	2.0	2.0
Long Term												
Full Simulation Period[a]	2.1	2.6	3.6	4.2	4.7	4.7	3.1	2.2	2.3	2.7	2.3	2.5
Water Year Types[b]												
Wet (31%)	2.2	4.4	7.8	6.7	8.9	8.4	5.8	3.1	2.9	2.9	2.5	3.5
Above Normal (25%)	2.0	1.9	2.7	8.2	8.2	6.7	3.0	2.0	2.3	2.9	2.3	2.5
Below Normal (6%)	2.0	1.9	2.1	3.2	3.6	3.4	2.2	1.9	2.4	2.5	2.0	1.9
Dry (13%)	2.0	2.1	2.3	2.3	2.5	3.3	2.2	2.1	2.2	2.8	2.4	2.0
Critical (25%)	2.2	1.9	2.1	2.4	2.0	2.2	1.9	1.6	1.9	2.4	2.1	2.1

Alternative 5 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.3	**-0.1**	**-0.6**	**-1.0**	**-0.7**	**-0.7**	**-0.6**	**-0.1**	0.4	0.0	0.1	**-0.4**
20%	0.3	**-0.1**	**-0.1**	**-0.9**	**-0.8**	**-0.9**	**-0.2**	0.0	0.3	**-0.2**	0.1	**0.0**
30%	0.3	**-0.1**	**0.0**	**-0.7**	**-0.9**	**-0.9**	**-0.2**	0.1	0.4	**-0.1**	0.1	**-0.1**
40%	0.2	**-0.1**	0.2	**-0.3**	**-0.6**	**-1.0**	0.0	**0.0**	0.4	**0.0**	**-0.1**	0.3
50%	0.2	0.1	0.1	**-0.3**	**-0.3**	**-0.5**	0.2	0.1	0.4	**0.0**	0.1	0.3
60%	0.2	0.3	0.3	**-0.1**	**-0.1**	**-0.4**	0.2	0.2	0.4	0.1	0.1	0.3
70%	0.2	0.3	0.2	**0.0**	0.1	**-0.1**	0.1	0.2	0.4	0.1	0.1	0.4
80%	0.2	0.3	0.3	0.1	0.1	0.1	0.1	0.2	0.4	0.1	0.3	0.4
90%	0.4	0.3	0.3	0.1	0.1	0.2	0.2	0.2	0.4	0.1	0.3	0.3
Long Term												
Full Simulation Period[a]	0.2	0.1	0.0	**-0.3**	**-0.3**	**-0.4**	**-0.1**	0.1	0.3	0.0	0.2	0.1
Water Year Types[b]												
Wet (31%)	0.1	**0.0**	**-0.5**	**-0.8**	**-0.7**	**-0.7**	**-0.3**	**-0.1**	0.3	0.0	0.1	**-0.3**
Above Normal (25%)	0.3	0.2	0.0	**-0.8**	**-0.8**	**-1.0**	**-0.5**	**-0.1**	0.4	**-0.1**	**-0.1**	**-0.1**
Below Normal (6%)	**0.0**	**-0.2**	0.2	**-0.2**	**-0.6**	**-0.5**	0.0	0.1	0.3	0.2	**0.0**	**0.0**
Dry (13%)	0.1	**0.0**	0.1	**0.0**	**-0.1**	**-0.4**	0.1	0.2	0.4	**0.0**	0.2	0.3
Critical (25%)	0.5	0.2	0.2	**0.0**	0.1	0.0	0.2	0.2	0.4	0.2	0.4	0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-30-2-22. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.2	4.2	9.4	9.4	10.8	10.0	6.8	3.0	2.2	3.3	2.5	3.9
20%	2.1	3.2	2.9	8.3	10.1	8.6	3.2	2.2	2.0	3.2	2.4	3.2
30%	1.9	2.4	2.8	5.7	6.3	6.6	2.5	2.1	1.9	3.1	2.4	2.6
40%	1.9	2.1	2.5	3.5	4.2	4.7	2.2	1.9	1.8	2.9	2.3	1.9
50%	1.8	1.9	2.3	3.3	3.3	4.0	2.0	1.7	1.8	2.8	2.1	1.9
60%	1.8	1.6	2.1	2.7	2.3	3.3	1.9	1.7	1.7	2.5	2.0	1.8
70%	1.8	1.6	1.9	2.4	2.0	2.5	1.9	1.6	1.7	2.4	1.9	1.7
80%	1.7	1.5	1.7	2.1	2.0	1.9	1.8	1.5	1.5	2.3	1.8	1.7
90%	1.5	1.4	1.5	1.8	1.6	1.7	1.6	1.3	1.5	2.0	1.7	1.6
Long Term Full Simulation Period[a]	1.9	2.5	3.6	4.5	5.0	5.1	3.2	2.1	1.9	2.7	2.1	2.3
Water Year Types[b]												
Wet (31%)	2.2	4.4	8.3	7.5	9.6	9.2	6.1	3.2	2.6	2.9	2.4	3.8
Above Normal (25%)	1.7	1.7	2.7	9.0	9.0	7.7	3.5	2.1	1.9	3.1	2.4	2.6
Below Normal (6%)	2.1	2.1	1.9	3.5	4.2	3.9	2.2	1.8	2.0	2.3	2.1	1.9
Dry (13%)	1.8	2.1	2.2	2.3	2.6	3.7	2.1	1.9	1.8	2.8	2.2	1.8
Critical (25%)	1.8	1.7	1.8	2.5	1.8	2.2	1.7	1.4	1.5	2.3	1.7	1.7

Alternative 6A,6B,6C (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.8	3.5	7.9	7.1	8.8	8.0	5.0	2.3	2.2	2.1	2.0	2.3
20%	1.7	2.7	2.6	6.2	8.0	6.5	2.8	2.1	2.2	2.0	2.0	2.2
30%	1.7	2.0	2.5	4.3	4.4	4.6	2.2	2.1	2.1	1.8	1.9	1.9
40%	1.6	1.7	2.2	2.7	3.2	3.0	2.1	2.1	2.0	1.8	1.9	1.8
50%	1.6	1.6	2.1	2.5	2.6	2.8	2.0	1.9	2.0	1.7	1.8	1.8
60%	1.5	1.6	2.0	2.2	2.4	2.6	2.0	1.8	2.0	1.7	1.7	1.7
70%	1.5	1.6	1.8	2.0	1.9	2.2	1.9	1.8	1.9	1.6	1.7	1.7
80%	1.4	1.4	1.7	1.8	1.9	1.8	1.9	1.7	1.9	1.6	1.6	1.6
90%	1.4	1.4	1.6	1.7	1.6	1.7	1.8	1.5	1.9	1.6	1.6	1.6
Long Term Full Simulation Period[a]	1.6	2.1	3.3	3.6	4.1	4.0	2.8	2.0	2.1	1.8	1.8	1.9
Water Year Types[b]												
Wet (31%)	1.7	3.6	7.1	5.6	7.7	7.3	5.0	2.6	2.3	2.1	1.9	2.4
Above Normal (25%)	1.6	1.4	2.4	7.0	6.9	5.6	2.5	2.1	2.0	1.7	1.7	1.6
Below Normal (6%)	1.6	1.4	1.7	2.9	3.2	2.7	2.1	1.9	2.2	1.5	1.5	1.5
Dry (13%)	1.5	1.8	2.0	2.0	2.1	2.9	2.2	2.0	2.1	1.6	1.7	1.7
Critical (25%)	1.6	1.7	1.9	1.9	1.9	1.9	1.8	1.6	1.9	1.8	1.9	1.8

Alternative 6A,6B,6C (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-0.4**	**-0.6**	**-1.5**	**-2.3**	**-2.0**	**-2.0**	**-1.8**	**-0.7**	0.0	**-1.2**	**-0.5**	**-1.6**
20%	**-0.3**	**-0.5**	**-0.3**	**-2.0**	**-2.1**	**-2.1**	**-0.5**	**-0.1**	0.1	**-1.3**	**-0.5**	**-1.0**
30%	**-0.2**	**-0.4**	**-0.3**	**-1.4**	**-1.9**	**-1.9**	**-0.3**	0.0	0.2	**-1.3**	**-0.4**	**-0.7**
40%	**-0.3**	**-0.4**	**-0.2**	**-0.8**	**-1.1**	**-1.6**	**0.0**	0.1	0.2	**-1.1**	**-0.5**	**-0.1**
50%	**-0.3**	**-0.3**	**-0.2**	**-0.7**	**-0.7**	**-1.2**	0.1	0.2	0.2	**-1.0**	**-0.4**	**-0.1**
60%	**-0.3**	**-0.1**	**-0.1**	**-0.5**	0.1	**-0.7**	0.1	0.1	0.2	**-0.8**	**-0.3**	**-0.1**
70%	**-0.3**	**0.0**	**-0.1**	**-0.4**	**-0.1**	**-0.4**	0.1	0.2	0.3	**-0.8**	**-0.2**	**0.0**
80%	**-0.3**	**0.0**	0.0	**-0.3**	**-0.1**	**-0.1**	0.1	0.2	0.4	**-0.7**	**-0.2**	**0.0**
90%	**-0.1**	0.0	0.1	**-0.1**	0.0	**-0.1**	0.2	0.2	0.4	**-0.4**	**-0.1**	**-0.1**
Long Term Full Simulation Period[a]	**-0.3**	**-0.4**	**-0.4**	**-1.0**	**-0.9**	**-1.1**	**-0.4**	**-0.1**	0.1	**-0.9**	**-0.3**	**-0.5**
Water Year Types[b]												
Wet (31%)	**-0.5**	**-0.8**	**-1.2**	**-1.8**	**-1.9**	**-1.9**	**-1.1**	**-0.6**	**-0.3**	**-0.8**	**-0.5**	**-1.4**
Above Normal (25%)	**-0.1**	**-0.3**	**-0.3**	**-1.9**	**-2.1**	**-2.1**	**-1.0**	**0.0**	0.1	**-1.3**	**-0.7**	**-1.0**
Below Normal (6%)	**-0.5**	**-0.6**	**-0.2**	**-0.6**	**-1.1**	**-1.1**	**0.0**	0.1	0.2	**-0.8**	**-0.5**	**-0.5**
Dry (13%)	**-0.3**	**-0.3**	**-0.1**	**-0.3**	**-0.5**	**-0.8**	0.1	0.0	0.3	**-1.2**	**-0.5**	**0.0**
Critical (25%)	**-0.2**	**0.0**	0.0	**-0.5**	0.1	**-0.3**	0.1	0.2	0.3	**-0.5**	0.1	0.2

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-30-2-23. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.2	4.2	9.4	9.4	10.8	10.0	6.8	3.0	2.2	3.3	2.5	3.9
20%	2.1	3.2	2.9	8.3	10.1	8.6	3.2	2.2	2.0	3.2	2.4	3.2
30%	1.9	2.4	2.8	5.7	6.3	6.6	2.5	2.1	1.9	3.1	2.4	2.6
40%	1.9	2.1	2.5	3.5	4.2	4.7	2.2	1.9	1.8	2.9	2.3	1.9
50%	1.8	1.9	2.3	3.3	3.3	4.0	2.0	1.7	1.8	2.8	2.1	1.9
60%	1.8	1.6	2.1	2.7	2.3	3.3	1.9	1.7	1.7	2.5	2.0	1.8
70%	1.8	1.6	1.9	2.4	2.0	2.5	1.9	1.6	1.7	2.4	1.9	1.7
80%	1.7	1.5	1.7	2.1	2.0	1.9	1.8	1.5	1.5	2.3	1.8	1.7
90%	1.5	1.4	1.5	1.8	1.6	1.7	1.6	1.3	1.5	2.0	1.7	1.6
Long Term												
Full Simulation Period[a]	1.9	2.5	3.6	4.5	5.0	5.1	3.2	2.1	1.9	2.7	2.1	2.3
Water Year Types[b]												
Wet (31%)	2.2	4.4	8.3	7.5	9.6	9.2	6.1	3.2	2.6	2.9	2.4	3.8
Above Normal (25%)	1.7	1.7	2.7	9.0	9.0	7.7	3.5	2.1	1.9	3.1	2.4	2.6
Below Normal (6%)	2.1	2.1	1.9	3.5	4.2	3.9	2.2	1.8	2.0	2.3	2.1	1.9
Dry (13%)	1.8	2.1	2.2	2.3	2.6	3.7	2.1	1.9	1.8	2.8	2.2	1.8
Critical (25%)	1.8	1.7	1.8	2.5	1.8	2.2	1.7	1.4	1.5	2.3	1.7	1.7

Alternative 7 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.0	3.7	8.4	7.6	9.4	8.6	5.5	2.6	2.2	3.2	2.6	3.1
20%	1.8	2.8	2.6	6.8	8.5	6.9	2.9	2.1	2.2	2.9	2.5	2.9
30%	1.8	2.0	2.6	4.5	4.7	4.8	2.3	2.1	2.1	2.9	2.4	2.2
40%	1.7	1.8	2.3	2.8	3.2	3.2	2.1	2.0	2.1	2.9	2.4	2.2
50%	1.7	1.7	2.2	2.7	2.8	3.0	2.1	1.9	2.1	2.7	2.4	2.1
60%	1.7	1.6	2.0	2.4	2.6	2.8	2.0	1.8	2.1	2.6	2.3	2.1
70%	1.6	1.6	1.9	2.1	2.0	2.4	1.9	1.8	2.0	2.5	2.3	2.1
80%	1.6	1.6	1.8	1.9	2.0	1.9	1.9	1.7	2.0	2.3	2.2	2.1
90%	1.6	1.5	1.7	1.7	1.6	1.7	1.9	1.6	1.9	2.2	2.2	2.0
Long Term												
Full Simulation Period[a]	1.7	2.3	3.4	3.8	4.4	4.3	3.0	2.1	2.2	2.7	2.4	2.3
Water Year Types[b]												
Wet (31%)	1.9	3.9	7.5	6.0	8.2	7.7	5.4	2.8	2.5	3.0	2.5	3.1
Above Normal (25%)	1.7	1.7	2.5	7.6	7.4	5.9	2.6	2.0	1.9	2.8	2.2	2.2
Below Normal (6%)	1.7	1.6	1.7	3.0	3.2	3.1	2.3	1.9	2.2	2.6	2.4	2.2
Dry (13%)	1.7	1.9	2.1	2.1	2.3	3.1	2.2	2.0	2.1	3.0	2.5	2.0
Critical (25%)	1.8	1.7	1.9	2.1	2.0	2.0	1.8	1.7	2.0	2.3	2.3	2.1

Alternative 7 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-0.2**	**-0.4**	**-1.0**	**-1.8**	**-1.4**	**-1.4**	**-1.3**	**-0.4**	0.0	**-0.1**	0.2	**-0.8**
20%	**-0.3**	**-0.3**	**-0.3**	**-1.4**	**-1.6**	**-1.7**	**-0.3**	**-0.1**	0.2	**-0.3**	0.0	**-0.3**
30%	**-0.2**	**-0.3**	**-0.2**	**-1.2**	**-1.6**	**-1.7**	**-0.3**	0.0	0.2	**-0.2**	0.0	**-0.4**
40%	**-0.2**	**-0.3**	**-0.1**	**-0.6**	**-1.0**	**-1.5**	**0.0**	0.1	0.3	**0.0**	0.1	0.3
50%	**-0.1**	**-0.1**	**-0.1**	**-0.6**	**-0.5**	**-1.0**	0.1	0.1	0.3	**-0.1**	0.2	0.3
60%	**-0.1**	**0.0**	**-0.1**	**-0.3**	0.3	**-0.5**	0.1	0.1	0.3	0.1	0.3	0.3
70%	**-0.1**	0.0	**0.0**	**-0.4**	0.0	**-0.2**	0.1	0.2	0.4	0.1	0.4	0.4
80%	**-0.1**	0.1	0.1	**-0.2**	0.0	0.0	0.1	0.3	0.5	**0.0**	0.4	0.4
90%	0.1	0.1	0.2	**0.0**	0.1	0.0	0.2	0.3	0.4	0.2	0.5	0.4
Long Term												
Full Simulation Period[a]	**-0.1**	**-0.2**	**-0.2**	**-0.7**	**-0.7**	**-0.8**	**-0.2**	**0.0**	0.2	0.0	0.3	**0.0**
Water Year Types[b]												
Wet (31%)	**-0.3**	**-0.5**	**-0.8**	**-1.5**	**-1.4**	**-1.4**	**-0.7**	**-0.4**	**-0.2**	0.0	0.1	**-0.7**
Above Normal (25%)	0.0	**0.0**	**-0.2**	**-1.3**	**-1.6**	**-1.8**	**-0.8**	**-0.1**	0.1	**-0.3**	**-0.2**	**-0.5**
Below Normal (6%)	**-0.4**	**-0.5**	**-0.2**	**-0.4**	**-1.0**	**-0.7**	0.1	0.1	0.2	0.3	0.3	0.3
Dry (13%)	**-0.1**	**-0.2**	**-0.1**	**-0.2**	**-0.3**	**-0.6**	0.1	0.1	0.3	0.1	0.2	0.2
Critical (25%)	**0.0**	0.0	0.1	**-0.4**	0.1	**-0.2**	0.1	0.3	0.5	0.0	0.5	0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-30-2-24. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.2	4.2	9.4	9.4	10.8	10.0	6.8	3.0	2.2	3.3	2.5	3.9
20%	2.1	3.2	2.9	8.3	10.1	8.6	3.2	2.2	2.0	3.2	2.4	3.2
30%	1.9	2.4	2.8	5.7	6.3	6.6	2.5	2.1	1.9	3.1	2.4	2.6
40%	1.9	2.1	2.5	3.5	4.2	4.7	2.2	1.9	1.8	2.9	2.3	1.9
50%	1.8	1.9	2.3	3.3	3.3	4.0	2.0	1.7	1.8	2.8	2.1	1.9
60%	1.8	1.6	2.1	2.7	2.3	3.3	1.9	1.7	1.7	2.5	2.0	1.8
70%	1.8	1.6	1.9	2.4	2.0	2.5	1.9	1.6	1.7	2.4	1.9	1.7
80%	1.7	1.5	1.7	2.1	2.0	1.9	1.8	1.5	1.5	2.3	1.8	1.7
90%	1.5	1.4	1.5	1.8	1.6	1.7	1.6	1.3	1.5	2.0	1.7	1.6
Long Term												
Full Simulation Period[a]	1.9	2.5	3.6	4.5	5.0	5.1	3.2	2.1	1.9	2.7	2.1	2.3
Water Year Types[b]												
Wet (31%)	2.2	4.4	8.3	7.5	9.6	9.2	6.1	3.2	2.6	2.9	2.4	3.8
Above Normal (25%)	1.7	1.7	2.7	9.0	9.0	7.7	3.5	2.1	1.9	3.1	2.4	2.6
Below Normal (6%)	2.1	2.1	1.9	3.5	4.2	3.9	2.2	1.8	2.0	2.3	2.1	1.9
Dry (13%)	1.8	2.1	2.2	2.3	2.6	3.7	2.1	1.9	1.8	2.8	2.2	1.8
Critical (25%)	1.8	1.7	1.8	2.5	1.8	2.2	1.7	1.4	1.5	2.3	1.7	1.7

Alternative 8 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.0	4.0	8.5	7.7	9.3	8.6	5.8	3.0	2.2	2.6	2.4	3.1
20%	2.0	2.9	2.7	6.8	8.5	6.8	3.4	2.3	2.1	2.4	2.4	2.9
30%	1.9	2.1	2.6	4.6	5.2	5.4	2.5	2.2	2.1	2.3	2.4	2.3
40%	1.9	1.9	2.3	3.2	3.2	3.5	2.5	2.0	2.1	2.3	2.3	2.1
50%	1.8	1.9	2.2	2.9	3.0	3.3	2.4	2.0	2.1	2.3	2.3	2.1
60%	1.8	1.7	2.0	2.5	2.8	2.9	2.3	2.0	2.1	2.2	2.3	2.1
70%	1.7	1.7	1.9	2.1	2.2	2.6	2.2	1.9	2.1	2.2	2.2	2.0
80%	1.6	1.6	1.8	1.8	2.0	2.2	2.1	1.9	2.0	2.1	2.2	2.0
90%	1.6	1.6	1.7	1.8	1.7	2.0	2.0	1.7	1.9	2.1	2.1	2.0
Long Term												
Full Simulation Period[a]	1.8	2.4	3.4	3.9	4.5	4.5	3.2	2.3	2.2	2.3	2.3	2.3
Water Year Types[b]												
Wet (31%)	1.9	4.1	7.5	6.2	8.1	7.7	5.5	3.2	2.6	2.5	2.4	3.1
Above Normal (25%)	1.7	1.6	2.5	7.8	7.5	6.0	3.0	2.2	1.9	2.2	2.3	2.3
Below Normal (6%)	1.9	1.7	1.7	3.2	4.0	3.3	2.5	2.3	2.1	2.1	2.2	2.0
Dry (13%)	1.8	2.0	2.1	2.2	2.5	3.5	2.6	2.1	2.1	2.3	2.3	2.0
Critical (25%)	1.8	1.9	1.9	2.1	2.0	2.2	2.0	1.8	2.0	2.2	2.2	2.1

Alternative 8 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-0.1**	**-0.2**	**-1.0**	**-1.7**	**-1.5**	**-1.4**	**-1.0**	**0.0**	**0.0**	**-0.7**	**0.0**	**-0.8**
20%	**-0.1**	**-0.3**	**-0.3**	**-1.5**	**-1.6**	**-1.8**	0.2	0.1	0.1	**-0.9**	**-0.1**	**-0.3**
30%	**0.0**	**-0.3**	**-0.2**	**-1.1**	**-1.1**	**-1.2**	**0.0**	0.1	0.2	**-0.7**	**0.0**	**-0.3**
40%	**-0.1**	**-0.2**	**-0.1**	**-0.2**	**-1.0**	**-1.2**	0.3	0.1	0.3	**-0.6**	**0.0**	0.2
50%	**0.0**	**0.0**	**-0.1**	**-0.3**	**-0.3**	**-0.7**	0.4	0.3	0.3	**-0.5**	0.2	0.2
60%	**0.0**	0.1	**-0.1**	**-0.2**	0.4	**-0.4**	0.4	0.3	0.4	**-0.3**	0.2	0.2
70%	**0.0**	0.1	**0.0**	**-0.3**	0.2	0.0	0.3	0.3	0.4	**-0.2**	0.2	0.3
80%	**0.0**	0.1	0.1	**-0.2**	0.0	0.3	0.3	0.4	0.5	**-0.2**	0.4	0.3
90%	0.2	0.2	0.2	0.0	0.1	0.3	0.4	0.4	0.4	0.1	0.4	0.3
Long Term												
Full Simulation Period[a]	**-0.1**	**-0.1**	**-0.2**	**-0.6**	**-0.5**	**-0.6**	0.0	0.2	0.2	**-0.4**	0.2	**0.0**
Water Year Types[b]												
Wet (31%)	**-0.3**	**-0.3**	**-0.8**	**-1.3**	**-1.5**	**-1.4**	**-0.6**	0.0	**0.0**	**-0.4**	0.1	**-0.7**
Above Normal (25%)	0.1	**-0.1**	**-0.2**	**-1.2**	**-1.5**	**-1.7**	**-0.5**	0.1	0.1	**-0.8**	**0.0**	**-0.3**
Below Normal (6%)	**-0.2**	**-0.4**	**-0.2**	**-0.2**	**-0.3**	**-0.6**	0.3	0.5	0.1	**-0.2**	0.1	0.1
Dry (13%)	**0.0**	**-0.1**	**-0.1**	**-0.1**	**-0.1**	**-0.2**	0.5	0.2	0.3	**-0.6**	0.0	0.2
Critical (25%)	0.1	0.2	0.1	**-0.3**	0.2	0.1	0.2	0.4	0.5	**0.0**	0.5	0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-30-2-25. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.2	4.2	9.4	9.4	10.8	10.0	6.8	3.0	2.2	3.3	2.5	3.9
20%	2.1	3.2	2.9	8.3	10.1	8.6	3.2	2.2	2.0	3.2	2.4	3.2
30%	1.9	2.4	2.8	5.7	6.3	6.6	2.5	2.1	1.9	3.1	2.4	2.6
40%	1.9	2.1	2.5	3.5	4.2	4.7	2.2	1.9	1.8	2.9	2.3	1.9
50%	1.8	1.9	2.3	3.3	3.3	4.0	2.0	1.7	1.8	2.8	2.1	1.9
60%	1.8	1.6	2.1	2.7	2.3	3.3	1.9	1.7	1.7	2.5	2.0	1.8
70%	1.8	1.6	1.9	2.4	2.0	2.5	1.9	1.6	1.7	2.4	1.9	1.7
80%	1.7	1.5	1.7	2.1	2.0	1.9	1.8	1.5	1.5	2.3	1.8	1.7
90%	1.5	1.4	1.5	1.8	1.6	1.7	1.6	1.3	1.5	2.0	1.7	1.6
Long Term												
Full Simulation Period[a]	1.9	2.5	3.6	4.5	5.0	5.1	3.2	2.1	1.9	2.7	2.1	2.3
Water Year Types[b]												
Wet (31%)	2.2	4.4	8.3	7.5	9.6	9.2	6.1	3.2	2.6	2.9	2.4	3.8
Above Normal (25%)	1.7	1.7	2.7	9.0	9.0	7.7	3.5	2.1	1.9	3.1	2.4	2.6
Below Normal (6%)	2.1	2.1	1.9	3.5	4.2	3.9	2.2	1.8	2.0	2.3	2.1	1.9
Dry (13%)	1.8	2.1	2.2	2.3	2.6	3.7	2.1	1.9	1.8	2.8	2.2	1.8
Critical (25%)	1.8	1.7	1.8	2.5	1.8	2.2	1.7	1.4	1.5	2.3	1.7	1.7

Alternative 9 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.5	4.3	9.3	9.1	10.8	10.0	6.5	3.2	2.7	3.1	2.7	4.2
20%	2.4	3.3	2.9	8.0	9.9	8.3	3.1	2.5	2.3	3.0	2.7	3.6
30%	2.3	2.6	2.8	5.3	5.9	6.0	2.6	2.4	2.3	3.0	2.7	2.9
40%	2.2	2.2	2.6	3.3	4.1	4.1	2.4	2.3	2.3	3.0	2.6	2.3
50%	2.0	2.1	2.5	3.2	3.2	3.8	2.3	2.2	2.3	2.9	2.6	2.2
60%	2.0	1.9	2.4	2.7	2.4	3.1	2.2	2.1	2.2	2.7	2.4	2.2
70%	2.0	1.9	2.2	2.3	2.2	2.6	2.1	2.0	2.1	2.6	2.3	2.1
80%	1.9	1.8	2.2	2.1	2.2	2.1	2.1	1.9	2.1	2.3	2.3	2.0
90%	1.8	1.7	2.0	2.0	1.9	2.0	2.0	1.7	2.0	2.3	2.1	2.0
Long Term												
Full Simulation Period[a]	2.1	2.7	3.8	4.5	5.0	5.0	3.3	2.5	2.4	2.8	2.5	2.7
Water Year Types[b]												
Wet (31%)	2.5	4.6	8.3	7.2	9.5	9.0	6.1	3.4	3.0	3.0	2.7	4.1
Above Normal (25%)	1.9	2.0	2.7	8.9	8.8	7.2	3.3	2.3	2.2	3.1	2.7	2.9
Below Normal (6%)	2.3	2.4	2.2	3.3	4.1	3.7	2.4	2.0	2.3	2.6	2.4	2.3
Dry (13%)	2.1	2.3	2.4	2.4	2.6	3.5	2.4	2.4	2.3	2.8	2.5	2.1
Critical (25%)	2.0	2.1	2.2	2.4	2.1	2.3	2.0	1.9	2.0	2.5	2.2	2.1

Alternative 9 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.3	0.2	**-0.1**	**-0.3**	**0.0**	**0.0**	**-0.3**	0.2	0.4	**-0.1**	0.2	0.3
20%	0.3	0.1	**0.0**	**-0.2**	**-0.2**	**-0.3**	**-0.1**	0.3	0.3	**-0.2**	0.2	0.4
30%	0.3	0.2	0.0	**-0.4**	**-0.4**	**-0.6**	0.1	0.4	0.4	**-0.1**	0.3	0.3
40%	0.3	0.1	0.1	**-0.1**	**-0.2**	**-0.6**	0.2	0.3	0.5	0.1	0.3	0.4
50%	0.2	0.2	0.1	**-0.1**	**-0.1**	**-0.2**	0.3	0.4	0.5	0.1	0.5	0.3
60%	0.2	0.3	0.3	0.0	0.0	**-0.2**	0.2	0.4	0.5	0.1	0.4	0.3
70%	0.2	0.3	0.3	**-0.1**	0.2	0.0	0.2	0.4	0.4	0.2	0.4	0.4
80%	0.2	0.4	0.5	0.0	0.2	0.2	0.3	0.4	0.5	**0.0**	0.5	0.4
90%	0.3	0.3	0.5	0.2	0.3	0.3	0.3	0.5	0.5	0.3	0.4	0.4
Long Term												
Full Simulation Period[a]	0.3	0.2	0.2	**-0.1**	0.0	**-0.1**	0.1	0.4	0.4	0.1	0.3	0.3
Water Year Types[b]												
Wet (31%)	0.3	0.2	0.0	**-0.3**	**-0.1**	**-0.1**	0.0	0.2	0.4	0.1	0.3	0.3
Above Normal (25%)	0.2	0.3	0.0	**-0.1**	**-0.2**	**-0.4**	**-0.1**	0.2	0.3	0.1	0.3	0.3
Below Normal (6%)	0.2	0.3	0.2	**-0.1**	**-0.2**	**-0.1**	0.2	0.3	0.3	0.3	0.3	0.4
Dry (13%)	0.3	0.1	0.2	0.1	0.0	**-0.2**	0.2	0.5	0.5	**0.0**	0.3	0.3
Critical (25%)	0.3	0.3	0.4	**0.0**	0.3	0.1	0.3	0.4	0.5	0.2	0.4	0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

C.31. Sacramento River downstream of Georgiana Slough

Table C-31-1-1. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.6	5.2	7.4	7.1	8.3	7.7	5.7	4.2	3.8	4.2	3.9	3.9
20%	3.3	4.5	4.0	6.3	7.5	6.5	3.7	3.5	3.6	4.0	3.9	3.5
30%	3.2	3.4	3.9	5.1	5.4	5.4	3.5	3.5	3.6	4.0	3.7	3.5
40%	3.2	3.3	3.8	4.2	4.6	4.4	3.3	3.4	3.5	3.9	3.7	3.4
50%	3.2	3.3	3.6	4.1	4.0	4.2	3.2	3.3	3.4	3.9	3.6	3.4
60%	3.2	3.3	3.5	3.8	3.5	4.1	3.2	3.1	3.4	3.9	3.6	3.3
70%	3.1	3.2	3.5	3.6	3.4	3.5	3.1	3.1	3.3	3.8	3.6	3.3
80%	3.0	3.0	3.3	3.3	3.3	3.1	3.0	3.1	3.3	3.8	3.5	3.3
90%	3.0	2.9	3.1	3.2	3.0	3.0	2.9	2.8	3.2	3.6	3.4	3.2
Long Term												
Full Simulation Period[a]	3.2	3.7	4.3	4.7	4.9	4.8	3.8	3.5	3.6	3.9	3.7	3.5
Water Year Types[b]												
Wet (31%)	3.5	5.1	6.8	6.1	7.4	7.3	5.4	4.5	4.4	4.2	3.9	4.0
Above Normal (25%)	3.0	3.1	3.7	7.1	6.9	6.0	3.9	3.6	3.4	3.7	3.6	3.4
Below Normal (6%)	3.2	3.2	3.1	4.2	4.8	4.2	3.2	3.4	3.3	3.6	3.5	3.3
Dry (13%)	3.2	3.4	3.6	3.6	3.5	4.1	3.2	3.3	3.6	3.9	3.8	3.4
Critical (25%)	3.2	3.2	3.5	3.5	3.2	3.2	3.0	2.9	3.3	3.8	3.5	3.3

No Action Alternative (LLT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.9	5.9	8.4	8.3	9.2	8.5	6.8	5.4	5.3	5.6	5.4	5.7
20%	4.8	5.3	5.3	7.8	8.5	7.8	5.1	5.0	5.1	5.6	5.3	5.4
30%	4.7	5.0	5.3	6.5	6.7	6.6	4.9	4.9	5.0	5.5	5.2	5.0
40%	4.7	4.8	5.3	5.5	5.7	5.5	4.7	4.8	5.0	5.5	5.2	4.9
50%	4.7	4.7	5.0	5.5	5.3	5.4	4.6	4.6	4.9	5.5	5.1	4.8
60%	4.6	4.7	4.9	5.2	4.9	5.1	4.6	4.6	4.9	5.4	5.1	4.8
70%	4.6	4.6	4.8	5.1	4.8	4.8	4.5	4.6	4.8	5.4	5.0	4.8
80%	4.5	4.5	4.7	5.0	4.7	4.5	4.5	4.5	4.8	5.2	4.9	4.8
90%	4.5	4.4	4.7	4.6	4.5	4.4	4.3	4.4	4.8	5.1	4.8	4.6
Long Term												
Full Simulation Period[a]	4.7	5.0	5.7	6.0	6.2	6.0	5.1	4.8	5.0	5.4	5.1	5.0
Water Year Types[b]												
Wet (31%)	4.9	6.0	7.9	7.4	8.5	8.1	6.6	5.3	5.4	5.6	5.4	5.7
Above Normal (25%)	4.5	4.6	5.1	8.2	8.2	7.2	5.1	4.8	4.8	5.4	5.1	5.0
Below Normal (6%)	4.7	4.8	4.8	5.6	5.7	5.3	4.6	4.6	4.9	5.0	4.9	4.8
Dry (13%)	4.7	4.8	5.0	5.0	4.9	5.3	4.6	4.8	5.0	5.5	5.2	4.8
Critical (25%)	4.7	4.7	4.8	5.0	4.6	4.5	4.4	4.5	4.8	5.2	4.9	4.7

No Action Alternative (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.3	0.7	1.0	1.2	0.9	0.8	1.1	1.2	1.4	1.5	1.5	1.8
20%	1.5	0.8	1.3	1.5	1.0	1.2	1.4	1.4	1.5	1.6	1.4	1.8
30%	1.5	1.6	1.4	1.3	1.3	1.1	1.4	1.4	1.4	1.6	1.5	1.5
40%	1.5	1.5	1.4	1.3	1.1	1.1	1.4	1.3	1.4	1.6	1.5	1.4
50%	1.5	1.5	1.4	1.4	1.3	1.2	1.4	1.3	1.4	1.6	1.5	1.4
60%	1.4	1.4	1.4	1.4	1.4	1.0	1.4	1.4	1.5	1.5	1.5	1.5
70%	1.5	1.5	1.3	1.5	1.4	1.3	1.4	1.4	1.5	1.6	1.4	1.5
80%	1.5	1.5	1.4	1.7	1.4	1.4	1.4	1.5	1.5	1.5	1.4	1.5
90%	1.5	1.5	1.6	1.4	1.4	1.4	1.4	1.5	1.5	1.5	1.4	1.5
Long Term												
Full Simulation Period[a]	1.5	1.3	1.3	1.4	1.3	1.2	1.3	1.3	1.4	1.5	1.4	1.5
Water Year Types[b]												
Wet (31%)	1.4	0.9	1.1	1.3	1.0	0.8	1.2	0.8	1.0	1.4	1.5	1.7
Above Normal (25%)	1.5	1.4	1.5	1.1	1.3	1.2	1.2	1.2	1.4	1.6	1.6	1.7
Below Normal (6%)	1.5	1.7	1.7	1.4	0.9	1.2	1.4	1.2	1.5	1.4	1.4	1.5
Dry (13%)	1.5	1.4	1.4	1.4	1.4	1.2	1.4	1.5	1.5	1.5	1.4	1.4
Critical (25%)	1.5	1.5	1.4	1.5	1.4	1.4	1.4	1.5	1.5	1.4	1.4	1.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

Table C-31-1-2. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.6	5.2	7.4	7.1	8.3	7.7	5.7	4.2	3.8	4.2	3.9	3.9
20%	3.3	4.5	4.0	6.3	7.5	6.5	3.7	3.5	3.6	4.0	3.9	3.5
30%	3.2	3.4	3.9	5.1	5.4	5.4	3.5	3.5	3.6	4.0	3.7	3.5
40%	3.2	3.3	3.8	4.2	4.6	4.4	3.3	3.4	3.5	3.9	3.7	3.4
50%	3.2	3.3	3.6	4.1	4.0	4.2	3.2	3.3	3.4	3.9	3.6	3.4
60%	3.2	3.3	3.5	3.8	3.5	4.1	3.2	3.1	3.4	3.9	3.6	3.3
70%	3.1	3.2	3.5	3.6	3.4	3.5	3.1	3.1	3.3	3.8	3.6	3.3
80%	3.0	3.0	3.3	3.3	3.3	3.1	3.0	3.1	3.3	3.8	3.5	3.3
90%	3.0	2.9	3.1	3.2	3.0	3.0	2.9	2.8	3.2	3.6	3.4	3.2
Long Term												
Full Simulation Period[a]	3.2	3.7	4.3	4.7	4.9	4.8	3.8	3.5	3.6	3.9	3.7	3.5
Water Year Types[b]												
Wet (31%)	3.5	5.1	6.8	6.1	7.4	7.3	5.4	4.5	4.4	4.2	3.9	4.0
Above Normal (25%)	3.0	3.1	3.7	7.1	6.9	6.0	3.9	3.6	3.4	3.7	3.6	3.4
Below Normal (6%)	3.2	3.2	3.1	4.2	4.8	4.2	3.2	3.4	3.3	3.6	3.5	3.3
Dry (13%)	3.2	3.4	3.6	3.6	3.5	4.1	3.2	3.3	3.6	3.9	3.8	3.4
Critical (25%)	3.2	3.2	3.5	3.5	3.2	3.2	3.0	2.9	3.3	3.8	3.5	3.3

Alternative 1A,1B,1C (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.5	5.2	7.2	6.8	8.1	7.4	5.8	4.7	4.7	5.0	4.6	4.6
20%	4.5	4.8	4.7	6.3	7.2	6.6	4.4	4.4	4.5	4.7	4.6	4.4
30%	4.4	4.4	4.7	5.6	5.4	5.5	4.3	4.3	4.5	4.7	4.6	4.4
40%	4.4	4.2	4.7	4.9	4.7	4.6	4.2	4.2	4.4	4.7	4.6	4.3
50%	4.2	4.2	4.5	4.7	4.6	4.4	4.1	4.2	4.3	4.7	4.5	4.3
60%	4.1	4.2	4.4	4.5	4.3	4.4	4.1	4.2	4.3	4.7	4.4	4.3
70%	4.1	4.1	4.3	4.4	4.3	4.2	4.1	4.1	4.2	4.5	4.4	4.3
80%	4.1	3.9	4.2	4.2	4.2	4.0	4.0	4.1	4.2	4.4	4.3	4.1
90%	4.0	3.9	4.1	4.1	4.1	3.9	3.9	3.9	4.2	4.3	4.2	4.1
Long Term												
Full Simulation Period[a]	4.2	4.4	5.0	5.2	5.4	5.2	4.5	4.3	4.4	4.6	4.5	4.4
Water Year Types[b]												
Wet (31%)	4.4	5.4	7.0	6.3	7.3	7.1	5.8	4.7	4.7	4.8	4.7	4.7
Above Normal (25%)	4.1	4.0	4.6	6.7	7.2	6.1	4.3	4.2	4.3	4.5	4.4	4.2
Below Normal (6%)	4.5	4.2	4.2	4.9	4.7	4.5	4.0	4.1	4.2	4.2	4.2	4.1
Dry (13%)	4.1	4.2	4.5	4.5	4.3	4.6	4.1	4.3	4.4	4.7	4.5	4.3
Critical (25%)	4.3	4.1	4.3	4.3	4.2	4.0	4.0	4.0	4.2	4.5	4.3	4.2

Alternative 1A,1B,1C (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.9	**0.0**	**-0.2**	**-0.3**	**-0.2**	**-0.3**	0.1	0.5	0.8	0.8	0.7	0.7
20%	1.2	0.3	0.7	0.0	**-0.3**	0.0	0.7	0.9	0.9	0.7	0.7	0.9
30%	1.1	0.9	0.8	0.5	0.1	0.1	0.8	0.8	0.9	0.7	0.9	0.9
40%	1.2	0.9	0.8	0.7	0.1	0.2	0.9	0.8	0.9	0.8	0.9	0.9
50%	1.0	0.9	0.8	0.6	0.6	0.2	0.9	0.8	0.9	0.8	0.9	0.9
60%	1.0	0.9	0.9	0.8	0.8	0.3	0.9	1.0	0.9	0.8	0.8	1.0
70%	1.0	0.9	0.9	0.9	0.9	0.8	0.9	1.0	0.9	0.7	0.8	1.0
80%	1.1	1.0	0.9	0.9	0.9	0.9	1.0	1.0	0.9	0.6	0.7	0.9
90%	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	0.9	0.7	0.8	1.0
Long Term												
Full Simulation Period[a]	1.0	0.7	0.7	0.5	0.5	0.4	0.7	0.8	0.7	0.7	0.8	0.9
Water Year Types[b]												
Wet (31%)	0.8	0.3	0.1	0.3	**-0.1**	**-0.2**	0.4	0.2	0.3	0.6	0.8	0.7
Above Normal (25%)	1.1	0.9	0.9	**-0.4**	0.2	0.1	0.4	0.7	0.8	0.8	0.8	0.9
Below Normal (6%)	1.2	1.0	1.1	0.7	**-0.1**	0.3	0.8	0.7	0.9	0.5	0.7	0.9
Dry (13%)	0.9	0.8	0.9	0.9	0.8	0.5	0.9	1.0	0.9	0.8	0.8	0.9
Critical (25%)	1.1	0.9	0.9	0.8	0.9	0.8	1.0	1.1	0.9	0.7	0.8	1.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-31-1-3. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.6	5.2	7.4	7.1	8.3	7.7	5.7	4.2	3.8	4.2	3.9	3.9
20%	3.3	4.5	4.0	6.3	7.5	6.5	3.7	3.5	3.6	4.0	3.9	3.5
30%	3.2	3.4	3.9	5.1	5.4	5.4	3.5	3.5	3.6	4.0	3.7	3.5
40%	3.2	3.3	3.8	4.2	4.6	4.4	3.3	3.4	3.5	3.9	3.7	3.4
50%	3.2	3.3	3.6	4.1	4.0	4.2	3.2	3.3	3.4	3.9	3.6	3.4
60%	3.2	3.3	3.5	3.8	3.5	4.1	3.2	3.1	3.4	3.9	3.6	3.3
70%	3.1	3.2	3.5	3.6	3.4	3.5	3.1	3.1	3.3	3.8	3.6	3.3
80%	3.0	3.0	3.3	3.3	3.3	3.1	3.0	3.1	3.3	3.8	3.5	3.3
90%	3.0	2.9	3.1	3.2	3.0	3.0	2.9	2.8	3.2	3.6	3.4	3.2
Long Term												
Full Simulation Period[a]	3.2	3.7	4.3	4.7	4.9	4.8	3.8	3.5	3.6	3.9	3.7	3.5
Water Year Types[b]												
Wet (31%)	3.5	5.1	6.8	6.1	7.4	7.3	5.4	4.5	4.4	4.2	3.9	4.0
Above Normal (25%)	3.0	3.1	3.7	7.1	6.9	6.0	3.9	3.6	3.4	3.7	3.6	3.4
Below Normal (6%)	3.2	3.2	3.1	4.2	4.8	4.2	3.2	3.4	3.3	3.6	3.5	3.3
Dry (13%)	3.2	3.4	3.6	3.6	3.5	4.1	3.2	3.3	3.6	3.9	3.8	3.4
Critical (25%)	3.2	3.2	3.5	3.5	3.2	3.2	3.0	2.9	3.3	3.8	3.5	3.3

Alternative 2A,2B,2C (LLT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	5.1	7.0	6.8	7.9	7.3	5.8	4.7	4.7	5.0	4.6	4.9
20%	4.3	4.7	4.7	6.3	7.2	6.5	4.4	4.4	4.5	4.8	4.6	4.8
30%	4.3	4.3	4.7	5.6	5.4	5.3	4.3	4.3	4.5	4.7	4.6	4.4
40%	4.2	4.2	4.7	4.7	4.6	4.6	4.2	4.2	4.4	4.7	4.5	4.3
50%	4.2	4.2	4.5	4.7	4.6	4.4	4.1	4.2	4.3	4.7	4.5	4.3
60%	4.1	4.2	4.4	4.5	4.3	4.4	4.0	4.1	4.3	4.6	4.4	4.3
70%	4.1	4.1	4.3	4.5	4.2	4.2	4.0	4.1	4.3	4.5	4.4	4.3
80%	4.0	4.0	4.2	4.4	4.2	4.0	4.0	4.1	4.2	4.5	4.3	4.2
90%	4.0	3.9	4.1	4.2	4.0	3.9	3.8	3.9	4.2	4.3	4.3	4.1
Long Term												
Full Simulation Period[a]	4.2	4.4	5.0	5.2	5.3	5.1	4.5	4.3	4.4	4.6	4.5	4.4
Water Year Types[b]												
Wet (31%)	4.4	5.3	6.9	6.3	7.3	7.0	5.8	4.7	4.7	4.8	4.7	5.0
Above Normal (25%)	4.0	4.0	4.6	6.6	6.9	6.1	4.3	4.3	4.2	4.6	4.4	4.3
Below Normal (6%)	4.1	4.1	4.2	4.9	4.6	4.4	4.1	4.1	4.3	4.2	4.2	4.1
Dry (13%)	4.1	4.2	4.4	4.4	4.3	4.4	4.1	4.3	4.5	4.7	4.5	4.3
Critical (25%)	4.2	4.1	4.4	4.4	4.1	4.0	3.9	4.0	4.2	4.5	4.3	4.2

Alternative 2A,2B,2C (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.8	**-0.1**	**-0.4**	**-0.3**	**-0.4**	**-0.4**	0.1	0.5	0.8	0.8	0.7	1.0
20%	1.0	0.2	0.7	0.0	**-0.3**	**0.0**	0.7	0.9	0.9	0.8	0.7	1.3
30%	1.0	0.9	0.8	0.5	0.0	**-0.1**	0.8	0.8	0.9	0.8	0.9	0.9
40%	1.0	0.9	0.9	0.6	0.1	0.2	0.9	0.8	0.9	0.8	0.9	0.9
50%	1.0	0.9	0.9	0.6	0.6	0.2	0.8	0.8	0.9	0.8	0.8	0.9
60%	1.0	0.9	0.9	0.8	0.8	0.3	0.8	1.0	0.9	0.8	0.8	1.0
70%	1.0	1.0	0.8	0.9	0.8	0.7	0.9	1.0	0.9	0.7	0.8	1.0
80%	1.0	1.0	0.8	1.1	0.9	0.9	1.0	1.0	0.9	0.7	0.8	1.0
90%	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	0.9	0.7	0.8	0.9
Long Term												
Full Simulation Period[a]	1.0	0.7	0.7	0.5	0.4	0.3	0.7	0.8	0.8	0.7	0.8	0.9
Water Year Types[b]												
Wet (31%)	0.8	0.2	0.1	0.2	**-0.2**	**-0.3**	0.4	0.1	0.3	0.6	0.8	1.0
Above Normal (25%)	1.1	0.9	0.9	**-0.5**	**0.0**	0.1	0.4	0.7	0.8	0.9	0.8	1.0
Below Normal (6%)	0.9	1.0	1.1	0.7	**-0.1**	0.3	0.8	0.7	0.9	0.6	0.7	0.8
Dry (13%)	1.0	0.8	0.9	0.8	0.8	0.3	0.9	1.0	0.9	0.8	0.7	0.9
Critical (25%)	1.0	0.9	0.9	0.9	0.9	0.8	1.0	1.1	0.9	0.7	0.8	1.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-31-1-4. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.6	5.2	7.4	7.1	8.3	7.7	5.7	4.2	3.8	4.2	3.9	3.9
20%	3.3	4.5	4.0	6.3	7.5	6.5	3.7	3.5	3.6	4.0	3.9	3.5
30%	3.2	3.4	3.9	5.1	5.4	5.4	3.5	3.5	3.6	4.0	3.7	3.5
40%	3.2	3.3	3.8	4.2	4.6	4.4	3.3	3.4	3.5	3.9	3.7	3.4
50%	3.2	3.3	3.6	4.1	4.0	4.2	3.2	3.3	3.4	3.9	3.6	3.4
60%	3.2	3.3	3.5	3.8	3.5	4.1	3.2	3.1	3.4	3.9	3.6	3.3
70%	3.1	3.2	3.5	3.6	3.4	3.5	3.1	3.1	3.3	3.8	3.6	3.3
80%	3.0	3.0	3.3	3.3	3.3	3.1	3.0	3.1	3.3	3.8	3.5	3.3
90%	3.0	2.9	3.1	3.2	3.0	3.0	2.9	2.8	3.2	3.6	3.4	3.2
Long Term												
Full Simulation Period[a]	3.2	3.7	4.3	4.7	4.9	4.8	3.8	3.5	3.6	3.9	3.7	3.5
Water Year Types[b]												
Wet (31%)	3.5	5.1	6.8	6.1	7.4	7.3	5.4	4.5	4.4	4.2	3.9	4.0
Above Normal (25%)	3.0	3.1	3.7	7.1	6.9	6.0	3.9	3.6	3.4	3.7	3.6	3.4
Below Normal (6%)	3.2	3.2	3.1	4.2	4.8	4.2	3.2	3.4	3.3	3.6	3.5	3.3
Dry (13%)	3.2	3.4	3.6	3.6	3.5	4.1	3.2	3.3	3.6	3.9	3.8	3.4
Critical (25%)	3.2	3.2	3.5	3.5	3.2	3.2	3.0	2.9	3.3	3.8	3.5	3.3

Alternative 3 (LLT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.6	5.3	7.7	7.4	8.4	7.7	6.0	4.7	4.7	5.0	4.7	4.6
20%	4.5	4.8	4.7	6.9	7.6	6.8	4.4	4.5	4.6	4.7	4.6	4.4
30%	4.4	4.2	4.7	5.6	5.8	5.6	4.3	4.3	4.4	4.7	4.6	4.4
40%	4.3	4.2	4.7	4.9	4.8	4.7	4.2	4.2	4.4	4.7	4.5	4.3
50%	4.2	4.1	4.4	4.7	4.6	4.6	4.1	4.2	4.3	4.7	4.5	4.3
60%	4.1	4.1	4.4	4.5	4.3	4.4	4.1	4.1	4.3	4.6	4.4	4.3
70%	4.1	4.1	4.3	4.4	4.3	4.3	4.0	4.1	4.2	4.5	4.4	4.3
80%	4.1	4.0	4.2	4.3	4.2	4.0	4.0	4.1	4.2	4.4	4.3	4.2
90%	4.0	3.9	4.1	4.2	4.0	3.9	3.8	3.9	4.2	4.3	4.2	4.1
Long Term												
Full Simulation Period[a]	4.3	4.5	5.1	5.3	5.5	5.3	4.6	4.3	4.4	4.6	4.5	4.4
Water Year Types[b]												
Wet (31%)	4.4	5.5	7.2	6.4	7.6	7.3	5.9	4.8	4.7	4.8	4.7	4.7
Above Normal (25%)	4.2	4.0	4.5	7.2	7.3	6.2	4.4	4.2	4.3	4.5	4.4	4.2
Below Normal (6%)	4.3	4.1	4.2	4.9	4.8	4.5	4.0	4.1	4.2	4.1	4.2	4.2
Dry (13%)	4.1	4.2	4.4	4.5	4.3	4.7	4.1	4.3	4.4	4.7	4.5	4.3
Critical (25%)	4.3	4.1	4.3	4.4	4.1	4.0	3.9	4.0	4.2	4.5	4.3	4.3

Alternative 3 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.0	0.2	0.3	0.3	0.0	**0.0**	0.2	0.5	0.9	0.8	0.7	0.7
20%	1.2	0.3	0.7	0.6	0.1	0.3	0.7	0.9	0.9	0.8	0.7	0.9
30%	1.1	0.8	0.8	0.5	0.4	0.2	0.8	0.8	0.9	0.8	0.9	0.9
40%	1.1	0.9	0.8	0.7	0.3	0.3	0.9	0.8	0.9	0.8	0.8	0.9
50%	1.0	0.8	0.8	0.6	0.6	0.3	0.8	0.9	0.9	0.8	0.9	0.9
60%	1.0	0.9	0.9	0.8	0.8	0.3	0.9	1.0	0.9	0.8	0.8	1.0
70%	1.1	0.9	0.9	0.9	0.9	0.8	0.9	1.0	0.9	0.7	0.8	1.0
80%	1.1	1.0	0.9	1.0	0.9	0.9	1.0	1.0	0.9	0.7	0.7	0.9
90%	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	0.9	0.7	0.8	0.9
Long Term												
Full Simulation Period[a]	1.0	0.7	0.8	0.6	0.6	0.4	0.8	0.8	0.8	0.7	0.8	0.9
Water Year Types[b]												
Wet (31%)	0.8	0.4	0.4	0.4	0.2	**0.0**	0.5	0.2	0.3	0.6	0.8	0.7
Above Normal (25%)	1.2	0.9	0.9	0.1	0.4	0.2	0.5	0.7	0.9	0.8	0.8	0.9
Below Normal (6%)	1.1	0.9	1.1	0.7	0.1	0.4	0.8	0.7	0.9	0.5	0.7	0.9
Dry (13%)	0.9	0.8	0.9	0.9	0.8	0.6	0.9	1.0	0.9	0.8	0.8	0.9
Critical (25%)	1.2	0.9	0.9	0.9	0.9	0.8	1.0	1.1	0.9	0.7	0.8	1.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-31-1-5. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.6	5.2	7.4	7.1	8.3	7.7	5.7	4.2	3.8	4.2	3.9	3.9
20%	3.3	4.5	4.0	6.3	7.5	6.5	3.7	3.5	3.6	4.0	3.9	3.5
30%	3.2	3.4	3.9	5.1	5.4	5.4	3.5	3.5	3.6	4.0	3.7	3.5
40%	3.2	3.3	3.8	4.2	4.6	4.4	3.3	3.4	3.5	3.9	3.7	3.4
50%	3.2	3.3	3.6	4.1	4.0	4.2	3.2	3.3	3.4	3.9	3.6	3.4
60%	3.2	3.3	3.5	3.8	3.5	4.1	3.2	3.1	3.4	3.9	3.6	3.3
70%	3.1	3.2	3.5	3.6	3.4	3.5	3.1	3.1	3.3	3.8	3.6	3.3
80%	3.0	3.0	3.3	3.3	3.3	3.1	3.0	3.1	3.3	3.8	3.5	3.3
90%	3.0	2.9	3.1	3.2	3.0	3.0	2.9	2.8	3.2	3.6	3.4	3.2
Long Term												
Full Simulation Period[a]	3.2	3.7	4.3	4.7	4.9	4.8	3.8	3.5	3.6	3.9	3.7	3.5
Water Year Types[b]												
Wet (31%)	3.5	5.1	6.8	6.1	7.4	7.3	5.4	4.5	4.4	4.2	3.9	4.0
Above Normal (25%)	3.0	3.1	3.7	7.1	6.9	6.0	3.9	3.6	3.4	3.7	3.6	3.4
Below Normal (6%)	3.2	3.2	3.1	4.2	4.8	4.2	3.2	3.4	3.3	3.6	3.5	3.3
Dry (13%)	3.2	3.4	3.6	3.6	3.5	4.1	3.2	3.3	3.6	3.9	3.8	3.4
Critical (25%)	3.2	3.2	3.5	3.5	3.2	3.2	3.0	2.9	3.3	3.8	3.5	3.3

Alternative 4 H1 (LLT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	5.3	7.5	7.1	8.2	7.4	5.8	4.7	4.7	5.0	4.7	4.6
20%	4.3	4.8	4.7	6.7	7.4	6.6	4.4	4.4	4.6	4.8	4.6	4.5
30%	4.3	4.2	4.7	5.5	5.6	5.6	4.3	4.3	4.5	4.8	4.6	4.4
40%	4.2	4.2	4.6	4.7	4.8	4.7	4.2	4.2	4.4	4.7	4.6	4.3
50%	4.2	4.2	4.5	4.7	4.5	4.5	4.1	4.2	4.3	4.7	4.5	4.3
60%	4.2	4.1	4.4	4.6	4.3	4.4	4.0	4.1	4.3	4.7	4.4	4.3
70%	4.1	4.1	4.3	4.5	4.2	4.2	4.0	4.1	4.2	4.5	4.4	4.3
80%	4.0	3.9	4.2	4.5	4.2	4.0	4.0	4.1	4.2	4.5	4.3	4.2
90%	4.0	3.9	4.1	4.2	4.0	3.9	3.8	3.9	4.2	4.3	4.3	4.1
Long Term												
Full Simulation Period[a]	4.2	4.4	5.1	5.3	5.4	5.2	4.5	4.3	4.4	4.7	4.5	4.4
Water Year Types[b]												
Wet (31%)	4.4	5.4	7.1	6.3	7.4	7.1	5.8	4.7	4.7	4.9	4.7	4.7
Above Normal (25%)	4.0	4.0	4.6	7.1	7.1	6.0	4.4	4.3	4.2	4.6	4.5	4.2
Below Normal (6%)	4.2	4.1	4.2	4.9	4.8	4.5	4.0	4.1	4.3	4.2	4.3	4.2
Dry (13%)	4.1	4.2	4.4	4.4	4.3	4.6	4.1	4.3	4.5	4.8	4.5	4.3
Critical (25%)	4.2	4.1	4.4	4.4	4.1	4.0	3.9	4.0	4.2	4.5	4.3	4.2

Alternative 4 H1 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.8	0.1	0.1	0.0	**-0.1**	**-0.3**	0.1	0.5	0.8	0.8	0.8	0.7
20%	1.0	0.3	0.7	0.4	**-0.2**	0.1	0.7	0.9	0.9	0.8	0.7	1.0
30%	1.0	0.8	0.8	0.4	0.2	0.1	0.8	0.8	0.9	0.8	0.9	0.9
40%	1.0	0.8	0.8	0.5	0.2	0.2	0.9	0.8	0.9	0.8	0.9	0.9
50%	1.0	0.9	0.9	0.6	0.6	0.3	0.8	0.8	0.9	0.8	0.9	0.9
60%	1.0	0.9	0.9	0.8	0.8	0.3	0.9	1.0	0.9	0.8	0.8	1.0
70%	1.0	0.9	0.8	0.9	0.9	0.7	0.9	1.0	0.9	0.7	0.8	1.0
80%	1.0	0.9	0.8	1.2	0.9	0.9	1.0	1.0	0.9	0.7	0.8	0.9
90%	1.0	0.9	1.0	1.1	1.0	1.0	1.0	1.1	0.9	0.7	0.8	1.0
Long Term												
Full Simulation Period[a]	1.0	0.7	0.7	0.6	0.5	0.4	0.7	0.8	0.8	0.7	0.8	0.9
Water Year Types[b]												
Wet (31%)	0.8	0.3	0.3	0.2	**0.0**	**-0.2**	0.4	0.2	0.3	0.7	0.8	0.7
Above Normal (25%)	1.0	0.9	0.9	**0.0**	0.2	0.1	0.4	0.7	0.8	0.9	0.9	0.9
Below Normal (6%)	1.0	1.0	1.0	0.7	**0.0**	0.3	0.8	0.7	0.9	0.6	0.7	0.9
Dry (13%)	1.0	0.8	0.9	0.8	0.8	0.5	0.9	1.0	0.9	0.8	0.8	0.9
Critical (25%)	1.0	0.9	0.9	0.9	0.9	0.8	1.0	1.1	0.9	0.7	0.9	1.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-31-1-6. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.6	5.2	7.4	7.1	8.3	7.7	5.7	4.2	3.8	4.2	3.9	3.9
20%	3.3	4.5	4.0	6.3	7.5	6.5	3.7	3.5	3.6	4.0	3.9	3.5
30%	3.2	3.4	3.9	5.1	5.4	5.4	3.5	3.5	3.6	4.0	3.7	3.5
40%	3.2	3.3	3.8	4.2	4.6	4.4	3.3	3.4	3.5	3.9	3.7	3.4
50%	3.2	3.3	3.6	4.1	4.0	4.2	3.2	3.3	3.4	3.9	3.6	3.4
60%	3.2	3.3	3.5	3.8	3.5	4.1	3.2	3.1	3.4	3.9	3.6	3.3
70%	3.1	3.2	3.5	3.6	3.4	3.5	3.1	3.1	3.3	3.8	3.6	3.3
80%	3.0	3.0	3.3	3.3	3.3	3.1	3.0	3.1	3.3	3.8	3.5	3.3
90%	3.0	2.9	3.1	3.2	3.0	3.0	2.9	2.8	3.2	3.6	3.4	3.2
Long Term												
Full Simulation Period[a]	3.2	3.7	4.3	4.7	4.9	4.8	3.8	3.5	3.6	3.9	3.7	3.5
Water Year Types[b]												
Wet (31%)	3.5	5.1	6.8	6.1	7.4	7.3	5.4	4.5	4.4	4.2	3.9	4.0
Above Normal (25%)	3.0	3.1	3.7	7.1	6.9	6.0	3.9	3.6	3.4	3.7	3.6	3.4
Below Normal (6%)	3.2	3.2	3.1	4.2	4.8	4.2	3.2	3.4	3.3	3.6	3.5	3.3
Dry (13%)	3.2	3.4	3.6	3.6	3.5	4.1	3.2	3.3	3.6	3.9	3.8	3.4
Critical (25%)	3.2	3.2	3.5	3.5	3.2	3.2	3.0	2.9	3.3	3.8	3.5	3.3

Alternative 4 H2 (LLT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.5	5.4	7.6	7.1	8.2	7.5	5.8	4.7	4.6	4.9	4.7	4.6
20%	4.3	4.9	4.8	6.6	7.4	6.6	4.6	4.4	4.5	4.8	4.6	4.4
30%	4.3	4.2	4.7	5.5	5.7	5.7	4.4	4.4	4.4	4.7	4.6	4.4
40%	4.2	4.2	4.6	4.7	4.8	4.7	4.4	4.3	4.4	4.7	4.5	4.3
50%	4.1	4.2	4.5	4.7	4.5	4.5	4.2	4.2	4.3	4.6	4.5	4.3
60%	4.1	4.1	4.4	4.5	4.3	4.4	4.1	4.1	4.2	4.6	4.4	4.3
70%	4.1	4.1	4.3	4.5	4.2	4.2	4.0	4.1	4.2	4.5	4.4	4.3
80%	4.0	3.9	4.1	4.4	4.2	4.0	4.0	4.1	4.2	4.4	4.3	4.2
90%	4.0	3.9	4.1	4.3	4.0	3.9	3.9	3.9	4.1	4.3	4.3	4.1
Long Term												
Full Simulation Period[a]	4.2	4.5	5.1	5.3	5.4	5.2	4.6	4.3	4.4	4.6	4.5	4.4
Water Year Types[b]												
Wet (31%)	4.4	5.4	7.1	6.3	7.4	7.1	6.0	4.7	4.7	4.8	4.7	4.7
Above Normal (25%)	4.0	4.0	4.6	7.2	7.2	6.1	4.6	4.4	4.2	4.5	4.5	4.2
Below Normal (6%)	4.1	4.1	4.1	4.9	4.8	4.6	4.0	4.1	4.3	4.3	4.3	4.2
Dry (13%)	4.1	4.2	4.4	4.4	4.3	4.6	4.1	4.3	4.4	4.7	4.5	4.3
Critical (25%)	4.3	4.1	4.3	4.4	4.1	4.0	3.9	4.0	4.2	4.5	4.3	4.3

Alternative 4 H2 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.9	0.2	0.1	0.1	**-0.1**	**-0.3**	0.1	0.5	0.8	0.7	0.8	0.7
20%	1.1	0.4	0.8	0.4	**-0.2**	0.1	0.9	0.9	0.9	0.8	0.7	0.9
30%	1.1	0.8	0.8	0.4	0.3	0.2	0.9	0.9	0.9	0.7	0.9	0.9
40%	1.0	0.8	0.8	0.5	0.2	0.2	1.1	0.9	0.9	0.7	0.8	0.9
50%	1.0	0.9	0.9	0.6	0.6	0.3	1.0	0.9	0.8	0.7	0.9	0.9
60%	0.9	0.9	0.9	0.7	0.8	0.3	0.9	1.0	0.9	0.7	0.8	1.0
70%	1.0	0.9	0.8	0.9	0.8	0.7	0.9	0.9	0.9	0.7	0.8	1.0
80%	1.0	1.0	0.8	1.1	0.9	0.9	0.9	1.0	0.9	0.6	0.8	0.9
90%	1.0	1.0	1.0	1.1	1.0	1.0	1.0	1.1	0.9	0.7	0.8	1.0
Long Term												
Full Simulation Period[a]	1.0	0.7	0.7	0.6	0.5	0.4	0.8	0.8	0.7	0.7	0.8	0.9
Water Year Types[b]												
Wet (31%)	0.8	0.3	0.3	0.2	**0.0**	**-0.2**	0.5	0.2	0.3	0.6	0.8	0.7
Above Normal (25%)	1.1	0.8	0.9	0.1	0.2	0.1	0.7	0.8	0.8	0.7	0.9	0.9
Below Normal (6%)	0.9	0.9	1.0	0.7	0.1	0.4	0.8	0.7	0.9	0.6	0.7	0.9
Dry (13%)	0.9	0.8	0.8	0.8	0.8	0.5	0.9	1.0	0.8	0.7	0.7	0.9
Critical (25%)	1.1	0.9	0.8	0.9	0.9	0.8	0.9	1.1	0.9	0.7	0.9	1.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-31-1-7. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.6	5.2	7.4	7.1	8.3	7.7	5.7	4.2	3.8	4.2	3.9	3.9
20%	3.3	4.5	4.0	6.3	7.5	6.5	3.7	3.5	3.6	4.0	3.9	3.5
30%	3.2	3.4	3.9	5.1	5.4	5.4	3.5	3.5	3.6	4.0	3.7	3.5
40%	3.2	3.3	3.8	4.2	4.6	4.4	3.3	3.4	3.5	3.9	3.7	3.4
50%	3.2	3.3	3.6	4.1	4.0	4.2	3.2	3.3	3.4	3.9	3.6	3.4
60%	3.2	3.3	3.5	3.8	3.5	4.1	3.2	3.1	3.4	3.9	3.6	3.3
70%	3.1	3.2	3.5	3.6	3.4	3.5	3.1	3.1	3.3	3.8	3.6	3.3
80%	3.0	3.0	3.3	3.3	3.3	3.1	3.0	3.1	3.3	3.8	3.5	3.3
90%	3.0	2.9	3.1	3.2	3.0	3.0	2.9	2.8	3.2	3.6	3.4	3.2
Long Term												
Full Simulation Period[a]	3.2	3.7	4.3	4.7	4.9	4.8	3.8	3.5	3.6	3.9	3.7	3.5
Water Year Types[b]												
Wet (31%)	3.5	5.1	6.8	6.1	7.4	7.3	5.4	4.5	4.4	4.2	3.9	4.0
Above Normal (25%)	3.0	3.1	3.7	7.1	6.9	6.0	3.9	3.6	3.4	3.7	3.6	3.4
Below Normal (6%)	3.2	3.2	3.1	4.2	4.8	4.2	3.2	3.4	3.3	3.6	3.5	3.3
Dry (13%)	3.2	3.4	3.6	3.6	3.5	4.1	3.2	3.3	3.6	3.9	3.8	3.4
Critical (25%)	3.2	3.2	3.5	3.5	3.2	3.2	3.0	2.9	3.3	3.8	3.5	3.3

Alternative 4 H3 (LLT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	5.3	7.4	7.1	8.2	7.4	5.8	4.7	4.7	5.0	4.7	4.9
20%	4.4	4.8	4.7	6.6	7.4	6.6	4.4	4.4	4.6	4.8	4.6	4.8
30%	4.2	4.3	4.7	5.5	5.6	5.4	4.3	4.3	4.5	4.8	4.6	4.4
40%	4.2	4.2	4.7	4.7	4.8	4.7	4.2	4.3	4.4	4.7	4.5	4.4
50%	4.1	4.2	4.6	4.7	4.5	4.5	4.0	4.2	4.3	4.7	4.5	4.3
60%	4.1	4.2	4.5	4.6	4.3	4.4	4.0	4.1	4.3	4.7	4.4	4.3
70%	4.0	4.1	4.3	4.5	4.2	4.2	4.0	4.1	4.3	4.5	4.3	4.3
80%	4.0	3.9	4.1	4.4	4.2	4.0	4.0	4.1	4.2	4.5	4.3	4.2
90%	4.0	3.9	4.1	4.1	4.0	3.9	3.8	3.9	4.2	4.3	4.3	4.1
Long Term												
Full Simulation Period[a]	4.2	4.5	5.1	5.2	5.4	5.2	4.5	4.3	4.4	4.7	4.5	4.4
Water Year Types[b]												
Wet (31%)	4.3	5.4	7.1	6.3	7.4	7.1	5.8	4.7	4.7	4.9	4.7	4.9
Above Normal (25%)	4.1	4.0	4.6	7.0	7.1	6.0	4.4	4.3	4.2	4.6	4.5	4.3
Below Normal (6%)	4.1	4.2	4.0	4.9	4.8	4.5	4.0	4.1	4.3	4.2	4.3	4.1
Dry (13%)	4.1	4.2	4.4	4.4	4.3	4.5	4.1	4.3	4.5	4.7	4.5	4.3
Critical (25%)	4.1	4.1	4.4	4.4	4.1	4.0	3.9	4.0	4.2	4.5	4.3	4.2

Alternative 4 H3 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.8	0.1	**0.0**	0.0	**-0.2**	**-0.3**	0.1	0.5	0.8	0.8	0.8	1.0
20%	1.1	0.3	0.7	0.4	**-0.2**	0.1	0.7	0.9	0.9	0.8	0.7	1.3
30%	1.0	0.9	0.8	0.4	0.2	**0.0**	0.8	0.8	0.9	0.8	0.9	0.9
40%	1.0	0.9	0.9	0.5	0.2	0.2	0.9	0.8	0.9	0.8	0.9	0.9
50%	1.0	0.9	1.0	0.6	0.6	0.3	0.8	0.8	0.9	0.8	0.8	0.9
60%	0.9	0.9	1.0	0.9	0.8	0.3	0.8	1.0	0.9	0.8	0.8	1.0
70%	1.0	1.0	0.8	0.9	0.9	0.7	0.9	1.0	0.9	0.7	0.8	1.0
80%	1.0	0.9	0.8	1.1	0.9	0.9	1.0	1.0	0.9	0.7	0.8	1.0
90%	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	0.9	0.7	0.8	0.9
Long Term												
Full Simulation Period[a]	0.9	0.7	0.7	0.6	0.5	0.3	0.7	0.8	0.8	0.7	0.8	0.9
Water Year Types[b]												
Wet (31%)	0.8	0.3	0.2	0.2	**0.0**	**-0.2**	0.4	0.2	0.3	0.7	0.8	0.9
Above Normal (25%)	1.1	0.9	0.9	**-0.1**	0.2	0.1	0.4	0.7	0.8	0.9	0.9	1.0
Below Normal (6%)	0.9	1.0	0.9	0.7	**0.0**	0.3	0.8	0.7	0.9	0.6	0.7	0.8
Dry (13%)	1.0	0.8	0.9	0.8	0.8	0.4	0.9	1.0	0.9	0.8	0.7	0.9
Critical (25%)	1.0	0.9	0.9	0.9	0.9	0.8	0.9	1.1	0.9	0.7	0.8	1.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-31-1-8. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.6	5.2	7.4	7.1	8.3	7.7	5.7	4.2	3.8	4.2	3.9	3.9
20%	3.3	4.5	4.0	6.3	7.5	6.5	3.7	3.5	3.6	4.0	3.9	3.5
30%	3.2	3.4	3.9	5.1	5.4	5.4	3.5	3.5	3.6	4.0	3.7	3.5
40%	3.2	3.3	3.8	4.2	4.6	4.4	3.3	3.4	3.5	3.9	3.7	3.4
50%	3.2	3.3	3.6	4.1	4.0	4.2	3.2	3.3	3.4	3.9	3.6	3.4
60%	3.2	3.3	3.5	3.8	3.5	4.1	3.2	3.1	3.4	3.9	3.6	3.3
70%	3.1	3.2	3.5	3.6	3.4	3.5	3.1	3.1	3.3	3.8	3.6	3.3
80%	3.0	3.0	3.3	3.3	3.3	3.1	3.0	3.1	3.3	3.8	3.5	3.3
90%	3.0	2.9	3.1	3.2	3.0	3.0	2.9	2.8	3.2	3.6	3.4	3.2
Long Term												
Full Simulation Period[a]	3.2	3.7	4.3	4.7	4.9	4.8	3.8	3.5	3.6	3.9	3.7	3.5
Water Year Types[b]												
Wet (31%)	3.5	5.1	6.8	6.1	7.4	7.3	5.4	4.5	4.4	4.2	3.9	4.0
Above Normal (25%)	3.0	3.1	3.7	7.1	6.9	6.0	3.9	3.6	3.4	3.7	3.6	3.4
Below Normal (6%)	3.2	3.2	3.1	4.2	4.8	4.2	3.2	3.4	3.3	3.6	3.5	3.3
Dry (13%)	3.2	3.4	3.6	3.6	3.5	4.1	3.2	3.3	3.6	3.9	3.8	3.4
Critical (25%)	3.2	3.2	3.5	3.5	3.2	3.2	3.0	2.9	3.3	3.8	3.5	3.3

Alternative 4 H4 (LLT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	5.2	7.4	7.2	8.2	7.5	5.8	4.7	4.6	4.9	4.7	4.9
20%	4.4	4.8	4.7	6.7	7.4	6.6	4.6	4.4	4.5	4.8	4.6	4.8
30%	4.3	4.3	4.7	5.5	5.6	5.6	4.4	4.4	4.4	4.7	4.6	4.4
40%	4.2	4.2	4.6	4.7	4.8	4.7	4.4	4.3	4.4	4.6	4.5	4.4
50%	4.2	4.2	4.5	4.7	4.5	4.5	4.2	4.2	4.3	4.6	4.5	4.3
60%	4.1	4.2	4.4	4.5	4.3	4.4	4.0	4.1	4.2	4.6	4.4	4.3
70%	4.0	4.1	4.3	4.5	4.2	4.2	4.0	4.1	4.2	4.5	4.4	4.3
80%	4.0	4.0	4.1	4.2	4.2	4.0	4.0	4.1	4.2	4.4	4.3	4.2
90%	4.0	3.9	4.1	4.1	4.0	3.9	3.9	3.9	4.2	4.3	4.2	4.1
Long Term												
Full Simulation Period[a]	4.2	4.4	5.1	5.2	5.4	5.2	4.6	4.3	4.4	4.6	4.5	4.4
Water Year Types[b]												
Wet (31%)	4.4	5.3	7.1	6.3	7.4	7.1	6.0	4.7	4.7	4.8	4.7	5.0
Above Normal (25%)	4.1	4.0	4.6	7.1	7.1	6.0	4.6	4.4	4.2	4.5	4.5	4.3
Below Normal (6%)	4.0	4.2	4.1	4.9	4.8	4.5	4.0	4.1	4.3	4.3	4.2	4.1
Dry (13%)	4.1	4.2	4.4	4.4	4.3	4.6	4.1	4.3	4.4	4.6	4.5	4.3
Critical (25%)	4.2	4.1	4.3	4.3	4.1	4.0	3.9	4.0	4.2	4.5	4.4	4.3

Alternative 4 H4 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.8	0.0	**0.0**	0.1	**-0.2**	**-0.3**	0.1	0.5	0.8	0.7	0.8	1.0
20%	1.1	0.3	0.7	0.4	**-0.2**	0.1	0.9	0.9	0.9	0.8	0.7	1.3
30%	1.0	0.9	0.8	0.4	0.3	0.2	0.9	0.9	0.9	0.7	0.9	0.9
40%	1.0	0.9	0.8	0.5	0.2	0.2	1.1	0.9	0.9	0.7	0.8	0.9
50%	1.0	0.9	0.9	0.6	0.6	0.3	1.0	0.9	0.8	0.7	0.9	0.9
60%	1.0	0.9	0.9	0.7	0.8	0.3	0.9	1.0	0.9	0.7	0.9	1.0
70%	1.0	1.0	0.8	0.9	0.8	0.7	0.9	0.9	0.9	0.7	0.8	1.0
80%	1.0	1.0	0.8	0.9	0.9	0.9	1.0	1.0	0.9	0.6	0.8	1.0
90%	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	0.9	0.7	0.8	1.0
Long Term												
Full Simulation Period[a]	1.0	0.7	0.7	0.6	0.5	0.4	0.8	0.8	0.7	0.7	0.8	1.0
Water Year Types[b]												
Wet (31%)	0.9	0.3	0.2	0.2	**0.0**	**-0.2**	0.5	0.2	0.3	0.6	0.8	1.0
Above Normal (25%)	1.1	0.8	0.9	0.0	0.2	0.1	0.7	0.8	0.8	0.7	0.9	1.0
Below Normal (6%)	0.8	1.0	1.0	0.7	0.0	0.3	0.8	0.7	0.9	0.6	0.7	0.9
Dry (13%)	1.0	0.8	0.8	0.8	0.8	0.5	0.9	1.0	0.8	0.7	0.7	0.9
Critical (25%)	1.0	0.9	0.8	0.8	0.9	0.8	1.0	1.1	0.9	0.7	0.9	1.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-31-1-9. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.6	5.2	7.4	7.1	8.3	7.7	5.7	4.2	3.8	4.2	3.9	3.9
20%	3.3	4.5	4.0	6.3	7.5	6.5	3.7	3.5	3.6	4.0	3.9	3.5
30%	3.2	3.4	3.9	5.1	5.4	5.4	3.5	3.5	3.6	4.0	3.7	3.5
40%	3.2	3.3	3.8	4.2	4.6	4.4	3.3	3.4	3.5	3.9	3.7	3.4
50%	3.2	3.3	3.6	4.1	4.0	4.2	3.2	3.3	3.4	3.9	3.6	3.4
60%	3.2	3.3	3.5	3.8	3.5	4.1	3.2	3.1	3.4	3.9	3.6	3.3
70%	3.1	3.2	3.5	3.6	3.4	3.5	3.1	3.1	3.3	3.8	3.6	3.3
80%	3.0	3.0	3.3	3.3	3.3	3.1	3.0	3.1	3.3	3.8	3.5	3.3
90%	3.0	2.9	3.1	3.2	3.0	3.0	2.9	2.8	3.2	3.6	3.4	3.2
Long Term												
Full Simulation Period[a]	3.2	3.7	4.3	4.7	4.9	4.8	3.8	3.5	3.6	3.9	3.7	3.5
Water Year Types[b]												
Wet (31%)	3.5	5.1	6.8	6.1	7.4	7.3	5.4	4.5	4.4	4.2	3.9	4.0
Above Normal (25%)	3.0	3.1	3.7	7.1	6.9	6.0	3.9	3.6	3.4	3.7	3.6	3.4
Below Normal (6%)	3.2	3.2	3.1	4.2	4.8	4.2	3.2	3.4	3.3	3.6	3.5	3.3
Dry (13%)	3.2	3.4	3.6	3.6	3.5	4.1	3.2	3.3	3.6	3.9	3.8	3.4
Critical (25%)	3.2	3.2	3.5	3.5	3.2	3.2	3.0	2.9	3.3	3.8	3.5	3.3

Alternative 5 (LLT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	5.4	7.8	7.5	8.6	7.9	6.1	4.8	4.7	4.9	4.7	4.9
20%	4.3	4.8	4.7	7.0	7.8	7.0	4.5	4.4	4.6	4.8	4.6	4.8
30%	4.3	4.3	4.7	5.7	5.9	5.8	4.4	4.3	4.5	4.8	4.5	4.4
40%	4.2	4.2	4.7	4.8	4.9	4.8	4.2	4.2	4.4	4.7	4.5	4.3
50%	4.1	4.2	4.4	4.8	4.6	4.7	4.1	4.2	4.3	4.7	4.5	4.3
60%	4.0	4.2	4.4	4.5	4.3	4.4	4.0	4.1	4.3	4.7	4.4	4.3
70%	4.0	4.1	4.3	4.5	4.3	4.2	4.0	4.1	4.3	4.6	4.4	4.3
80%	4.0	3.9	4.2	4.4	4.2	4.0	4.0	4.1	4.2	4.5	4.3	4.2
90%	4.0	3.9	4.1	4.2	4.0	3.9	3.8	3.9	4.2	4.4	4.2	4.1
Long Term												
Full Simulation Period[a]	4.2	4.5	5.1	5.4	5.6	5.4	4.6	4.3	4.4	4.7	4.5	4.4
Water Year Types[b]												
Wet (31%)	4.3	5.5	7.3	6.6	7.8	7.5	6.0	4.8	4.8	4.9	4.7	5.0
Above Normal (25%)	3.9	4.0	4.6	7.4	7.5	6.4	4.5	4.3	4.3	4.6	4.4	4.3
Below Normal (6%)	4.0	4.2	4.2	4.9	4.9	4.6	4.0	4.1	4.3	4.4	4.2	4.1
Dry (13%)	4.1	4.2	4.4	4.4	4.3	4.7	4.1	4.3	4.4	4.7	4.5	4.2
Critical (25%)	4.2	4.1	4.3	4.4	4.1	4.0	4.0	4.0	4.2	4.5	4.3	4.2

Alternative 5 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.8	0.2	0.3	0.4	0.3	0.2	0.4	0.6	0.8	0.8	0.8	1.0
20%	1.0	0.3	0.7	0.7	0.3	0.5	0.8	0.9	0.9	0.8	0.8	1.3
30%	1.0	0.9	0.8	0.6	0.5	0.3	0.9	0.8	0.9	0.8	0.9	0.9
40%	1.0	0.9	0.8	0.6	0.4	0.4	0.9	0.8	0.9	0.8	0.8	0.9
50%	0.9	0.9	0.8	0.7	0.6	0.4	0.9	0.8	0.9	0.8	0.8	0.9
60%	0.9	0.9	0.9	0.8	0.8	0.4	0.9	1.0	0.9	0.8	0.8	1.0
70%	0.9	1.0	0.8	0.9	0.9	0.7	0.9	1.0	0.9	0.8	0.8	1.0
80%	1.0	1.0	0.9	1.1	0.9	0.9	1.0	1.0	0.9	0.8	0.7	0.9
90%	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	0.9	0.7	0.8	0.9
Long Term												
Full Simulation Period[a]	0.9	0.8	0.8	0.7	0.6	0.5	0.8	0.8	0.8	0.8	0.8	0.9
Water Year Types[b]												
Wet (31%)	0.8	0.4	0.5	0.5	0.4	0.1	0.6	0.3	0.4	0.7	0.8	1.0
Above Normal (25%)	1.0	0.9	0.9	0.3	0.5	0.4	0.5	0.7	0.9	0.9	0.8	1.0
Below Normal (6%)	0.8	1.0	1.1	0.7	0.1	0.4	0.8	0.7	0.9	0.7	0.7	0.8
Dry (13%)	1.0	0.8	0.8	0.8	0.8	0.6	0.9	1.0	0.9	0.8	0.8	0.8
Critical (25%)	1.0	0.9	0.8	0.9	0.9	0.9	1.0	1.1	0.9	0.7	0.8	1.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-31-1-10. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.6	5.2	7.4	7.1	8.3	7.7	5.7	4.2	3.8	4.2	3.9	3.9
20%	3.3	4.5	4.0	6.3	7.5	6.5	3.7	3.5	3.6	4.0	3.9	3.5
30%	3.2	3.4	3.9	5.1	5.4	5.4	3.5	3.5	3.6	4.0	3.7	3.5
40%	3.2	3.3	3.8	4.2	4.6	4.4	3.3	3.4	3.5	3.9	3.7	3.4
50%	3.2	3.3	3.6	4.1	4.0	4.2	3.2	3.3	3.4	3.9	3.6	3.4
60%	3.2	3.3	3.5	3.8	3.5	4.1	3.2	3.1	3.4	3.9	3.6	3.3
70%	3.1	3.2	3.5	3.6	3.4	3.5	3.1	3.1	3.3	3.8	3.6	3.3
80%	3.0	3.0	3.3	3.3	3.3	3.1	3.0	3.1	3.3	3.8	3.5	3.3
90%	3.0	2.9	3.1	3.2	3.0	3.0	2.9	2.8	3.2	3.6	3.4	3.2
Long Term												
Full Simulation Period[a]	3.2	3.7	4.3	4.7	4.9	4.8	3.8	3.5	3.6	3.9	3.7	3.5
Water Year Types[b]												
Wet (31%)	3.5	5.1	6.8	6.1	7.4	7.3	5.4	4.5	4.4	4.2	3.9	4.0
Above Normal (25%)	3.0	3.1	3.7	7.1	6.9	6.0	3.9	3.6	3.4	3.7	3.6	3.4
Below Normal (6%)	3.2	3.2	3.1	4.2	4.8	4.2	3.2	3.4	3.3	3.6	3.5	3.3
Dry (13%)	3.2	3.4	3.6	3.6	3.5	4.1	3.2	3.3	3.6	3.9	3.8	3.4
Critical (25%)	3.2	3.2	3.5	3.5	3.2	3.2	3.0	2.9	3.3	3.8	3.5	3.3

Alternative 6A,6B,6C (LLT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	5.5	7.3	6.8	7.7	7.2	5.7	4.6	4.6	4.8	4.7	4.9
20%	4.3	4.9	4.7	6.4	7.2	6.5	4.4	4.3	4.5	4.7	4.6	4.7
30%	4.2	4.3	4.7	5.6	5.5	5.4	4.3	4.3	4.4	4.7	4.6	4.4
40%	4.2	4.3	4.6	4.8	4.7	4.6	4.2	4.2	4.3	4.7	4.6	4.4
50%	4.1	4.2	4.5	4.7	4.6	4.5	4.1	4.2	4.2	4.6	4.5	4.4
60%	4.1	4.2	4.3	4.5	4.5	4.4	4.0	4.1	4.2	4.6	4.4	4.4
70%	4.1	4.2	4.3	4.5	4.2	4.2	4.0	4.0	4.2	4.5	4.4	4.3
80%	4.1	3.9	4.1	4.2	4.2	4.0	4.0	4.0	4.1	4.5	4.3	4.2
90%	4.0	3.9	4.1	4.1	4.0	3.9	3.8	3.9	4.1	4.4	4.3	4.1
Long Term												
Full Simulation Period[a]	4.2	4.5	5.0	5.2	5.3	5.1	4.5	4.3	4.3	4.6	4.5	4.4
Water Year Types[b]												
Wet (31%)	4.4	5.4	7.0	6.2	7.2	7.0	5.8	4.7	4.6	4.8	4.7	4.9
Above Normal (25%)	3.9	4.0	4.6	6.8	6.7	5.9	4.3	4.3	4.2	4.5	4.5	4.3
Below Normal (6%)	4.1	4.2	4.1	4.9	4.7	4.5	4.1	4.1	4.2	4.3	4.3	4.2
Dry (13%)	4.2	4.2	4.4	4.4	4.3	4.5	4.1	4.2	4.4	4.6	4.5	4.3
Critical (25%)	4.1	4.2	4.3	4.3	4.2	4.0	3.9	4.0	4.2	4.5	4.4	4.3

Alternative 6A,6B,6C (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.8	0.3	**-0.1**	**-0.3**	**-0.6**	**-0.5**	0.0	0.4	0.8	0.7	0.8	0.9
20%	1.0	0.4	0.7	0.1	**-0.3**	**0.0**	0.7	0.8	0.8	0.7	0.7	1.2
30%	1.0	0.9	0.8	0.5	0.1	**0.0**	0.8	0.8	0.8	0.7	0.9	0.9
40%	1.0	0.9	0.8	0.6	0.1	0.2	0.9	0.8	0.8	0.7	0.9	1.0
50%	1.0	0.9	0.8	0.6	0.6	0.2	0.8	0.8	0.8	0.7	0.9	1.0
60%	0.9	0.9	0.8	0.8	1.1	0.3	0.8	0.9	0.8	0.7	0.8	1.1
70%	1.0	1.0	0.8	0.9	0.9	0.7	0.9	0.9	0.9	0.7	0.8	1.0
80%	1.0	0.9	0.8	0.9	0.9	0.9	0.9	0.9	0.8	0.7	0.8	1.0
90%	1.0	1.0	1.0	0.9	1.0	0.9	1.0	1.1	0.9	0.8	0.9	1.0
Long Term												
Full Simulation Period[a]	0.9	0.7	0.7	0.5	0.4	0.3	0.7	0.7	0.7	0.7	0.8	0.9
Water Year Types[b]												
Wet (31%)	0.9	0.3	0.2	0.1	**-0.2**	**-0.3**	0.3	0.1	0.2	0.6	0.8	0.9
Above Normal (25%)	1.0	0.9	0.9	**-0.3**	**-0.2**	**0.0**	0.4	0.7	0.7	0.8	0.9	1.0
Below Normal (6%)	0.9	1.0	1.0	0.7	**0.0**	0.3	0.9	0.7	0.9	0.7	0.8	1.0
Dry (13%)	1.0	0.8	0.8	0.8	0.8	0.4	0.9	0.9	0.8	0.7	0.7	0.9
Critical (25%)	1.0	0.9	0.8	0.8	0.9	0.8	0.9	1.1	0.9	0.7	0.9	1.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-31-1-11. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.6	5.2	7.4	7.1	8.3	7.7	5.7	4.2	3.8	4.2	3.9	3.9
20%	3.3	4.5	4.0	6.3	7.5	6.5	3.7	3.5	3.6	4.0	3.9	3.5
30%	3.2	3.4	3.9	5.1	5.4	5.4	3.5	3.5	3.6	4.0	3.7	3.5
40%	3.2	3.3	3.8	4.2	4.6	4.4	3.3	3.4	3.5	3.9	3.7	3.4
50%	3.2	3.3	3.6	4.1	4.0	4.2	3.2	3.3	3.4	3.9	3.6	3.4
60%	3.2	3.3	3.5	3.8	3.5	4.1	3.2	3.1	3.4	3.9	3.6	3.3
70%	3.1	3.2	3.5	3.6	3.4	3.5	3.1	3.1	3.3	3.8	3.6	3.3
80%	3.0	3.0	3.3	3.3	3.3	3.1	3.0	3.1	3.3	3.8	3.5	3.3
90%	3.0	2.9	3.1	3.2	3.0	3.0	2.9	2.8	3.2	3.6	3.4	3.2
Long Term												
Full Simulation Period[a]	3.2	3.7	4.3	4.7	4.9	4.8	3.8	3.5	3.6	3.9	3.7	3.5
Water Year Types[b]												
Wet (31%)	3.5	5.1	6.8	6.1	7.4	7.3	5.4	4.5	4.4	4.2	3.9	4.0
Above Normal (25%)	3.0	3.1	3.7	7.1	6.9	6.0	3.9	3.6	3.4	3.7	3.6	3.4
Below Normal (6%)	3.2	3.2	3.1	4.2	4.8	4.2	3.2	3.4	3.3	3.6	3.5	3.3
Dry (13%)	3.2	3.4	3.6	3.6	3.5	4.1	3.2	3.3	3.6	3.9	3.8	3.4
Critical (25%)	3.2	3.2	3.5	3.5	3.2	3.2	3.0	2.9	3.3	3.8	3.5	3.3

Alternative 7 (LLT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	5.4	7.6	7.1	8.1	7.4	5.8	4.6	4.6	4.9	4.7	4.9
20%	4.3	4.8	4.8	6.7	7.3	6.6	4.4	4.3	4.5	4.8	4.6	4.8
30%	4.2	4.3	4.7	5.5	5.6	5.4	4.3	4.3	4.5	4.7	4.6	4.4
40%	4.2	4.3	4.6	4.7	4.7	4.6	4.2	4.2	4.4	4.7	4.5	4.3
50%	4.2	4.2	4.5	4.7	4.6	4.5	4.1	4.2	4.4	4.7	4.5	4.3
60%	4.1	4.2	4.3	4.5	4.6	4.4	4.0	4.1	4.3	4.6	4.4	4.3
70%	4.1	4.2	4.3	4.5	4.3	4.2	4.0	4.1	4.2	4.5	4.4	4.3
80%	4.1	4.0	4.1	4.2	4.2	4.0	4.0	4.0	4.2	4.5	4.4	4.2
90%	4.0	3.9	4.1	4.1	4.0	3.9	3.9	3.9	4.2	4.4	4.3	4.1
Long Term												
Full Simulation Period[a]	4.2	4.5	5.1	5.2	5.4	5.2	4.5	4.3	4.4	4.7	4.5	4.4
Water Year Types[b]												
Wet (31%)	4.4	5.4	7.2	6.2	7.4	7.1	5.8	4.7	4.7	4.9	4.7	5.0
Above Normal (25%)	3.9	4.1	4.6	7.1	7.1	5.9	4.4	4.3	4.3	4.5	4.5	4.4
Below Normal (6%)	4.1	4.2	4.1	4.9	4.8	4.5	4.1	4.1	4.2	4.4	4.3	4.2
Dry (13%)	4.2	4.2	4.4	4.4	4.3	4.6	4.1	4.2	4.4	4.7	4.5	4.2
Critical (25%)	4.1	4.2	4.3	4.3	4.2	4.0	3.9	4.1	4.3	4.5	4.4	4.2

Alternative 7 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.8	0.2	0.2	**0.0**	**-0.2**	**-0.3**	0.1	0.5	0.8	0.8	0.8	1.0
20%	1.0	0.3	0.8	0.4	**-0.2**	0.0	0.7	0.8	0.9	0.8	0.8	1.3
30%	1.0	0.9	0.8	0.4	0.2	**0.0**	0.8	0.8	0.9	0.8	0.9	0.9
40%	1.0	1.0	0.8	0.5	0.2	0.2	0.9	0.8	0.9	0.7	0.9	0.9
50%	1.0	0.9	0.8	0.6	0.6	0.3	0.8	0.9	0.9	0.8	0.9	0.9
60%	1.0	0.9	0.8	0.8	1.1	0.3	0.9	1.0	1.0	0.8	0.9	0.9
70%	1.0	1.0	0.8	0.9	0.9	0.7	0.9	0.9	0.9	0.7	0.8	1.0
80%	1.0	1.0	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.7	0.9	1.0
90%	1.0	1.0	1.0	1.0	1.0	0.9	1.0	1.1	1.0	0.8	0.9	1.0
Long Term												
Full Simulation Period[a]	0.9	0.8	0.7	0.5	0.5	0.3	0.7	0.8	0.8	0.7	0.8	0.9
Water Year Types[b]												
Wet (31%)	0.9	0.3	0.3	0.2	**0.0**	**-0.2**	0.4	0.2	0.3	0.7	0.8	1.0
Above Normal (25%)	1.0	0.9	0.9	**0.0**	0.1	**0.0**	0.4	0.7	0.9	0.8	0.9	1.0
Below Normal (6%)	0.9	1.0	1.0	0.7	**0.0**	0.4	0.9	0.7	0.9	0.7	0.8	0.9
Dry (13%)	1.0	0.8	0.8	0.8	0.8	0.5	0.9	0.9	0.8	0.8	0.8	0.8
Critical (25%)	1.0	1.0	0.8	0.8	0.9	0.8	0.9	1.1	1.0	0.7	0.9	1.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-31-1-12. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.6	5.2	7.4	7.1	8.3	7.7	5.7	4.2	3.8	4.2	3.9	3.9
20%	3.3	4.5	4.0	6.3	7.5	6.5	3.7	3.5	3.6	4.0	3.9	3.5
30%	3.2	3.4	3.9	5.1	5.4	5.4	3.5	3.5	3.6	4.0	3.7	3.5
40%	3.2	3.3	3.8	4.2	4.6	4.4	3.3	3.4	3.5	3.9	3.7	3.4
50%	3.2	3.3	3.6	4.1	4.0	4.2	3.2	3.3	3.4	3.9	3.6	3.4
60%	3.2	3.3	3.5	3.8	3.5	4.1	3.2	3.1	3.4	3.9	3.6	3.3
70%	3.1	3.2	3.5	3.6	3.4	3.5	3.1	3.1	3.3	3.8	3.6	3.3
80%	3.0	3.0	3.3	3.3	3.3	3.1	3.0	3.1	3.3	3.8	3.5	3.3
90%	3.0	2.9	3.1	3.2	3.0	3.0	2.9	2.8	3.2	3.6	3.4	3.2
Long Term												
Full Simulation Period[a]	3.2	3.7	4.3	4.7	4.9	4.8	3.8	3.5	3.6	3.9	3.7	3.5
Water Year Types[b]												
Wet (31%)	3.5	5.1	6.8	6.1	7.4	7.3	5.4	4.5	4.4	4.2	3.9	4.0
Above Normal (25%)	3.0	3.1	3.7	7.1	6.9	6.0	3.9	3.6	3.4	3.7	3.6	3.4
Below Normal (6%)	3.2	3.2	3.1	4.2	4.8	4.2	3.2	3.4	3.3	3.6	3.5	3.3
Dry (13%)	3.2	3.4	3.6	3.6	3.5	4.1	3.2	3.3	3.6	3.9	3.8	3.4
Critical (25%)	3.2	3.2	3.5	3.5	3.2	3.2	3.0	2.9	3.3	3.8	3.5	3.3

Alternative 8 (LLT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	5.5	7.6	7.1	8.1	7.4	6.0	4.7	4.6	4.8	4.6	4.9
20%	4.2	4.9	4.7	6.7	7.3	6.5	4.5	4.4	4.5	4.6	4.5	4.8
30%	4.2	4.3	4.7	5.6	5.9	5.6	4.4	4.4	4.4	4.6	4.5	4.3
40%	4.1	4.3	4.6	5.0	4.7	4.8	4.2	4.3	4.4	4.6	4.5	4.3
50%	4.0	4.2	4.5	4.8	4.7	4.6	4.2	4.3	4.4	4.6	4.5	4.3
60%	4.0	4.2	4.3	4.6	4.6	4.5	4.1	4.2	4.3	4.5	4.4	4.3
70%	4.0	4.1	4.3	4.5	4.3	4.3	4.1	4.2	4.2	4.4	4.3	4.2
80%	3.9	3.9	4.1	4.2	4.2	4.1	4.0	4.1	4.2	4.4	4.3	4.1
90%	3.9	3.9	4.1	4.1	4.1	4.0	4.0	4.1	4.2	4.3	4.3	4.1
Long Term												
Full Simulation Period[a]	4.1	4.5	5.1	5.3	5.5	5.3	4.6	4.4	4.4	4.6	4.5	4.4
Water Year Types[b]												
Wet (31%)	4.3	5.5	7.2	6.3	7.4	7.1	5.9	4.9	4.7	4.8	4.6	4.9
Above Normal (25%)	3.9	4.0	4.6	7.2	7.1	6.0	4.5	4.4	4.3	4.4	4.4	4.3
Below Normal (6%)	4.0	4.1	4.1	5.0	5.1	4.7	4.1	4.2	4.2	4.2	4.2	4.1
Dry (13%)	4.0	4.2	4.4	4.5	4.4	4.7	4.2	4.2	4.4	4.6	4.5	4.2
Critical (25%)	4.0	4.1	4.3	4.4	4.2	4.1	4.0	4.1	4.2	4.5	4.4	4.2

Alternative 8 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.8	0.3	0.2	0.0	**-0.2**	**-0.3**	0.2	0.5	0.8	0.6	0.7	1.0
20%	0.9	0.4	0.7	0.4	**-0.2**	0.0	0.8	0.9	0.8	0.6	0.7	1.2
30%	0.9	0.9	0.8	0.4	0.5	0.2	0.9	0.9	0.8	0.7	0.9	0.9
40%	0.9	0.9	0.8	0.8	0.1	0.3	1.0	0.9	0.9	0.7	0.8	0.9
50%	0.8	0.9	0.8	0.7	0.7	0.4	0.9	0.9	0.9	0.7	0.8	0.9
60%	0.8	0.9	0.8	0.8	1.1	0.4	0.9	1.1	1.0	0.7	0.8	1.0
70%	0.9	1.0	0.8	0.9	0.9	0.8	1.0	1.0	0.9	0.6	0.7	1.0
80%	0.9	0.9	0.8	0.9	0.9	1.0	1.0	1.0	0.8	0.7	0.8	0.9
90%	0.9	1.0	1.0	1.0	1.1	1.0	1.1	1.2	0.9	0.7	0.8	0.9
Long Term												
Full Simulation Period[a]	0.9	0.8	0.7	0.6	0.5	0.4	0.8	0.9	0.8	0.6	0.8	0.9
Water Year Types[b]												
Wet (31%)	0.8	0.5	0.4	0.3	**-0.1**	**-0.2**	0.4	0.3	0.3	0.6	0.7	0.9
Above Normal (25%)	1.0	0.9	0.9	0.1	0.2	0.0	0.5	0.8	0.8	0.7	0.8	1.0
Below Normal (6%)	0.8	1.0	1.0	0.8	0.3	0.5	0.9	0.9	0.8	0.6	0.7	0.8
Dry (13%)	0.9	0.8	0.8	0.8	0.9	0.6	1.0	0.9	0.8	0.6	0.7	0.8
Critical (25%)	0.9	0.9	0.8	0.8	1.0	0.9	1.0	1.2	1.0	0.7	0.9	0.9

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-31-1-13. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.6	5.2	7.4	7.1	8.3	7.7	5.7	4.2	3.8	4.2	3.9	3.9
20%	3.3	4.5	4.0	6.3	7.5	6.5	3.7	3.5	3.6	4.0	3.9	3.5
30%	3.2	3.4	3.9	5.1	5.4	5.4	3.5	3.5	3.6	4.0	3.7	3.5
40%	3.2	3.3	3.8	4.2	4.6	4.4	3.3	3.4	3.5	3.9	3.7	3.4
50%	3.2	3.3	3.6	4.1	4.0	4.2	3.2	3.3	3.4	3.9	3.6	3.4
60%	3.2	3.3	3.5	3.8	3.5	4.1	3.2	3.1	3.4	3.9	3.6	3.3
70%	3.1	3.2	3.5	3.6	3.4	3.5	3.1	3.1	3.3	3.8	3.6	3.3
80%	3.0	3.0	3.3	3.3	3.3	3.1	3.0	3.1	3.3	3.8	3.5	3.3
90%	3.0	2.9	3.1	3.2	3.0	3.0	2.9	2.8	3.2	3.6	3.4	3.2
Long Term												
Full Simulation Period[a]	3.2	3.7	4.3	4.7	4.9	4.8	3.8	3.5	3.6	3.9	3.7	3.5
Water Year Types[b]												
Wet (31%)	3.5	5.1	6.8	6.1	7.4	7.3	5.4	4.5	4.4	4.2	3.9	4.0
Above Normal (25%)	3.0	3.1	3.7	7.1	6.9	6.0	3.9	3.6	3.4	3.7	3.6	3.4
Below Normal (6%)	3.2	3.2	3.1	4.2	4.8	4.2	3.2	3.4	3.3	3.6	3.5	3.3
Dry (13%)	3.2	3.4	3.6	3.6	3.5	4.1	3.2	3.3	3.6	3.9	3.8	3.4
Critical (25%)	3.2	3.2	3.5	3.5	3.2	3.2	3.0	2.9	3.3	3.8	3.5	3.3

Alternative 9 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	5.5	8.2	8.1	9.3	8.5	6.4	4.8	4.6	4.9	4.8	5.2
20%	4.3	4.8	4.6	7.5	8.5	7.5	4.4	4.3	4.5	4.8	4.7	5.0
30%	4.3	4.4	4.6	5.8	6.1	6.0	4.3	4.2	4.5	4.8	4.6	4.4
40%	4.1	4.3	4.5	4.8	5.1	4.9	4.1	4.2	4.4	4.7	4.6	4.4
50%	4.1	4.2	4.4	4.8	4.6	4.7	4.0	4.2	4.3	4.7	4.6	4.3
60%	4.1	4.2	4.3	4.5	4.2	4.4	4.0	4.1	4.3	4.7	4.5	4.3
70%	4.0	4.1	4.3	4.4	4.2	4.2	4.0	4.1	4.3	4.6	4.5	4.3
80%	4.0	3.9	4.1	4.1	4.1	4.0	4.0	4.0	4.2	4.5	4.4	4.2
90%	4.0	3.9	4.1	4.0	3.9	3.9	3.8	3.9	4.2	4.4	4.3	4.1
Long Term												
Full Simulation Period[a]	4.2	4.6	5.2	5.5	5.7	5.5	4.6	4.3	4.4	4.7	4.6	4.5
Water Year Types[b]												
Wet (31%)	4.4	5.6	7.7	6.9	8.4	8.0	6.3	4.8	4.8	4.9	4.8	5.2
Above Normal (25%)	3.9	4.0	4.5	8.0	8.0	6.7	4.5	4.2	4.2	4.6	4.5	4.4
Below Normal (6%)	4.1	4.3	4.1	4.9	5.1	4.7	4.0	4.0	4.3	4.4	4.4	4.2
Dry (13%)	4.2	4.2	4.3	4.4	4.3	4.7	4.1	4.3	4.5	4.7	4.6	4.3
Critical (25%)	4.1	4.2	4.3	4.3	4.1	4.0	3.9	4.0	4.2	4.6	4.4	4.2

Alternative 9 (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.8	0.3	0.8	1.0	0.9	0.8	0.6	0.6	0.8	0.7	0.8	1.3
20%	1.0	0.4	0.6	1.2	0.9	0.9	0.7	0.8	0.9	0.8	0.8	1.5
30%	1.0	1.0	0.7	0.7	0.8	0.6	0.8	0.8	0.9	0.8	1.0	0.9
40%	0.9	1.0	0.7	0.6	0.5	0.4	0.8	0.7	0.9	0.8	0.9	0.9
50%	0.9	0.9	0.8	0.7	0.6	0.5	0.8	0.8	0.9	0.8	1.0	0.9
60%	0.9	0.9	0.8	0.7	0.7	0.4	0.8	1.0	0.9	0.8	0.9	1.0
70%	1.0	1.0	0.8	0.8	0.8	0.7	0.8	1.0	0.9	0.8	0.9	1.0
80%	1.0	1.0	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.8	0.9	1.0
90%	1.0	1.0	1.0	0.9	0.9	0.9	0.9	1.0	0.9	0.8	0.9	1.0
Long Term												
Full Simulation Period[a]	0.9	0.8	0.8	0.8	0.8	0.7	0.8	0.8	0.8	0.8	0.9	1.0
Water Year Types[b]												
Wet (31%)	0.9	0.5	0.9	0.9	0.9	0.7	0.9	0.3	0.4	0.7	0.9	1.2
Above Normal (25%)	0.9	0.9	0.8	0.9	1.0	0.7	0.6	0.6	0.8	0.9	1.0	1.1
Below Normal (6%)	0.9	1.1	1.0	0.7	0.3	0.5	0.8	0.6	0.9	0.7	0.8	1.0
Dry (13%)	1.0	0.8	0.8	0.7	0.8	0.6	0.8	1.0	0.9	0.8	0.8	0.9
Critical (25%)	0.9	1.0	0.8	0.8	0.8	0.8	0.9	1.1	1.0	0.8	0.9	1.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-31-1-14. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.9	5.9	8.4	8.3	9.2	8.5	6.8	5.4	5.3	5.6	5.4	5.7
20%	4.8	5.3	5.3	7.8	8.5	7.8	5.1	5.0	5.1	5.6	5.3	5.4
30%	4.7	5.0	5.3	6.5	6.7	6.6	4.9	4.9	5.0	5.5	5.2	5.0
40%	4.7	4.8	5.3	5.5	5.7	5.5	4.7	4.8	5.0	5.5	5.2	4.9
50%	4.7	4.7	5.0	5.5	5.3	5.4	4.6	4.6	4.9	5.5	5.1	4.8
60%	4.6	4.7	4.9	5.2	4.9	5.1	4.6	4.6	4.9	5.4	5.1	4.8
70%	4.6	4.6	4.8	5.1	4.8	4.8	4.5	4.6	4.8	5.4	5.0	4.8
80%	4.5	4.5	4.7	5.0	4.7	4.5	4.5	4.5	4.8	5.2	4.9	4.8
90%	4.5	4.4	4.7	4.6	4.5	4.4	4.3	4.4	4.8	5.1	4.8	4.6
Long Term												
Full Simulation Period[a]	4.7	5.0	5.7	6.0	6.2	6.0	5.1	4.8	5.0	5.4	5.1	5.0
Water Year Types[b]												
Wet (31%)	4.9	6.0	7.9	7.4	8.5	8.1	6.6	5.3	5.4	5.6	5.4	5.7
Above Normal (25%)	4.5	4.6	5.1	8.2	8.2	7.2	5.1	4.8	4.8	5.4	5.1	5.0
Below Normal (6%)	4.7	4.8	4.8	5.6	5.7	5.3	4.6	4.6	4.9	5.0	4.9	4.8
Dry (13%)	4.7	4.8	5.0	5.0	4.9	5.3	4.6	4.8	5.0	5.5	5.2	4.8
Critical (25%)	4.7	4.7	4.8	5.0	4.6	4.5	4.4	4.5	4.8	5.2	4.9	4.7

Alternative 1A,1B,1C (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.5	5.2	7.2	6.8	8.1	7.4	5.8	4.7	4.7	5.0	4.6	4.6
20%	4.5	4.8	4.7	6.3	7.2	6.6	4.4	4.4	4.5	4.7	4.6	4.4
30%	4.4	4.4	4.7	5.6	5.4	5.5	4.3	4.3	4.5	4.7	4.6	4.4
40%	4.4	4.2	4.7	4.9	4.7	4.6	4.2	4.2	4.4	4.7	4.6	4.3
50%	4.2	4.2	4.5	4.7	4.6	4.4	4.1	4.2	4.3	4.7	4.5	4.3
60%	4.1	4.2	4.4	4.5	4.3	4.4	4.1	4.2	4.3	4.7	4.4	4.3
70%	4.1	4.1	4.3	4.4	4.3	4.2	4.1	4.1	4.2	4.5	4.4	4.3
80%	4.1	3.9	4.2	4.2	4.2	4.0	4.0	4.1	4.2	4.4	4.3	4.1
90%	4.0	3.9	4.1	4.1	4.1	3.9	3.9	3.9	4.2	4.3	4.2	4.1
Long Term												
Full Simulation Period[a]	4.2	4.4	5.0	5.2	5.4	5.2	4.5	4.3	4.4	4.6	4.5	4.4
Water Year Types[b]												
Wet (31%)	4.4	5.4	7.0	6.3	7.3	7.1	5.8	4.7	4.7	4.8	4.7	4.7
Above Normal (25%)	4.1	4.0	4.6	6.7	7.2	6.1	4.3	4.2	4.3	4.5	4.4	4.2
Below Normal (6%)	4.5	4.2	4.2	4.9	4.7	4.5	4.0	4.1	4.2	4.2	4.2	4.1
Dry (13%)	4.1	4.2	4.5	4.5	4.3	4.6	4.1	4.3	4.4	4.7	4.5	4.3
Critical (25%)	4.3	4.1	4.3	4.3	4.2	4.0	4.0	4.0	4.2	4.5	4.3	4.2

Alternative 1A,1B,1C (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-0.4**	**-0.7**	**-1.2**	**-1.5**	**-1.1**	**-1.1**	**-1.0**	**-0.7**	**-0.6**	**-0.6**	**-0.7**	**-1.1**
20%	**-0.3**	**-0.5**	**-0.6**	**-1.5**	**-1.4**	**-1.2**	**-0.7**	**-0.6**	**-0.6**	**-0.8**	**-0.6**	**-0.9**
30%	**-0.4**	**-0.6**	**-0.6**	**-0.8**	**-1.3**	**-1.0**	**-0.6**	**-0.6**	**-0.6**	**-0.8**	**-0.7**	**-0.6**
40%	**-0.3**	**-0.6**	**-0.6**	**-0.6**	**-1.0**	**-0.9**	**-0.5**	**-0.5**	**-0.6**	**-0.8**	**-0.6**	**-0.5**
50%	**-0.5**	**-0.6**	**-0.5**	**-0.7**	**-0.7**	**-1.0**	**-0.5**	**-0.4**	**-0.6**	**-0.8**	**-0.6**	**-0.5**
60%	**-0.5**	**-0.5**	**-0.5**	**-0.6**	**-0.5**	**-0.7**	**-0.5**	**-0.4**	**-0.6**	**-0.8**	**-0.7**	**-0.5**
70%	**-0.5**	**-0.5**	**-0.5**	**-0.7**	**-0.5**	**-0.6**	**-0.5**	**-0.4**	**-0.6**	**-0.9**	**-0.6**	**-0.5**
80%	**-0.4**	**-0.6**	**-0.6**	**-0.8**	**-0.5**	**-0.5**	**-0.4**	**-0.5**	**-0.6**	**-0.8**	**-0.7**	**-0.6**
90%	**-0.5**	**-0.5**	**-0.5**	**-0.5**	**-0.4**	**-0.5**	**-0.5**	**-0.4**	**-0.6**	**-0.8**	**-0.6**	**-0.5**
Long Term												
Full Simulation Period[a]	**-0.5**	**-0.6**	**-0.6**	**-0.8**	**-0.8**	**-0.8**	**-0.6**	**-0.5**	**-0.6**	**-0.8**	**-0.7**	**-0.7**
Water Year Types[b]												
Wet (31%)	**-0.6**	**-0.6**	**-1.0**	**-1.1**	**-1.1**	**-1.0**	**-0.8**	**-0.6**	**-0.7**	**-0.8**	**-0.7**	**-1.0**
Above Normal (25%)	**-0.4**	**-0.6**	**-0.6**	**-1.4**	**-1.0**	**-1.1**	**-0.8**	**-0.6**	**-0.6**	**-0.8**	**-0.7**	**-0.8**
Below Normal (6%)	**-0.2**	**-0.7**	**-0.6**	**-0.7**	**-1.0**	**-0.9**	**-0.6**	**-0.5**	**-0.7**	**-0.9**	**-0.7**	**-0.6**
Dry (13%)	**-0.6**	**-0.6**	**-0.5**	**-0.5**	**-0.6**	**-0.8**	**-0.5**	**-0.5**	**-0.6**	**-0.7**	**-0.6**	**-0.5**
Critical (25%)	**-0.4**	**-0.6**	**-0.5**	**-0.6**	**-0.4**	**-0.5**	**-0.5**	**-0.4**	**-0.6**	**-0.7**	**-0.6**	**-0.5**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-31-1-15. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.9	5.9	8.4	8.3	9.2	8.5	6.8	5.4	5.3	5.6	5.4	5.7
20%	4.8	5.3	5.3	7.8	8.5	7.8	5.1	5.0	5.1	5.6	5.3	5.4
30%	4.7	5.0	5.3	6.5	6.7	6.6	4.9	4.9	5.0	5.5	5.2	5.0
40%	4.7	4.8	5.3	5.5	5.7	5.5	4.7	4.8	5.0	5.5	5.2	4.9
50%	4.7	4.7	5.0	5.5	5.3	5.4	4.6	4.6	4.9	5.5	5.1	4.8
60%	4.6	4.7	4.9	5.2	4.9	5.1	4.6	4.6	4.9	5.4	5.1	4.8
70%	4.6	4.6	4.8	5.1	4.8	4.8	4.5	4.6	4.8	5.4	5.0	4.8
80%	4.5	4.5	4.7	5.0	4.7	4.5	4.5	4.5	4.8	5.2	4.9	4.8
90%	4.5	4.4	4.7	4.6	4.5	4.4	4.3	4.4	4.8	5.1	4.8	4.6
Long Term												
Full Simulation Period[a]	4.7	5.0	5.7	6.0	6.2	6.0	5.1	4.8	5.0	5.4	5.1	5.0
Water Year Types[b]												
Wet (31%)	4.9	6.0	7.9	7.4	8.5	8.1	6.6	5.3	5.4	5.6	5.4	5.7
Above Normal (25%)	4.5	4.6	5.1	8.2	8.2	7.2	5.1	4.8	4.8	5.4	5.1	5.0
Below Normal (6%)	4.7	4.8	4.8	5.6	5.7	5.3	4.6	4.6	4.9	5.0	4.9	4.8
Dry (13%)	4.7	4.8	5.0	5.0	4.9	5.3	4.6	4.8	5.0	5.5	5.2	4.8
Critical (25%)	4.7	4.7	4.8	5.0	4.6	4.5	4.4	4.5	4.8	5.2	4.9	4.7

Alternative 2A,2B,2C (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	5.1	7.0	6.8	7.9	7.3	5.8	4.7	4.7	5.0	4.6	4.9
20%	4.3	4.7	4.7	6.3	7.2	6.5	4.4	4.4	4.5	4.8	4.6	4.8
30%	4.3	4.3	4.7	5.6	5.4	5.3	4.3	4.3	4.5	4.7	4.6	4.4
40%	4.2	4.2	4.7	4.7	4.6	4.6	4.2	4.2	4.4	4.7	4.5	4.3
50%	4.2	4.2	4.5	4.7	4.6	4.4	4.1	4.2	4.3	4.7	4.5	4.3
60%	4.1	4.2	4.4	4.5	4.3	4.4	4.0	4.1	4.3	4.6	4.4	4.3
70%	4.1	4.1	4.3	4.5	4.2	4.2	4.0	4.1	4.3	4.5	4.4	4.3
80%	4.0	4.0	4.2	4.4	4.2	4.0	4.0	4.1	4.2	4.5	4.3	4.2
90%	4.0	3.9	4.1	4.2	4.0	3.9	3.8	3.9	4.2	4.3	4.3	4.1
Long Term												
Full Simulation Period[a]	4.2	4.4	5.0	5.2	5.3	5.1	4.5	4.3	4.4	4.6	4.5	4.4
Water Year Types[b]												
Wet (31%)	4.4	5.3	6.9	6.3	7.3	7.0	5.8	4.7	4.7	4.8	4.7	5.0
Above Normal (25%)	4.0	4.0	4.6	6.6	6.9	6.1	4.3	4.3	4.2	4.6	4.4	4.3
Below Normal (6%)	4.1	4.1	4.2	4.9	4.6	4.4	4.1	4.1	4.3	4.2	4.2	4.1
Dry (13%)	4.1	4.2	4.4	4.4	4.3	4.4	4.1	4.3	4.5	4.7	4.5	4.3
Critical (25%)	4.2	4.1	4.4	4.4	4.1	4.0	3.9	4.0	4.2	4.5	4.3	4.2

Alternative 2A,2B,2C (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-0.5**	**-0.7**	**-1.3**	**-1.6**	**-1.3**	**-1.2**	**-1.0**	**-0.7**	**-0.6**	**-0.6**	**-0.7**	**-0.8**
20%	**-0.5**	**-0.6**	**-0.6**	**-1.5**	**-1.3**	**-1.2**	**-0.7**	**-0.5**	**-0.6**	**-0.8**	**-0.7**	**-0.6**
30%	**-0.4**	**-0.7**	**-0.6**	**-0.9**	**-1.3**	**-1.3**	**-0.5**	**-0.6**	**-0.6**	**-0.8**	**-0.7**	**-0.6**
40%	**-0.5**	**-0.6**	**-0.6**	**-0.8**	**-1.0**	**-0.9**	**-0.5**	**-0.5**	**-0.6**	**-0.8**	**-0.7**	**-0.6**
50%	**-0.5**	**-0.6**	**-0.5**	**-0.8**	**-0.7**	**-1.0**	**-0.6**	**-0.4**	**-0.6**	**-0.8**	**-0.6**	**-0.5**
60%	**-0.5**	**-0.5**	**-0.5**	**-0.6**	**-0.5**	**-0.7**	**-0.5**	**-0.4**	**-0.6**	**-0.8**	**-0.7**	**-0.5**
70%	**-0.5**	**-0.5**	**-0.5**	**-0.6**	**-0.5**	**-0.6**	**-0.5**	**-0.5**	**-0.6**	**-0.9**	**-0.6**	**-0.5**
80%	**-0.5**	**-0.6**	**-0.6**	**-0.6**	**-0.5**	**-0.5**	**-0.5**	**-0.5**	**-0.6**	**-0.8**	**-0.6**	**-0.5**
90%	**-0.6**	**-0.5**	**-0.6**	**-0.4**	**-0.4**	**-0.5**	**-0.5**	**-0.4**	**-0.6**	**-0.8**	**-0.6**	**-0.5**
Long Term												
Full Simulation Period[a]	**-0.5**	**-0.6**	**-0.7**	**-0.8**	**-0.8**	**-0.9**	**-0.6**	**-0.5**	**-0.6**	**-0.8**	**-0.7**	**-0.6**
Water Year Types[b]												
Wet (31%)	**-0.5**	**-0.8**	**-1.0**	**-1.1**	**-1.2**	**-1.1**	**-0.8**	**-0.7**	**-0.7**	**-0.8**	**-0.7**	**-0.7**
Above Normal (25%)	**-0.4**	**-0.6**	**-0.6**	**-1.6**	**-1.3**	**-1.1**	**-0.8**	**-0.6**	**-0.6**	**-0.8**	**-0.7**	**-0.7**
Below Normal (6%)	**-0.6**	**-0.7**	**-0.6**	**-0.7**	**-1.0**	**-0.9**	**-0.5**	**-0.5**	**-0.6**	**-0.8**	**-0.7**	**-0.7**
Dry (13%)	**-0.5**	**-0.6**	**-0.6**	**-0.6**	**-0.6**	**-0.9**	**-0.5**	**-0.5**	**-0.6**	**-0.8**	**-0.7**	**-0.5**
Critical (25%)	**-0.5**	**-0.5**	**-0.5**	**-0.6**	**-0.5**	**-0.5**	**-0.5**	**-0.4**	**-0.6**	**-0.7**	**-0.6**	**-0.5**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-31-1-16. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.9	5.9	8.4	8.3	9.2	8.5	6.8	5.4	5.3	5.6	5.4	5.7
20%	4.8	5.3	5.3	7.8	8.5	7.8	5.1	5.0	5.1	5.6	5.3	5.4
30%	4.7	5.0	5.3	6.5	6.7	6.6	4.9	4.9	5.0	5.5	5.2	5.0
40%	4.7	4.8	5.3	5.5	5.7	5.5	4.7	4.8	5.0	5.5	5.2	4.9
50%	4.7	4.7	5.0	5.5	5.3	5.4	4.6	4.6	4.9	5.5	5.1	4.8
60%	4.6	4.7	4.9	5.2	4.9	5.1	4.6	4.6	4.9	5.4	5.1	4.8
70%	4.6	4.6	4.8	5.1	4.8	4.8	4.5	4.6	4.8	5.4	5.0	4.8
80%	4.5	4.5	4.7	5.0	4.7	4.5	4.5	4.5	4.8	5.2	4.9	4.8
90%	4.5	4.4	4.7	4.6	4.5	4.4	4.3	4.4	4.8	5.1	4.8	4.6
Long Term												
Full Simulation Period[a]	4.7	5.0	5.7	6.0	6.2	6.0	5.1	4.8	5.0	5.4	5.1	5.0
Water Year Types[b]												
Wet (31%)	4.9	6.0	7.9	7.4	8.5	8.1	6.6	5.3	5.4	5.6	5.4	5.7
Above Normal (25%)	4.5	4.6	5.1	8.2	8.2	7.2	5.1	4.8	4.8	5.4	5.1	5.0
Below Normal (6%)	4.7	4.8	4.8	5.6	5.7	5.3	4.6	4.6	4.9	5.0	4.9	4.8
Dry (13%)	4.7	4.8	5.0	5.0	4.9	5.3	4.6	4.8	5.0	5.5	5.2	4.8
Critical (25%)	4.7	4.7	4.8	5.0	4.6	4.5	4.4	4.5	4.8	5.2	4.9	4.7

Alternative 3 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.6	5.3	7.7	7.4	8.4	7.7	6.0	4.7	4.7	5.0	4.7	4.6
20%	4.5	4.8	4.7	6.9	7.6	6.8	4.4	4.5	4.6	4.7	4.6	4.4
30%	4.4	4.2	4.7	5.6	5.8	5.6	4.3	4.3	4.4	4.7	4.6	4.4
40%	4.3	4.2	4.7	4.9	4.8	4.7	4.2	4.2	4.4	4.7	4.5	4.3
50%	4.2	4.1	4.4	4.7	4.6	4.6	4.1	4.2	4.3	4.7	4.5	4.3
60%	4.1	4.1	4.4	4.5	4.3	4.4	4.1	4.1	4.3	4.6	4.4	4.3
70%	4.1	4.1	4.3	4.4	4.3	4.3	4.0	4.1	4.2	4.5	4.4	4.3
80%	4.1	4.0	4.2	4.3	4.2	4.0	4.0	4.1	4.2	4.4	4.3	4.2
90%	4.0	3.9	4.1	4.2	4.0	3.9	3.8	3.9	4.2	4.3	4.2	4.1
Long Term												
Full Simulation Period[a]	4.3	4.5	5.1	5.3	5.5	5.3	4.6	4.3	4.4	4.6	4.5	4.4
Water Year Types[b]												
Wet (31%)	4.4	5.5	7.2	6.4	7.6	7.3	5.9	4.8	4.7	4.8	4.7	4.7
Above Normal (25%)	4.2	4.0	4.5	7.2	7.3	6.2	4.4	4.2	4.3	4.5	4.4	4.2
Below Normal (6%)	4.3	4.1	4.2	4.9	4.8	4.5	4.0	4.1	4.2	4.1	4.2	4.2
Dry (13%)	4.1	4.2	4.4	4.5	4.3	4.7	4.1	4.3	4.4	4.7	4.5	4.3
Critical (25%)	4.3	4.1	4.3	4.4	4.1	4.0	3.9	4.0	4.2	4.5	4.3	4.3

Alternative 3 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-0.3**	**-0.5**	**-0.7**	**-1.0**	**-0.9**	**-0.9**	**-0.9**	**-0.6**	**-0.6**	**-0.6**	**-0.7**	**-1.1**
20%	**-0.3**	**-0.5**	**-0.6**	**-1.0**	**-0.9**	**-1.0**	**-0.7**	**-0.5**	**-0.6**	**-0.8**	**-0.6**	**-1.0**
30%	**-0.3**	**-0.8**	**-0.6**	**-0.8**	**-0.9**	**-0.9**	**-0.5**	**-0.6**	**-0.6**	**-0.8**	**-0.7**	**-0.6**
40%	**-0.4**	**-0.6**	**-0.6**	**-0.6**	**-0.8**	**-0.8**	**-0.5**	**-0.5**	**-0.6**	**-0.8**	**-0.7**	**-0.6**
50%	**-0.5**	**-0.6**	**-0.5**	**-0.8**	**-0.7**	**-0.9**	**-0.6**	**-0.4**	**-0.6**	**-0.8**	**-0.6**	**-0.5**
60%	**-0.5**	**-0.5**	**-0.5**	**-0.6**	**-0.5**	**-0.7**	**-0.5**	**-0.4**	**-0.6**	**-0.8**	**-0.7**	**-0.5**
70%	**-0.5**	**-0.5**	**-0.5**	**-0.7**	**-0.5**	**-0.5**	**-0.5**	**-0.4**	**-0.6**	**-0.8**	**-0.6**	**-0.5**
80%	**-0.5**	**-0.6**	**-0.6**	**-0.7**	**-0.5**	**-0.5**	**-0.4**	**-0.5**	**-0.6**	**-0.8**	**-0.7**	**-0.6**
90%	**-0.5**	**-0.5**	**-0.6**	**-0.4**	**-0.4**	**-0.5**	**-0.5**	**-0.4**	**-0.6**	**-0.8**	**-0.6**	**-0.5**
Long Term												
Full Simulation Period[a]	**-0.4**	**-0.6**	**-0.6**	**-0.7**	**-0.7**	**-0.7**	**-0.6**	**-0.5**	**-0.6**	**-0.8**	**-0.7**	**-0.7**
Water Year Types[b]												
Wet (31%)	**-0.5**	**-0.6**	**-0.7**	**-0.9**	**-0.9**	**-0.9**	**-0.7**	**-0.6**	**-0.6**	**-0.8**	**-0.7**	**-1.0**
Above Normal (25%)	**-0.3**	**-0.5**	**-0.6**	**-1.0**	**-0.9**	**-1.0**	**-0.7**	**-0.6**	**-0.6**	**-0.8**	**-0.7**	**-0.8**
Below Normal (6%)	**-0.4**	**-0.7**	**-0.6**	**-0.7**	**-0.8**	**-0.8**	**-0.6**	**-0.5**	**-0.7**	**-0.9**	**-0.7**	**-0.6**
Dry (13%)	**-0.6**	**-0.6**	**-0.5**	**-0.5**	**-0.6**	**-0.7**	**-0.5**	**-0.5**	**-0.6**	**-0.7**	**-0.7**	**-0.5**
Critical (25%)	**-0.3**	**-0.6**	**-0.5**	**-0.6**	**-0.5**	**-0.5**	**-0.5**	**-0.4**	**-0.6**	**-0.7**	**-0.6**	**-0.5**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-31-1-17. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.9	5.9	8.4	8.3	9.2	8.5	6.8	5.4	5.3	5.6	5.4	5.7
20%	4.8	5.3	5.3	7.8	8.5	7.8	5.1	5.0	5.1	5.6	5.3	5.4
30%	4.7	5.0	5.3	6.5	6.7	6.6	4.9	4.9	5.0	5.5	5.2	5.0
40%	4.7	4.8	5.3	5.5	5.7	5.5	4.7	4.8	5.0	5.5	5.2	4.9
50%	4.7	4.7	5.0	5.5	5.3	5.4	4.6	4.6	4.9	5.5	5.1	4.8
60%	4.6	4.7	4.9	5.2	4.9	5.1	4.6	4.6	4.9	5.4	5.1	4.8
70%	4.6	4.6	4.8	5.1	4.8	4.8	4.5	4.6	4.8	5.4	5.0	4.8
80%	4.5	4.5	4.7	5.0	4.7	4.5	4.5	4.5	4.8	5.2	4.9	4.8
90%	4.5	4.4	4.7	4.6	4.5	4.4	4.3	4.4	4.8	5.1	4.8	4.6
Long Term												
Full Simulation Period[a]	4.7	5.0	5.7	6.0	6.2	6.0	5.1	4.8	5.0	5.4	5.1	5.0
Water Year Types[b]												
Wet (31%)	4.9	6.0	7.9	7.4	8.5	8.1	6.6	5.3	5.4	5.6	5.4	5.7
Above Normal (25%)	4.5	4.6	5.1	8.2	8.2	7.2	5.1	4.8	4.8	5.4	5.1	5.0
Below Normal (6%)	4.7	4.8	4.8	5.6	5.7	5.3	4.6	4.6	4.9	5.0	4.9	4.8
Dry (13%)	4.7	4.8	5.0	5.0	4.9	5.3	4.6	4.8	5.0	5.5	5.2	4.8
Critical (25%)	4.7	4.7	4.8	5.0	4.6	4.5	4.4	4.5	4.8	5.2	4.9	4.7

Alternative 4 H1 (LLT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	5.3	7.5	7.1	8.2	7.4	5.8	4.7	4.7	5.0	4.7	4.6
20%	4.3	4.8	4.7	6.7	7.4	6.6	4.4	4.4	4.6	4.8	4.6	4.5
30%	4.3	4.2	4.7	5.5	5.6	5.6	4.3	4.3	4.5	4.8	4.6	4.4
40%	4.2	4.2	4.6	4.7	4.8	4.7	4.2	4.2	4.4	4.7	4.6	4.3
50%	4.2	4.2	4.5	4.7	4.5	4.5	4.1	4.2	4.3	4.7	4.5	4.3
60%	4.2	4.1	4.4	4.6	4.3	4.4	4.0	4.1	4.3	4.7	4.4	4.3
70%	4.1	4.1	4.3	4.5	4.2	4.2	4.0	4.1	4.2	4.5	4.4	4.3
80%	4.0	3.9	4.2	4.5	4.2	4.0	4.0	4.1	4.2	4.5	4.3	4.2
90%	4.0	3.9	4.1	4.2	4.0	3.9	3.8	3.9	4.2	4.3	4.3	4.1
Long Term												
Full Simulation Period[a]	4.2	4.4	5.1	5.3	5.4	5.2	4.5	4.3	4.4	4.7	4.5	4.4
Water Year Types[b]												
Wet (31%)	4.4	5.4	7.1	6.3	7.4	7.1	5.8	4.7	4.7	4.9	4.7	4.7
Above Normal (25%)	4.0	4.0	4.6	7.1	7.1	6.0	4.4	4.3	4.2	4.6	4.5	4.2
Below Normal (6%)	4.2	4.1	4.2	4.9	4.8	4.5	4.0	4.1	4.3	4.2	4.3	4.2
Dry (13%)	4.1	4.2	4.4	4.4	4.3	4.6	4.1	4.3	4.5	4.8	4.5	4.3
Critical (25%)	4.2	4.1	4.4	4.4	4.1	4.0	3.9	4.0	4.2	4.5	4.3	4.2

Alternative 4 H1 (LLT) minus No Action Alternative (LLT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-0.5**	**-0.6**	**-0.9**	**-1.2**	**-1.0**	**-1.1**	**-1.0**	**-0.7**	**-0.6**	**-0.6**	**-0.7**	**-1.1**
20%	**-0.5**	**-0.5**	**-0.6**	**-1.2**	**-1.2**	**-1.2**	**-0.7**	**-0.5**	**-0.6**	**-0.7**	**-0.6**	**-0.9**
30%	**-0.5**	**-0.8**	**-0.6**	**-0.9**	**-1.1**	**-1.0**	**-0.5**	**-0.6**	**-0.6**	**-0.8**	**-0.6**	**-0.6**
40%	**-0.5**	**-0.7**	**-0.6**	**-0.8**	**-0.9**	**-0.9**	**-0.5**	**-0.5**	**-0.6**	**-0.7**	**-0.6**	**-0.5**
50%	**-0.5**	**-0.6**	**-0.4**	**-0.8**	**-0.7**	**-0.9**	**-0.6**	**-0.4**	**-0.6**	**-0.8**	**-0.6**	**-0.5**
60%	**-0.5**	**-0.5**	**-0.5**	**-0.6**	**-0.5**	**-0.7**	**-0.5**	**-0.4**	**-0.6**	**-0.8**	**-0.6**	**-0.5**
70%	**-0.5**	**-0.5**	**-0.5**	**-0.6**	**-0.5**	**-0.6**	**-0.5**	**-0.5**	**-0.6**	**-0.8**	**-0.6**	**-0.5**
80%	**-0.5**	**-0.6**	**-0.6**	**-0.5**	**-0.5**	**-0.5**	**-0.5**	**-0.5**	**-0.6**	**-0.7**	**-0.7**	**-0.6**
90%	**-0.5**	**-0.5**	**-0.6**	**-0.4**	**-0.4**	**-0.5**	**-0.5**	**-0.4**	**-0.6**	**-0.8**	**-0.6**	**-0.5**
Long Term												
Full Simulation Period[a]	**-0.5**	**-0.6**	**-0.6**	**-0.8**	**-0.8**	**-0.8**	**-0.6**	**-0.5**	**-0.6**	**-0.7**	**-0.6**	**-0.7**
Water Year Types[b]												
Wet (31%)	**-0.6**	**-0.6**	**-0.8**	**-1.1**	**-1.0**	**-1.0**	**-0.8**	**-0.6**	**-0.7**	**-0.7**	**-0.7**	**-1.0**
Above Normal (25%)	**-0.5**	**-0.6**	**-0.6**	**-1.1**	**-1.1**	**-1.1**	**-0.8**	**-0.6**	**-0.6**	**-0.7**	**-0.7**	**-0.8**
Below Normal (6%)	**-0.5**	**-0.7**	**-0.6**	**-0.7**	**-0.9**	**-0.8**	**-0.5**	**-0.5**	**-0.6**	**-0.8**	**-0.7**	**-0.6**
Dry (13%)	**-0.5**	**-0.6**	**-0.5**	**-0.6**	**-0.6**	**-0.7**	**-0.5**	**-0.5**	**-0.6**	**-0.7**	**-0.6**	**-0.4**
Critical (25%)	**-0.5**	**-0.6**	**-0.5**	**-0.5**	**-0.5**	**-0.5**	**-0.5**	**-0.4**	**-0.6**	**-0.7**	**-0.5**	**-0.5**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-31-1-18. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.9	5.9	8.4	8.3	9.2	8.5	6.8	5.4	5.3	5.6	5.4	5.7
20%	4.8	5.3	5.3	7.8	8.5	7.8	5.1	5.0	5.1	5.6	5.3	5.4
30%	4.7	5.0	5.3	6.5	6.7	6.6	4.9	4.9	5.0	5.5	5.2	5.0
40%	4.7	4.8	5.3	5.5	5.7	5.5	4.7	4.8	5.0	5.5	5.2	4.9
50%	4.7	4.7	5.0	5.5	5.3	5.4	4.6	4.6	4.9	5.5	5.1	4.8
60%	4.6	4.7	4.9	5.2	4.9	5.1	4.6	4.6	4.9	5.4	5.1	4.8
70%	4.6	4.6	4.8	5.1	4.8	4.8	4.5	4.6	4.8	5.4	5.0	4.8
80%	4.5	4.5	4.7	5.0	4.7	4.5	4.5	4.5	4.8	5.2	4.9	4.8
90%	4.5	4.4	4.7	4.6	4.5	4.4	4.3	4.4	4.8	5.1	4.8	4.6
Long Term												
Full Simulation Period[a]	4.7	5.0	5.7	6.0	6.2	6.0	5.1	4.8	5.0	5.4	5.1	5.0
Water Year Types[b]												
Wet (31%)	4.9	6.0	7.9	7.4	8.5	8.1	6.6	5.3	5.4	5.6	5.4	5.7
Above Normal (25%)	4.5	4.6	5.1	8.2	8.2	7.2	5.1	4.8	4.8	5.4	5.1	5.0
Below Normal (6%)	4.7	4.8	4.8	5.6	5.7	5.3	4.6	4.6	4.9	5.0	4.9	4.8
Dry (13%)	4.7	4.8	5.0	5.0	4.9	5.3	4.6	4.8	5.0	5.5	5.2	4.8
Critical (25%)	4.7	4.7	4.8	5.0	4.6	4.5	4.4	4.5	4.8	5.2	4.9	4.7

Alternative 4 H2 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.5	5.4	7.6	7.1	8.2	7.5	5.8	4.7	4.6	4.9	4.7	4.6
20%	4.3	4.9	4.8	6.6	7.4	6.6	4.6	4.4	4.5	4.8	4.6	4.4
30%	4.3	4.2	4.7	5.5	5.7	5.7	4.4	4.4	4.4	4.7	4.6	4.4
40%	4.2	4.2	4.6	4.7	4.8	4.7	4.4	4.3	4.4	4.7	4.5	4.3
50%	4.1	4.2	4.5	4.7	4.5	4.5	4.2	4.2	4.3	4.6	4.5	4.3
60%	4.1	4.1	4.4	4.5	4.3	4.4	4.1	4.1	4.2	4.6	4.4	4.3
70%	4.1	4.1	4.3	4.5	4.2	4.2	4.0	4.1	4.2	4.5	4.4	4.3
80%	4.0	3.9	4.1	4.4	4.2	4.0	4.0	4.1	4.2	4.4	4.3	4.2
90%	4.0	3.9	4.1	4.3	4.0	3.9	3.9	3.9	4.1	4.3	4.3	4.1
Long Term												
Full Simulation Period[a]	4.2	4.5	5.1	5.3	5.4	5.2	4.6	4.3	4.4	4.6	4.5	4.4
Water Year Types[b]												
Wet (31%)	4.4	5.4	7.1	6.3	7.4	7.1	6.0	4.7	4.7	4.8	4.7	4.7
Above Normal (25%)	4.0	4.0	4.6	7.2	7.2	6.1	4.6	4.4	4.2	4.5	4.5	4.2
Below Normal (6%)	4.1	4.1	4.1	4.9	4.8	4.6	4.0	4.1	4.3	4.3	4.3	4.2
Dry (13%)	4.1	4.2	4.4	4.4	4.3	4.6	4.1	4.3	4.4	4.7	4.5	4.3
Critical (25%)	4.3	4.1	4.3	4.4	4.1	4.0	3.9	4.0	4.2	4.5	4.3	4.3

Alternative 4 H2 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-0.4**	**-0.5**	**-0.8**	**-1.2**	**-1.0**	**-1.1**	**-1.0**	**-0.7**	**-0.6**	**-0.7**	**-0.7**	**-1.1**
20%	**-0.4**	**-0.5**	**-0.6**	**-1.2**	**-1.2**	**-1.2**	**-0.5**	**-0.5**	**-0.6**	**-0.8**	**-0.7**	**-0.9**
30%	**-0.4**	**-0.7**	**-0.6**	**-0.9**	**-1.0**	**-0.9**	**-0.5**	**-0.5**	**-0.6**	**-0.8**	**-0.7**	**-0.6**
40%	**-0.5**	**-0.7**	**-0.7**	**-0.8**	**-0.9**	**-0.9**	**-0.3**	**-0.5**	**-0.6**	**-0.8**	**-0.7**	**-0.5**
50%	**-0.6**	**-0.6**	**-0.5**	**-0.8**	**-0.7**	**-0.9**	**-0.4**	**-0.4**	**-0.6**	**-0.9**	**-0.6**	**-0.5**
60%	**-0.5**	**-0.5**	**-0.6**	**-0.7**	**-0.5**	**-0.7**	**-0.5**	**-0.4**	**-0.6**	**-0.9**	**-0.7**	**-0.5**
70%	**-0.5**	**-0.5**	**-0.5**	**-0.6**	**-0.5**	**-0.6**	**-0.5**	**-0.5**	**-0.6**	**-0.8**	**-0.6**	**-0.5**
80%	**-0.5**	**-0.6**	**-0.7**	**-0.6**	**-0.5**	**-0.5**	**-0.5**	**-0.5**	**-0.6**	**-0.8**	**-0.7**	**-0.6**
90%	**-0.5**	**-0.5**	**-0.6**	**-0.3**	**-0.4**	**-0.5**	**-0.4**	**-0.4**	**-0.6**	**-0.7**	**-0.6**	**-0.5**
Long Term												
Full Simulation Period[a]	**-0.5**	**-0.6**	**-0.6**	**-0.8**	**-0.8**	**-0.8**	**-0.5**	**-0.5**	**-0.6**	**-0.8**	**-0.6**	**-0.7**
Water Year Types[b]												
Wet (31%)	**-0.6**	**-0.6**	**-0.8**	**-1.1**	**-1.1**	**-1.0**	**-0.6**	**-0.6**	**-0.7**	**-0.8**	**-0.7**	**-1.0**
Above Normal (25%)	**-0.4**	**-0.6**	**-0.5**	**-1.0**	**-1.0**	**-1.1**	**-0.5**	**-0.4**	**-0.6**	**-0.9**	**-0.7**	**-0.8**
Below Normal (6%)	**-0.6**	**-0.7**	**-0.7**	**-0.7**	**-0.8**	**-0.8**	**-0.5**	**-0.5**	**-0.6**	**-0.8**	**-0.7**	**-0.6**
Dry (13%)	**-0.6**	**-0.6**	**-0.6**	**-0.6**	**-0.6**	**-0.7**	**-0.5**	**-0.5**	**-0.6**	**-0.8**	**-0.7**	**-0.5**
Critical (25%)	**-0.4**	**-0.6**	**-0.5**	**-0.5**	**-0.5**	**-0.5**	**-0.5**	**-0.4**	**-0.6**	**-0.7**	**-0.5**	**-0.5**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-31-1-19. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.9	5.9	8.4	8.3	9.2	8.5	6.8	5.4	5.3	5.6	5.4	5.7
20%	4.8	5.3	5.3	7.8	8.5	7.8	5.1	5.0	5.1	5.6	5.3	5.4
30%	4.7	5.0	5.3	6.5	6.7	6.6	4.9	4.9	5.0	5.5	5.2	5.0
40%	4.7	4.8	5.3	5.5	5.7	5.5	4.7	4.8	5.0	5.5	5.2	4.9
50%	4.7	4.7	5.0	5.5	5.3	5.4	4.6	4.6	4.9	5.5	5.1	4.8
60%	4.6	4.7	4.9	5.2	4.9	5.1	4.6	4.6	4.9	5.4	5.1	4.8
70%	4.6	4.6	4.8	5.1	4.8	4.8	4.5	4.6	4.8	5.4	5.0	4.8
80%	4.5	4.5	4.7	5.0	4.7	4.5	4.5	4.5	4.8	5.2	4.9	4.8
90%	4.5	4.4	4.7	4.6	4.5	4.4	4.3	4.4	4.8	5.1	4.8	4.6
Long Term												
Full Simulation Period[a]	4.7	5.0	5.7	6.0	6.2	6.0	5.1	4.8	5.0	5.4	5.1	5.0
Water Year Types[b]												
Wet (31%)	4.9	6.0	7.9	7.4	8.5	8.1	6.6	5.3	5.4	5.6	5.4	5.7
Above Normal (25%)	4.5	4.6	5.1	8.2	8.2	7.2	5.1	4.8	4.8	5.4	5.1	5.0
Below Normal (6%)	4.7	4.8	4.8	5.6	5.7	5.3	4.6	4.6	4.9	5.0	4.9	4.8
Dry (13%)	4.7	4.8	5.0	5.0	4.9	5.3	4.6	4.8	5.0	5.5	5.2	4.8
Critical (25%)	4.7	4.7	4.8	5.0	4.6	4.5	4.4	4.5	4.8	5.2	4.9	4.7

Alternative 4 H3 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	5.3	7.4	7.1	8.2	7.4	5.8	4.7	4.7	5.0	4.7	4.9
20%	4.4	4.8	4.7	6.6	7.4	6.6	4.4	4.4	4.6	4.8	4.6	4.8
30%	4.2	4.3	4.7	5.5	5.6	5.4	4.3	4.3	4.5	4.8	4.6	4.4
40%	4.2	4.2	4.7	4.7	4.8	4.7	4.2	4.3	4.4	4.7	4.5	4.4
50%	4.1	4.2	4.6	4.7	4.5	4.5	4.0	4.2	4.3	4.7	4.5	4.3
60%	4.1	4.2	4.5	4.6	4.3	4.4	4.0	4.1	4.3	4.7	4.4	4.3
70%	4.0	4.1	4.3	4.5	4.2	4.2	4.0	4.1	4.3	4.5	4.3	4.3
80%	4.0	3.9	4.1	4.4	4.2	4.0	4.0	4.1	4.2	4.5	4.3	4.2
90%	4.0	3.9	4.1	4.1	4.0	3.9	3.8	3.9	4.2	4.3	4.3	4.1
Long Term												
Full Simulation Period[a]	4.2	4.5	5.1	5.2	5.4	5.2	4.5	4.3	4.4	4.7	4.5	4.4
Water Year Types[b]												
Wet (31%)	4.3	5.4	7.1	6.3	7.4	7.1	5.8	4.7	4.7	4.9	4.7	4.9
Above Normal (25%)	4.1	4.0	4.6	7.0	7.1	6.0	4.4	4.3	4.2	4.6	4.5	4.3
Below Normal (6%)	4.1	4.2	4.0	4.9	4.8	4.5	4.0	4.1	4.3	4.2	4.3	4.1
Dry (13%)	4.1	4.2	4.4	4.4	4.3	4.5	4.1	4.3	4.5	4.7	4.5	4.3
Critical (25%)	4.1	4.1	4.4	4.4	4.1	4.0	3.9	4.0	4.2	4.5	4.3	4.2

Alternative 4 H3 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-0.5**	**-0.5**	**-1.0**	**-1.2**	**-1.1**	**-1.1**	**-1.0**	**-0.7**	**-0.6**	**-0.6**	**-0.7**	**-0.8**
20%	**-0.4**	**-0.5**	**-0.6**	**-1.2**	**-1.2**	**-1.2**	**-0.7**	**-0.6**	**-0.6**	**-0.7**	**-0.6**	**-0.6**
30%	**-0.5**	**-0.7**	**-0.6**	**-0.9**	**-1.1**	**-1.2**	**-0.6**	**-0.6**	**-0.6**	**-0.8**	**-0.7**	**-0.6**
40%	**-0.5**	**-0.6**	**-0.6**	**-0.8**	**-0.9**	**-0.9**	**-0.5**	**-0.5**	**-0.6**	**-0.8**	**-0.7**	**-0.5**
50%	**-0.6**	**-0.6**	**-0.4**	**-0.8**	**-0.7**	**-0.9**	**-0.6**	**-0.4**	**-0.6**	**-0.8**	**-0.6**	**-0.5**
60%	**-0.5**	**-0.5**	**-0.5**	**-0.5**	**-0.5**	**-0.7**	**-0.5**	**-0.4**	**-0.6**	**-0.7**	**-0.6**	**-0.5**
70%	**-0.6**	**-0.5**	**-0.5**	**-0.6**	**-0.5**	**-0.6**	**-0.5**	**-0.5**	**-0.6**	**-0.9**	**-0.7**	**-0.5**
80%	**-0.5**	**-0.6**	**-0.6**	**-0.6**	**-0.5**	**-0.5**	**-0.5**	**-0.5**	**-0.6**	**-0.7**	**-0.6**	**-0.5**
90%	**-0.5**	**-0.5**	**-0.6**	**-0.4**	**-0.4**	**-0.5**	**-0.5**	**-0.4**	**-0.6**	**-0.8**	**-0.6**	**-0.5**
Long Term												
Full Simulation Period[a]	**-0.5**	**-0.6**	**-0.6**	**-0.8**	**-0.8**	**-0.8**	**-0.6**	**-0.5**	**-0.6**	**-0.7**	**-0.6**	**-0.6**
Water Year Types[b]												
Wet (31%)	**-0.6**	**-0.6**	**-0.9**	**-1.1**	**-1.1**	**-1.1**	**-0.8**	**-0.6**	**-0.7**	**-0.7**	**-0.7**	**-0.8**
Above Normal (25%)	**-0.4**	**-0.6**	**-0.5**	**-1.2**	**-1.1**	**-1.1**	**-0.8**	**-0.5**	**-0.6**	**-0.7**	**-0.7**	**-0.7**
Below Normal (6%)	**-0.6**	**-0.7**	**-0.7**	**-0.7**	**-0.9**	**-0.8**	**-0.5**	**-0.5**	**-0.6**	**-0.8**	**-0.7**	**-0.7**
Dry (13%)	**-0.5**	**-0.6**	**-0.6**	**-0.6**	**-0.6**	**-0.8**	**-0.5**	**-0.5**	**-0.6**	**-0.7**	**-0.7**	**-0.5**
Critical (25%)	**-0.5**	**-0.6**	**-0.5**	**-0.6**	**-0.5**	**-0.5**	**-0.5**	**-0.4**	**-0.6**	**-0.8**	**-0.6**	**-0.5**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-31-1-20. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.9	5.9	8.4	8.3	9.2	8.5	6.8	5.4	5.3	5.6	5.4	5.7
20%	4.8	5.3	5.3	7.8	8.5	7.8	5.1	5.0	5.1	5.6	5.3	5.4
30%	4.7	5.0	5.3	6.5	6.7	6.6	4.9	4.9	5.0	5.5	5.2	5.0
40%	4.7	4.8	5.3	5.5	5.7	5.5	4.7	4.8	5.0	5.5	5.2	4.9
50%	4.7	4.7	5.0	5.5	5.3	5.4	4.6	4.6	4.9	5.5	5.1	4.8
60%	4.6	4.7	4.9	5.2	4.9	5.1	4.6	4.6	4.9	5.4	5.1	4.8
70%	4.6	4.6	4.8	5.1	4.8	4.8	4.5	4.6	4.8	5.4	5.0	4.8
80%	4.5	4.5	4.7	5.0	4.7	4.5	4.5	4.5	4.8	5.2	4.9	4.8
90%	4.5	4.4	4.7	4.6	4.5	4.4	4.3	4.4	4.8	5.1	4.8	4.6
Long Term												
Full Simulation Period[a]	4.7	5.0	5.7	6.0	6.2	6.0	5.1	4.8	5.0	5.4	5.1	5.0
Water Year Types[b]												
Wet (31%)	4.9	6.0	7.9	7.4	8.5	8.1	6.6	5.3	5.4	5.6	5.4	5.7
Above Normal (25%)	4.5	4.6	5.1	8.2	8.2	7.2	5.1	4.8	4.8	5.4	5.1	5.0
Below Normal (6%)	4.7	4.8	4.8	5.6	5.7	5.3	4.6	4.6	4.9	5.0	4.9	4.8
Dry (13%)	4.7	4.8	5.0	5.0	4.9	5.3	4.6	4.8	5.0	5.5	5.2	4.8
Critical (25%)	4.7	4.7	4.8	5.0	4.6	4.5	4.4	4.5	4.8	5.2	4.9	4.7

Alternative 4 H4 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	5.2	7.4	7.2	8.2	7.5	5.8	4.7	4.6	4.9	4.7	4.9
20%	4.4	4.8	4.7	6.7	7.4	6.6	4.6	4.4	4.5	4.8	4.6	4.8
30%	4.3	4.3	4.7	5.5	5.6	5.6	4.4	4.4	4.4	4.7	4.6	4.4
40%	4.2	4.2	4.6	4.7	4.8	4.7	4.4	4.3	4.4	4.6	4.5	4.4
50%	4.2	4.2	4.5	4.7	4.5	4.5	4.2	4.2	4.3	4.6	4.5	4.3
60%	4.1	4.2	4.4	4.5	4.3	4.4	4.0	4.1	4.2	4.6	4.4	4.3
70%	4.0	4.1	4.3	4.5	4.2	4.2	4.0	4.1	4.2	4.5	4.4	4.3
80%	4.0	4.0	4.1	4.2	4.2	4.0	4.0	4.1	4.2	4.4	4.3	4.2
90%	4.0	3.9	4.1	4.1	4.0	3.9	3.9	3.9	4.2	4.3	4.2	4.1
Long Term												
Full Simulation Period[a]	4.2	4.4	5.1	5.2	5.4	5.2	4.6	4.3	4.4	4.6	4.5	4.4
Water Year Types[b]												
Wet (31%)	4.4	5.3	7.1	6.3	7.4	7.1	6.0	4.7	4.7	4.8	4.7	5.0
Above Normal (25%)	4.1	4.0	4.6	7.1	7.1	6.0	4.6	4.4	4.2	4.5	4.5	4.3
Below Normal (6%)	4.0	4.2	4.1	4.9	4.8	4.5	4.0	4.1	4.3	4.3	4.2	4.1
Dry (13%)	4.1	4.2	4.4	4.4	4.3	4.6	4.1	4.3	4.4	4.6	4.5	4.3
Critical (25%)	4.2	4.1	4.3	4.3	4.1	4.0	3.9	4.0	4.2	4.5	4.4	4.3

Alternative 4 H4 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-0.5**	**-0.7**	**-1.0**	**-1.2**	**-1.1**	**-1.1**	**-1.0**	**-0.7**	**-0.6**	**-0.7**	**-0.7**	**-0.8**
20%	**-0.4**	**-0.5**	**-0.6**	**-1.2**	**-1.2**	**-1.2**	**-0.5**	**-0.5**	**-0.6**	**-0.8**	**-0.7**	**-0.6**
30%	**-0.5**	**-0.7**	**-0.6**	**-0.9**	**-1.1**	**-1.0**	**-0.5**	**-0.5**	**-0.6**	**-0.8**	**-0.7**	**-0.6**
40%	**-0.5**	**-0.6**	**-0.6**	**-0.8**	**-0.9**	**-0.9**	**-0.3**	**-0.5**	**-0.6**	**-0.9**	**-0.7**	**-0.5**
50%	**-0.5**	**-0.6**	**-0.5**	**-0.8**	**-0.7**	**-0.9**	**-0.4**	**-0.4**	**-0.6**	**-0.9**	**-0.6**	**-0.5**
60%	**-0.5**	**-0.5**	**-0.5**	**-0.7**	**-0.5**	**-0.7**	**-0.5**	**-0.4**	**-0.6**	**-0.9**	**-0.6**	**-0.5**
70%	**-0.6**	**-0.5**	**-0.5**	**-0.6**	**-0.5**	**-0.6**	**-0.5**	**-0.5**	**-0.6**	**-0.8**	**-0.6**	**-0.5**
80%	**-0.5**	**-0.6**	**-0.6**	**-0.8**	**-0.5**	**-0.5**	**-0.5**	**-0.5**	**-0.6**	**-0.8**	**-0.6**	**-0.5**
90%	**-0.6**	**-0.5**	**-0.6**	**-0.5**	**-0.4**	**-0.5**	**-0.4**	**-0.4**	**-0.6**	**-0.7**	**-0.6**	**-0.5**
Long Term												
Full Simulation Period[a]	**-0.5**	**-0.6**	**-0.6**	**-0.8**	**-0.8**	**-0.8**	**-0.5**	**-0.5**	**-0.6**	**-0.8**	**-0.6**	**-0.6**
Water Year Types[b]												
Wet (31%)	**-0.5**	**-0.7**	**-0.9**	**-1.1**	**-1.1**	**-1.0**	**-0.6**	**-0.6**	**-0.7**	**-0.8**	**-0.7**	**-0.8**
Above Normal (25%)	**-0.4**	**-0.6**	**-0.5**	**-1.0**	**-1.1**	**-1.1**	**-0.5**	**-0.5**	**-0.6**	**-0.9**	**-0.7**	**-0.7**
Below Normal (6%)	**-0.7**	**-0.7**	**-0.6**	**-0.7**	**-0.9**	**-0.8**	**-0.5**	**-0.5**	**-0.6**	**-0.8**	**-0.7**	**-0.6**
Dry (13%)	**-0.5**	**-0.6**	**-0.6**	**-0.6**	**-0.6**	**-0.7**	**-0.5**	**-0.5**	**-0.6**	**-0.8**	**-0.7**	**-0.5**
Critical (25%)	**-0.5**	**-0.5**	**-0.5**	**-0.7**	**-0.5**	**-0.5**	**-0.5**	**-0.4**	**-0.6**	**-0.7**	**-0.5**	**-0.4**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-31-1-21. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.9	5.9	8.4	8.3	9.2	8.5	6.8	5.4	5.3	5.6	5.4	5.7
20%	4.8	5.3	5.3	7.8	8.5	7.8	5.1	5.0	5.1	5.6	5.3	5.4
30%	4.7	5.0	5.3	6.5	6.7	6.6	4.9	4.9	5.0	5.5	5.2	5.0
40%	4.7	4.8	5.3	5.5	5.7	5.5	4.7	4.8	5.0	5.5	5.2	4.9
50%	4.7	4.7	5.0	5.5	5.3	5.4	4.6	4.6	4.9	5.5	5.1	4.8
60%	4.6	4.7	4.9	5.2	4.9	5.1	4.6	4.6	4.9	5.4	5.1	4.8
70%	4.6	4.6	4.8	5.1	4.8	4.8	4.5	4.6	4.8	5.4	5.0	4.8
80%	4.5	4.5	4.7	5.0	4.7	4.5	4.5	4.5	4.8	5.2	4.9	4.8
90%	4.5	4.4	4.7	4.6	4.5	4.4	4.3	4.4	4.8	5.1	4.8	4.6
Long Term												
Full Simulation Period[a]	4.7	5.0	5.7	6.0	6.2	6.0	5.1	4.8	5.0	5.4	5.1	5.0
Water Year Types[b]												
Wet (31%)	4.9	6.0	7.9	7.4	8.5	8.1	6.6	5.3	5.4	5.6	5.4	5.7
Above Normal (25%)	4.5	4.6	5.1	8.2	8.2	7.2	5.1	4.8	4.8	5.4	5.1	5.0
Below Normal (6%)	4.7	4.8	4.8	5.6	5.7	5.3	4.6	4.6	4.9	5.0	4.9	4.8
Dry (13%)	4.7	4.8	5.0	5.0	4.9	5.3	4.6	4.8	5.0	5.5	5.2	4.8
Critical (25%)	4.7	4.7	4.8	5.0	4.6	4.5	4.4	4.5	4.8	5.2	4.9	4.7

Alternative 5 (LLT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	5.4	7.8	7.5	8.6	7.9	6.1	4.8	4.7	4.9	4.7	4.9
20%	4.3	4.8	4.7	7.0	7.8	7.0	4.5	4.4	4.6	4.8	4.6	4.8
30%	4.3	4.3	4.7	5.7	5.9	5.8	4.4	4.3	4.5	4.8	4.5	4.4
40%	4.2	4.2	4.7	4.8	4.9	4.8	4.2	4.2	4.4	4.7	4.5	4.3
50%	4.1	4.2	4.4	4.8	4.6	4.7	4.1	4.2	4.3	4.7	4.5	4.3
60%	4.0	4.2	4.4	4.5	4.3	4.4	4.0	4.1	4.3	4.7	4.4	4.3
70%	4.0	4.1	4.3	4.5	4.3	4.2	4.0	4.1	4.3	4.6	4.4	4.3
80%	4.0	3.9	4.2	4.4	4.2	4.0	4.0	4.1	4.2	4.5	4.3	4.2
90%	4.0	3.9	4.1	4.2	4.0	3.9	3.8	3.9	4.2	4.4	4.2	4.1
Long Term												
Full Simulation Period[a]	4.2	4.5	5.1	5.4	5.6	5.4	4.6	4.3	4.4	4.7	4.5	4.4
Water Year Types[b]												
Wet (31%)	4.3	5.5	7.3	6.6	7.8	7.5	6.0	4.8	4.8	4.9	4.7	5.0
Above Normal (25%)	3.9	4.0	4.6	7.4	7.5	6.4	4.5	4.3	4.3	4.6	4.4	4.3
Below Normal (6%)	4.0	4.2	4.2	4.9	4.9	4.6	4.0	4.1	4.3	4.4	4.2	4.1
Dry (13%)	4.1	4.2	4.4	4.4	4.3	4.7	4.1	4.3	4.4	4.7	4.5	4.2
Critical (25%)	4.2	4.1	4.3	4.4	4.1	4.0	4.0	4.0	4.2	4.5	4.3	4.2

Alternative 5 (LLT) minus No Action Alternative (LLT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.5	-0.5	-0.6	-0.8	-0.6	-0.6	-0.7	-0.6	-0.6	-0.7	-0.7	-0.8
20%	-0.4	-0.6	-0.6	-0.8	-0.7	-0.8	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5
30%	-0.4	-0.7	-0.6	-0.7	-0.8	-0.8	-0.5	-0.6	-0.5	-0.8	-0.7	-0.6
40%	-0.5	-0.6	-0.6	-0.8	-0.7	-0.7	-0.5	-0.5	-0.6	-0.8	-0.7	-0.5
50%	-0.6	-0.6	-0.6	-0.7	-0.7	-0.8	-0.5	-0.4	-0.6	-0.8	-0.6	-0.5
60%	-0.6	-0.5	-0.5	-0.6	-0.5	-0.7	-0.5	-0.5	-0.6	-0.7	-0.7	-0.5
70%	-0.6	-0.5	-0.5	-0.6	-0.5	-0.6	-0.5	-0.5	-0.6	-0.8	-0.6	-0.5
80%	-0.5	-0.6	-0.6	-0.6	-0.5	-0.5	-0.5	-0.5	-0.6	-0.7	-0.7	-0.5
90%	-0.5	-0.5	-0.6	-0.4	-0.4	-0.5	-0.5	-0.4	-0.6	-0.7	-0.6	-0.5
Long Term												
Full Simulation Period[a]	-0.5	-0.6	-0.6	-0.7	-0.6	-0.6	-0.5	-0.5	-0.6	-0.7	-0.7	-0.6
Water Year Types[b]												
Wet (31%)	-0.6	-0.5	-0.6	-0.8	-0.7	-0.7	-0.6	-0.5	-0.6	-0.7	-0.7	-0.7
Above Normal (25%)	-0.5	-0.5	-0.6	-0.7	-0.7	-0.8	-0.7	-0.6	-0.6	-0.8	-0.7	-0.7
Below Normal (6%)	-0.7	-0.7	-0.6	-0.7	-0.7	-0.7	-0.5	-0.5	-0.6	-0.7	-0.7	-0.7
Dry (13%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.5	-0.5	-0.6	-0.8	-0.7	-0.5
Critical (25%)	-0.5	-0.5	-0.5	-0.6	-0.5	-0.5	-0.5	-0.5	-0.6	-0.7	-0.6	-0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-31-1-22. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.9	5.9	8.4	8.3	9.2	8.5	6.8	5.4	5.3	5.6	5.4	5.7
20%	4.8	5.3	5.3	7.8	8.5	7.8	5.1	5.0	5.1	5.6	5.3	5.4
30%	4.7	5.0	5.3	6.5	6.7	6.6	4.9	4.9	5.0	5.5	5.2	5.0
40%	4.7	4.8	5.3	5.5	5.7	5.5	4.7	4.8	5.0	5.5	5.2	4.9
50%	4.7	4.7	5.0	5.5	5.3	5.4	4.6	4.6	4.9	5.5	5.1	4.8
60%	4.6	4.7	4.9	5.2	4.9	5.1	4.6	4.6	4.9	5.4	5.1	4.8
70%	4.6	4.6	4.8	5.1	4.8	4.8	4.5	4.6	4.8	5.4	5.0	4.8
80%	4.5	4.5	4.7	5.0	4.7	4.5	4.5	4.5	4.8	5.2	4.9	4.8
90%	4.5	4.4	4.7	4.6	4.5	4.4	4.3	4.4	4.8	5.1	4.8	4.6
Long Term												
Full Simulation Period[a]	4.7	5.0	5.7	6.0	6.2	6.0	5.1	4.8	5.0	5.4	5.1	5.0
Water Year Types[b]												
Wet (31%)	4.9	6.0	7.9	7.4	8.5	8.1	6.6	5.3	5.4	5.6	5.4	5.7
Above Normal (25%)	4.5	4.6	5.1	8.2	8.2	7.2	5.1	4.8	4.8	5.4	5.1	5.0
Below Normal (6%)	4.7	4.8	4.8	5.6	5.7	5.3	4.6	4.6	4.9	5.0	4.9	4.8
Dry (13%)	4.7	4.8	5.0	5.0	4.9	5.3	4.6	4.8	5.0	5.5	5.2	4.8
Critical (25%)	4.7	4.7	4.8	5.0	4.6	4.5	4.4	4.5	4.8	5.2	4.9	4.7

Alternative 6A,6B,6C (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	5.5	7.3	6.8	7.7	7.2	5.7	4.6	4.6	4.8	4.7	4.9
20%	4.3	4.9	4.7	6.4	7.2	6.5	4.4	4.3	4.5	4.7	4.6	4.7
30%	4.2	4.3	4.7	5.6	5.5	5.4	4.3	4.3	4.4	4.7	4.6	4.4
40%	4.2	4.3	4.6	4.8	4.7	4.6	4.2	4.2	4.3	4.7	4.6	4.4
50%	4.1	4.2	4.5	4.7	4.6	4.5	4.1	4.2	4.2	4.6	4.5	4.4
60%	4.1	4.2	4.3	4.5	4.5	4.4	4.0	4.1	4.2	4.6	4.4	4.4
70%	4.1	4.2	4.3	4.5	4.2	4.2	4.0	4.0	4.2	4.5	4.4	4.3
80%	4.1	3.9	4.1	4.2	4.2	4.0	4.0	4.0	4.1	4.5	4.3	4.2
90%	4.0	3.9	4.1	4.1	4.0	3.9	3.8	3.9	4.1	4.4	4.3	4.1
Long Term												
Full Simulation Period[a]	4.2	4.5	5.0	5.2	5.3	5.1	4.5	4.3	4.3	4.6	4.5	4.4
Water Year Types[b]												
Wet (31%)	4.4	5.4	7.0	6.2	7.2	7.0	5.8	4.7	4.6	4.8	4.7	4.9
Above Normal (25%)	3.9	4.0	4.6	6.8	6.7	5.9	4.3	4.3	4.2	4.5	4.5	4.3
Below Normal (6%)	4.1	4.2	4.1	4.9	4.7	4.5	4.1	4.1	4.2	4.3	4.3	4.2
Dry (13%)	4.2	4.2	4.4	4.4	4.3	4.5	4.1	4.2	4.4	4.6	4.5	4.3
Critical (25%)	4.1	4.2	4.3	4.3	4.2	4.0	3.9	4.0	4.2	4.5	4.4	4.3

Alternative 6A,6B,6C (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-0.5**	**-0.4**	**-1.0**	**-1.6**	**-1.5**	**-1.3**	**-1.1**	**-0.7**	**-0.7**	**-0.8**	**-0.7**	**-0.9**
20%	**-0.5**	**-0.5**	**-0.6**	**-1.4**	**-1.3**	**-1.3**	**-0.7**	**-0.6**	**-0.7**	**-0.9**	**-0.6**	**-0.7**
30%	**-0.5**	**-0.7**	**-0.6**	**-0.8**	**-1.2**	**-1.2**	**-0.6**	**-0.6**	**-0.6**	**-0.9**	**-0.7**	**-0.6**
40%	**-0.5**	**-0.6**	**-0.7**	**-0.7**	**-1.0**	**-0.9**	**-0.5**	**-0.5**	**-0.7**	**-0.8**	**-0.6**	**-0.5**
50%	**-0.6**	**-0.5**	**-0.5**	**-0.7**	**-0.7**	**-1.0**	**-0.6**	**-0.4**	**-0.7**	**-0.9**	**-0.6**	**-0.5**
60%	**-0.5**	**-0.5**	**-0.6**	**-0.6**	**-0.3**	**-0.7**	**-0.5**	**-0.5**	**-0.7**	**-0.8**	**-0.6**	**-0.4**
70%	**-0.5**	**-0.5**	**-0.5**	**-0.6**	**-0.5**	**-0.6**	**-0.5**	**-0.5**	**-0.6**	**-0.8**	**-0.6**	**-0.5**
80%	**-0.5**	**-0.6**	**-0.6**	**-0.8**	**-0.5**	**-0.5**	**-0.5**	**-0.5**	**-0.7**	**-0.8**	**-0.6**	**-0.5**
90%	**-0.5**	**-0.5**	**-0.6**	**-0.5**	**-0.4**	**-0.5**	**-0.5**	**-0.5**	**-0.6**	**-0.7**	**-0.5**	**-0.5**
Long Term												
Full Simulation Period[a]	**-0.5**	**-0.6**	**-0.7**	**-0.9**	**-0.8**	**-0.9**	**-0.6**	**-0.6**	**-0.7**	**-0.8**	**-0.6**	**-0.6**
Water Year Types[b]												
Wet (31%)	**-0.5**	**-0.7**	**-0.9**	**-1.2**	**-1.3**	**-1.1**	**-0.8**	**-0.6**	**-0.7**	**-0.8**	**-0.6**	**-0.8**
Above Normal (25%)	**-0.6**	**-0.5**	**-0.6**	**-1.4**	**-1.5**	**-1.2**	**-0.8**	**-0.6**	**-0.7**	**-0.9**	**-0.7**	**-0.7**
Below Normal (6%)	**-0.6**	**-0.7**	**-0.7**	**-0.7**	**-0.9**	**-0.9**	**-0.5**	**-0.5**	**-0.6**	**-0.7**	**-0.6**	**-0.5**
Dry (13%)	**-0.5**	**-0.6**	**-0.6**	**-0.6**	**-0.6**	**-0.8**	**-0.5**	**-0.6**	**-0.7**	**-0.9**	**-0.7**	**-0.4**
Critical (25%)	**-0.5**	**-0.5**	**-0.5**	**-0.7**	**-0.4**	**-0.6**	**-0.5**	**-0.5**	**-0.6**	**-0.7**	**-0.5**	**-0.5**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-31-1-23. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.9	5.9	8.4	8.3	9.2	8.5	6.8	5.4	5.3	5.6	5.4	5.7
20%	4.8	5.3	5.3	7.8	8.5	7.8	5.1	5.0	5.1	5.6	5.3	5.4
30%	4.7	5.0	5.3	6.5	6.7	6.6	4.9	4.9	5.0	5.5	5.2	5.0
40%	4.7	4.8	5.3	5.5	5.7	5.5	4.7	4.8	5.0	5.5	5.2	4.9
50%	4.7	4.7	5.0	5.5	5.3	5.4	4.6	4.6	4.9	5.5	5.1	4.8
60%	4.6	4.7	4.9	5.2	4.9	5.1	4.6	4.6	4.9	5.4	5.1	4.8
70%	4.6	4.6	4.8	5.1	4.8	4.8	4.5	4.6	4.8	5.4	5.0	4.8
80%	4.5	4.5	4.7	5.0	4.7	4.5	4.5	4.5	4.8	5.2	4.9	4.8
90%	4.5	4.4	4.7	4.6	4.5	4.4	4.3	4.4	4.8	5.1	4.8	4.6
Long Term												
Full Simulation Period[a]	4.7	5.0	5.7	6.0	6.2	6.0	5.1	4.8	5.0	5.4	5.1	5.0
Water Year Types[b]												
Wet (31%)	4.9	6.0	7.9	7.4	8.5	8.1	6.6	5.3	5.4	5.6	5.4	5.7
Above Normal (25%)	4.5	4.6	5.1	8.2	8.2	7.2	5.1	4.8	4.8	5.4	5.1	5.0
Below Normal (6%)	4.7	4.8	4.8	5.6	5.7	5.3	4.6	4.6	4.9	5.0	4.9	4.8
Dry (13%)	4.7	4.8	5.0	5.0	4.9	5.3	4.6	4.8	5.0	5.5	5.2	4.8
Critical (25%)	4.7	4.7	4.8	5.0	4.6	4.5	4.4	4.5	4.8	5.2	4.9	4.7

Alternative 7 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	5.4	7.6	7.1	8.1	7.4	5.8	4.6	4.6	4.9	4.7	4.9
20%	4.3	4.8	4.8	6.7	7.3	6.6	4.4	4.3	4.5	4.8	4.6	4.8
30%	4.2	4.3	4.7	5.5	5.6	5.4	4.3	4.3	4.5	4.7	4.6	4.4
40%	4.2	4.3	4.6	4.7	4.7	4.6	4.2	4.2	4.4	4.7	4.5	4.3
50%	4.2	4.2	4.5	4.7	4.6	4.5	4.1	4.2	4.4	4.7	4.5	4.3
60%	4.1	4.2	4.3	4.5	4.6	4.4	4.0	4.1	4.3	4.6	4.4	4.3
70%	4.1	4.2	4.3	4.5	4.3	4.2	4.0	4.1	4.2	4.5	4.4	4.3
80%	4.1	4.0	4.1	4.2	4.2	4.0	4.0	4.0	4.2	4.5	4.4	4.2
90%	4.0	3.9	4.1	4.1	4.0	3.9	3.9	3.9	4.2	4.4	4.3	4.1
Long Term												
Full Simulation Period[a]	4.2	4.5	5.1	5.2	5.4	5.2	4.5	4.3	4.4	4.7	4.5	4.4
Water Year Types[b]												
Wet (31%)	4.4	5.4	7.2	6.2	7.4	7.1	5.8	4.7	4.7	4.9	4.7	5.0
Above Normal (25%)	3.9	4.1	4.6	7.1	7.1	5.9	4.4	4.3	4.3	4.5	4.5	4.4
Below Normal (6%)	4.1	4.2	4.1	4.9	4.8	4.5	4.1	4.1	4.2	4.4	4.3	4.2
Dry (13%)	4.2	4.2	4.4	4.4	4.3	4.6	4.1	4.2	4.4	4.7	4.5	4.2
Critical (25%)	4.1	4.2	4.3	4.3	4.2	4.0	3.9	4.1	4.3	4.5	4.4	4.2

Alternative 7 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-0.5**	**-0.5**	**-0.8**	**-1.3**	**-1.1**	**-1.1**	**-1.0**	**-0.7**	**-0.6**	**-0.7**	**-0.7**	**-0.8**
20%	**-0.5**	**-0.5**	**-0.6**	**-1.1**	**-1.2**	**-1.2**	**-0.7**	**-0.6**	**-0.6**	**-0.8**	**-0.6**	**-0.5**
30%	**-0.5**	**-0.7**	**-0.6**	**-1.0**	**-1.1**	**-1.2**	**-0.6**	**-0.6**	**-0.6**	**-0.8**	**-0.7**	**-0.6**
40%	**-0.5**	**-0.6**	**-0.6**	**-0.8**	**-0.9**	**-0.9**	**-0.5**	**-0.5**	**-0.6**	**-0.8**	**-0.6**	**-0.6**
50%	**-0.5**	**-0.5**	**-0.5**	**-0.8**	**-0.7**	**-0.9**	**-0.6**	**-0.4**	**-0.5**	**-0.8**	**-0.6**	**-0.6**
60%	**-0.5**	**-0.5**	**-0.6**	**-0.6**	**-0.3**	**-0.7**	**-0.5**	**-0.5**	**-0.5**	**-0.8**	**-0.6**	**-0.5**
70%	**-0.5**	**-0.5**	**-0.5**	**-0.6**	**-0.5**	**-0.6**	**-0.5**	**-0.5**	**-0.6**	**-0.8**	**-0.6**	**-0.6**
80%	**-0.5**	**-0.5**	**-0.6**	**-0.8**	**-0.5**	**-0.5**	**-0.5**	**-0.5**	**-0.6**	**-0.8**	**-0.6**	**-0.5**
90%	**-0.5**	**-0.5**	**-0.6**	**-0.5**	**-0.4**	**-0.5**	**-0.4**	**-0.4**	**-0.6**	**-0.7**	**-0.5**	**-0.5**
Long Term												
Full Simulation Period[a]	**-0.5**	**-0.5**	**-0.6**	**-0.8**	**-0.8**	**-0.8**	**-0.6**	**-0.5**	**-0.6**	**-0.8**	**-0.6**	**-0.6**
Water Year Types[b]												
Wet (31%)	**-0.5**	**-0.6**	**-0.8**	**-1.1**	**-1.1**	**-1.1**	**-0.8**	**-0.6**	**-0.6**	**-0.7**	**-0.7**	**-0.7**
Above Normal (25%)	**-0.5**	**-0.5**	**-0.6**	**-1.1**	**-1.2**	**-1.2**	**-0.8**	**-0.5**	**-0.6**	**-0.8**	**-0.7**	**-0.7**
Below Normal (6%)	**-0.6**	**-0.7**	**-0.7**	**-0.7**	**-0.9**	**-0.8**	**-0.5**	**-0.5**	**-0.7**	**-0.7**	**-0.6**	**-0.6**
Dry (13%)	**-0.5**	**-0.6**	**-0.6**	**-0.6**	**-0.6**	**-0.8**	**-0.5**	**-0.6**	**-0.6**	**-0.7**	**-0.6**	**-0.5**
Critical (25%)	**-0.5**	**-0.5**	**-0.5**	**-0.7**	**-0.4**	**-0.6**	**-0.5**	**-0.4**	**-0.5**	**-0.7**	**-0.5**	**-0.5**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-31-1-24. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.9	5.9	8.4	8.3	9.2	8.5	6.8	5.4	5.3	5.6	5.4	5.7
20%	4.8	5.3	5.3	7.8	8.5	7.8	5.1	5.0	5.1	5.6	5.3	5.4
30%	4.7	5.0	5.3	6.5	6.7	6.6	4.9	4.9	5.0	5.5	5.2	5.0
40%	4.7	4.8	5.3	5.5	5.7	5.5	4.7	4.8	5.0	5.5	5.2	4.9
50%	4.7	4.7	5.0	5.5	5.3	5.4	4.6	4.6	4.9	5.5	5.1	4.8
60%	4.6	4.7	4.9	5.2	4.9	5.1	4.6	4.6	4.9	5.4	5.1	4.8
70%	4.6	4.6	4.8	5.1	4.8	4.8	4.5	4.6	4.8	5.4	5.0	4.8
80%	4.5	4.5	4.7	5.0	4.7	4.5	4.5	4.5	4.8	5.2	4.9	4.8
90%	4.5	4.4	4.7	4.6	4.5	4.4	4.3	4.4	4.8	5.1	4.8	4.6
Long Term												
Full Simulation Period[a]	4.7	5.0	5.7	6.0	6.2	6.0	5.1	4.8	5.0	5.4	5.1	5.0
Water Year Types[b]												
Wet (31%)	4.9	6.0	7.9	7.4	8.5	8.1	6.6	5.3	5.4	5.6	5.4	5.7
Above Normal (25%)	4.5	4.6	5.1	8.2	8.2	7.2	5.1	4.8	4.8	5.4	5.1	5.0
Below Normal (6%)	4.7	4.8	4.8	5.6	5.7	5.3	4.6	4.6	4.9	5.0	4.9	4.8
Dry (13%)	4.7	4.8	5.0	5.0	4.9	5.3	4.6	4.8	5.0	5.5	5.2	4.8
Critical (25%)	4.7	4.7	4.8	5.0	4.6	4.5	4.4	4.5	4.8	5.2	4.9	4.7

Alternative 8 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	5.5	7.6	7.1	8.1	7.4	6.0	4.7	4.6	4.8	4.6	4.9
20%	4.2	4.9	4.7	6.7	7.3	6.5	4.5	4.4	4.5	4.6	4.5	4.8
30%	4.2	4.3	4.7	5.6	5.9	5.6	4.4	4.4	4.4	4.6	4.5	4.3
40%	4.1	4.3	4.6	5.0	4.7	4.8	4.2	4.3	4.4	4.6	4.5	4.3
50%	4.0	4.2	4.5	4.8	4.7	4.6	4.2	4.3	4.4	4.6	4.5	4.3
60%	4.0	4.2	4.3	4.6	4.6	4.5	4.1	4.2	4.3	4.5	4.4	4.3
70%	4.0	4.1	4.3	4.5	4.3	4.3	4.1	4.2	4.2	4.4	4.3	4.2
80%	3.9	3.9	4.1	4.2	4.2	4.1	4.0	4.1	4.2	4.4	4.3	4.1
90%	3.9	3.9	4.1	4.1	4.1	4.0	4.0	4.1	4.2	4.3	4.3	4.1
Long Term												
Full Simulation Period[a]	4.1	4.5	5.1	5.3	5.5	5.3	4.6	4.4	4.4	4.6	4.5	4.4
Water Year Types[b]												
Wet (31%)	4.3	5.5	7.2	6.3	7.4	7.1	5.9	4.9	4.7	4.8	4.6	4.9
Above Normal (25%)	3.9	4.0	4.6	7.2	7.1	6.0	4.5	4.4	4.3	4.4	4.4	4.3
Below Normal (6%)	4.0	4.1	4.1	5.0	5.1	4.7	4.1	4.2	4.2	4.2	4.2	4.1
Dry (13%)	4.0	4.2	4.4	4.5	4.4	4.7	4.2	4.2	4.4	4.6	4.5	4.2
Critical (25%)	4.0	4.1	4.3	4.4	4.2	4.1	4.0	4.1	4.2	4.5	4.4	4.2

Alternative 8 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-0.6**	**-0.3**	**-0.8**	**-1.2**	**-1.2**	**-1.1**	**-0.9**	**-0.6**	**-0.6**	**-0.8**	**-0.7**	**-0.9**
20%	**-0.6**	**-0.5**	**-0.6**	**-1.1**	**-1.2**	**-1.2**	**-0.6**	**-0.6**	**-0.7**	**-0.9**	**-0.7**	**-0.6**
30%	**-0.6**	**-0.7**	**-0.6**	**-0.9**	**-0.8**	**-1.0**	**-0.5**	**-0.5**	**-0.6**	**-0.9**	**-0.7**	**-0.7**
40%	**-0.6**	**-0.6**	**-0.7**	**-0.6**	**-1.0**	**-0.8**	**-0.5**	**-0.4**	**-0.6**	**-0.9**	**-0.7**	**-0.6**
50%	**-0.7**	**-0.6**	**-0.5**	**-0.7**	**-0.6**	**-0.8**	**-0.5**	**-0.3**	**-0.5**	**-0.9**	**-0.6**	**-0.6**
60%	**-0.6**	**-0.5**	**-0.6**	**-0.6**	**-0.3**	**-0.6**	**-0.4**	**-0.3**	**-0.6**	**-0.9**	**-0.7**	**-0.5**
70%	**-0.6**	**-0.5**	**-0.5**	**-0.6**	**-0.5**	**-0.5**	**-0.4**	**-0.4**	**-0.6**	**-0.9**	**-0.7**	**-0.6**
80%	**-0.6**	**-0.6**	**-0.6**	**-0.8**	**-0.5**	**-0.4**	**-0.5**	**-0.4**	**-0.6**	**-0.8**	**-0.7**	**-0.6**
90%	**-0.6**	**-0.5**	**-0.6**	**-0.5**	**-0.4**	**-0.4**	**-0.3**	**-0.3**	**-0.6**	**-0.8**	**-0.6**	**-0.6**
Long Term												
Full Simulation Period[a]	**-0.6**	**-0.5**	**-0.6**	**-0.8**	**-0.7**	**-0.7**	**-0.5**	**-0.4**	**-0.6**	**-0.8**	**-0.7**	**-0.6**
Water Year Types[b]												
Wet (31%)	**-0.6**	**-0.5**	**-0.7**	**-1.0**	**-1.1**	**-1.1**	**-0.8**	**-0.4**	**-0.6**	**-0.8**	**-0.7**	**-0.8**
Above Normal (25%)	**-0.5**	**-0.5**	**-0.6**	**-1.0**	**-1.1**	**-1.1**	**-0.7**	**-0.5**	**-0.6**	**-1.0**	**-0.8**	**-0.7**
Below Normal (6%)	**-0.7**	**-0.7**	**-0.7**	**-0.6**	**-0.6**	**-0.7**	**-0.5**	**-0.3**	**-0.7**	**-0.8**	**-0.7**	**-0.7**
Dry (13%)	**-0.6**	**-0.6**	**-0.6**	**-0.5**	**-0.5**	**-0.6**	**-0.4**	**-0.5**	**-0.6**	**-0.9**	**-0.7**	**-0.5**
Critical (25%)	**-0.6**	**-0.5**	**-0.5**	**-0.6**	**-0.4**	**-0.5**	**-0.4**	**-0.3**	**-0.5**	**-0.8**	**-0.5**	**-0.5**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-31-1-25. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.9	5.9	8.4	8.3	9.2	8.5	6.8	5.4	5.3	5.6	5.4	5.7
20%	4.8	5.3	5.3	7.8	8.5	7.8	5.1	5.0	5.1	5.6	5.3	5.4
30%	4.7	5.0	5.3	6.5	6.7	6.6	4.9	4.9	5.0	5.5	5.2	5.0
40%	4.7	4.8	5.3	5.5	5.7	5.5	4.7	4.8	5.0	5.5	5.2	4.9
50%	4.7	4.7	5.0	5.5	5.3	5.4	4.6	4.6	4.9	5.5	5.1	4.8
60%	4.6	4.7	4.9	5.2	4.9	5.1	4.6	4.6	4.9	5.4	5.1	4.8
70%	4.6	4.6	4.8	5.1	4.8	4.8	4.5	4.6	4.8	5.4	5.0	4.8
80%	4.5	4.5	4.7	5.0	4.7	4.5	4.5	4.5	4.8	5.2	4.9	4.8
90%	4.5	4.4	4.7	4.6	4.5	4.4	4.3	4.4	4.8	5.1	4.8	4.6
Long Term												
Full Simulation Period[a]	4.7	5.0	5.7	6.0	6.2	6.0	5.1	4.8	5.0	5.4	5.1	5.0
Water Year Types[b]												
Wet (31%)	4.9	6.0	7.9	7.4	8.5	8.1	6.6	5.3	5.4	5.6	5.4	5.7
Above Normal (25%)	4.5	4.6	5.1	8.2	8.2	7.2	5.1	4.8	4.8	5.4	5.1	5.0
Below Normal (6%)	4.7	4.8	4.8	5.6	5.7	5.3	4.6	4.6	4.9	5.0	4.9	4.8
Dry (13%)	4.7	4.8	5.0	5.0	4.9	5.3	4.6	4.8	5.0	5.5	5.2	4.8
Critical (25%)	4.7	4.7	4.8	5.0	4.6	4.5	4.4	4.5	4.8	5.2	4.9	4.7

Alternative 9 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.4	5.5	8.2	8.1	9.3	8.5	6.4	4.8	4.6	4.9	4.8	5.2
20%	4.3	4.8	4.6	7.5	8.5	7.5	4.4	4.3	4.5	4.8	4.7	5.0
30%	4.3	4.4	4.6	5.8	6.1	6.0	4.3	4.2	4.5	4.8	4.6	4.4
40%	4.1	4.3	4.5	4.8	5.1	4.9	4.1	4.2	4.4	4.7	4.6	4.4
50%	4.1	4.2	4.4	4.8	4.6	4.7	4.0	4.2	4.3	4.7	4.6	4.3
60%	4.1	4.2	4.3	4.5	4.2	4.4	4.0	4.1	4.3	4.7	4.5	4.3
70%	4.0	4.1	4.3	4.4	4.2	4.2	4.0	4.1	4.3	4.6	4.5	4.3
80%	4.0	3.9	4.1	4.1	4.1	4.0	4.0	4.0	4.2	4.5	4.4	4.2
90%	4.0	3.9	4.1	4.0	3.9	3.9	3.8	3.9	4.2	4.4	4.3	4.1
Long Term												
Full Simulation Period[a]	4.2	4.6	5.2	5.5	5.7	5.5	4.6	4.3	4.4	4.7	4.6	4.5
Water Year Types[b]												
Wet (31%)	4.4	5.6	7.7	6.9	8.4	8.0	6.3	4.8	4.8	4.9	4.8	5.2
Above Normal (25%)	3.9	4.0	4.5	8.0	8.0	6.7	4.5	4.2	4.2	4.6	4.5	4.4
Below Normal (6%)	4.1	4.3	4.1	4.9	5.1	4.7	4.0	4.0	4.3	4.4	4.4	4.2
Dry (13%)	4.2	4.2	4.3	4.4	4.3	4.7	4.1	4.3	4.5	4.7	4.6	4.3
Critical (25%)	4.1	4.2	4.3	4.3	4.1	4.0	3.9	4.0	4.2	4.6	4.4	4.2

Alternative 9 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-0.5**	**-0.4**	**-0.2**	**-0.3**	0.0	**0.0**	**-0.5**	**-0.6**	**-0.6**	**-0.7**	**-0.6**	**-0.5**
20%	**-0.5**	**-0.5**	**-0.7**	**-0.3**	**-0.1**	**-0.3**	**-0.7**	**-0.7**	**-0.6**	**-0.8**	**-0.6**	**-0.3**
30%	**-0.5**	**-0.6**	**-0.7**	**-0.6**	**-0.5**	**-0.6**	**-0.6**	**-0.6**	**-0.5**	**-0.8**	**-0.6**	**-0.6**
40%	**-0.6**	**-0.5**	**-0.7**	**-0.7**	**-0.6**	**-0.7**	**-0.6**	**-0.6**	**-0.5**	**-0.8**	**-0.6**	**-0.5**
50%	**-0.6**	**-0.5**	**-0.6**	**-0.7**	**-0.7**	**-0.7**	**-0.6**	**-0.4**	**-0.6**	**-0.8**	**-0.5**	**-0.5**
60%	**-0.5**	**-0.5**	**-0.6**	**-0.7**	**-0.6**	**-0.7**	**-0.5**	**-0.4**	**-0.6**	**-0.7**	**-0.6**	**-0.5**
70%	**-0.5**	**-0.5**	**-0.5**	**-0.7**	**-0.6**	**-0.6**	**-0.6**	**-0.5**	**-0.6**	**-0.8**	**-0.5**	**-0.5**
80%	**-0.5**	**-0.6**	**-0.6**	**-0.9**	**-0.6**	**-0.6**	**-0.5**	**-0.5**	**-0.6**	**-0.7**	**-0.6**	**-0.5**
90%	**-0.5**	**-0.5**	**-0.6**	**-0.6**	**-0.5**	**-0.6**	**-0.5**	**-0.5**	**-0.6**	**-0.6**	**-0.5**	**-0.5**
Long Term												
Full Simulation Period[a]	**-0.5**	**-0.5**	**-0.5**	**-0.6**	**-0.4**	**-0.5**	**-0.5**	**-0.5**	**-0.6**	**-0.7**	**-0.6**	**-0.5**
Water Year Types[b]												
Wet (31%)	**-0.5**	**-0.4**	**-0.2**	**-0.4**	**-0.1**	**-0.1**	**-0.3**	**-0.5**	**-0.6**	**-0.7**	**-0.6**	**-0.5**
Above Normal (25%)	**-0.6**	**-0.5**	**-0.7**	**-0.2**	**-0.2**	**-0.4**	**-0.6**	**-0.6**	**-0.6**	**-0.8**	**-0.6**	**-0.6**
Below Normal (6%)	**-0.6**	**-0.5**	**-0.6**	**-0.7**	**-0.6**	**-0.7**	**-0.6**	**-0.6**	**-0.6**	**-0.7**	**-0.6**	**-0.5**
Dry (13%)	**-0.5**	**-0.6**	**-0.7**	**-0.7**	**-0.6**	**-0.6**	**-0.5**	**-0.5**	**-0.6**	**-0.8**	**-0.6**	**-0.5**
Critical (25%)	**-0.5**	**-0.5**	**-0.6**	**-0.7**	**-0.5**	**-0.6**	**-0.5**	**-0.5**	**-0.6**	**-0.7**	**-0.5**	**-0.5**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-31-2-1. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Minimum Elevation

Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.1	3.1	6.2	5.9	7.4	6.8	4.3	1.9	0.6	0.9	0.6	0.8
20%	0.3	2.3	1.6	4.7	6.6	5.3	1.3	0.6	0.2	0.7	0.5	0.4
30%	0.2	0.5	1.1	3.2	3.5	3.9	1.0	0.5	0.2	0.7	0.4	0.3
40%	0.1	0.3	0.7	1.6	2.7	2.8	0.6	0.5	0.2	0.6	0.4	0.3
50%	0.1	0.1	0.7	1.5	1.6	2.2	0.5	0.4	0.1	0.6	0.4	0.3
60%	0.1	0.1	0.5	1.0	0.6	2.0	0.4	0.2	0.1	0.6	0.4	0.2
70%	0.0	0.0	0.3	0.6	0.6	1.1	0.4	0.1	0.0	0.5	0.3	0.2
80%	0.0	-0.1	0.3	0.4	0.5	0.5	0.2	0.0	-0.1	0.4	0.2	0.1
90%	-0.1	-0.2	-0.1	0.2	0.2	0.2	0.1	-0.1	-0.1	0.4	0.2	0.1
Long Term												
Full Simulation Period[a]	0.3	0.9	1.7	2.3	2.8	3.0	1.4	0.8	0.4	0.7	0.4	0.4
Water Year Types[b]												
Wet (31%)	0.8	2.8	5.2	4.4	6.3	6.3	3.6	2.2	1.6	1.1	0.6	1.1
Above Normal (25%)	0.0	0.3	1.0	5.8	5.5	4.7	1.9	0.9	0.2	0.5	0.4	0.3
Below Normal (6%)	0.3	0.1	0.0	1.6	2.7	2.3	0.6	0.6	0.2	0.6	0.4	0.2
Dry (13%)	0.1	0.5	0.6	0.7	0.9	2.0	0.6	0.3	0.1	0.6	0.5	0.2
Critical (25%)	0.2	0.1	0.4	0.7	0.4	0.6	0.2	-0.1	-0.1	0.5	0.2	0.1

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	3.1	6.8	6.9	8.1	7.3	5.0	2.3	1.6	2.3	1.7	2.9
20%	1.5	2.4	2.2	6.1	7.4	6.4	2.3	1.7	1.4	2.2	1.7	2.3
30%	1.4	1.8	2.1	4.2	4.7	4.8	2.0	1.6	1.3	2.1	1.6	1.8
40%	1.4	1.5	1.9	2.7	3.2	3.4	1.7	1.5	1.3	1.9	1.6	1.5
50%	1.4	1.4	1.7	2.5	2.5	3.0	1.6	1.4	1.3	1.9	1.5	1.4
60%	1.3	1.3	1.6	2.1	1.7	2.5	1.5	1.3	1.2	1.8	1.5	1.4
70%	1.3	1.2	1.4	1.9	1.6	2.0	1.5	1.3	1.2	1.7	1.4	1.4
80%	1.3	1.1	1.3	1.6	1.6	1.5	1.4	1.2	1.1	1.5	1.4	1.3
90%	1.1	1.0	1.1	1.3	1.3	1.4	1.2	1.0	1.1	1.4	1.3	1.3
Long Term												
Full Simulation Period[a]	1.4	1.9	2.7	3.4	3.8	3.8	2.4	1.6	1.4	1.8	1.5	1.8
Water Year Types[b]												
Wet (31%)	1.7	3.3	6.0	5.5	7.1	6.8	4.5	2.4	1.9	2.1	1.7	2.8
Above Normal (25%)	1.3	1.3	2.1	6.6	6.7	5.6	2.6	1.7	1.3	2.1	1.7	1.8
Below Normal (6%)	1.5	1.5	1.4	2.7	3.2	2.9	1.7	1.4	1.4	1.5	1.5	1.4
Dry (13%)	1.3	1.6	1.6	1.8	2.0	2.7	1.6	1.5	1.3	1.9	1.6	1.3
Critical (25%)	1.3	1.3	1.4	1.9	1.5	1.7	1.3	1.1	1.1	1.6	1.4	1.3

No Action Alternative (LLT) minus Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.6	0.0	0.6	1.1	0.7	0.6	0.7	0.4	1.0	1.4	1.1	2.1
20%	1.2	0.1	0.6	1.4	0.8	1.1	1.0	1.1	1.2	1.5	1.2	1.9
30%	1.2	1.3	1.0	0.9	1.2	0.9	0.9	1.1	1.1	1.4	1.2	1.5
40%	1.3	1.3	1.1	1.1	0.5	0.6	1.0	1.0	1.1	1.3	1.2	1.2
50%	1.3	1.3	1.0	1.0	0.9	0.8	1.0	1.0	1.1	1.3	1.1	1.1
60%	1.3	1.2	1.1	1.1	1.1	0.5	1.1	1.1	1.1	1.3	1.1	1.2
70%	1.3	1.2	1.0	1.3	1.0	0.9	1.1	1.1	1.2	1.2	1.1	1.2
80%	1.3	1.2	1.0	1.2	1.0	1.0	1.1	1.2	1.2	1.1	1.2	1.2
90%	1.2	1.2	1.2	1.1	1.1	1.2	1.1	1.2	1.2	1.0	1.2	1.2
Long Term												
Full Simulation Period[a]	1.1	1.0	1.0	1.0	1.0	0.8	1.0	0.9	1.0	1.2	1.1	1.3
Water Year Types[b]												
Wet (31%)	0.9	0.4	0.8	1.0	0.8	0.5	0.9	0.2	0.3	1.0	1.1	1.7
Above Normal (25%)	1.3	1.0	1.1	0.8	1.1	1.0	0.7	0.8	1.1	1.6	1.2	1.5
Below Normal (6%)	1.2	1.4	1.3	1.1	0.5	0.7	1.0	0.8	1.2	0.9	1.1	1.2
Dry (13%)	1.3	1.0	1.0	1.0	1.0	0.8	1.1	1.2	1.1	1.3	1.1	1.1
Critical (25%)	1.2	1.2	1.0	1.2	1.0	1.1	1.2	1.2	1.2	1.1	1.1	1.2

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

Table C-31-2-2. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.1	3.1	6.2	5.9	7.4	6.8	4.3	1.9	0.6	0.9	0.6	0.8
20%	0.3	2.3	1.6	4.7	6.6	5.3	1.3	0.6	0.2	0.7	0.5	0.4
30%	0.2	0.5	1.1	3.2	3.5	3.9	1.0	0.5	0.2	0.7	0.4	0.3
40%	0.1	0.3	0.7	1.6	2.7	2.8	0.6	0.5	0.2	0.6	0.4	0.3
50%	0.1	0.1	0.7	1.5	1.6	2.2	0.5	0.4	0.1	0.6	0.4	0.3
60%	0.1	0.1	0.5	1.0	0.6	2.0	0.4	0.2	0.1	0.6	0.4	0.2
70%	0.0	0.0	0.3	0.6	0.6	1.1	0.4	0.1	0.0	0.5	0.3	0.2
80%	0.0	-0.1	0.3	0.4	0.5	0.5	0.2	0.0	-0.1	0.4	0.2	0.1
90%	-0.1	-0.2	-0.1	0.2	0.2	0.2	0.1	-0.1	-0.1	0.4	0.2	0.1
Long Term												
Full Simulation Period[a]	0.3	0.9	1.7	2.3	2.8	3.0	1.4	0.8	0.4	0.7	0.4	0.4
Water Year Types[b]												
Wet (31%)	0.8	2.8	5.2	4.4	6.3	6.3	3.6	2.2	1.6	1.1	0.6	1.1
Above Normal (25%)	0.0	0.3	1.0	5.8	5.5	4.7	1.9	0.9	0.2	0.5	0.4	0.3
Below Normal (6%)	0.3	0.1	0.0	1.6	2.7	2.3	0.6	0.6	0.2	0.6	0.4	0.2
Dry (13%)	0.1	0.5	0.6	0.7	0.9	2.0	0.6	0.3	0.1	0.6	0.5	0.2
Critical (25%)	0.2	0.1	0.4	0.7	0.4	0.6	0.2	-0.1	-0.1	0.5	0.2	0.1

Alternative 1A,1B,1C (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.4	2.6	5.7	5.6	6.9	6.2	4.0	2.0	2.1	2.4	2.1	2.1
20%	2.1	2.2	2.1	4.8	6.0	5.0	2.2	1.8	2.0	2.4	2.1	2.0
30%	2.0	2.0	2.1	3.6	3.6	3.9	2.1	1.8	1.9	2.4	2.1	2.0
40%	1.9	1.7	2.0	2.4	2.5	2.6	1.9	1.7	1.8	2.3	1.9	1.9
50%	1.8	1.6	2.0	2.2	2.2	2.4	1.8	1.7	1.8	2.1	1.9	1.9
60%	1.8	1.5	1.8	2.0	1.8	2.3	1.8	1.6	1.7	2.0	1.9	1.8
70%	1.7	1.5	1.7	1.7	1.7	2.0	1.7	1.6	1.7	1.9	1.8	1.8
80%	1.7	1.4	1.6	1.6	1.7	1.7	1.6	1.5	1.7	1.9	1.8	1.7
90%	1.6	1.4	1.5	1.6	1.6	1.6	1.5	1.3	1.6	1.8	1.7	1.6
Long Term												
Full Simulation Period[a]	1.9	1.9	2.7	3.0	3.3	3.3	2.4	1.8	1.8	2.1	1.9	1.9
Water Year Types[b]												
Wet (31%)	1.8	3.1	5.3	4.5	6.0	5.8	4.0	2.2	2.1	2.3	1.9	2.0
Above Normal (25%)	2.0	1.4	2.1	5.3	5.6	4.6	2.2	1.7	1.7	2.1	1.8	1.6
Below Normal (6%)	2.6	1.5	1.6	2.4	2.5	2.4	1.9	1.6	1.8	1.8	1.6	1.7
Dry (13%)	1.7	1.6	1.8	2.0	1.8	2.5	1.9	1.8	1.8	2.3	2.1	1.9
Critical (25%)	2.1	1.6	1.7	1.7	1.7	1.7	1.6	1.4	1.6	2.0	1.9	1.9

Alternative 1A,1B,1C (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.4	**-0.5**	**-0.5**	**-0.3**	**-0.5**	**-0.6**	**-0.3**	0.1	1.5	1.5	1.5	1.2
20%	1.8	**0.0**	0.6	0.1	**-0.5**	**-0.2**	0.9	1.2	1.7	1.7	1.6	1.6
30%	1.8	1.5	1.0	0.4	0.1	**-0.1**	1.1	1.2	1.7	1.7	1.6	1.6
40%	1.7	1.5	1.3	0.8	**-0.2**	**-0.2**	1.2	1.2	1.6	1.6	1.5	1.6
50%	1.8	1.5	1.3	0.7	0.6	0.2	1.3	1.3	1.7	1.5	1.5	1.6
60%	1.7	1.4	1.3	0.9	1.1	0.3	1.4	1.4	1.6	1.4	1.5	1.6
70%	1.7	1.4	1.4	1.1	1.1	0.9	1.4	1.5	1.7	1.5	1.5	1.6
80%	1.7	1.5	1.3	1.2	1.2	1.2	1.4	1.5	1.8	1.5	1.5	1.6
90%	1.7	1.5	1.6	1.4	1.5	1.4	1.4	1.5	1.7	1.4	1.6	1.5
Long Term												
Full Simulation Period[a]	1.7	1.0	1.0	0.6	0.5	0.3	1.0	1.0	1.4	1.5	1.5	1.4
Water Year Types[b]												
Wet (31%)	1.0	0.2	0.0	0.0	**-0.3**	**-0.5**	0.4	0.0	0.5	1.2	1.3	0.9
Above Normal (25%)	2.0	1.2	1.2	**-0.4**	0.0	**-0.1**	0.3	0.9	1.5	1.6	1.4	1.3
Below Normal (6%)	2.3	1.3	1.6	0.8	**-0.2**	0.1	1.2	1.0	1.7	1.2	1.2	1.5
Dry (13%)	1.6	1.1	1.2	1.2	0.9	0.5	1.3	1.4	1.7	1.7	1.6	1.6
Critical (25%)	1.9	1.5	1.4	1.0	1.3	1.1	1.4	1.5	1.8	1.5	1.7	1.8

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-31-2-3. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.1	3.1	6.2	5.9	7.4	6.8	4.3	1.9	0.6	0.9	0.6	0.8
20%	0.3	2.3	1.6	4.7	6.6	5.3	1.3	0.6	0.2	0.7	0.5	0.4
30%	0.2	0.5	1.1	3.2	3.5	3.9	1.0	0.5	0.2	0.7	0.4	0.3
40%	0.1	0.3	0.7	1.6	2.7	2.8	0.6	0.5	0.2	0.6	0.4	0.3
50%	0.1	0.1	0.7	1.5	1.6	2.2	0.5	0.4	0.1	0.6	0.4	0.3
60%	0.1	0.1	0.5	1.0	0.6	2.0	0.4	0.2	0.1	0.6	0.4	0.2
70%	0.0	0.0	0.3	0.6	0.6	1.1	0.4	0.1	0.0	0.5	0.3	0.2
80%	0.0	-0.1	0.3	0.4	0.5	0.5	0.2	0.0	-0.1	0.4	0.2	0.1
90%	-0.1	-0.2	-0.1	0.2	0.2	0.2	0.1	-0.1	-0.1	0.4	0.2	0.1
Long Term												
Full Simulation Period[a]	0.3	0.9	1.7	2.3	2.8	3.0	1.4	0.8	0.4	0.7	0.4	0.4
Water Year Types[b]												
Wet (31%)	0.8	2.8	5.2	4.4	6.3	6.3	3.6	2.2	1.6	1.1	0.6	1.1
Above Normal (25%)	0.0	0.3	1.0	5.8	5.5	4.7	1.9	0.9	0.2	0.5	0.4	0.3
Below Normal (6%)	0.3	0.1	0.0	1.6	2.7	2.3	0.6	0.6	0.2	0.6	0.4	0.2
Dry (13%)	0.1	0.5	0.6	0.7	0.9	2.0	0.6	0.3	0.1	0.6	0.5	0.2
Critical (25%)	0.2	0.1	0.4	0.7	0.4	0.6	0.2	-0.1	-0.1	0.5	0.2	0.1

Alternative 2A,2B,2C (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.0	2.4	5.5	5.4	6.7	6.0	3.9	2.0	2.0	2.5	2.1	2.5
20%	1.9	2.2	2.1	4.7	5.9	4.9	2.2	1.9	1.9	2.4	2.1	2.2
30%	1.8	1.8	2.0	3.4	3.4	3.5	1.9	1.8	1.8	2.4	2.1	2.0
40%	1.8	1.8	2.0	2.2	2.4	2.5	1.8	1.7	1.8	2.3	2.0	2.0
50%	1.7	1.7	1.9	2.1	2.1	2.4	1.8	1.6	1.7	2.2	2.0	1.9
60%	1.7	1.5	1.8	2.1	1.7	2.2	1.7	1.6	1.7	2.1	1.9	1.9
70%	1.6	1.5	1.8	1.8	1.7	1.9	1.6	1.5	1.7	2.0	1.8	1.9
80%	1.6	1.5	1.6	1.6	1.6	1.6	1.6	1.5	1.6	1.9	1.8	1.9
90%	1.5	1.4	1.5	1.6	1.4	1.6	1.5	1.3	1.6	1.7	1.8	1.8
Long Term												
Full Simulation Period[a]	1.7	1.9	2.6	2.9	3.2	3.2	2.3	1.7	1.8	2.2	1.9	2.0
Water Year Types[b]												
Wet (31%)	1.8	2.7	5.1	4.4	5.9	5.6	3.9	2.2	2.0	2.4	1.9	2.5
Above Normal (25%)	1.9	1.4	2.1	5.1	5.3	4.5	2.0	1.8	1.6	2.4	1.9	1.8
Below Normal (6%)	1.7	1.5	1.6	2.4	2.4	2.3	1.9	1.6	1.7	1.7	1.7	1.8
Dry (13%)	1.6	1.7	1.8	1.7	1.8	2.2	1.8	1.8	1.8	2.3	2.0	1.9
Critical (25%)	1.8	1.7	1.7	1.9	1.6	1.7	1.6	1.4	1.6	2.0	1.9	1.9

Alternative 2A,2B,2C (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.9	**-0.7**	**-0.7**	**-0.4**	**-0.7**	**-0.8**	**-0.4**	0.0	1.3	1.6	1.4	1.7
20%	1.6	**-0.1**	0.6	**0.0**	**-0.7**	**-0.4**	0.9	1.3	1.7	1.7	1.6	1.8
30%	1.6	1.3	0.9	0.2	**0.0**	**-0.4**	0.9	1.2	1.6	1.7	1.6	1.7
40%	1.6	1.5	1.3	0.6	**-0.3**	**-0.2**	1.2	1.3	1.6	1.6	1.6	1.7
50%	1.6	1.6	1.2	0.6	0.5	0.1	1.3	1.3	1.6	1.6	1.5	1.7
60%	1.6	1.4	1.3	1.1	1.1	0.2	1.3	1.4	1.6	1.5	1.5	1.7
70%	1.6	1.5	1.4	1.3	1.1	0.8	1.3	1.4	1.7	1.5	1.5	1.7
80%	1.6	1.6	1.3	1.2	1.1	1.1	1.4	1.5	1.7	1.5	1.6	1.8
90%	1.6	1.5	1.6	1.3	1.3	1.4	1.4	1.5	1.7	1.4	1.6	1.7
Long Term												
Full Simulation Period[a]	1.5	1.0	0.9	0.6	0.4	0.2	0.9	1.0	1.3	1.5	1.5	1.6
Water Year Types[b]												
Wet (31%)	1.0	**-0.1**	**-0.2**	**-0.1**	**-0.4**	**-0.7**	0.3	**-0.1**	0.4	1.3	1.3	1.4
Above Normal (25%)	1.9	1.2	1.1	**-0.6**	**-0.2**	**-0.2**	0.1	0.9	1.4	1.9	1.5	1.5
Below Normal (6%)	1.4	1.4	1.6	0.8	**-0.3**	0.0	1.2	1.0	1.5	1.1	1.3	1.6
Dry (13%)	1.5	1.1	1.2	1.0	0.8	0.3	1.2	1.4	1.7	1.7	1.5	1.7
Critical (25%)	1.6	1.6	1.4	1.2	1.2	1.1	1.4	1.5	1.8	1.5	1.7	1.8

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-31-2-4. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.1	3.1	6.2	5.9	7.4	6.8	4.3	1.9	0.6	0.9	0.6	0.8
20%	0.3	2.3	1.6	4.7	6.6	5.3	1.3	0.6	0.2	0.7	0.5	0.4
30%	0.2	0.5	1.1	3.2	3.5	3.9	1.0	0.5	0.2	0.7	0.4	0.3
40%	0.1	0.3	0.7	1.6	2.7	2.8	0.6	0.5	0.2	0.6	0.4	0.3
50%	0.1	0.1	0.7	1.5	1.6	2.2	0.5	0.4	0.1	0.6	0.4	0.3
60%	0.1	0.1	0.5	1.0	0.6	2.0	0.4	0.2	0.1	0.6	0.4	0.2
70%	0.0	0.0	0.3	0.6	0.6	1.1	0.4	0.1	0.0	0.5	0.3	0.2
80%	0.0	-0.1	0.3	0.4	0.5	0.5	0.2	0.0	-0.1	0.4	0.2	0.1
90%	-0.1	-0.2	-0.1	0.2	0.2	0.2	0.1	-0.1	-0.1	0.4	0.2	0.1
Long Term												
Full Simulation Period[a]	0.3	0.9	1.7	2.3	2.8	3.0	1.4	0.8	0.4	0.7	0.4	0.4
Water Year Types[b]												
Wet (31%)	0.8	2.8	5.2	4.4	6.3	6.3	3.6	2.2	1.6	1.1	0.6	1.1
Above Normal (25%)	0.0	0.3	1.0	5.8	5.5	4.7	1.9	0.9	0.2	0.5	0.4	0.3
Below Normal (6%)	0.3	0.1	0.0	1.6	2.7	2.3	0.6	0.6	0.2	0.6	0.4	0.2
Dry (13%)	0.1	0.5	0.6	0.7	0.9	2.0	0.6	0.3	0.1	0.6	0.5	0.2
Critical (25%)	0.2	0.1	0.4	0.7	0.4	0.6	0.2	-0.1	-0.1	0.5	0.2	0.1

Alternative 3 (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.4	3.1	6.4	6.1	7.4	6.7	4.4	2.3	2.2	2.4	2.1	2.1
20%	2.2	2.4	2.3	5.4	6.6	5.5	2.2	1.9	1.9	2.4	2.1	2.0
30%	2.1	1.7	2.2	3.7	3.9	4.1	2.0	1.8	1.8	2.3	2.0	2.0
40%	2.0	1.7	2.0	2.6	2.8	2.7	1.8	1.7	1.8	2.3	2.0	1.9
50%	1.9	1.6	2.0	2.3	2.3	2.6	1.8	1.6	1.7	2.1	1.9	1.9
60%	1.8	1.6	1.9	2.1	1.9	2.3	1.7	1.6	1.7	2.0	1.9	1.8
70%	1.7	1.6	1.7	1.8	1.8	2.1	1.7	1.5	1.7	2.0	1.9	1.8
80%	1.7	1.5	1.7	1.7	1.8	1.7	1.6	1.5	1.7	1.8	1.9	1.8
90%	1.6	1.5	1.5	1.6	1.5	1.6	1.5	1.3	1.6	1.7	1.8	1.8
Long Term												
Full Simulation Period[a]	2.0	2.1	2.8	3.2	3.5	3.5	2.4	1.8	1.9	2.1	1.9	2.0
Water Year Types[b]												
Wet (31%)	1.9	3.3	5.7	4.8	6.4	6.1	4.3	2.4	2.3	2.3	2.0	2.2
Above Normal (25%)	2.1	1.6	2.1	5.9	6.0	4.8	2.4	1.7	1.8	2.1	1.9	1.8
Below Normal (6%)	2.2	1.6	1.7	2.6	2.8	2.5	1.8	1.6	1.8	1.7	1.7	1.7
Dry (13%)	1.7	1.7	1.9	1.9	2.0	2.6	1.8	1.8	1.8	2.3	2.0	1.9
Critical (25%)	2.2	1.6	1.7	1.9	1.7	1.8	1.6	1.4	1.6	2.0	1.9	1.9

Alternative 3 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.4	**0.0**	0.2	0.2	0.1	**-0.1**	0.1	0.3	1.6	1.5	1.5	1.2
20%	1.9	0.1	0.8	0.7	0.0	0.3	0.9	1.3	1.7	1.7	1.6	1.6
30%	1.9	1.2	1.1	0.5	0.5	0.1	1.0	1.3	1.7	1.7	1.6	1.7
40%	1.9	1.4	1.3	1.0	0.0	**0.0**	1.2	1.2	1.6	1.7	1.6	1.6
50%	1.8	1.5	1.3	0.8	0.7	0.4	1.3	1.3	1.6	1.5	1.5	1.6
60%	1.7	1.5	1.4	1.0	1.2	0.3	1.4	1.4	1.7	1.4	1.5	1.6
70%	1.7	1.5	1.4	1.2	1.2	1.0	1.3	1.4	1.7	1.5	1.5	1.7
80%	1.7	1.6	1.4	1.3	1.2	1.2	1.4	1.5	1.8	1.4	1.6	1.7
90%	1.7	1.6	1.6	1.4	1.3	1.4	1.4	1.4	1.7	1.4	1.6	1.7
Long Term												
Full Simulation Period[a]	1.7	1.1	1.1	0.8	0.7	0.5	1.0	1.1	1.4	1.5	1.5	1.5
Water Year Types[b]												
Wet (31%)	1.1	0.5	0.5	0.4	0.1	**-0.1**	0.6	0.2	0.7	1.2	1.4	1.1
Above Normal (25%)	2.1	1.3	1.2	0.1	0.5	0.1	0.5	0.8	1.6	1.6	1.5	1.5
Below Normal (6%)	1.9	1.5	1.6	1.0	0.0	0.3	1.2	1.0	1.6	1.2	1.3	1.5
Dry (13%)	1.6	1.1	1.3	1.2	1.0	0.7	1.3	1.5	1.7	1.7	1.5	1.6
Critical (25%)	2.0	1.5	1.4	1.2	1.2	1.2	1.4	1.5	1.7	1.5	1.7	1.8

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-31-2-5. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.1	3.1	6.2	5.9	7.4	6.8	4.3	1.9	0.6	0.9	0.6	0.8
20%	0.3	2.3	1.6	4.7	6.6	5.3	1.3	0.6	0.2	0.7	0.5	0.4
30%	0.2	0.5	1.1	3.2	3.5	3.9	1.0	0.5	0.2	0.7	0.4	0.3
40%	0.1	0.3	0.7	1.6	2.7	2.8	0.6	0.5	0.2	0.6	0.4	0.3
50%	0.1	0.1	0.7	1.5	1.6	2.2	0.5	0.4	0.1	0.6	0.4	0.3
60%	0.1	0.1	0.5	1.0	0.6	2.0	0.4	0.2	0.1	0.6	0.4	0.2
70%	0.0	0.0	0.3	0.6	0.6	1.1	0.4	0.1	0.0	0.5	0.3	0.2
80%	0.0	-0.1	0.3	0.4	0.5	0.5	0.2	0.0	-0.1	0.4	0.2	0.1
90%	-0.1	-0.2	-0.1	0.2	0.2	0.2	0.1	-0.1	-0.1	0.4	0.2	0.1
Long Term												
Full Simulation Period[a]	0.3	0.9	1.7	2.3	2.8	3.0	1.4	0.8	0.4	0.7	0.4	0.4
Water Year Types[b]												
Wet (31%)	0.8	2.8	5.2	4.4	6.3	6.3	3.6	2.2	1.6	1.1	0.6	1.1
Above Normal (25%)	0.0	0.3	1.0	5.8	5.5	4.7	1.9	0.9	0.2	0.5	0.4	0.3
Below Normal (6%)	0.3	0.1	0.0	1.6	2.7	2.3	0.6	0.6	0.2	0.6	0.4	0.2
Dry (13%)	0.1	0.5	0.6	0.7	0.9	2.0	0.6	0.3	0.1	0.6	0.5	0.2
Critical (25%)	0.2	0.1	0.4	0.7	0.4	0.6	0.2	-0.1	-0.1	0.5	0.2	0.1

Alternative 4 H1 (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.0	3.0	6.1	5.8	7.3	6.4	4.1	2.1	2.0	2.6	2.1	2.1
20%	2.0	2.3	2.3	5.1	6.3	5.3	2.3	1.9	1.9	2.5	2.1	2.0
30%	2.0	1.7	2.1	3.5	3.7	4.0	1.9	1.8	1.8	2.3	2.0	2.0
40%	1.8	1.6	2.1	2.4	2.6	2.6	1.8	1.7	1.8	2.3	2.0	1.9
50%	1.7	1.6	1.9	2.3	2.3	2.4	1.8	1.6	1.7	2.2	2.0	1.9
60%	1.6	1.5	1.8	2.3	1.8	2.3	1.7	1.6	1.7	2.0	1.9	1.9
70%	1.6	1.5	1.8	2.0	1.7	1.9	1.6	1.5	1.7	2.0	1.9	1.9
80%	1.6	1.5	1.6	1.9	1.7	1.6	1.6	1.5	1.7	1.9	1.8	1.7
90%	1.6	1.4	1.5	1.6	1.5	1.6	1.5	1.3	1.6	1.7	1.8	1.7
Long Term												
Full Simulation Period[a]	1.8	2.0	2.8	3.1	3.4	3.4	2.3	1.8	1.8	2.2	1.9	1.9
Water Year Types[b]												
Wet (31%)	1.8	3.1	5.5	4.6	6.2	5.9	4.1	2.3	2.1	2.4	1.9	2.1
Above Normal (25%)	1.9	1.5	2.1	5.7	5.8	4.7	2.1	1.7	1.7	2.4	1.9	1.7
Below Normal (6%)	2.0	1.6	1.6	2.5	2.7	2.5	1.8	1.6	1.7	1.6	1.6	1.6
Dry (13%)	1.6	1.6	1.9	1.8	1.9	2.5	1.8	1.8	1.8	2.3	2.1	2.0
Critical (25%)	1.8	1.6	1.8	2.0	1.6	1.7	1.6	1.4	1.6	1.9	1.9	1.9

Alternative 4 H1 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.9	**-0.1**	**-0.1**	**0.0**	**-0.1**	**-0.4**	**-0.2**	0.2	1.4	1.7	1.5	1.3
20%	1.7	0.0	0.7	0.4	**-0.3**	**0.0**	1.0	1.3	1.7	1.8	1.6	1.6
30%	1.7	1.2	1.0	0.3	0.2	0.1	0.9	1.3	1.6	1.7	1.6	1.7
40%	1.7	1.4	1.3	0.8	**-0.1**	**-0.1**	1.2	1.2	1.6	1.7	1.6	1.6
50%	1.6	1.5	1.2	0.8	0.6	0.2	1.2	1.3	1.6	1.6	1.6	1.6
60%	1.6	1.4	1.4	1.2	1.2	0.3	1.3	1.4	1.6	1.4	1.5	1.7
70%	1.6	1.4	1.5	1.5	1.1	0.8	1.3	1.4	1.7	1.5	1.5	1.7
80%	1.6	1.5	1.3	1.4	1.2	1.1	1.4	1.5	1.7	1.5	1.6	1.6
90%	1.6	1.6	1.6	1.3	1.4	1.4	1.4	1.4	1.7	1.4	1.6	1.6
Long Term												
Full Simulation Period[a]	1.5	1.1	1.1	0.8	0.6	0.4	0.9	1.0	1.4	1.5	1.5	1.5
Water Year Types[b]												
Wet (31%)	1.0	0.3	0.2	0.2	**-0.1**	**-0.4**	0.4	0.1	0.6	1.3	1.3	1.0
Above Normal (25%)	1.8	1.2	1.2	**-0.1**	0.3	0.0	0.2	0.8	1.4	1.9	1.5	1.4
Below Normal (6%)	1.7	1.5	1.6	0.9	**-0.1**	0.2	1.2	1.0	1.5	1.0	1.2	1.4
Dry (13%)	1.5	1.1	1.2	1.1	0.9	0.5	1.2	1.5	1.7	1.7	1.6	1.7
Critical (25%)	1.7	1.5	1.4	1.3	1.2	1.1	1.4	1.5	1.7	1.5	1.7	1.8

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-31-2-6. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.1	3.1	6.2	5.9	7.4	6.8	4.3	1.9	0.6	0.9	0.6	0.8
20%	0.3	2.3	1.6	4.7	6.6	5.3	1.3	0.6	0.2	0.7	0.5	0.4
30%	0.2	0.5	1.1	3.2	3.5	3.9	1.0	0.5	0.2	0.7	0.4	0.3
40%	0.1	0.3	0.7	1.6	2.7	2.8	0.6	0.5	0.2	0.6	0.4	0.3
50%	0.1	0.1	0.7	1.5	1.6	2.2	0.5	0.4	0.1	0.6	0.4	0.3
60%	0.1	0.1	0.5	1.0	0.6	2.0	0.4	0.2	0.1	0.6	0.4	0.2
70%	0.0	0.0	0.3	0.6	0.6	1.1	0.4	0.1	0.0	0.5	0.3	0.2
80%	0.0	-0.1	0.3	0.4	0.5	0.5	0.2	0.0	-0.1	0.4	0.2	0.1
90%	-0.1	-0.2	-0.1	0.2	0.2	0.2	0.1	-0.1	-0.1	0.4	0.2	0.1
Long Term												
Full Simulation Period[a]	0.3	0.9	1.7	2.3	2.8	3.0	1.4	0.8	0.4	0.7	0.4	0.4
Water Year Types[b]												
Wet (31%)	0.8	2.8	5.2	4.4	6.3	6.3	3.6	2.2	1.6	1.1	0.6	1.1
Above Normal (25%)	0.0	0.3	1.0	5.8	5.5	4.7	1.9	0.9	0.2	0.5	0.4	0.3
Below Normal (6%)	0.3	0.1	0.0	1.6	2.7	2.3	0.6	0.6	0.2	0.6	0.4	0.2
Dry (13%)	0.1	0.5	0.6	0.7	0.9	2.0	0.6	0.3	0.1	0.6	0.5	0.2
Critical (25%)	0.2	0.1	0.4	0.7	0.4	0.6	0.2	-0.1	-0.1	0.5	0.2	0.1

Alternative 4 H2 (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.1	3.0	6.2	5.8	7.3	6.4	4.4	2.2	2.0	2.4	2.1	2.1
20%	2.0	2.4	2.3	5.1	6.3	5.3	2.6	2.0	1.9	2.3	2.1	2.0
30%	2.0	1.7	2.1	3.5	3.8	4.2	2.4	1.9	1.8	2.2	2.0	2.0
40%	1.8	1.6	2.1	2.3	2.6	2.6	2.0	1.9	1.8	2.1	2.0	2.0
50%	1.7	1.6	1.8	2.2	2.3	2.5	1.8	1.7	1.7	2.0	1.9	1.9
60%	1.7	1.5	1.8	2.2	1.7	2.3	1.8	1.6	1.7	2.0	1.9	1.8
70%	1.6	1.5	1.7	2.0	1.7	1.9	1.7	1.6	1.7	1.9	1.9	1.8
80%	1.6	1.5	1.5	1.8	1.7	1.6	1.6	1.5	1.7	1.8	1.8	1.7
90%	1.6	1.4	1.5	1.6	1.4	1.6	1.5	1.3	1.6	1.7	1.7	1.7
Long Term												
Full Simulation Period[a]	1.8	2.0	2.7	3.1	3.4	3.4	2.5	1.8	1.8	2.0	1.9	1.9
Water Year Types[b]												
Wet (31%)	1.8	3.1	5.5	4.6	6.2	5.9	4.4	2.4	2.1	2.2	1.9	2.1
Above Normal (25%)	1.9	1.5	2.1	5.8	5.8	4.7	2.8	2.0	1.7	1.9	1.9	1.7
Below Normal (6%)	1.6	1.6	1.5	2.5	2.8	2.6	1.8	1.6	1.7	1.6	1.6	1.6
Dry (13%)	1.7	1.6	1.8	1.8	1.9	2.5	1.8	1.8	1.8	2.1	2.0	1.9
Critical (25%)	1.9	1.6	1.7	2.0	1.6	1.8	1.5	1.4	1.6	2.0	1.9	2.0

Alternative 4 H2 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.0	**-0.1**	**0.0**	**0.0**	**-0.1**	**-0.4**	0.1	0.3	1.4	1.4	1.4	1.2
20%	1.7	0.1	0.8	0.4	**-0.3**	0.0	1.3	1.3	1.6	1.6	1.6	1.6
30%	1.8	1.2	1.0	0.3	0.3	0.2	1.4	1.4	1.6	1.5	1.6	1.6
40%	1.6	1.4	1.4	0.7	**-0.1**	**-0.1**	1.4	1.4	1.6	1.5	1.6	1.6
50%	1.7	1.5	1.1	0.7	0.7	0.2	1.3	1.3	1.6	1.4	1.5	1.6
60%	1.6	1.4	1.3	1.2	1.1	0.3	1.4	1.4	1.6	1.4	1.5	1.6
70%	1.6	1.4	1.4	1.4	1.1	0.9	1.3	1.4	1.7	1.4	1.5	1.6
80%	1.6	1.5	1.2	1.4	1.2	1.1	1.4	1.5	1.7	1.4	1.6	1.6
90%	1.6	1.6	1.5	1.4	1.3	1.4	1.4	1.4	1.7	1.3	1.6	1.6
Long Term												
Full Simulation Period[a]	1.5	1.1	1.0	0.8	0.6	0.4	1.1	1.1	1.4	1.4	1.5	1.5
Water Year Types[b]												
Wet (31%)	1.1	0.3	0.3	0.2	**-0.1**	**-0.4**	0.7	0.2	0.5	1.1	1.3	1.0
Above Normal (25%)	1.9	1.2	1.2	0.0	0.3	0.0	0.9	1.1	1.4	1.4	1.4	1.4
Below Normal (6%)	1.3	1.4	1.5	0.9	0.0	0.3	1.2	1.0	1.5	1.0	1.2	1.4
Dry (13%)	1.6	1.1	1.2	1.0	0.9	0.6	1.2	1.4	1.7	1.5	1.5	1.6
Critical (25%)	1.7	1.5	1.3	1.3	1.2	1.1	1.3	1.5	1.7	1.5	1.7	1.8

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-31-2-7. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.1	3.1	6.2	5.9	7.4	6.8	4.3	1.9	0.6	0.9	0.6	0.8
20%	0.3	2.3	1.6	4.7	6.6	5.3	1.3	0.6	0.2	0.7	0.5	0.4
30%	0.2	0.5	1.1	3.2	3.5	3.9	1.0	0.5	0.2	0.7	0.4	0.3
40%	0.1	0.3	0.7	1.6	2.7	2.8	0.6	0.5	0.2	0.6	0.4	0.3
50%	0.1	0.1	0.7	1.5	1.6	2.2	0.5	0.4	0.1	0.6	0.4	0.3
60%	0.1	0.1	0.5	1.0	0.6	2.0	0.4	0.2	0.1	0.6	0.4	0.2
70%	0.0	0.0	0.3	0.6	0.6	1.1	0.4	0.1	0.0	0.5	0.3	0.2
80%	0.0	-0.1	0.3	0.4	0.5	0.5	0.2	0.0	-0.1	0.4	0.2	0.1
90%	-0.1	-0.2	-0.1	0.2	0.2	0.2	0.1	-0.1	-0.1	0.4	0.2	0.1
Long Term												
Full Simulation Period[a]	0.3	0.9	1.7	2.3	2.8	3.0	1.4	0.8	0.4	0.7	0.4	0.4
Water Year Types[b]												
Wet (31%)	0.8	2.8	5.2	4.4	6.3	6.3	3.6	2.2	1.6	1.1	0.6	1.1
Above Normal (25%)	0.0	0.3	1.0	5.8	5.5	4.7	1.9	0.9	0.2	0.5	0.4	0.3
Below Normal (6%)	0.3	0.1	0.0	1.6	2.7	2.3	0.6	0.6	0.2	0.6	0.4	0.2
Dry (13%)	0.1	0.5	0.6	0.7	0.9	2.0	0.6	0.3	0.1	0.6	0.5	0.2
Critical (25%)	0.2	0.1	0.4	0.7	0.4	0.6	0.2	-0.1	-0.1	0.5	0.2	0.1

Alternative 4 H3 (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.0	3.0	6.0	5.8	7.1	6.4	4.1	2.1	2.0	2.6	2.1	2.5
20%	1.9	2.3	2.1	5.1	6.3	5.3	2.3	1.9	1.9	2.5	2.1	2.4
30%	1.8	1.8	2.1	3.6	3.7	3.8	1.9	1.8	1.8	2.3	2.1	2.0
40%	1.8	1.7	2.1	2.5	2.6	2.6	1.8	1.7	1.8	2.3	2.0	2.0
50%	1.7	1.7	2.0	2.3	2.3	2.4	1.7	1.6	1.7	2.2	2.0	2.0
60%	1.7	1.6	1.8	2.2	1.8	2.3	1.7	1.6	1.7	2.1	1.9	1.9
70%	1.6	1.5	1.8	1.9	1.7	1.9	1.6	1.5	1.7	2.0	1.9	1.9
80%	1.6	1.5	1.5	1.7	1.7	1.6	1.6	1.5	1.7	1.9	1.8	1.9
90%	1.6	1.4	1.5	1.5	1.5	1.6	1.5	1.3	1.6	1.7	1.8	1.9
Long Term												
Full Simulation Period[a]	1.8	2.0	2.7	3.1	3.4	3.3	2.3	1.8	1.8	2.2	1.9	2.1
Water Year Types[b]												
Wet (31%)	1.8	3.1	5.4	4.6	6.2	5.9	4.1	2.3	2.1	2.4	1.9	2.6
Above Normal (25%)	2.0	1.5	2.1	5.6	5.7	4.7	2.1	1.7	1.7	2.4	1.9	2.0
Below Normal (6%)	1.7	1.6	1.5	2.5	2.7	2.5	1.8	1.6	1.7	1.6	1.6	1.8
Dry (13%)	1.6	1.7	1.8	1.8	1.9	2.4	1.8	1.8	1.8	2.3	2.0	1.9
Critical (25%)	1.8	1.7	1.8	2.0	1.6	1.8	1.5	1.4	1.6	1.9	1.9	1.9

Alternative 4 H3 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.9	**-0.1**	**-0.2**	**0.0**	**-0.3**	**-0.4**	**-0.2**	0.2	1.4	1.7	1.4	1.7
20%	1.6	0.1	0.6	0.4	**-0.3**	**0.0**	0.9	1.3	1.7	1.8	1.6	2.1
30%	1.6	1.3	1.0	0.4	0.2	**-0.1**	0.9	1.3	1.6	1.7	1.6	1.7
40%	1.6	1.5	1.4	0.9	**-0.1**	**-0.1**	1.1	1.3	1.6	1.6	1.6	1.7
50%	1.6	1.6	1.3	0.8	0.7	0.2	1.2	1.3	1.6	1.6	1.6	1.7
60%	1.6	1.5	1.3	1.2	1.2	0.3	1.3	1.4	1.6	1.5	1.5	1.7
70%	1.6	1.5	1.4	1.3	1.1	0.8	1.3	1.4	1.7	1.5	1.5	1.8
80%	1.6	1.5	1.3	1.3	1.2	1.1	1.4	1.5	1.7	1.5	1.6	1.8
90%	1.7	1.6	1.6	1.3	1.3	1.4	1.4	1.4	1.7	1.4	1.6	1.7
Long Term												
Full Simulation Period[a]	1.5	1.1	1.0	0.7	0.6	0.4	0.9	1.0	1.4	1.5	1.5	1.7
Water Year Types[b]												
Wet (31%)	1.0	0.3	0.2	0.2	**-0.1**	**-0.4**	0.4	0.0	0.6	1.3	1.3	1.5
Above Normal (25%)	1.9	1.2	1.2	**-0.2**	0.1	0.0	0.2	0.8	1.4	1.9	1.5	1.6
Below Normal (6%)	1.4	1.5	1.5	0.9	**-0.1**	0.2	1.2	1.0	1.6	1.0	1.2	1.6
Dry (13%)	1.6	1.2	1.2	1.0	1.0	0.4	1.2	1.5	1.7	1.7	1.5	1.7
Critical (25%)	1.6	1.6	1.4	1.3	1.2	1.1	1.4	1.5	1.7	1.5	1.7	1.8

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-31-2-8. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.1	3.1	6.2	5.9	7.4	6.8	4.3	1.9	0.6	0.9	0.6	0.8
20%	0.3	2.3	1.6	4.7	6.6	5.3	1.3	0.6	0.2	0.7	0.5	0.4
30%	0.2	0.5	1.1	3.2	3.5	3.9	1.0	0.5	0.2	0.7	0.4	0.3
40%	0.1	0.3	0.7	1.6	2.7	2.8	0.6	0.5	0.2	0.6	0.4	0.3
50%	0.1	0.1	0.7	1.5	1.6	2.2	0.5	0.4	0.1	0.6	0.4	0.3
60%	0.1	0.1	0.5	1.0	0.6	2.0	0.4	0.2	0.1	0.6	0.4	0.2
70%	0.0	0.0	0.3	0.6	0.6	1.1	0.4	0.1	0.0	0.5	0.3	0.2
80%	0.0	-0.1	0.3	0.4	0.5	0.5	0.2	0.0	-0.1	0.4	0.2	0.1
90%	-0.1	-0.2	-0.1	0.2	0.2	0.2	0.1	-0.1	-0.1	0.4	0.2	0.1
Long Term												
Full Simulation Period[a]	0.3	0.9	1.7	2.3	2.8	3.0	1.4	0.8	0.4	0.7	0.4	0.4
Water Year Types[b]												
Wet (31%)	0.8	2.8	5.2	4.4	6.3	6.3	3.6	2.2	1.6	1.1	0.6	1.1
Above Normal (25%)	0.0	0.3	1.0	5.8	5.5	4.7	1.9	0.9	0.2	0.5	0.4	0.3
Below Normal (6%)	0.3	0.1	0.0	1.6	2.7	2.3	0.6	0.6	0.2	0.6	0.4	0.2
Dry (13%)	0.1	0.5	0.6	0.7	0.9	2.0	0.6	0.3	0.1	0.6	0.5	0.2
Critical (25%)	0.2	0.1	0.4	0.7	0.4	0.6	0.2	-0.1	-0.1	0.5	0.2	0.1

Alternative 4 H4 (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.0	2.9	6.0	5.9	7.1	6.4	4.4	2.2	2.0	2.3	2.1	2.6
20%	2.0	2.3	2.2	5.1	6.3	5.3	2.6	1.9	1.9	2.3	2.1	2.5
30%	1.9	1.8	2.1	3.5	3.7	4.1	2.4	1.9	1.8	2.2	2.1	2.0
40%	1.8	1.8	2.1	2.3	2.6	2.6	2.1	1.9	1.8	2.1	2.0	2.0
50%	1.8	1.7	1.8	2.2	2.3	2.4	1.8	1.7	1.7	2.0	2.0	2.0
60%	1.7	1.6	1.8	2.0	1.8	2.3	1.8	1.6	1.7	2.0	1.9	2.0
70%	1.7	1.5	1.7	1.8	1.7	1.9	1.7	1.6	1.7	1.9	1.9	1.9
80%	1.6	1.5	1.6	1.7	1.7	1.6	1.6	1.5	1.7	1.8	1.8	1.9
90%	1.6	1.4	1.5	1.5	1.5	1.6	1.5	1.3	1.6	1.7	1.8	1.8
Long Term												
Full Simulation Period[a]	1.8	2.0	2.7	3.0	3.4	3.4	2.5	1.8	1.8	2.0	1.9	2.1
Water Year Types[b]												
Wet (31%)	1.9	3.1	5.5	4.6	6.2	5.9	4.4	2.4	2.1	2.2	2.0	2.6
Above Normal (25%)	1.9	1.5	2.1	5.8	5.7	4.7	2.8	2.0	1.7	1.9	1.9	2.0
Below Normal (6%)	1.8	1.6	1.6	2.5	2.7	2.5	1.8	1.6	1.7	1.6	1.8	1.7
Dry (13%)	1.6	1.7	1.8	1.8	1.9	2.5	1.8	1.7	1.8	2.1	2.0	1.9
Critical (25%)	1.8	1.7	1.7	1.8	1.6	1.7	1.6	1.4	1.6	2.0	1.9	2.0

Alternative 4 H4 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.9	**-0.2**	**-0.2**	**0.0**	**-0.3**	**-0.4**	0.1	0.3	1.4	1.4	1.4	1.7
20%	1.7	0.1	0.6	0.4	**-0.3**	0.0	1.3	1.3	1.6	1.6	1.6	2.1
30%	1.7	1.3	1.0	0.3	0.3	0.1	1.4	1.4	1.6	1.5	1.6	1.7
40%	1.7	1.5	1.3	0.7	**-0.1**	**-0.1**	1.4	1.4	1.6	1.4	1.6	1.7
50%	1.7	1.6	1.1	0.7	0.7	0.2	1.3	1.3	1.6	1.4	1.6	1.7
60%	1.7	1.5	1.3	0.9	1.1	0.3	1.4	1.4	1.6	1.4	1.5	1.7
70%	1.7	1.5	1.4	1.2	1.1	0.8	1.3	1.4	1.7	1.4	1.5	1.8
80%	1.6	1.6	1.3	1.3	1.2	1.1	1.4	1.5	1.7	1.4	1.6	1.8
90%	1.6	1.6	1.5	1.3	1.3	1.4	1.4	1.4	1.7	1.3	1.6	1.7
Long Term												
Full Simulation Period[a]	1.5	1.1	1.0	0.7	0.6	0.4	1.1	1.1	1.4	1.3	1.5	1.7
Water Year Types[b]												
Wet (31%)	1.1	0.2	0.2	0.2	**-0.1**	**-0.4**	0.7	0.1	0.5	1.1	1.4	1.5
Above Normal (25%)	1.9	1.2	1.2	**0.0**	0.2	0.0	0.9	1.1	1.4	1.4	1.4	1.6
Below Normal (6%)	1.5	1.5	1.5	0.9	**0.0**	0.2	1.2	1.0	1.5	1.0	1.3	1.5
Dry (13%)	1.6	1.2	1.1	1.0	0.9	0.6	1.2	1.4	1.7	1.5	1.5	1.7
Critical (25%)	1.6	1.6	1.3	1.1	1.2	1.1	1.4	1.5	1.7	1.5	1.7	1.8

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-31-2-9. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.1	3.1	6.2	5.9	7.4	6.8	4.3	1.9	0.6	0.9	0.6	0.8
20%	0.3	2.3	1.6	4.7	6.6	5.3	1.3	0.6	0.2	0.7	0.5	0.4
30%	0.2	0.5	1.1	3.2	3.5	3.9	1.0	0.5	0.2	0.7	0.4	0.3
40%	0.1	0.3	0.7	1.6	2.7	2.8	0.6	0.5	0.2	0.6	0.4	0.3
50%	0.1	0.1	0.7	1.5	1.6	2.2	0.5	0.4	0.1	0.6	0.4	0.3
60%	0.1	0.1	0.5	1.0	0.6	2.0	0.4	0.2	0.1	0.6	0.4	0.2
70%	0.0	0.0	0.3	0.6	0.6	1.1	0.4	0.1	0.0	0.5	0.3	0.2
80%	0.0	-0.1	0.3	0.4	0.5	0.5	0.2	0.0	-0.1	0.4	0.2	0.1
90%	-0.1	-0.2	-0.1	0.2	0.2	0.2	0.1	-0.1	-0.1	0.4	0.2	0.1
Long Term												
Full Simulation Period[a]	0.3	0.9	1.7	2.3	2.8	3.0	1.4	0.8	0.4	0.7	0.4	0.4
Water Year Types[b]												
Wet (31%)	0.8	2.8	5.2	4.4	6.3	6.3	3.6	2.2	1.6	1.1	0.6	1.1
Above Normal (25%)	0.0	0.3	1.0	5.8	5.5	4.7	1.9	0.9	0.2	0.5	0.4	0.3
Below Normal (6%)	0.3	0.1	0.0	1.6	2.7	2.3	0.6	0.6	0.2	0.6	0.4	0.2
Dry (13%)	0.1	0.5	0.6	0.7	0.9	2.0	0.6	0.3	0.1	0.6	0.5	0.2
Critical (25%)	0.2	0.1	0.4	0.7	0.4	0.6	0.2	-0.1	-0.1	0.5	0.2	0.1

Alternative 5 (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.1	3.2	6.5	6.3	7.7	6.9	4.7	2.3	2.1	2.5	2.2	2.8
20%	2.0	2.4	2.3	5.6	6.8	5.8	2.3	1.9	1.9	2.4	2.1	2.6
30%	1.9	1.9	2.2	3.8	4.2	4.2	2.0	1.8	1.9	2.3	2.1	2.1
40%	1.9	1.8	2.2	2.5	2.9	2.9	1.8	1.6	1.9	2.3	2.0	2.0
50%	1.8	1.7	2.0	2.4	2.4	2.8	1.8	1.6	1.8	2.2	2.0	2.0
60%	1.7	1.7	1.9	2.2	1.9	2.3	1.7	1.5	1.8	2.1	2.0	1.9
70%	1.7	1.7	1.7	2.0	1.8	2.0	1.6	1.5	1.7	2.1	1.9	1.9
80%	1.7	1.5	1.7	1.8	1.8	1.7	1.6	1.5	1.7	2.0	1.9	1.9
90%	1.7	1.5	1.5	1.6	1.5	1.6	1.5	1.3	1.6	1.8	1.8	1.8
Long Term												
Full Simulation Period[a]	1.9	2.1	2.9	3.3	3.7	3.6	2.5	1.8	1.9	2.2	2.0	2.1
Water Year Types[b]												
Wet (31%)	2.0	3.4	5.8	5.0	6.7	6.4	4.4	2.5	2.4	2.4	2.2	2.8
Above Normal (25%)	1.8	1.6	2.2	6.1	6.2	5.1	2.4	1.7	1.8	2.3	2.0	2.1
Below Normal (6%)	1.8	1.7	1.7	2.6	2.9	2.7	1.8	1.6	1.9	2.0	1.8	1.8
Dry (13%)	1.7	1.8	1.9	1.9	2.0	2.6	1.8	1.7	1.8	2.2	2.0	1.8
Critical (25%)	1.9	1.7	1.7	2.0	1.7	1.8	1.6	1.4	1.6	2.0	1.9	1.9

Alternative 5 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.0	0.1	0.3	0.4	0.3	0.1	0.4	0.4	1.5	1.6	1.6	1.9
20%	1.7	0.2	0.7	0.9	0.3	0.5	1.0	1.3	1.7	1.7	1.6	2.2
30%	1.7	1.3	1.1	0.6	0.7	0.3	0.9	1.2	1.7	1.7	1.6	1.8
40%	1.7	1.5	1.4	0.9	0.2	0.1	1.2	1.2	1.7	1.7	1.6	1.7
50%	1.7	1.6	1.3	0.9	0.8	0.5	1.3	1.2	1.7	1.6	1.6	1.7
60%	1.7	1.6	1.4	1.1	1.2	0.3	1.4	1.3	1.7	1.5	1.6	1.7
70%	1.7	1.6	1.4	1.4	1.2	0.9	1.3	1.4	1.7	1.6	1.5	1.7
80%	1.7	1.6	1.4	1.3	1.3	1.2	1.3	1.5	1.8	1.6	1.6	1.8
90%	1.7	1.7	1.6	1.4	1.3	1.4	1.4	1.4	1.7	1.4	1.7	1.7
Long Term												
Full Simulation Period[a]	1.6	1.2	1.2	0.9	0.8	0.6	1.1	1.1	1.5	1.5	1.6	1.7
Water Year Types[b]												
Wet (31%)	1.2	0.6	0.6	0.6	0.4	0.1	0.8	0.3	0.8	1.3	1.6	1.7
Above Normal (25%)	1.7	1.4	1.3	0.4	0.7	0.4	0.5	0.9	1.6	1.7	1.6	1.8
Below Normal (6%)	1.5	1.6	1.7	1.0	0.2	0.4	1.2	1.0	1.7	1.4	1.4	1.6
Dry (13%)	1.7	1.3	1.2	1.1	1.1	0.7	1.2	1.4	1.7	1.6	1.5	1.6
Critical (25%)	1.7	1.6	1.4	1.3	1.3	1.2	1.4	1.5	1.7	1.6	1.7	1.8

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-31-2-10. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.1	3.1	6.2	5.9	7.4	6.8	4.3	1.9	0.6	0.9	0.6	0.8
20%	0.3	2.3	1.6	4.7	6.6	5.3	1.3	0.6	0.2	0.7	0.5	0.4
30%	0.2	0.5	1.1	3.2	3.5	3.9	1.0	0.5	0.2	0.7	0.4	0.3
40%	0.1	0.3	0.7	1.6	2.7	2.8	0.6	0.5	0.2	0.6	0.4	0.3
50%	0.1	0.1	0.7	1.5	1.6	2.2	0.5	0.4	0.1	0.6	0.4	0.3
60%	0.1	0.1	0.5	1.0	0.6	2.0	0.4	0.2	0.1	0.6	0.4	0.2
70%	0.0	0.0	0.3	0.6	0.6	1.1	0.4	0.1	0.0	0.5	0.3	0.2
80%	0.0	-0.1	0.3	0.4	0.5	0.5	0.2	0.0	-0.1	0.4	0.2	0.1
90%	-0.1	-0.2	-0.1	0.2	0.2	0.2	0.1	-0.1	-0.1	0.4	0.2	0.1
Long Term												
Full Simulation Period[a]	0.3	0.9	1.7	2.3	2.8	3.0	1.4	0.8	0.4	0.7	0.4	0.4
Water Year Types[b]												
Wet (31%)	0.8	2.8	5.2	4.4	6.3	6.3	3.6	2.2	1.6	1.1	0.6	1.1
Above Normal (25%)	0.0	0.3	1.0	5.8	5.5	4.7	1.9	0.9	0.2	0.5	0.4	0.3
Below Normal (6%)	0.3	0.1	0.0	1.6	2.7	2.3	0.6	0.6	0.2	0.6	0.4	0.2
Dry (13%)	0.1	0.5	0.6	0.7	0.9	2.0	0.6	0.3	0.1	0.6	0.5	0.2
Critical (25%)	0.2	0.1	0.4	0.7	0.4	0.6	0.2	-0.1	-0.1	0.5	0.2	0.1

Alternative 6A,6B,6C (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	2.9	5.9	5.3	6.7	6.0	3.9	2.0	1.9	2.0	1.9	2.2
20%	1.7	2.3	2.2	4.8	6.0	5.0	2.3	1.8	1.8	1.7	1.8	2.1
30%	1.6	1.7	2.1	3.5	3.6	3.6	1.9	1.8	1.8	1.7	1.8	1.8
40%	1.6	1.6	1.9	2.3	2.6	2.6	1.9	1.7	1.8	1.6	1.7	1.7
50%	1.5	1.5	1.8	2.2	2.2	2.5	1.8	1.6	1.7	1.6	1.7	1.7
60%	1.5	1.5	1.8	1.9	2.1	2.3	1.7	1.5	1.7	1.6	1.6	1.7
70%	1.4	1.5	1.7	1.7	1.7	1.9	1.6	1.5	1.7	1.6	1.6	1.6
80%	1.4	1.4	1.5	1.6	1.7	1.6	1.6	1.5	1.6	1.5	1.6	1.5
90%	1.4	1.3	1.4	1.4	1.5	1.5	1.5	1.3	1.6	1.5	1.6	1.5
Long Term												
Full Simulation Period[a]	1.5	1.9	2.6	2.9	3.3	3.2	2.3	1.7	1.8	1.7	1.7	1.8
Water Year Types[b]												
Wet (31%)	1.6	2.9	5.3	4.4	6.0	5.7	3.9	2.2	2.0	1.9	1.8	2.2
Above Normal (25%)	1.5	1.4	2.0	5.3	5.3	4.4	2.1	1.8	1.7	1.6	1.7	1.6
Below Normal (6%)	1.6	1.5	1.5	2.4	2.6	2.4	1.9	1.6	1.8	1.5	1.5	1.5
Dry (13%)	1.5	1.6	1.8	1.7	1.8	2.4	1.8	1.7	1.8	1.6	1.6	1.6
Critical (25%)	1.6	1.6	1.7	1.7	1.7	1.7	1.5	1.4	1.6	1.6	1.8	1.7

Alternative 6A,6B,6C (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.6	**-0.2**	**-0.3**	**-0.5**	**-0.7**	**-0.8**	**-0.4**	0.0	1.3	1.1	1.2	1.4
20%	1.4	**0.0**	0.6	0.0	**-0.5**	**-0.3**	1.0	1.2	1.6	1.0	1.3	1.7
30%	1.4	1.2	1.0	0.3	0.1	**-0.3**	0.9	1.2	1.6	1.1	1.3	1.5
40%	1.4	1.3	1.2	0.7	**-0.1**	**-0.2**	1.2	1.3	1.6	1.0	1.3	1.4
50%	1.5	1.4	1.1	0.7	0.6	0.2	1.2	1.3	1.6	1.0	1.3	1.4
60%	1.4	1.4	1.3	0.9	1.5	0.3	1.3	1.3	1.6	1.0	1.2	1.5
70%	1.4	1.4	1.3	1.2	1.1	0.9	1.2	1.4	1.7	1.1	1.3	1.5
80%	1.4	1.5	1.2	1.2	1.1	1.1	1.4	1.5	1.7	1.1	1.3	1.4
90%	1.5	1.5	1.5	1.2	1.3	1.3	1.4	1.4	1.7	1.1	1.4	1.4
Long Term												
Full Simulation Period[a]	1.3	1.0	0.9	0.5	0.5	0.3	0.9	1.0	1.3	1.0	1.3	1.4
Water Year Types[b]												
Wet (31%)	0.9	0.1	0.1	**-0.1**	**-0.3**	**-0.6**	0.2	**0.0**	0.4	0.8	1.2	1.1
Above Normal (25%)	1.5	1.1	1.1	**-0.5**	**-0.2**	**-0.3**	0.2	0.9	1.5	1.1	1.2	1.3
Below Normal (6%)	1.3	1.4	1.5	0.8	**-0.1**	0.2	1.3	1.0	1.7	0.9	1.1	1.3
Dry (13%)	1.4	1.1	1.1	1.0	0.9	0.5	1.3	1.4	1.6	1.0	1.1	1.4
Critical (25%)	1.4	1.5	1.3	1.0	1.3	1.1	1.3	1.5	1.7	1.2	1.5	1.6

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-31-2-11. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.1	3.1	6.2	5.9	7.4	6.8	4.3	1.9	0.6	0.9	0.6	0.8
20%	0.3	2.3	1.6	4.7	6.6	5.3	1.3	0.6	0.2	0.7	0.5	0.4
30%	0.2	0.5	1.1	3.2	3.5	3.9	1.0	0.5	0.2	0.7	0.4	0.3
40%	0.1	0.3	0.7	1.6	2.7	2.8	0.6	0.5	0.2	0.6	0.4	0.3
50%	0.1	0.1	0.7	1.5	1.6	2.2	0.5	0.4	0.1	0.6	0.4	0.3
60%	0.1	0.1	0.5	1.0	0.6	2.0	0.4	0.2	0.1	0.6	0.4	0.2
70%	0.0	0.0	0.3	0.6	0.6	1.1	0.4	0.1	0.0	0.5	0.3	0.2
80%	0.0	-0.1	0.3	0.4	0.5	0.5	0.2	0.0	-0.1	0.4	0.2	0.1
90%	-0.1	-0.2	-0.1	0.2	0.2	0.2	0.1	-0.1	-0.1	0.4	0.2	0.1
Long Term												
Full Simulation Period[a]	0.3	0.9	1.7	2.3	2.8	3.0	1.4	0.8	0.4	0.7	0.4	0.4
Water Year Types[b]												
Wet (31%)	0.8	2.8	5.2	4.4	6.3	6.3	3.6	2.2	1.6	1.1	0.6	1.1
Above Normal (25%)	0.0	0.3	1.0	5.8	5.5	4.7	1.9	0.9	0.2	0.5	0.4	0.3
Below Normal (6%)	0.3	0.1	0.0	1.6	2.7	2.3	0.6	0.6	0.2	0.6	0.4	0.2
Dry (13%)	0.1	0.5	0.6	0.7	0.9	2.0	0.6	0.3	0.1	0.6	0.5	0.2
Critical (25%)	0.2	0.1	0.4	0.7	0.4	0.6	0.2	-0.1	-0.1	0.5	0.2	0.1

Alternative 7 (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.9	3.0	6.2	5.7	7.1	6.4	4.2	2.1	1.9	2.5	2.2	2.6
20%	1.7	2.3	2.2	5.2	6.2	5.2	2.3	1.8	1.8	2.4	2.1	2.5
30%	1.7	1.8	2.2	3.5	3.7	3.7	1.9	1.7	1.8	2.3	2.1	2.0
40%	1.6	1.6	2.0	2.3	2.6	2.6	1.8	1.7	1.8	2.2	2.1	1.9
50%	1.6	1.6	1.9	2.3	2.3	2.5	1.8	1.6	1.8	2.2	2.0	1.9
60%	1.6	1.6	1.8	2.0	2.2	2.3	1.7	1.5	1.8	2.1	2.0	1.9
70%	1.6	1.5	1.7	1.8	1.8	2.0	1.6	1.5	1.7	2.0	2.0	1.9
80%	1.5	1.5	1.5	1.6	1.7	1.7	1.6	1.4	1.7	1.9	1.9	1.9
90%	1.5	1.4	1.4	1.5	1.5	1.5	1.5	1.4	1.6	1.9	1.9	1.8
Long Term												
Full Simulation Period[a]	1.6	2.0	2.7	3.0	3.4	3.3	2.3	1.8	1.8	2.2	2.0	2.1
Water Year Types[b]												
Wet (31%)	1.8	3.1	5.6	4.5	6.2	5.8	4.1	2.3	2.1	2.4	2.2	2.6
Above Normal (25%)	1.6	1.5	2.1	5.7	5.6	4.5	2.2	1.7	1.7	2.2	1.9	1.9
Below Normal (6%)	1.6	1.6	1.5	2.5	2.7	2.6	1.9	1.6	1.8	2.0	2.0	1.9
Dry (13%)	1.6	1.7	1.8	1.8	1.9	2.5	1.8	1.7	1.8	2.3	2.1	1.8
Critical (25%)	1.7	1.6	1.7	1.8	1.7	1.7	1.5	1.4	1.7	1.9	2.0	1.9

Alternative 7 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.8	**-0.1**	0.0	**-0.2**	**-0.3**	**-0.4**	**-0.1**	0.2	1.3	1.5	1.6	1.7
20%	1.4	0.1	0.6	0.4	**-0.3**	**-0.1**	0.9	1.2	1.6	1.7	1.6	2.1
30%	1.5	1.3	1.1	0.3	0.2	**-0.2**	0.9	1.2	1.6	1.6	1.6	1.6
40%	1.5	1.3	1.2	0.7	**-0.1**	**-0.1**	1.2	1.2	1.6	1.6	1.6	1.6
50%	1.5	1.5	1.2	0.8	0.7	0.2	1.2	1.2	1.6	1.6	1.6	1.6
60%	1.6	1.5	1.4	1.0	1.6	0.3	1.3	1.3	1.7	1.5	1.6	1.7
70%	1.6	1.4	1.4	1.2	1.2	0.9	1.2	1.4	1.7	1.5	1.6	1.7
80%	1.5	1.5	1.3	1.2	1.2	1.2	1.4	1.4	1.8	1.5	1.7	1.7
90%	1.6	1.5	1.5	1.3	1.3	1.3	1.4	1.5	1.7	1.5	1.7	1.7
Long Term												
Full Simulation Period[a]	1.4	1.1	1.0	0.7	0.6	0.4	1.0	1.0	1.4	1.5	1.6	1.6
Water Year Types[b]												
Wet (31%)	1.0	0.3	0.3	0.1	**-0.1**	**-0.4**	0.4	0.1	0.5	1.3	1.6	1.5
Above Normal (25%)	1.6	1.3	1.1	**-0.1**	0.1	**-0.2**	0.3	0.9	1.4	1.7	1.5	1.6
Below Normal (6%)	1.3	1.5	1.5	0.9	**-0.1**	0.4	1.3	1.0	1.6	1.5	1.6	1.7
Dry (13%)	1.5	1.2	1.2	1.1	1.0	0.5	1.2	1.4	1.7	1.7	1.6	1.6
Critical (25%)	1.5	1.5	1.3	1.1	1.3	1.1	1.3	1.5	1.8	1.5	1.8	1.8

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-31-2-12. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.1	3.1	6.2	5.9	7.4	6.8	4.3	1.9	0.6	0.9	0.6	0.8
20%	0.3	2.3	1.6	4.7	6.6	5.3	1.3	0.6	0.2	0.7	0.5	0.4
30%	0.2	0.5	1.1	3.2	3.5	3.9	1.0	0.5	0.2	0.7	0.4	0.3
40%	0.1	0.3	0.7	1.6	2.7	2.8	0.6	0.5	0.2	0.6	0.4	0.3
50%	0.1	0.1	0.7	1.5	1.6	2.2	0.5	0.4	0.1	0.6	0.4	0.3
60%	0.1	0.1	0.5	1.0	0.6	2.0	0.4	0.2	0.1	0.6	0.4	0.2
70%	0.0	0.0	0.3	0.6	0.6	1.1	0.4	0.1	0.0	0.5	0.3	0.2
80%	0.0	-0.1	0.3	0.4	0.5	0.5	0.2	0.0	-0.1	0.4	0.2	0.1
90%	-0.1	-0.2	-0.1	0.2	0.2	0.2	0.1	-0.1	-0.1	0.4	0.2	0.1
Long Term												
Full Simulation Period[a]	0.3	0.9	1.7	2.3	2.8	3.0	1.4	0.8	0.4	0.7	0.4	0.4
Water Year Types[b]												
Wet (31%)	0.8	2.8	5.2	4.4	6.3	6.3	3.6	2.2	1.6	1.1	0.6	1.1
Above Normal (25%)	0.0	0.3	1.0	5.8	5.5	4.7	1.9	0.9	0.2	0.5	0.4	0.3
Below Normal (6%)	0.3	0.1	0.0	1.6	2.7	2.3	0.6	0.6	0.2	0.6	0.4	0.2
Dry (13%)	0.1	0.5	0.6	0.7	0.9	2.0	0.6	0.3	0.1	0.6	0.5	0.2
Critical (25%)	0.2	0.1	0.4	0.7	0.4	0.6	0.2	-0.1	-0.1	0.5	0.2	0.1

Alternative 8 (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.9	3.2	6.2	5.7	7.0	6.4	4.4	2.4	1.9	2.2	2.1	2.6
20%	1.8	2.4	2.2	5.1	6.2	5.2	2.6	1.9	1.8	2.0	2.1	2.5
30%	1.8	1.8	2.1	3.6	4.0	4.1	2.1	1.8	1.8	2.0	2.1	2.1
40%	1.7	1.7	2.0	2.6	2.7	2.8	2.0	1.7	1.8	2.0	2.0	1.9
50%	1.7	1.7	1.9	2.4	2.5	2.7	1.9	1.7	1.8	1.9	2.0	1.9
60%	1.7	1.6	1.8	2.1	2.3	2.4	1.8	1.7	1.8	1.9	2.0	1.9
70%	1.6	1.5	1.7	1.8	1.9	2.1	1.8	1.6	1.7	1.9	1.9	1.9
80%	1.6	1.5	1.5	1.6	1.8	1.9	1.7	1.5	1.7	1.9	1.9	1.8
90%	1.6	1.4	1.5	1.5	1.5	1.8	1.7	1.5	1.6	1.8	1.9	1.8
Long Term												
Full Simulation Period[a]	1.7	2.0	2.7	3.1	3.5	3.5	2.5	1.9	1.8	2.0	2.0	2.1
Water Year Types[b]												
Wet (31%)	1.8	3.2	5.6	4.7	6.1	5.8	4.2	2.5	2.2	2.2	2.1	2.6
Above Normal (25%)	1.6	1.5	2.1	5.8	5.7	4.6	2.4	1.8	1.7	1.9	2.0	2.0
Below Normal (6%)	1.7	1.6	1.5	2.7	3.2	2.7	2.0	1.8	1.8	1.8	1.9	1.8
Dry (13%)	1.6	1.7	1.8	1.9	2.1	2.8	2.1	1.7	1.8	1.9	2.0	1.8
Critical (25%)	1.7	1.7	1.7	1.8	1.8	1.9	1.6	1.5	1.7	1.9	2.0	1.9

Alternative 8 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.8	0.1	0.0	**-0.1**	**-0.3**	**-0.4**	0.1	0.4	1.3	1.3	1.5	1.7
20%	1.5	0.1	0.6	0.4	**-0.3**	**-0.1**	1.3	1.3	1.6	1.3	1.6	2.1
30%	1.5	1.3	1.0	0.4	0.6	0.1	1.0	1.2	1.6	1.3	1.6	1.7
40%	1.6	1.5	1.2	1.0	**-0.1**	0.0	1.4	1.2	1.6	1.3	1.6	1.6
50%	1.6	1.6	1.2	0.9	0.8	0.4	1.4	1.3	1.6	1.3	1.6	1.6
60%	1.6	1.5	1.4	1.1	1.6	0.4	1.4	1.4	1.7	1.3	1.6	1.7
70%	1.6	1.5	1.4	1.2	1.3	1.0	1.4	1.4	1.7	1.4	1.6	1.7
80%	1.6	1.5	1.3	1.2	1.2	1.4	1.5	1.5	1.8	1.5	1.6	1.7
90%	1.6	1.6	1.5	1.3	1.3	1.6	1.6	1.6	1.7	1.4	1.7	1.7
Long Term												
Full Simulation Period[a]	1.4	1.1	1.0	0.8	0.7	0.5	1.1	1.1	1.4	1.3	1.6	1.6
Water Year Types[b]												
Wet (31%)	1.0	0.4	0.3	0.2	**-0.2**	**-0.4**	0.5	0.3	0.6	1.1	1.5	1.5
Above Normal (25%)	1.6	1.2	1.1	0.1	0.1	**-0.1**	0.5	0.9	1.4	1.4	1.6	1.7
Below Normal (6%)	1.4	1.5	1.5	1.1	0.4	0.4	1.4	1.2	1.6	1.2	1.5	1.6
Dry (13%)	1.6	1.2	1.2	1.1	1.1	0.8	1.5	1.4	1.6	1.3	1.5	1.6
Critical (25%)	1.5	1.6	1.3	1.1	1.3	1.3	1.4	1.6	1.8	1.5	1.7	1.8

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-31-2-13. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.1	3.1	6.2	5.9	7.4	6.8	4.3	1.9	0.6	0.9	0.6	0.8
20%	0.3	2.3	1.6	4.7	6.6	5.3	1.3	0.6	0.2	0.7	0.5	0.4
30%	0.2	0.5	1.1	3.2	3.5	3.9	1.0	0.5	0.2	0.7	0.4	0.3
40%	0.1	0.3	0.7	1.6	2.7	2.8	0.6	0.5	0.2	0.6	0.4	0.3
50%	0.1	0.1	0.7	1.5	1.6	2.2	0.5	0.4	0.1	0.6	0.4	0.3
60%	0.1	0.1	0.5	1.0	0.6	2.0	0.4	0.2	0.1	0.6	0.4	0.2
70%	0.0	0.0	0.3	0.6	0.6	1.1	0.4	0.1	0.0	0.5	0.3	0.2
80%	0.0	-0.1	0.3	0.4	0.5	0.5	0.2	0.0	-0.1	0.4	0.2	0.1
90%	-0.1	-0.2	-0.1	0.2	0.2	0.2	0.1	-0.1	-0.1	0.4	0.2	0.1
Long Term												
Full Simulation Period[a]	0.3	0.9	1.7	2.3	2.8	3.0	1.4	0.8	0.4	0.7	0.4	0.4
Water Year Types[b]												
Wet (31%)	0.8	2.8	5.2	4.4	6.3	6.3	3.6	2.2	1.6	1.1	0.6	1.1
Above Normal (25%)	0.0	0.3	1.0	5.8	5.5	4.7	1.9	0.9	0.2	0.5	0.4	0.3
Below Normal (6%)	0.3	0.1	0.0	1.6	2.7	2.3	0.6	0.6	0.2	0.6	0.4	0.2
Dry (13%)	0.1	0.5	0.6	0.7	0.9	2.0	0.6	0.3	0.1	0.6	0.5	0.2
Critical (25%)	0.2	0.1	0.4	0.7	0.4	0.6	0.2	-0.1	-0.1	0.5	0.2	0.1

Alternative 9 (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.0	3.4	7.0	6.9	8.4	7.6	5.0	2.5	2.1	2.4	2.2	3.3
20%	1.9	2.6	2.2	6.1	7.5	6.3	2.3	2.1	1.9	2.4	2.2	2.8
30%	1.9	2.1	2.2	4.0	4.5	4.5	2.1	1.9	1.9	2.3	2.1	2.3
40%	1.9	1.8	2.1	2.6	3.2	3.0	1.9	1.9	1.9	2.3	2.1	2.0
50%	1.8	1.8	2.0	2.5	2.4	2.9	1.8	1.8	1.8	2.2	2.1	1.9
60%	1.7	1.7	2.0	2.1	2.0	2.4	1.8	1.8	1.8	2.1	2.0	1.9
70%	1.7	1.6	1.9	1.9	1.9	2.0	1.8	1.7	1.8	2.1	2.0	1.9
80%	1.7	1.5	1.7	1.8	1.8	1.7	1.7	1.7	1.8	2.0	1.9	1.8
90%	1.6	1.5	1.6	1.7	1.7	1.7	1.6	1.5	1.7	1.9	1.8	1.8
Long Term												
Full Simulation Period[a]	1.8	2.2	3.0	3.5	4.0	3.9	2.6	2.0	1.9	2.2	2.1	2.2
Water Year Types[b]												
Wet (31%)	2.1	3.6	6.3	5.4	7.3	7.0	4.7	2.7	2.4	2.4	2.2	3.2
Above Normal (25%)	1.7	1.7	2.2	6.8	6.8	5.5	2.6	2.0	1.8	2.3	2.1	2.3
Below Normal (6%)	1.9	1.9	1.7	2.6	3.2	2.9	1.9	1.8	1.9	2.0	1.9	1.9
Dry (13%)	1.8	1.8	1.9	1.9	2.1	2.7	1.9	1.9	1.8	2.2	2.1	1.8
Critical (25%)	1.7	1.7	1.9	2.0	1.8	1.9	1.7	1.6	1.7	2.0	1.9	1.8

Alternative 9 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.0	0.3	0.8	1.1	1.0	0.8	0.7	0.6	1.5	1.5	1.6	2.4
20%	1.6	0.3	0.7	1.4	1.0	1.1	1.0	1.4	1.7	1.7	1.7	2.4
30%	1.7	1.6	1.1	0.8	1.0	0.6	1.1	1.4	1.7	1.7	1.7	1.9
40%	1.7	1.5	1.4	1.0	0.5	0.3	1.3	1.4	1.7	1.7	1.7	1.6
50%	1.7	1.7	1.3	1.0	0.8	0.7	1.3	1.5	1.7	1.6	1.6	1.6
60%	1.7	1.6	1.5	1.1	1.3	0.4	1.4	1.5	1.7	1.5	1.6	1.7
70%	1.7	1.6	1.6	1.3	1.3	1.0	1.4	1.5	1.8	1.6	1.7	1.7
80%	1.7	1.6	1.4	1.4	1.3	1.2	1.5	1.7	1.9	1.6	1.7	1.7
90%	1.7	1.6	1.7	1.4	1.5	1.5	1.5	1.7	1.8	1.5	1.7	1.7
Long Term												
Full Simulation Period[a]	1.5	1.3	1.3	1.1	1.2	0.9	1.2	1.3	1.5	1.5	1.6	1.8
Water Year Types[b]												
Wet (31%)	1.3	0.7	1.1	1.0	1.0	0.7	1.1	0.5	0.8	1.3	1.6	2.1
Above Normal (25%)	1.6	1.4	1.2	1.0	1.3	0.8	0.7	1.1	1.6	1.8	1.7	1.9
Below Normal (6%)	1.6	1.8	1.7	1.0	0.5	0.6	1.3	1.2	1.7	1.4	1.5	1.7
Dry (13%)	1.7	1.3	1.3	1.2	1.1	0.8	1.3	1.6	1.7	1.6	1.6	1.6
Critical (25%)	1.6	1.6	1.5	1.3	1.4	1.3	1.5	1.7	1.9	1.6	1.7	1.7

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-31-2-14. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	3.1	6.8	6.9	8.1	7.3	5.0	2.3	1.6	2.3	1.7	2.9
20%	1.5	2.4	2.2	6.1	7.4	6.4	2.3	1.7	1.4	2.2	1.7	2.3
30%	1.4	1.8	2.1	4.2	4.7	4.8	2.0	1.6	1.3	2.1	1.6	1.8
40%	1.4	1.5	1.9	2.7	3.2	3.4	1.7	1.5	1.3	1.9	1.6	1.5
50%	1.4	1.4	1.7	2.5	2.5	3.0	1.6	1.4	1.3	1.9	1.5	1.4
60%	1.3	1.3	1.6	2.1	1.7	2.5	1.5	1.3	1.2	1.8	1.5	1.4
70%	1.3	1.2	1.4	1.9	1.6	2.0	1.5	1.3	1.2	1.7	1.4	1.4
80%	1.3	1.1	1.3	1.6	1.6	1.5	1.4	1.2	1.1	1.5	1.4	1.3
90%	1.1	1.0	1.1	1.3	1.3	1.4	1.2	1.0	1.1	1.4	1.3	1.3
Long Term												
Full Simulation Period[a]	1.4	1.9	2.7	3.4	3.8	3.8	2.4	1.6	1.4	1.8	1.5	1.8
Water Year Types[b]												
Wet (31%)	1.7	3.3	6.0	5.5	7.1	6.8	4.5	2.4	1.9	2.1	1.7	2.8
Above Normal (25%)	1.3	1.3	2.1	6.6	6.7	5.6	2.6	1.7	1.3	2.1	1.7	1.8
Below Normal (6%)	1.5	1.5	1.4	2.7	3.2	2.9	1.7	1.4	1.4	1.5	1.5	1.4
Dry (13%)	1.3	1.6	1.6	1.8	2.0	2.7	1.6	1.5	1.3	1.9	1.6	1.3
Critical (25%)	1.3	1.3	1.4	1.9	1.5	1.7	1.3	1.1	1.1	1.6	1.4	1.3

Alternative 1A,1B,1C (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.4	2.6	5.7	5.6	6.9	6.2	4.0	2.0	2.1	2.4	2.1	2.1
20%	2.1	2.2	2.1	4.8	6.0	5.0	2.2	1.8	2.0	2.4	2.1	2.0
30%	2.0	2.0	2.1	3.6	3.6	3.9	2.1	1.8	1.9	2.4	2.1	2.0
40%	1.9	1.7	2.0	2.4	2.5	2.6	1.9	1.7	1.8	2.3	1.9	1.9
50%	1.8	1.6	2.0	2.2	2.2	2.4	1.8	1.7	1.8	2.1	1.9	1.9
60%	1.8	1.5	1.8	2.0	1.8	2.3	1.8	1.6	1.7	2.0	1.9	1.8
70%	1.7	1.5	1.7	1.7	1.7	2.0	1.7	1.6	1.7	1.9	1.8	1.8
80%	1.7	1.4	1.6	1.6	1.7	1.7	1.6	1.5	1.7	1.9	1.8	1.7
90%	1.6	1.4	1.5	1.6	1.6	1.6	1.5	1.3	1.6	1.8	1.7	1.6
Long Term												
Full Simulation Period[a]	1.9	1.9	2.7	3.0	3.3	3.3	2.4	1.8	1.8	2.1	1.9	1.9
Water Year Types[b]												
Wet (31%)	1.8	3.1	5.3	4.5	6.0	5.8	4.0	2.2	2.1	2.3	1.9	2.0
Above Normal (25%)	2.0	1.4	2.1	5.3	5.6	4.6	2.2	1.7	1.7	2.1	1.8	1.6
Below Normal (6%)	2.6	1.5	1.6	2.4	2.5	2.4	1.9	1.6	1.8	1.8	1.6	1.7
Dry (13%)	1.7	1.6	1.8	2.0	1.8	2.5	1.9	1.8	1.8	2.3	2.1	1.9
Critical (25%)	2.1	1.6	1.7	1.7	1.7	1.7	1.6	1.4	1.6	2.0	1.9	1.9

Alternative 1A,1B,1C (LLT) minus No Action Alternative (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.8	**-0.6**	**-1.1**	**-1.3**	**-1.2**	**-1.2**	**-1.0**	**-0.3**	0.5	0.2	0.4	**-0.9**
20%	0.6	**-0.1**	**-0.1**	**-1.3**	**-1.3**	**-1.3**	**-0.1**	0.1	0.6	0.1	0.4	**-0.3**
30%	0.6	0.2	**0.0**	**-0.5**	**-1.1**	**-0.9**	0.1	0.2	0.5	0.3	0.4	0.2
40%	0.5	0.2	0.1	**-0.2**	**-0.7**	**-0.8**	0.2	0.2	0.5	0.4	0.3	0.4
50%	0.5	0.2	0.3	**-0.3**	**-0.3**	**-0.6**	0.3	0.3	0.5	0.3	0.4	0.4
60%	0.4	0.2	0.2	**-0.1**	0.0	**-0.2**	0.3	0.3	0.5	0.2	0.3	0.4
70%	0.4	0.3	0.4	**-0.1**	0.1	0.0	0.3	0.3	0.5	0.3	0.4	0.4
80%	0.5	0.3	0.3	0.0	0.1	0.2	0.3	0.3	0.6	0.3	0.4	0.4
90%	0.5	0.3	0.4	0.2	0.3	0.2	0.3	0.3	0.5	0.4	0.4	0.4
Long Term												
Full Simulation Period[a]	0.5	0.1	**0.0**	**-0.4**	**-0.4**	**-0.5**	**0.0**	0.1	0.5	0.3	0.4	0.1
Water Year Types[b]												
Wet (31%)	0.2	**-0.2**	**-0.8**	**-1.0**	**-1.1**	**-1.0**	**-0.5**	**-0.2**	0.2	0.3	0.2	**-0.9**
Above Normal (25%)	0.7	0.2	0.1	**-1.3**	**-1.1**	**-1.1**	**-0.4**	0.1	0.4	0.0	0.1	**-0.2**
Below Normal (6%)	1.0	**-0.1**	0.3	**-0.2**	**-0.7**	**-0.5**	0.2	0.2	0.5	0.2	0.2	0.3
Dry (13%)	0.4	0.0	0.2	0.2	**-0.1**	**-0.3**	0.2	0.3	0.6	0.4	0.5	0.5
Critical (25%)	0.8	0.3	0.3	**-0.1**	0.2	0.1	0.3	0.3	0.6	0.4	0.6	0.6

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-31-2-15. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	3.1	6.8	6.9	8.1	7.3	5.0	2.3	1.6	2.3	1.7	2.9
20%	1.5	2.4	2.2	6.1	7.4	6.4	2.3	1.7	1.4	2.2	1.7	2.3
30%	1.4	1.8	2.1	4.2	4.7	4.8	2.0	1.6	1.3	2.1	1.6	1.8
40%	1.4	1.5	1.9	2.7	3.2	3.4	1.7	1.5	1.3	1.9	1.6	1.5
50%	1.4	1.4	1.7	2.5	2.5	3.0	1.6	1.4	1.3	1.9	1.5	1.4
60%	1.3	1.3	1.6	2.1	1.7	2.5	1.5	1.3	1.2	1.8	1.5	1.4
70%	1.3	1.2	1.4	1.9	1.6	2.0	1.5	1.3	1.2	1.7	1.4	1.4
80%	1.3	1.1	1.3	1.6	1.6	1.5	1.4	1.2	1.1	1.5	1.4	1.3
90%	1.1	1.0	1.1	1.3	1.3	1.4	1.2	1.0	1.1	1.4	1.3	1.3
Long Term												
Full Simulation Period[a]	1.4	1.9	2.7	3.4	3.8	3.8	2.4	1.6	1.4	1.8	1.5	1.8
Water Year Types[b]												
Wet (31%)	1.7	3.3	6.0	5.5	7.1	6.8	4.5	2.4	1.9	2.1	1.7	2.8
Above Normal (25%)	1.3	1.3	2.1	6.6	6.7	5.6	2.6	1.7	1.3	2.1	1.7	1.8
Below Normal (6%)	1.5	1.5	1.4	2.7	3.2	2.9	1.7	1.4	1.4	1.5	1.5	1.4
Dry (13%)	1.3	1.6	1.6	1.8	2.0	2.7	1.6	1.5	1.3	1.9	1.6	1.3
Critical (25%)	1.3	1.3	1.4	1.9	1.5	1.7	1.3	1.1	1.1	1.6	1.4	1.3

Alternative 2A,2B,2C (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.0	2.4	5.5	5.4	6.7	6.0	3.9	2.0	2.0	2.5	2.1	2.5
20%	1.9	2.2	2.1	4.7	5.9	4.9	2.2	1.9	1.9	2.4	2.1	2.2
30%	1.8	1.8	2.0	3.4	3.4	3.5	1.9	1.8	1.8	2.4	2.1	2.0
40%	1.8	1.8	2.0	2.2	2.4	2.5	1.8	1.7	1.8	2.3	2.0	2.0
50%	1.7	1.7	1.9	2.1	2.1	2.4	1.8	1.6	1.7	2.2	2.0	1.9
60%	1.7	1.5	1.8	2.1	1.7	2.2	1.7	1.6	1.7	2.1	1.9	1.9
70%	1.6	1.5	1.8	1.8	1.7	1.9	1.6	1.5	1.7	2.0	1.8	1.9
80%	1.6	1.5	1.6	1.6	1.6	1.6	1.6	1.5	1.6	1.9	1.8	1.9
90%	1.5	1.4	1.5	1.6	1.4	1.6	1.5	1.3	1.6	1.7	1.8	1.8
Long Term												
Full Simulation Period[a]	1.7	1.9	2.6	2.9	3.2	3.2	2.3	1.7	1.8	2.2	1.9	2.0
Water Year Types[b]												
Wet (31%)	1.8	2.7	5.1	4.4	5.9	5.6	3.9	2.2	2.0	2.4	1.9	2.5
Above Normal (25%)	1.9	1.4	2.1	5.1	5.3	4.5	2.0	1.8	1.6	2.4	1.9	1.8
Below Normal (6%)	1.7	1.5	1.6	2.4	2.4	2.3	1.9	1.6	1.7	1.7	1.7	1.8
Dry (13%)	1.6	1.7	1.8	1.7	1.8	2.2	1.8	1.8	1.8	2.3	2.0	1.9
Critical (25%)	1.8	1.7	1.7	1.9	1.6	1.7	1.6	1.4	1.6	2.0	1.9	1.9

Alternative 2A,2B,2C (LLT) minus No Action Alternative (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.3	**-0.8**	**-1.4**	**-1.5**	**-1.4**	**-1.4**	**-1.1**	**-0.3**	0.4	0.2	0.3	**-0.4**
20%	0.3	**-0.2**	**-0.1**	**-1.4**	**-1.5**	**-1.4**	**-0.1**	0.2	0.5	0.2	0.4	**-0.1**
30%	0.4	0.0	**-0.1**	**-0.8**	**-1.2**	**-1.3**	**-0.1**	0.2	0.5	0.3	0.4	0.2
40%	0.4	0.2	0.1	**-0.5**	**-0.8**	**-0.9**	0.1	0.2	0.5	0.4	0.4	0.5
50%	0.3	0.3	0.2	**-0.3**	**-0.4**	**-0.7**	0.2	0.3	0.5	0.4	0.4	0.5
60%	0.3	0.3	0.2	0.0	**-0.1**	**-0.2**	0.2	0.3	0.5	0.3	0.3	0.5
70%	0.3	0.3	0.4	**0.0**	0.1	**-0.1**	0.2	0.3	0.5	0.3	0.4	0.5
80%	0.3	0.4	0.3	0.1	0.1	0.1	0.2	0.3	0.5	0.4	0.4	0.6
90%	0.4	0.3	0.4	0.2	0.1	0.2	0.3	0.3	0.5	0.4	0.5	0.5
Long Term												
Full Simulation Period[a]	0.3	0.0	**-0.1**	**-0.5**	**-0.5**	**-0.6**	**-0.1**	0.1	0.4	0.3	0.4	0.3
Water Year Types[b]												
Wet (31%)	0.1	**-0.6**	**-1.0**	**-1.1**	**-1.3**	**-1.2**	**-0.6**	**-0.3**	0.1	0.3	0.2	**-0.4**
Above Normal (25%)	0.6	0.1	0.0	**-1.5**	**-1.4**	**-1.2**	**-0.6**	0.1	0.3	0.3	0.3	0.0
Below Normal (6%)	0.1	**0.0**	0.2	**-0.3**	**-0.8**	**-0.6**	0.2	0.2	0.3	0.2	0.2	0.4
Dry (13%)	0.2	0.1	0.2	**-0.1**	**-0.2**	**-0.5**	0.2	0.3	0.5	0.3	0.5	0.6
Critical (25%)	0.5	0.4	0.3	0.0	0.1	0.0	0.2	0.3	0.6	0.4	0.6	0.6

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-31-2-16. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	3.1	6.8	6.9	8.1	7.3	5.0	2.3	1.6	2.3	1.7	2.9
20%	1.5	2.4	2.2	6.1	7.4	6.4	2.3	1.7	1.4	2.2	1.7	2.3
30%	1.4	1.8	2.1	4.2	4.7	4.8	2.0	1.6	1.3	2.1	1.6	1.8
40%	1.4	1.5	1.9	2.7	3.2	3.4	1.7	1.5	1.3	1.9	1.6	1.5
50%	1.4	1.4	1.7	2.5	2.5	3.0	1.6	1.4	1.3	1.9	1.5	1.4
60%	1.3	1.3	1.6	2.1	1.7	2.5	1.5	1.3	1.2	1.8	1.5	1.4
70%	1.3	1.2	1.4	1.9	1.6	2.0	1.5	1.3	1.2	1.7	1.4	1.4
80%	1.3	1.1	1.3	1.6	1.6	1.5	1.4	1.2	1.1	1.5	1.4	1.3
90%	1.1	1.0	1.1	1.3	1.3	1.4	1.2	1.0	1.1	1.4	1.3	1.3
Long Term												
Full Simulation Period[a]	1.4	1.9	2.7	3.4	3.8	3.8	2.4	1.6	1.4	1.8	1.5	1.8
Water Year Types[b]												
Wet (31%)	1.7	3.3	6.0	5.5	7.1	6.8	4.5	2.4	1.9	2.1	1.7	2.8
Above Normal (25%)	1.3	1.3	2.1	6.6	6.7	5.6	2.6	1.7	1.3	2.1	1.7	1.8
Below Normal (6%)	1.5	1.5	1.4	2.7	3.2	2.9	1.7	1.4	1.4	1.5	1.5	1.4
Dry (13%)	1.3	1.6	1.6	1.8	2.0	2.7	1.6	1.5	1.3	1.9	1.6	1.3
Critical (25%)	1.3	1.3	1.4	1.9	1.5	1.7	1.3	1.1	1.1	1.6	1.4	1.3

Alternative 3 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.4	3.1	6.4	6.1	7.4	6.7	4.4	2.3	2.2	2.4	2.1	2.1
20%	2.2	2.4	2.3	5.4	6.6	5.5	2.2	1.9	1.9	2.4	2.1	2.0
30%	2.1	1.7	2.2	3.7	3.9	4.1	2.0	1.8	1.8	2.3	2.0	2.0
40%	2.0	1.7	2.0	2.6	2.8	2.7	1.8	1.7	1.8	2.3	2.0	1.9
50%	1.9	1.6	2.0	2.3	2.3	2.6	1.8	1.6	1.7	2.1	1.9	1.9
60%	1.8	1.6	1.9	2.1	1.9	2.3	1.7	1.6	1.7	2.0	1.9	1.8
70%	1.7	1.6	1.7	1.8	1.8	2.1	1.7	1.5	1.7	2.0	1.9	1.8
80%	1.7	1.5	1.7	1.7	1.8	1.7	1.6	1.5	1.7	1.8	1.9	1.8
90%	1.6	1.5	1.5	1.6	1.5	1.6	1.5	1.3	1.6	1.7	1.8	1.8
Long Term												
Full Simulation Period[a]	2.0	2.1	2.8	3.2	3.5	3.5	2.4	1.8	1.9	2.1	1.9	2.0
Water Year Types[b]												
Wet (31%)	1.9	3.3	5.7	4.8	6.4	6.1	4.3	2.4	2.3	2.3	2.0	2.2
Above Normal (25%)	2.1	1.6	2.1	5.9	6.0	4.8	2.4	1.7	1.8	2.1	1.9	1.8
Below Normal (6%)	2.2	1.6	1.7	2.6	2.8	2.5	1.8	1.6	1.8	1.7	1.7	1.7
Dry (13%)	1.7	1.7	1.9	1.9	2.0	2.6	1.8	1.8	1.8	2.3	2.0	1.9
Critical (25%)	2.2	1.6	1.7	1.9	1.7	1.8	1.6	1.4	1.6	2.0	1.9	1.9

Alternative 3 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.8	**-0.1**	**-0.5**	**-0.8**	**-0.7**	**-0.7**	**-0.7**	**0.0**	0.6	0.2	0.3	**-0.8**
20%	0.7	**0.0**	0.1	**-0.7**	**-0.8**	**-0.8**	**-0.1**	0.2	0.5	0.1	0.4	**-0.3**
30%	0.7	**0.0**	0.1	**-0.4**	**-0.7**	**-0.7**	0.1	0.2	0.5	0.2	0.4	0.2
40%	0.6	0.1	0.1	**-0.1**	**-0.4**	**-0.7**	0.1	0.2	0.5	0.4	0.4	0.5
50%	0.5	0.2	0.3	**-0.1**	**-0.2**	**-0.5**	0.2	0.3	0.5	0.2	0.4	0.5
60%	0.4	0.3	0.3	**0.0**	0.1	**-0.2**	0.2	0.3	0.5	0.1	0.4	0.4
70%	0.4	0.4	0.4	**-0.1**	0.2	0.1	0.2	0.3	0.5	0.3	0.4	0.5
80%	0.4	0.4	0.4	0.1	0.2	0.3	0.3	0.3	0.6	0.3	0.5	0.5
90%	0.5	0.4	0.4	0.3	0.2	0.2	0.3	0.3	0.5	0.4	0.5	0.5
Long Term												
Full Simulation Period[a]	0.6	0.2	0.1	**-0.2**	**-0.2**	**-0.3**	0.0	0.2	0.5	0.3	0.4	0.2
Water Year Types[b]												
Wet (31%)	0.2	0.0	**-0.3**	**-0.7**	**-0.7**	**-0.7**	**-0.3**	**-0.1**	0.4	0.2	0.2	**-0.6**
Above Normal (25%)	0.8	0.3	0.1	**-0.7**	**-0.7**	**-0.8**	**-0.2**	0.1	0.5	0.0	0.2	0.0
Below Normal (6%)	0.7	0.1	0.3	**-0.1**	**-0.4**	**-0.4**	0.1	0.2	0.4	0.2	0.2	0.3
Dry (13%)	0.4	0.1	0.3	0.2	0.0	**-0.1**	0.2	0.3	0.5	0.4	0.5	0.5
Critical (25%)	0.9	0.3	0.3	0.0	0.2	0.1	0.2	0.3	0.6	0.4	0.6	0.6

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-31-2-17. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	3.1	6.8	6.9	8.1	7.3	5.0	2.3	1.6	2.3	1.7	2.9
20%	1.5	2.4	2.2	6.1	7.4	6.4	2.3	1.7	1.4	2.2	1.7	2.3
30%	1.4	1.8	2.1	4.2	4.7	4.8	2.0	1.6	1.3	2.1	1.6	1.8
40%	1.4	1.5	1.9	2.7	3.2	3.4	1.7	1.5	1.3	1.9	1.6	1.5
50%	1.4	1.4	1.7	2.5	2.5	3.0	1.6	1.4	1.3	1.9	1.5	1.4
60%	1.3	1.3	1.6	2.1	1.7	2.5	1.5	1.3	1.2	1.8	1.5	1.4
70%	1.3	1.2	1.4	1.9	1.6	2.0	1.5	1.3	1.2	1.7	1.4	1.4
80%	1.3	1.1	1.3	1.6	1.6	1.5	1.4	1.2	1.1	1.5	1.4	1.3
90%	1.1	1.0	1.1	1.3	1.3	1.4	1.2	1.0	1.1	1.4	1.3	1.3
Long Term												
Full Simulation Period[a]	1.4	1.9	2.7	3.4	3.8	3.8	2.4	1.6	1.4	1.8	1.5	1.8
Water Year Types[b]												
Wet (31%)	1.7	3.3	6.0	5.5	7.1	6.8	4.5	2.4	1.9	2.1	1.7	2.8
Above Normal (25%)	1.3	1.3	2.1	6.6	6.7	5.6	2.6	1.7	1.3	2.1	1.7	1.8
Below Normal (6%)	1.5	1.5	1.4	2.7	3.2	2.9	1.7	1.4	1.4	1.5	1.5	1.4
Dry (13%)	1.3	1.6	1.6	1.8	2.0	2.7	1.6	1.5	1.3	1.9	1.6	1.3
Critical (25%)	1.3	1.3	1.4	1.9	1.5	1.7	1.3	1.1	1.1	1.6	1.4	1.3

Alternative 4 H1 (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.0	3.0	6.1	5.8	7.3	6.4	4.1	2.1	2.0	2.6	2.1	2.1
20%	2.0	2.3	2.3	5.1	6.3	5.3	2.3	1.9	1.9	2.5	2.1	2.0
30%	2.0	1.7	2.1	3.5	3.7	4.0	1.9	1.8	1.8	2.3	2.0	2.0
40%	1.8	1.6	2.1	2.4	2.6	2.6	1.8	1.7	1.8	2.3	2.0	1.9
50%	1.7	1.6	1.9	2.3	2.3	2.4	1.8	1.6	1.7	2.2	2.0	1.9
60%	1.6	1.5	1.8	2.3	1.8	2.3	1.7	1.6	1.7	2.0	1.9	1.9
70%	1.6	1.5	1.8	2.0	1.7	1.9	1.6	1.5	1.7	2.0	1.9	1.9
80%	1.6	1.5	1.6	1.9	1.7	1.6	1.6	1.5	1.7	1.9	1.8	1.7
90%	1.6	1.4	1.5	1.6	1.5	1.6	1.5	1.3	1.6	1.7	1.8	1.7
Long Term												
Full Simulation Period[a]	1.8	2.0	2.8	3.1	3.4	3.4	2.3	1.8	1.8	2.2	1.9	1.9
Water Year Types[b]												
Wet (31%)	1.8	3.1	5.5	4.6	6.2	5.9	4.1	2.3	2.1	2.4	1.9	2.1
Above Normal (25%)	1.9	1.5	2.1	5.7	5.8	4.7	2.1	1.7	1.7	2.4	1.9	1.7
Below Normal (6%)	2.0	1.6	1.6	2.5	2.7	2.5	1.8	1.6	1.7	1.6	1.6	1.6
Dry (13%)	1.6	1.6	1.9	1.8	1.9	2.5	1.8	1.8	1.8	2.3	2.1	2.0
Critical (25%)	1.8	1.6	1.8	2.0	1.6	1.7	1.6	1.4	1.6	1.9	1.9	1.9

Alternative 4 H1 (LLT) minus No Action Alternative (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.3	**-0.2**	**-0.8**	**-1.1**	**-0.8**	**-1.0**	**-0.9**	**-0.2**	0.4	0.3	0.4	**-0.8**
20%	0.5	**-0.1**	0.1	**-1.0**	**-1.1**	**-1.1**	**-0.1**	0.2	0.5	0.3	0.4	**-0.3**
30%	0.5	**0.0**	0.0	**-0.6**	**-1.0**	**-0.8**	**-0.1**	0.2	0.5	0.2	0.4	0.2
40%	0.4	0.1	0.2	**-0.2**	**-0.6**	**-0.8**	0.1	0.2	0.5	0.4	0.4	0.5
50%	0.4	0.2	0.2	**-0.2**	**-0.2**	**-0.6**	0.2	0.2	0.4	0.4	0.5	0.5
60%	0.3	0.2	0.3	0.2	0.0	**-0.2**	0.2	0.3	0.5	0.2	0.4	0.5
70%	0.3	0.3	0.4	0.2	0.1	**0.0**	0.2	0.3	0.5	0.3	0.4	0.5
80%	0.3	0.3	0.3	0.3	0.1	0.2	0.2	0.3	0.6	0.4	0.4	0.4
90%	0.4	0.4	0.4	0.2	0.2	0.2	0.3	0.3	0.5	0.4	0.4	0.4
Long Term												
Full Simulation Period[a]	0.4	0.1	0.1	**-0.3**	**-0.3**	**-0.4**	**-0.1**	0.1	0.4	0.3	0.4	0.2
Water Year Types[b]												
Wet (31%)	0.1	**-0.1**	**-0.6**	**-0.8**	**-0.9**	**-0.9**	**-0.5**	**-0.2**	0.2	0.4	0.2	**-0.7**
Above Normal (25%)	0.6	0.2	0.1	**-0.9**	**-0.9**	**-1.0**	**-0.5**	0.1	0.4	0.3	0.3	**-0.1**
Below Normal (6%)	0.5	0.0	0.2	**-0.1**	**-0.5**	**-0.5**	0.2	0.2	0.3	0.1	0.2	0.2
Dry (13%)	0.3	0.1	0.3	0.1	**-0.1**	**-0.2**	0.2	0.3	0.5	0.4	0.5	0.6
Critical (25%)	0.5	0.3	0.4	0.2	0.2	0.1	0.2	0.3	0.6	0.4	0.6	0.6

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-31-2-18. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	3.1	6.8	6.9	8.1	7.3	5.0	2.3	1.6	2.3	1.7	2.9
20%	1.5	2.4	2.2	6.1	7.4	6.4	2.3	1.7	1.4	2.2	1.7	2.3
30%	1.4	1.8	2.1	4.2	4.7	4.8	2.0	1.6	1.3	2.1	1.6	1.8
40%	1.4	1.5	1.9	2.7	3.2	3.4	1.7	1.5	1.3	1.9	1.6	1.5
50%	1.4	1.4	1.7	2.5	2.5	3.0	1.6	1.4	1.3	1.9	1.5	1.4
60%	1.3	1.3	1.6	2.1	1.7	2.5	1.5	1.3	1.2	1.8	1.5	1.4
70%	1.3	1.2	1.4	1.9	1.6	2.0	1.5	1.3	1.2	1.7	1.4	1.4
80%	1.3	1.1	1.3	1.6	1.6	1.5	1.4	1.2	1.1	1.5	1.4	1.3
90%	1.1	1.0	1.1	1.3	1.3	1.4	1.2	1.0	1.1	1.4	1.3	1.3
Long Term												
Full Simulation Period[a]	1.4	1.9	2.7	3.4	3.8	3.8	2.4	1.6	1.4	1.8	1.5	1.8
Water Year Types[b]												
Wet (31%)	1.7	3.3	6.0	5.5	7.1	6.8	4.5	2.4	1.9	2.1	1.7	2.8
Above Normal (25%)	1.3	1.3	2.1	6.6	6.7	5.6	2.6	1.7	1.3	2.1	1.7	1.8
Below Normal (6%)	1.5	1.5	1.4	2.7	3.2	2.9	1.7	1.4	1.4	1.5	1.5	1.4
Dry (13%)	1.3	1.6	1.6	1.8	2.0	2.7	1.6	1.5	1.3	1.9	1.6	1.3
Critical (25%)	1.3	1.3	1.4	1.9	1.5	1.7	1.3	1.1	1.1	1.6	1.4	1.3

Alternative 4 H2 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.1	3.0	6.2	5.8	7.3	6.4	4.4	2.2	2.0	2.4	2.1	2.1
20%	2.0	2.4	2.3	5.1	6.3	5.3	2.6	2.0	1.9	2.3	2.1	2.0
30%	2.0	1.7	2.1	3.5	3.8	4.2	2.4	1.9	1.8	2.2	2.0	2.0
40%	1.8	1.6	2.1	2.3	2.6	2.6	2.0	1.9	1.8	2.1	2.0	2.0
50%	1.7	1.6	1.8	2.2	2.3	2.5	1.8	1.7	1.7	2.0	1.9	1.9
60%	1.7	1.5	1.8	2.2	1.7	2.3	1.8	1.6	1.7	2.0	1.9	1.8
70%	1.6	1.5	1.7	2.0	1.7	1.9	1.7	1.6	1.7	1.9	1.9	1.8
80%	1.6	1.5	1.5	1.8	1.7	1.6	1.6	1.5	1.7	1.8	1.8	1.7
90%	1.6	1.4	1.5	1.6	1.4	1.6	1.5	1.3	1.6	1.7	1.7	1.7
Long Term												
Full Simulation Period[a]	1.8	2.0	2.7	3.1	3.4	3.4	2.5	1.8	1.8	2.0	1.9	1.9
Water Year Types[b]												
Wet (31%)	1.8	3.1	5.5	4.6	6.2	5.9	4.4	2.4	2.1	2.2	1.9	2.1
Above Normal (25%)	1.9	1.5	2.1	5.8	5.8	4.7	2.8	2.0	1.7	1.9	1.9	1.7
Below Normal (6%)	1.6	1.6	1.5	2.5	2.8	2.6	1.8	1.6	1.7	1.6	1.6	1.6
Dry (13%)	1.7	1.6	1.8	1.8	1.9	2.5	1.8	1.8	1.8	2.1	2.0	1.9
Critical (25%)	1.9	1.6	1.7	2.0	1.6	1.8	1.5	1.4	1.6	2.0	1.9	2.0

Alternative 4 H2 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.4	**-0.1**	**-0.7**	**-1.1**	**-0.8**	**-1.0**	**-0.7**	**-0.1**	0.4	0.1	0.3	**-0.9**
20%	0.5	**0.0**	0.1	**-1.0**	**-1.1**	**-1.1**	0.3	0.3	0.5	0.1	0.4	**-0.3**
30%	0.6	**0.0**	0.0	**-0.6**	**-0.9**	**-0.6**	0.4	0.3	0.5	0.1	0.4	0.2
40%	0.4	0.1	0.2	**-0.4**	**-0.6**	**-0.8**	0.3	0.4	0.5	0.2	0.4	0.5
50%	0.4	0.1	0.1	**-0.2**	**-0.2**	**-0.6**	0.2	0.3	0.5	0.2	0.4	0.5
60%	0.3	0.2	0.2	0.1	0.0	**-0.2**	0.3	0.3	0.5	0.2	0.4	0.4
70%	0.3	0.3	0.4	0.1	0.1	**0.0**	0.2	0.3	0.5	0.2	0.4	0.5
80%	0.3	0.3	0.2	0.3	0.1	0.2	0.2	0.3	0.6	0.2	0.4	0.4
90%	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.3	0.5	0.3	0.4	0.4
Long Term												
Full Simulation Period[a]	0.4	0.1	0.0	**-0.3**	**-0.3**	**-0.4**	0.1	0.2	0.4	0.2	0.4	0.1
Water Year Types[b]												
Wet (31%)	0.2	**-0.1**	**-0.5**	**-0.9**	**-0.9**	**-0.9**	**-0.2**	**-0.1**	0.2	0.1	0.2	**-0.7**
Above Normal (25%)	0.6	0.2	0.1	**-0.8**	**-0.8**	**-0.9**	0.2	0.3	0.3	**-0.1**	0.2	**-0.1**
Below Normal (6%)	0.0	0.0	0.1	**-0.2**	**-0.4**	**-0.4**	0.2	0.2	0.3	0.1	0.2	0.2
Dry (13%)	0.3	0.1	0.2	0.0	**-0.1**	**-0.2**	0.2	0.3	0.5	0.2	0.5	0.5
Critical (25%)	0.5	0.3	0.3	0.1	0.1	0.1	0.2	0.3	0.5	0.4	0.6	0.6

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-31-2-19. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	3.1	6.8	6.9	8.1	7.3	5.0	2.3	1.6	2.3	1.7	2.9
20%	1.5	2.4	2.2	6.1	7.4	6.4	2.3	1.7	1.4	2.2	1.7	2.3
30%	1.4	1.8	2.1	4.2	4.7	4.8	2.0	1.6	1.3	2.1	1.6	1.8
40%	1.4	1.5	1.9	2.7	3.2	3.4	1.7	1.5	1.3	1.9	1.6	1.5
50%	1.4	1.4	1.7	2.5	2.5	3.0	1.6	1.4	1.3	1.9	1.5	1.4
60%	1.3	1.3	1.6	2.1	1.7	2.5	1.5	1.3	1.2	1.8	1.5	1.4
70%	1.3	1.2	1.4	1.9	1.6	2.0	1.5	1.3	1.2	1.7	1.4	1.4
80%	1.3	1.1	1.3	1.6	1.6	1.5	1.4	1.2	1.1	1.5	1.4	1.3
90%	1.1	1.0	1.1	1.3	1.3	1.4	1.2	1.0	1.1	1.4	1.3	1.3
Long Term												
Full Simulation Period[a]	1.4	1.9	2.7	3.4	3.8	3.8	2.4	1.6	1.4	1.8	1.5	1.8
Water Year Types[b]												
Wet (31%)	1.7	3.3	6.0	5.5	7.1	6.8	4.5	2.4	1.9	2.1	1.7	2.8
Above Normal (25%)	1.3	1.3	2.1	6.6	6.7	5.6	2.6	1.7	1.3	2.1	1.7	1.8
Below Normal (6%)	1.5	1.5	1.4	2.7	3.2	2.9	1.7	1.4	1.4	1.5	1.5	1.4
Dry (13%)	1.3	1.6	1.6	1.8	2.0	2.7	1.6	1.5	1.3	1.9	1.6	1.3
Critical (25%)	1.3	1.3	1.4	1.9	1.5	1.7	1.3	1.1	1.1	1.6	1.4	1.3

Alternative 4 H3 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.0	3.0	6.0	5.8	7.1	6.4	4.1	2.1	2.0	2.6	2.1	2.5
20%	1.9	2.3	2.1	5.1	6.3	5.3	2.3	1.9	1.9	2.5	2.1	2.4
30%	1.8	1.8	2.1	3.6	3.7	3.8	1.9	1.8	1.8	2.3	2.1	2.0
40%	1.8	1.7	2.1	2.5	2.6	2.6	1.8	1.7	1.8	2.3	2.0	2.0
50%	1.7	1.7	2.0	2.3	2.3	2.4	1.7	1.6	1.7	2.2	2.0	2.0
60%	1.7	1.6	1.8	2.2	1.8	2.3	1.7	1.6	1.7	2.1	1.9	1.9
70%	1.6	1.5	1.8	1.9	1.7	1.9	1.6	1.5	1.7	2.0	1.9	1.9
80%	1.6	1.5	1.5	1.7	1.7	1.6	1.6	1.5	1.7	1.9	1.8	1.9
90%	1.6	1.4	1.5	1.5	1.5	1.6	1.5	1.3	1.6	1.7	1.8	1.9
Long Term												
Full Simulation Period[a]	1.8	2.0	2.7	3.1	3.4	3.3	2.3	1.8	1.8	2.2	1.9	2.1
Water Year Types[b]												
Wet (31%)	1.8	3.1	5.4	4.6	6.2	5.9	4.1	2.3	2.1	2.4	1.9	2.6
Above Normal (25%)	2.0	1.5	2.1	5.6	5.7	4.7	2.1	1.7	1.7	2.4	1.9	2.0
Below Normal (6%)	1.7	1.6	1.5	2.5	2.7	2.5	1.8	1.6	1.7	1.6	1.6	1.8
Dry (13%)	1.6	1.7	1.8	1.8	1.9	2.4	1.8	1.8	1.8	2.3	2.0	1.9
Critical (25%)	1.8	1.7	1.8	2.0	1.6	1.8	1.5	1.4	1.6	1.9	1.9	1.9

Alternative 4 H3 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.3	**-0.1**	**-0.9**	**-1.1**	**-1.0**	**-1.0**	**-0.9**	**-0.2**	0.4	0.3	0.3	**-0.4**
20%	0.4	**-0.1**	**-0.1**	**-1.0**	**-1.1**	**-1.1**	**-0.1**	0.2	0.5	0.3	0.4	0.2
30%	0.4	0.0	0.0	**-0.6**	**-1.0**	**-1.0**	**-0.1**	0.2	0.4	0.2	0.4	0.2
40%	0.4	0.2	0.2	**-0.2**	**-0.6**	**-0.8**	0.1	0.2	0.5	0.4	0.4	0.5
50%	0.3	0.3	0.2	**-0.2**	**-0.2**	**-0.6**	0.2	0.3	0.5	0.3	0.5	0.6
60%	0.3	0.3	0.2	0.2	0.0	**-0.2**	0.2	0.3	0.5	0.2	0.4	0.5
70%	0.3	0.3	0.4	0.0	0.1	**0.0**	0.2	0.3	0.5	0.3	0.4	0.6
80%	0.3	0.4	0.2	0.1	0.1	0.2	0.2	0.3	0.5	0.4	0.4	0.6
90%	0.5	0.4	0.4	0.2	0.2	0.2	0.3	0.3	0.5	0.4	0.4	0.6
Long Term												
Full Simulation Period[a]	0.3	0.1	0.0	**-0.3**	**-0.4**	**-0.5**	**-0.1**	0.1	0.4	0.3	0.4	0.3
Water Year Types[b]												
Wet (31%)	0.1	**-0.2**	**-0.6**	**-0.9**	**-0.9**	**-1.0**	**-0.5**	**-0.2**	0.2	0.3	0.2	**-0.2**
Above Normal (25%)	0.7	0.2	0.1	**-1.0**	**-1.0**	**-1.0**	**-0.5**	0.1	0.4	0.3	0.3	0.2
Below Normal (6%)	0.2	0.0	0.1	**-0.2**	**-0.5**	**-0.5**	0.2	0.2	0.3	0.1	0.2	0.4
Dry (13%)	0.3	0.1	0.2	0.0	**0.0**	**-0.4**	0.2	0.3	0.5	0.4	0.5	0.6
Critical (25%)	0.5	0.4	0.4	0.1	0.1	0.1	0.2	0.3	0.6	0.4	0.6	0.6

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-31-2-20. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	3.1	6.8	6.9	8.1	7.3	5.0	2.3	1.6	2.3	1.7	2.9
20%	1.5	2.4	2.2	6.1	7.4	6.4	2.3	1.7	1.4	2.2	1.7	2.3
30%	1.4	1.8	2.1	4.2	4.7	4.8	2.0	1.6	1.3	2.1	1.6	1.8
40%	1.4	1.5	1.9	2.7	3.2	3.4	1.7	1.5	1.3	1.9	1.6	1.5
50%	1.4	1.4	1.7	2.5	2.5	3.0	1.6	1.4	1.3	1.9	1.5	1.4
60%	1.3	1.3	1.6	2.1	1.7	2.5	1.5	1.3	1.2	1.8	1.5	1.4
70%	1.3	1.2	1.4	1.9	1.6	2.0	1.5	1.3	1.2	1.7	1.4	1.4
80%	1.3	1.1	1.3	1.6	1.6	1.5	1.4	1.2	1.1	1.5	1.4	1.3
90%	1.1	1.0	1.1	1.3	1.3	1.4	1.2	1.0	1.1	1.4	1.3	1.3
Long Term												
Full Simulation Period[a]	1.4	1.9	2.7	3.4	3.8	3.8	2.4	1.6	1.4	1.8	1.5	1.8
Water Year Types[b]												
Wet (31%)	1.7	3.3	6.0	5.5	7.1	6.8	4.5	2.4	1.9	2.1	1.7	2.8
Above Normal (25%)	1.3	1.3	2.1	6.6	6.7	5.6	2.6	1.7	1.3	2.1	1.7	1.8
Below Normal (6%)	1.5	1.5	1.4	2.7	3.2	2.9	1.7	1.4	1.4	1.5	1.5	1.4
Dry (13%)	1.3	1.6	1.6	1.8	2.0	2.7	1.6	1.5	1.3	1.9	1.6	1.3
Critical (25%)	1.3	1.3	1.4	1.9	1.5	1.7	1.3	1.1	1.1	1.6	1.4	1.3

Alternative 4 H4 (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.0	2.9	6.0	5.9	7.1	6.4	4.4	2.2	2.0	2.3	2.1	2.6
20%	2.0	2.3	2.2	5.1	6.3	5.3	2.6	1.9	1.9	2.3	2.1	2.5
30%	1.9	1.8	2.1	3.5	3.7	4.1	2.4	1.9	1.8	2.2	2.1	2.0
40%	1.8	1.8	2.1	2.3	2.6	2.6	2.1	1.9	1.8	2.1	2.0	2.0
50%	1.8	1.7	1.8	2.2	2.3	2.4	1.8	1.7	1.7	2.0	2.0	2.0
60%	1.7	1.6	1.8	2.0	1.8	2.3	1.8	1.6	1.7	2.0	1.9	2.0
70%	1.7	1.5	1.7	1.8	1.7	1.9	1.7	1.6	1.7	1.9	1.9	1.9
80%	1.6	1.5	1.6	1.7	1.7	1.6	1.6	1.5	1.7	1.8	1.8	1.9
90%	1.6	1.4	1.5	1.5	1.5	1.6	1.5	1.3	1.6	1.7	1.8	1.8
Long Term												
Full Simulation Period[a]	1.8	2.0	2.7	3.0	3.4	3.4	2.5	1.8	1.8	2.0	1.9	2.1
Water Year Types[b]												
Wet (31%)	1.9	3.1	5.5	4.6	6.2	5.9	4.4	2.4	2.1	2.2	2.0	2.6
Above Normal (25%)	1.9	1.5	2.1	5.8	5.7	4.7	2.8	2.0	1.7	1.9	1.9	2.0
Below Normal (6%)	1.8	1.6	1.6	2.5	2.7	2.5	1.8	1.6	1.7	1.6	1.8	1.7
Dry (13%)	1.6	1.7	1.8	1.8	1.9	2.5	1.8	1.7	1.8	2.1	2.0	1.9
Critical (25%)	1.8	1.7	1.7	1.8	1.6	1.7	1.6	1.4	1.6	2.0	1.9	2.0

Alternative 4 H4 (LLT) minus No Action Alternative (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.3	**-0.3**	**-0.8**	**-1.1**	**-1.0**	**-1.0**	**-0.7**	**-0.1**	0.4	0.1	0.3	**-0.4**
20%	0.4	**-0.1**	**-0.1**	**-1.0**	**-1.1**	**-1.1**	0.3	0.3	0.5	0.1	0.4	0.2
30%	0.5	0.0	0.0	**-0.6**	**-0.9**	**-0.7**	0.4	0.3	0.5	0.1	0.4	0.2
40%	0.4	0.2	0.2	**-0.4**	**-0.6**	**-0.8**	0.4	0.3	0.5	0.2	0.4	0.5
50%	0.4	0.3	0.1	**-0.3**	**-0.2**	**-0.6**	0.2	0.3	0.5	0.1	0.4	0.5
60%	0.4	0.3	0.2	**-0.1**	0.0	**-0.2**	0.3	0.3	0.5	0.1	0.4	0.5
70%	0.4	0.3	0.4	**-0.1**	0.1	**0.0**	0.2	0.3	0.5	0.2	0.4	0.6
80%	0.4	0.4	0.3	0.1	0.1	0.2	0.2	0.3	0.6	0.2	0.4	0.6
90%	0.4	0.4	0.4	0.2	0.2	0.2	0.3	0.3	0.5	0.3	0.5	0.6
Long Term												
Full Simulation Period[a]	0.4	0.1	0.0	**-0.4**	**-0.4**	**-0.4**	0.1	0.2	0.4	0.2	0.4	0.3
Water Year Types[b]												
Wet (31%)	0.2	**-0.2**	**-0.6**	**-0.9**	**-0.9**	**-0.9**	**-0.2**	**-0.1**	0.2	0.1	0.2	**-0.2**
Above Normal (25%)	0.7	0.2	0.1	**-0.9**	**-1.0**	**-0.9**	0.2	0.3	0.3	**-0.1**	0.2	0.2
Below Normal (6%)	0.3	0.1	0.2	**-0.1**	**-0.5**	**-0.5**	0.2	0.2	0.3	0.1	0.3	0.3
Dry (13%)	0.3	0.1	0.2	0.0	**-0.1**	**-0.2**	0.2	0.2	0.5	0.2	0.5	0.6
Critical (25%)	0.5	0.4	0.3	**-0.1**	0.1	0.1	0.2	0.3	0.5	0.4	0.6	0.6

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-31-2-21. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	3.1	6.8	6.9	8.1	7.3	5.0	2.3	1.6	2.3	1.7	2.9
20%	1.5	2.4	2.2	6.1	7.4	6.4	2.3	1.7	1.4	2.2	1.7	2.3
30%	1.4	1.8	2.1	4.2	4.7	4.8	2.0	1.6	1.3	2.1	1.6	1.8
40%	1.4	1.5	1.9	2.7	3.2	3.4	1.7	1.5	1.3	1.9	1.6	1.5
50%	1.4	1.4	1.7	2.5	2.5	3.0	1.6	1.4	1.3	1.9	1.5	1.4
60%	1.3	1.3	1.6	2.1	1.7	2.5	1.5	1.3	1.2	1.8	1.5	1.4
70%	1.3	1.2	1.4	1.9	1.6	2.0	1.5	1.3	1.2	1.7	1.4	1.4
80%	1.3	1.1	1.3	1.6	1.6	1.5	1.4	1.2	1.1	1.5	1.4	1.3
90%	1.1	1.0	1.1	1.3	1.3	1.4	1.2	1.0	1.1	1.4	1.3	1.3
Long Term												
Full Simulation Period[a]	1.4	1.9	2.7	3.4	3.8	3.8	2.4	1.6	1.4	1.8	1.5	1.8
Water Year Types[b]												
Wet (31%)	1.7	3.3	6.0	5.5	7.1	6.8	4.5	2.4	1.9	2.1	1.7	2.8
Above Normal (25%)	1.3	1.3	2.1	6.6	6.7	5.6	2.6	1.7	1.3	2.1	1.7	1.8
Below Normal (6%)	1.5	1.5	1.4	2.7	3.2	2.9	1.7	1.4	1.4	1.5	1.5	1.4
Dry (13%)	1.3	1.6	1.6	1.8	2.0	2.7	1.6	1.5	1.3	1.9	1.6	1.3
Critical (25%)	1.3	1.3	1.4	1.9	1.5	1.7	1.3	1.1	1.1	1.6	1.4	1.3

Alternative 5 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.1	3.2	6.5	6.3	7.7	6.9	4.7	2.3	2.1	2.5	2.2	2.8
20%	2.0	2.4	2.3	5.6	6.8	5.8	2.3	1.9	1.9	2.4	2.1	2.6
30%	1.9	1.9	2.2	3.8	4.2	4.2	2.0	1.8	1.9	2.3	2.1	2.1
40%	1.9	1.8	2.2	2.5	2.9	2.9	1.8	1.6	1.9	2.3	2.0	2.0
50%	1.8	1.7	2.0	2.4	2.4	2.8	1.8	1.6	1.8	2.2	2.0	2.0
60%	1.7	1.7	1.9	2.2	1.9	2.3	1.7	1.5	1.8	2.1	2.0	1.9
70%	1.7	1.7	1.7	2.0	1.8	2.0	1.6	1.5	1.7	2.1	1.9	1.9
80%	1.7	1.5	1.7	1.8	1.8	1.7	1.6	1.5	1.7	2.0	1.9	1.9
90%	1.7	1.5	1.5	1.6	1.5	1.6	1.5	1.3	1.6	1.8	1.8	1.8
Long Term												
Full Simulation Period[a]	1.9	2.1	2.9	3.3	3.7	3.6	2.5	1.8	1.9	2.2	2.0	2.1
Water Year Types[b]												
Wet (31%)	2.0	3.4	5.8	5.0	6.7	6.4	4.4	2.5	2.4	2.4	2.2	2.8
Above Normal (25%)	1.8	1.6	2.2	6.1	6.2	5.1	2.4	1.7	1.8	2.3	2.0	2.1
Below Normal (6%)	1.8	1.7	1.7	2.6	2.9	2.7	1.8	1.6	1.9	2.0	1.8	1.8
Dry (13%)	1.7	1.8	1.9	1.9	2.0	2.6	1.8	1.7	1.8	2.2	2.0	1.8
Critical (25%)	1.9	1.7	1.7	2.0	1.7	1.8	1.6	1.4	1.6	2.0	1.9	1.9

Alternative 5 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.4	0.1	**-0.4**	**-0.6**	**-0.4**	**-0.4**	**-0.4**	0.0	0.6	0.3	0.5	**-0.2**
20%	0.5	0.0	0.0	**-0.5**	**-0.5**	**-0.6**	**-0.1**	0.2	0.5	0.1	0.5	0.3
30%	0.5	0.1	0.1	**-0.3**	**-0.5**	**-0.6**	0.0	0.2	0.6	0.2	0.4	0.3
40%	0.5	0.2	0.3	**-0.2**	**-0.3**	**-0.5**	0.1	0.1	0.6	0.4	0.4	0.5
50%	0.4	0.3	0.3	**0.0**	**-0.1**	**-0.3**	0.2	0.2	0.6	0.4	0.5	0.5
60%	0.4	0.5	0.3	0.1	0.1	**-0.1**	0.3	0.3	0.6	0.2	0.4	0.5
70%	0.4	0.5	0.4	0.1	0.2	0.0	0.2	0.2	0.5	0.4	0.4	0.5
80%	0.5	0.4	0.4	0.2	0.2	0.2	0.2	0.3	0.6	0.5	0.5	0.6
90%	0.5	0.5	0.4	0.3	0.2	0.3	0.3	0.3	0.5	0.4	0.5	0.5
Long Term												
Full Simulation Period[a]	0.4	0.3	0.2	**-0.1**	**-0.1**	**-0.2**	0.1	0.2	0.5	0.3	0.5	0.4
Water Year Types[b]												
Wet (31%)	0.3	0.1	**-0.2**	**-0.5**	**-0.5**	**-0.4**	**-0.1**	0.0	0.4	0.3	0.4	**0.0**
Above Normal (25%)	0.5	0.3	0.2	**-0.5**	**-0.5**	**-0.6**	**-0.2**	0.1	0.5	0.2	0.3	0.3
Below Normal (6%)	0.3	0.2	0.4	**0.0**	**-0.3**	**-0.2**	0.1	0.2	0.5	0.5	0.3	0.4
Dry (13%)	0.4	0.2	0.3	0.1	0.1	**-0.1**	0.2	0.2	0.6	0.3	0.5	0.5
Critical (25%)	0.6	0.4	0.4	0.1	0.2	0.1	0.2	0.3	0.5	0.4	0.5	0.6

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-31-2-22. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	3.1	6.8	6.9	8.1	7.3	5.0	2.3	1.6	2.3	1.7	2.9
20%	1.5	2.4	2.2	6.1	7.4	6.4	2.3	1.7	1.4	2.2	1.7	2.3
30%	1.4	1.8	2.1	4.2	4.7	4.8	2.0	1.6	1.3	2.1	1.6	1.8
40%	1.4	1.5	1.9	2.7	3.2	3.4	1.7	1.5	1.3	1.9	1.6	1.5
50%	1.4	1.4	1.7	2.5	2.5	3.0	1.6	1.4	1.3	1.9	1.5	1.4
60%	1.3	1.3	1.6	2.1	1.7	2.5	1.5	1.3	1.2	1.8	1.5	1.4
70%	1.3	1.2	1.4	1.9	1.6	2.0	1.5	1.3	1.2	1.7	1.4	1.4
80%	1.3	1.1	1.3	1.6	1.6	1.5	1.4	1.2	1.1	1.5	1.4	1.3
90%	1.1	1.0	1.1	1.3	1.3	1.4	1.2	1.0	1.1	1.4	1.3	1.3
Long Term												
Full Simulation Period[a]	1.4	1.9	2.7	3.4	3.8	3.8	2.4	1.6	1.4	1.8	1.5	1.8
Water Year Types[b]												
Wet (31%)	1.7	3.3	6.0	5.5	7.1	6.8	4.5	2.4	1.9	2.1	1.7	2.8
Above Normal (25%)	1.3	1.3	2.1	6.6	6.7	5.6	2.6	1.7	1.3	2.1	1.7	1.8
Below Normal (6%)	1.5	1.5	1.4	2.7	3.2	2.9	1.7	1.4	1.4	1.5	1.5	1.4
Dry (13%)	1.3	1.6	1.6	1.8	2.0	2.7	1.6	1.5	1.3	1.9	1.6	1.3
Critical (25%)	1.3	1.3	1.4	1.9	1.5	1.7	1.3	1.1	1.1	1.6	1.4	1.3

Alternative 6A,6B,6C (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	2.9	5.9	5.3	6.7	6.0	3.9	2.0	1.9	2.0	1.9	2.2
20%	1.7	2.3	2.2	4.8	6.0	5.0	2.3	1.8	1.8	1.7	1.8	2.1
30%	1.6	1.7	2.1	3.5	3.6	3.6	1.9	1.8	1.8	1.7	1.8	1.8
40%	1.6	1.6	1.9	2.3	2.6	2.6	1.9	1.7	1.8	1.6	1.7	1.7
50%	1.5	1.5	1.8	2.2	2.2	2.5	1.8	1.6	1.7	1.6	1.7	1.7
60%	1.5	1.5	1.8	1.9	2.1	2.3	1.7	1.5	1.7	1.6	1.6	1.7
70%	1.4	1.5	1.7	1.7	1.7	1.9	1.6	1.5	1.7	1.6	1.6	1.6
80%	1.4	1.4	1.5	1.6	1.7	1.6	1.6	1.5	1.6	1.5	1.6	1.5
90%	1.4	1.3	1.4	1.4	1.5	1.5	1.5	1.3	1.6	1.5	1.6	1.5
Long Term												
Full Simulation Period[a]	1.5	1.9	2.6	2.9	3.3	3.2	2.3	1.7	1.8	1.7	1.7	1.8
Water Year Types[b]												
Wet (31%)	1.6	2.9	5.3	4.4	6.0	5.7	3.9	2.2	2.0	1.9	1.8	2.2
Above Normal (25%)	1.5	1.4	2.0	5.3	5.3	4.4	2.1	1.8	1.7	1.6	1.7	1.6
Below Normal (6%)	1.6	1.5	1.5	2.4	2.6	2.4	1.9	1.6	1.8	1.5	1.5	1.5
Dry (13%)	1.5	1.6	1.8	1.7	1.8	2.4	1.8	1.7	1.8	1.6	1.6	1.6
Critical (25%)	1.6	1.6	1.7	1.7	1.7	1.7	1.5	1.4	1.6	1.6	1.8	1.7

Alternative 6A,6B,6C (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.1	**-0.2**	**-1.0**	**-1.6**	**-1.4**	**-1.3**	**-1.2**	**-0.3**	0.3	**-0.3**	0.1	**-0.7**
20%	0.1	**-0.1**	**0.0**	**-1.4**	**-1.3**	**-1.4**	**0.0**	0.1	0.4	**-0.5**	0.1	**-0.2**
30%	0.2	**0.0**	**0.0**	**-0.7**	**-1.1**	**-1.2**	**-0.1**	0.2	0.5	**-0.4**	0.2	0.0
40%	0.2	0.1	0.0	**-0.3**	**-0.6**	**-0.8**	0.2	0.2	0.5	**-0.3**	0.1	0.3
50%	0.2	0.1	0.1	**-0.3**	**-0.3**	**-0.6**	0.2	0.2	0.5	**-0.3**	0.2	0.3
60%	0.1	0.2	0.2	**-0.2**	0.4	**-0.2**	0.2	0.2	0.5	**-0.2**	0.1	0.3
70%	0.1	0.3	0.3	**-0.1**	0.1	**0.0**	0.2	0.2	0.5	**-0.1**	0.2	0.3
80%	0.2	0.3	0.2	0.0	0.1	0.2	0.2	0.3	0.5	0.0	0.2	0.2
90%	0.3	0.3	0.3	0.1	0.2	0.1	0.3	0.3	0.5	0.1	0.2	0.3
Long Term												
Full Simulation Period[a]	0.1	0.0	**-0.1**	**-0.5**	**-0.5**	**-0.6**	**-0.1**	0.1	0.4	**-0.2**	0.2	0.0
Water Year Types[b]												
Wet (31%)	**0.0**	**-0.4**	**-0.7**	**-1.1**	**-1.2**	**-1.2**	**-0.7**	**-0.3**	0.1	**-0.1**	0.1	**-0.6**
Above Normal (25%)	0.2	0.1	**0.0**	**-1.3**	**-1.4**	**-1.3**	**-0.5**	0.1	0.4	**-0.4**	**0.0**	**-0.2**
Below Normal (6%)	0.0	**-0.1**	0.1	**-0.2**	**-0.6**	**-0.5**	0.2	0.2	0.4	**-0.1**	0.1	0.1
Dry (13%)	0.1	0.1	0.2	**0.0**	**-0.1**	**-0.3**	0.2	0.2	0.5	**-0.4**	0.1	0.3
Critical (25%)	0.2	0.3	0.3	**-0.1**	0.2	0.0	0.2	0.3	0.5	0.1	0.4	0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-31-2-23. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	3.1	6.8	6.9	8.1	7.3	5.0	2.3	1.6	2.3	1.7	2.9
20%	1.5	2.4	2.2	6.1	7.4	6.4	2.3	1.7	1.4	2.2	1.7	2.3
30%	1.4	1.8	2.1	4.2	4.7	4.8	2.0	1.6	1.3	2.1	1.6	1.8
40%	1.4	1.5	1.9	2.7	3.2	3.4	1.7	1.5	1.3	1.9	1.6	1.5
50%	1.4	1.4	1.7	2.5	2.5	3.0	1.6	1.4	1.3	1.9	1.5	1.4
60%	1.3	1.3	1.6	2.1	1.7	2.5	1.5	1.3	1.2	1.8	1.5	1.4
70%	1.3	1.2	1.4	1.9	1.6	2.0	1.5	1.3	1.2	1.7	1.4	1.4
80%	1.3	1.1	1.3	1.6	1.6	1.5	1.4	1.2	1.1	1.5	1.4	1.3
90%	1.1	1.0	1.1	1.3	1.3	1.4	1.2	1.0	1.1	1.4	1.3	1.3
Long Term												
Full Simulation Period[a]	1.4	1.9	2.7	3.4	3.8	3.8	2.4	1.6	1.4	1.8	1.5	1.8
Water Year Types[b]												
Wet (31%)	1.7	3.3	6.0	5.5	7.1	6.8	4.5	2.4	1.9	2.1	1.7	2.8
Above Normal (25%)	1.3	1.3	2.1	6.6	6.7	5.6	2.6	1.7	1.3	2.1	1.7	1.8
Below Normal (6%)	1.5	1.5	1.4	2.7	3.2	2.9	1.7	1.4	1.4	1.5	1.5	1.4
Dry (13%)	1.3	1.6	1.6	1.8	2.0	2.7	1.6	1.5	1.3	1.9	1.6	1.3
Critical (25%)	1.3	1.3	1.4	1.9	1.5	1.7	1.3	1.1	1.1	1.6	1.4	1.3

Alternative 7 (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.9	3.0	6.2	5.7	7.1	6.4	4.2	2.1	1.9	2.5	2.2	2.6
20%	1.7	2.3	2.2	5.2	6.2	5.2	2.3	1.8	1.8	2.4	2.1	2.5
30%	1.7	1.8	2.2	3.5	3.7	3.7	1.9	1.7	1.8	2.3	2.1	2.0
40%	1.6	1.6	2.0	2.3	2.6	2.6	1.8	1.7	1.8	2.2	2.1	1.9
50%	1.6	1.6	1.9	2.3	2.3	2.5	1.8	1.6	1.8	2.2	2.0	1.9
60%	1.6	1.6	1.8	2.0	2.2	2.3	1.7	1.5	1.8	2.1	2.0	1.9
70%	1.6	1.5	1.7	1.8	1.8	2.0	1.6	1.5	1.7	2.0	2.0	1.9
80%	1.5	1.5	1.5	1.6	1.7	1.7	1.6	1.4	1.7	1.9	1.9	1.9
90%	1.5	1.4	1.4	1.5	1.5	1.5	1.5	1.4	1.6	1.9	1.9	1.8
Long Term												
Full Simulation Period[a]	1.6	2.0	2.7	3.0	3.4	3.3	2.3	1.8	1.8	2.2	2.0	2.1
Water Year Types[b]												
Wet (31%)	1.8	3.1	5.6	4.5	6.2	5.8	4.1	2.3	2.1	2.4	2.2	2.6
Above Normal (25%)	1.6	1.5	2.1	5.7	5.6	4.5	2.2	1.7	1.7	2.2	1.9	1.9
Below Normal (6%)	1.6	1.6	1.5	2.5	2.7	2.6	1.9	1.6	1.8	2.0	2.0	1.9
Dry (13%)	1.6	1.7	1.8	1.8	1.9	2.5	1.8	1.7	1.8	2.3	2.1	1.8
Critical (25%)	1.7	1.6	1.7	1.8	1.7	1.7	1.5	1.4	1.7	1.9	2.0	1.9

Alternative 7 (LLT) minus No Action Alternative (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.2	**-0.1**	**-0.6**	**-1.2**	**-1.0**	**-1.0**	**-0.8**	**-0.2**	0.4	0.2	0.5	**-0.4**
20%	0.2	**-0.1**	**0.0**	**-1.0**	**-1.1**	**-1.2**	**-0.1**	0.1	0.5	0.2	0.4	0.2
30%	0.2	0.0	0.0	**-0.7**	**-1.0**	**-1.1**	**0.0**	0.1	0.5	0.2	0.4	0.2
40%	0.2	0.1	0.1	**-0.3**	**-0.6**	**-0.8**	0.1	0.2	0.5	0.3	0.4	0.5
50%	0.3	0.2	0.2	**-0.2**	**-0.2**	**-0.6**	0.2	0.2	0.5	0.3	0.5	0.5
60%	0.3	0.3	0.3	**-0.1**	0.4	**-0.2**	0.2	0.2	0.5	0.2	0.5	0.5
70%	0.3	0.3	0.3	**-0.1**	0.2	0.1	0.2	0.3	0.5	0.4	0.5	0.5
80%	0.3	0.3	0.2	0.1	0.2	0.2	0.2	0.2	0.6	0.4	0.5	0.5
90%	0.4	0.4	0.3	0.1	0.2	0.2	0.3	0.3	0.5	0.5	0.6	0.5
Long Term												
Full Simulation Period[a]	0.2	0.1	0.0	**-0.4**	**-0.3**	**-0.5**	**0.0**	0.1	0.4	0.3	0.5	0.3
Water Year Types[b]												
Wet (31%)	0.1	**-0.2**	**-0.5**	**-0.9**	**-1.0**	**-1.0**	**-0.5**	**-0.2**	0.2	0.3	0.4	**-0.2**
Above Normal (25%)	0.3	0.2	0.0	**-0.9**	**-1.1**	**-1.2**	**-0.4**	0.1	0.4	0.1	0.3	0.1
Below Normal (6%)	0.1	0.1	0.2	**-0.1**	**-0.6**	**-0.3**	0.2	0.2	0.4	0.5	0.5	0.5
Dry (13%)	0.2	0.1	0.2	0.0	**0.0**	**-0.2**	0.2	0.2	0.5	0.4	0.5	0.5
Critical (25%)	0.3	0.3	0.3	**-0.1**	0.2	0.0	0.2	0.3	0.6	0.3	0.6	0.6

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-31-2-24. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	3.1	6.8	6.9	8.1	7.3	5.0	2.3	1.6	2.3	1.7	2.9
20%	1.5	2.4	2.2	6.1	7.4	6.4	2.3	1.7	1.4	2.2	1.7	2.3
30%	1.4	1.8	2.1	4.2	4.7	4.8	2.0	1.6	1.3	2.1	1.6	1.8
40%	1.4	1.5	1.9	2.7	3.2	3.4	1.7	1.5	1.3	1.9	1.6	1.5
50%	1.4	1.4	1.7	2.5	2.5	3.0	1.6	1.4	1.3	1.9	1.5	1.4
60%	1.3	1.3	1.6	2.1	1.7	2.5	1.5	1.3	1.2	1.8	1.5	1.4
70%	1.3	1.2	1.4	1.9	1.6	2.0	1.5	1.3	1.2	1.7	1.4	1.4
80%	1.3	1.1	1.3	1.6	1.6	1.5	1.4	1.2	1.1	1.5	1.4	1.3
90%	1.1	1.0	1.1	1.3	1.3	1.4	1.2	1.0	1.1	1.4	1.3	1.3
Long Term												
Full Simulation Period[a]	1.4	1.9	2.7	3.4	3.8	3.8	2.4	1.6	1.4	1.8	1.5	1.8
Water Year Types[b]												
Wet (31%)	1.7	3.3	6.0	5.5	7.1	6.8	4.5	2.4	1.9	2.1	1.7	2.8
Above Normal (25%)	1.3	1.3	2.1	6.6	6.7	5.6	2.6	1.7	1.3	2.1	1.7	1.8
Below Normal (6%)	1.5	1.5	1.4	2.7	3.2	2.9	1.7	1.4	1.4	1.5	1.5	1.4
Dry (13%)	1.3	1.6	1.6	1.8	2.0	2.7	1.6	1.5	1.3	1.9	1.6	1.3
Critical (25%)	1.3	1.3	1.4	1.9	1.5	1.7	1.3	1.1	1.1	1.6	1.4	1.3

Alternative 8 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.9	3.2	6.2	5.7	7.0	6.4	4.4	2.4	1.9	2.2	2.1	2.6
20%	1.8	2.4	2.2	5.1	6.2	5.2	2.6	1.9	1.8	2.0	2.1	2.5
30%	1.8	1.8	2.1	3.6	4.0	4.1	2.1	1.8	1.8	2.0	2.1	2.1
40%	1.7	1.7	2.0	2.6	2.7	2.8	2.0	1.7	1.8	2.0	2.0	1.9
50%	1.7	1.7	1.9	2.4	2.5	2.7	1.9	1.7	1.8	1.9	2.0	1.9
60%	1.7	1.6	1.8	2.1	2.3	2.4	1.8	1.7	1.8	1.9	2.0	1.9
70%	1.6	1.5	1.7	1.8	1.9	2.1	1.8	1.6	1.7	1.9	1.9	1.9
80%	1.6	1.5	1.5	1.6	1.8	1.9	1.7	1.5	1.7	1.9	1.9	1.8
90%	1.6	1.4	1.5	1.5	1.5	1.8	1.7	1.5	1.6	1.8	1.9	1.8
Long Term												
Full Simulation Period[a]	1.7	2.0	2.7	3.1	3.5	3.5	2.5	1.9	1.8	2.0	2.0	2.1
Water Year Types[b]												
Wet (31%)	1.8	3.2	5.6	4.7	6.1	5.8	4.2	2.5	2.2	2.2	2.1	2.6
Above Normal (25%)	1.6	1.5	2.1	5.8	5.7	4.6	2.4	1.8	1.7	1.9	2.0	2.0
Below Normal (6%)	1.7	1.6	1.5	2.7	3.2	2.7	2.0	1.8	1.8	1.8	1.9	1.8
Dry (13%)	1.6	1.7	1.8	1.9	2.1	2.8	2.1	1.7	1.8	1.9	2.0	1.8
Critical (25%)	1.7	1.7	1.7	1.8	1.8	1.9	1.6	1.5	1.7	1.9	2.0	1.9

Alternative 8 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.2	0.1	**-0.6**	**-1.2**	**-1.0**	**-1.0**	**-0.6**	0.1	0.3	**0.0**	0.4	**-0.4**
20%	0.3	**0.0**	0.0	**-1.0**	**-1.1**	**-1.2**	0.2	0.2	0.4	**-0.2**	0.4	0.2
30%	0.3	0.0	0.0	**-0.6**	**-0.6**	**-0.7**	0.1	0.2	0.5	**-0.1**	0.4	0.3
40%	0.3	0.2	0.1	**0.0**	**-0.6**	**-0.6**	0.3	0.2	0.5	0.1	0.4	0.4
50%	0.3	0.3	0.1	**-0.1**	**0.0**	**-0.4**	0.4	0.3	0.5	0.1	0.5	0.5
60%	0.3	0.3	0.3	0.0	0.5	**0.0**	0.3	0.4	0.5	0.1	0.4	0.5
70%	0.3	0.3	0.3	**-0.1**	0.3	0.1	0.3	0.3	0.6	0.2	0.5	0.5
80%	0.3	0.4	0.2	0.1	0.2	0.4	0.3	0.3	0.6	0.3	0.5	0.5
90%	0.4	0.4	0.3	0.2	0.2	0.4	0.4	0.4	0.5	0.4	0.5	0.5
Long Term												
Full Simulation Period[a]	0.3	0.2	0.0	**-0.3**	**-0.3**	**-0.3**	0.1	0.3	0.5	0.1	0.5	0.3
Water Year Types[b]												
Wet (31%)	0.1	**0.0**	**-0.5**	**-0.8**	**-1.0**	**-1.0**	**-0.4**	0.1	0.3	0.1	0.4	**-0.2**
Above Normal (25%)	0.4	0.2	0.0	**-0.8**	**-1.0**	**-1.1**	**-0.2**	0.2	0.4	**-0.1**	0.4	0.2
Below Normal (6%)	0.2	0.0	0.2	0.0	**0.0**	**-0.3**	0.3	0.4	0.4	0.3	0.4	0.4
Dry (13%)	0.3	0.1	0.2	0.1	0.1	0.0	0.5	0.2	0.5	0.0	0.4	0.5
Critical (25%)	0.4	0.4	0.3	**0.0**	0.3	0.2	0.3	0.4	0.6	0.3	0.6	0.6

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-31-2-25. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	3.1	6.8	6.9	8.1	7.3	5.0	2.3	1.6	2.3	1.7	2.9
20%	1.5	2.4	2.2	6.1	7.4	6.4	2.3	1.7	1.4	2.2	1.7	2.3
30%	1.4	1.8	2.1	4.2	4.7	4.8	2.0	1.6	1.3	2.1	1.6	1.8
40%	1.4	1.5	1.9	2.7	3.2	3.4	1.7	1.5	1.3	1.9	1.6	1.5
50%	1.4	1.4	1.7	2.5	2.5	3.0	1.6	1.4	1.3	1.9	1.5	1.4
60%	1.3	1.3	1.6	2.1	1.7	2.5	1.5	1.3	1.2	1.8	1.5	1.4
70%	1.3	1.2	1.4	1.9	1.6	2.0	1.5	1.3	1.2	1.7	1.4	1.4
80%	1.3	1.1	1.3	1.6	1.6	1.5	1.4	1.2	1.1	1.5	1.4	1.3
90%	1.1	1.0	1.1	1.3	1.3	1.4	1.2	1.0	1.1	1.4	1.3	1.3
Long Term												
Full Simulation Period[a]	1.4	1.9	2.7	3.4	3.8	3.8	2.4	1.6	1.4	1.8	1.5	1.8
Water Year Types[b]												
Wet (31%)	1.7	3.3	6.0	5.5	7.1	6.8	4.5	2.4	1.9	2.1	1.7	2.8
Above Normal (25%)	1.3	1.3	2.1	6.6	6.7	5.6	2.6	1.7	1.3	2.1	1.7	1.8
Below Normal (6%)	1.5	1.5	1.4	2.7	3.2	2.9	1.7	1.4	1.4	1.5	1.5	1.4
Dry (13%)	1.3	1.6	1.6	1.8	2.0	2.7	1.6	1.5	1.3	1.9	1.6	1.3
Critical (25%)	1.3	1.3	1.4	1.9	1.5	1.7	1.3	1.1	1.1	1.6	1.4	1.3

Alternative 9 (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.0	3.4	7.0	6.9	8.4	7.6	5.0	2.5	2.1	2.4	2.2	3.3
20%	1.9	2.6	2.2	6.1	7.5	6.3	2.3	2.1	1.9	2.4	2.2	2.8
30%	1.9	2.1	2.2	4.0	4.5	4.5	2.1	1.9	1.9	2.3	2.1	2.3
40%	1.9	1.8	2.1	2.6	3.2	3.0	1.9	1.9	1.9	2.3	2.1	2.0
50%	1.8	1.8	2.0	2.5	2.4	2.9	1.8	1.8	1.8	2.2	2.1	1.9
60%	1.7	1.7	2.0	2.1	2.0	2.4	1.8	1.8	1.8	2.1	2.0	1.9
70%	1.7	1.6	1.9	1.9	1.9	2.0	1.8	1.7	1.8	2.1	2.0	1.9
80%	1.7	1.5	1.7	1.8	1.8	1.7	1.7	1.7	1.8	2.0	1.9	1.8
90%	1.6	1.5	1.6	1.7	1.7	1.7	1.6	1.5	1.7	1.9	1.8	1.8
Long Term												
Full Simulation Period[a]	1.8	2.2	3.0	3.5	4.0	3.9	2.6	2.0	1.9	2.2	2.1	2.2
Water Year Types[b]												
Wet (31%)	2.1	3.6	6.3	5.4	7.3	7.0	4.7	2.7	2.4	2.4	2.2	3.2
Above Normal (25%)	1.7	1.7	2.2	6.8	6.8	5.5	2.6	2.0	1.8	2.3	2.1	2.3
Below Normal (6%)	1.9	1.9	1.7	2.6	3.2	2.9	1.9	1.8	1.9	2.0	1.9	1.9
Dry (13%)	1.8	1.8	1.9	1.9	2.1	2.7	1.9	1.9	1.8	2.2	2.1	1.8
Critical (25%)	1.7	1.7	1.9	2.0	1.8	1.9	1.7	1.6	1.7	2.0	1.9	1.8

Alternative 9 (LLT) minus No Action Alternative (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.4	0.2	0.2	**0.0**	0.3	0.3	**-0.1**	0.2	0.6	0.2	0.5	0.3
20%	0.4	0.2	0.0	0.0	0.2	**0.0**	**0.0**	0.4	0.5	0.1	0.5	0.5
30%	0.5	0.3	0.1	**-0.1**	**-0.2**	**-0.3**	0.1	0.3	0.5	0.2	0.5	0.5
40%	0.5	0.3	0.2	**-0.1**	0.0	**-0.4**	0.3	0.4	0.6	0.4	0.5	0.5
50%	0.4	0.3	0.3	0.0	**0.0**	**-0.1**	0.3	0.4	0.6	0.4	0.5	0.5
60%	0.4	0.4	0.4	0.0	0.2	**-0.1**	0.3	0.5	0.6	0.3	0.5	0.5
70%	0.4	0.4	0.6	0.0	0.3	0.1	0.3	0.4	0.6	0.4	0.6	0.5
80%	0.4	0.4	0.4	0.2	0.2	0.3	0.3	0.5	0.7	0.4	0.5	0.5
90%	0.5	0.5	0.5	0.3	0.4	0.4	0.3	0.5	0.6	0.5	0.5	0.5
Long Term												
Full Simulation Period[a]	0.4	0.3	0.3	0.1	0.2	0.1	0.2	0.4	0.6	0.4	0.5	0.5
Water Year Types[b]												
Wet (31%)	0.4	0.3	0.3	**0.0**	0.2	0.2	0.2	0.3	0.5	0.3	0.5	0.3
Above Normal (25%)	0.4	0.4	0.1	0.1	0.1	**-0.2**	**0.0**	0.3	0.5	0.3	0.5	0.5
Below Normal (6%)	0.4	0.4	0.4	**0.0**	0.0	**0.0**	0.3	0.4	0.5	0.5	0.5	0.5
Dry (13%)	0.4	0.3	0.3	0.2	0.1	**0.0**	0.3	0.4	0.6	0.3	0.5	0.5
Critical (25%)	0.4	0.4	0.5	0.1	0.3	0.2	0.3	0.5	0.7	0.5	0.5	0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

C.32. Sacramento River at Rio Vista

Table C-32-1-1. Sacramento River at Rio Vista, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	3.4	3.8	4.1	4.1	4.5	4.0	3.7	3.6	3.7	3.9	3.8	3.7
20%	3.2	3.5	3.7	3.9	4.1	3.8	3.2	3.3	3.6	3.8	3.7	3.5
30%	3.2	3.3	3.5	3.7	3.6	3.4	3.2	3.3	3.5	3.7	3.6	3.5
40%	3.2	3.3	3.5	3.5	3.5	3.4	3.1	3.3	3.5	3.7	3.6	3.4
50%	3.1	3.2	3.5	3.5	3.3	3.3	3.0	3.2	3.5	3.7	3.6	3.4
60%	3.1	3.2	3.3	3.4	3.3	3.2	3.0	3.2	3.4	3.6	3.5	3.4
70%	3.1	3.2	3.3	3.4	3.2	3.1	2.9	3.2	3.4	3.6	3.4	3.3
80%	3.0	3.1	3.3	3.2	3.1	2.9	2.9	3.1	3.3	3.6	3.4	3.2
90%	3.0	3.0	3.1	3.2	3.0	2.8	2.8	3.0	3.3	3.5	3.4	3.2
Long Term												
Full Simulation Period[a]	3.2	3.3	3.5	3.6	3.6	3.3	3.1	3.3	3.5	3.7	3.6	3.4
Water Year Types[b]												
Wet (31%)	3.3	3.7	4.0	4.0	4.2	4.0	3.4	3.5	3.8	3.9	3.7	3.8
Above Normal (25%)	3.0	3.1	3.4	4.1	4.2	3.6	3.2	3.3	3.3	3.5	3.5	3.2
Below Normal (6%)	3.1	3.2	3.1	3.6	3.5	3.3	2.9	3.1	3.2	3.4	3.3	3.2
Dry (13%)	3.1	3.2	3.4	3.3	3.2	3.2	3.0	3.3	3.5	3.7	3.6	3.3
Critical (25%)	3.2	3.2	3.4	3.3	3.1	2.9	2.9	3.1	3.4	3.6	3.5	3.4

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	4.8	5.3	5.6	5.6	6.0	5.4	5.1	5.0	5.1	5.4	5.3	5.3
20%	4.7	4.9	5.2	5.4	5.7	5.3	4.7	4.8	5.1	5.3	5.1	5.0
30%	4.7	4.9	5.0	5.2	5.1	4.9	4.7	4.8	5.0	5.3	5.1	5.0
40%	4.7	4.8	4.9	5.0	4.9	4.8	4.6	4.7	5.0	5.2	5.1	4.9
50%	4.6	4.7	4.9	5.0	4.8	4.7	4.5	4.7	5.0	5.2	5.1	4.9
60%	4.6	4.7	4.8	4.9	4.8	4.7	4.4	4.7	4.9	5.2	5.0	4.9
70%	4.6	4.7	4.8	4.8	4.7	4.6	4.4	4.7	4.9	5.1	4.9	4.8
80%	4.6	4.7	4.8	4.8	4.6	4.4	4.4	4.6	4.9	5.1	4.9	4.7
90%	4.5	4.5	4.6	4.7	4.5	4.3	4.3	4.5	4.8	5.0	4.9	4.7
Long Term												
Full Simulation Period[a]	4.7	4.8	5.0	5.1	5.0	4.8	4.6	4.8	5.0	5.2	5.1	4.9
Water Year Types[b]												
Wet (31%)	4.8	5.2	5.5	5.5	5.7	5.4	4.9	5.0	5.2	5.4	5.2	5.3
Above Normal (25%)	4.5	4.6	4.9	5.6	5.7	5.1	4.7	4.7	4.8	5.1	5.0	4.8
Below Normal (6%)	4.6	4.7	4.6	5.1	4.9	4.7	4.4	4.6	4.7	4.9	4.8	4.7
Dry (13%)	4.6	4.7	4.9	4.8	4.7	4.6	4.5	4.8	5.0	5.2	5.1	4.8
Critical (25%)	4.7	4.7	4.9	4.8	4.6	4.4	4.4	4.7	4.9	5.2	5.0	4.9

No Action Alternative (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.4	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6
20%	1.5	1.4	1.5	1.5	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5
30%	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
40%	1.5	1.5	1.5	1.5	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5
50%	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
60%	1.5	1.5	1.5	1.5	1.5	1.4	1.5	1.5	1.5	1.6	1.5	1.5
70%	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
80%	1.5	1.5	1.5	1.6	1.5	1.5	1.5	1.4	1.5	1.5	1.5	1.5
90%	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Long Term												
Full Simulation Period[a]	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Water Year Types[b]												
Wet (31%)	1.5	1.4	1.5	1.5	1.5	1.5	1.5	1.4	1.4	1.5	1.5	1.6
Above Normal (25%)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Below Normal (6%)	1.5	1.5	1.5	1.5	1.4	1.5	1.5	1.4	1.5	1.5	1.5	1.5
Dry (13%)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Critical (25%)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

Table C-32-1-2. Sacramento River at Rio Vista, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.4	3.8	4.1	4.1	4.5	4.0	3.7	3.6	3.7	3.9	3.8	3.7
20%	3.2	3.5	3.7	3.9	4.1	3.8	3.2	3.3	3.6	3.8	3.7	3.5
30%	3.2	3.3	3.5	3.7	3.6	3.4	3.2	3.3	3.5	3.7	3.6	3.5
40%	3.2	3.3	3.5	3.5	3.5	3.4	3.1	3.3	3.5	3.7	3.6	3.4
50%	3.1	3.2	3.5	3.5	3.3	3.3	3.0	3.2	3.5	3.7	3.6	3.4
60%	3.1	3.2	3.3	3.4	3.3	3.2	3.0	3.2	3.4	3.6	3.5	3.4
70%	3.1	3.2	3.3	3.4	3.2	3.1	2.9	3.2	3.4	3.6	3.4	3.3
80%	3.0	3.1	3.3	3.2	3.1	2.9	2.9	3.1	3.3	3.6	3.4	3.2
90%	3.0	3.0	3.1	3.2	3.0	2.8	2.8	3.0	3.3	3.5	3.4	3.2
Long Term												
Full Simulation Period[a]	3.2	3.3	3.5	3.6	3.6	3.3	3.1	3.3	3.5	3.7	3.6	3.4
Water Year Types[b]												
Wet (31%)	3.3	3.7	4.0	4.0	4.2	4.0	3.4	3.5	3.8	3.9	3.7	3.8
Above Normal (25%)	3.0	3.1	3.4	4.1	4.2	3.6	3.2	3.3	3.3	3.5	3.5	3.2
Below Normal (6%)	3.1	3.2	3.1	3.6	3.5	3.3	2.9	3.1	3.2	3.4	3.3	3.2
Dry (13%)	3.1	3.2	3.4	3.3	3.2	3.2	3.0	3.3	3.5	3.7	3.6	3.3
Critical (25%)	3.2	3.2	3.4	3.3	3.1	2.9	2.9	3.1	3.4	3.6	3.5	3.4

Alternative 1A,1B,1C (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	4.6	4.9	5.0	5.4	4.9	4.5	4.4	4.5	4.7	4.6	4.6
20%	4.2	4.3	4.5	4.8	5.0	4.7	4.1	4.2	4.4	4.6	4.5	4.4
30%	4.1	4.2	4.4	4.6	4.5	4.2	4.1	4.2	4.4	4.6	4.5	4.3
40%	4.1	4.2	4.3	4.4	4.3	4.2	4.0	4.1	4.3	4.6	4.5	4.3
50%	4.1	4.2	4.3	4.4	4.2	4.1	3.9	4.1	4.3	4.5	4.4	4.3
60%	4.1	4.1	4.2	4.3	4.1	4.1	3.9	4.1	4.2	4.5	4.4	4.3
70%	4.0	4.0	4.2	4.2	4.1	4.0	3.8	4.0	4.2	4.4	4.3	4.2
80%	4.0	4.0	4.1	4.1	4.0	3.9	3.8	3.9	4.2	4.4	4.3	4.1
90%	4.0	3.9	4.0	4.0	3.9	3.8	3.7	3.9	4.1	4.3	4.2	4.1
Long Term												
Full Simulation Period[a]	4.1	4.2	4.4	4.5	4.4	4.2	4.0	4.1	4.3	4.5	4.4	4.3
Water Year Types[b]												
Wet (31%)	4.2	4.6	4.9	4.8	5.1	4.9	4.4	4.3	4.6	4.7	4.6	4.6
Above Normal (25%)	4.0	4.0	4.3	5.0	5.1	4.5	4.1	4.1	4.2	4.4	4.3	4.1
Below Normal (6%)	4.1	4.1	4.0	4.5	4.2	4.1	3.8	3.9	4.1	4.2	4.2	4.1
Dry (13%)	4.1	4.1	4.2	4.2	4.1	4.0	3.9	4.1	4.4	4.6	4.4	4.2
Critical (25%)	4.1	4.1	4.2	4.2	4.0	3.8	3.8	4.0	4.2	4.5	4.4	4.3

Alternative 1A,1B,1C (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.9	0.8	0.8	0.8	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.9
20%	0.9	0.8	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.9	0.9
30%	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
40%	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.8	0.9	0.8	0.9	0.9
50%	0.9	0.9	0.9	0.8	0.9	0.8	0.9	0.9	0.9	0.8	0.9	0.9
60%	1.0	0.9	0.9	0.9	0.8	0.8	0.9	0.9	0.8	0.9	0.9	0.9
70%	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.9
80%	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.9	0.8	0.9	0.9
90%	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.9	0.9
Long Term												
Full Simulation Period[a]	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.9	0.9
Water Year Types[b]												
Wet (31%)	0.9	0.8	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.9	0.8
Above Normal (25%)	1.0	0.9	0.9	0.8	0.9	0.9	0.8	0.8	0.9	0.9	0.9	0.9
Below Normal (6%)	1.0	0.9	0.9	0.9	0.8	0.8	0.9	0.8	0.9	0.8	0.9	0.9
Dry (13%)	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Critical (25%)	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.9	0.9

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-32-1-3. Sacramento River at Rio Vista, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.4	3.8	4.1	4.1	4.5	4.0	3.7	3.6	3.7	3.9	3.8	3.7
20%	3.2	3.5	3.7	3.9	4.1	3.8	3.2	3.3	3.6	3.8	3.7	3.5
30%	3.2	3.3	3.5	3.7	3.6	3.4	3.2	3.3	3.5	3.7	3.6	3.5
40%	3.2	3.3	3.5	3.5	3.5	3.4	3.1	3.3	3.5	3.7	3.6	3.4
50%	3.1	3.2	3.5	3.5	3.3	3.3	3.0	3.2	3.5	3.7	3.6	3.4
60%	3.1	3.2	3.3	3.4	3.3	3.2	3.0	3.2	3.4	3.6	3.5	3.4
70%	3.1	3.2	3.3	3.4	3.2	3.1	2.9	3.2	3.4	3.6	3.4	3.3
80%	3.0	3.1	3.3	3.2	3.1	2.9	2.9	3.1	3.3	3.6	3.4	3.2
90%	3.0	3.0	3.1	3.2	3.0	2.8	2.8	3.0	3.3	3.5	3.4	3.2
Long Term												
Full Simulation Period[a]	3.2	3.3	3.5	3.6	3.6	3.3	3.1	3.3	3.5	3.7	3.6	3.4
Water Year Types[b]												
Wet (31%)	3.3	3.7	4.0	4.0	4.2	4.0	3.4	3.5	3.8	3.9	3.7	3.8
Above Normal (25%)	3.0	3.1	3.4	4.1	4.2	3.6	3.2	3.3	3.3	3.5	3.5	3.2
Below Normal (6%)	3.1	3.2	3.1	3.6	3.5	3.3	2.9	3.1	3.2	3.4	3.3	3.2
Dry (13%)	3.1	3.2	3.4	3.3	3.2	3.2	3.0	3.3	3.5	3.7	3.6	3.3
Critical (25%)	3.2	3.2	3.4	3.3	3.1	2.9	2.9	3.1	3.4	3.6	3.5	3.4

Alternative 2A,2B,2C (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	4.6	4.9	5.0	5.4	4.9	4.5	4.4	4.5	4.7	4.6	4.6
20%	4.2	4.3	4.5	4.8	5.0	4.7	4.1	4.2	4.4	4.6	4.5	4.4
30%	4.1	4.2	4.4	4.6	4.5	4.2	4.1	4.2	4.4	4.6	4.5	4.4
40%	4.1	4.2	4.4	4.4	4.3	4.2	4.0	4.1	4.3	4.6	4.5	4.3
50%	4.1	4.1	4.3	4.4	4.2	4.1	3.9	4.1	4.3	4.5	4.4	4.3
60%	4.0	4.1	4.2	4.3	4.1	4.1	3.9	4.1	4.2	4.5	4.4	4.3
70%	4.0	4.0	4.2	4.2	4.1	4.0	3.8	4.0	4.2	4.5	4.3	4.2
80%	4.0	4.0	4.1	4.2	4.0	3.9	3.8	3.9	4.2	4.4	4.3	4.1
90%	3.9	3.9	4.0	4.1	3.9	3.7	3.7	3.9	4.1	4.3	4.2	4.1
Long Term												
Full Simulation Period[a]	4.1	4.2	4.4	4.5	4.4	4.2	4.0	4.1	4.3	4.5	4.4	4.3
Water Year Types[b]												
Wet (31%)	4.2	4.5	4.9	4.8	5.1	4.9	4.4	4.3	4.6	4.7	4.6	4.7
Above Normal (25%)	4.0	4.0	4.3	5.0	5.1	4.5	4.0	4.1	4.1	4.4	4.3	4.2
Below Normal (6%)	4.0	4.1	4.0	4.5	4.2	4.1	3.9	3.9	4.1	4.2	4.2	4.1
Dry (13%)	4.1	4.1	4.2	4.2	4.1	4.0	3.9	4.1	4.4	4.6	4.4	4.2
Critical (25%)	4.1	4.1	4.2	4.2	4.0	3.8	3.8	4.0	4.2	4.5	4.4	4.3

Alternative 2A,2B,2C (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.9	0.8	0.8	0.8	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.9
20%	1.0	0.8	0.9	0.9	0.8	0.9	0.9	0.8	0.8	0.9	0.9	1.0
30%	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
40%	0.9	0.9	0.9	0.8	0.8	0.8	0.9	0.8	0.9	0.8	0.9	0.9
50%	0.9	0.9	0.9	0.8	0.9	0.8	0.9	0.9	0.8	0.8	0.9	0.9
60%	1.0	0.9	0.9	0.9	0.8	0.8	0.9	0.9	0.8	0.9	0.9	0.9
70%	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.9	0.9
80%	1.0	0.9	0.9	1.0	0.9	0.9	0.9	0.8	0.8	0.8	0.9	0.9
90%	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.9	0.9
Long Term												
Full Simulation Period[a]	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.9
Water Year Types[b]												
Wet (31%)	0.9	0.8	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.9	0.9
Above Normal (25%)	1.0	0.9	0.9	0.8	0.9	0.9	0.8	0.8	0.8	0.9	0.9	0.9
Below Normal (6%)	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.8	0.9	0.8	0.8	0.9
Dry (13%)	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Critical (25%)	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.9

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-32-1-4. Sacramento River at Rio Vista, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	3.4	3.8	4.1	4.1	4.5	4.0	3.7	3.6	3.7	3.9	3.8	3.7
20%	3.2	3.5	3.7	3.9	4.1	3.8	3.2	3.3	3.6	3.8	3.7	3.5
30%	3.2	3.3	3.5	3.7	3.6	3.4	3.2	3.3	3.5	3.7	3.6	3.5
40%	3.2	3.3	3.5	3.5	3.5	3.4	3.1	3.3	3.5	3.7	3.6	3.4
50%	3.1	3.2	3.5	3.5	3.3	3.3	3.0	3.2	3.5	3.7	3.6	3.4
60%	3.1	3.2	3.3	3.4	3.3	3.2	3.0	3.2	3.4	3.6	3.5	3.4
70%	3.1	3.2	3.3	3.4	3.2	3.1	2.9	3.2	3.4	3.6	3.4	3.3
80%	3.0	3.1	3.3	3.2	3.1	2.9	2.9	3.1	3.3	3.6	3.4	3.2
90%	3.0	3.0	3.1	3.2	3.0	2.8	2.8	3.0	3.3	3.5	3.4	3.2
Long Term												
Full Simulation Period[a]	3.2	3.3	3.5	3.6	3.6	3.3	3.1	3.3	3.5	3.7	3.6	3.4
Water Year Types[b]												
Wet (31%)	3.3	3.7	4.0	4.0	4.2	4.0	3.4	3.5	3.8	3.9	3.7	3.8
Above Normal (25%)	3.0	3.1	3.4	4.1	4.2	3.6	3.2	3.3	3.3	3.5	3.5	3.2
Below Normal (6%)	3.1	3.2	3.1	3.6	3.5	3.3	2.9	3.1	3.2	3.4	3.3	3.2
Dry (13%)	3.1	3.2	3.4	3.3	3.2	3.2	3.0	3.3	3.5	3.7	3.6	3.3
Critical (25%)	3.2	3.2	3.4	3.3	3.1	2.9	2.9	3.1	3.4	3.6	3.5	3.4

Alternative 3 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	4.3	4.6	5.0	5.0	5.4	4.9	4.5	4.4	4.5	4.7	4.6	4.6
20%	4.1	4.3	4.5	4.8	5.0	4.7	4.1	4.2	4.5	4.6	4.5	4.4
30%	4.1	4.2	4.4	4.6	4.5	4.3	4.1	4.2	4.4	4.6	4.5	4.3
40%	4.1	4.2	4.3	4.4	4.3	4.2	4.0	4.1	4.3	4.6	4.5	4.3
50%	4.1	4.1	4.3	4.4	4.2	4.1	3.9	4.1	4.3	4.5	4.4	4.3
60%	4.1	4.1	4.2	4.3	4.1	4.1	3.9	4.1	4.2	4.5	4.4	4.3
70%	4.0	4.0	4.2	4.2	4.1	4.0	3.8	4.0	4.2	4.5	4.3	4.2
80%	4.0	4.0	4.1	4.2	4.0	3.9	3.8	3.9	4.2	4.4	4.3	4.1
90%	4.0	3.9	4.0	4.1	3.9	3.8	3.7	3.9	4.1	4.3	4.2	4.1
Long Term												
Full Simulation Period[a]	4.1	4.2	4.4	4.5	4.5	4.3	4.0	4.1	4.3	4.5	4.4	4.3
Water Year Types[b]												
Wet (31%)	4.2	4.6	4.9	4.9	5.1	4.9	4.4	4.3	4.6	4.7	4.6	4.6
Above Normal (25%)	4.0	4.0	4.3	5.0	5.1	4.5	4.1	4.1	4.1	4.4	4.3	4.1
Below Normal (6%)	4.0	4.0	4.0	4.5	4.3	4.1	3.8	3.9	4.1	4.2	4.2	4.1
Dry (13%)	4.1	4.1	4.2	4.2	4.1	4.1	3.9	4.1	4.4	4.6	4.4	4.2
Critical (25%)	4.1	4.1	4.2	4.2	4.0	3.8	3.8	4.0	4.2	4.5	4.4	4.3

Alternative 3 (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.9	0.8	0.9	0.9	1.0	0.9	0.9	0.8	0.9	0.8	0.8	0.9
20%	0.9	0.8	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.9	0.9
30%	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
40%	0.9	0.9	0.9	0.9	0.8	0.9	0.9	0.8	0.9	0.8	0.9	0.9
50%	0.9	0.9	0.9	0.8	0.9	0.9	0.9	0.9	0.9	0.8	0.9	0.9
60%	1.0	0.9	0.9	0.9	0.8	0.9	0.9	0.9	0.8	0.9	0.9	0.9
70%	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.9
80%	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.9	0.8	0.9	0.9
90%	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.9	0.9
Long Term												
Full Simulation Period[a]	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.9
Water Year Types[b]												
Wet (31%)	0.9	0.8	0.9	0.9	1.0	0.9	0.9	0.8	0.8	0.8	0.8	0.8
Above Normal (25%)	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.9	0.9	0.9	0.9
Below Normal (6%)	1.0	0.9	0.9	0.9	0.8	0.9	0.9	0.8	0.9	0.8	0.9	0.9
Dry (13%)	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Critical (25%)	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.9	0.9

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-32-1-5. Sacramento River at Rio Vista, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	3.4	3.8	4.1	4.1	4.5	4.0	3.7	3.6	3.7	3.9	3.8	3.7
20%	3.2	3.5	3.7	3.9	4.1	3.8	3.2	3.3	3.6	3.8	3.7	3.5
30%	3.2	3.3	3.5	3.7	3.6	3.4	3.2	3.3	3.5	3.7	3.6	3.5
40%	3.2	3.3	3.5	3.5	3.5	3.4	3.1	3.3	3.5	3.7	3.6	3.4
50%	3.1	3.2	3.5	3.5	3.3	3.3	3.0	3.2	3.5	3.7	3.6	3.4
60%	3.1	3.2	3.3	3.4	3.3	3.2	3.0	3.2	3.4	3.6	3.5	3.4
70%	3.1	3.2	3.3	3.4	3.2	3.1	2.9	3.2	3.4	3.6	3.4	3.3
80%	3.0	3.1	3.3	3.2	3.1	2.9	2.9	3.1	3.3	3.6	3.4	3.2
90%	3.0	3.0	3.1	3.2	3.0	2.8	2.8	3.0	3.3	3.5	3.4	3.2
Long Term												
Full Simulation Period[a]	3.2	3.3	3.5	3.6	3.6	3.3	3.1	3.3	3.5	3.7	3.6	3.4
Water Year Types[b]												
Wet (31%)	3.3	3.7	4.0	4.0	4.2	4.0	3.4	3.5	3.8	3.9	3.7	3.8
Above Normal (25%)	3.0	3.1	3.4	4.1	4.2	3.6	3.2	3.3	3.3	3.5	3.5	3.2
Below Normal (6%)	3.1	3.2	3.1	3.6	3.5	3.3	2.9	3.1	3.2	3.4	3.3	3.2
Dry (13%)	3.1	3.2	3.4	3.3	3.2	3.2	3.0	3.3	3.5	3.7	3.6	3.3
Critical (25%)	3.2	3.2	3.4	3.3	3.1	2.9	2.9	3.1	3.4	3.6	3.5	3.4

Alternative 4 H1 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	4.3	4.6	5.0	5.0	5.4	4.9	4.5	4.4	4.5	4.7	4.6	4.6
20%	4.2	4.3	4.5	4.8	5.0	4.7	4.1	4.2	4.5	4.6	4.5	4.4
30%	4.1	4.2	4.4	4.6	4.5	4.3	4.1	4.2	4.4	4.6	4.5	4.3
40%	4.1	4.2	4.4	4.4	4.3	4.2	4.0	4.1	4.3	4.6	4.5	4.3
50%	4.1	4.1	4.3	4.4	4.2	4.1	3.9	4.1	4.3	4.5	4.4	4.3
60%	4.0	4.0	4.2	4.3	4.1	4.1	3.9	4.1	4.2	4.5	4.4	4.3
70%	4.0	4.0	4.2	4.3	4.1	4.0	3.8	4.0	4.2	4.5	4.3	4.2
80%	4.0	4.0	4.1	4.2	4.0	3.9	3.8	4.0	4.2	4.4	4.3	4.1
90%	3.9	3.9	4.0	4.1	3.9	3.7	3.7	3.9	4.1	4.3	4.2	4.1
Long Term												
Full Simulation Period[a]	4.1	4.2	4.4	4.5	4.5	4.2	4.0	4.1	4.3	4.5	4.4	4.3
Water Year Types[b]												
Wet (31%)	4.2	4.6	4.9	4.8	5.1	4.9	4.4	4.3	4.5	4.7	4.6	4.6
Above Normal (25%)	4.0	4.0	4.3	5.0	5.1	4.5	4.1	4.1	4.1	4.4	4.3	4.1
Below Normal (6%)	4.0	4.0	4.0	4.5	4.3	4.1	3.9	4.0	4.1	4.2	4.2	4.1
Dry (13%)	4.1	4.1	4.3	4.2	4.1	4.0	3.9	4.1	4.4	4.6	4.4	4.2
Critical (25%)	4.1	4.1	4.2	4.2	4.0	3.8	3.8	4.0	4.2	4.5	4.4	4.3

Alternative 4 H1 (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.9	0.8	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.9
20%	0.9	0.8	0.8	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.9	0.9
30%	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
40%	0.9	0.9	0.9	0.9	0.8	0.9	0.9	0.8	0.9	0.8	0.9	0.9
50%	0.9	0.9	0.9	0.8	0.9	0.8	0.9	0.9	0.8	0.8	0.9	0.9
60%	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.9	0.8	0.9	0.9	0.9
70%	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.9
80%	0.9	0.9	0.9	1.0	0.9	0.9	0.9	0.8	0.8	0.8	0.9	0.9
90%	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.9	0.9
Long Term												
Full Simulation Period[a]	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.9
Water Year Types[b]												
Wet (31%)	0.9	0.8	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.9	0.8
Above Normal (25%)	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.9	0.9	0.9
Below Normal (6%)	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.8	0.9	0.8	0.8	0.9
Dry (13%)	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Critical (25%)	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.9

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-32-1-6. Sacramento River at Rio Vista, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	3.4	3.8	4.1	4.1	4.5	4.0	3.7	3.6	3.7	3.9	3.8	3.7
20%	3.2	3.5	3.7	3.9	4.1	3.8	3.2	3.3	3.6	3.8	3.7	3.5
30%	3.2	3.3	3.5	3.7	3.6	3.4	3.2	3.3	3.5	3.7	3.6	3.5
40%	3.2	3.3	3.5	3.5	3.5	3.4	3.1	3.3	3.5	3.7	3.6	3.4
50%	3.1	3.2	3.5	3.5	3.3	3.3	3.0	3.2	3.5	3.7	3.6	3.4
60%	3.1	3.2	3.3	3.4	3.3	3.2	3.0	3.2	3.4	3.6	3.5	3.4
70%	3.1	3.2	3.3	3.4	3.2	3.1	2.9	3.2	3.4	3.6	3.4	3.3
80%	3.0	3.1	3.3	3.2	3.1	2.9	2.9	3.1	3.3	3.6	3.4	3.2
90%	3.0	3.0	3.1	3.2	3.0	2.8	2.8	3.0	3.3	3.5	3.4	3.2
Long Term												
Full Simulation Period[a]	3.2	3.3	3.5	3.6	3.6	3.3	3.1	3.3	3.5	3.7	3.6	3.4
Water Year Types[b]												
Wet (31%)	3.3	3.7	4.0	4.0	4.2	4.0	3.4	3.5	3.8	3.9	3.7	3.8
Above Normal (25%)	3.0	3.1	3.4	4.1	4.2	3.6	3.2	3.3	3.3	3.5	3.5	3.2
Below Normal (6%)	3.1	3.2	3.1	3.6	3.5	3.3	2.9	3.1	3.2	3.4	3.3	3.2
Dry (13%)	3.1	3.2	3.4	3.3	3.2	3.2	3.0	3.3	3.5	3.7	3.6	3.3
Critical (25%)	3.2	3.2	3.4	3.3	3.1	2.9	2.9	3.1	3.4	3.6	3.5	3.4

Alternative 4 H2 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	4.3	4.6	5.0	5.0	5.4	4.9	4.5	4.4	4.5	4.7	4.6	4.6
20%	4.2	4.3	4.5	4.8	5.0	4.7	4.1	4.2	4.4	4.6	4.5	4.4
30%	4.1	4.2	4.4	4.6	4.5	4.3	4.1	4.2	4.4	4.6	4.5	4.3
40%	4.1	4.2	4.3	4.4	4.3	4.2	4.0	4.1	4.3	4.6	4.5	4.3
50%	4.1	4.1	4.3	4.4	4.2	4.1	3.9	4.1	4.3	4.5	4.4	4.3
60%	4.1	4.0	4.2	4.3	4.1	4.1	3.9	4.1	4.2	4.5	4.4	4.3
70%	4.0	4.0	4.2	4.2	4.1	4.0	3.9	4.0	4.2	4.4	4.3	4.2
80%	4.0	4.0	4.1	4.2	4.0	3.9	3.9	4.0	4.2	4.4	4.3	4.1
90%	3.9	3.9	4.0	4.1	3.9	3.8	3.7	3.9	4.1	4.3	4.2	4.1
Long Term												
Full Simulation Period[a]	4.1	4.2	4.4	4.5	4.5	4.2	4.0	4.1	4.3	4.5	4.4	4.3
Water Year Types[b]												
Wet (31%)	4.2	4.6	4.9	4.8	5.1	4.9	4.4	4.3	4.5	4.7	4.6	4.6
Above Normal (25%)	4.0	4.0	4.3	5.0	5.1	4.5	4.1	4.1	4.1	4.4	4.3	4.1
Below Normal (6%)	4.0	4.0	4.0	4.5	4.3	4.1	3.9	4.0	4.1	4.2	4.2	4.1
Dry (13%)	4.1	4.1	4.2	4.2	4.1	4.1	3.9	4.1	4.4	4.5	4.4	4.2
Critical (25%)	4.1	4.1	4.2	4.2	4.0	3.8	3.8	4.0	4.2	4.5	4.4	4.3

Alternative 4 H2 (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.9	0.8	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.9
20%	0.9	0.8	0.8	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.9	0.9
30%	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.9	0.9
40%	0.9	0.9	0.9	0.9	0.8	0.9	0.9	0.9	0.9	0.8	0.9	0.9
50%	0.9	0.9	0.9	0.8	0.9	0.8	1.0	0.9	0.8	0.8	0.9	0.9
60%	1.0	0.9	0.9	0.9	0.8	0.8	0.9	0.9	0.8	0.8	0.9	0.9
70%	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.9
80%	0.9	0.9	0.9	1.0	0.9	0.9	1.0	0.8	0.8	0.8	0.9	0.9
90%	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.9	0.9
Long Term												
Full Simulation Period[a]	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.9
Water Year Types[b]												
Wet (31%)	0.9	0.8	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.9	0.8
Above Normal (25%)	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.9
Below Normal (6%)	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.8	0.9	0.8	0.8	0.9
Dry (13%)	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.9
Critical (25%)	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.9

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-32-1-7. Sacramento River at Rio Vista, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	3.4	3.8	4.1	4.1	4.5	4.0	3.7	3.6	3.7	3.9	3.8	3.7
20%	3.2	3.5	3.7	3.9	4.1	3.8	3.2	3.3	3.6	3.8	3.7	3.5
30%	3.2	3.3	3.5	3.7	3.6	3.4	3.2	3.3	3.5	3.7	3.6	3.5
40%	3.2	3.3	3.5	3.5	3.5	3.4	3.1	3.3	3.5	3.7	3.6	3.4
50%	3.1	3.2	3.5	3.5	3.3	3.3	3.0	3.2	3.5	3.7	3.6	3.4
60%	3.1	3.2	3.3	3.4	3.3	3.2	3.0	3.2	3.4	3.6	3.5	3.4
70%	3.1	3.2	3.3	3.4	3.2	3.1	2.9	3.2	3.4	3.6	3.4	3.3
80%	3.0	3.1	3.3	3.2	3.1	2.9	2.9	3.1	3.3	3.6	3.4	3.2
90%	3.0	3.0	3.1	3.2	3.0	2.8	2.8	3.0	3.3	3.5	3.4	3.2
Long Term												
Full Simulation Period[a]	3.2	3.3	3.5	3.6	3.6	3.3	3.1	3.3	3.5	3.7	3.6	3.4
Water Year Types[b]												
Wet (31%)	3.3	3.7	4.0	4.0	4.2	4.0	3.4	3.5	3.8	3.9	3.7	3.8
Above Normal (25%)	3.0	3.1	3.4	4.1	4.2	3.6	3.2	3.3	3.3	3.5	3.5	3.2
Below Normal (6%)	3.1	3.2	3.1	3.6	3.5	3.3	2.9	3.1	3.2	3.4	3.3	3.2
Dry (13%)	3.1	3.2	3.4	3.3	3.2	3.2	3.0	3.3	3.5	3.7	3.6	3.3
Critical (25%)	3.2	3.2	3.4	3.3	3.1	2.9	2.9	3.1	3.4	3.6	3.5	3.4

Alternative 4 H3 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	4.3	4.6	4.9	5.0	5.4	4.9	4.5	4.4	4.5	4.7	4.6	4.7
20%	4.2	4.3	4.5	4.8	5.0	4.7	4.1	4.2	4.5	4.6	4.5	4.4
30%	4.1	4.2	4.4	4.6	4.5	4.3	4.1	4.2	4.4	4.6	4.5	4.4
40%	4.1	4.2	4.4	4.4	4.3	4.2	4.0	4.1	4.3	4.6	4.5	4.3
50%	4.1	4.1	4.3	4.4	4.2	4.1	3.9	4.1	4.3	4.5	4.4	4.3
60%	4.1	4.1	4.2	4.3	4.1	4.1	3.9	4.1	4.2	4.5	4.4	4.3
70%	4.0	4.0	4.2	4.2	4.1	4.0	3.8	4.0	4.2	4.5	4.3	4.2
80%	4.0	4.0	4.1	4.2	4.0	3.9	3.8	4.0	4.2	4.4	4.3	4.1
90%	3.9	3.9	4.0	4.1	3.9	3.7	3.7	3.9	4.1	4.3	4.2	4.1
Long Term												
Full Simulation Period[a]	4.1	4.2	4.4	4.5	4.4	4.2	4.0	4.1	4.3	4.5	4.4	4.3
Water Year Types[b]												
Wet (31%)	4.2	4.6	4.9	4.8	5.1	4.9	4.4	4.3	4.5	4.7	4.6	4.7
Above Normal (25%)	4.0	4.0	4.3	5.0	5.1	4.5	4.1	4.1	4.1	4.4	4.3	4.2
Below Normal (6%)	4.0	4.1	4.0	4.5	4.3	4.1	3.9	4.0	4.1	4.2	4.2	4.1
Dry (13%)	4.1	4.1	4.2	4.2	4.1	4.0	3.9	4.1	4.4	4.6	4.4	4.2
Critical (25%)	4.1	4.1	4.2	4.2	4.0	3.8	3.8	4.0	4.2	4.5	4.4	4.3

Alternative 4 H3 (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.9	0.8	0.9	0.8	0.9	0.9	0.9	0.8	0.8	0.8	0.8	1.0
20%	1.0	0.8	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.9	0.9
30%	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
40%	0.9	0.9	0.9	0.8	0.8	0.8	0.9	0.8	0.9	0.8	0.9	0.9
50%	0.9	0.9	0.9	0.8	0.9	0.8	0.9	0.9	0.8	0.8	0.9	0.9
60%	1.0	0.9	0.9	0.9	0.8	0.8	0.9	0.9	0.8	0.9	0.9	0.9
70%	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.9
80%	0.9	0.9	0.9	1.0	0.9	0.9	0.9	0.8	0.8	0.8	0.9	0.9
90%	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.9	0.9
Long Term												
Full Simulation Period[a]	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.9
Water Year Types[b]												
Wet (31%)	0.9	0.8	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.9	0.9
Above Normal (25%)	1.0	0.9	0.9	0.8	0.9	0.9	0.8	0.8	0.8	0.9	0.9	0.9
Below Normal (6%)	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.8	0.9	0.8	0.8	0.9
Dry (13%)	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Critical (25%)	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.9

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-32-1-8. Sacramento River at Rio Vista, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	3.4	3.8	4.1	4.1	4.5	4.0	3.7	3.6	3.7	3.9	3.8	3.7
20%	3.2	3.5	3.7	3.9	4.1	3.8	3.2	3.3	3.6	3.8	3.7	3.5
30%	3.2	3.3	3.5	3.7	3.6	3.4	3.2	3.3	3.5	3.7	3.6	3.5
40%	3.2	3.3	3.5	3.5	3.5	3.4	3.1	3.3	3.5	3.7	3.6	3.4
50%	3.1	3.2	3.5	3.5	3.3	3.3	3.0	3.2	3.5	3.7	3.6	3.4
60%	3.1	3.2	3.3	3.4	3.3	3.2	3.0	3.2	3.4	3.6	3.5	3.4
70%	3.1	3.2	3.3	3.4	3.2	3.1	2.9	3.2	3.4	3.6	3.4	3.3
80%	3.0	3.1	3.3	3.2	3.1	2.9	2.9	3.1	3.3	3.6	3.4	3.2
90%	3.0	3.0	3.1	3.2	3.0	2.8	2.8	3.0	3.3	3.5	3.4	3.2
Long Term												
Full Simulation Period[a]	3.2	3.3	3.5	3.6	3.6	3.3	3.1	3.3	3.5	3.7	3.6	3.4
Water Year Types[b]												
Wet (31%)	3.3	3.7	4.0	4.0	4.2	4.0	3.4	3.5	3.8	3.9	3.7	3.8
Above Normal (25%)	3.0	3.1	3.4	4.1	4.2	3.6	3.2	3.3	3.3	3.5	3.5	3.2
Below Normal (6%)	3.1	3.2	3.1	3.6	3.5	3.3	2.9	3.1	3.2	3.4	3.3	3.2
Dry (13%)	3.1	3.2	3.4	3.3	3.2	3.2	3.0	3.3	3.5	3.7	3.6	3.3
Critical (25%)	3.2	3.2	3.4	3.3	3.1	2.9	2.9	3.1	3.4	3.6	3.5	3.4

Alternative 4 H4 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	4.3	4.6	4.9	5.0	5.4	4.9	4.5	4.4	4.5	4.7	4.6	4.6
20%	4.2	4.3	4.5	4.8	5.0	4.7	4.1	4.2	4.4	4.6	4.5	4.4
30%	4.1	4.2	4.4	4.6	4.5	4.3	4.1	4.2	4.4	4.6	4.5	4.4
40%	4.1	4.2	4.3	4.4	4.3	4.2	4.0	4.1	4.3	4.6	4.5	4.3
50%	4.1	4.1	4.3	4.4	4.2	4.1	3.9	4.1	4.3	4.5	4.4	4.3
60%	4.1	4.1	4.2	4.3	4.1	4.1	3.9	4.1	4.2	4.5	4.4	4.3
70%	4.0	4.0	4.2	4.2	4.1	4.0	3.9	4.0	4.2	4.4	4.3	4.2
80%	4.0	4.0	4.1	4.2	4.0	3.9	3.9	4.0	4.2	4.4	4.3	4.1
90%	3.9	3.9	4.0	4.1	3.9	3.7	3.7	3.9	4.1	4.3	4.2	4.1
Long Term												
Full Simulation Period[a]	4.1	4.2	4.4	4.5	4.5	4.2	4.0	4.1	4.3	4.5	4.4	4.3
Water Year Types[b]												
Wet (31%)	4.2	4.5	4.9	4.8	5.1	4.9	4.4	4.3	4.5	4.7	4.6	4.7
Above Normal (25%)	4.0	4.0	4.3	5.0	5.1	4.5	4.1	4.1	4.1	4.4	4.3	4.2
Below Normal (6%)	4.0	4.1	4.0	4.5	4.3	4.1	3.9	4.0	4.1	4.2	4.2	4.1
Dry (13%)	4.1	4.1	4.2	4.2	4.1	4.1	3.9	4.1	4.4	4.5	4.4	4.2
Critical (25%)	4.1	4.1	4.2	4.2	4.0	3.8	3.8	4.0	4.2	4.5	4.4	4.3

Alternative 4 H4 (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.9	0.8	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.9
20%	1.0	0.8	0.8	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.9	0.9
30%	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.9	0.9	0.9
40%	0.9	0.9	0.9	0.8	0.8	0.9	0.9	0.9	0.9	0.8	0.9	0.9
50%	0.9	0.9	0.9	0.8	0.9	0.8	1.0	0.9	0.8	0.8	0.9	0.9
60%	1.0	0.9	0.9	0.9	0.8	0.8	0.9	0.9	0.8	0.8	0.9	0.9
70%	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.9
80%	0.9	0.9	0.9	0.9	0.9	0.9	1.0	0.8	0.8	0.8	0.9	0.9
90%	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.9	0.9
Long Term												
Full Simulation Period[a]	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.9
Water Year Types[b]												
Wet (31%)	0.9	0.8	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.9	0.9
Above Normal (25%)	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.9
Below Normal (6%)	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.8	0.9	0.8	0.8	0.9
Dry (13%)	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.9
Critical (25%)	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.9

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-32-1-9. Sacramento River at Rio Vista, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	3.4	3.8	4.1	4.1	4.5	4.0	3.7	3.6	3.7	3.9	3.8	3.7
20%	3.2	3.5	3.7	3.9	4.1	3.8	3.2	3.3	3.6	3.8	3.7	3.5
30%	3.2	3.3	3.5	3.7	3.6	3.4	3.2	3.3	3.5	3.7	3.6	3.5
40%	3.2	3.3	3.5	3.5	3.5	3.4	3.1	3.3	3.5	3.7	3.6	3.4
50%	3.1	3.2	3.5	3.5	3.3	3.3	3.0	3.2	3.5	3.7	3.6	3.4
60%	3.1	3.2	3.3	3.4	3.3	3.2	3.0	3.2	3.4	3.6	3.5	3.4
70%	3.1	3.2	3.3	3.4	3.2	3.1	2.9	3.2	3.4	3.6	3.4	3.3
80%	3.0	3.1	3.3	3.2	3.1	2.9	2.9	3.1	3.3	3.6	3.4	3.2
90%	3.0	3.0	3.1	3.2	3.0	2.8	2.8	3.0	3.3	3.5	3.4	3.2
Long Term												
Full Simulation Period[a]	3.2	3.3	3.5	3.6	3.6	3.3	3.1	3.3	3.5	3.7	3.6	3.4
Water Year Types[b]												
Wet (31%)	3.3	3.7	4.0	4.0	4.2	4.0	3.4	3.5	3.8	3.9	3.7	3.8
Above Normal (25%)	3.0	3.1	3.4	4.1	4.2	3.6	3.2	3.3	3.3	3.5	3.5	3.2
Below Normal (6%)	3.1	3.2	3.1	3.6	3.5	3.3	2.9	3.1	3.2	3.4	3.3	3.2
Dry (13%)	3.1	3.2	3.4	3.3	3.2	3.2	3.0	3.3	3.5	3.7	3.6	3.3
Critical (25%)	3.2	3.2	3.4	3.3	3.1	2.9	2.9	3.1	3.4	3.6	3.5	3.4

Alternative 5 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	4.3	4.6	5.0	5.0	5.4	4.9	4.6	4.4	4.5	4.7	4.6	4.6
20%	4.2	4.3	4.5	4.8	5.0	4.7	4.1	4.2	4.4	4.6	4.5	4.4
30%	4.1	4.2	4.4	4.6	4.5	4.3	4.1	4.2	4.4	4.6	4.5	4.4
40%	4.1	4.2	4.3	4.4	4.3	4.2	4.0	4.1	4.4	4.6	4.5	4.3
50%	4.1	4.1	4.3	4.4	4.2	4.1	3.9	4.1	4.3	4.5	4.4	4.3
60%	4.0	4.1	4.2	4.3	4.1	4.1	3.9	4.1	4.2	4.5	4.4	4.3
70%	4.0	4.0	4.2	4.2	4.1	4.0	3.8	4.0	4.2	4.5	4.3	4.2
80%	4.0	4.0	4.1	4.2	4.0	3.9	3.8	4.0	4.2	4.4	4.2	4.1
90%	3.9	3.9	4.0	4.1	3.9	3.7	3.7	3.9	4.1	4.3	4.2	4.1
Long Term												
Full Simulation Period[a]	4.1	4.2	4.4	4.5	4.5	4.3	4.0	4.1	4.3	4.5	4.4	4.3
Water Year Types[b]												
Wet (31%)	4.2	4.6	4.9	4.9	5.1	4.9	4.4	4.3	4.6	4.7	4.6	4.7
Above Normal (25%)	4.0	4.0	4.3	5.0	5.1	4.5	4.1	4.1	4.1	4.4	4.3	4.2
Below Normal (6%)	4.0	4.1	4.0	4.5	4.3	4.1	3.9	4.0	4.1	4.2	4.2	4.1
Dry (13%)	4.1	4.1	4.2	4.2	4.1	4.1	3.9	4.1	4.4	4.6	4.4	4.2
Critical (25%)	4.1	4.1	4.2	4.2	4.0	3.8	3.8	4.0	4.2	4.5	4.4	4.3

Alternative 5 (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.9	0.8	0.9	0.9	1.0	0.9	0.9	0.8	0.8	0.8	0.8	0.9
20%	0.9	0.8	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.9	1.0
30%	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
40%	0.9	0.9	0.9	0.9	0.8	0.9	0.9	0.8	0.9	0.9	0.9	0.9
50%	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.9
60%	0.9	0.9	0.9	0.9	0.8	0.9	0.9	0.9	0.8	0.9	0.9	0.9
70%	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.9
80%	0.9	0.9	0.9	1.0	0.9	0.9	0.9	0.8	0.9	0.8	0.9	0.9
90%	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Long Term												
Full Simulation Period[a]	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.9
Water Year Types[b]												
Wet (31%)	0.9	0.8	0.9	0.9	0.9	1.0	0.9	0.8	0.8	0.8	0.9	0.9
Above Normal (25%)	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.9	0.9	0.9	0.9
Below Normal (6%)	0.9	0.9	0.9	0.8	0.8	0.9	0.9	0.8	0.9	0.8	0.8	0.9
Dry (13%)	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.9	0.9	0.9
Critical (25%)	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.9

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-32-1-10. Sacramento River at Rio Vista, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	3.4	3.8	4.1	4.1	4.5	4.0	3.7	3.6	3.7	3.9	3.8	3.7
20%	3.2	3.5	3.7	3.9	4.1	3.8	3.2	3.3	3.6	3.8	3.7	3.5
30%	3.2	3.3	3.5	3.7	3.6	3.4	3.2	3.3	3.5	3.7	3.6	3.5
40%	3.2	3.3	3.5	3.5	3.5	3.4	3.1	3.3	3.5	3.7	3.6	3.4
50%	3.1	3.2	3.5	3.5	3.3	3.3	3.0	3.2	3.5	3.7	3.6	3.4
60%	3.1	3.2	3.3	3.4	3.3	3.2	3.0	3.2	3.4	3.6	3.5	3.4
70%	3.1	3.2	3.3	3.4	3.2	3.1	2.9	3.2	3.4	3.6	3.4	3.3
80%	3.0	3.1	3.3	3.2	3.1	2.9	2.9	3.1	3.3	3.6	3.4	3.2
90%	3.0	3.0	3.1	3.2	3.0	2.8	2.8	3.0	3.3	3.5	3.4	3.2
Long Term												
Full Simulation Period[a]	3.2	3.3	3.5	3.6	3.6	3.3	3.1	3.3	3.5	3.7	3.6	3.4
Water Year Types[b]												
Wet (31%)	3.3	3.7	4.0	4.0	4.2	4.0	3.4	3.5	3.8	3.9	3.7	3.8
Above Normal (25%)	3.0	3.1	3.4	4.1	4.2	3.6	3.2	3.3	3.3	3.5	3.5	3.2
Below Normal (6%)	3.1	3.2	3.1	3.6	3.5	3.3	2.9	3.1	3.2	3.4	3.3	3.2
Dry (13%)	3.1	3.2	3.4	3.3	3.2	3.2	3.0	3.3	3.5	3.7	3.6	3.3
Critical (25%)	3.2	3.2	3.4	3.3	3.1	2.9	2.9	3.1	3.4	3.6	3.5	3.4

Alternative 6A,6B,6C (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	4.3	4.6	5.0	5.0	5.4	4.9	4.5	4.4	4.5	4.7	4.6	4.6
20%	4.2	4.4	4.5	4.8	5.0	4.7	4.1	4.2	4.4	4.6	4.5	4.4
30%	4.1	4.3	4.4	4.6	4.5	4.2	4.1	4.2	4.4	4.6	4.5	4.4
40%	4.1	4.2	4.4	4.4	4.3	4.2	4.0	4.1	4.3	4.6	4.5	4.3
50%	4.1	4.1	4.3	4.4	4.3	4.1	3.9	4.1	4.3	4.5	4.4	4.3
60%	4.1	4.1	4.2	4.3	4.1	4.1	3.9	4.1	4.2	4.5	4.4	4.3
70%	4.0	4.0	4.2	4.2	4.1	4.0	3.8	4.0	4.2	4.4	4.3	4.2
80%	4.0	4.0	4.2	4.2	4.0	3.9	3.8	4.0	4.2	4.4	4.3	4.1
90%	3.9	3.9	4.0	4.1	3.9	3.8	3.7	3.9	4.1	4.3	4.2	4.1
Long Term												
Full Simulation Period[a]	4.1	4.2	4.4	4.5	4.5	4.2	4.0	4.1	4.3	4.5	4.4	4.3
Water Year Types[b]												
Wet (31%)	4.2	4.6	4.9	4.8	5.1	4.9	4.4	4.3	4.5	4.7	4.6	4.7
Above Normal (25%)	4.0	4.0	4.3	5.0	5.1	4.5	4.0	4.1	4.1	4.4	4.4	4.2
Below Normal (6%)	4.0	4.1	4.0	4.5	4.3	4.1	3.9	4.0	4.1	4.2	4.2	4.1
Dry (13%)	4.1	4.1	4.3	4.2	4.1	4.0	3.9	4.1	4.4	4.5	4.4	4.3
Critical (25%)	4.1	4.1	4.2	4.2	4.0	3.8	3.8	4.0	4.2	4.5	4.4	4.3

Alternative 6A,6B,6C (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.9	0.8	0.9	0.8	0.9	0.9	0.9	0.8	0.8	0.8	0.9	0.9
20%	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.9	0.9
30%	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.9
40%	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.8	0.9	0.8	0.9	0.9
50%	0.9	0.9	0.9	0.9	0.9	0.8	0.9	0.9	0.9	0.8	0.9	0.9
60%	1.0	0.9	0.9	0.9	0.8	0.8	0.9	0.9	0.8	0.8	0.9	0.9
70%	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.9
80%	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.9	0.8	0.9	0.9
90%	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.9	0.9
Long Term												
Full Simulation Period[a]	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.9	0.9
Water Year Types[b]												
Wet (31%)	0.9	0.8	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.9	0.9
Above Normal (25%)	0.9	0.9	0.9	0.8	0.9	0.9	0.8	0.8	0.8	0.8	0.9	0.9
Below Normal (6%)	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.8	0.9	0.8	0.9	0.9
Dry (13%)	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.9
Critical (25%)	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.9	0.9

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-32-1-11. Sacramento River at Rio Vista, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.4	3.8	4.1	4.1	4.5	4.0	3.7	3.6	3.7	3.9	3.8	3.7
20%	3.2	3.5	3.7	3.9	4.1	3.8	3.2	3.3	3.6	3.8	3.7	3.5
30%	3.2	3.3	3.5	3.7	3.6	3.4	3.2	3.3	3.5	3.7	3.6	3.5
40%	3.2	3.3	3.5	3.5	3.5	3.4	3.1	3.3	3.5	3.7	3.6	3.4
50%	3.1	3.2	3.5	3.5	3.3	3.3	3.0	3.2	3.5	3.7	3.6	3.4
60%	3.1	3.2	3.3	3.4	3.3	3.2	3.0	3.2	3.4	3.6	3.5	3.4
70%	3.1	3.2	3.3	3.4	3.2	3.1	2.9	3.2	3.4	3.6	3.4	3.3
80%	3.0	3.1	3.3	3.2	3.1	2.9	2.9	3.1	3.3	3.6	3.4	3.2
90%	3.0	3.0	3.1	3.2	3.0	2.8	2.8	3.0	3.3	3.5	3.4	3.2
Long Term												
Full Simulation Period[a]	3.2	3.3	3.5	3.6	3.6	3.3	3.1	3.3	3.5	3.7	3.6	3.4
Water Year Types[b]												
Wet (31%)	3.3	3.7	4.0	4.0	4.2	4.0	3.4	3.5	3.8	3.9	3.7	3.8
Above Normal (25%)	3.0	3.1	3.4	4.1	4.2	3.6	3.2	3.3	3.3	3.5	3.5	3.2
Below Normal (6%)	3.1	3.2	3.1	3.6	3.5	3.3	2.9	3.1	3.2	3.4	3.3	3.2
Dry (13%)	3.1	3.2	3.4	3.3	3.2	3.2	3.0	3.3	3.5	3.7	3.6	3.3
Critical (25%)	3.2	3.2	3.4	3.3	3.1	2.9	2.9	3.1	3.4	3.6	3.5	3.4

Alternative 7 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	4.6	5.0	5.0	5.4	4.9	4.5	4.4	4.5	4.7	4.6	4.7
20%	4.2	4.4	4.5	4.8	5.0	4.7	4.1	4.2	4.4	4.6	4.5	4.4
30%	4.1	4.3	4.4	4.6	4.5	4.3	4.1	4.1	4.4	4.6	4.5	4.4
40%	4.1	4.2	4.4	4.4	4.3	4.2	4.0	4.1	4.4	4.6	4.5	4.3
50%	4.1	4.1	4.3	4.4	4.3	4.1	3.9	4.1	4.3	4.5	4.4	4.3
60%	4.1	4.1	4.2	4.3	4.1	4.1	3.9	4.1	4.3	4.5	4.4	4.3
70%	4.0	4.1	4.2	4.2	4.1	4.0	3.8	4.0	4.2	4.4	4.3	4.2
80%	4.0	4.0	4.2	4.2	4.0	3.9	3.8	4.0	4.2	4.4	4.3	4.1
90%	3.9	3.9	4.0	4.1	3.9	3.8	3.7	3.9	4.1	4.3	4.2	4.1
Long Term												
Full Simulation Period[a]	4.1	4.2	4.4	4.5	4.5	4.2	4.0	4.1	4.3	4.5	4.4	4.3
Water Year Types[b]												
Wet (31%)	4.2	4.6	4.9	4.8	5.1	4.9	4.4	4.3	4.6	4.7	4.6	4.7
Above Normal (25%)	4.0	4.0	4.3	5.0	5.1	4.5	4.1	4.1	4.2	4.4	4.3	4.2
Below Normal (6%)	4.0	4.1	4.0	4.5	4.3	4.1	3.9	4.0	4.1	4.2	4.2	4.1
Dry (13%)	4.1	4.1	4.3	4.2	4.1	4.1	3.9	4.1	4.4	4.6	4.4	4.2
Critical (25%)	4.1	4.1	4.2	4.2	4.0	3.8	3.8	4.0	4.2	4.5	4.4	4.3

Alternative 7 (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.9	0.8	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	1.0
20%	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.9	1.0
30%	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.9	0.9	0.9	0.9
40%	0.9	0.9	0.9	0.9	0.8	0.9	0.9	0.8	0.9	0.9	0.9	0.9
50%	0.9	0.9	0.9	0.9	0.9	0.8	0.9	0.9	0.9	0.8	0.9	0.9
60%	1.0	0.9	0.9	0.9	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9
70%	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.9	0.9
80%	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.9	0.9
90%	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.9	0.9
Long Term												
Full Simulation Period[a]	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.9
Water Year Types[b]												
Wet (31%)	0.9	0.8	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.9	0.9
Above Normal (25%)	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.9	0.9	0.9
Below Normal (6%)	0.9	0.9	0.9	0.9	0.8	0.9	0.9	0.9	0.9	0.8	0.9	0.9
Dry (13%)	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.9	0.9	0.9
Critical (25%)	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.9	0.9

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-32-1-12. Sacramento River at Rio Vista, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	3.4	3.8	4.1	4.1	4.5	4.0	3.7	3.6	3.7	3.9	3.8	3.7
20%	3.2	3.5	3.7	3.9	4.1	3.8	3.2	3.3	3.6	3.8	3.7	3.5
30%	3.2	3.3	3.5	3.7	3.6	3.4	3.2	3.3	3.5	3.7	3.6	3.5
40%	3.2	3.3	3.5	3.5	3.5	3.4	3.1	3.3	3.5	3.7	3.6	3.4
50%	3.1	3.2	3.5	3.5	3.3	3.3	3.0	3.2	3.5	3.7	3.6	3.4
60%	3.1	3.2	3.3	3.4	3.3	3.2	3.0	3.2	3.4	3.6	3.5	3.4
70%	3.1	3.2	3.3	3.4	3.2	3.1	2.9	3.2	3.4	3.6	3.4	3.3
80%	3.0	3.1	3.3	3.2	3.1	2.9	2.9	3.1	3.3	3.6	3.4	3.2
90%	3.0	3.0	3.1	3.2	3.0	2.8	2.8	3.0	3.3	3.5	3.4	3.2
Long Term												
Full Simulation Period[a]	3.2	3.3	3.5	3.6	3.6	3.3	3.1	3.3	3.5	3.7	3.6	3.4
Water Year Types[b]												
Wet (31%)	3.3	3.7	4.0	4.0	4.2	4.0	3.4	3.5	3.8	3.9	3.7	3.8
Above Normal (25%)	3.0	3.1	3.4	4.1	4.2	3.6	3.2	3.3	3.3	3.5	3.5	3.2
Below Normal (6%)	3.1	3.2	3.1	3.6	3.5	3.3	2.9	3.1	3.2	3.4	3.3	3.2
Dry (13%)	3.1	3.2	3.4	3.3	3.2	3.2	3.0	3.3	3.5	3.7	3.6	3.3
Critical (25%)	3.2	3.2	3.4	3.3	3.1	2.9	2.9	3.1	3.4	3.6	3.5	3.4

Alternative 8 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	4.3	4.6	5.0	5.0	5.4	4.9	4.6	4.4	4.5	4.7	4.6	4.6
20%	4.2	4.4	4.5	4.8	5.0	4.7	4.1	4.2	4.4	4.6	4.5	4.4
30%	4.1	4.3	4.4	4.6	4.5	4.3	4.1	4.2	4.4	4.6	4.5	4.4
40%	4.1	4.2	4.4	4.4	4.3	4.2	4.0	4.1	4.3	4.5	4.5	4.3
50%	4.1	4.1	4.3	4.4	4.3	4.2	3.9	4.1	4.3	4.5	4.4	4.3
60%	4.0	4.1	4.2	4.3	4.2	4.1	3.9	4.1	4.3	4.5	4.4	4.3
70%	4.0	4.0	4.2	4.3	4.1	4.0	3.9	4.0	4.2	4.4	4.3	4.2
80%	4.0	4.0	4.2	4.2	4.0	3.9	3.8	4.0	4.2	4.4	4.3	4.1
90%	3.9	3.9	4.0	4.1	4.0	3.8	3.7	3.9	4.1	4.3	4.2	4.1
Long Term												
Full Simulation Period[a]	4.1	4.2	4.4	4.5	4.5	4.3	4.0	4.1	4.3	4.5	4.4	4.3
Water Year Types[b]												
Wet (31%)	4.2	4.6	4.9	4.9	5.1	4.9	4.4	4.4	4.6	4.7	4.6	4.7
Above Normal (25%)	4.0	4.0	4.3	5.0	5.1	4.5	4.1	4.1	4.2	4.4	4.3	4.2
Below Normal (6%)	4.0	4.1	4.0	4.5	4.3	4.2	3.9	4.0	4.1	4.2	4.2	4.1
Dry (13%)	4.1	4.1	4.3	4.2	4.1	4.1	3.9	4.1	4.4	4.5	4.4	4.2
Critical (25%)	4.1	4.1	4.2	4.2	4.0	3.8	3.8	4.0	4.2	4.5	4.4	4.3

Alternative 8 (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.9	0.8	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.9
20%	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.9
30%	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.9	0.9
40%	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.9	0.9
50%	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.9	0.9
60%	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.9	0.9
70%	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.9
80%	0.9	0.9	0.9	0.9	0.9	1.0	1.0	0.9	0.9	0.8	0.9	0.9
90%	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.9	0.9
Long Term												
Full Simulation Period[a]	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.9
Water Year Types[b]												
Wet (31%)	0.9	0.8	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.9	0.9
Above Normal (25%)	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.9	0.9
Below Normal (6%)	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.9	0.9
Dry (13%)	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.9
Critical (25%)	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.9	0.9

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-32-1-13. Sacramento River at Rio Vista, Monthly Averaged Daily Maximum Elevation

Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	3.4	3.8	4.1	4.1	4.5	4.0	3.7	3.6	3.7	3.9	3.8	3.7
20%	3.2	3.5	3.7	3.9	4.1	3.8	3.2	3.3	3.6	3.8	3.7	3.5
30%	3.2	3.3	3.5	3.7	3.6	3.4	3.2	3.3	3.5	3.7	3.6	3.5
40%	3.2	3.3	3.5	3.5	3.5	3.4	3.1	3.3	3.5	3.7	3.6	3.4
50%	3.1	3.2	3.5	3.5	3.3	3.3	3.0	3.2	3.5	3.7	3.6	3.4
60%	3.1	3.2	3.3	3.4	3.3	3.2	3.0	3.2	3.4	3.6	3.5	3.4
70%	3.1	3.2	3.3	3.4	3.2	3.1	2.9	3.2	3.4	3.6	3.4	3.3
80%	3.0	3.1	3.3	3.2	3.1	2.9	2.9	3.1	3.3	3.6	3.4	3.2
90%	3.0	3.0	3.1	3.2	3.0	2.8	2.8	3.0	3.3	3.5	3.4	3.2
Long Term												
Full Simulation Period[a]	3.2	3.3	3.5	3.6	3.6	3.3	3.1	3.3	3.5	3.7	3.6	3.4
Water Year Types[b]												
Wet (31%)	3.3	3.7	4.0	4.0	4.2	4.0	3.4	3.5	3.8	3.9	3.7	3.8
Above Normal (25%)	3.0	3.1	3.4	4.1	4.2	3.6	3.2	3.3	3.3	3.5	3.5	3.2
Below Normal (6%)	3.1	3.2	3.1	3.6	3.5	3.3	2.9	3.1	3.2	3.4	3.3	3.2
Dry (13%)	3.1	3.2	3.4	3.3	3.2	3.2	3.0	3.3	3.5	3.7	3.6	3.3
Critical (25%)	3.2	3.2	3.4	3.3	3.1	2.9	2.9	3.1	3.4	3.6	3.5	3.4

Alternative 9 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	4.3	4.7	5.0	5.1	5.4	4.9	4.6	4.4	4.5	4.8	4.6	4.7
20%	4.2	4.4	4.5	4.8	5.1	4.8	4.1	4.2	4.5	4.6	4.5	4.5
30%	4.1	4.3	4.4	4.6	4.5	4.3	4.1	4.2	4.4	4.6	4.5	4.4
40%	4.1	4.2	4.3	4.4	4.3	4.3	4.0	4.1	4.4	4.6	4.5	4.4
50%	4.1	4.1	4.3	4.4	4.2	4.2	3.9	4.1	4.4	4.6	4.5	4.3
60%	4.1	4.1	4.2	4.3	4.2	4.1	3.9	4.1	4.3	4.5	4.4	4.3
70%	4.0	4.1	4.2	4.2	4.1	4.0	3.9	4.1	4.2	4.5	4.4	4.3
80%	4.0	4.1	4.1	4.2	4.0	3.9	3.8	4.0	4.2	4.5	4.3	4.2
90%	3.9	3.9	4.0	4.1	3.9	3.8	3.7	3.9	4.2	4.3	4.3	4.1
Long Term												
Full Simulation Period[a]	4.1	4.2	4.4	4.5	4.5	4.3	4.0	4.2	4.4	4.5	4.5	4.4
Water Year Types[b]												
Wet (31%)	4.3	4.6	4.9	4.9	5.1	4.9	4.4	4.4	4.6	4.7	4.6	4.7
Above Normal (25%)	4.0	4.0	4.3	5.1	5.2	4.6	4.1	4.1	4.2	4.4	4.4	4.2
Below Normal (6%)	4.0	4.1	4.0	4.5	4.3	4.2	3.9	4.0	4.1	4.2	4.2	4.1
Dry (13%)	4.1	4.1	4.2	4.2	4.1	4.1	3.9	4.2	4.4	4.6	4.5	4.3
Critical (25%)	4.1	4.2	4.3	4.2	4.0	3.8	3.8	4.0	4.3	4.5	4.4	4.3

Alternative 9 (LLT) minus Existing Condition

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.9	0.8	0.9	0.9	1.0	1.0	0.9	0.9	0.9	0.9	0.9	1.0
20%	1.0	0.9	0.9	0.9	1.0	1.0	0.9	0.9	0.9	0.9	0.9	1.0
30%	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
40%	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.9	0.9	0.9	0.9
50%	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
60%	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
70%	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.9	0.9
80%	1.0	0.9	0.9	0.9	0.9	1.0	1.0	0.9	0.9	0.9	0.9	0.9
90%	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.0
Long Term												
Full Simulation Period[a]	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Water Year Types[b]												
Wet (31%)	0.9	0.9	0.9	0.9	1.0	1.0	0.9	0.8	0.8	0.8	0.9	1.0
Above Normal (25%)	0.9	0.9	0.9	0.9	1.0	1.0	0.9	0.8	0.9	0.9	0.9	1.0
Below Normal (6%)	0.9	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.9	0.9
Dry (13%)	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Critical (25%)	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-32-1-14. Sacramento River at Rio Vista, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.8	5.3	5.6	5.6	6.0	5.4	5.1	5.0	5.1	5.4	5.3	5.3
20%	4.7	4.9	5.2	5.4	5.7	5.3	4.7	4.8	5.1	5.3	5.1	5.0
30%	4.7	4.9	5.0	5.2	5.1	4.9	4.7	4.8	5.0	5.3	5.1	5.0
40%	4.7	4.8	4.9	5.0	4.9	4.8	4.6	4.7	5.0	5.2	5.1	4.9
50%	4.6	4.7	4.9	5.0	4.8	4.7	4.5	4.7	5.0	5.2	5.1	4.9
60%	4.6	4.7	4.8	4.9	4.8	4.7	4.4	4.7	4.9	5.2	5.0	4.9
70%	4.6	4.7	4.8	4.8	4.7	4.6	4.4	4.7	4.9	5.1	4.9	4.8
80%	4.6	4.7	4.8	4.8	4.6	4.4	4.4	4.6	4.9	5.1	4.9	4.7
90%	4.5	4.5	4.6	4.7	4.5	4.3	4.3	4.5	4.8	5.0	4.9	4.7
Long Term												
Full Simulation Period[a]	4.7	4.8	5.0	5.1	5.0	4.8	4.6	4.8	5.0	5.2	5.1	4.9
Water Year Types[b]												
Wet (31%)	4.8	5.2	5.5	5.5	5.7	5.4	4.9	5.0	5.2	5.4	5.2	5.3
Above Normal (25%)	4.5	4.6	4.9	5.6	5.7	5.1	4.7	4.7	4.8	5.1	5.0	4.8
Below Normal (6%)	4.6	4.7	4.6	5.1	4.9	4.7	4.4	4.6	4.7	4.9	4.8	4.7
Dry (13%)	4.6	4.7	4.9	4.8	4.7	4.6	4.5	4.8	5.0	5.2	5.1	4.8
Critical (25%)	4.7	4.7	4.9	4.8	4.6	4.4	4.4	4.7	4.9	5.2	5.0	4.9

Alternative 1A,1B,1C (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	4.6	4.9	5.0	5.4	4.9	4.5	4.4	4.5	4.7	4.6	4.6
20%	4.2	4.3	4.5	4.8	5.0	4.7	4.1	4.2	4.4	4.6	4.5	4.4
30%	4.1	4.2	4.4	4.6	4.5	4.2	4.1	4.2	4.4	4.6	4.5	4.3
40%	4.1	4.2	4.3	4.4	4.3	4.2	4.0	4.1	4.3	4.6	4.5	4.3
50%	4.1	4.2	4.3	4.4	4.2	4.1	3.9	4.1	4.3	4.5	4.4	4.3
60%	4.1	4.1	4.2	4.3	4.1	4.1	3.9	4.1	4.2	4.5	4.4	4.3
70%	4.0	4.0	4.2	4.2	4.1	4.0	3.8	4.0	4.2	4.4	4.3	4.2
80%	4.0	4.0	4.1	4.1	4.0	3.9	3.8	3.9	4.2	4.4	4.3	4.1
90%	4.0	3.9	4.0	4.0	3.9	3.8	3.7	3.9	4.1	4.3	4.2	4.1
Long Term												
Full Simulation Period[a]	4.1	4.2	4.4	4.5	4.4	4.2	4.0	4.1	4.3	4.5	4.4	4.3
Water Year Types[b]												
Wet (31%)	4.2	4.6	4.9	4.8	5.1	4.9	4.4	4.3	4.6	4.7	4.6	4.6
Above Normal (25%)	4.0	4.0	4.3	5.0	5.1	4.5	4.1	4.1	4.2	4.4	4.3	4.1
Below Normal (6%)	4.1	4.1	4.0	4.5	4.2	4.1	3.8	3.9	4.1	4.2	4.2	4.1
Dry (13%)	4.1	4.1	4.2	4.2	4.1	4.0	3.9	4.1	4.4	4.6	4.4	4.2
Critical (25%)	4.1	4.1	4.2	4.2	4.0	3.8	3.8	4.0	4.2	4.5	4.4	4.3

Alternative 1A,1B,1C (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.5	-0.6	-0.6	-0.7	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.7
20%	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6	-0.7	-0.7	-0.7	-0.6	-0.6
30%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
40%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
50%	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
60%	-0.5	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
70%	-0.5	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
80%	-0.5	-0.7	-0.6	-0.7	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
90%	-0.5	-0.6	-0.6	-0.6	-0.6	-0.5	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
Long Term												
Full Simulation Period[a]	-0.5	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
Water Year Types[b]												
Wet (31%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.6	-0.6	-0.6	-0.7	-0.6	-0.7
Above Normal (25%)	-0.5	-0.6	-0.6	-0.7	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
Below Normal (6%)	-0.5	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
Dry (13%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
Critical (25%)	-0.5	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-32-1-15. Sacramento River at Rio Vista, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.8	5.3	5.6	5.6	6.0	5.4	5.1	5.0	5.1	5.4	5.3	5.3
20%	4.7	4.9	5.2	5.4	5.7	5.3	4.7	4.8	5.1	5.3	5.1	5.0
30%	4.7	4.9	5.0	5.2	5.1	4.9	4.7	4.8	5.0	5.3	5.1	5.0
40%	4.7	4.8	4.9	5.0	4.9	4.8	4.6	4.7	5.0	5.2	5.1	4.9
50%	4.6	4.7	4.9	5.0	4.8	4.7	4.5	4.7	5.0	5.2	5.1	4.9
60%	4.6	4.7	4.8	4.9	4.8	4.7	4.4	4.7	4.9	5.2	5.0	4.9
70%	4.6	4.7	4.8	4.8	4.7	4.6	4.4	4.7	4.9	5.1	4.9	4.8
80%	4.6	4.7	4.8	4.8	4.6	4.4	4.4	4.6	4.9	5.1	4.9	4.7
90%	4.5	4.5	4.6	4.7	4.5	4.3	4.3	4.5	4.8	5.0	4.9	4.7
Long Term												
Full Simulation Period[a]	4.7	4.8	5.0	5.1	5.0	4.8	4.6	4.8	5.0	5.2	5.1	4.9
Water Year Types[b]												
Wet (31%)	4.8	5.2	5.5	5.5	5.7	5.4	4.9	5.0	5.2	5.4	5.2	5.3
Above Normal (25%)	4.5	4.6	4.9	5.6	5.7	5.1	4.7	4.7	4.8	5.1	5.0	4.8
Below Normal (6%)	4.6	4.7	4.6	5.1	4.9	4.7	4.4	4.6	4.7	4.9	4.8	4.7
Dry (13%)	4.6	4.7	4.9	4.8	4.7	4.6	4.5	4.8	5.0	5.2	5.1	4.8
Critical (25%)	4.7	4.7	4.9	4.8	4.6	4.4	4.4	4.7	4.9	5.2	5.0	4.9

Alternative 2A,2B,2C (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	4.6	4.9	5.0	5.4	4.9	4.5	4.4	4.5	4.7	4.6	4.6
20%	4.2	4.3	4.5	4.8	5.0	4.7	4.1	4.2	4.4	4.6	4.5	4.4
30%	4.1	4.2	4.4	4.6	4.5	4.2	4.1	4.2	4.4	4.6	4.5	4.4
40%	4.1	4.2	4.4	4.4	4.3	4.2	4.0	4.1	4.3	4.6	4.5	4.3
50%	4.1	4.1	4.3	4.4	4.2	4.1	3.9	4.1	4.3	4.5	4.4	4.3
60%	4.0	4.1	4.2	4.3	4.1	4.1	3.9	4.1	4.2	4.5	4.4	4.3
70%	4.0	4.0	4.2	4.2	4.1	4.0	3.8	4.0	4.2	4.5	4.3	4.2
80%	4.0	4.0	4.1	4.2	4.0	3.9	3.8	3.9	4.2	4.4	4.3	4.1
90%	3.9	3.9	4.0	4.1	3.9	3.7	3.7	3.9	4.1	4.3	4.2	4.1
Long Term												
Full Simulation Period[a]	4.1	4.2	4.4	4.5	4.4	4.2	4.0	4.1	4.3	4.5	4.4	4.3
Water Year Types[b]												
Wet (31%)	4.2	4.5	4.9	4.8	5.1	4.9	4.4	4.3	4.6	4.7	4.6	4.7
Above Normal (25%)	4.0	4.0	4.3	5.0	5.1	4.5	4.0	4.1	4.1	4.4	4.3	4.2
Below Normal (6%)	4.0	4.1	4.0	4.5	4.2	4.1	3.9	3.9	4.1	4.2	4.2	4.1
Dry (13%)	4.1	4.1	4.2	4.2	4.1	4.0	3.9	4.1	4.4	4.6	4.4	4.2
Critical (25%)	4.1	4.1	4.2	4.2	4.0	3.8	3.8	4.0	4.2	4.5	4.4	4.3

Alternative 2A,2B,2C (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.7
20%	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
30%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
40%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
50%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
60%	-0.5	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
70%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
80%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
90%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
Long Term												
Full Simulation Period[a]	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
Water Year Types[b]												
Wet (31%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
Above Normal (25%)	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6
Below Normal (6%)	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6
Dry (13%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
Critical (25%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-32-1-16. Sacramento River at Rio Vista, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.8	5.3	5.6	5.6	6.0	5.4	5.1	5.0	5.1	5.4	5.3	5.3
20%	4.7	4.9	5.2	5.4	5.7	5.3	4.7	4.8	5.1	5.3	5.1	5.0
30%	4.7	4.9	5.0	5.2	5.1	4.9	4.7	4.8	5.0	5.3	5.1	5.0
40%	4.7	4.8	4.9	5.0	4.9	4.8	4.6	4.7	5.0	5.2	5.1	4.9
50%	4.6	4.7	4.9	5.0	4.8	4.7	4.5	4.7	5.0	5.2	5.1	4.9
60%	4.6	4.7	4.8	4.9	4.8	4.7	4.4	4.7	4.9	5.2	5.0	4.9
70%	4.6	4.7	4.8	4.8	4.7	4.6	4.4	4.7	4.9	5.1	4.9	4.8
80%	4.6	4.7	4.8	4.8	4.6	4.4	4.4	4.6	4.9	5.1	4.9	4.7
90%	4.5	4.5	4.6	4.7	4.5	4.3	4.3	4.5	4.8	5.0	4.9	4.7
Long Term												
Full Simulation Period[a]	4.7	4.8	5.0	5.1	5.0	4.8	4.6	4.8	5.0	5.2	5.1	4.9
Water Year Types[b]												
Wet (31%)	4.8	5.2	5.5	5.5	5.7	5.4	4.9	5.0	5.2	5.4	5.2	5.3
Above Normal (25%)	4.5	4.6	4.9	5.6	5.7	5.1	4.7	4.7	4.8	5.1	5.0	4.8
Below Normal (6%)	4.6	4.7	4.6	5.1	4.9	4.7	4.4	4.6	4.7	4.9	4.8	4.7
Dry (13%)	4.6	4.7	4.9	4.8	4.7	4.6	4.5	4.8	5.0	5.2	5.1	4.8
Critical (25%)	4.7	4.7	4.9	4.8	4.6	4.4	4.4	4.7	4.9	5.2	5.0	4.9

Alternative 3 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	4.6	5.0	5.0	5.4	4.9	4.5	4.4	4.5	4.7	4.6	4.6
20%	4.1	4.3	4.5	4.8	5.0	4.7	4.1	4.2	4.5	4.6	4.5	4.4
30%	4.1	4.2	4.4	4.6	4.5	4.3	4.1	4.2	4.4	4.6	4.5	4.3
40%	4.1	4.2	4.3	4.4	4.3	4.2	4.0	4.1	4.3	4.6	4.5	4.3
50%	4.1	4.1	4.3	4.4	4.2	4.1	3.9	4.1	4.3	4.5	4.4	4.3
60%	4.1	4.1	4.2	4.3	4.1	4.1	3.9	4.1	4.2	4.5	4.4	4.3
70%	4.0	4.0	4.2	4.2	4.1	4.0	3.8	4.0	4.2	4.5	4.3	4.2
80%	4.0	4.0	4.1	4.2	4.0	3.9	3.8	3.9	4.2	4.4	4.3	4.1
90%	4.0	3.9	4.0	4.1	3.9	3.8	3.7	3.9	4.1	4.3	4.2	4.1
Long Term												
Full Simulation Period[a]	4.1	4.2	4.4	4.5	4.5	4.3	4.0	4.1	4.3	4.5	4.4	4.3
Water Year Types[b]												
Wet (31%)	4.2	4.6	4.9	4.9	5.1	4.9	4.4	4.3	4.6	4.7	4.6	4.6
Above Normal (25%)	4.0	4.0	4.3	5.0	5.1	4.5	4.1	4.1	4.1	4.4	4.3	4.1
Below Normal (6%)	4.0	4.0	4.0	4.5	4.3	4.1	3.8	3.9	4.1	4.2	4.2	4.1
Dry (13%)	4.1	4.1	4.2	4.2	4.1	4.1	3.9	4.1	4.4	4.6	4.4	4.2
Critical (25%)	4.1	4.1	4.2	4.2	4.0	3.8	3.8	4.0	4.2	4.5	4.4	4.3

Alternative 3 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.5	-0.6	-0.6	-0.6	-0.5	-0.5	-0.6	-0.6	-0.6	-0.7	-0.7	-0.7
20%	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6	-0.7	-0.7	-0.7	-0.6	-0.6
30%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
40%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
50%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
60%	-0.5	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
70%	-0.5	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
80%	-0.5	-0.7	-0.6	-0.7	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
90%	-0.5	-0.6	-0.6	-0.6	-0.6	-0.5	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
Long Term												
Full Simulation Period[a]	-0.5	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
Water Year Types[b]												
Wet (31%)	-0.6	-0.6	-0.6	-0.6	-0.5	-0.5	-0.6	-0.6	-0.6	-0.7	-0.6	-0.7
Above Normal (25%)	-0.5	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6
Below Normal (6%)	-0.5	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
Dry (13%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
Critical (25%)	-0.5	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-32-1-17. Sacramento River at Rio Vista, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.8	5.3	5.6	5.6	6.0	5.4	5.1	5.0	5.1	5.4	5.3	5.3
20%	4.7	4.9	5.2	5.4	5.7	5.3	4.7	4.8	5.1	5.3	5.1	5.0
30%	4.7	4.9	5.0	5.2	5.1	4.9	4.7	4.8	5.0	5.3	5.1	5.0
40%	4.7	4.8	4.9	5.0	4.9	4.8	4.6	4.7	5.0	5.2	5.1	4.9
50%	4.6	4.7	4.9	5.0	4.8	4.7	4.5	4.7	5.0	5.2	5.1	4.9
60%	4.6	4.7	4.8	4.9	4.8	4.7	4.4	4.7	4.9	5.2	5.0	4.9
70%	4.6	4.7	4.8	4.8	4.7	4.6	4.4	4.7	4.9	5.1	4.9	4.8
80%	4.6	4.7	4.8	4.8	4.6	4.4	4.4	4.6	4.9	5.1	4.9	4.7
90%	4.5	4.5	4.6	4.7	4.5	4.3	4.3	4.5	4.8	5.0	4.9	4.7
Long Term												
Full Simulation Period[a]	4.7	4.8	5.0	5.1	5.0	4.8	4.6	4.8	5.0	5.2	5.1	4.9
Water Year Types[b]												
Wet (31%)	4.8	5.2	5.5	5.5	5.7	5.4	4.9	5.0	5.2	5.4	5.2	5.3
Above Normal (25%)	4.5	4.6	4.9	5.6	5.7	5.1	4.7	4.7	4.8	5.1	5.0	4.8
Below Normal (6%)	4.6	4.7	4.6	5.1	4.9	4.7	4.4	4.6	4.7	4.9	4.8	4.7
Dry (13%)	4.6	4.7	4.9	4.8	4.7	4.6	4.5	4.8	5.0	5.2	5.1	4.8
Critical (25%)	4.7	4.7	4.9	4.8	4.6	4.4	4.4	4.7	4.9	5.2	5.0	4.9

Alternative 4 H1 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	4.6	5.0	5.0	5.4	4.9	4.5	4.4	4.5	4.7	4.6	4.6
20%	4.2	4.3	4.5	4.8	5.0	4.7	4.1	4.2	4.5	4.6	4.5	4.4
30%	4.1	4.2	4.4	4.6	4.5	4.3	4.1	4.2	4.4	4.6	4.5	4.3
40%	4.1	4.2	4.4	4.4	4.3	4.2	4.0	4.1	4.3	4.6	4.5	4.3
50%	4.1	4.1	4.3	4.4	4.2	4.1	3.9	4.1	4.3	4.5	4.4	4.3
60%	4.0	4.0	4.2	4.3	4.1	4.1	3.9	4.1	4.2	4.5	4.4	4.3
70%	4.0	4.0	4.2	4.3	4.1	4.0	3.8	4.0	4.2	4.5	4.3	4.2
80%	4.0	4.0	4.1	4.2	4.0	3.9	3.8	4.0	4.2	4.4	4.3	4.1
90%	3.9	3.9	4.0	4.1	3.9	3.7	3.7	3.9	4.1	4.3	4.2	4.1
Long Term												
Full Simulation Period[a]	4.1	4.2	4.4	4.5	4.5	4.2	4.0	4.1	4.3	4.5	4.4	4.3
Water Year Types[b]												
Wet (31%)	4.2	4.6	4.9	4.8	5.1	4.9	4.4	4.3	4.5	4.7	4.6	4.6
Above Normal (25%)	4.0	4.0	4.3	5.0	5.1	4.5	4.1	4.1	4.1	4.4	4.3	4.1
Below Normal (6%)	4.0	4.0	4.0	4.5	4.3	4.1	3.9	4.0	4.1	4.2	4.2	4.1
Dry (13%)	4.1	4.1	4.3	4.2	4.1	4.0	3.9	4.1	4.4	4.6	4.4	4.2
Critical (25%)	4.1	4.1	4.2	4.2	4.0	3.8	3.8	4.0	4.2	4.5	4.4	4.3

Alternative 4 H1 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.6	-0.6	-0.6	-0.6	-0.5	-0.5	-0.6	-0.6	-0.7	-0.7	-0.7	-0.8
20%	-0.6	-0.6	-0.7	-0.6	-0.7	-0.6	-0.6	-0.7	-0.7	-0.7	-0.6	-0.6
30%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
40%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
50%	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
60%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
70%	-0.5	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
80%	-0.6	-0.7	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
90%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
Long Term												
Full Simulation Period[a]	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
Water Year Types[b]												
Wet (31%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.6	-0.6	-0.7	-0.7	-0.6	-0.7
Above Normal (25%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
Below Normal (6%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6
Dry (13%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
Critical (25%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-32-1-18. Sacramento River at Rio Vista, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.8	5.3	5.6	5.6	6.0	5.4	5.1	5.0	5.1	5.4	5.3	5.3
20%	4.7	4.9	5.2	5.4	5.7	5.3	4.7	4.8	5.1	5.3	5.1	5.0
30%	4.7	4.9	5.0	5.2	5.1	4.9	4.7	4.8	5.0	5.3	5.1	5.0
40%	4.7	4.8	4.9	5.0	4.9	4.8	4.6	4.7	5.0	5.2	5.1	4.9
50%	4.6	4.7	4.9	5.0	4.8	4.7	4.5	4.7	5.0	5.2	5.1	4.9
60%	4.6	4.7	4.8	4.9	4.8	4.7	4.4	4.7	4.9	5.2	5.0	4.9
70%	4.6	4.7	4.8	4.8	4.7	4.6	4.4	4.7	4.9	5.1	4.9	4.8
80%	4.6	4.7	4.8	4.8	4.6	4.4	4.4	4.6	4.9	5.1	4.9	4.7
90%	4.5	4.5	4.6	4.7	4.5	4.3	4.3	4.5	4.8	5.0	4.9	4.7
Long Term												
Full Simulation Period[a]	4.7	4.8	5.0	5.1	5.0	4.8	4.6	4.8	5.0	5.2	5.1	4.9
Water Year Types[b]												
Wet (31%)	4.8	5.2	5.5	5.5	5.7	5.4	4.9	5.0	5.2	5.4	5.2	5.3
Above Normal (25%)	4.5	4.6	4.9	5.6	5.7	5.1	4.7	4.7	4.8	5.1	5.0	4.8
Below Normal (6%)	4.6	4.7	4.6	5.1	4.9	4.7	4.4	4.6	4.7	4.9	4.8	4.7
Dry (13%)	4.6	4.7	4.9	4.8	4.7	4.6	4.5	4.8	5.0	5.2	5.1	4.8
Critical (25%)	4.7	4.7	4.9	4.8	4.6	4.4	4.4	4.7	4.9	5.2	5.0	4.9

Alternative 4 H2 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	4.6	5.0	5.0	5.4	4.9	4.5	4.4	4.5	4.7	4.6	4.6
20%	4.2	4.3	4.5	4.8	5.0	4.7	4.1	4.2	4.4	4.6	4.5	4.4
30%	4.1	4.2	4.4	4.6	4.5	4.3	4.1	4.2	4.4	4.6	4.5	4.3
40%	4.1	4.2	4.3	4.4	4.3	4.2	4.0	4.1	4.3	4.6	4.5	4.3
50%	4.1	4.1	4.3	4.4	4.2	4.1	3.9	4.1	4.3	4.5	4.4	4.3
60%	4.1	4.0	4.2	4.3	4.1	4.1	3.9	4.1	4.2	4.5	4.4	4.3
70%	4.0	4.0	4.2	4.2	4.1	4.0	3.9	4.0	4.2	4.4	4.3	4.2
80%	4.0	4.0	4.1	4.2	4.0	3.9	3.9	4.0	4.2	4.4	4.3	4.1
90%	3.9	3.9	4.0	4.1	3.9	3.8	3.7	3.9	4.1	4.3	4.2	4.1
Long Term												
Full Simulation Period[a]	4.1	4.2	4.4	4.5	4.5	4.2	4.0	4.1	4.3	4.5	4.4	4.3
Water Year Types[b]												
Wet (31%)	4.2	4.6	4.9	4.8	5.1	4.9	4.4	4.3	4.5	4.7	4.6	4.6
Above Normal (25%)	4.0	4.0	4.3	5.0	5.1	4.5	4.1	4.1	4.1	4.4	4.3	4.1
Below Normal (6%)	4.0	4.0	4.0	4.5	4.3	4.1	3.9	4.0	4.1	4.2	4.2	4.1
Dry (13%)	4.1	4.1	4.2	4.2	4.1	4.1	3.9	4.1	4.4	4.5	4.4	4.2
Critical (25%)	4.1	4.1	4.2	4.2	4.0	3.8	3.8	4.0	4.2	4.5	4.4	4.3

Alternative 4 H2 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.5	-0.6	-0.6	-0.6	-0.5	-0.5	-0.6	-0.6	-0.7	-0.7	-0.7	-0.7
20%	-0.6	-0.6	-0.7	-0.6	-0.7	-0.6	-0.6	-0.7	-0.7	-0.7	-0.6	-0.6
30%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
40%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
50%	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6	-0.5	-0.6	-0.7	-0.7	-0.6	-0.6
60%	-0.5	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
70%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
80%	-0.6	-0.7	-0.6	-0.6	-0.6	-0.6	-0.5	-0.6	-0.7	-0.7	-0.6	-0.6
90%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
Long Term												
Full Simulation Period[a]	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
Water Year Types[b]												
Wet (31%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.5	-0.6	-0.7	-0.7	-0.6	-0.7
Above Normal (25%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.6	-0.6	-0.7	-0.6	-0.6
Below Normal (6%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6
Dry (13%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
Critical (25%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-32-1-19. Sacramento River at Rio Vista, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.8	5.3	5.6	5.6	6.0	5.4	5.1	5.0	5.1	5.4	5.3	5.3
20%	4.7	4.9	5.2	5.4	5.7	5.3	4.7	4.8	5.1	5.3	5.1	5.0
30%	4.7	4.9	5.0	5.2	5.1	4.9	4.7	4.8	5.0	5.3	5.1	5.0
40%	4.7	4.8	4.9	5.0	4.9	4.8	4.6	4.7	5.0	5.2	5.1	4.9
50%	4.6	4.7	4.9	5.0	4.8	4.7	4.5	4.7	5.0	5.2	5.1	4.9
60%	4.6	4.7	4.8	4.9	4.8	4.7	4.4	4.7	4.9	5.2	5.0	4.9
70%	4.6	4.7	4.8	4.8	4.7	4.6	4.4	4.7	4.9	5.1	4.9	4.8
80%	4.6	4.7	4.8	4.8	4.6	4.4	4.4	4.6	4.9	5.1	4.9	4.7
90%	4.5	4.5	4.6	4.7	4.5	4.3	4.3	4.5	4.8	5.0	4.9	4.7
Long Term												
Full Simulation Period[a]	4.7	4.8	5.0	5.1	5.0	4.8	4.6	4.8	5.0	5.2	5.1	4.9
Water Year Types[b]												
Wet (31%)	4.8	5.2	5.5	5.5	5.7	5.4	4.9	5.0	5.2	5.4	5.2	5.3
Above Normal (25%)	4.5	4.6	4.9	5.6	5.7	5.1	4.7	4.7	4.8	5.1	5.0	4.8
Below Normal (6%)	4.6	4.7	4.6	5.1	4.9	4.7	4.4	4.6	4.7	4.9	4.8	4.7
Dry (13%)	4.6	4.7	4.9	4.8	4.7	4.6	4.5	4.8	5.0	5.2	5.1	4.8
Critical (25%)	4.7	4.7	4.9	4.8	4.6	4.4	4.4	4.7	4.9	5.2	5.0	4.9

Alternative 4 H3 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	4.6	4.9	5.0	5.4	4.9	4.5	4.4	4.5	4.7	4.6	4.7
20%	4.2	4.3	4.5	4.8	5.0	4.7	4.1	4.2	4.5	4.6	4.5	4.4
30%	4.1	4.2	4.4	4.6	4.5	4.3	4.1	4.2	4.4	4.6	4.5	4.4
40%	4.1	4.2	4.4	4.4	4.3	4.2	4.0	4.1	4.3	4.6	4.5	4.3
50%	4.1	4.1	4.3	4.4	4.2	4.1	3.9	4.1	4.3	4.5	4.4	4.3
60%	4.1	4.1	4.2	4.3	4.1	4.1	3.9	4.1	4.2	4.5	4.4	4.3
70%	4.0	4.0	4.2	4.2	4.1	4.0	3.8	4.0	4.2	4.5	4.3	4.2
80%	4.0	4.0	4.1	4.2	4.0	3.9	3.8	4.0	4.2	4.4	4.3	4.1
90%	3.9	3.9	4.0	4.1	3.9	3.7	3.7	3.9	4.1	4.3	4.2	4.1
Long Term												
Full Simulation Period[a]	4.1	4.2	4.4	4.5	4.4	4.2	4.0	4.1	4.3	4.5	4.4	4.3
Water Year Types[b]												
Wet (31%)	4.2	4.6	4.9	4.8	5.1	4.9	4.4	4.3	4.5	4.7	4.6	4.7
Above Normal (25%)	4.0	4.0	4.3	5.0	5.1	4.5	4.1	4.1	4.1	4.4	4.3	4.2
Below Normal (6%)	4.0	4.1	4.0	4.5	4.3	4.1	3.9	4.0	4.1	4.2	4.2	4.1
Dry (13%)	4.1	4.1	4.2	4.2	4.1	4.0	3.9	4.1	4.4	4.6	4.4	4.2
Critical (25%)	4.1	4.1	4.2	4.2	4.0	3.8	3.8	4.0	4.2	4.5	4.4	4.3

Alternative 4 H3 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.6	-0.6	-0.7	-0.7	-0.7	-0.7
20%	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6	-0.7	-0.7	-0.7	-0.6	-0.6
30%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
40%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
50%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
60%	-0.5	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
70%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
80%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
90%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
Long Term												
Full Simulation Period[a]	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
Water Year Types[b]												
Wet (31%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
Above Normal (25%)	-0.5	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
Below Normal (6%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6
Dry (13%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
Critical (25%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-32-1-20. Sacramento River at Rio Vista, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.8	5.3	5.6	5.6	6.0	5.4	5.1	5.0	5.1	5.4	5.3	5.3
20%	4.7	4.9	5.2	5.4	5.7	5.3	4.7	4.8	5.1	5.3	5.1	5.0
30%	4.7	4.9	5.0	5.2	5.1	4.9	4.7	4.8	5.0	5.3	5.1	5.0
40%	4.7	4.8	4.9	5.0	4.9	4.8	4.6	4.7	5.0	5.2	5.1	4.9
50%	4.6	4.7	4.9	5.0	4.8	4.7	4.5	4.7	5.0	5.2	5.1	4.9
60%	4.6	4.7	4.8	4.9	4.8	4.7	4.4	4.7	4.9	5.2	5.0	4.9
70%	4.6	4.7	4.8	4.8	4.7	4.6	4.4	4.7	4.9	5.1	4.9	4.8
80%	4.6	4.7	4.8	4.8	4.6	4.4	4.4	4.6	4.9	5.1	4.9	4.7
90%	4.5	4.5	4.6	4.7	4.5	4.3	4.3	4.5	4.8	5.0	4.9	4.7
Long Term												
Full Simulation Period[a]	4.7	4.8	5.0	5.1	5.0	4.8	4.6	4.8	5.0	5.2	5.1	4.9
Water Year Types[b]												
Wet (31%)	4.8	5.2	5.5	5.5	5.7	5.4	4.9	5.0	5.2	5.4	5.2	5.3
Above Normal (25%)	4.5	4.6	4.9	5.6	5.7	5.1	4.7	4.7	4.8	5.1	5.0	4.8
Below Normal (6%)	4.6	4.7	4.6	5.1	4.9	4.7	4.4	4.6	4.7	4.9	4.8	4.7
Dry (13%)	4.6	4.7	4.9	4.8	4.7	4.6	4.5	4.8	5.0	5.2	5.1	4.8
Critical (25%)	4.7	4.7	4.9	4.8	4.6	4.4	4.4	4.7	4.9	5.2	5.0	4.9

Alternative 4 H4 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	4.6	4.9	5.0	5.4	4.9	4.5	4.4	4.5	4.7	4.6	4.6
20%	4.2	4.3	4.5	4.8	5.0	4.7	4.1	4.2	4.4	4.6	4.5	4.4
30%	4.1	4.2	4.4	4.6	4.5	4.3	4.1	4.2	4.4	4.6	4.5	4.4
40%	4.1	4.2	4.3	4.4	4.3	4.2	4.0	4.1	4.3	4.6	4.5	4.3
50%	4.1	4.1	4.3	4.4	4.2	4.1	3.9	4.1	4.3	4.5	4.4	4.3
60%	4.1	4.1	4.2	4.3	4.1	4.1	3.9	4.1	4.2	4.5	4.4	4.3
70%	4.0	4.0	4.2	4.2	4.1	4.0	3.9	4.0	4.2	4.4	4.3	4.2
80%	4.0	4.0	4.1	4.2	4.0	3.9	3.9	4.0	4.2	4.4	4.3	4.1
90%	3.9	3.9	4.0	4.1	3.9	3.7	3.7	3.9	4.1	4.3	4.2	4.1
Long Term												
Full Simulation Period[a]	4.1	4.2	4.4	4.5	4.5	4.2	4.0	4.1	4.3	4.5	4.4	4.3
Water Year Types[b]												
Wet (31%)	4.2	4.5	4.9	4.8	5.1	4.9	4.4	4.3	4.5	4.7	4.6	4.7
Above Normal (25%)	4.0	4.0	4.3	5.0	5.1	4.5	4.1	4.1	4.1	4.4	4.3	4.2
Below Normal (6%)	4.0	4.1	4.0	4.5	4.3	4.1	3.9	4.0	4.1	4.2	4.2	4.1
Dry (13%)	4.1	4.1	4.2	4.2	4.1	4.1	3.9	4.1	4.4	4.5	4.4	4.2
Critical (25%)	4.1	4.1	4.2	4.2	4.0	3.8	3.8	4.0	4.2	4.5	4.4	4.3

Alternative 4 H4 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.6	-0.6	-0.7	-0.7	-0.7	-0.7
20%	-0.6	-0.6	-0.7	-0.6	-0.7	-0.6	-0.6	-0.7	-0.7	-0.7	-0.6	-0.6
30%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
40%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
50%	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6	-0.5	-0.6	-0.7	-0.7	-0.6	-0.6
60%	-0.5	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
70%	-0.5	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
80%	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6	-0.5	-0.6	-0.7	-0.7	-0.6	-0.6
90%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
Long Term												
Full Simulation Period[a]	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
Water Year Types[b]												
Wet (31%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.5	-0.6	-0.7	-0.7	-0.6	-0.6
Above Normal (25%)	-0.5	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.6	-0.6	-0.7	-0.6	-0.6
Below Normal (6%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6
Dry (13%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
Critical (25%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-32-1-21. Sacramento River at Rio Vista, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.8	5.3	5.6	5.6	6.0	5.4	5.1	5.0	5.1	5.4	5.3	5.3
20%	4.7	4.9	5.2	5.4	5.7	5.3	4.7	4.8	5.1	5.3	5.1	5.0
30%	4.7	4.9	5.0	5.2	5.1	4.9	4.7	4.8	5.0	5.3	5.1	5.0
40%	4.7	4.8	4.9	5.0	4.9	4.8	4.6	4.7	5.0	5.2	5.1	4.9
50%	4.6	4.7	4.9	5.0	4.8	4.7	4.5	4.7	5.0	5.2	5.1	4.9
60%	4.6	4.7	4.8	4.9	4.8	4.7	4.4	4.7	4.9	5.2	5.0	4.9
70%	4.6	4.7	4.8	4.8	4.7	4.6	4.4	4.7	4.9	5.1	4.9	4.8
80%	4.6	4.7	4.8	4.8	4.6	4.4	4.4	4.6	4.9	5.1	4.9	4.7
90%	4.5	4.5	4.6	4.7	4.5	4.3	4.3	4.5	4.8	5.0	4.9	4.7
Long Term												
Full Simulation Period[a]	4.7	4.8	5.0	5.1	5.0	4.8	4.6	4.8	5.0	5.2	5.1	4.9
Water Year Types[b]												
Wet (31%)	4.8	5.2	5.5	5.5	5.7	5.4	4.9	5.0	5.2	5.4	5.2	5.3
Above Normal (25%)	4.5	4.6	4.9	5.6	5.7	5.1	4.7	4.7	4.8	5.1	5.0	4.8
Below Normal (6%)	4.6	4.7	4.6	5.1	4.9	4.7	4.4	4.6	4.7	4.9	4.8	4.7
Dry (13%)	4.6	4.7	4.9	4.8	4.7	4.6	4.5	4.8	5.0	5.2	5.1	4.8
Critical (25%)	4.7	4.7	4.9	4.8	4.6	4.4	4.4	4.7	4.9	5.2	5.0	4.9

Alternative 5 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	4.6	5.0	5.0	5.4	4.9	4.6	4.4	4.5	4.7	4.6	4.6
20%	4.2	4.3	4.5	4.8	5.0	4.7	4.1	4.2	4.4	4.6	4.5	4.4
30%	4.1	4.2	4.4	4.6	4.5	4.3	4.1	4.2	4.4	4.6	4.5	4.4
40%	4.1	4.2	4.3	4.4	4.3	4.2	4.0	4.1	4.4	4.6	4.5	4.3
50%	4.1	4.1	4.3	4.4	4.2	4.1	3.9	4.1	4.3	4.5	4.4	4.3
60%	4.0	4.1	4.2	4.3	4.1	4.1	3.9	4.1	4.2	4.5	4.4	4.3
70%	4.0	4.0	4.2	4.2	4.1	4.0	3.8	4.0	4.2	4.5	4.3	4.2
80%	4.0	4.0	4.1	4.2	4.0	3.9	3.8	4.0	4.2	4.4	4.2	4.1
90%	3.9	3.9	4.0	4.1	3.9	3.7	3.7	3.9	4.1	4.3	4.2	4.1
Long Term												
Full Simulation Period[a]	4.1	4.2	4.4	4.5	4.5	4.3	4.0	4.1	4.3	4.5	4.4	4.3
Water Year Types[b]												
Wet (31%)	4.2	4.6	4.9	4.9	5.1	4.9	4.4	4.3	4.6	4.7	4.6	4.7
Above Normal (25%)	4.0	4.0	4.3	5.0	5.1	4.5	4.1	4.1	4.1	4.4	4.3	4.2
Below Normal (6%)	4.0	4.1	4.0	4.5	4.3	4.1	3.9	4.0	4.1	4.2	4.2	4.1
Dry (13%)	4.1	4.1	4.2	4.2	4.1	4.1	3.9	4.1	4.4	4.6	4.4	4.2
Critical (25%)	4.1	4.1	4.2	4.2	4.0	3.8	3.8	4.0	4.2	4.5	4.4	4.3

Alternative 5 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.6	-0.6	-0.6	-0.6	-0.5	-0.5	-0.6	-0.6	-0.6	-0.7	-0.7	-0.7
20%	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6	-0.7	-0.7	-0.7	-0.6	-0.6
30%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
40%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
50%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
60%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
70%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
80%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.6	-0.7	-0.7	-0.6	-0.6
90%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
Long Term												
Full Simulation Period[a]	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
Water Year Types[b]												
Wet (31%)	-0.6	-0.6	-0.6	-0.6	-0.5	-0.5	-0.5	-0.6	-0.6	-0.7	-0.6	-0.6
Above Normal (25%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6
Below Normal (6%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6
Dry (13%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
Critical (25%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-32-1-22. Sacramento River at Rio Vista, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.8	5.3	5.6	5.6	6.0	5.4	5.1	5.0	5.1	5.4	5.3	5.3
20%	4.7	4.9	5.2	5.4	5.7	5.3	4.7	4.8	5.1	5.3	5.1	5.0
30%	4.7	4.9	5.0	5.2	5.1	4.9	4.7	4.8	5.0	5.3	5.1	5.0
40%	4.7	4.8	4.9	5.0	4.9	4.8	4.6	4.7	5.0	5.2	5.1	4.9
50%	4.6	4.7	4.9	5.0	4.8	4.7	4.5	4.7	5.0	5.2	5.1	4.9
60%	4.6	4.7	4.8	4.9	4.8	4.7	4.4	4.7	4.9	5.2	5.0	4.9
70%	4.6	4.7	4.8	4.8	4.7	4.6	4.4	4.7	4.9	5.1	4.9	4.8
80%	4.6	4.7	4.8	4.8	4.6	4.4	4.4	4.6	4.9	5.1	4.9	4.7
90%	4.5	4.5	4.6	4.7	4.5	4.3	4.3	4.5	4.8	5.0	4.9	4.7
Long Term												
Full Simulation Period[a]	4.7	4.8	5.0	5.1	5.0	4.8	4.6	4.8	5.0	5.2	5.1	4.9
Water Year Types[b]												
Wet (31%)	4.8	5.2	5.5	5.5	5.7	5.4	4.9	5.0	5.2	5.4	5.2	5.3
Above Normal (25%)	4.5	4.6	4.9	5.6	5.7	5.1	4.7	4.7	4.8	5.1	5.0	4.8
Below Normal (6%)	4.6	4.7	4.6	5.1	4.9	4.7	4.4	4.6	4.7	4.9	4.8	4.7
Dry (13%)	4.6	4.7	4.9	4.8	4.7	4.6	4.5	4.8	5.0	5.2	5.1	4.8
Critical (25%)	4.7	4.7	4.9	4.8	4.6	4.4	4.4	4.7	4.9	5.2	5.0	4.9

Alternative 6A,6B,6C (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	4.6	5.0	5.0	5.4	4.9	4.5	4.4	4.5	4.7	4.6	4.6
20%	4.2	4.4	4.5	4.8	5.0	4.7	4.1	4.2	4.4	4.6	4.5	4.4
30%	4.1	4.3	4.4	4.6	4.5	4.2	4.1	4.2	4.4	4.6	4.5	4.4
40%	4.1	4.2	4.4	4.4	4.3	4.2	4.0	4.1	4.3	4.6	4.5	4.3
50%	4.1	4.1	4.3	4.4	4.3	4.1	3.9	4.1	4.3	4.5	4.4	4.3
60%	4.1	4.1	4.2	4.3	4.1	4.1	3.9	4.1	4.2	4.5	4.4	4.3
70%	4.0	4.0	4.2	4.2	4.1	4.0	3.8	4.0	4.2	4.4	4.3	4.2
80%	4.0	4.0	4.2	4.2	4.0	3.9	3.8	4.0	4.2	4.4	4.3	4.1
90%	3.9	3.9	4.0	4.1	3.9	3.8	3.7	3.9	4.1	4.3	4.2	4.1
Long Term												
Full Simulation Period[a]	4.1	4.2	4.4	4.5	4.5	4.2	4.0	4.1	4.3	4.5	4.4	4.3
Water Year Types[b]												
Wet (31%)	4.2	4.6	4.9	4.8	5.1	4.9	4.4	4.3	4.5	4.7	4.6	4.7
Above Normal (25%)	4.0	4.0	4.3	5.0	5.1	4.5	4.0	4.1	4.1	4.4	4.4	4.2
Below Normal (6%)	4.0	4.1	4.0	4.5	4.3	4.1	3.9	4.0	4.1	4.2	4.2	4.1
Dry (13%)	4.1	4.1	4.3	4.2	4.1	4.0	3.9	4.1	4.4	4.5	4.4	4.3
Critical (25%)	4.1	4.1	4.2	4.2	4.0	3.8	3.8	4.0	4.2	4.5	4.4	4.3

Alternative 6A,6B,6C (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.5	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.7	-0.6	-0.7
20%	-0.5	-0.5	-0.6	-0.6	-0.7	-0.6	-0.6	-0.7	-0.7	-0.7	-0.6	-0.6
30%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
40%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
50%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
60%	-0.5	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
70%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
80%	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
90%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
Long Term												
Full Simulation Period[a]	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
Water Year Types[b]												
Wet (31%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
Above Normal (25%)	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
Below Normal (6%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
Dry (13%)	-0.5	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
Critical (25%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-32-1-23. Sacramento River at Rio Vista, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.8	5.3	5.6	5.6	6.0	5.4	5.1	5.0	5.1	5.4	5.3	5.3
20%	4.7	4.9	5.2	5.4	5.7	5.3	4.7	4.8	5.1	5.3	5.1	5.0
30%	4.7	4.9	5.0	5.2	5.1	4.9	4.7	4.8	5.0	5.3	5.1	5.0
40%	4.7	4.8	4.9	5.0	4.9	4.8	4.6	4.7	5.0	5.2	5.1	4.9
50%	4.6	4.7	4.9	5.0	4.8	4.7	4.5	4.7	5.0	5.2	5.1	4.9
60%	4.6	4.7	4.8	4.9	4.8	4.7	4.4	4.7	4.9	5.2	5.0	4.9
70%	4.6	4.7	4.8	4.8	4.7	4.6	4.4	4.7	4.9	5.1	4.9	4.8
80%	4.6	4.7	4.8	4.8	4.6	4.4	4.4	4.6	4.9	5.1	4.9	4.7
90%	4.5	4.5	4.6	4.7	4.5	4.3	4.3	4.5	4.8	5.0	4.9	4.7
Long Term												
Full Simulation Period[a]	4.7	4.8	5.0	5.1	5.0	4.8	4.6	4.8	5.0	5.2	5.1	4.9
Water Year Types[b]												
Wet (31%)	4.8	5.2	5.5	5.5	5.7	5.4	4.9	5.0	5.2	5.4	5.2	5.3
Above Normal (25%)	4.5	4.6	4.9	5.6	5.7	5.1	4.7	4.7	4.8	5.1	5.0	4.8
Below Normal (6%)	4.6	4.7	4.6	5.1	4.9	4.7	4.4	4.6	4.7	4.9	4.8	4.7
Dry (13%)	4.6	4.7	4.9	4.8	4.7	4.6	4.5	4.8	5.0	5.2	5.1	4.8
Critical (25%)	4.7	4.7	4.9	4.8	4.6	4.4	4.4	4.7	4.9	5.2	5.0	4.9

Alternative 7 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	4.6	5.0	5.0	5.4	4.9	4.5	4.4	4.5	4.7	4.6	4.7
20%	4.2	4.4	4.5	4.8	5.0	4.7	4.1	4.2	4.4	4.6	4.5	4.4
30%	4.1	4.3	4.4	4.6	4.5	4.3	4.1	4.1	4.4	4.6	4.5	4.4
40%	4.1	4.2	4.4	4.4	4.3	4.2	4.0	4.1	4.4	4.6	4.5	4.3
50%	4.1	4.1	4.3	4.4	4.3	4.1	3.9	4.1	4.3	4.5	4.4	4.3
60%	4.1	4.1	4.2	4.3	4.1	4.1	3.9	4.1	4.3	4.5	4.4	4.3
70%	4.0	4.1	4.2	4.2	4.1	4.0	3.8	4.0	4.2	4.4	4.3	4.2
80%	4.0	4.0	4.2	4.2	4.0	3.9	3.8	4.0	4.2	4.4	4.3	4.1
90%	3.9	3.9	4.0	4.1	3.9	3.8	3.7	3.9	4.1	4.3	4.2	4.1
Long Term												
Full Simulation Period[a]	4.1	4.2	4.4	4.5	4.5	4.2	4.0	4.1	4.3	4.5	4.4	4.3
Water Year Types[b]												
Wet (31%)	4.2	4.6	4.9	4.8	5.1	4.9	4.4	4.3	4.6	4.7	4.6	4.7
Above Normal (25%)	4.0	4.0	4.3	5.0	5.1	4.5	4.1	4.1	4.2	4.4	4.3	4.2
Below Normal (6%)	4.0	4.1	4.0	4.5	4.3	4.1	3.9	4.0	4.1	4.2	4.2	4.1
Dry (13%)	4.1	4.1	4.3	4.2	4.1	4.1	3.9	4.1	4.4	4.6	4.4	4.2
Critical (25%)	4.1	4.1	4.2	4.2	4.0	3.8	3.8	4.0	4.2	4.5	4.4	4.3

Alternative 7 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.5	-0.6	-0.6	-0.6	-0.5	-0.5	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
20%	-0.5	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
30%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
40%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6
50%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
60%	-0.5	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
70%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
80%	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
90%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
Long Term												
Full Simulation Period[a]	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
Water Year Types[b]												
Wet (31%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
Above Normal (25%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
Below Normal (6%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
Dry (13%)	-0.5	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
Critical (25%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-32-1-24. Sacramento River at Rio Vista, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.8	5.3	5.6	5.6	6.0	5.4	5.1	5.0	5.1	5.4	5.3	5.3
20%	4.7	4.9	5.2	5.4	5.7	5.3	4.7	4.8	5.1	5.3	5.1	5.0
30%	4.7	4.9	5.0	5.2	5.1	4.9	4.7	4.8	5.0	5.3	5.1	5.0
40%	4.7	4.8	4.9	5.0	4.9	4.8	4.6	4.7	5.0	5.2	5.1	4.9
50%	4.6	4.7	4.9	5.0	4.8	4.7	4.5	4.7	5.0	5.2	5.1	4.9
60%	4.6	4.7	4.8	4.9	4.8	4.7	4.4	4.7	4.9	5.2	5.0	4.9
70%	4.6	4.7	4.8	4.8	4.7	4.6	4.4	4.7	4.9	5.1	4.9	4.8
80%	4.6	4.7	4.8	4.8	4.6	4.4	4.4	4.6	4.9	5.1	4.9	4.7
90%	4.5	4.5	4.6	4.7	4.5	4.3	4.3	4.5	4.8	5.0	4.9	4.7
Long Term												
Full Simulation Period[a]	4.7	4.8	5.0	5.1	5.0	4.8	4.6	4.8	5.0	5.2	5.1	4.9
Water Year Types[b]												
Wet (31%)	4.8	5.2	5.5	5.5	5.7	5.4	4.9	5.0	5.2	5.4	5.2	5.3
Above Normal (25%)	4.5	4.6	4.9	5.6	5.7	5.1	4.7	4.7	4.8	5.1	5.0	4.8
Below Normal (6%)	4.6	4.7	4.6	5.1	4.9	4.7	4.4	4.6	4.7	4.9	4.8	4.7
Dry (13%)	4.6	4.7	4.9	4.8	4.7	4.6	4.5	4.8	5.0	5.2	5.1	4.8
Critical (25%)	4.7	4.7	4.9	4.8	4.6	4.4	4.4	4.7	4.9	5.2	5.0	4.9

Alternative 8 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	4.6	5.0	5.0	5.4	4.9	4.6	4.4	4.5	4.7	4.6	4.6
20%	4.2	4.4	4.5	4.8	5.0	4.7	4.1	4.2	4.4	4.6	4.5	4.4
30%	4.1	4.3	4.4	4.6	4.5	4.3	4.1	4.2	4.4	4.6	4.5	4.4
40%	4.1	4.2	4.4	4.4	4.3	4.2	4.0	4.1	4.3	4.5	4.5	4.3
50%	4.1	4.1	4.3	4.4	4.3	4.2	3.9	4.1	4.3	4.5	4.4	4.3
60%	4.0	4.1	4.2	4.3	4.2	4.1	3.9	4.1	4.3	4.5	4.4	4.3
70%	4.0	4.0	4.2	4.3	4.1	4.0	3.9	4.0	4.2	4.4	4.3	4.2
80%	4.0	4.0	4.2	4.2	4.0	3.9	3.8	4.0	4.2	4.4	4.3	4.1
90%	3.9	3.9	4.0	4.1	4.0	3.8	3.7	3.9	4.1	4.3	4.2	4.1
Long Term												
Full Simulation Period[a]	4.1	4.2	4.4	4.5	4.5	4.3	4.0	4.1	4.3	4.5	4.4	4.3
Water Year Types[b]												
Wet (31%)	4.2	4.6	4.9	4.9	5.1	4.9	4.4	4.4	4.6	4.7	4.6	4.7
Above Normal (25%)	4.0	4.0	4.3	5.0	5.1	4.5	4.1	4.1	4.2	4.4	4.3	4.2
Below Normal (6%)	4.0	4.1	4.0	4.5	4.3	4.2	3.9	4.0	4.1	4.2	4.2	4.1
Dry (13%)	4.1	4.1	4.3	4.2	4.1	4.1	3.9	4.1	4.4	4.5	4.4	4.2
Critical (25%)	4.1	4.1	4.2	4.2	4.0	3.8	3.8	4.0	4.2	4.5	4.4	4.3

Alternative 8 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.6	-0.6	-0.6	-0.7	-0.7	-0.7
20%	-0.6	-0.5	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
30%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
40%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
50%	-0.6	-0.6	-0.6	-0.6	-0.5	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
60%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
70%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
80%	-0.6	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.7	-0.7	-0.6	-0.6
90%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
Long Term												
Full Simulation Period[a]	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
Water Year Types[b]												
Wet (31%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
Above Normal (25%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6
Below Normal (6%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.6	-0.6	-0.7	-0.6	-0.6
Dry (13%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.5	-0.6	-0.7	-0.7	-0.6	-0.6
Critical (25%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-32-1-25. Sacramento River at Rio Vista, Monthly Averaged Daily Maximum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.8	5.3	5.6	5.6	6.0	5.4	5.1	5.0	5.1	5.4	5.3	5.3
20%	4.7	4.9	5.2	5.4	5.7	5.3	4.7	4.8	5.1	5.3	5.1	5.0
30%	4.7	4.9	5.0	5.2	5.1	4.9	4.7	4.8	5.0	5.3	5.1	5.0
40%	4.7	4.8	4.9	5.0	4.9	4.8	4.6	4.7	5.0	5.2	5.1	4.9
50%	4.6	4.7	4.9	5.0	4.8	4.7	4.5	4.7	5.0	5.2	5.1	4.9
60%	4.6	4.7	4.8	4.9	4.8	4.7	4.4	4.7	4.9	5.2	5.0	4.9
70%	4.6	4.7	4.8	4.8	4.7	4.6	4.4	4.7	4.9	5.1	4.9	4.8
80%	4.6	4.7	4.8	4.8	4.6	4.4	4.4	4.6	4.9	5.1	4.9	4.7
90%	4.5	4.5	4.6	4.7	4.5	4.3	4.3	4.5	4.8	5.0	4.9	4.7
Long Term												
Full Simulation Period[a]	4.7	4.8	5.0	5.1	5.0	4.8	4.6	4.8	5.0	5.2	5.1	4.9
Water Year Types[b]												
Wet (31%)	4.8	5.2	5.5	5.5	5.7	5.4	4.9	5.0	5.2	5.4	5.2	5.3
Above Normal (25%)	4.5	4.6	4.9	5.6	5.7	5.1	4.7	4.7	4.8	5.1	5.0	4.8
Below Normal (6%)	4.6	4.7	4.6	5.1	4.9	4.7	4.4	4.6	4.7	4.9	4.8	4.7
Dry (13%)	4.6	4.7	4.9	4.8	4.7	4.6	4.5	4.8	5.0	5.2	5.1	4.8
Critical (25%)	4.7	4.7	4.9	4.8	4.6	4.4	4.4	4.7	4.9	5.2	5.0	4.9

Alternative 9 (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	4.7	5.0	5.1	5.4	4.9	4.6	4.4	4.5	4.8	4.6	4.7
20%	4.2	4.4	4.5	4.8	5.1	4.8	4.1	4.2	4.5	4.6	4.5	4.5
30%	4.1	4.3	4.4	4.6	4.5	4.3	4.1	4.2	4.4	4.6	4.5	4.4
40%	4.1	4.2	4.3	4.4	4.3	4.3	4.0	4.1	4.4	4.6	4.5	4.4
50%	4.1	4.1	4.3	4.4	4.2	4.2	3.9	4.1	4.4	4.6	4.5	4.3
60%	4.1	4.1	4.2	4.3	4.2	4.1	3.9	4.1	4.3	4.5	4.4	4.3
70%	4.0	4.1	4.2	4.2	4.1	4.0	3.9	4.1	4.2	4.5	4.4	4.3
80%	4.0	4.1	4.1	4.2	4.0	3.9	3.8	4.0	4.2	4.5	4.3	4.2
90%	3.9	3.9	4.0	4.1	3.9	3.8	3.7	3.9	4.2	4.3	4.3	4.1
Long Term												
Full Simulation Period[a]	4.1	4.2	4.4	4.5	4.5	4.3	4.0	4.2	4.4	4.5	4.5	4.4
Water Year Types[b]												
Wet (31%)	4.3	4.6	4.9	4.9	5.1	4.9	4.4	4.4	4.6	4.7	4.6	4.7
Above Normal (25%)	4.0	4.0	4.3	5.1	5.2	4.6	4.1	4.1	4.2	4.4	4.4	4.2
Below Normal (6%)	4.0	4.1	4.0	4.5	4.3	4.2	3.9	4.0	4.1	4.2	4.2	4.1
Dry (13%)	4.1	4.1	4.2	4.2	4.1	4.1	3.9	4.2	4.4	4.6	4.5	4.3
Critical (25%)	4.1	4.2	4.3	4.2	4.0	3.8	3.8	4.0	4.3	4.5	4.4	4.3

Alternative 9 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.5	-0.6	-0.6	-0.6	-0.5	-0.5	-0.5	-0.6	-0.6	-0.7	-0.6	-0.6
20%	-0.5	-0.6	-0.6	-0.6	-0.6	-0.5	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5
30%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
40%	-0.5	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6
50%	-0.5	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
60%	-0.5	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
70%	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6
80%	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6	-0.5	-0.6	-0.6	-0.6	-0.6	-0.6
90%	-0.5	-0.6	-0.6	-0.6	-0.6	-0.5	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
Long Term												
Full Simulation Period[a]	-0.5	-0.6	-0.6	-0.6	-0.6	-0.5	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
Water Year Types[b]												
Wet (31%)	-0.5	-0.6	-0.6	-0.6	-0.5	-0.5	-0.5	-0.6	-0.6	-0.7	-0.6	-0.6
Above Normal (25%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
Below Normal (6%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6
Dry (13%)	-0.5	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6
Critical (25%)	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.6

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-32-2-1. Sacramento River at Rio Vista, Monthly Averaged Daily Minimum Elevation

Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	-0.7	-0.5	-0.1	0.2	1.2	0.5	-0.2	-0.7	-0.9	-0.6	-0.6	-0.5
20%	-0.9	-0.8	-0.9	-0.3	0.0	0.1	-0.9	-1.0	-1.0	-0.8	-0.7	-0.6
30%	-0.9	-1.0	-1.0	-0.5	-0.3	-0.4	-1.0	-1.1	-1.1	-0.9	-0.7	-0.7
40%	-1.0	-1.0	-1.0	-0.8	-0.8	-0.7	-1.1	-1.1	-1.1	-0.9	-0.7	-0.7
50%	-1.0	-1.1	-1.1	-1.0	-0.9	-0.7	-1.1	-1.2	-1.1	-0.9	-0.8	-0.8
60%	-1.0	-1.2	-1.1	-1.1	-1.0	-0.8	-1.1	-1.2	-1.1	-0.9	-0.8	-0.8
70%	-1.0	-1.2	-1.2	-1.1	-1.0	-1.0	-1.2	-1.2	-1.1	-0.9	-0.8	-0.8
80%	-1.0	-1.2	-1.3	-1.2	-1.1	-1.2	-1.2	-1.3	-1.2	-1.0	-0.8	-0.8
90%	-1.1	-1.3	-1.4	-1.3	-1.2	-1.2	-1.4	-1.4	-1.2	-1.0	-0.9	-0.9
Long Term												
Full Simulation Period[a]	-0.9	-1.0	-0.9	-0.7	-0.4	-0.5	-0.9	-1.1	-1.0	-0.9	-0.8	-0.7
Water Year Types[b]												
Wet (31%)	-0.8	-0.5	-0.2	-0.3	0.6	0.7	-0.4	-0.8	-0.7	-0.7	-0.6	-0.4
Above Normal (25%)	-1.0	-1.1	-1.0	0.2	0.4	-0.1	-0.8	-1.0	-1.1	-0.9	-0.7	-0.8
Below Normal (6%)	-0.8	-1.1	-1.3	-0.8	-0.6	-0.6	-1.1	-1.1	-1.1	-1.0	-0.8	-0.8
Dry (13%)	-1.0	-1.2	-1.1	-1.2	-1.1	-0.9	-1.2	-1.2	-1.1	-0.9	-0.8	-0.8
Critical (25%)	-1.0	-1.1	-1.2	-1.2	-1.1	-1.1	-1.3	-1.3	-1.2	-0.9	-0.8	-0.8

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.6	0.7	1.1	1.4	2.6	1.7	1.1	0.5	0.4	0.7	0.7	0.9
20%	0.5	0.4	0.4	1.1	1.4	1.4	0.3	0.3	0.2	0.5	0.6	0.7
30%	0.4	0.3	0.3	0.8	1.0	0.8	0.3	0.2	0.2	0.5	0.6	0.6
40%	0.4	0.3	0.3	0.4	0.5	0.6	0.2	0.1	0.2	0.4	0.5	0.6
50%	0.3	0.2	0.2	0.3	0.4	0.5	0.2	0.1	0.2	0.4	0.5	0.6
60%	0.3	0.2	0.2	0.2	0.3	0.5	0.2	0.1	0.2	0.4	0.5	0.5
70%	0.3	0.1	0.1	0.2	0.3	0.3	0.1	0.1	0.1	0.4	0.5	0.5
80%	0.3	0.1	0.0	0.0	0.2	0.1	0.1	0.0	0.1	0.3	0.4	0.5
90%	0.3	0.0	-0.1	0.0	0.1	0.1	-0.1	-0.1	0.1	0.3	0.4	0.4
Long Term												
Full Simulation Period[a]	0.4	0.3	0.4	0.5	0.9	0.8	0.3	0.2	0.2	0.4	0.5	0.6
Water Year Types[b]												
Wet (31%)	0.5	0.7	1.1	1.0	2.0	1.9	0.9	0.4	0.5	0.6	0.7	0.9
Above Normal (25%)	0.4	0.2	0.3	1.4	1.8	1.2	0.5	0.3	0.2	0.4	0.6	0.6
Below Normal (6%)	0.5	0.3	0.0	0.5	0.7	0.6	0.2	0.1	0.2	0.3	0.5	0.5
Dry (13%)	0.3	0.1	0.1	0.1	0.2	0.4	0.1	0.1	0.2	0.4	0.5	0.5
Critical (25%)	0.3	0.2	0.1	0.1	0.2	0.2	0.0	0.0	0.1	0.4	0.5	0.5

No Action Alternative (LLT) minus Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.3	1.2	1.2	1.2	1.4	1.3	1.3	1.2	1.3	1.3	1.3	1.4
20%	1.3	1.2	1.3	1.3	1.4	1.3	1.3	1.3	1.3	1.3	1.3	1.3
30%	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
40%	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
50%	1.3	1.3	1.3	1.3	1.3	1.2	1.3	1.3	1.3	1.3	1.3	1.3
60%	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
70%	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
80%	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
90%	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Long Term												
Full Simulation Period[a]	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Water Year Types[b]												
Wet (31%)	1.3	1.2	1.3	1.3	1.4	1.3	1.3	1.2	1.2	1.3	1.3	1.4
Above Normal (25%)	1.3	1.3	1.3	1.2	1.4	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Below Normal (6%)	1.3	1.3	1.3	1.3	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Dry (13%)	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Critical (25%)	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

Table C-32-2-2. Sacramento River at Rio Vista, Monthly Averaged Daily Minimum Elevation

Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	-0.7	-0.5	-0.1	0.2	1.2	0.5	-0.2	-0.7	-0.9	-0.6	-0.6	-0.5
20%	-0.9	-0.8	-0.9	-0.3	0.0	0.1	-0.9	-1.0	-1.0	-0.8	-0.7	-0.6
30%	-0.9	-1.0	-1.0	-0.5	-0.3	-0.4	-1.0	-1.1	-1.1	-0.9	-0.7	-0.7
40%	-1.0	-1.0	-1.0	-0.8	-0.8	-0.7	-1.1	-1.1	-1.1	-0.9	-0.7	-0.7
50%	-1.0	-1.1	-1.1	-1.0	-0.9	-0.7	-1.1	-1.2	-1.1	-0.9	-0.8	-0.8
60%	-1.0	-1.2	-1.1	-1.1	-1.0	-0.8	-1.1	-1.2	-1.1	-0.9	-0.8	-0.8
70%	-1.0	-1.2	-1.2	-1.1	-1.0	-1.0	-1.2	-1.2	-1.1	-0.9	-0.8	-0.8
80%	-1.0	-1.2	-1.3	-1.2	-1.1	-1.2	-1.2	-1.3	-1.2	-1.0	-0.8	-0.8
90%	-1.1	-1.3	-1.4	-1.3	-1.2	-1.2	-1.4	-1.4	-1.2	-1.0	-0.9	-0.9
Long Term												
Full Simulation Period[a]	-0.9	-1.0	-0.9	-0.7	-0.4	-0.5	-0.9	-1.1	-1.0	-0.9	-0.8	-0.7
Water Year Types[b]												
Wet (31%)	-0.8	-0.5	-0.2	-0.3	0.6	0.7	-0.4	-0.8	-0.7	-0.7	-0.6	-0.4
Above Normal (25%)	-1.0	-1.1	-1.0	0.2	0.4	-0.1	-0.8	-1.0	-1.1	-0.9	-0.7	-0.8
Below Normal (6%)	-0.8	-1.1	-1.3	-0.8	-0.6	-0.6	-1.1	-1.1	-1.1	-1.0	-0.8	-0.8
Dry (13%)	-1.0	-1.2	-1.1	-1.2	-1.1	-0.9	-1.2	-1.2	-1.1	-0.9	-0.8	-0.8
Critical (25%)	-1.0	-1.1	-1.2	-1.2	-1.1	-1.1	-1.3	-1.3	-1.2	-0.9	-0.8	-0.8

Alternative 1A,1B,1C (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.4	1.5	1.9	2.1	3.1	2.4	1.8	1.2	1.2	1.5	1.5	1.5
20%	1.2	1.2	1.2	1.8	2.1	2.0	1.1	1.1	1.1	1.3	1.4	1.4
30%	1.2	1.1	1.1	1.5	1.7	1.6	1.0	1.0	1.0	1.3	1.4	1.4
40%	1.2	1.0	1.1	1.3	1.3	1.3	1.0	0.9	1.0	1.3	1.3	1.3
50%	1.1	1.0	1.1	1.1	1.1	1.3	1.0	0.9	1.0	1.2	1.3	1.3
60%	1.1	1.0	1.0	1.1	1.1	1.2	0.9	0.9	1.0	1.2	1.3	1.3
70%	1.1	0.9	1.0	1.0	1.1	1.0	0.9	0.9	1.0	1.2	1.2	1.3
80%	1.1	0.9	0.8	0.9	1.0	0.9	0.8	0.8	1.0	1.1	1.2	1.2
90%	1.1	0.9	0.8	0.9	0.9	0.9	0.7	0.8	0.9	1.1	1.2	1.2
Long Term												
Full Simulation Period[a]	1.2	1.1	1.2	1.3	1.6	1.5	1.1	1.0	1.1	1.3	1.3	1.4
Water Year Types[b]												
Wet (31%)	1.3	1.5	1.9	1.8	2.6	2.5	1.6	1.2	1.3	1.4	1.4	1.6
Above Normal (25%)	1.2	1.0	1.1	2.1	2.5	1.9	1.2	1.0	1.0	1.2	1.3	1.3
Below Normal (6%)	1.3	1.0	0.8	1.3	1.4	1.4	1.0	0.9	1.0	1.1	1.2	1.2
Dry (13%)	1.1	0.9	1.0	1.0	1.0	1.1	0.9	0.9	1.0	1.2	1.3	1.3
Critical (25%)	1.2	1.0	1.0	1.0	1.0	0.9	0.8	0.8	0.9	1.2	1.3	1.3

Alternative 1A,1B,1C (LLT) minus Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	2.1	1.9	2.0	1.9	1.9	1.9	2.0	2.0	2.1	2.1	2.1	2.0
20%	2.1	2.0	2.1	2.0	2.1	2.0	2.0	2.1	2.1	2.1	2.1	2.1
30%	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1
40%	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
50%	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
60%	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
70%	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
80%	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.0	2.0
90%	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0
Long Term												
Full Simulation Period[a]	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1
Water Year Types[b]												
Wet (31%)	2.1	2.0	2.1	2.1	1.9	1.9	2.0	2.0	2.0	2.1	2.0	2.0
Above Normal (25%)	2.1	2.1	2.1	1.9	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.0
Below Normal (6%)	2.1	2.1	2.1	2.1	1.9	2.0	2.0	2.0	2.1	2.1	2.0	2.0
Dry (13%)	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
Critical (25%)	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-32-2-3. Sacramento River at Rio Vista, Monthly Averaged Daily Minimum Elevation

Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	-0.7	-0.5	-0.1	0.2	1.2	0.5	-0.2	-0.7	-0.9	-0.6	-0.6	-0.5
20%	-0.9	-0.8	-0.9	-0.3	0.0	0.1	-0.9	-1.0	-1.0	-0.8	-0.7	-0.6
30%	-0.9	-1.0	-1.0	-0.5	-0.3	-0.4	-1.0	-1.1	-1.1	-0.9	-0.7	-0.7
40%	-1.0	-1.0	-1.0	-0.8	-0.8	-0.7	-1.1	-1.1	-1.1	-0.9	-0.7	-0.7
50%	-1.0	-1.1	-1.1	-1.0	-0.9	-0.7	-1.1	-1.2	-1.1	-0.9	-0.8	-0.8
60%	-1.0	-1.2	-1.1	-1.1	-1.0	-0.8	-1.1	-1.2	-1.1	-0.9	-0.8	-0.8
70%	-1.0	-1.2	-1.2	-1.1	-1.0	-1.0	-1.2	-1.2	-1.1	-0.9	-0.8	-0.8
80%	-1.0	-1.2	-1.3	-1.2	-1.1	-1.2	-1.2	-1.3	-1.2	-1.0	-0.8	-0.8
90%	-1.1	-1.3	-1.4	-1.3	-1.2	-1.2	-1.4	-1.4	-1.2	-1.0	-0.9	-0.9
Long Term												
Full Simulation Period[a]	-0.9	-1.0	-0.9	-0.7	-0.4	-0.5	-0.9	-1.1	-1.0	-0.9	-0.8	-0.7
Water Year Types[b]												
Wet (31%)	-0.8	-0.5	-0.2	-0.3	0.6	0.7	-0.4	-0.8	-0.7	-0.7	-0.6	-0.4
Above Normal (25%)	-1.0	-1.1	-1.0	0.2	0.4	-0.1	-0.8	-1.0	-1.1	-0.9	-0.7	-0.8
Below Normal (6%)	-0.8	-1.1	-1.3	-0.8	-0.6	-0.6	-1.1	-1.1	-1.1	-1.0	-0.8	-0.8
Dry (13%)	-1.0	-1.2	-1.1	-1.2	-1.1	-0.9	-1.2	-1.2	-1.1	-0.9	-0.8	-0.8
Critical (25%)	-1.0	-1.1	-1.2	-1.2	-1.1	-1.1	-1.3	-1.3	-1.2	-0.9	-0.8	-0.8

Alternative 2A,2B,2C (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.4	1.5	1.9	2.1	3.1	2.3	1.8	1.2	1.2	1.5	1.5	1.7
20%	1.2	1.2	1.2	1.8	2.1	2.0	1.1	1.1	1.1	1.3	1.4	1.4
30%	1.2	1.1	1.1	1.5	1.7	1.5	1.0	1.0	1.1	1.3	1.4	1.4
40%	1.2	1.1	1.1	1.3	1.3	1.3	1.0	0.9	1.0	1.3	1.4	1.4
50%	1.1	1.0	1.1	1.1	1.2	1.3	1.0	0.9	1.0	1.2	1.3	1.3
60%	1.1	1.0	1.0	1.1	1.1	1.2	1.0	0.9	1.0	1.2	1.3	1.3
70%	1.1	0.9	1.0	1.1	1.1	1.0	0.9	0.9	1.0	1.2	1.3	1.3
80%	1.1	0.9	0.8	0.9	1.0	0.9	0.8	0.8	1.0	1.2	1.2	1.3
90%	1.1	0.9	0.8	0.9	0.9	0.9	0.7	0.8	0.9	1.1	1.2	1.2
Long Term												
Full Simulation Period[a]	1.2	1.1	1.2	1.3	1.6	1.5	1.1	1.0	1.1	1.3	1.3	1.4
Water Year Types[b]												
Wet (31%)	1.3	1.4	1.9	1.8	2.6	2.5	1.6	1.2	1.3	1.4	1.4	1.7
Above Normal (25%)	1.2	1.0	1.1	2.1	2.4	1.9	1.2	1.1	1.0	1.2	1.3	1.3
Below Normal (6%)	1.2	1.1	0.8	1.3	1.4	1.3	1.0	0.9	1.0	1.1	1.2	1.2
Dry (13%)	1.1	1.0	1.0	1.0	1.0	1.1	0.9	1.0	1.0	1.2	1.3	1.3
Critical (25%)	1.1	1.0	1.0	1.0	1.0	0.9	0.8	0.8	0.9	1.2	1.3	1.3

Alternative 2A,2B,2C (LLT) minus Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	2.1	1.9	2.0	1.9	1.9	1.9	2.0	2.0	2.1	2.1	2.1	2.1
20%	2.1	2.0	2.1	2.0	2.0	2.0	2.0	2.2	2.1	2.1	2.1	2.1
30%	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1
40%	2.2	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
50%	2.1	2.1	2.2	2.2	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
60%	2.1	2.2	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
70%	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
80%	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
90%	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Long Term												
Full Simulation Period[a]	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1
Water Year Types[b]												
Wet (31%)	2.1	2.0	2.1	2.1	1.9	1.9	2.0	2.0	2.0	2.1	2.1	2.1
Above Normal (25%)	2.1	2.1	2.1	1.9	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1
Below Normal (6%)	2.1	2.1	2.1	2.1	1.9	2.0	2.1	2.0	2.1	2.1	2.0	2.1
Dry (13%)	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
Critical (25%)	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-32-2-4. Sacramento River at Rio Vista, Monthly Averaged Daily Minimum Elevation

Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	-0.7	-0.5	-0.1	0.2	1.2	0.5	-0.2	-0.7	-0.9	-0.6	-0.6	-0.5
20%	-0.9	-0.8	-0.9	-0.3	0.0	0.1	-0.9	-1.0	-1.0	-0.8	-0.7	-0.6
30%	-0.9	-1.0	-1.0	-0.5	-0.3	-0.4	-1.0	-1.1	-1.1	-0.9	-0.7	-0.7
40%	-1.0	-1.0	-1.0	-0.8	-0.8	-0.7	-1.1	-1.1	-1.1	-0.9	-0.7	-0.7
50%	-1.0	-1.1	-1.1	-1.0	-0.9	-0.7	-1.1	-1.2	-1.1	-0.9	-0.8	-0.8
60%	-1.0	-1.2	-1.1	-1.1	-1.0	-0.8	-1.1	-1.2	-1.1	-0.9	-0.8	-0.8
70%	-1.0	-1.2	-1.2	-1.1	-1.0	-1.0	-1.2	-1.2	-1.1	-0.9	-0.8	-0.8
80%	-1.0	-1.2	-1.3	-1.2	-1.1	-1.2	-1.2	-1.3	-1.2	-1.0	-0.8	-0.8
90%	-1.1	-1.3	-1.4	-1.3	-1.2	-1.2	-1.4	-1.4	-1.2	-1.0	-0.9	-0.9
Long Term												
Full Simulation Period[a]	-0.9	-1.0	-0.9	-0.7	-0.4	-0.5	-0.9	-1.1	-1.0	-0.9	-0.8	-0.7
Water Year Types[b]												
Wet (31%)	-0.8	-0.5	-0.2	-0.3	0.6	0.7	-0.4	-0.8	-0.7	-0.7	-0.6	-0.4
Above Normal (25%)	-1.0	-1.1	-1.0	0.2	0.4	-0.1	-0.8	-1.0	-1.1	-0.9	-0.7	-0.8
Below Normal (6%)	-0.8	-1.1	-1.3	-0.8	-0.6	-0.6	-1.1	-1.1	-1.1	-1.0	-0.8	-0.8
Dry (13%)	-1.0	-1.2	-1.1	-1.2	-1.1	-0.9	-1.2	-1.2	-1.1	-0.9	-0.8	-0.8
Critical (25%)	-1.0	-1.1	-1.2	-1.2	-1.1	-1.1	-1.3	-1.3	-1.2	-0.9	-0.8	-0.8

Alternative 3 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.3	1.5	1.9	2.1	3.1	2.4	1.8	1.2	1.2	1.5	1.5	1.6
20%	1.3	1.2	1.2	1.8	2.1	2.0	1.1	1.1	1.1	1.3	1.4	1.4
30%	1.2	1.1	1.1	1.5	1.7	1.6	1.0	1.0	1.0	1.3	1.4	1.4
40%	1.2	1.0	1.1	1.3	1.3	1.3	1.0	0.9	1.0	1.3	1.3	1.3
50%	1.1	1.0	1.1	1.1	1.1	1.3	1.0	0.9	1.0	1.2	1.3	1.3
60%	1.1	1.0	1.0	1.1	1.1	1.2	0.9	0.9	1.0	1.2	1.3	1.3
70%	1.1	0.9	1.0	1.0	1.1	1.0	0.9	0.9	1.0	1.2	1.3	1.3
80%	1.1	0.9	0.8	0.9	1.0	0.9	0.8	0.8	1.0	1.2	1.2	1.2
90%	1.1	0.9	0.8	0.9	0.9	0.9	0.7	0.8	0.9	1.1	1.2	1.2
Long Term												
Full Simulation Period[a]	1.2	1.1	1.2	1.3	1.6	1.5	1.1	1.0	1.1	1.3	1.3	1.4
Water Year Types[b]												
Wet (31%)	1.3	1.5	1.9	1.8	2.6	2.5	1.6	1.2	1.3	1.4	1.4	1.6
Above Normal (25%)	1.2	1.0	1.1	2.1	2.4	1.9	1.2	1.0	1.0	1.2	1.3	1.3
Below Normal (6%)	1.3	1.0	0.8	1.3	1.4	1.4	1.0	0.9	1.0	1.1	1.2	1.2
Dry (13%)	1.1	0.9	1.0	1.0	1.0	1.1	0.9	1.0	1.0	1.2	1.3	1.3
Critical (25%)	1.2	1.0	1.0	1.0	1.0	0.9	0.8	0.8	0.9	1.2	1.3	1.3

Alternative 3 (LLT) minus Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	2.1	2.0	2.0	1.9	1.9	1.9	2.0	2.0	2.1	2.1	2.1	2.0
20%	2.1	2.0	2.1	2.0	2.1	2.0	2.0	2.1	2.1	2.1	2.1	2.1
30%	2.2	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1
40%	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
50%	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
60%	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
70%	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
80%	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
90%	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Long Term												
Full Simulation Period[a]	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1
Water Year Types[b]												
Wet (31%)	2.1	2.0	2.1	2.1	2.0	1.9	2.0	2.0	2.0	2.1	2.1	2.0
Above Normal (25%)	2.1	2.1	2.1	1.9	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.0
Below Normal (6%)	2.1	2.1	2.1	2.1	1.9	2.0	2.0	2.0	2.1	2.1	2.1	2.1
Dry (13%)	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
Critical (25%)	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-32-2-5. Sacramento River at Rio Vista, Monthly Averaged Daily Minimum Elevation

Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	-0.7	-0.5	-0.1	0.2	1.2	0.5	-0.2	-0.7	-0.9	-0.6	-0.6	-0.5
20%	-0.9	-0.8	-0.9	-0.3	0.0	0.1	-0.9	-1.0	-1.0	-0.8	-0.7	-0.6
30%	-0.9	-1.0	-1.0	-0.5	-0.3	-0.4	-1.0	-1.1	-1.1	-0.9	-0.7	-0.7
40%	-1.0	-1.0	-1.0	-0.8	-0.8	-0.7	-1.1	-1.1	-1.1	-0.9	-0.7	-0.7
50%	-1.0	-1.1	-1.1	-1.0	-0.9	-0.7	-1.1	-1.2	-1.1	-0.9	-0.8	-0.8
60%	-1.0	-1.2	-1.1	-1.1	-1.0	-0.8	-1.1	-1.2	-1.1	-0.9	-0.8	-0.8
70%	-1.0	-1.2	-1.2	-1.1	-1.0	-1.0	-1.2	-1.2	-1.1	-0.9	-0.8	-0.8
80%	-1.0	-1.2	-1.3	-1.2	-1.1	-1.2	-1.2	-1.3	-1.2	-1.0	-0.8	-0.8
90%	-1.1	-1.3	-1.4	-1.3	-1.2	-1.2	-1.4	-1.4	-1.2	-1.0	-0.9	-0.9
Long Term												
Full Simulation Period[a]	-0.9	-1.0	-0.9	-0.7	-0.4	-0.5	-0.9	-1.1	-1.0	-0.9	-0.8	-0.7
Water Year Types[b]												
Wet (31%)	-0.8	-0.5	-0.2	-0.3	0.6	0.7	-0.4	-0.8	-0.7	-0.7	-0.6	-0.4
Above Normal (25%)	-1.0	-1.1	-1.0	0.2	0.4	-0.1	-0.8	-1.0	-1.1	-0.9	-0.7	-0.8
Below Normal (6%)	-0.8	-1.1	-1.3	-0.8	-0.6	-0.6	-1.1	-1.1	-1.1	-1.0	-0.8	-0.8
Dry (13%)	-1.0	-1.2	-1.1	-1.2	-1.1	-0.9	-1.2	-1.2	-1.1	-0.9	-0.8	-0.8
Critical (25%)	-1.0	-1.1	-1.2	-1.2	-1.1	-1.1	-1.3	-1.3	-1.2	-0.9	-0.8	-0.8

Alternative 4 H1 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.4	1.5	1.9	2.1	3.1	2.3	1.8	1.2	1.2	1.5	1.5	1.6
20%	1.3	1.2	1.2	1.7	2.1	2.0	1.1	1.1	1.1	1.3	1.4	1.4
30%	1.2	1.1	1.1	1.5	1.7	1.5	1.0	1.0	1.1	1.3	1.4	1.4
40%	1.2	1.0	1.1	1.3	1.3	1.3	1.0	0.9	1.0	1.3	1.4	1.3
50%	1.1	1.0	1.1	1.1	1.2	1.3	1.0	0.9	1.0	1.2	1.3	1.3
60%	1.1	1.0	1.1	1.1	1.1	1.2	0.9	0.9	1.0	1.2	1.3	1.3
70%	1.1	0.9	1.0	1.0	1.1	1.0	0.9	0.9	1.0	1.2	1.3	1.3
80%	1.1	0.9	0.8	1.0	1.0	0.9	0.8	0.8	1.0	1.2	1.2	1.2
90%	1.1	0.9	0.8	0.9	0.9	0.8	0.7	0.8	0.9	1.1	1.2	1.2
Long Term												
Full Simulation Period[a]	1.2	1.1	1.2	1.4	1.6	1.5	1.1	1.0	1.1	1.3	1.3	1.4
Water Year Types[b]												
Wet (31%)	1.3	1.5	1.9	1.8	2.6	2.5	1.6	1.2	1.3	1.4	1.4	1.6
Above Normal (25%)	1.1	1.0	1.1	2.1	2.4	1.9	1.2	1.1	1.0	1.2	1.3	1.3
Below Normal (6%)	1.3	1.0	0.8	1.3	1.4	1.4	1.0	0.9	1.0	1.1	1.2	1.2
Dry (13%)	1.1	0.9	1.0	1.0	1.0	1.1	0.9	1.0	1.0	1.2	1.3	1.3
Critical (25%)	1.1	1.0	1.0	1.0	1.0	0.9	0.8	0.8	0.9	1.2	1.3	1.3

Alternative 4 H1 (LLT) minus Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	2.1	2.0	2.0	1.9	1.9	1.9	2.0	2.0	2.1	2.1	2.1	2.0
20%	2.1	2.0	2.1	2.0	2.1	2.0	2.0	2.2	2.1	2.1	2.1	2.1
30%	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1
40%	2.2	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
50%	2.1	2.1	2.2	2.2	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
60%	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
70%	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
80%	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
90%	2.1	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Long Term												
Full Simulation Period[a]	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1
Water Year Types[b]												
Wet (31%)	2.1	2.0	2.1	2.1	1.9	1.9	2.0	2.0	2.0	2.1	2.1	2.0
Above Normal (25%)	2.1	2.1	2.1	1.9	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.0
Below Normal (6%)	2.1	2.1	2.1	2.1	1.9	2.0	2.1	2.0	2.1	2.1	2.0	2.1
Dry (13%)	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
Critical (25%)	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-32-2-6. Sacramento River at Rio Vista, Monthly Averaged Daily Minimum Elevation

Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	-0.7	-0.5	-0.1	0.2	1.2	0.5	-0.2	-0.7	-0.9	-0.6	-0.6	-0.5
20%	-0.9	-0.8	-0.9	-0.3	0.0	0.1	-0.9	-1.0	-1.0	-0.8	-0.7	-0.6
30%	-0.9	-1.0	-1.0	-0.5	-0.3	-0.4	-1.0	-1.1	-1.1	-0.9	-0.7	-0.7
40%	-1.0	-1.0	-1.0	-0.8	-0.8	-0.7	-1.1	-1.1	-1.1	-0.9	-0.7	-0.7
50%	-1.0	-1.1	-1.1	-1.0	-0.9	-0.7	-1.1	-1.2	-1.1	-0.9	-0.8	-0.8
60%	-1.0	-1.2	-1.1	-1.1	-1.0	-0.8	-1.1	-1.2	-1.1	-0.9	-0.8	-0.8
70%	-1.0	-1.2	-1.2	-1.1	-1.0	-1.0	-1.2	-1.2	-1.1	-0.9	-0.8	-0.8
80%	-1.0	-1.2	-1.3	-1.2	-1.1	-1.2	-1.2	-1.3	-1.2	-1.0	-0.8	-0.8
90%	-1.1	-1.3	-1.4	-1.3	-1.2	-1.2	-1.4	-1.4	-1.2	-1.0	-0.9	-0.9
Long Term												
Full Simulation Period[a]	-0.9	-1.0	-0.9	-0.7	-0.4	-0.5	-0.9	-1.1	-1.0	-0.9	-0.8	-0.7
Water Year Types[b]												
Wet (31%)	-0.8	-0.5	-0.2	-0.3	0.6	0.7	-0.4	-0.8	-0.7	-0.7	-0.6	-0.4
Above Normal (25%)	-1.0	-1.1	-1.0	0.2	0.4	-0.1	-0.8	-1.0	-1.1	-0.9	-0.7	-0.8
Below Normal (6%)	-0.8	-1.1	-1.3	-0.8	-0.6	-0.6	-1.1	-1.1	-1.1	-1.0	-0.8	-0.8
Dry (13%)	-1.0	-1.2	-1.1	-1.2	-1.1	-0.9	-1.2	-1.2	-1.1	-0.9	-0.8	-0.8
Critical (25%)	-1.0	-1.1	-1.2	-1.2	-1.1	-1.1	-1.3	-1.3	-1.2	-0.9	-0.8	-0.8

Alternative 4 H2 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.4	1.5	1.9	2.1	3.1	2.4	1.8	1.2	1.2	1.5	1.5	1.6
20%	1.2	1.2	1.2	1.7	2.1	2.0	1.2	1.1	1.1	1.3	1.4	1.4
30%	1.2	1.1	1.2	1.5	1.7	1.5	1.1	1.0	1.1	1.3	1.4	1.4
40%	1.2	1.0	1.1	1.3	1.3	1.3	1.0	0.9	1.0	1.2	1.4	1.3
50%	1.1	1.0	1.1	1.1	1.2	1.3	1.0	0.9	1.0	1.2	1.3	1.3
60%	1.1	1.0	1.0	1.1	1.1	1.2	1.0	0.9	1.0	1.2	1.3	1.3
70%	1.1	0.9	1.0	1.0	1.1	1.0	0.9	0.9	1.0	1.2	1.3	1.3
80%	1.1	0.9	0.8	0.9	1.0	0.9	0.9	0.8	1.0	1.1	1.2	1.2
90%	1.0	0.9	0.8	0.9	0.9	0.9	0.7	0.8	0.9	1.1	1.2	1.2
Long Term												
Full Simulation Period[a]	1.2	1.1	1.2	1.4	1.6	1.5	1.1	1.0	1.1	1.3	1.3	1.4
Water Year Types[b]												
Wet (31%)	1.3	1.5	1.9	1.8	2.6	2.5	1.6	1.2	1.3	1.4	1.4	1.6
Above Normal (25%)	1.2	1.0	1.1	2.1	2.5	1.9	1.3	1.1	1.0	1.2	1.3	1.3
Below Normal (6%)	1.2	1.0	0.8	1.3	1.4	1.4	1.0	0.9	1.0	1.1	1.2	1.2
Dry (13%)	1.1	0.9	1.0	1.0	1.0	1.1	0.9	1.0	1.0	1.2	1.3	1.3
Critical (25%)	1.1	1.0	1.0	1.0	1.0	0.9	0.8	0.8	0.9	1.2	1.3	1.3

Alternative 4 H2 (LLT) minus Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	2.1	2.0	2.0	2.0	1.9	1.9	2.0	2.0	2.1	2.1	2.1	2.0
20%	2.1	2.0	2.1	2.0	2.1	2.0	2.1	2.2	2.1	2.1	2.1	2.1
30%	2.1	2.1	2.1	2.1	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1
40%	2.2	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
50%	2.1	2.1	2.2	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
60%	2.1	2.1	2.1	2.2	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
70%	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
80%	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
90%	2.1	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Long Term												
Full Simulation Period[a]	2.1	2.1	2.1	2.1	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1
Water Year Types[b]												
Wet (31%)	2.1	2.0	2.1	2.1	1.9	1.9	2.0	2.0	2.0	2.1	2.1	2.0
Above Normal (25%)	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.0
Below Normal (6%)	2.1	2.1	2.1	2.1	1.9	2.0	2.1	2.1	2.1	2.1	2.1	2.1
Dry (13%)	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
Critical (25%)	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-32-2-7. Sacramento River at Rio Vista, Monthly Averaged Daily Minimum Elevation

Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	-0.7	-0.5	-0.1	0.2	1.2	0.5	-0.2	-0.7	-0.9	-0.6	-0.6	-0.5
20%	-0.9	-0.8	-0.9	-0.3	0.0	0.1	-0.9	-1.0	-1.0	-0.8	-0.7	-0.6
30%	-0.9	-1.0	-1.0	-0.5	-0.3	-0.4	-1.0	-1.1	-1.1	-0.9	-0.7	-0.7
40%	-1.0	-1.0	-1.0	-0.8	-0.8	-0.7	-1.1	-1.1	-1.1	-0.9	-0.7	-0.7
50%	-1.0	-1.1	-1.1	-1.0	-0.9	-0.7	-1.1	-1.2	-1.1	-0.9	-0.8	-0.8
60%	-1.0	-1.2	-1.1	-1.1	-1.0	-0.8	-1.1	-1.2	-1.1	-0.9	-0.8	-0.8
70%	-1.0	-1.2	-1.2	-1.1	-1.0	-1.0	-1.2	-1.2	-1.1	-0.9	-0.8	-0.8
80%	-1.0	-1.2	-1.3	-1.2	-1.1	-1.2	-1.2	-1.3	-1.2	-1.0	-0.8	-0.8
90%	-1.1	-1.3	-1.4	-1.3	-1.2	-1.2	-1.4	-1.4	-1.2	-1.0	-0.9	-0.9
Long Term												
Full Simulation Period[a]	-0.9	-1.0	-0.9	-0.7	-0.4	-0.5	-0.9	-1.1	-1.0	-0.9	-0.8	-0.7
Water Year Types[b]												
Wet (31%)	-0.8	-0.5	-0.2	-0.3	0.6	0.7	-0.4	-0.8	-0.7	-0.7	-0.6	-0.4
Above Normal (25%)	-1.0	-1.1	-1.0	0.2	0.4	-0.1	-0.8	-1.0	-1.1	-0.9	-0.7	-0.8
Below Normal (6%)	-0.8	-1.1	-1.3	-0.8	-0.6	-0.6	-1.1	-1.1	-1.1	-1.0	-0.8	-0.8
Dry (13%)	-1.0	-1.2	-1.1	-1.2	-1.1	-0.9	-1.2	-1.2	-1.1	-0.9	-0.8	-0.8
Critical (25%)	-1.0	-1.1	-1.2	-1.2	-1.1	-1.1	-1.3	-1.3	-1.2	-0.9	-0.8	-0.8

Alternative 4 H3 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.3	1.5	1.9	2.1	3.1	2.3	1.8	1.2	1.2	1.5	1.5	1.7
20%	1.2	1.2	1.2	1.7	2.1	2.0	1.1	1.1	1.1	1.3	1.4	1.4
30%	1.2	1.1	1.1	1.5	1.7	1.5	1.0	1.0	1.1	1.3	1.4	1.4
40%	1.2	1.1	1.1	1.3	1.3	1.3	1.0	0.9	1.0	1.3	1.4	1.4
50%	1.1	1.0	1.1	1.1	1.2	1.2	1.0	0.9	1.0	1.2	1.3	1.3
60%	1.1	1.0	1.1	1.1	1.1	1.2	0.9	0.9	1.0	1.2	1.3	1.3
70%	1.1	0.9	1.0	1.0	1.1	1.0	0.9	0.9	1.0	1.2	1.3	1.3
80%	1.1	0.9	0.8	0.9	1.0	0.9	0.8	0.8	1.0	1.2	1.2	1.3
90%	1.1	0.9	0.8	0.9	0.9	0.8	0.7	0.8	0.9	1.1	1.2	1.2
Long Term												
Full Simulation Period[a]	1.2	1.1	1.2	1.3	1.6	1.5	1.1	1.0	1.1	1.3	1.3	1.4
Water Year Types[b]												
Wet (31%)	1.3	1.4	1.9	1.8	2.6	2.5	1.6	1.2	1.3	1.4	1.4	1.7
Above Normal (25%)	1.2	1.0	1.1	2.1	2.4	1.9	1.2	1.1	1.0	1.2	1.3	1.3
Below Normal (6%)	1.2	1.1	0.8	1.3	1.4	1.3	1.0	0.9	1.0	1.1	1.2	1.2
Dry (13%)	1.1	1.0	1.0	1.0	1.0	1.1	0.9	1.0	1.0	1.2	1.3	1.3
Critical (25%)	1.1	1.0	1.0	1.0	1.0	0.9	0.8	0.8	0.9	1.2	1.3	1.3

Alternative 4 H3 (LLT) minus Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	2.0	2.0	2.0	1.9	1.9	1.9	2.0	2.0	2.1	2.1	2.1	2.1
20%	2.1	2.0	2.1	2.0	2.1	2.0	2.0	2.2	2.1	2.1	2.1	2.1
30%	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1
40%	2.2	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
50%	2.1	2.1	2.2	2.2	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
60%	2.1	2.2	2.2	2.2	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
70%	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
80%	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
90%	2.1	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Long Term												
Full Simulation Period[a]	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1
Water Year Types[b]												
Wet (31%)	2.1	2.0	2.1	2.1	1.9	1.8	2.0	2.0	2.0	2.1	2.1	2.1
Above Normal (25%)	2.1	2.1	2.1	1.9	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1
Below Normal (6%)	2.1	2.1	2.1	2.1	1.9	2.0	2.1	2.0	2.1	2.1	2.0	2.1
Dry (13%)	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
Critical (25%)	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-32-2-8. Sacramento River at Rio Vista, Monthly Averaged Daily Minimum Elevation

Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	-0.7	-0.5	-0.1	0.2	1.2	0.5	-0.2	-0.7	-0.9	-0.6	-0.6	-0.5
20%	-0.9	-0.8	-0.9	-0.3	0.0	0.1	-0.9	-1.0	-1.0	-0.8	-0.7	-0.6
30%	-0.9	-1.0	-1.0	-0.5	-0.3	-0.4	-1.0	-1.1	-1.1	-0.9	-0.7	-0.7
40%	-1.0	-1.0	-1.0	-0.8	-0.8	-0.7	-1.1	-1.1	-1.1	-0.9	-0.7	-0.7
50%	-1.0	-1.1	-1.1	-1.0	-0.9	-0.7	-1.1	-1.2	-1.1	-0.9	-0.8	-0.8
60%	-1.0	-1.2	-1.1	-1.1	-1.0	-0.8	-1.1	-1.2	-1.1	-0.9	-0.8	-0.8
70%	-1.0	-1.2	-1.2	-1.1	-1.0	-1.0	-1.2	-1.2	-1.1	-0.9	-0.8	-0.8
80%	-1.0	-1.2	-1.3	-1.2	-1.1	-1.2	-1.2	-1.3	-1.2	-1.0	-0.8	-0.8
90%	-1.1	-1.3	-1.4	-1.3	-1.2	-1.2	-1.4	-1.4	-1.2	-1.0	-0.9	-0.9
Long Term												
Full Simulation Period[a]	-0.9	-1.0	-0.9	-0.7	-0.4	-0.5	-0.9	-1.1	-1.0	-0.9	-0.8	-0.7
Water Year Types[b]												
Wet (31%)	-0.8	-0.5	-0.2	-0.3	0.6	0.7	-0.4	-0.8	-0.7	-0.7	-0.6	-0.4
Above Normal (25%)	-1.0	-1.1	-1.0	0.2	0.4	-0.1	-0.8	-1.0	-1.1	-0.9	-0.7	-0.8
Below Normal (6%)	-0.8	-1.1	-1.3	-0.8	-0.6	-0.6	-1.1	-1.1	-1.1	-1.0	-0.8	-0.8
Dry (13%)	-1.0	-1.2	-1.1	-1.2	-1.1	-0.9	-1.2	-1.2	-1.1	-0.9	-0.8	-0.8
Critical (25%)	-1.0	-1.1	-1.2	-1.2	-1.1	-1.1	-1.3	-1.3	-1.2	-0.9	-0.8	-0.8

Alternative 4 H4 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.3	1.5	1.9	2.1	3.1	2.4	1.8	1.2	1.2	1.5	1.5	1.7
20%	1.2	1.2	1.2	1.7	2.1	2.0	1.2	1.1	1.1	1.3	1.4	1.4
30%	1.2	1.1	1.1	1.5	1.7	1.5	1.1	1.0	1.1	1.3	1.4	1.4
40%	1.2	1.1	1.1	1.3	1.3	1.3	1.0	0.9	1.0	1.2	1.4	1.4
50%	1.1	1.0	1.1	1.1	1.2	1.3	1.0	0.9	1.0	1.2	1.3	1.3
60%	1.1	1.0	1.0	1.1	1.1	1.2	1.0	0.9	1.0	1.2	1.3	1.3
70%	1.1	0.9	1.0	1.0	1.1	1.0	0.9	0.9	1.0	1.2	1.3	1.3
80%	1.1	0.9	0.8	0.9	1.0	0.9	0.9	0.8	1.0	1.1	1.2	1.3
90%	1.1	0.9	0.8	0.9	0.9	0.9	0.7	0.8	0.9	1.1	1.2	1.2
Long Term												
Full Simulation Period[a]	1.2	1.1	1.2	1.3	1.6	1.5	1.1	1.0	1.1	1.3	1.3	1.4
Water Year Types[b]												
Wet (31%)	1.3	1.4	1.9	1.8	2.6	2.5	1.6	1.2	1.3	1.4	1.4	1.7
Above Normal (25%)	1.2	1.0	1.1	2.1	2.4	1.9	1.3	1.1	1.0	1.2	1.3	1.3
Below Normal (6%)	1.2	1.1	0.8	1.3	1.4	1.3	1.0	0.9	1.0	1.1	1.2	1.2
Dry (13%)	1.1	1.0	1.0	1.0	1.0	1.1	0.9	1.0	1.0	1.2	1.3	1.3
Critical (25%)	1.1	1.0	1.0	1.0	1.0	0.9	0.8	0.8	0.9	1.2	1.3	1.3

Alternative 4 H4 (LLT) minus Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	2.0	2.0	2.0	2.0	1.9	1.9	2.0	2.0	2.1	2.1	2.1	2.1
20%	2.1	2.0	2.1	2.0	2.1	2.0	2.1	2.2	2.1	2.1	2.1	2.1
30%	2.1	2.1	2.1	2.1	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1
40%	2.2	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
50%	2.1	2.1	2.2	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
60%	2.1	2.2	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
70%	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
80%	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
90%	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Long Term												
Full Simulation Period[a]	2.1	2.1	2.1	2.1	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1
Water Year Types[b]												
Wet (31%)	2.1	2.0	2.1	2.1	1.9	1.9	2.0	2.0	2.0	2.1	2.1	2.1
Above Normal (25%)	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1
Below Normal (6%)	2.1	2.1	2.1	2.1	1.9	2.0	2.1	2.1	2.1	2.1	2.0	2.1
Dry (13%)	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
Critical (25%)	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-32-2-9. Sacramento River at Rio Vista, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.7	-0.5	-0.1	0.2	1.2	0.5	-0.2	-0.7	-0.9	-0.6	-0.6	-0.5
20%	-0.9	-0.8	-0.9	-0.3	0.0	0.1	-0.9	-1.0	-1.0	-0.8	-0.7	-0.6
30%	-0.9	-1.0	-1.0	-0.5	-0.3	-0.4	-1.0	-1.1	-1.1	-0.9	-0.7	-0.7
40%	-1.0	-1.0	-1.0	-0.8	-0.8	-0.7	-1.1	-1.1	-1.1	-0.9	-0.7	-0.7
50%	-1.0	-1.1	-1.1	-1.0	-0.9	-0.7	-1.1	-1.2	-1.1	-0.9	-0.8	-0.8
60%	-1.0	-1.2	-1.1	-1.1	-1.0	-0.8	-1.1	-1.2	-1.1	-0.9	-0.8	-0.8
70%	-1.0	-1.2	-1.2	-1.1	-1.0	-1.0	-1.2	-1.2	-1.1	-0.9	-0.8	-0.8
80%	-1.0	-1.2	-1.3	-1.2	-1.1	-1.2	-1.2	-1.3	-1.2	-1.0	-0.8	-0.8
90%	-1.1	-1.3	-1.4	-1.3	-1.2	-1.2	-1.4	-1.4	-1.2	-1.0	-0.9	-0.9
Long Term												
Full Simulation Period[a]	-0.9	-1.0	-0.9	-0.7	-0.4	-0.5	-0.9	-1.1	-1.0	-0.9	-0.8	-0.7
Water Year Types[b]												
Wet (31%)	-0.8	-0.5	-0.2	-0.3	0.6	0.7	-0.4	-0.8	-0.7	-0.7	-0.6	-0.4
Above Normal (25%)	-1.0	-1.1	-1.0	0.2	0.4	-0.1	-0.8	-1.0	-1.1	-0.9	-0.7	-0.8
Below Normal (6%)	-0.8	-1.1	-1.3	-0.8	-0.6	-0.6	-1.1	-1.1	-1.1	-1.0	-0.8	-0.8
Dry (13%)	-1.0	-1.2	-1.1	-1.2	-1.1	-0.9	-1.2	-1.2	-1.1	-0.9	-0.8	-0.8
Critical (25%)	-1.0	-1.1	-1.2	-1.2	-1.1	-1.1	-1.3	-1.3	-1.2	-0.9	-0.8	-0.8

Alternative 5 (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.4	1.5	1.9	2.1	3.1	2.3	1.8	1.2	1.2	1.5	1.5	1.7
20%	1.2	1.2	1.2	1.8	2.1	2.1	1.1	1.1	1.1	1.3	1.4	1.4
30%	1.2	1.1	1.1	1.5	1.7	1.5	1.0	1.0	1.1	1.3	1.4	1.4
40%	1.2	1.1	1.1	1.3	1.3	1.3	1.0	0.9	1.0	1.3	1.4	1.4
50%	1.1	1.0	1.1	1.1	1.1	1.3	1.0	0.9	1.0	1.2	1.3	1.3
60%	1.1	1.0	1.0	1.1	1.1	1.2	1.0	0.9	1.0	1.2	1.3	1.3
70%	1.1	0.9	1.0	1.0	1.1	1.0	0.9	0.9	1.0	1.2	1.3	1.3
80%	1.1	0.9	0.8	0.9	1.0	0.9	0.8	0.8	1.0	1.2	1.2	1.3
90%	1.1	0.9	0.8	0.9	0.9	0.8	0.7	0.8	0.9	1.1	1.2	1.2
Long Term												
Full Simulation Period[a]	1.2	1.1	1.2	1.3	1.6	1.5	1.1	1.0	1.1	1.3	1.3	1.4
Water Year Types[b]												
Wet (31%)	1.3	1.5	1.9	1.8	2.6	2.5	1.6	1.2	1.3	1.4	1.4	1.7
Above Normal (25%)	1.1	1.0	1.1	2.1	2.4	1.9	1.2	1.1	1.0	1.2	1.3	1.3
Below Normal (6%)	1.2	1.1	0.8	1.3	1.4	1.4	1.0	0.9	1.0	1.1	1.2	1.2
Dry (13%)	1.1	1.0	1.0	1.0	1.0	1.1	0.9	1.0	1.0	1.2	1.3	1.3
Critical (25%)	1.1	1.0	1.0	1.0	1.0	0.9	0.8	0.8	0.9	1.2	1.3	1.3

Alternative 5 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.1	2.0	2.0	2.0	1.9	1.9	2.0	2.0	2.1	2.1	2.1	2.1
20%	2.1	2.0	2.1	2.0	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
30%	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1
40%	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
50%	2.1	2.1	2.2	2.2	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
60%	2.1	2.2	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
70%	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
80%	2.1	2.2	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
90%	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Long Term												
Full Simulation Period[a]	2.1	2.1	2.1	2.1	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1
Water Year Types[b]												
Wet (31%)	2.1	2.0	2.1	2.1	2.0	1.9	2.0	2.0	2.0	2.1	2.1	2.1
Above Normal (25%)	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1
Below Normal (6%)	2.1	2.1	2.1	2.1	1.9	2.0	2.1	2.0	2.1	2.1	2.1	2.1
Dry (13%)	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.2	2.1	2.1	2.1
Critical (25%)	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-32-2-10. Sacramento River at Rio Vista, Monthly Averaged Daily Minimum Elevation

Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	-0.7	-0.5	-0.1	0.2	1.2	0.5	-0.2	-0.7	-0.9	-0.6	-0.6	-0.5
20%	-0.9	-0.8	-0.9	-0.3	0.0	0.1	-0.9	-1.0	-1.0	-0.8	-0.7	-0.6
30%	-0.9	-1.0	-1.0	-0.5	-0.3	-0.4	-1.0	-1.1	-1.1	-0.9	-0.7	-0.7
40%	-1.0	-1.0	-1.0	-0.8	-0.8	-0.7	-1.1	-1.1	-1.1	-0.9	-0.7	-0.7
50%	-1.0	-1.1	-1.1	-1.0	-0.9	-0.7	-1.1	-1.2	-1.1	-0.9	-0.8	-0.8
60%	-1.0	-1.2	-1.1	-1.1	-1.0	-0.8	-1.1	-1.2	-1.1	-0.9	-0.8	-0.8
70%	-1.0	-1.2	-1.2	-1.1	-1.0	-1.0	-1.2	-1.2	-1.1	-0.9	-0.8	-0.8
80%	-1.0	-1.2	-1.3	-1.2	-1.1	-1.2	-1.2	-1.3	-1.2	-1.0	-0.8	-0.8
90%	-1.1	-1.3	-1.4	-1.3	-1.2	-1.2	-1.4	-1.4	-1.2	-1.0	-0.9	-0.9
Long Term												
Full Simulation Period[a]	-0.9	-1.0	-0.9	-0.7	-0.4	-0.5	-0.9	-1.1	-1.0	-0.9	-0.8	-0.7
Water Year Types[b]												
Wet (31%)	-0.8	-0.5	-0.2	-0.3	0.6	0.7	-0.4	-0.8	-0.7	-0.7	-0.6	-0.4
Above Normal (25%)	-1.0	-1.1	-1.0	0.2	0.4	-0.1	-0.8	-1.0	-1.1	-0.9	-0.7	-0.8
Below Normal (6%)	-0.8	-1.1	-1.3	-0.8	-0.6	-0.6	-1.1	-1.1	-1.1	-1.0	-0.8	-0.8
Dry (13%)	-1.0	-1.2	-1.1	-1.2	-1.1	-0.9	-1.2	-1.2	-1.1	-0.9	-0.8	-0.8
Critical (25%)	-1.0	-1.1	-1.2	-1.2	-1.1	-1.1	-1.3	-1.3	-1.2	-0.9	-0.8	-0.8

Alternative 6A,6B,6C (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.3	1.6	2.0	2.1	3.1	2.3	1.8	1.2	1.2	1.4	1.5	1.6
20%	1.2	1.2	1.2	1.8	2.1	2.0	1.1	1.1	1.1	1.3	1.4	1.4
30%	1.2	1.1	1.2	1.5	1.7	1.5	1.0	1.0	1.1	1.2	1.4	1.4
40%	1.2	1.1	1.2	1.3	1.3	1.3	1.0	1.0	1.0	1.2	1.3	1.3
50%	1.1	1.0	1.1	1.1	1.2	1.3	1.0	0.9	1.0	1.2	1.3	1.3
60%	1.1	1.0	1.1	1.1	1.1	1.2	1.0	0.9	1.0	1.2	1.3	1.3
70%	1.1	1.0	1.0	1.1	1.1	1.0	0.9	0.9	1.0	1.1	1.3	1.3
80%	1.1	0.9	0.9	0.9	1.0	0.9	0.8	0.8	1.0	1.1	1.2	1.3
90%	1.1	0.9	0.8	0.9	0.9	0.9	0.7	0.8	0.9	1.1	1.1	1.2
Long Term												
Full Simulation Period[a]	1.2	1.1	1.3	1.4	1.6	1.5	1.1	1.0	1.1	1.2	1.3	1.4
Water Year Types[b]												
Wet (31%)	1.3	1.5	1.9	1.8	2.6	2.5	1.6	1.2	1.3	1.4	1.4	1.6
Above Normal (25%)	1.1	1.0	1.2	2.1	2.4	1.9	1.2	1.1	1.0	1.2	1.3	1.3
Below Normal (6%)	1.2	1.1	0.9	1.4	1.4	1.4	1.0	0.9	1.0	1.1	1.2	1.2
Dry (13%)	1.1	1.0	1.0	1.0	1.0	1.1	0.9	0.9	1.0	1.2	1.3	1.3
Critical (25%)	1.1	1.0	1.0	1.0	1.0	0.9	0.8	0.8	0.9	1.2	1.3	1.3

Alternative 6A,6B,6C (LLT) minus Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	2.1	2.0	2.1	1.9	1.9	1.9	1.9	2.0	2.1	2.1	2.1	2.1
20%	2.1	2.0	2.1	2.0	2.1	2.0	2.0	2.1	2.1	2.1	2.1	2.1
30%	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1
40%	2.1	2.1	2.2	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
50%	2.1	2.1	2.2	2.2	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
60%	2.1	2.2	2.1	2.2	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
70%	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
80%	2.1	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
90%	2.1	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Long Term												
Full Simulation Period[a]	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1
Water Year Types[b]												
Wet (31%)	2.1	2.0	2.1	2.1	1.9	1.9	2.0	2.0	2.0	2.1	2.1	2.1
Above Normal (25%)	2.1	2.1	2.2	1.9	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1
Below Normal (6%)	2.1	2.1	2.2	2.1	2.0	2.0	2.1	2.1	2.1	2.0	2.1	2.1
Dry (13%)	2.1	2.1	2.2	2.2	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
Critical (25%)	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-32-2-11. Sacramento River at Rio Vista, Monthly Averaged Daily Minimum Elevation

Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	-0.7	-0.5	-0.1	0.2	1.2	0.5	-0.2	-0.7	-0.9	-0.6	-0.6	-0.5
20%	-0.9	-0.8	-0.9	-0.3	0.0	0.1	-0.9	-1.0	-1.0	-0.8	-0.7	-0.6
30%	-0.9	-1.0	-1.0	-0.5	-0.3	-0.4	-1.0	-1.1	-1.1	-0.9	-0.7	-0.7
40%	-1.0	-1.0	-1.0	-0.8	-0.8	-0.7	-1.1	-1.1	-1.1	-0.9	-0.7	-0.7
50%	-1.0	-1.1	-1.1	-1.0	-0.9	-0.7	-1.1	-1.2	-1.1	-0.9	-0.8	-0.8
60%	-1.0	-1.2	-1.1	-1.1	-1.0	-0.8	-1.1	-1.2	-1.1	-0.9	-0.8	-0.8
70%	-1.0	-1.2	-1.2	-1.1	-1.0	-1.0	-1.2	-1.2	-1.1	-0.9	-0.8	-0.8
80%	-1.0	-1.2	-1.3	-1.2	-1.1	-1.2	-1.2	-1.3	-1.2	-1.0	-0.8	-0.8
90%	-1.1	-1.3	-1.4	-1.3	-1.2	-1.2	-1.4	-1.4	-1.2	-1.0	-0.9	-0.9
Long Term												
Full Simulation Period[a]	-0.9	-1.0	-0.9	-0.7	-0.4	-0.5	-0.9	-1.1	-1.0	-0.9	-0.8	-0.7
Water Year Types[b]												
Wet (31%)	-0.8	-0.5	-0.2	-0.3	0.6	0.7	-0.4	-0.8	-0.7	-0.7	-0.6	-0.4
Above Normal (25%)	-1.0	-1.1	-1.0	0.2	0.4	-0.1	-0.8	-1.0	-1.1	-0.9	-0.7	-0.8
Below Normal (6%)	-0.8	-1.1	-1.3	-0.8	-0.6	-0.6	-1.1	-1.1	-1.1	-1.0	-0.8	-0.8
Dry (13%)	-1.0	-1.2	-1.1	-1.2	-1.1	-0.9	-1.2	-1.2	-1.1	-0.9	-0.8	-0.8
Critical (25%)	-1.0	-1.1	-1.2	-1.2	-1.1	-1.1	-1.3	-1.3	-1.2	-0.9	-0.8	-0.8

Alternative 7 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.4	1.5	2.0	2.1	3.1	2.4	1.8	1.2	1.2	1.5	1.5	1.7
20%	1.2	1.2	1.2	1.8	2.1	2.0	1.1	1.1	1.1	1.3	1.4	1.4
30%	1.2	1.1	1.2	1.6	1.7	1.5	1.0	1.0	1.1	1.3	1.4	1.4
40%	1.2	1.1	1.2	1.3	1.3	1.3	1.0	1.0	1.0	1.2	1.4	1.4
50%	1.1	1.0	1.1	1.1	1.2	1.3	1.0	0.9	1.0	1.2	1.3	1.3
60%	1.1	1.0	1.1	1.1	1.1	1.2	1.0	0.9	1.0	1.2	1.3	1.3
70%	1.1	1.0	1.0	1.1	1.1	1.0	0.9	0.9	1.0	1.2	1.3	1.3
80%	1.1	0.9	0.9	0.9	1.0	0.9	0.8	0.8	1.0	1.2	1.2	1.3
90%	1.1	0.9	0.8	0.9	0.9	0.9	0.7	0.8	0.9	1.1	1.2	1.2
Long Term												
Full Simulation Period[a]	1.2	1.1	1.3	1.4	1.6	1.5	1.1	1.0	1.1	1.2	1.3	1.4
Water Year Types[b]												
Wet (31%)	1.3	1.5	1.9	1.8	2.6	2.5	1.6	1.2	1.3	1.4	1.4	1.7
Above Normal (25%)	1.1	1.0	1.2	2.1	2.4	1.9	1.2	1.1	1.0	1.2	1.3	1.3
Below Normal (6%)	1.2	1.1	0.9	1.4	1.4	1.4	1.0	0.9	1.0	1.1	1.2	1.2
Dry (13%)	1.1	1.0	1.0	1.0	1.0	1.1	0.9	0.9	1.0	1.2	1.3	1.3
Critical (25%)	1.1	1.0	1.0	1.0	1.0	0.9	0.8	0.8	1.0	1.2	1.3	1.3

Alternative 7 (LLT) minus Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	2.1	2.0	2.1	2.0	1.9	1.9	2.0	2.0	2.1	2.1	2.1	2.1
20%	2.1	2.0	2.1	2.0	2.1	1.9	2.1	2.1	2.1	2.1	2.1	2.1
30%	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.2	2.1	2.1	2.1
40%	2.1	2.1	2.2	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
50%	2.1	2.1	2.2	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
60%	2.1	2.2	2.1	2.2	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
70%	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.1
80%	2.1	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
90%	2.1	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Long Term												
Full Simulation Period[a]	2.1	2.1	2.1	2.1	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1
Water Year Types[b]												
Wet (31%)	2.1	2.0	2.1	2.1	1.9	1.8	2.0	2.0	2.0	2.1	2.1	2.1
Above Normal (25%)	2.1	2.1	2.2	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1
Below Normal (6%)	2.1	2.1	2.2	2.1	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1
Dry (13%)	2.1	2.1	2.2	2.2	2.1	2.0	2.1	2.1	2.2	2.1	2.1	2.1
Critical (25%)	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.1

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-32-2-12. Sacramento River at Rio Vista, Monthly Averaged Daily Minimum Elevation

Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	-0.7	-0.5	-0.1	0.2	1.2	0.5	-0.2	-0.7	-0.9	-0.6	-0.6	-0.5
20%	-0.9	-0.8	-0.9	-0.3	0.0	0.1	-0.9	-1.0	-1.0	-0.8	-0.7	-0.6
30%	-0.9	-1.0	-1.0	-0.5	-0.3	-0.4	-1.0	-1.1	-1.1	-0.9	-0.7	-0.7
40%	-1.0	-1.0	-1.0	-0.8	-0.8	-0.7	-1.1	-1.1	-1.1	-0.9	-0.7	-0.7
50%	-1.0	-1.1	-1.1	-1.0	-0.9	-0.7	-1.1	-1.2	-1.1	-0.9	-0.8	-0.8
60%	-1.0	-1.2	-1.1	-1.1	-1.0	-0.8	-1.1	-1.2	-1.1	-0.9	-0.8	-0.8
70%	-1.0	-1.2	-1.2	-1.1	-1.0	-1.0	-1.2	-1.2	-1.1	-0.9	-0.8	-0.8
80%	-1.0	-1.2	-1.3	-1.2	-1.1	-1.2	-1.2	-1.3	-1.2	-1.0	-0.8	-0.8
90%	-1.1	-1.3	-1.4	-1.3	-1.2	-1.2	-1.4	-1.4	-1.2	-1.0	-0.9	-0.9
Long Term												
Full Simulation Period[a]	-0.9	-1.0	-0.9	-0.7	-0.4	-0.5	-0.9	-1.1	-1.0	-0.9	-0.8	-0.7
Water Year Types[b]												
Wet (31%)	-0.8	-0.5	-0.2	-0.3	0.6	0.7	-0.4	-0.8	-0.7	-0.7	-0.6	-0.4
Above Normal (25%)	-1.0	-1.1	-1.0	0.2	0.4	-0.1	-0.8	-1.0	-1.1	-0.9	-0.7	-0.8
Below Normal (6%)	-0.8	-1.1	-1.3	-0.8	-0.6	-0.6	-1.1	-1.1	-1.1	-1.0	-0.8	-0.8
Dry (13%)	-1.0	-1.2	-1.1	-1.2	-1.1	-0.9	-1.2	-1.2	-1.1	-0.9	-0.8	-0.8
Critical (25%)	-1.0	-1.1	-1.2	-1.2	-1.1	-1.1	-1.3	-1.3	-1.2	-0.9	-0.8	-0.8

Alternative 8 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.4	1.6	2.0	2.2	3.1	2.3	1.8	1.3	1.2	1.5	1.5	1.7
20%	1.2	1.2	1.2	1.8	2.2	2.0	1.1	1.1	1.1	1.3	1.4	1.4
30%	1.2	1.1	1.2	1.6	1.7	1.6	1.0	1.0	1.1	1.3	1.4	1.4
40%	1.2	1.1	1.2	1.3	1.3	1.3	1.0	1.0	1.0	1.2	1.3	1.4
50%	1.1	1.0	1.1	1.2	1.2	1.3	1.0	1.0	1.0	1.2	1.3	1.3
60%	1.1	1.0	1.1	1.1	1.2	1.3	1.0	0.9	1.0	1.2	1.3	1.3
70%	1.1	1.0	1.0	1.1	1.1	1.1	0.9	0.9	1.0	1.2	1.3	1.3
80%	1.1	0.9	0.9	0.9	1.0	0.9	0.9	0.8	1.0	1.1	1.2	1.3
90%	1.1	0.9	0.8	0.9	0.9	0.9	0.8	0.8	0.9	1.1	1.2	1.2
Long Term												
Full Simulation Period[a]	1.2	1.1	1.3	1.4	1.6	1.5	1.1	1.0	1.1	1.2	1.3	1.4
Water Year Types[b]												
Wet (31%)	1.3	1.5	1.9	1.8	2.6	2.5	1.6	1.2	1.3	1.4	1.4	1.7
Above Normal (25%)	1.1	1.0	1.2	2.2	2.4	1.9	1.3	1.1	1.0	1.2	1.3	1.3
Below Normal (6%)	1.2	1.1	0.9	1.4	1.4	1.4	1.0	1.0	1.0	1.1	1.2	1.2
Dry (13%)	1.1	1.0	1.0	1.0	1.0	1.2	0.9	0.9	1.0	1.2	1.3	1.3
Critical (25%)	1.1	1.0	1.0	1.0	1.0	0.9	0.9	0.8	1.0	1.2	1.3	1.3

Alternative 8 (LLT) minus Existing Condition

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	2.1	2.0	2.1	2.0	1.9	1.9	2.0	2.0	2.1	2.1	2.1	2.1
20%	2.1	2.0	2.1	2.0	2.2	1.9	2.1	2.1	2.1	2.1	2.1	2.1
30%	2.1	2.1	2.1	2.1	2.0	2.0	2.1	2.1	2.2	2.1	2.1	2.1
40%	2.1	2.1	2.2	2.1	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1
50%	2.1	2.1	2.2	2.2	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
60%	2.1	2.2	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
70%	2.1	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.1
80%	2.1	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
90%	2.1	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Long Term												
Full Simulation Period[a]	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
Water Year Types[b]												
Wet (31%)	2.1	2.0	2.1	2.1	1.9	1.8	2.0	2.0	2.0	2.1	2.1	2.1
Above Normal (25%)	2.1	2.1	2.2	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1
Below Normal (6%)	2.1	2.1	2.2	2.1	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1
Dry (13%)	2.1	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.1
Critical (25%)	2.1	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.1

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-32-2-13. Sacramento River at Rio Vista, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.7	-0.5	-0.1	0.2	1.2	0.5	-0.2	-0.7	-0.9	-0.6	-0.6	-0.5
20%	-0.9	-0.8	-0.9	-0.3	0.0	0.1	-0.9	-1.0	-1.0	-0.8	-0.7	-0.6
30%	-0.9	-1.0	-1.0	-0.5	-0.3	-0.4	-1.0	-1.1	-1.1	-0.9	-0.7	-0.7
40%	-1.0	-1.0	-1.0	-0.8	-0.8	-0.7	-1.1	-1.1	-1.1	-0.9	-0.7	-0.7
50%	-1.0	-1.1	-1.1	-1.0	-0.9	-0.7	-1.1	-1.2	-1.1	-0.9	-0.8	-0.8
60%	-1.0	-1.2	-1.1	-1.1	-1.0	-0.8	-1.1	-1.2	-1.1	-0.9	-0.8	-0.8
70%	-1.0	-1.2	-1.2	-1.1	-1.0	-1.0	-1.2	-1.2	-1.1	-0.9	-0.8	-0.8
80%	-1.0	-1.2	-1.3	-1.2	-1.1	-1.2	-1.2	-1.3	-1.2	-1.0	-0.8	-0.8
90%	-1.1	-1.3	-1.4	-1.3	-1.2	-1.2	-1.4	-1.4	-1.2	-1.0	-0.9	-0.9
Long Term												
Full Simulation Period[a]	-0.9	-1.0	-0.9	-0.7	-0.4	-0.5	-0.9	-1.1	-1.0	-0.9	-0.8	-0.7
Water Year Types[b]												
Wet (31%)	-0.8	-0.5	-0.2	-0.3	0.6	0.7	-0.4	-0.8	-0.7	-0.7	-0.6	-0.4
Above Normal (25%)	-1.0	-1.1	-1.0	0.2	0.4	-0.1	-0.8	-1.0	-1.1	-0.9	-0.7	-0.8
Below Normal (6%)	-0.8	-1.1	-1.3	-0.8	-0.6	-0.6	-1.1	-1.1	-1.1	-1.0	-0.8	-0.8
Dry (13%)	-1.0	-1.2	-1.1	-1.2	-1.1	-0.9	-1.2	-1.2	-1.1	-0.9	-0.8	-0.8
Critical (25%)	-1.0	-1.1	-1.2	-1.2	-1.1	-1.1	-1.3	-1.3	-1.2	-0.9	-0.8	-0.8

Alternative 9 (LLT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.3	1.5	1.9	2.2	3.2	2.4	1.8	1.2	1.2	1.4	1.4	1.6
20%	1.2	1.2	1.1	1.8	2.2	2.1	1.1	1.1	1.1	1.2	1.4	1.4
30%	1.1	1.1	1.1	1.5	1.7	1.5	1.0	1.0	1.0	1.2	1.3	1.3
40%	1.1	1.1	1.1	1.3	1.3	1.3	1.0	0.9	1.0	1.2	1.3	1.3
50%	1.1	1.0	1.0	1.1	1.1	1.3	0.9	0.9	1.0	1.2	1.3	1.3
60%	1.1	1.0	1.0	1.0	1.1	1.2	0.9	0.9	1.0	1.2	1.3	1.3
70%	1.1	0.9	0.9	1.0	1.0	1.0	0.9	0.9	1.0	1.1	1.2	1.3
80%	1.0	0.9	0.8	0.9	0.9	0.8	0.8	0.8	1.0	1.1	1.2	1.2
90%	1.0	0.8	0.8	0.8	0.9	0.8	0.7	0.7	0.9	1.1	1.1	1.2
Long Term												
Full Simulation Period[a]	1.1	1.1	1.2	1.3	1.6	1.5	1.1	1.0	1.0	1.2	1.3	1.4
Water Year Types[b]												
Wet (31%)	1.3	1.4	1.9	1.8	2.6	2.5	1.6	1.2	1.3	1.4	1.4	1.6
Above Normal (25%)	1.1	0.9	1.1	2.2	2.5	1.9	1.2	1.0	1.0	1.2	1.3	1.2
Below Normal (6%)	1.1	1.0	0.8	1.3	1.4	1.4	0.9	0.9	1.0	1.0	1.2	1.2
Dry (13%)	1.1	0.9	0.9	0.9	1.0	1.1	0.9	0.9	1.0	1.1	1.2	1.3
Critical (25%)	1.1	1.0	0.9	0.9	1.0	0.9	0.8	0.8	0.9	1.2	1.3	1.3

Alternative 9 (LLT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.0	1.9	2.0	2.0	2.0	1.9	2.0	2.0	2.1	2.1	2.0	2.1
20%	2.0	1.9	2.1	2.1	2.1	2.0	2.0	2.1	2.1	2.1	2.1	2.0
30%	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.1
40%	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.1	2.1	2.1	2.0	2.1
50%	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.1	2.0	2.1
60%	2.1	2.2	2.1	2.1	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1
70%	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.0	2.1
80%	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.1	2.0	2.0
90%	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0
Long Term												
Full Simulation Period[a]	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.1	2.0	2.1
Water Year Types[b]												
Wet (31%)	2.0	2.0	2.1	2.1	2.0	1.9	2.0	2.0	2.0	2.0	2.0	2.1
Above Normal (25%)	2.1	2.1	2.1	2.0	2.1	2.0	2.0	2.0	2.1	2.0	2.0	2.0
Below Normal (6%)	2.0	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0
Dry (13%)	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.0	2.1
Critical (25%)	2.1	2.1	2.1	2.1	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-32-2-14. Sacramento River at Rio Vista, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.6	0.7	1.1	1.4	2.6	1.7	1.1	0.5	0.4	0.7	0.7	0.9
20%	0.5	0.4	0.4	1.1	1.4	1.4	0.3	0.3	0.2	0.5	0.6	0.7
30%	0.4	0.3	0.3	0.8	1.0	0.8	0.3	0.2	0.2	0.5	0.6	0.6
40%	0.4	0.3	0.3	0.4	0.5	0.6	0.2	0.1	0.2	0.4	0.5	0.6
50%	0.3	0.2	0.2	0.3	0.4	0.5	0.2	0.1	0.2	0.4	0.5	0.6
60%	0.3	0.2	0.2	0.2	0.3	0.5	0.2	0.1	0.2	0.4	0.5	0.5
70%	0.3	0.1	0.1	0.2	0.3	0.3	0.1	0.1	0.1	0.4	0.5	0.5
80%	0.3	0.1	0.0	0.0	0.2	0.1	0.1	0.0	0.1	0.3	0.4	0.5
90%	0.3	0.0	-0.1	0.0	0.1	0.1	-0.1	-0.1	0.1	0.3	0.4	0.4
Long Term												
Full Simulation Period[a]	0.4	0.3	0.4	0.5	0.9	0.8	0.3	0.2	0.2	0.4	0.5	0.6
Water Year Types[b]												
Wet (31%)	0.5	0.7	1.1	1.0	2.0	1.9	0.9	0.4	0.5	0.6	0.7	0.9
Above Normal (25%)	0.4	0.2	0.3	1.4	1.8	1.2	0.5	0.3	0.2	0.4	0.6	0.6
Below Normal (6%)	0.5	0.3	0.0	0.5	0.7	0.6	0.2	0.1	0.2	0.3	0.5	0.5
Dry (13%)	0.3	0.1	0.1	0.1	0.2	0.4	0.1	0.1	0.2	0.4	0.5	0.5
Critical (25%)	0.3	0.2	0.1	0.1	0.2	0.2	0.0	0.0	0.1	0.4	0.5	0.5

Alternative 1A,1B,1C (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.4	1.5	1.9	2.1	3.1	2.4	1.8	1.2	1.2	1.5	1.5	1.5
20%	1.2	1.2	1.2	1.8	2.1	2.0	1.1	1.1	1.1	1.3	1.4	1.4
30%	1.2	1.1	1.1	1.5	1.7	1.6	1.0	1.0	1.0	1.3	1.4	1.4
40%	1.2	1.0	1.1	1.3	1.3	1.3	1.0	0.9	1.0	1.3	1.3	1.3
50%	1.1	1.0	1.1	1.1	1.1	1.3	1.0	0.9	1.0	1.2	1.3	1.3
60%	1.1	1.0	1.0	1.1	1.1	1.2	0.9	0.9	1.0	1.2	1.3	1.3
70%	1.1	0.9	1.0	1.0	1.1	1.0	0.9	0.9	1.0	1.2	1.2	1.3
80%	1.1	0.9	0.8	0.9	1.0	0.9	0.8	0.8	1.0	1.1	1.2	1.2
90%	1.1	0.9	0.8	0.9	0.9	0.9	0.7	0.8	0.9	1.1	1.2	1.2
Long Term												
Full Simulation Period[a]	1.2	1.1	1.2	1.3	1.6	1.5	1.1	1.0	1.1	1.3	1.3	1.4
Water Year Types[b]												
Wet (31%)	1.3	1.5	1.9	1.8	2.6	2.5	1.6	1.2	1.3	1.4	1.4	1.6
Above Normal (25%)	1.2	1.0	1.1	2.1	2.5	1.9	1.2	1.0	1.0	1.2	1.3	1.3
Below Normal (6%)	1.3	1.0	0.8	1.3	1.4	1.4	1.0	0.9	1.0	1.1	1.2	1.2
Dry (13%)	1.1	0.9	1.0	1.0	1.0	1.1	0.9	0.9	1.0	1.2	1.3	1.3
Critical (25%)	1.2	1.0	1.0	1.0	1.0	0.9	0.8	0.8	0.9	1.2	1.3	1.3

Alternative 1A,1B,1C (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.8	0.8	0.8	0.7	0.5	0.6	0.7	0.7	0.8	0.8	0.8	0.6
20%	0.8	0.8	0.8	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8
30%	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.7
40%	0.8	0.8	0.8	0.9	0.8	0.7	0.8	0.8	0.8	0.8	0.8	0.7
50%	0.8	0.8	0.9	0.8	0.8	0.7	0.8	0.8	0.8	0.8	0.8	0.7
60%	0.8	0.8	0.8	0.8	0.8	0.7	0.8	0.8	0.8	0.8	0.8	0.8
70%	0.8	0.8	0.9	0.9	0.8	0.8	0.8	0.8	0.9	0.8	0.8	0.7
80%	0.8	0.9	0.8	0.8	0.8	0.7	0.8	0.8	0.8	0.8	0.7	0.7
90%	0.8	0.8	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7
Long Term												
Full Simulation Period[a]	0.8	0.8	0.8	0.8	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.7
Water Year Types[b]												
Wet (31%)	0.8	0.8	0.8	0.8	0.6	0.6	0.7	0.8	0.8	0.8	0.8	0.7
Above Normal (25%)	0.8	0.8	0.8	0.7	0.6	0.7	0.7	0.7	0.8	0.8	0.7	0.7
Below Normal (6%)	0.8	0.8	0.8	0.8	0.7	0.7	0.8	0.8	0.8	0.8	0.7	0.7
Dry (13%)	0.8	0.8	0.8	0.9	0.8	0.8	0.8	0.8	0.9	0.8	0.8	0.8
Critical (25%)	0.8	0.8	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-32-2-15. Sacramento River at Rio Vista, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.6	0.7	1.1	1.4	2.6	1.7	1.1	0.5	0.4	0.7	0.7	0.9
20%	0.5	0.4	0.4	1.1	1.4	1.4	0.3	0.3	0.2	0.5	0.6	0.7
30%	0.4	0.3	0.3	0.8	1.0	0.8	0.3	0.2	0.2	0.5	0.6	0.6
40%	0.4	0.3	0.3	0.4	0.5	0.6	0.2	0.1	0.2	0.4	0.5	0.6
50%	0.3	0.2	0.2	0.3	0.4	0.5	0.2	0.1	0.2	0.4	0.5	0.6
60%	0.3	0.2	0.2	0.2	0.3	0.5	0.2	0.1	0.2	0.4	0.5	0.5
70%	0.3	0.1	0.1	0.2	0.3	0.3	0.1	0.1	0.1	0.4	0.5	0.5
80%	0.3	0.1	0.0	0.0	0.2	0.1	0.1	0.0	0.1	0.3	0.4	0.5
90%	0.3	0.0	-0.1	0.0	0.1	0.1	-0.1	-0.1	0.1	0.3	0.4	0.4
Long Term												
Full Simulation Period[a]	0.4	0.3	0.4	0.5	0.9	0.8	0.3	0.2	0.2	0.4	0.5	0.6
Water Year Types[b]												
Wet (31%)	0.5	0.7	1.1	1.0	2.0	1.9	0.9	0.4	0.5	0.6	0.7	0.9
Above Normal (25%)	0.4	0.2	0.3	1.4	1.8	1.2	0.5	0.3	0.2	0.4	0.6	0.6
Below Normal (6%)	0.5	0.3	0.0	0.5	0.7	0.6	0.2	0.1	0.2	0.3	0.5	0.5
Dry (13%)	0.3	0.1	0.1	0.1	0.2	0.4	0.1	0.1	0.2	0.4	0.5	0.5
Critical (25%)	0.3	0.2	0.1	0.1	0.2	0.2	0.0	0.0	0.1	0.4	0.5	0.5

Alternative 2A,2B,2C (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.4	1.5	1.9	2.1	3.1	2.3	1.8	1.2	1.2	1.5	1.5	1.7
20%	1.2	1.2	1.2	1.8	2.1	2.0	1.1	1.1	1.1	1.3	1.4	1.4
30%	1.2	1.1	1.1	1.5	1.7	1.5	1.0	1.0	1.1	1.3	1.4	1.4
40%	1.2	1.1	1.1	1.3	1.3	1.3	1.0	0.9	1.0	1.3	1.4	1.4
50%	1.1	1.0	1.1	1.1	1.2	1.3	1.0	0.9	1.0	1.2	1.3	1.3
60%	1.1	1.0	1.0	1.1	1.1	1.2	1.0	0.9	1.0	1.2	1.3	1.3
70%	1.1	0.9	1.0	1.1	1.1	1.0	0.9	0.9	1.0	1.2	1.3	1.3
80%	1.1	0.9	0.8	0.9	1.0	0.9	0.8	0.8	1.0	1.2	1.2	1.3
90%	1.1	0.9	0.8	0.9	0.9	0.9	0.7	0.8	0.9	1.1	1.2	1.2
Long Term												
Full Simulation Period[a]	1.2	1.1	1.2	1.3	1.6	1.5	1.1	1.0	1.1	1.3	1.3	1.4
Water Year Types[b]												
Wet (31%)	1.3	1.4	1.9	1.8	2.6	2.5	1.6	1.2	1.3	1.4	1.4	1.7
Above Normal (25%)	1.2	1.0	1.1	2.1	2.4	1.9	1.2	1.1	1.0	1.2	1.3	1.3
Below Normal (6%)	1.2	1.1	0.8	1.3	1.4	1.3	1.0	0.9	1.0	1.1	1.2	1.2
Dry (13%)	1.1	1.0	1.0	1.0	1.0	1.1	0.9	1.0	1.0	1.2	1.3	1.3
Critical (25%)	1.1	1.0	1.0	1.0	1.0	0.9	0.8	0.8	0.9	1.2	1.3	1.3

Alternative 2A,2B,2C (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.8	0.8	0.8	0.7	0.5	0.6	0.7	0.7	0.8	0.8	0.8	0.7
20%	0.8	0.8	0.8	0.7	0.7	0.6	0.8	0.8	0.8	0.8	0.8	0.8
30%	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8
40%	0.8	0.8	0.8	0.8	0.8	0.7	0.8	0.8	0.8	0.8	0.8	0.8
50%	0.8	0.8	0.9	0.8	0.8	0.7	0.8	0.8	0.8	0.8	0.8	0.8
60%	0.8	0.8	0.9	0.9	0.8	0.7	0.8	0.8	0.8	0.8	0.8	0.8
70%	0.8	0.8	0.9	0.9	0.8	0.8	0.8	0.8	0.9	0.8	0.8	0.8
80%	0.8	0.8	0.8	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
90%	0.8	0.8	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Long Term												
Full Simulation Period[a]	0.8	0.8	0.8	0.8	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8
Water Year Types[b]												
Wet (31%)	0.8	0.8	0.7	0.8	0.6	0.6	0.7	0.8	0.8	0.8	0.8	0.8
Above Normal (25%)	0.8	0.8	0.8	0.7	0.6	0.7	0.7	0.8	0.8	0.8	0.8	0.8
Below Normal (6%)	0.7	0.8	0.8	0.8	0.7	0.7	0.8	0.8	0.8	0.8	0.7	0.8
Dry (13%)	0.8	0.8	0.9	0.9	0.8	0.7	0.8	0.8	0.9	0.8	0.8	0.8
Critical (25%)	0.8	0.8	0.9	0.9	0.8	0.8	0.8	0.8	0.9	0.8	0.8	0.8

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-32-2-16. Sacramento River at Rio Vista, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.6	0.7	1.1	1.4	2.6	1.7	1.1	0.5	0.4	0.7	0.7	0.9
20%	0.5	0.4	0.4	1.1	1.4	1.4	0.3	0.3	0.2	0.5	0.6	0.7
30%	0.4	0.3	0.3	0.8	1.0	0.8	0.3	0.2	0.2	0.5	0.6	0.6
40%	0.4	0.3	0.3	0.4	0.5	0.6	0.2	0.1	0.2	0.4	0.5	0.6
50%	0.3	0.2	0.2	0.3	0.4	0.5	0.2	0.1	0.2	0.4	0.5	0.6
60%	0.3	0.2	0.2	0.2	0.3	0.5	0.2	0.1	0.2	0.4	0.5	0.5
70%	0.3	0.1	0.1	0.2	0.3	0.3	0.1	0.1	0.1	0.4	0.5	0.5
80%	0.3	0.1	0.0	0.0	0.2	0.1	0.1	0.0	0.1	0.3	0.4	0.5
90%	0.3	0.0	-0.1	0.0	0.1	0.1	-0.1	-0.1	0.1	0.3	0.4	0.4
Long Term												
Full Simulation Period[a]	0.4	0.3	0.4	0.5	0.9	0.8	0.3	0.2	0.2	0.4	0.5	0.6
Water Year Types[b]												
Wet (31%)	0.5	0.7	1.1	1.0	2.0	1.9	0.9	0.4	0.5	0.6	0.7	0.9
Above Normal (25%)	0.4	0.2	0.3	1.4	1.8	1.2	0.5	0.3	0.2	0.4	0.6	0.6
Below Normal (6%)	0.5	0.3	0.0	0.5	0.7	0.6	0.2	0.1	0.2	0.3	0.5	0.5
Dry (13%)	0.3	0.1	0.1	0.1	0.2	0.4	0.1	0.1	0.2	0.4	0.5	0.5
Critical (25%)	0.3	0.2	0.1	0.1	0.2	0.2	0.0	0.0	0.1	0.4	0.5	0.5

Alternative 3 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.3	1.5	1.9	2.1	3.1	2.4	1.8	1.2	1.2	1.5	1.5	1.6
20%	1.3	1.2	1.2	1.8	2.1	2.0	1.1	1.1	1.1	1.3	1.4	1.4
30%	1.2	1.1	1.1	1.5	1.7	1.6	1.0	1.0	1.0	1.3	1.4	1.4
40%	1.2	1.0	1.1	1.3	1.3	1.3	1.0	0.9	1.0	1.3	1.3	1.3
50%	1.1	1.0	1.1	1.1	1.1	1.3	1.0	0.9	1.0	1.2	1.3	1.3
60%	1.1	1.0	1.0	1.1	1.1	1.2	0.9	0.9	1.0	1.2	1.3	1.3
70%	1.1	0.9	1.0	1.0	1.1	1.0	0.9	0.9	1.0	1.2	1.3	1.3
80%	1.1	0.9	0.8	0.9	1.0	0.9	0.8	0.8	1.0	1.2	1.2	1.2
90%	1.1	0.9	0.8	0.9	0.9	0.9	0.7	0.8	0.9	1.1	1.2	1.2
Long Term												
Full Simulation Period[a]	1.2	1.1	1.2	1.3	1.6	1.5	1.1	1.0	1.1	1.3	1.3	1.4
Water Year Types[b]												
Wet (31%)	1.3	1.5	1.9	1.8	2.6	2.5	1.6	1.2	1.3	1.4	1.4	1.6
Above Normal (25%)	1.2	1.0	1.1	2.1	2.4	1.9	1.2	1.0	1.0	1.2	1.3	1.3
Below Normal (6%)	1.3	1.0	0.8	1.3	1.4	1.4	1.0	0.9	1.0	1.1	1.2	1.2
Dry (13%)	1.1	0.9	1.0	1.0	1.0	1.1	0.9	1.0	1.0	1.2	1.3	1.3
Critical (25%)	1.2	1.0	1.0	1.0	1.0	0.9	0.8	0.8	0.9	1.2	1.3	1.3

Alternative 3 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.8	0.8	0.8	0.7	0.5	0.6	0.7	0.7	0.8	0.8	0.8	0.6
20%	0.8	0.8	0.8	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8
30%	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.7
40%	0.8	0.8	0.8	0.8	0.8	0.7	0.8	0.8	0.8	0.8	0.8	0.7
50%	0.8	0.8	0.9	0.8	0.8	0.7	0.8	0.8	0.8	0.8	0.8	0.8
60%	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
70%	0.8	0.8	0.9	0.8	0.8	0.8	0.8	0.8	0.9	0.8	0.8	0.8
80%	0.8	0.9	0.8	0.8	0.8	0.7	0.8	0.8	0.8	0.8	0.8	0.8
90%	0.8	0.8	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Long Term												
Full Simulation Period[a]	0.8	0.8	0.8	0.8	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.7
Water Year Types[b]												
Wet (31%)	0.8	0.8	0.8	0.8	0.6	0.6	0.7	0.8	0.8	0.8	0.8	0.7
Above Normal (25%)	0.8	0.8	0.8	0.7	0.6	0.7	0.7	0.7	0.8	0.8	0.8	0.7
Below Normal (6%)	0.8	0.8	0.8	0.8	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8
Dry (13%)	0.8	0.8	0.8	0.9	0.8	0.8	0.8	0.8	0.9	0.8	0.8	0.8
Critical (25%)	0.8	0.8	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-32-2-17. Sacramento River at Rio Vista, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.6	0.7	1.1	1.4	2.6	1.7	1.1	0.5	0.4	0.7	0.7	0.9
20%	0.5	0.4	0.4	1.1	1.4	1.4	0.3	0.3	0.2	0.5	0.6	0.7
30%	0.4	0.3	0.3	0.8	1.0	0.8	0.3	0.2	0.2	0.5	0.6	0.6
40%	0.4	0.3	0.3	0.4	0.5	0.6	0.2	0.1	0.2	0.4	0.5	0.6
50%	0.3	0.2	0.2	0.3	0.4	0.5	0.2	0.1	0.2	0.4	0.5	0.6
60%	0.3	0.2	0.2	0.2	0.3	0.5	0.2	0.1	0.2	0.4	0.5	0.5
70%	0.3	0.1	0.1	0.2	0.3	0.3	0.1	0.1	0.1	0.4	0.5	0.5
80%	0.3	0.1	0.0	0.0	0.2	0.1	0.1	0.0	0.1	0.3	0.4	0.5
90%	0.3	0.0	-0.1	0.0	0.1	0.1	-0.1	-0.1	0.1	0.3	0.4	0.4
Long Term												
Full Simulation Period[a]	0.4	0.3	0.4	0.5	0.9	0.8	0.3	0.2	0.2	0.4	0.5	0.6
Water Year Types[b]												
Wet (31%)	0.5	0.7	1.1	1.0	2.0	1.9	0.9	0.4	0.5	0.6	0.7	0.9
Above Normal (25%)	0.4	0.2	0.3	1.4	1.8	1.2	0.5	0.3	0.2	0.4	0.6	0.6
Below Normal (6%)	0.5	0.3	0.0	0.5	0.7	0.6	0.2	0.1	0.2	0.3	0.5	0.5
Dry (13%)	0.3	0.1	0.1	0.1	0.2	0.4	0.1	0.1	0.2	0.4	0.5	0.5
Critical (25%)	0.3	0.2	0.1	0.1	0.2	0.2	0.0	0.0	0.1	0.4	0.5	0.5

Alternative 4 H1 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.4	1.5	1.9	2.1	3.1	2.3	1.8	1.2	1.2	1.5	1.5	1.6
20%	1.3	1.2	1.2	1.7	2.1	2.0	1.1	1.1	1.1	1.3	1.4	1.4
30%	1.2	1.1	1.1	1.5	1.7	1.5	1.0	1.0	1.1	1.3	1.4	1.4
40%	1.2	1.0	1.1	1.3	1.3	1.3	1.0	0.9	1.0	1.3	1.4	1.3
50%	1.1	1.0	1.1	1.1	1.2	1.3	1.0	0.9	1.0	1.2	1.3	1.3
60%	1.1	1.0	1.1	1.1	1.1	1.2	0.9	0.9	1.0	1.2	1.3	1.3
70%	1.1	0.9	1.0	1.0	1.1	1.0	0.9	0.9	1.0	1.2	1.3	1.3
80%	1.1	0.9	0.8	1.0	1.0	0.9	0.8	0.8	1.0	1.2	1.2	1.2
90%	1.1	0.9	0.8	0.9	0.9	0.8	0.7	0.8	0.9	1.1	1.2	1.2
Long Term												
Full Simulation Period[a]	1.2	1.1	1.2	1.4	1.6	1.5	1.1	1.0	1.1	1.3	1.3	1.4
Water Year Types[b]												
Wet (31%)	1.3	1.5	1.9	1.8	2.6	2.5	1.6	1.2	1.3	1.4	1.4	1.6
Above Normal (25%)	1.1	1.0	1.1	2.1	2.4	1.9	1.2	1.1	1.0	1.2	1.3	1.3
Below Normal (6%)	1.3	1.0	0.8	1.3	1.4	1.4	1.0	0.9	1.0	1.1	1.2	1.2
Dry (13%)	1.1	0.9	1.0	1.0	1.0	1.1	0.9	1.0	1.0	1.2	1.3	1.3
Critical (25%)	1.1	1.0	1.0	1.0	1.0	0.9	0.8	0.8	0.9	1.2	1.3	1.3

Alternative 4 H1 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.8	0.8	0.8	0.7	0.5	0.6	0.7	0.7	0.8	0.8	0.8	0.6
20%	0.8	0.8	0.8	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8
30%	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8
40%	0.8	0.8	0.8	0.8	0.8	0.7	0.8	0.8	0.8	0.8	0.8	0.7
50%	0.8	0.8	0.9	0.8	0.8	0.7	0.8	0.8	0.8	0.8	0.8	0.8
60%	0.8	0.8	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
70%	0.8	0.8	0.9	0.8	0.8	0.8	0.8	0.8	0.9	0.8	0.8	0.8
80%	0.8	0.8	0.8	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
90%	0.8	0.8	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Long Term												
Full Simulation Period[a]	0.8	0.8	0.8	0.8	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.7
Water Year Types[b]												
Wet (31%)	0.8	0.8	0.8	0.8	0.6	0.6	0.7	0.8	0.8	0.8	0.8	0.7
Above Normal (25%)	0.8	0.8	0.8	0.7	0.6	0.7	0.7	0.8	0.8	0.8	0.8	0.7
Below Normal (6%)	0.8	0.8	0.8	0.8	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8
Dry (13%)	0.8	0.8	0.9	0.9	0.8	0.8	0.8	0.8	0.9	0.8	0.8	0.8
Critical (25%)	0.8	0.8	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-32-2-18. Sacramento River at Rio Vista, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.6	0.7	1.1	1.4	2.6	1.7	1.1	0.5	0.4	0.7	0.7	0.9
20%	0.5	0.4	0.4	1.1	1.4	1.4	0.3	0.3	0.2	0.5	0.6	0.7
30%	0.4	0.3	0.3	0.8	1.0	0.8	0.3	0.2	0.2	0.5	0.6	0.6
40%	0.4	0.3	0.3	0.4	0.5	0.6	0.2	0.1	0.2	0.4	0.5	0.6
50%	0.3	0.2	0.2	0.3	0.4	0.5	0.2	0.1	0.2	0.4	0.5	0.6
60%	0.3	0.2	0.2	0.2	0.3	0.5	0.2	0.1	0.2	0.4	0.5	0.5
70%	0.3	0.1	0.1	0.2	0.3	0.3	0.1	0.1	0.1	0.4	0.5	0.5
80%	0.3	0.1	0.0	0.0	0.2	0.1	0.1	0.0	0.1	0.3	0.4	0.5
90%	0.3	0.0	-0.1	0.0	0.1	0.1	-0.1	-0.1	0.1	0.3	0.4	0.4
Long Term												
Full Simulation Period[a]	0.4	0.3	0.4	0.5	0.9	0.8	0.3	0.2	0.2	0.4	0.5	0.6
Water Year Types[b]												
Wet (31%)	0.5	0.7	1.1	1.0	2.0	1.9	0.9	0.4	0.5	0.6	0.7	0.9
Above Normal (25%)	0.4	0.2	0.3	1.4	1.8	1.2	0.5	0.3	0.2	0.4	0.6	0.6
Below Normal (6%)	0.5	0.3	0.0	0.5	0.7	0.6	0.2	0.1	0.2	0.3	0.5	0.5
Dry (13%)	0.3	0.1	0.1	0.1	0.2	0.4	0.1	0.1	0.2	0.4	0.5	0.5
Critical (25%)	0.3	0.2	0.1	0.1	0.2	0.2	0.0	0.0	0.1	0.4	0.5	0.5

Alternative 4 H2 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.4	1.5	1.9	2.1	3.1	2.4	1.8	1.2	1.2	1.5	1.5	1.6
20%	1.2	1.2	1.2	1.7	2.1	2.0	1.2	1.1	1.1	1.3	1.4	1.4
30%	1.2	1.1	1.2	1.5	1.7	1.5	1.1	1.0	1.1	1.3	1.4	1.4
40%	1.2	1.0	1.1	1.3	1.3	1.3	1.0	0.9	1.0	1.2	1.4	1.3
50%	1.1	1.0	1.1	1.1	1.2	1.3	1.0	0.9	1.0	1.2	1.3	1.3
60%	1.1	1.0	1.0	1.1	1.1	1.2	1.0	0.9	1.0	1.2	1.3	1.3
70%	1.1	0.9	1.0	1.0	1.1	1.0	0.9	0.9	1.0	1.2	1.3	1.3
80%	1.1	0.9	0.8	0.9	1.0	0.9	0.9	0.8	1.0	1.1	1.2	1.2
90%	1.0	0.9	0.8	0.9	0.9	0.9	0.7	0.8	0.9	1.1	1.2	1.2
Long Term												
Full Simulation Period[a]	1.2	1.1	1.2	1.4	1.6	1.5	1.1	1.0	1.1	1.3	1.3	1.4
Water Year Types[b]												
Wet (31%)	1.3	1.5	1.9	1.8	2.6	2.5	1.6	1.2	1.3	1.4	1.4	1.6
Above Normal (25%)	1.2	1.0	1.1	2.1	2.5	1.9	1.3	1.1	1.0	1.2	1.3	1.3
Below Normal (6%)	1.2	1.0	0.8	1.3	1.4	1.4	1.0	0.9	1.0	1.1	1.2	1.2
Dry (13%)	1.1	0.9	1.0	1.0	1.0	1.1	0.9	1.0	1.0	1.2	1.3	1.3
Critical (25%)	1.1	1.0	1.0	1.0	1.0	0.9	0.8	0.8	0.9	1.2	1.3	1.3

Alternative 4 H2 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.8	0.8	0.8	0.7	0.5	0.6	0.7	0.7	0.8	0.8	0.8	0.6
20%	0.8	0.8	0.8	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8
30%	0.8	0.8	0.8	0.8	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8
40%	0.8	0.8	0.8	0.8	0.8	0.7	0.8	0.8	0.8	0.8	0.8	0.7
50%	0.8	0.8	0.9	0.8	0.8	0.7	0.8	0.8	0.8	0.8	0.8	0.8
60%	0.8	0.8	0.8	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
70%	0.8	0.8	0.9	0.8	0.8	0.8	0.8	0.8	0.9	0.8	0.8	0.8
80%	0.8	0.8	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
90%	0.8	0.8	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Long Term												
Full Simulation Period[a]	0.8	0.8	0.8	0.8	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.7
Water Year Types[b]												
Wet (31%)	0.8	0.8	0.8	0.8	0.6	0.6	0.7	0.8	0.8	0.8	0.8	0.7
Above Normal (25%)	0.8	0.8	0.8	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.7
Below Normal (6%)	0.7	0.8	0.9	0.8	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8
Dry (13%)	0.8	0.8	0.9	0.9	0.8	0.8	0.8	0.8	0.9	0.8	0.8	0.8
Critical (25%)	0.8	0.8	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-32-2-19. Sacramento River at Rio Vista, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.6	0.7	1.1	1.4	2.6	1.7	1.1	0.5	0.4	0.7	0.7	0.9
20%	0.5	0.4	0.4	1.1	1.4	1.4	0.3	0.3	0.2	0.5	0.6	0.7
30%	0.4	0.3	0.3	0.8	1.0	0.8	0.3	0.2	0.2	0.5	0.6	0.6
40%	0.4	0.3	0.3	0.4	0.5	0.6	0.2	0.1	0.2	0.4	0.5	0.6
50%	0.3	0.2	0.2	0.3	0.4	0.5	0.2	0.1	0.2	0.4	0.5	0.6
60%	0.3	0.2	0.2	0.2	0.3	0.5	0.2	0.1	0.2	0.4	0.5	0.5
70%	0.3	0.1	0.1	0.2	0.3	0.3	0.1	0.1	0.1	0.4	0.5	0.5
80%	0.3	0.1	0.0	0.0	0.2	0.1	0.1	0.0	0.1	0.3	0.4	0.5
90%	0.3	0.0	-0.1	0.0	0.1	0.1	-0.1	-0.1	0.1	0.3	0.4	0.4
Long Term												
Full Simulation Period[a]	0.4	0.3	0.4	0.5	0.9	0.8	0.3	0.2	0.2	0.4	0.5	0.6
Water Year Types[b]												
Wet (31%)	0.5	0.7	1.1	1.0	2.0	1.9	0.9	0.4	0.5	0.6	0.7	0.9
Above Normal (25%)	0.4	0.2	0.3	1.4	1.8	1.2	0.5	0.3	0.2	0.4	0.6	0.6
Below Normal (6%)	0.5	0.3	0.0	0.5	0.7	0.6	0.2	0.1	0.2	0.3	0.5	0.5
Dry (13%)	0.3	0.1	0.1	0.1	0.2	0.4	0.1	0.1	0.2	0.4	0.5	0.5
Critical (25%)	0.3	0.2	0.1	0.1	0.2	0.2	0.0	0.0	0.1	0.4	0.5	0.5

Alternative 4 H3 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.3	1.5	1.9	2.1	3.1	2.3	1.8	1.2	1.2	1.5	1.5	1.7
20%	1.2	1.2	1.2	1.7	2.1	2.0	1.1	1.1	1.1	1.3	1.4	1.4
30%	1.2	1.1	1.1	1.5	1.7	1.5	1.0	1.0	1.1	1.3	1.4	1.4
40%	1.2	1.1	1.1	1.3	1.3	1.3	1.0	0.9	1.0	1.3	1.4	1.4
50%	1.1	1.0	1.1	1.1	1.2	1.2	1.0	0.9	1.0	1.2	1.3	1.3
60%	1.1	1.0	1.1	1.1	1.1	1.2	0.9	0.9	1.0	1.2	1.3	1.3
70%	1.1	0.9	1.0	1.0	1.1	1.0	0.9	0.9	1.0	1.2	1.3	1.3
80%	1.1	0.9	0.8	0.9	1.0	0.9	0.8	0.8	1.0	1.2	1.2	1.3
90%	1.1	0.9	0.8	0.9	0.9	0.8	0.7	0.8	0.9	1.1	1.2	1.2
Long Term												
Full Simulation Period[a]	1.2	1.1	1.2	1.3	1.6	1.5	1.1	1.0	1.1	1.3	1.3	1.4
Water Year Types[b]												
Wet (31%)	1.3	1.4	1.9	1.8	2.6	2.5	1.6	1.2	1.3	1.4	1.4	1.7
Above Normal (25%)	1.2	1.0	1.1	2.1	2.4	1.9	1.2	1.1	1.0	1.2	1.3	1.3
Below Normal (6%)	1.2	1.1	0.8	1.3	1.4	1.3	1.0	0.9	1.0	1.1	1.2	1.2
Dry (13%)	1.1	1.0	1.0	1.0	1.0	1.1	0.9	1.0	1.0	1.2	1.3	1.3
Critical (25%)	1.1	1.0	1.0	1.0	1.0	0.9	0.8	0.8	0.9	1.2	1.3	1.3

Alternative 4 H3 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.8	0.8	0.8	0.7	0.5	0.6	0.7	0.7	0.8	0.8	0.8	0.7
20%	0.8	0.8	0.8	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8
30%	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8
40%	0.8	0.8	0.8	0.8	0.8	0.7	0.8	0.8	0.8	0.8	0.8	0.8
50%	0.8	0.8	0.9	0.8	0.8	0.7	0.8	0.8	0.8	0.8	0.8	0.8
60%	0.8	0.8	0.9	0.9	0.8	0.7	0.8	0.8	0.8	0.8	0.8	0.8
70%	0.8	0.8	0.9	0.8	0.8	0.8	0.8	0.8	0.9	0.8	0.8	0.8
80%	0.8	0.8	0.8	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
90%	0.8	0.8	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Long Term												
Full Simulation Period[a]	0.8	0.8	0.8	0.8	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8
Water Year Types[b]												
Wet (31%)	0.8	0.8	0.8	0.7	0.6	0.6	0.7	0.8	0.8	0.8	0.8	0.8
Above Normal (25%)	0.8	0.8	0.8	0.7	0.6	0.7	0.7	0.8	0.8	0.8	0.8	0.8
Below Normal (6%)	0.8	0.8	0.8	0.8	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8
Dry (13%)	0.8	0.8	0.9	0.9	0.8	0.7	0.8	0.8	0.9	0.8	0.8	0.8
Critical (25%)	0.8	0.8	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-32-2-20. Sacramento River at Rio Vista, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.6	0.7	1.1	1.4	2.6	1.7	1.1	0.5	0.4	0.7	0.7	0.9
20%	0.5	0.4	0.4	1.1	1.4	1.4	0.3	0.3	0.2	0.5	0.6	0.7
30%	0.4	0.3	0.3	0.8	1.0	0.8	0.3	0.2	0.2	0.5	0.6	0.6
40%	0.4	0.3	0.3	0.4	0.5	0.6	0.2	0.1	0.2	0.4	0.5	0.6
50%	0.3	0.2	0.2	0.3	0.4	0.5	0.2	0.1	0.2	0.4	0.5	0.6
60%	0.3	0.2	0.2	0.2	0.3	0.5	0.2	0.1	0.2	0.4	0.5	0.5
70%	0.3	0.1	0.1	0.2	0.3	0.3	0.1	0.1	0.1	0.4	0.5	0.5
80%	0.3	0.1	0.0	0.0	0.2	0.1	0.1	0.0	0.1	0.3	0.4	0.5
90%	0.3	0.0	-0.1	0.0	0.1	0.1	-0.1	-0.1	0.1	0.3	0.4	0.4
Long Term												
Full Simulation Period[a]	0.4	0.3	0.4	0.5	0.9	0.8	0.3	0.2	0.2	0.4	0.5	0.6
Water Year Types[b]												
Wet (31%)	0.5	0.7	1.1	1.0	2.0	1.9	0.9	0.4	0.5	0.6	0.7	0.9
Above Normal (25%)	0.4	0.2	0.3	1.4	1.8	1.2	0.5	0.3	0.2	0.4	0.6	0.6
Below Normal (6%)	0.5	0.3	0.0	0.5	0.7	0.6	0.2	0.1	0.2	0.3	0.5	0.5
Dry (13%)	0.3	0.1	0.1	0.1	0.2	0.4	0.1	0.1	0.2	0.4	0.5	0.5
Critical (25%)	0.3	0.2	0.1	0.1	0.2	0.2	0.0	0.0	0.1	0.4	0.5	0.5

Alternative 4 H4 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.3	1.5	1.9	2.1	3.1	2.4	1.8	1.2	1.2	1.5	1.5	1.7
20%	1.2	1.2	1.2	1.7	2.1	2.0	1.2	1.1	1.1	1.3	1.4	1.4
30%	1.2	1.1	1.1	1.5	1.7	1.5	1.1	1.0	1.1	1.3	1.4	1.4
40%	1.2	1.1	1.1	1.3	1.3	1.3	1.0	0.9	1.0	1.2	1.4	1.4
50%	1.1	1.0	1.1	1.1	1.2	1.3	1.0	0.9	1.0	1.2	1.3	1.3
60%	1.1	1.0	1.0	1.1	1.1	1.2	1.0	0.9	1.0	1.2	1.3	1.3
70%	1.1	0.9	1.0	1.0	1.1	1.0	0.9	0.9	1.0	1.2	1.3	1.3
80%	1.1	0.9	0.8	0.9	1.0	0.9	0.9	0.8	1.0	1.1	1.2	1.3
90%	1.1	0.9	0.8	0.9	0.9	0.9	0.7	0.8	0.9	1.1	1.2	1.2
Long Term												
Full Simulation Period[a]	1.2	1.1	1.2	1.3	1.6	1.5	1.1	1.0	1.1	1.3	1.3	1.4
Water Year Types[b]												
Wet (31%)	1.3	1.4	1.9	1.8	2.6	2.5	1.6	1.2	1.3	1.4	1.4	1.7
Above Normal (25%)	1.2	1.0	1.1	2.1	2.4	1.9	1.3	1.1	1.0	1.2	1.3	1.3
Below Normal (6%)	1.2	1.1	0.8	1.3	1.4	1.3	1.0	0.9	1.0	1.1	1.2	1.2
Dry (13%)	1.1	1.0	1.0	1.0	1.0	1.1	0.9	1.0	1.0	1.2	1.3	1.3
Critical (25%)	1.1	1.0	1.0	1.0	1.0	0.9	0.8	0.8	0.9	1.2	1.3	1.3

Alternative 4 H4 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.8	0.8	0.8	0.7	0.5	0.6	0.7	0.7	0.8	0.8	0.8	0.8
20%	0.8	0.8	0.8	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8
30%	0.8	0.8	0.8	0.8	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8
40%	0.8	0.8	0.8	0.8	0.8	0.7	0.8	0.8	0.8	0.8	0.8	0.8
50%	0.8	0.8	0.9	0.8	0.8	0.7	0.8	0.8	0.8	0.8	0.8	0.8
60%	0.8	0.8	0.8	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
70%	0.8	0.8	0.9	0.8	0.8	0.8	0.8	0.8	0.9	0.8	0.8	0.8
80%	0.8	0.8	0.8	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
90%	0.8	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Long Term												
Full Simulation Period[a]	0.8	0.8	0.8	0.8	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8
Water Year Types[b]												
Wet (31%)	0.8	0.8	0.8	0.8	0.6	0.6	0.7	0.8	0.8	0.8	0.8	0.8
Above Normal (25%)	0.8	0.8	0.8	0.7	0.6	0.7	0.8	0.8	0.8	0.8	0.8	0.8
Below Normal (6%)	0.7	0.8	0.8	0.8	0.7	0.7	0.8	0.8	0.8	0.8	0.7	0.8
Dry (13%)	0.8	0.8	0.9	0.9	0.8	0.8	0.8	0.8	0.9	0.8	0.8	0.8
Critical (25%)	0.8	0.8	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-32-2-21. Sacramento River at Rio Vista, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.6	0.7	1.1	1.4	2.6	1.7	1.1	0.5	0.4	0.7	0.7	0.9
20%	0.5	0.4	0.4	1.1	1.4	1.4	0.3	0.3	0.2	0.5	0.6	0.7
30%	0.4	0.3	0.3	0.8	1.0	0.8	0.3	0.2	0.2	0.5	0.6	0.6
40%	0.4	0.3	0.3	0.4	0.5	0.6	0.2	0.1	0.2	0.4	0.5	0.6
50%	0.3	0.2	0.2	0.3	0.4	0.5	0.2	0.1	0.2	0.4	0.5	0.6
60%	0.3	0.2	0.2	0.2	0.3	0.5	0.2	0.1	0.2	0.4	0.5	0.5
70%	0.3	0.1	0.1	0.2	0.3	0.3	0.1	0.1	0.1	0.4	0.5	0.5
80%	0.3	0.1	0.0	0.0	0.2	0.1	0.1	0.0	0.1	0.3	0.4	0.5
90%	0.3	0.0	-0.1	0.0	0.1	0.1	-0.1	-0.1	0.1	0.3	0.4	0.4
Long Term												
Full Simulation Period[a]	0.4	0.3	0.4	0.5	0.9	0.8	0.3	0.2	0.2	0.4	0.5	0.6
Water Year Types[b]												
Wet (31%)	0.5	0.7	1.1	1.0	2.0	1.9	0.9	0.4	0.5	0.6	0.7	0.9
Above Normal (25%)	0.4	0.2	0.3	1.4	1.8	1.2	0.5	0.3	0.2	0.4	0.6	0.6
Below Normal (6%)	0.5	0.3	0.0	0.5	0.7	0.6	0.2	0.1	0.2	0.3	0.5	0.5
Dry (13%)	0.3	0.1	0.1	0.1	0.2	0.4	0.1	0.1	0.2	0.4	0.5	0.5
Critical (25%)	0.3	0.2	0.1	0.1	0.2	0.2	0.0	0.0	0.1	0.4	0.5	0.5

Alternative 5 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.4	1.5	1.9	2.1	3.1	2.3	1.8	1.2	1.2	1.5	1.5	1.7
20%	1.2	1.2	1.2	1.8	2.1	2.1	1.1	1.1	1.1	1.3	1.4	1.4
30%	1.2	1.1	1.1	1.5	1.7	1.5	1.0	1.0	1.1	1.3	1.4	1.4
40%	1.2	1.1	1.1	1.3	1.3	1.3	1.0	0.9	1.0	1.3	1.4	1.4
50%	1.1	1.0	1.1	1.1	1.1	1.3	1.0	0.9	1.0	1.2	1.3	1.3
60%	1.1	1.0	1.0	1.1	1.1	1.2	1.0	0.9	1.0	1.2	1.3	1.3
70%	1.1	0.9	1.0	1.0	1.1	1.0	0.9	0.9	1.0	1.2	1.3	1.3
80%	1.1	0.9	0.8	0.9	1.0	0.9	0.8	0.8	1.0	1.2	1.2	1.3
90%	1.1	0.9	0.8	0.9	0.9	0.8	0.7	0.8	0.9	1.1	1.2	1.2
Long Term												
Full Simulation Period[a]	1.2	1.1	1.2	1.3	1.6	1.5	1.1	1.0	1.1	1.3	1.3	1.4
Water Year Types[b]												
Wet (31%)	1.3	1.5	1.9	1.8	2.6	2.5	1.6	1.2	1.3	1.4	1.4	1.7
Above Normal (25%)	1.1	1.0	1.1	2.1	2.4	1.9	1.2	1.1	1.0	1.2	1.3	1.3
Below Normal (6%)	1.2	1.1	0.8	1.3	1.4	1.4	1.0	0.9	1.0	1.1	1.2	1.2
Dry (13%)	1.1	1.0	1.0	1.0	1.0	1.1	0.9	1.0	1.0	1.2	1.3	1.3
Critical (25%)	1.1	1.0	1.0	1.0	1.0	0.9	0.8	0.8	0.9	1.2	1.3	1.3

Alternative 5 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.8	0.8	0.8	0.7	0.5	0.6	0.7	0.8	0.8	0.8	0.8	0.8
20%	0.8	0.8	0.8	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8
30%	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.8	0.9	0.8	0.8	0.8
40%	0.8	0.8	0.8	0.8	0.8	0.7	0.8	0.8	0.9	0.8	0.8	0.8
50%	0.8	0.8	0.9	0.8	0.8	0.7	0.8	0.8	0.8	0.8	0.8	0.8
60%	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
70%	0.8	0.8	0.9	0.9	0.8	0.8	0.8	0.8	0.9	0.8	0.8	0.8
80%	0.8	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
90%	0.8	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Long Term												
Full Simulation Period[a]	0.8	0.8	0.8	0.8	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8
Water Year Types[b]												
Wet (31%)	0.8	0.8	0.8	0.8	0.6	0.6	0.7	0.8	0.8	0.8	0.8	0.8
Above Normal (25%)	0.8	0.8	0.8	0.7	0.6	0.7	0.7	0.8	0.8	0.8	0.8	0.8
Below Normal (6%)	0.7	0.8	0.8	0.8	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8
Dry (13%)	0.8	0.8	0.8	0.9	0.8	0.8	0.8	0.8	0.9	0.8	0.8	0.8
Critical (25%)	0.8	0.8	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-32-2-22. Sacramento River at Rio Vista, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.6	0.7	1.1	1.4	2.6	1.7	1.1	0.5	0.4	0.7	0.7	0.9
20%	0.5	0.4	0.4	1.1	1.4	1.4	0.3	0.3	0.2	0.5	0.6	0.7
30%	0.4	0.3	0.3	0.8	1.0	0.8	0.3	0.2	0.2	0.5	0.6	0.6
40%	0.4	0.3	0.3	0.4	0.5	0.6	0.2	0.1	0.2	0.4	0.5	0.6
50%	0.3	0.2	0.2	0.3	0.4	0.5	0.2	0.1	0.2	0.4	0.5	0.6
60%	0.3	0.2	0.2	0.2	0.3	0.5	0.2	0.1	0.2	0.4	0.5	0.5
70%	0.3	0.1	0.1	0.2	0.3	0.3	0.1	0.1	0.1	0.4	0.5	0.5
80%	0.3	0.1	0.0	0.0	0.2	0.1	0.1	0.0	0.1	0.3	0.4	0.5
90%	0.3	0.0	-0.1	0.0	0.1	0.1	-0.1	-0.1	0.1	0.3	0.4	0.4
Long Term												
Full Simulation Period[a]	0.4	0.3	0.4	0.5	0.9	0.8	0.3	0.2	0.2	0.4	0.5	0.6
Water Year Types[b]												
Wet (31%)	0.5	0.7	1.1	1.0	2.0	1.9	0.9	0.4	0.5	0.6	0.7	0.9
Above Normal (25%)	0.4	0.2	0.3	1.4	1.8	1.2	0.5	0.3	0.2	0.4	0.6	0.6
Below Normal (6%)	0.5	0.3	0.0	0.5	0.7	0.6	0.2	0.1	0.2	0.3	0.5	0.5
Dry (13%)	0.3	0.1	0.1	0.1	0.2	0.4	0.1	0.1	0.2	0.4	0.5	0.5
Critical (25%)	0.3	0.2	0.1	0.1	0.2	0.2	0.0	0.0	0.1	0.4	0.5	0.5

Alternative 6A,6B,6C (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.3	1.6	2.0	2.1	3.1	2.3	1.8	1.2	1.2	1.4	1.5	1.6
20%	1.2	1.2	1.2	1.8	2.1	2.0	1.1	1.1	1.1	1.3	1.4	1.4
30%	1.2	1.1	1.2	1.5	1.7	1.5	1.0	1.0	1.1	1.2	1.4	1.4
40%	1.2	1.1	1.2	1.3	1.3	1.3	1.0	1.0	1.0	1.2	1.3	1.3
50%	1.1	1.0	1.1	1.1	1.2	1.3	1.0	0.9	1.0	1.2	1.3	1.3
60%	1.1	1.0	1.1	1.1	1.1	1.2	1.0	0.9	1.0	1.2	1.3	1.3
70%	1.1	1.0	1.0	1.1	1.1	1.0	0.9	0.9	1.0	1.1	1.3	1.3
80%	1.1	0.9	0.9	0.9	1.0	0.9	0.8	0.8	1.0	1.1	1.2	1.3
90%	1.1	0.9	0.8	0.9	0.9	0.9	0.7	0.8	0.9	1.1	1.1	1.2
Long Term												
Full Simulation Period[a]	1.2	1.1	1.3	1.4	1.6	1.5	1.1	1.0	1.1	1.2	1.3	1.4
Water Year Types[b]												
Wet (31%)	1.3	1.5	1.9	1.8	2.6	2.5	1.6	1.2	1.3	1.4	1.4	1.6
Above Normal (25%)	1.1	1.0	1.2	2.1	2.4	1.9	1.2	1.1	1.0	1.2	1.3	1.3
Below Normal (6%)	1.2	1.1	0.9	1.4	1.4	1.4	1.0	0.9	1.0	1.1	1.2	1.2
Dry (13%)	1.1	1.0	1.0	1.0	1.0	1.1	0.9	0.9	1.0	1.2	1.3	1.3
Critical (25%)	1.1	1.0	1.0	1.0	1.0	0.9	0.8	0.8	0.9	1.2	1.3	1.3

Alternative 6A,6B,6C (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.8	0.8	0.9	0.7	0.5	0.6	0.7	0.7	0.8	0.8	0.8	0.7
20%	0.8	0.8	0.8	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8
30%	0.8	0.8	0.9	0.8	0.7	0.7	0.7	0.8	0.9	0.8	0.8	0.8
40%	0.8	0.8	0.9	0.8	0.8	0.7	0.8	0.8	0.8	0.8	0.8	0.7
50%	0.8	0.8	0.9	0.8	0.8	0.7	0.8	0.8	0.8	0.8	0.8	0.8
60%	0.8	0.8	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
70%	0.8	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.9	0.8	0.8	0.8
80%	0.8	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
90%	0.8	0.8	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Long Term												
Full Simulation Period[a]	0.8	0.8	0.9	0.8	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8
Water Year Types[b]												
Wet (31%)	0.8	0.8	0.8	0.8	0.6	0.6	0.7	0.8	0.8	0.8	0.8	0.7
Above Normal (25%)	0.8	0.8	0.9	0.7	0.6	0.6	0.7	0.8	0.8	0.8	0.8	0.7
Below Normal (6%)	0.8	0.8	0.9	0.8	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8
Dry (13%)	0.8	0.8	0.9	0.9	0.8	0.8	0.8	0.8	0.9	0.8	0.8	0.8
Critical (25%)	0.8	0.8	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-32-2-23. Sacramento River at Rio Vista, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.6	0.7	1.1	1.4	2.6	1.7	1.1	0.5	0.4	0.7	0.7	0.9
20%	0.5	0.4	0.4	1.1	1.4	1.4	0.3	0.3	0.2	0.5	0.6	0.7
30%	0.4	0.3	0.3	0.8	1.0	0.8	0.3	0.2	0.2	0.5	0.6	0.6
40%	0.4	0.3	0.3	0.4	0.5	0.6	0.2	0.1	0.2	0.4	0.5	0.6
50%	0.3	0.2	0.2	0.3	0.4	0.5	0.2	0.1	0.2	0.4	0.5	0.6
60%	0.3	0.2	0.2	0.2	0.3	0.5	0.2	0.1	0.2	0.4	0.5	0.5
70%	0.3	0.1	0.1	0.2	0.3	0.3	0.1	0.1	0.1	0.4	0.5	0.5
80%	0.3	0.1	0.0	0.0	0.2	0.1	0.1	0.0	0.1	0.3	0.4	0.5
90%	0.3	0.0	-0.1	0.0	0.1	0.1	-0.1	-0.1	0.1	0.3	0.4	0.4
Long Term												
Full Simulation Period[a]	0.4	0.3	0.4	0.5	0.9	0.8	0.3	0.2	0.2	0.4	0.5	0.6
Water Year Types[b]												
Wet (31%)	0.5	0.7	1.1	1.0	2.0	1.9	0.9	0.4	0.5	0.6	0.7	0.9
Above Normal (25%)	0.4	0.2	0.3	1.4	1.8	1.2	0.5	0.3	0.2	0.4	0.6	0.6
Below Normal (6%)	0.5	0.3	0.0	0.5	0.7	0.6	0.2	0.1	0.2	0.3	0.5	0.5
Dry (13%)	0.3	0.1	0.1	0.1	0.2	0.4	0.1	0.1	0.2	0.4	0.5	0.5
Critical (25%)	0.3	0.2	0.1	0.1	0.2	0.2	0.0	0.0	0.1	0.4	0.5	0.5

Alternative 7 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.4	1.5	2.0	2.1	3.1	2.4	1.8	1.2	1.2	1.5	1.5	1.7
20%	1.2	1.2	1.2	1.8	2.1	2.0	1.1	1.1	1.1	1.3	1.4	1.4
30%	1.2	1.1	1.2	1.6	1.7	1.5	1.0	1.0	1.1	1.3	1.4	1.4
40%	1.2	1.1	1.2	1.3	1.3	1.3	1.0	1.0	1.0	1.2	1.4	1.4
50%	1.1	1.0	1.1	1.1	1.2	1.3	1.0	0.9	1.0	1.2	1.3	1.3
60%	1.1	1.0	1.1	1.1	1.1	1.2	1.0	0.9	1.0	1.2	1.3	1.3
70%	1.1	1.0	1.0	1.1	1.1	1.0	0.9	0.9	1.0	1.2	1.3	1.3
80%	1.1	0.9	0.9	0.9	1.0	0.9	0.8	0.8	1.0	1.2	1.2	1.3
90%	1.1	0.9	0.8	0.9	0.9	0.9	0.7	0.8	0.9	1.1	1.2	1.2
Long Term												
Full Simulation Period[a]	1.2	1.1	1.3	1.4	1.6	1.5	1.1	1.0	1.1	1.2	1.3	1.4
Water Year Types[b]												
Wet (31%)	1.3	1.5	1.9	1.8	2.6	2.5	1.6	1.2	1.3	1.4	1.4	1.7
Above Normal (25%)	1.1	1.0	1.2	2.1	2.4	1.9	1.2	1.1	1.0	1.2	1.3	1.3
Below Normal (6%)	1.2	1.1	0.9	1.4	1.4	1.4	1.0	0.9	1.0	1.1	1.2	1.2
Dry (13%)	1.1	1.0	1.0	1.0	1.0	1.1	0.9	0.9	1.0	1.2	1.3	1.3
Critical (25%)	1.1	1.0	1.0	1.0	1.0	0.9	0.8	0.8	1.0	1.2	1.3	1.3

Alternative 7 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.8	0.8	0.9	0.7	0.5	0.6	0.7	0.7	0.8	0.8	0.8	0.7
20%	0.8	0.8	0.8	0.7	0.7	0.6	0.8	0.8	0.8	0.8	0.8	0.8
30%	0.8	0.8	0.9	0.8	0.7	0.7	0.7	0.8	0.9	0.8	0.8	0.8
40%	0.8	0.8	0.9	0.8	0.8	0.7	0.8	0.8	0.8	0.8	0.8	0.8
50%	0.8	0.8	0.9	0.8	0.8	0.7	0.8	0.8	0.8	0.8	0.8	0.8
60%	0.8	0.8	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
70%	0.8	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.9	0.8	0.8	0.8
80%	0.8	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
90%	0.8	0.8	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Long Term												
Full Simulation Period[a]	0.8	0.8	0.9	0.8	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8
Water Year Types[b]												
Wet (31%)	0.8	0.8	0.8	0.8	0.6	0.6	0.7	0.8	0.8	0.8	0.8	0.8
Above Normal (25%)	0.8	0.8	0.9	0.7	0.6	0.6	0.7	0.8	0.8	0.8	0.8	0.8
Below Normal (6%)	0.7	0.8	0.9	0.8	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8
Dry (13%)	0.8	0.8	0.9	0.9	0.8	0.8	0.8	0.8	0.9	0.8	0.8	0.8
Critical (25%)	0.8	0.8	0.9	0.9	0.8	0.8	0.8	0.8	0.9	0.8	0.8	0.8

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-32-2-24. Sacramento River at Rio Vista, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.6	0.7	1.1	1.4	2.6	1.7	1.1	0.5	0.4	0.7	0.7	0.9
20%	0.5	0.4	0.4	1.1	1.4	1.4	0.3	0.3	0.2	0.5	0.6	0.7
30%	0.4	0.3	0.3	0.8	1.0	0.8	0.3	0.2	0.2	0.5	0.6	0.6
40%	0.4	0.3	0.3	0.4	0.5	0.6	0.2	0.1	0.2	0.4	0.5	0.6
50%	0.3	0.2	0.2	0.3	0.4	0.5	0.2	0.1	0.2	0.4	0.5	0.6
60%	0.3	0.2	0.2	0.2	0.3	0.5	0.2	0.1	0.2	0.4	0.5	0.5
70%	0.3	0.1	0.1	0.2	0.3	0.3	0.1	0.1	0.1	0.4	0.5	0.5
80%	0.3	0.1	0.0	0.0	0.2	0.1	0.1	0.0	0.1	0.3	0.4	0.5
90%	0.3	0.0	-0.1	0.0	0.1	0.1	-0.1	-0.1	0.1	0.3	0.4	0.4
Long Term												
Full Simulation Period[a]	0.4	0.3	0.4	0.5	0.9	0.8	0.3	0.2	0.2	0.4	0.5	0.6
Water Year Types[b]												
Wet (31%)	0.5	0.7	1.1	1.0	2.0	1.9	0.9	0.4	0.5	0.6	0.7	0.9
Above Normal (25%)	0.4	0.2	0.3	1.4	1.8	1.2	0.5	0.3	0.2	0.4	0.6	0.6
Below Normal (6%)	0.5	0.3	0.0	0.5	0.7	0.6	0.2	0.1	0.2	0.3	0.5	0.5
Dry (13%)	0.3	0.1	0.1	0.1	0.2	0.4	0.1	0.1	0.2	0.4	0.5	0.5
Critical (25%)	0.3	0.2	0.1	0.1	0.2	0.2	0.0	0.0	0.1	0.4	0.5	0.5

Alternative 8 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1.4	1.6	2.0	2.2	3.1	2.3	1.8	1.3	1.2	1.5	1.5	1.7
20%	1.2	1.2	1.2	1.8	2.2	2.0	1.1	1.1	1.1	1.3	1.4	1.4
30%	1.2	1.1	1.2	1.6	1.7	1.6	1.0	1.0	1.1	1.3	1.4	1.4
40%	1.2	1.1	1.2	1.3	1.3	1.3	1.0	1.0	1.0	1.2	1.3	1.4
50%	1.1	1.0	1.1	1.2	1.2	1.3	1.0	1.0	1.0	1.2	1.3	1.3
60%	1.1	1.0	1.1	1.1	1.2	1.3	1.0	0.9	1.0	1.2	1.3	1.3
70%	1.1	1.0	1.0	1.1	1.1	1.1	0.9	0.9	1.0	1.2	1.3	1.3
80%	1.1	0.9	0.9	0.9	1.0	0.9	0.9	0.8	1.0	1.1	1.2	1.3
90%	1.1	0.9	0.8	0.9	0.9	0.9	0.8	0.8	0.9	1.1	1.2	1.2
Long Term												
Full Simulation Period[a]	1.2	1.1	1.3	1.4	1.6	1.5	1.1	1.0	1.1	1.2	1.3	1.4
Water Year Types[b]												
Wet (31%)	1.3	1.5	1.9	1.8	2.6	2.5	1.6	1.2	1.3	1.4	1.4	1.7
Above Normal (25%)	1.1	1.0	1.2	2.2	2.4	1.9	1.3	1.1	1.0	1.2	1.3	1.3
Below Normal (6%)	1.2	1.1	0.9	1.4	1.4	1.4	1.0	1.0	1.0	1.1	1.2	1.2
Dry (13%)	1.1	1.0	1.0	1.0	1.0	1.2	0.9	0.9	1.0	1.2	1.3	1.3
Critical (25%)	1.1	1.0	1.0	1.0	1.0	0.9	0.9	0.8	1.0	1.2	1.3	1.3

Alternative 8 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0.8	0.8	0.9	0.8	0.5	0.6	0.7	0.8	0.8	0.8	0.8	0.7
20%	0.8	0.8	0.8	0.7	0.8	0.6	0.8	0.8	0.8	0.8	0.8	0.8
30%	0.8	0.8	0.9	0.8	0.7	0.7	0.8	0.8	0.9	0.8	0.8	0.8
40%	0.8	0.8	0.9	0.9	0.8	0.7	0.8	0.8	0.9	0.8	0.8	0.8
50%	0.8	0.8	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8
60%	0.8	0.8	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
70%	0.8	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.9	0.8	0.8	0.8
80%	0.8	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
90%	0.8	0.8	0.9	0.9	0.8	0.8	0.9	0.8	0.8	0.8	0.8	0.8
Long Term												
Full Simulation Period[a]	0.8	0.8	0.9	0.8	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8
Water Year Types[b]												
Wet (31%)	0.8	0.8	0.8	0.8	0.6	0.6	0.7	0.8	0.8	0.8	0.8	0.8
Above Normal (25%)	0.8	0.8	0.9	0.8	0.6	0.6	0.7	0.8	0.8	0.8	0.8	0.8
Below Normal (6%)	0.7	0.8	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Dry (13%)	0.8	0.8	0.9	0.9	0.9	0.8	0.8	0.8	0.9	0.8	0.8	0.8
Critical (25%)	0.8	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.9	0.8	0.8	0.8

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-32-2-25. Sacramento River at Rio Vista, Monthly Averaged Daily Minimum Elevation

No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.6	0.7	1.1	1.4	2.6	1.7	1.1	0.5	0.4	0.7	0.7	0.9
20%	0.5	0.4	0.4	1.1	1.4	1.4	0.3	0.3	0.2	0.5	0.6	0.7
30%	0.4	0.3	0.3	0.8	1.0	0.8	0.3	0.2	0.2	0.5	0.6	0.6
40%	0.4	0.3	0.3	0.4	0.5	0.6	0.2	0.1	0.2	0.4	0.5	0.6
50%	0.3	0.2	0.2	0.3	0.4	0.5	0.2	0.1	0.2	0.4	0.5	0.6
60%	0.3	0.2	0.2	0.2	0.3	0.5	0.2	0.1	0.2	0.4	0.5	0.5
70%	0.3	0.1	0.1	0.2	0.3	0.3	0.1	0.1	0.1	0.4	0.5	0.5
80%	0.3	0.1	0.0	0.0	0.2	0.1	0.1	0.0	0.1	0.3	0.4	0.5
90%	0.3	0.0	-0.1	0.0	0.1	0.1	-0.1	-0.1	0.1	0.3	0.4	0.4
Long Term												
Full Simulation Period[a]	0.4	0.3	0.4	0.5	0.9	0.8	0.3	0.2	0.2	0.4	0.5	0.6
Water Year Types[b]												
Wet (31%)	0.5	0.7	1.1	1.0	2.0	1.9	0.9	0.4	0.5	0.6	0.7	0.9
Above Normal (25%)	0.4	0.2	0.3	1.4	1.8	1.2	0.5	0.3	0.2	0.4	0.6	0.6
Below Normal (6%)	0.5	0.3	0.0	0.5	0.7	0.6	0.2	0.1	0.2	0.3	0.5	0.5
Dry (13%)	0.3	0.1	0.1	0.1	0.2	0.4	0.1	0.1	0.2	0.4	0.5	0.5
Critical (25%)	0.3	0.2	0.1	0.1	0.2	0.2	0.0	0.0	0.1	0.4	0.5	0.5

Alternative 9 (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.3	1.5	1.9	2.2	3.2	2.4	1.8	1.2	1.2	1.4	1.4	1.6
20%	1.2	1.2	1.1	1.8	2.2	2.1	1.1	1.1	1.1	1.2	1.4	1.4
30%	1.1	1.1	1.1	1.5	1.7	1.5	1.0	1.0	1.0	1.2	1.3	1.3
40%	1.1	1.1	1.1	1.3	1.3	1.3	1.0	0.9	1.0	1.2	1.3	1.3
50%	1.1	1.0	1.0	1.1	1.1	1.3	0.9	0.9	1.0	1.2	1.3	1.3
60%	1.1	1.0	1.0	1.0	1.1	1.2	0.9	0.9	1.0	1.2	1.3	1.3
70%	1.1	0.9	0.9	1.0	1.0	1.0	0.9	0.9	1.0	1.1	1.2	1.3
80%	1.0	0.9	0.8	0.9	0.9	0.8	0.8	0.8	1.0	1.1	1.2	1.2
90%	1.0	0.8	0.8	0.8	0.9	0.8	0.7	0.7	0.9	1.1	1.1	1.2
Long Term												
Full Simulation Period[a]	1.1	1.1	1.2	1.3	1.6	1.5	1.1	1.0	1.0	1.2	1.3	1.4
Water Year Types[b]												
Wet (31%)	1.3	1.4	1.9	1.8	2.6	2.5	1.6	1.2	1.3	1.4	1.4	1.6
Above Normal (25%)	1.1	0.9	1.1	2.2	2.5	1.9	1.2	1.0	1.0	1.2	1.3	1.2
Below Normal (6%)	1.1	1.0	0.8	1.3	1.4	1.4	0.9	0.9	1.0	1.0	1.2	1.2
Dry (13%)	1.1	0.9	0.9	0.9	1.0	1.1	0.9	0.9	1.0	1.1	1.2	1.3
Critical (25%)	1.1	1.0	0.9	0.9	1.0	0.9	0.8	0.8	0.9	1.2	1.3	1.3

Alternative 9 (LLT) minus No Action Alternative (LLT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.7	0.8	0.8	0.8	0.5	0.7	0.7	0.8	0.8	0.8	0.7	0.7
20%	0.7	0.8	0.8	0.8	0.8	0.7	0.8	0.8	0.8	0.7	0.8	0.7
30%	0.7	0.8	0.8	0.8	0.7	0.7	0.7	0.8	0.8	0.7	0.7	0.7
40%	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.8	0.8	0.8	0.7	0.7
50%	0.8	0.7	0.8	0.8	0.8	0.7	0.7	0.8	0.8	0.8	0.7	0.7
60%	0.8	0.8	0.8	0.8	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.7
70%	0.7	0.8	0.8	0.8	0.8	0.7	0.8	0.8	0.8	0.7	0.7	0.7
80%	0.7	0.8	0.8	0.8	0.8	0.7	0.7	0.8	0.8	0.8	0.7	0.7
90%	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7
Long Term												
Full Simulation Period[a]	0.7	0.8	0.8	0.8	0.7	0.7	0.7	0.8	0.8	0.8	0.7	0.7
Water Year Types[b]												
Wet (31%)	0.7	0.8	0.8	0.8	0.6	0.6	0.7	0.8	0.8	0.8	0.7	0.7
Above Normal (25%)	0.7	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.8	0.7	0.7	0.7
Below Normal (6%)	0.7	0.7	0.8	0.8	0.7	0.7	0.7	0.8	0.8	0.7	0.7	0.7
Dry (13%)	0.8	0.8	0.8	0.8	0.8	0.7	0.8	0.8	0.8	0.8	0.7	0.8
Critical (25%)	0.8	0.8	0.8	0.8	0.8	0.7	0.8	0.8	0.8	0.8	0.8	0.8

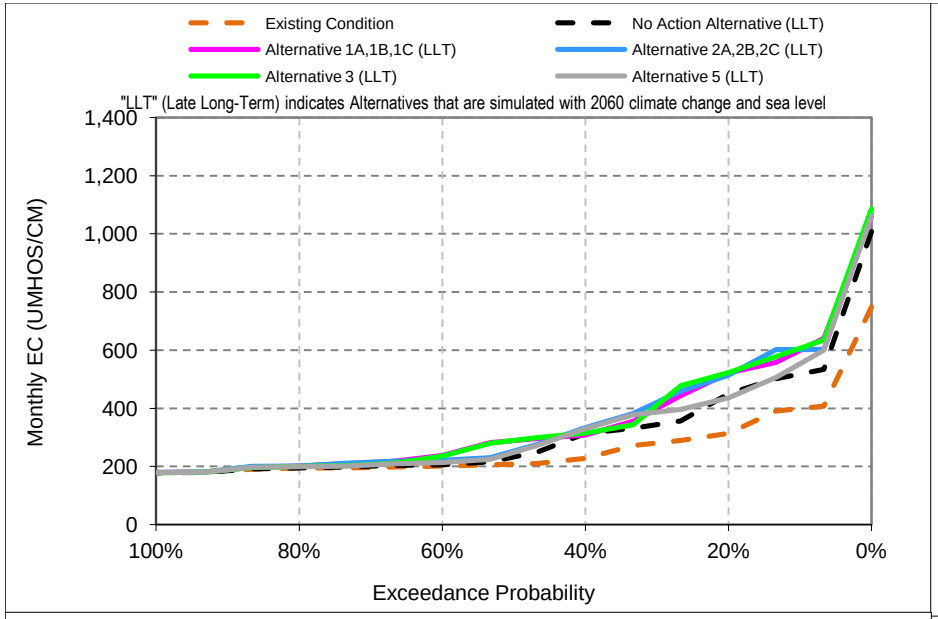
a Based on the 16-year simulation period

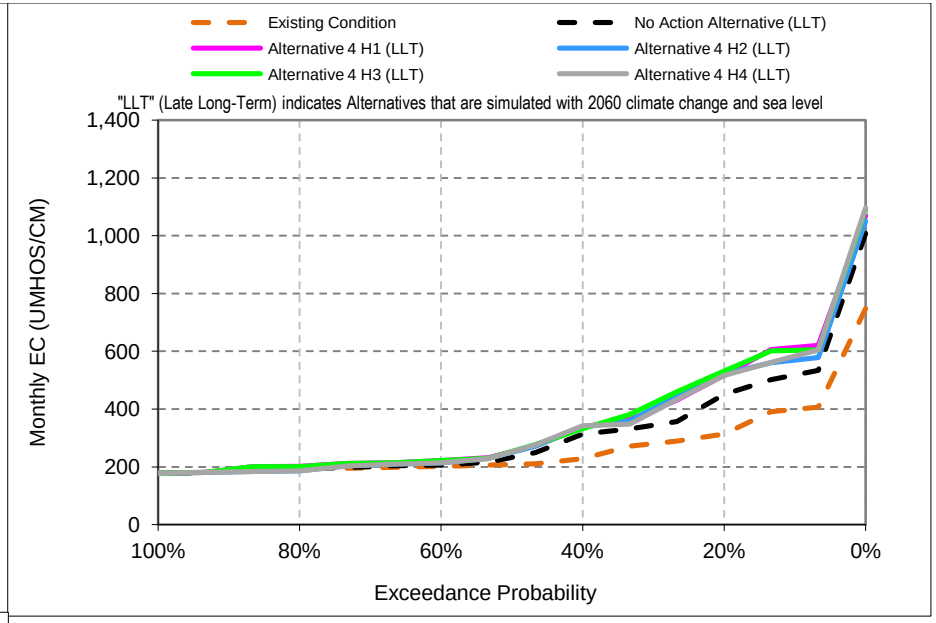
b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

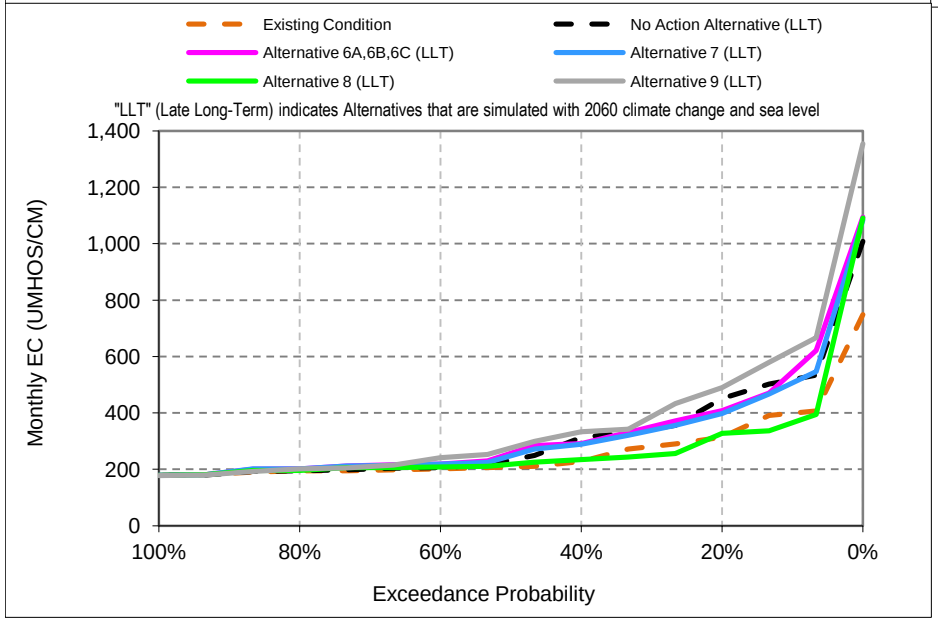
The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

C.33. Sacramento River at Emmaton Salinity



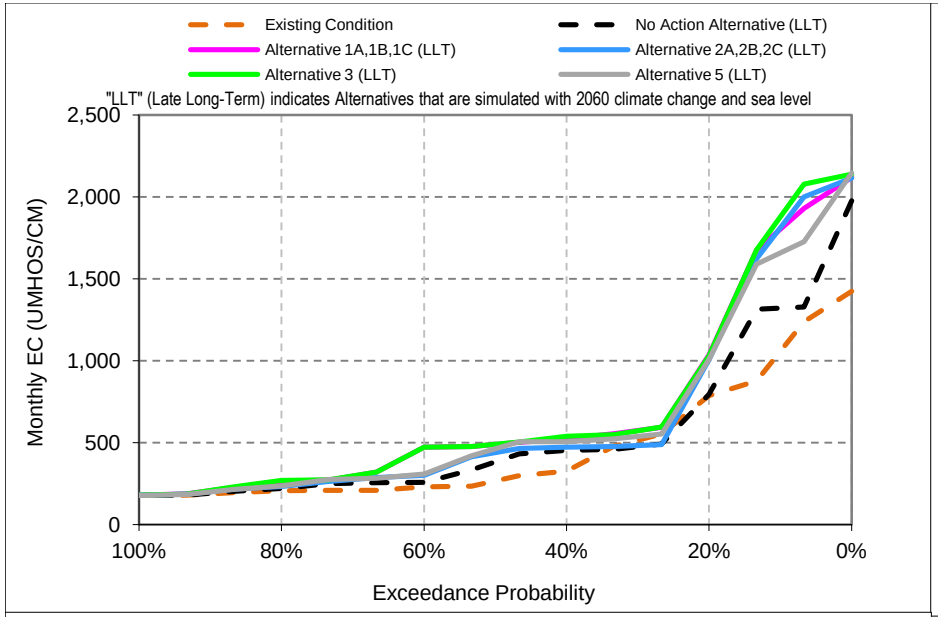


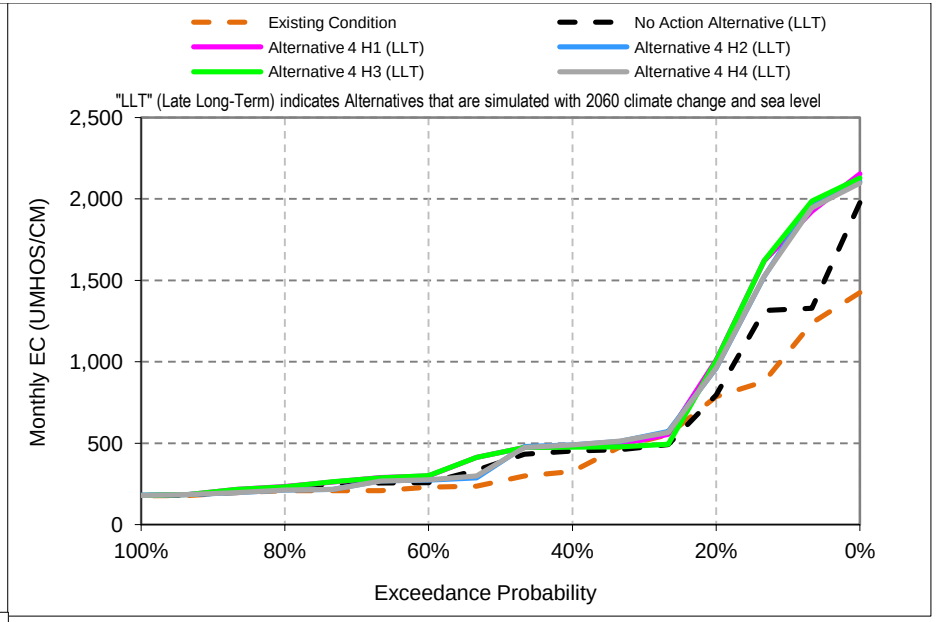


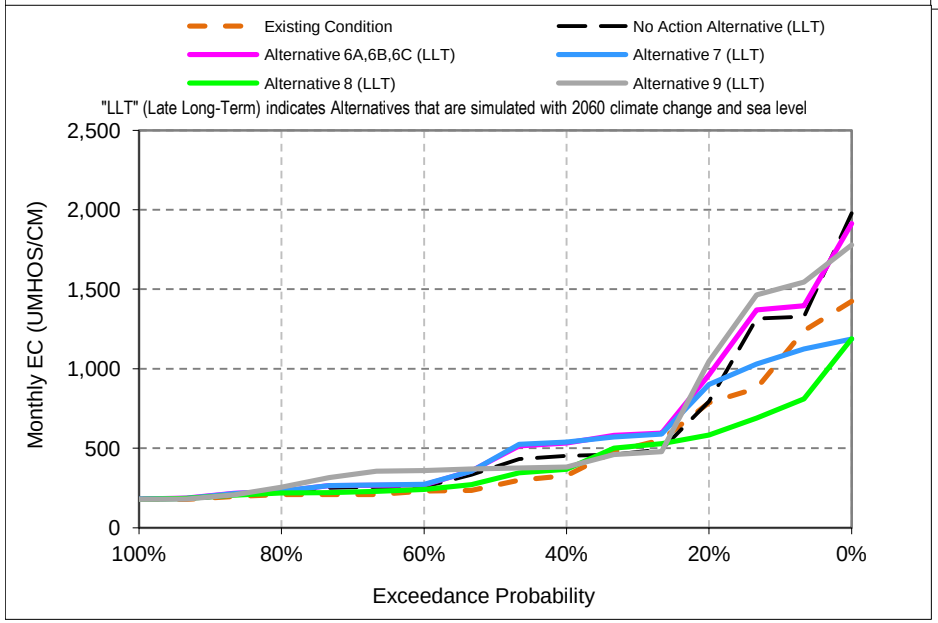
Alternative 4 Scenario Definitions:

H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

Figure C-33-1. Sacramento River at Emmaton, April EC



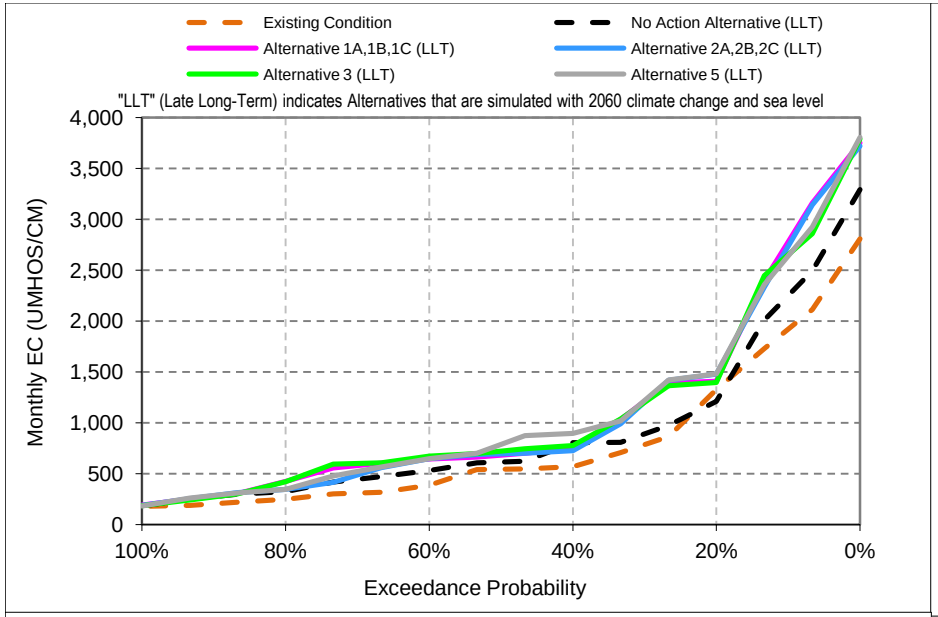


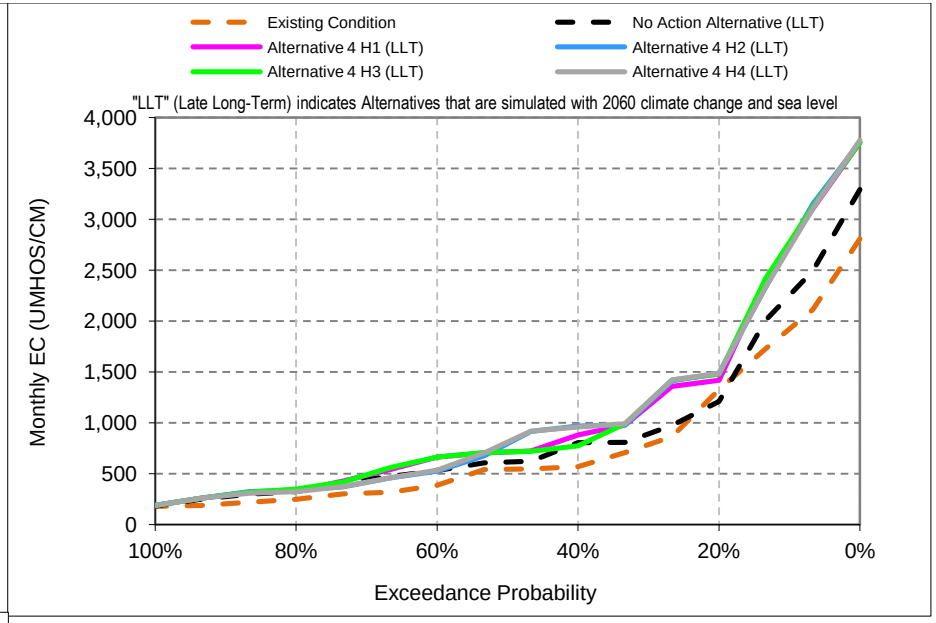


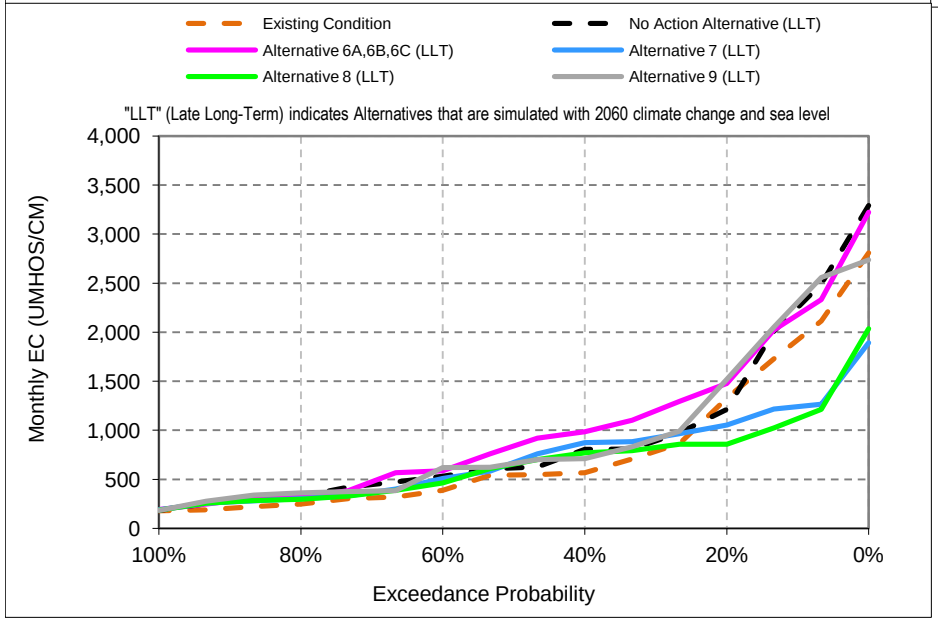
Alternative 4 Scenario Definitions:

H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

Figure C-33-2. Sacramento River at Emmaton, May EC



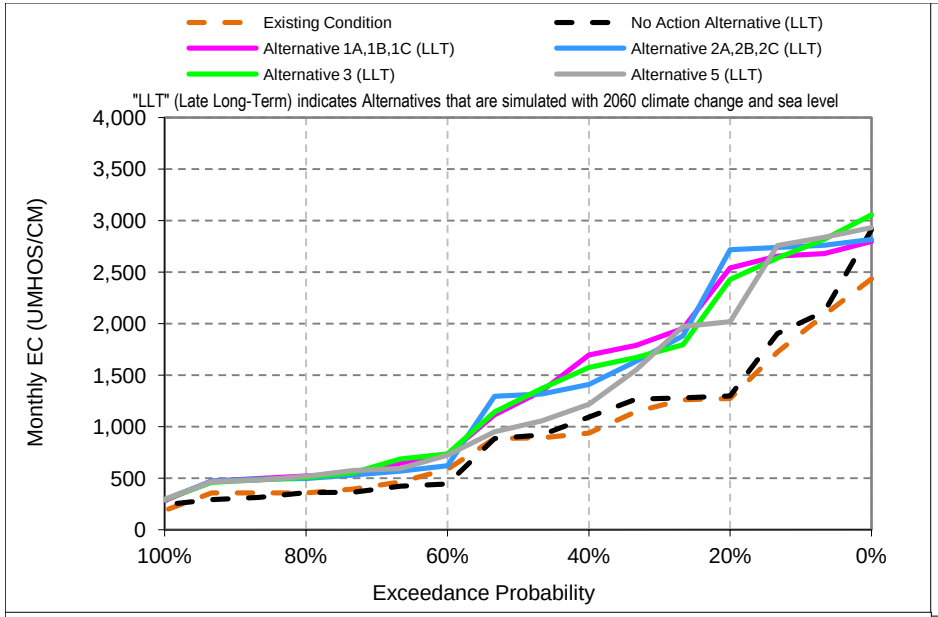


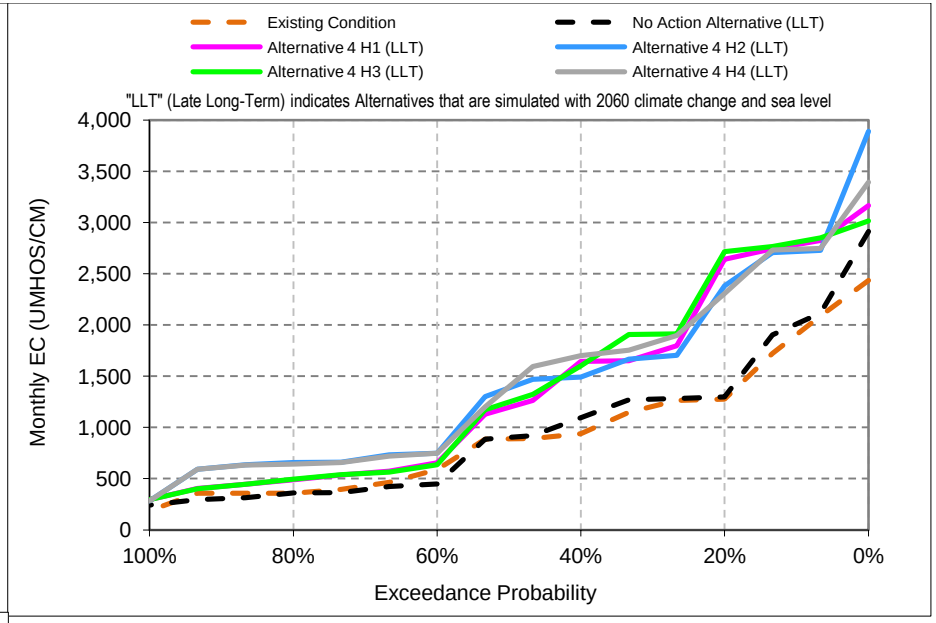


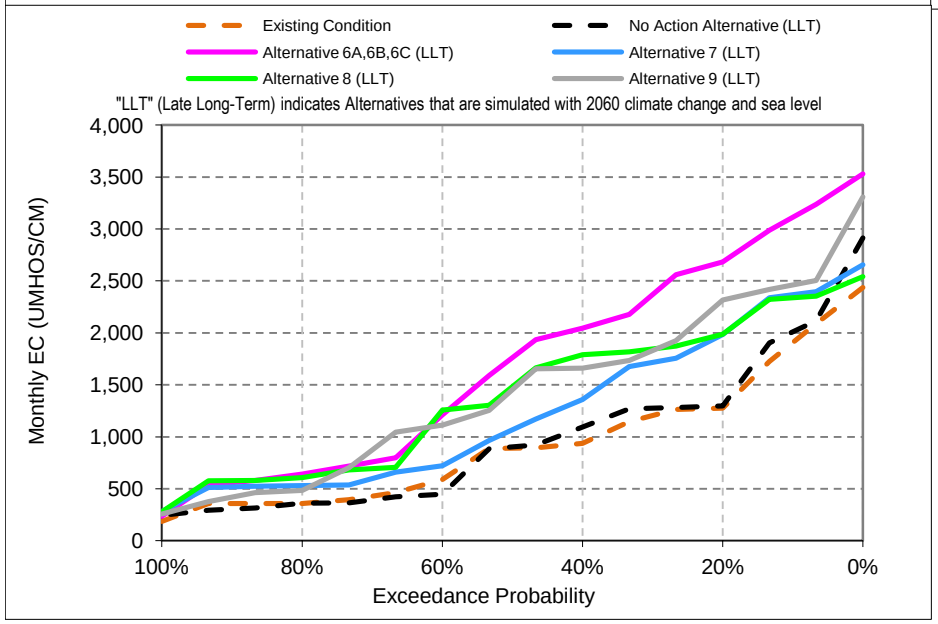
Alternative 4 Scenario Definitions:

H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

Figure C-33-3. Sacramento River at Emmaton, June EC



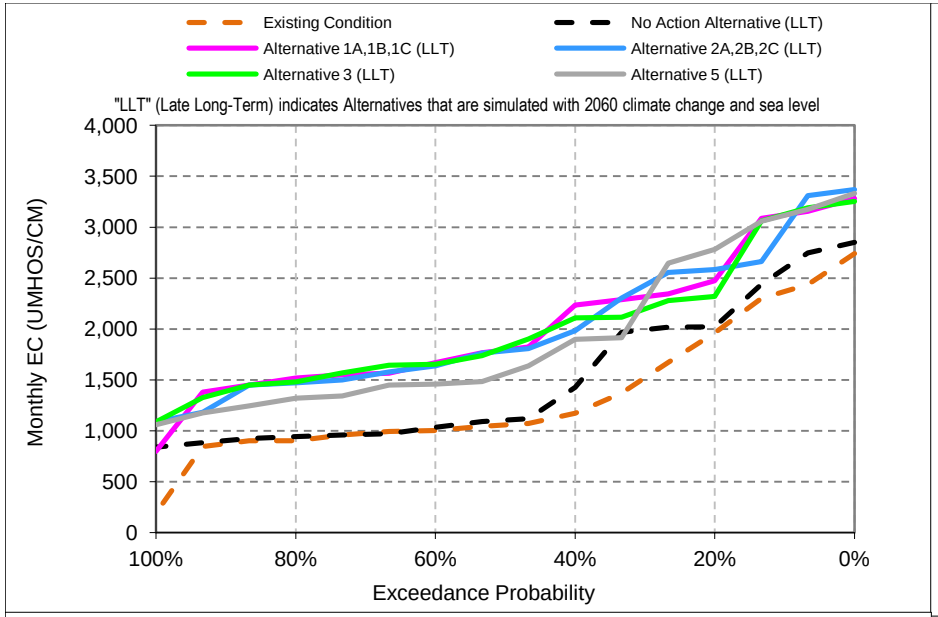


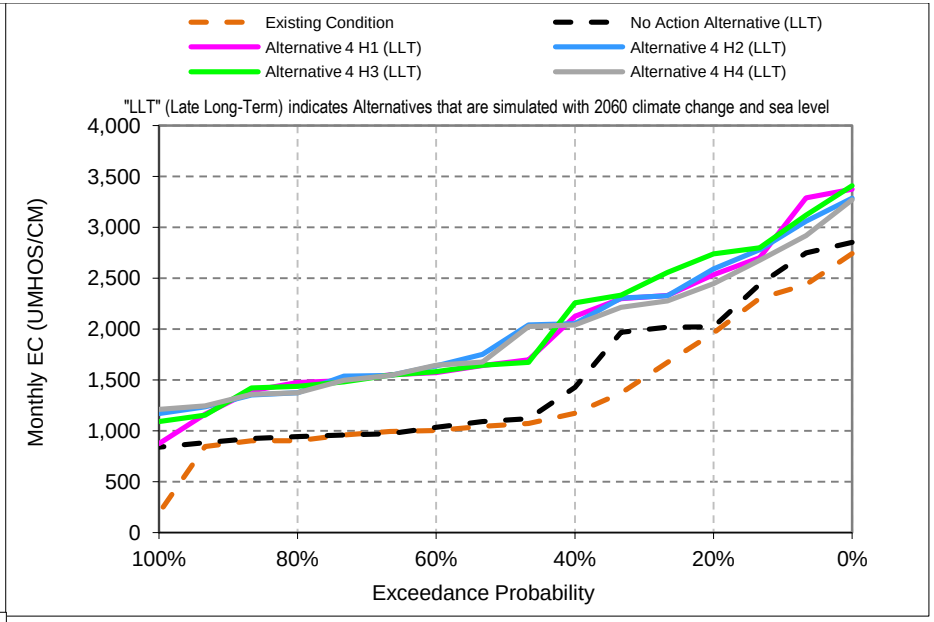


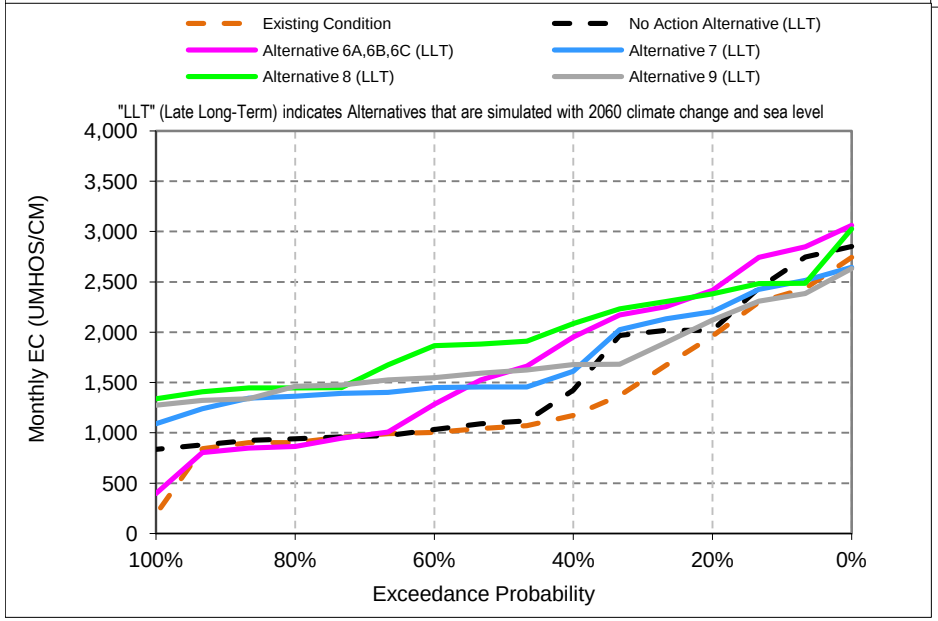
Alternative 4 Scenario Definitions:

H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

Figure C-33-4. Sacramento River at Emmaton, July EC







Alternative 4 Scenario Definitions:

H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

Figure C-33-5. Sacramento River at Emmaton, August EC

Table C-33-1. Sacramento River at Emmaton, Monthly EC

Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,462	3,217	2,195	1,281	947	429	399	1,058	1,921	1,906	2,367	3,248
20%	2,966	2,928	1,950	872	616	295	314	787	1,328	1,275	1,961	3,130
30%	2,828	2,711	1,919	794	321	263	281	516	787	1,205	1,521	2,583
40%	2,685	2,585	1,806	576	285	230	228	327	568	938	1,172	2,358
50%	2,477	2,560	1,023	472	236	206	208	268	545	890	1,057	2,179
60%	2,022	2,463	830	281	199	192	202	231	388	589	1,003	1,986
70%	1,607	1,448	789	249	192	189	197	209	311	430	974	1,791
80%	1,444	741	204	198	186	185	195	208	247	359	902	1,595
90%	336	389	182	194	184	182	186	188	205	357	873	836
Long Term												
Full Simulation Period[a]	2,182	2,096	1,250	613	405	271	275	477	816	960	1,347	2,134
Water Year Types[b]												
Wet (31%)	1,414	1,125	337	245	184	183	190	200	265	351	758	1,026
Above Normal (25%)	3,219	2,485	1,408	222	194	188	195	202	234	358	986	1,594
Below Normal (6%)	1,624	2,548	2,161	787	242	193	206	209	319	589	957	2,358
Dry (13%)	2,097	2,443	1,385	643	422	219	230	335	592	966	1,122	2,123
Critical (25%)	2,560	2,349	1,626	1,004	685	431	426	976	1,768	1,757	2,222	3,199

No Action Alternative (LLT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,246	3,738	3,029	1,137	1,135	609	518	1,322	2,252	2,010	2,593	3,748
20%	2,527	2,815	2,418	886	571	401	451	795	1,212	1,298	2,019	3,592
30%	2,421	2,699	1,743	795	401	371	344	476	891	1,275	1,992	3,325
40%	2,315	2,568	1,022	758	388	253	313	453	805	1,095	1,425	2,876
50%	2,146	1,681	976	580	321	228	233	383	616	903	1,104	2,806
60%	650	712	904	448	211	199	206	258	531	447	1,034	2,559
70%	480	554	720	264	191	190	201	254	446	394	966	680
80%	286	334	310	196	186	184	195	220	325	362	942	504
90%	280	226	184	192	182	182	186	192	275	304	903	367
Long Term												
Full Simulation Period[a]	1,707	1,772	1,332	679	481	327	332	571	957	1,008	1,514	2,253
Water Year Types[b]												
Wet (31%)	1,275	1,188	371	254	183	183	192	238	359	331	928	386
Above Normal (25%)	2,945	2,779	1,720	223	191	187	196	212	359	338	933	680
Below Normal (6%)	642	712	1,084	758	273	199	216	256	325	920	1,425	2,756
Dry (13%)	974	1,263	1,113	809	506	263	282	407	711	931	1,300	2,919
Critical (25%)	2,356	2,454	2,169	1,081	858	575	562	1,175	1,996	1,897	2,404	3,743

No Action Alternative (LLT) minus Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-216	**521**	**834**	-144	**188**	**180**	**119**	**263**	**331**	**104**	**226**	**501**
20%	-439	-113	**467**	**14**	-45	**106**	**137**	**9**	-116	**22**	**59**	**462**
30%	-407	-12	-175	**2**	**80**	**108**	**63**	-40	**105**	**70**	**471**	**742**
40%	-370	-17	-784	**182**	**103**	**23**	**85**	**126**	**237**	**157**	**253**	**518**
50%	-331	-879	-48	**107**	**85**	**22**	**25**	**116**	**71**	**13**	**47**	**627**
60%	-1,371	-1,751	**74**	**167**	**12**	**7**	**4**	**27**	**143**	-143	**31**	**573**
70%	-1,128	-894	-69	**15**	-1	**1**	**4**	**44**	**135**	-35	-9	-1,111
80%	-1,159	-407	**106**	-2	0	-1	**0**	**12**	**77**	**4**	**40**	-1,091
90%	-56	-163	**2**	-2	-1	**0**	**0**	**4**	**71**	-53	**30**	-469
Long Term												
Full Simulation Period[a]	-475	-324	**82**	**66**	**77**	**56**	**57**	**94**	**141**	**48**	**167**	**120**
Water Year Types[b]												
Wet (31%)	-140	**63**	**34**	**9**	-1	0	**2**	**38**	**95**	-19	**171**	-640
Above Normal (25%)	-273	**295**	**311**	**2**	-3	-2	**1**	**9**	**125**	-19	-53	-914
Below Normal (6%)	-982	-1,836	-1,077	-29	**31**	**5**	**10**	**47**	**6**	**331**	**468**	**398**
Dry (13%)	-1,124	-1,180	-272	**167**	**84**	**44**	**53**	**72**	**119**	-35	**178**	**795**
Critical (25%)	-204	**105**	**543**	**77**	**173**	**144**	**135**	**199**	**228**	**139**	**183**	**544**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

Table C-33-2. Sacramento River at Emmaton, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,462	3,217	2,195	1,281	947	429	399	1,058	1,921	1,906	2,367	3,248
20%	2,966	2,928	1,950	872	616	295	314	787	1,328	1,275	1,961	3,130
30%	2,828	2,711	1,919	794	321	263	281	516	787	1,205	1,521	2,583
40%	2,685	2,585	1,806	576	285	230	228	327	568	938	1,172	2,358
50%	2,477	2,560	1,023	472	236	206	208	268	545	890	1,057	2,179
60%	2,022	2,463	830	281	199	192	202	231	388	589	1,003	1,986
70%	1,607	1,448	789	249	192	189	197	209	311	430	974	1,791
80%	1,444	741	204	198	186	185	195	208	247	359	902	1,595
90%	336	389	182	194	184	182	186	188	205	357	873	836
Long Term												
Full Simulation Period[a]	2,182	2,096	1,250	613	405	271	275	477	816	960	1,347	2,134
Water Year Types[b]												
Wet (31%)	1,414	1,125	337	245	184	183	190	200	265	351	758	1,026
Above Normal (25%)	3,219	2,485	1,408	222	194	188	195	202	234	358	986	1,594
Below Normal (6%)	1,624	2,548	2,161	787	242	193	206	209	319	589	957	2,358
Dry (13%)	2,097	2,443	1,385	643	422	219	230	335	592	966	1,122	2,123
Critical (25%)	2,560	2,349	1,626	1,004	685	431	426	976	1,768	1,757	2,222	3,199

Alternative 1A,1B,1C (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,069	3,249	2,594	1,205	708	562	600	1,803	2,780	2,669	3,121	3,627
20%	2,712	3,059	2,176	939	658	461	522	1,034	1,410	2,541	2,473	3,430
30%	2,372	2,313	1,685	759	490	379	400	575	1,212	1,872	2,315	3,227
40%	2,176	2,075	1,548	650	360	307	309	524	749	1,696	2,236	3,084
50%	1,503	1,987	1,409	621	319	272	289	489	683	1,231	1,794	2,957
60%	1,286	1,417	1,188	495	223	223	238	473	644	730	1,668	2,861
70%	1,080	1,058	1,061	278	200	194	214	296	582	591	1,557	2,661
80%	871	985	393	203	189	188	201	266	424	523	1,519	2,081
90%	542	477	186	196	185	184	189	207	280	486	1,414	1,768
Long Term												
Full Simulation Period[a]	1,754	1,888	1,378	667	427	334	368	708	1,140	1,392	2,023	2,775
Water Year Types[b]												
Wet (31%)	1,217	917	398	306	186	186	202	320	412	491	1,597	2,528
Above Normal (25%)	2,140	2,620	1,523	216	198	191	207	249	456	626	1,593	2,913
Below Normal (6%)	550	1,115	1,618	783	281	223	281	473	424	1,347	2,344	3,617
Dry (13%)	2,416	2,607	1,540	695	470	291	291	462	787	1,309	1,603	2,625
Critical (25%)	1,741	1,951	1,926	1,090	706	568	645	1,447	2,422	2,494	2,809	2,868

Alternative 1A,1B,1C (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-393	**32**	**399**	-76	-239	**133**	**200**	**744**	**859**	**762**	**754**	**379**
20%	-254	**132**	**226**	**66**	**42**	**166**	**208**	**248**	**82**	**1,266**	**512**	**300**
30%	-457	-398	-234	-35	**169**	**116**	**119**	**59**	**426**	**667**	**794**	**644**
40%	-509	-511	-258	**73**	**75**	**76**	**80**	**197**	**181**	**759**	**1,064**	**725**
50%	-974	-573	**386**	**149**	**83**	**67**	**81**	**221**	**138**	**341**	**737**	**778**
60%	-735	-1,046	**358**	**214**	**24**	**31**	**36**	**243**	**256**	**141**	**665**	**875**
70%	-528	-390	**272**	**29**	**8**	**5**	**17**	**86**	**271**	**161**	**583**	**870**
80%	-573	**245**	**189**	**5**	**3**	**4**	**7**	**58**	**176**	**164**	**616**	**486**
90%	**205**	**89**	**4**	**2**	**1**	**2**	**3**	**19**	**75**	**128**	**541**	**932**
Long Term												
Full Simulation Period[a]	-428	-208	**128**	**54**	**22**	**64**	**93**	**231**	**324**	**432**	**676**	**641**
Water Year Types[b]												
Wet (31%)	-198	-209	**62**	**62**	**2**	**2**	**12**	**121**	**147**	**140**	**839**	**1,502**
Above Normal (25%)	-1,079	**136**	**115**	-6	**4**	**2**	**12**	**47**	**221**	**269**	**607**	**1,320**
Below Normal (6%)	-1,073	-1,434	-543	-4	**39**	**30**	**75**	**264**	**105**	**757**	**1,387**	**1,258**
Dry (13%)	**318**	**164**	**155**	**52**	**49**	**73**	**61**	**127**	**196**	**343**	**482**	**502**
Critical (25%)	-819	-398	**300**	**86**	**21**	**137**	**218**	**471**	**654**	**736**	**587**	-331

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-33-3. Sacramento River at Emmaton, Monthly EC

Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,462	3,217	2,195	1,281	947	429	399	1,058	1,921	1,906	2,367	3,248
20%	2,966	2,928	1,950	872	616	295	314	787	1,328	1,275	1,961	3,130
30%	2,828	2,711	1,919	794	321	263	281	516	787	1,205	1,521	2,583
40%	2,685	2,585	1,806	576	285	230	228	327	568	938	1,172	2,358
50%	2,477	2,560	1,023	472	236	206	208	268	545	890	1,057	2,179
60%	2,022	2,463	830	281	199	192	202	231	388	589	1,003	1,986
70%	1,607	1,448	789	249	192	189	197	209	311	430	974	1,791
80%	1,444	741	204	198	186	185	195	208	247	359	902	1,595
90%	336	389	182	194	184	182	186	188	205	357	873	836
Long Term												
Full Simulation Period[a]	2,182	2,096	1,250	613	405	271	275	477	816	960	1,347	2,134
Water Year Types[b]												
Wet (31%)	1,414	1,125	337	245	184	183	190	200	265	351	758	1,026
Above Normal (25%)	3,219	2,485	1,408	222	194	188	195	202	234	358	986	1,594
Below Normal (6%)	1,624	2,548	2,161	787	242	193	206	209	319	589	957	2,358
Dry (13%)	2,097	2,443	1,385	643	422	219	230	335	592	966	1,122	2,123
Critical (25%)	2,560	2,349	1,626	1,004	685	431	426	976	1,768	1,757	2,222	3,199

Alternative 2A,2B,2C (LLT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,902	3,529	2,035	771	861	522	602	1,811	2,737	2,750	2,986	3,543
20%	1,662	2,241	1,584	671	632	452	514	1,006	1,477	2,717	2,584	3,389
30%	1,532	1,784	1,295	631	364	395	420	483	1,204	1,759	2,429	3,110
40%	1,355	1,616	1,049	587	288	326	334	472	727	1,412	1,982	2,802
50%	1,124	1,311	982	477	283	244	253	439	696	1,307	1,785	2,299
60%	633	676	851	305	209	219	222	302	648	621	1,636	1,582
70%	426	577	650	259	201	194	215	275	487	552	1,538	741
80%	317	388	246	197	190	188	201	232	348	499	1,470	559
90%	307	255	185	195	185	184	191	202	285	483	1,314	466
Long Term												
Full Simulation Period[a]	1,300	1,519	1,106	499	403	334	368	670	1,120	1,379	2,015	2,042
Water Year Types[b]												
Wet (31%)	824	1,078	350	245	186	186	198	271	413	496	1,591	481
Above Normal (25%)	2,149	2,662	1,362	214	199	191	210	224	365	504	1,378	741
Below Normal (6%)	633	676	1,110	659	286	219	230	287	348	1,295	2,303	3,553
Dry (13%)	916	1,331	846	587	487	291	298	423	777	1,331	1,726	2,729
Critical (25%)	1,782	1,732	1,815	712	616	568	649	1,443	2,417	2,489	2,782	2,958

Alternative 2A,2B,2C (LLT) minus Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-560	**312**	-160	-510	-86	**93**	**203**	**753**	**817**	**844**	**619**	**296**
20%	-1,304	-687	-367	-201	**16**	**156**	**200**	**219**	**149**	**1,442**	**624**	**259**
30%	-1,297	-927	-624	-163	**42**	**132**	**140**	-33	**417**	**554**	**908**	**527**
40%	-1,330	-970	-757	**11**	**3**	**96**	**106**	**145**	**159**	**474**	**810**	**444**
50%	-1,353	-1,248	-42	**5**	**47**	**38**	**45**	**171**	**151**	**417**	**728**	**120**
60%	-1,388	-1,787	**21**	**23**	**10**	**27**	**20**	**71**	**260**	**32**	**632**	-404
70%	-1,182	-871	-139	**10**	**9**	**5**	**18**	**66**	**177**	**122**	**564**	-1,050
80%	-1,127	-352	**42**	-1	**4**	**3**	**7**	**24**	**100**	**141**	**567**	-1,036
90%	-29	-134	**3**	**1**	**1**	**2**	**5**	**14**	**80**	**125**	**442**	-370
Long Term												
Full Simulation Period[a]	-882	-578	-144	-114	-1	**63**	**92**	**193**	**305**	**419**	**667**	-92
Water Year Types[b]												
Wet (31%)	-590	-48	**13**	**1**	**2**	**2**	**8**	**71**	**149**	**145**	**833**	-545
Above Normal (25%)	-1,069	**178**	-47	-8	**5**	**2**	**15**	**22**	**131**	**146**	**392**	-853
Below Normal (6%)	-990	-1,872	-1,051	-128	**44**	**26**	**24**	**78**	**29**	**706**	**1,346**	**1,194**
Dry (13%)	-1,182	-1,112	-539	-56	**65**	**72**	**69**	**88**	**185**	**365**	**604**	**606**
Critical (25%)	-778	-617	**189**	-292	-69	**137**	**222**	**467**	**649**	**732**	**560**	-240

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-33-4. Sacramento River at Emmaton, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,462	3,217	2,195	1,281	947	429	399	1,058	1,921	1,906	2,367	3,248
20%	2,966	2,928	1,950	872	616	295	314	787	1,328	1,275	1,961	3,130
30%	2,828	2,711	1,919	794	321	263	281	516	787	1,205	1,521	2,583
40%	2,685	2,585	1,806	576	285	230	228	327	568	938	1,172	2,358
50%	2,477	2,560	1,023	472	236	206	208	268	545	890	1,057	2,179
60%	2,022	2,463	830	281	199	192	202	231	388	589	1,003	1,986
70%	1,607	1,448	789	249	192	189	197	209	311	430	974	1,791
80%	1,444	741	204	198	186	185	195	208	247	359	902	1,595
90%	336	389	182	194	184	182	186	188	205	357	873	836
Long Term												
Full Simulation Period[a]	2,182	2,096	1,250	613	405	271	275	477	816	960	1,347	2,134
Water Year Types[b]												
Wet (31%)	1,414	1,125	337	245	184	183	190	200	265	351	758	1,026
Above Normal (25%)	3,219	2,485	1,408	222	194	188	195	202	234	358	986	1,594
Below Normal (6%)	1,624	2,548	2,161	787	242	193	206	209	319	589	957	2,358
Dry (13%)	2,097	2,443	1,385	643	422	219	230	335	592	966	1,122	2,123
Critical (25%)	2,560	2,349	1,626	1,004	685	431	426	976	1,768	1,757	2,222	3,199

Alternative 3 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,164	3,056	2,570	1,010	779	554	607	1,878	2,654	2,729	3,125	3,561
20%	2,726	2,885	2,368	924	671	460	522	1,030	1,397	2,431	2,320	3,471
30%	2,393	2,407	1,785	797	467	361	410	573	1,202	1,733	2,197	3,280
40%	2,091	2,004	1,447	731	370	282	315	539	777	1,576	2,107	3,131
50%	1,391	1,738	1,279	578	318	257	289	491	723	1,258	1,818	2,995
60%	1,265	1,410	1,127	492	213	213	236	472	674	738	1,653	2,580
70%	808	1,331	939	257	192	189	207	297	601	622	1,606	2,471
80%	760	846	390	196	189	185	200	269	423	507	1,479	2,072
90%	607	483	182	192	183	183	188	209	274	473	1,386	1,853
Long Term												
Full Simulation Period[a]	1,717	1,809	1,396	603	402	332	371	720	1,135	1,389	2,010	2,746
Water Year Types[b]												
Wet (31%)	1,217	1,123	382	265	184	184	202	321	425	499	1,607	2,416
Above Normal (25%)	2,077	2,197	1,341	206	192	187	199	253	455	622	1,550	2,796
Below Normal (6%)	781	1,270	1,723	803	278	213	279	472	423	1,371	2,320	3,695
Dry (13%)	2,462	2,523	1,497	743	454	272	289	465	815	1,274	1,647	2,708
Critical (25%)	1,563	1,739	2,084	881	644	581	660	1,481	2,372	2,504	2,745	2,830

Alternative 3 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-298	-161	**375**	-271	-168	**125**	**207**	**820**	**733**	**823**	**758**	**314**
20%	-240	-43	**417**	**52**	**55**	**164**	**209**	**243**	**70**	**1,155**	**359**	**341**
30%	-435	-303	-134	**3**	**145**	**98**	**129**	**57**	**415**	**528**	**676**	**697**
40%	-595	-582	-359	**155**	**85**	**52**	**87**	**213**	**209**	**638**	**935**	**773**
50%	-1,086	-821	**255**	**105**	**82**	**52**	**81**	**223**	**178**	**368**	**761**	**816**
60%	-756	-1,053	**296**	**211**	**14**	**21**	**34**	**241**	**285**	**148**	**649**	**594**
70%	-799	-117	**150**	**8**	0	**0**	**11**	**88**	**290**	**193**	**632**	**680**
80%	-684	**105**	**186**	-2	**3**	**1**	**6**	**61**	**176**	**149**	**577**	**477**
90%	**270**	**94**	**0**	-2	-1	**2**	**3**	**21**	**69**	**115**	**514**	**1,017**
Long Term												
Full Simulation Period[a]	-465	-287	**146**	-9	-3	**61**	**96**	**243**	**319**	**429**	**663**	**612**
Water Year Types[b]												
Wet (31%)	-197	-2	**45**	**21**	**0**	**1**	**12**	**121**	**160**	**148**	**849**	**1,390**
Above Normal (25%)	-1,142	-288	-68	-16	-3	-1	**5**	**50**	**221**	**265**	**563**	**1,202**
Below Normal (6%)	-842	-1,278	-438	**16**	**35**	**20**	**73**	**263**	**104**	**782**	**1,362**	**1,336**
Dry (13%)	**365**	**80**	**111**	**100**	**33**	**53**	**60**	**130**	**223**	**308**	**525**	**585**
Critical (25%)	-997	-610	**457**	-123	-42	**150**	**233**	**504**	**604**	**747**	**523**	-369

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-33-5. Sacramento River at Emmaton, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,462	3,217	2,195	1,281	947	429	399	1,058	1,921	1,906	2,367	3,248
20%	2,966	2,928	1,950	872	616	295	314	787	1,328	1,275	1,961	3,130
30%	2,828	2,711	1,919	794	321	263	281	516	787	1,205	1,521	2,583
40%	2,685	2,585	1,806	576	285	230	228	327	568	938	1,172	2,358
50%	2,477	2,560	1,023	472	236	206	208	268	545	890	1,057	2,179
60%	2,022	2,463	830	281	199	192	202	231	388	589	1,003	1,986
70%	1,607	1,448	789	249	192	189	197	209	311	430	974	1,791
80%	1,444	741	204	198	186	185	195	208	247	359	902	1,595
90%	336	389	182	194	184	182	186	188	205	357	873	836
Long Term												
Full Simulation Period[a]	2,182	2,096	1,250	613	405	271	275	477	816	960	1,347	2,134
Water Year Types[b]												
Wet (31%)	1,414	1,125	337	245	184	183	190	200	265	351	758	1,026
Above Normal (25%)	3,219	2,485	1,408	222	194	188	195	202	234	358	986	1,594
Below Normal (6%)	1,624	2,548	2,161	787	242	193	206	209	319	589	957	2,358
Dry (13%)	2,097	2,443	1,385	643	422	219	230	335	592	966	1,122	2,123
Critical (25%)	2,560	2,349	1,626	1,004	685	431	426	976	1,768	1,757	2,222	3,199

Alternative 4 H1 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,884	3,699	2,540	785	887	518	613	1,772	2,758	2,785	2,995	3,476
20%	2,318	2,218	1,819	755	425	435	517	1,010	1,420	2,640	2,532	3,366
30%	1,937	2,081	1,679	567	389	376	397	524	1,168	1,724	2,313	3,180
40%	1,691	1,838	1,541	508	285	304	338	480	881	1,646	2,126	3,048
50%	1,612	1,720	1,233	431	279	248	252	444	715	1,197	1,670	2,864
60%	1,440	1,557	1,094	291	214	215	222	299	663	656	1,571	2,735
70%	1,362	1,348	873	252	196	192	213	275	485	554	1,522	2,515
80%	1,147	1,193	233	197	189	188	202	235	329	490	1,474	2,310
90%	990	648	183	191	183	183	191	201	290	425	1,278	1,432
Long Term												
Full Simulation Period[a]	1,758	1,890	1,307	548	417	330	366	674	1,129	1,392	1,969	2,675
Water Year Types[b]												
Wet (31%)	1,181	1,006	343	240	185	185	198	270	414	482	1,515	2,521
Above Normal (25%)	2,201	2,704	1,399	204	194	189	208	226	373	490	1,367	2,722
Below Normal (6%)	1,035	1,367	1,819	774	277	215	231	290	329	1,265	2,299	3,572
Dry (13%)	2,104	2,251	1,416	614	488	281	294	445	823	1,266	1,598	2,279
Critical (25%)	1,909	2,089	1,851	833	663	566	649	1,437	2,409	2,606	2,804	2,916

Alternative 4 H1 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-578	**482**	**345**	-496	-61	**90**	**214**	**714**	**837**	**879**	**628**	**228**
20%	-647	-709	-131	-118	-191	**139**	**203**	**223**	**92**	**1,365**	**571**	**236**
30%	-891	-630	-240	-227	**68**	**113**	**117**	**8**	**382**	**520**	**792**	**598**
40%	-994	-747	-265	-68	0	**73**	**109**	**153**	**312**	**709**	**953**	**689**
50%	-865	-839	**210**	-42	**44**	**42**	**43**	**176**	**170**	**307**	**613**	**685**
60%	-582	-906	**264**	**10**	**14**	**22**	**20**	**69**	**275**	**66**	**567**	**749**
70%	-246	-100	**84**	**3**	**4**	**3**	**16**	**66**	**174**	**124**	**547**	**724**
80%	-297	**452**	**29**	0	**3**	**3**	**7**	**27**	**82**	**132**	**572**	**715**
90%	**654**	**259**	**1**	-3	-1	**2**	**5**	**13**	**85**	**68**	**405**	**596**
Long Term												
Full Simulation Period[a]	-424	-206	**57**	-65	**12**	**60**	**91**	**197**	**314**	**432**	**622**	**541**
Water Year Types[b]												
Wet (31%)	-233	-120	**6**	-5	**1**	**2**	**9**	**70**	**150**	**131**	**757**	**1,495**
Above Normal (25%)	-1,017	**219**	-9	-17	0	**1**	**13**	**24**	**139**	**132**	**380**	**1,128**
Below Normal (6%)	-588	-1,181	-342	-13	**35**	**21**	**25**	**80**	**10**	**675**	**1,341**	**1,214**
Dry (13%)	**7**	-192	**31**	-29	**67**	**62**	**64**	**110**	**231**	**300**	**476**	**155**
Critical (25%)	-651	-260	**224**	-171	-22	**135**	**222**	**461**	**641**	**848**	**582**	-283

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-33-6. Sacramento River at Emmaton, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,462	3,217	2,195	1,281	947	429	399	1,058	1,921	1,906	2,367	3,248
20%	2,966	2,928	1,950	872	616	295	314	787	1,328	1,275	1,961	3,130
30%	2,828	2,711	1,919	794	321	263	281	516	787	1,205	1,521	2,583
40%	2,685	2,585	1,806	576	285	230	228	327	568	938	1,172	2,358
50%	2,477	2,560	1,023	472	236	206	208	268	545	890	1,057	2,179
60%	2,022	2,463	830	281	199	192	202	231	388	589	1,003	1,986
70%	1,607	1,448	789	249	192	189	197	209	311	430	974	1,791
80%	1,444	741	204	198	186	185	195	208	247	359	902	1,595
90%	336	389	182	194	184	182	186	188	205	357	873	836
Long Term												
Full Simulation Period[a]	2,182	2,096	1,250	613	405	271	275	477	816	960	1,347	2,134
Water Year Types[b]												
Wet (31%)	1,414	1,125	337	245	184	183	190	200	265	351	758	1,026
Above Normal (25%)	3,219	2,485	1,408	222	194	188	195	202	234	358	986	1,594
Below Normal (6%)	1,624	2,548	2,161	787	242	193	206	209	319	589	957	2,358
Dry (13%)	2,097	2,443	1,385	643	422	219	230	335	592	966	1,122	2,123
Critical (25%)	2,560	2,349	1,626	1,004	685	431	426	976	1,768	1,757	2,222	3,199

Alternative 4 H2 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,686	3,578	2,575	976	863	518	569	1,749	2,744	2,718	2,917	3,513
20%	2,540	2,626	2,330	794	472	453	521	962	1,487	2,381	2,590	3,365
30%	1,920	2,261	2,037	664	397	337	402	541	1,195	1,687	2,315	3,123
40%	1,844	1,889	1,729	636	308	308	338	490	969	1,492	2,051	3,024
50%	1,746	1,649	1,441	486	274	247	250	383	796	1,387	1,896	2,749
60%	1,404	1,451	1,036	280	213	208	214	273	525	747	1,638	2,417
70%	1,262	1,224	851	243	197	192	207	244	415	695	1,538	2,408
80%	1,000	1,034	224	197	189	188	186	212	341	657	1,373	2,384
90%	872	630	182	190	184	183	183	191	292	615	1,293	2,148
Long Term												
Full Simulation Period[a]	1,732	1,897	1,435	526	404	323	357	652	1,135	1,478	2,002	2,718
Water Year Types[b]												
Wet (31%)	1,213	985	348	245	185	185	189	216	359	542	1,545	2,286
Above Normal (25%)	2,238	2,740	1,285	204	195	189	199	207	348	703	1,506	2,775
Below Normal (6%)	2,566	2,626	1,951	659	261	208	229	270	341	1,302	2,326	3,566
Dry (13%)	1,906	2,185	1,610	722	519	279	293	461	885	1,399	1,690	2,866
Critical (25%)	1,638	1,913	2,122	695	599	544	631	1,409	2,429	2,636	2,750	2,752

Alternative 4 H2 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-776	**361**	**380**	-305	-84	**89**	**170**	**691**	**824**	**812**	**550**	**266**
20%	-426	-302	**380**	-78	-143	**158**	**208**	**175**	**160**	**1,106**	**629**	**235**
30%	-908	-450	**118**	-130	**76**	**74**	**121**	**25**	**409**	**482**	**794**	**540**
40%	-841	-696	-78	**59**	**22**	**78**	**110**	**163**	**400**	**554**	**879**	**665**
50%	-731	-910	**418**	**14**	**39**	**42**	**42**	**116**	**251**	**497**	**839**	**570**
60%	-618	-1,012	**206**	-2	**14**	**16**	**12**	**42**	**137**	**158**	**635**	**431**
70%	-346	-224	**62**	-6	**5**	**3**	**10**	**34**	**104**	**266**	**564**	**617**
80%	-445	**294**	**20**	-1	**3**	**3**	-8	**5**	**93**	**298**	**470**	**789**
90%	**535**	**241**	**0**	-4	0	**2**	-3	**3**	**88**	**257**	**420**	**1,312**
Long Term												
Full Simulation Period[a]	-450	-199	**185**	-87	-1	**52**	**82**	**175**	**319**	**518**	**654**	**584**
Water Year Types[b]												
Wet (31%)	-201	-140	**12**	0	**2**	**2**	-1	**17**	**94**	**191**	**787**	**1,260**
Above Normal (25%)	-981	**256**	-123	-18	**1**	**1**	**4**	**5**	**114**	**345**	**519**	**1,181**
Below Normal (6%)	**942**	**77**	-210	-128	**19**	**15**	**23**	**61**	**22**	**713**	**1,369**	**1,208**
Dry (13%)	-192	-258	**224**	**80**	**97**	**60**	**63**	**126**	**293**	**433**	**568**	**743**
Critical (25%)	-922	-436	**495**	-309	-87	**114**	**205**	**433**	**661**	**879**	**528**	-447

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-33-7. Sacramento River at Emmaton, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,462	3,217	2,195	1,281	947	429	399	1,058	1,921	1,906	2,367	3,248
20%	2,966	2,928	1,950	872	616	295	314	787	1,328	1,275	1,961	3,130
30%	2,828	2,711	1,919	794	321	263	281	516	787	1,205	1,521	2,583
40%	2,685	2,585	1,806	576	285	230	228	327	568	938	1,172	2,358
50%	2,477	2,560	1,023	472	236	206	208	268	545	890	1,057	2,179
60%	2,022	2,463	830	281	199	192	202	231	388	589	1,003	1,986
70%	1,607	1,448	789	249	192	189	197	209	311	430	974	1,791
80%	1,444	741	204	198	186	185	195	208	247	359	902	1,595
90%	336	389	182	194	184	182	186	188	205	357	873	836
Long Term												
Full Simulation Period[a]	2,182	2,096	1,250	613	405	271	275	477	816	960	1,347	2,134
Water Year Types[b]												
Wet (31%)	1,414	1,125	337	245	184	183	190	200	265	351	758	1,026
Above Normal (25%)	3,219	2,485	1,408	222	194	188	195	202	234	358	986	1,594
Below Normal (6%)	1,624	2,548	2,161	787	242	193	206	209	319	589	957	2,358
Dry (13%)	2,097	2,443	1,385	643	422	219	230	335	592	966	1,122	2,123
Critical (25%)	2,560	2,349	1,626	1,004	685	431	426	976	1,768	1,757	2,222	3,199

Alternative 4 H3 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,859	3,548	2,039	769	914	527	603	1,804	2,772	2,809	2,959	3,427
20%	2,553	2,535	1,465	695	660	460	532	1,006	1,477	2,717	2,736	3,245
30%	1,858	2,038	1,191	619	387	380	421	485	1,206	1,910	2,445	2,953
40%	1,508	1,793	1,026	502	282	311	333	475	774	1,602	2,257	2,805
50%	1,148	1,141	974	423	270	242	253	443	716	1,248	1,658	2,171
60%	648	680	838	297	206	211	222	302	663	637	1,582	1,533
70%	427	572	648	250	196	192	213	275	490	552	1,513	738
80%	321	390	242	197	189	188	201	232	351	495	1,435	560
90%	307	260	183	191	183	183	191	201	289	424	1,287	460
Long Term												
Full Simulation Period[a]	1,369	1,564	1,087	490	413	339	370	671	1,135	1,415	2,014	1,977
Water Year Types[b]												
Wet (31%)	1,040	1,007	345	241	185	185	198	270	418	474	1,495	474
Above Normal (25%)	2,118	2,630	1,251	204	194	189	208	225	368	493	1,367	738
Below Normal (6%)	648	680	1,280	695	261	211	229	288	351	1,324	2,333	3,570
Dry (13%)	929	1,335	845	578	483	279	298	427	800	1,294	1,716	2,483
Critical (25%)	1,828	1,944	1,771	694	658	594	657	1,443	2,440	2,653	2,863	2,951

Alternative 4 H3 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-603	**331**	-156	-512	-33	**98**	**204**	**746**	**852**	**902**	**592**	**179**
20%	-413	-393	-485	-177	**44**	**165**	**218**	**219**	**150**	**1,442**	**775**	**115**
30%	-970	-672	-728	-175	**66**	**117**	**140**	-31	**420**	**705**	**924**	**370**
40%	-1,177	-792	-780	-74	-3	**81**	**104**	**149**	**206**	**664**	**1,085**	**447**
50%	-1,329	-1,418	-50	-49	**34**	**36**	**45**	**176**	**171**	**359**	**601**	-8
60%	-1,374	-1,783	**8**	**15**	**7**	**19**	**19**	**71**	**274**	**47**	**579**	-453
70%	-1,180	-876	-141	**1**	**4**	**3**	**16**	**66**	**179**	**122**	**539**	-1,053
80%	-1,123	-351	**38**	0	**3**	**3**	**7**	**24**	**103**	**136**	**532**	-1,035
90%	-29	-129	**1**	-3	-1	**2**	**5**	**13**	**85**	**66**	**414**	-376
Long Term												
Full Simulation Period[a]	-813	-532	-163	-122	**8**	**68**	**94**	**194**	**319**	**456**	**667**	-157
Water Year Types[b]												
Wet (31%)	-374	-118	**9**	-4	**1**	**2**	**8**	**71**	**154**	**123**	**737**	-552
Above Normal (25%)	-1,101	**145**	-158	-17	0	**0**	**13**	**22**	**134**	**135**	**381**	-856
Below Normal (6%)	-976	-1,868	-881	-92	**19**	**18**	**23**	**79**	**32**	**734**	**1,375**	**1,212**
Dry (13%)	-1,169	-1,108	-541	-64	**62**	**61**	**68**	**92**	**208**	**328**	**595**	**359**
Critical (25%)	-732	-405	**145**	-311	-28	**163**	**231**	**467**	**672**	**896**	**642**	-248

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-33-8. Sacramento River at Emmaton, Monthly EC

Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,462	3,217	2,195	1,281	947	429	399	1,058	1,921	1,906	2,367	3,248
20%	2,966	2,928	1,950	872	616	295	314	787	1,328	1,275	1,961	3,130
30%	2,828	2,711	1,919	794	321	263	281	516	787	1,205	1,521	2,583
40%	2,685	2,585	1,806	576	285	230	228	327	568	938	1,172	2,358
50%	2,477	2,560	1,023	472	236	206	208	268	545	890	1,057	2,179
60%	2,022	2,463	830	281	199	192	202	231	388	589	1,003	1,986
70%	1,607	1,448	789	249	192	189	197	209	311	430	974	1,791
80%	1,444	741	204	198	186	185	195	208	247	359	902	1,595
90%	336	389	182	194	184	182	186	188	205	357	873	836
Long Term												
Full Simulation Period[a]	2,182	2,096	1,250	613	405	271	275	477	816	960	1,347	2,134
Water Year Types[b]												
Wet (31%)	1,414	1,125	337	245	184	183	190	200	265	351	758	1,026
Above Normal (25%)	3,219	2,485	1,408	222	194	188	195	202	234	358	986	1,594
Below Normal (6%)	1,624	2,548	2,161	787	242	193	206	209	319	589	957	2,358
Dry (13%)	2,097	2,443	1,385	643	422	219	230	335	592	966	1,122	2,123
Critical (25%)	2,560	2,349	1,626	1,004	685	431	426	976	1,768	1,757	2,222	3,199

Alternative 4 H4 (LLT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,005	3,285	2,516	1,126	1,042	541	583	1,736	2,722	2,740	2,796	3,307
20%	2,105	2,375	1,870	782	665	449	516	963	1,489	2,307	2,444	2,948
30%	1,574	1,967	1,353	712	401	373	390	540	1,207	1,827	2,243	2,688
40%	1,241	1,401	1,058	659	291	305	343	489	959	1,700	2,040	2,441
50%	976	920	956	482	268	242	252	386	812	1,399	1,848	2,369
60%	621	685	836	298	206	211	213	276	534	748	1,643	2,275
70%	430	584	644	251	196	192	206	243	416	688	1,520	752
80%	317	386	241	197	189	188	186	212	323	641	1,374	556
90%	304	261	181	190	184	183	182	191	285	613	1,300	453
Long Term												
Full Simulation Period[a]	1,297	1,464	1,168	611	447	332	360	651	1,135	1,475	1,962	1,961
Water Year Types[b]												
Wet (31%)	856	883	344	245	185	185	189	219	361	537	1,517	473
Above Normal (25%)	2,181	2,652	1,287	204	194	189	199	207	348	703	1,508	752
Below Normal (6%)	621	685	1,153	659	260	211	228	268	310	1,201	2,213	3,597
Dry (13%)	916	1,327	952	602	499	274	293	461	893	1,518	1,734	2,859
Critical (25%)	1,736	1,720	1,954	1,064	755	577	642	1,401	2,426	2,555	2,631	2,591

Alternative 4 H4 (LLT) minus Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-457	**68**	**321**	-154	**95**	**112**	**184**	**678**	**801**	**834**	**429**	**60**
20%	-861	-552	-80	-90	**49**	**154**	**203**	**176**	**161**	**1,031**	**483**	-181
30%	-1,255	-744	-566	-82	**79**	**110**	**110**	**24**	**420**	**622**	**722**	**105**
40%	-1,445	-1,184	-748	**83**	**5**	**75**	**115**	**162**	**391**	**762**	**867**	**83**
50%	-1,501	-1,639	-67	**9**	**32**	**36**	**44**	**118**	**267**	**509**	**791**	**190**
60%	-1,401	-1,778	**6**	**17**	**7**	**19**	**11**	**45**	**145**	**159**	**640**	**289**
70%	-1,178	-864	-145	**2**	**4**	**3**	**9**	**33**	**105**	**259**	**546**	-1,039
80%	-1,128	-355	**37**	-1	**3**	**3**	-8	**5**	**76**	**282**	**471**	-1,039
90%	-32	-128	0	-4	0	**2**	-3	**3**	**81**	**256**	**428**	-383
Long Term												
Full Simulation Period[a]	-885	-632	-82	-1	**42**	**61**	**85**	**173**	**319**	**515**	**615**	-172
Water Year Types[b]												
Wet (31%)	-558	-243	**8**	**1**	**2**	**2**	-1	**20**	**96**	**186**	**760**	-553
Above Normal (25%)	-1,038	**167**	-122	-18	0	**1**	**4**	**5**	**114**	**345**	**522**	-841
Below Normal (6%)	-1,003	-1,864	-1,008	-128	**18**	**18**	**22**	**59**	-9	**611**	**1,255**	**1,239**
Dry (13%)	-1,182	-1,116	-434	-40	**77**	**55**	**63**	**126**	**302**	**552**	**612**	**735**
Critical (25%)	-823	-629	**328**	**60**	**69**	**147**	**216**	**425**	**658**	**798**	**410**	-607

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-33-9. Sacramento River at Emmaton, Monthly EC

Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,462	3,217	2,195	1,281	947	429	399	1,058	1,921	1,906	2,367	3,248
20%	2,966	2,928	1,950	872	616	295	314	787	1,328	1,275	1,961	3,130
30%	2,828	2,711	1,919	794	321	263	281	516	787	1,205	1,521	2,583
40%	2,685	2,585	1,806	576	285	230	228	327	568	938	1,172	2,358
50%	2,477	2,560	1,023	472	236	206	208	268	545	890	1,057	2,179
60%	2,022	2,463	830	281	199	192	202	231	388	589	1,003	1,986
70%	1,607	1,448	789	249	192	189	197	209	311	430	974	1,791
80%	1,444	741	204	198	186	185	195	208	247	359	902	1,595
90%	336	389	182	194	184	182	186	188	205	357	873	836
Long Term												
Full Simulation Period[a]	2,182	2,096	1,250	613	405	271	275	477	816	960	1,347	2,134
Water Year Types[b]												
Wet (31%)	1,414	1,125	337	245	184	183	190	200	265	351	758	1,026
Above Normal (25%)	3,219	2,485	1,408	222	194	188	195	202	234	358	986	1,594
Below Normal (6%)	1,624	2,548	2,161	787	242	193	206	209	319	589	957	2,358
Dry (13%)	2,097	2,443	1,385	643	422	219	230	335	592	966	1,122	2,123
Critical (25%)	2,560	2,349	1,626	1,004	685	431	426	976	1,768	1,757	2,222	3,199

Alternative 5 (LLT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,329	3,221	2,547	1,150	995	575	553	1,659	2,642	2,799	3,116	3,420
20%	2,889	2,084	2,368	1,001	629	443	436	1,008	1,483	2,019	2,782	3,309
30%	2,283	1,921	1,360	742	431	408	387	539	1,221	1,761	2,280	3,036
40%	1,524	1,858	1,069	638	381	294	331	505	897	1,218	1,897	2,898
50%	1,348	1,539	985	617	309	248	249	463	788	1,004	1,559	2,509
60%	761	755	962	611	210	204	214	309	649	724	1,458	2,202
70%	515	567	693	254	190	188	205	280	523	586	1,394	695
80%	313	406	346	194	185	184	199	237	345	520	1,319	535
90%	295	249	182	189	183	182	189	200	287	474	1,210	409
Long Term												
Full Simulation Period[a]	1,549	1,514	1,235	614	431	339	349	667	1,143	1,310	1,935	2,064
Water Year Types[b]												
Wet (31%)	1,533	1,110	428	295	183	183	196	273	415	501	1,408	433
Above Normal (25%)	2,725	2,914	1,308	201	190	186	198	226	395	528	1,346	695
Below Normal (6%)	761	755	989	680	276	204	224	284	345	951	1,912	3,461
Dry (13%)	1,158	1,241	1,198	872	505	292	296	465	873	1,305	1,655	2,853
Critical (25%)	1,563	1,646	1,930	815	697	588	600	1,395	2,399	2,344	2,822	3,007

Alternative 5 (LLT) minus Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-133	**4**	**352**	-131	**47**	**146**	**154**	**601**	**721**	**893**	**749**	**172**
20%	-77	-843	**417**	**128**	**14**	**147**	**122**	**221**	**155**	**743**	**821**	**179**
30%	-545	-789	-559	-52	**109**	**145**	**106**	**23**	**434**	**556**	**759**	**454**
40%	-1,162	-727	-737	**62**	**96**	**64**	**102**	**179**	**329**	**281**	**725**	**539**
50%	-1,129	-1,021	-39	**144**	**73**	**42**	**40**	**195**	**243**	**114**	**502**	**330**
60%	-1,261	-1,708	**132**	**330**	**11**	**12**	**11**	**79**	**261**	**134**	**454**	**216**
70%	-1,093	-882	-96	**5**	-1	-1	**9**	**71**	**212**	**156**	**420**	-1,096
80%	-1,131	-335	**142**	-4	-1	-1	**5**	**29**	**98**	**161**	**416**	-1,060
90%	-41	-140	**0**	-5	-1	**0**	**3**	**12**	**82**	**117**	**337**	-427
Long Term												
Full Simulation Period[a]	-632	-582	-15	**2**	**26**	**68**	**74**	**189**	**327**	**350**	**588**	-69
Water Year Types[b]												
Wet (31%)	**119**	-16	**92**	**51**	-1	0	**6**	**74**	**151**	**151**	**651**	-593
Above Normal (25%)	-494	**430**	-100	-20	-4	-2	**4**	**24**	**161**	**171**	**360**	-898
Below Normal (6%)	-863	-1,794	-1,172	-107	**34**	**10**	**18**	**75**	**26**	**362**	**955**	**1,102**
Dry (13%)	-939	-1,202	-187	**229**	**83**	**74**	**66**	**129**	**282**	**339**	**533**	**729**
Critical (25%)	-997	-703	**303**	-189	**12**	**157**	**174**	**419**	**631**	**587**	**600**	-192

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-33-10. Sacramento River at Emmaton, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,462	3,217	2,195	1,281	947	429	399	1,058	1,921	1,906	2,367	3,248
20%	2,966	2,928	1,950	872	616	295	314	787	1,328	1,275	1,961	3,130
30%	2,828	2,711	1,919	794	321	263	281	516	787	1,205	1,521	2,583
40%	2,685	2,585	1,806	576	285	230	228	327	568	938	1,172	2,358
50%	2,477	2,560	1,023	472	236	206	208	268	545	890	1,057	2,179
60%	2,022	2,463	830	281	199	192	202	231	388	589	1,003	1,986
70%	1,607	1,448	789	249	192	189	197	209	311	430	974	1,791
80%	1,444	741	204	198	186	185	195	208	247	359	902	1,595
90%	336	389	182	194	184	182	186	188	205	357	873	836
Long Term												
Full Simulation Period[a]	2,182	2,096	1,250	613	405	271	275	477	816	960	1,347	2,134
Water Year Types[b]												
Wet (31%)	1,414	1,125	337	245	184	183	190	200	265	351	758	1,026
Above Normal (25%)	3,219	2,485	1,408	222	194	188	195	202	234	358	986	1,594
Below Normal (6%)	1,624	2,548	2,161	787	242	193	206	209	319	589	957	2,358
Dry (13%)	2,097	2,443	1,385	643	422	219	230	335	592	966	1,122	2,123
Critical (25%)	2,560	2,349	1,626	1,004	685	431	426	976	1,768	1,757	2,222	3,199

Alternative 6A,6B,6C (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,999	1,924	924	519	602	503	546	1,382	2,178	3,114	2,795	2,226
20%	1,359	1,123	846	348	342	347	408	962	1,477	2,682	2,415	2,049
30%	1,042	875	656	337	266	267	351	588	1,198	2,369	2,213	1,711
40%	949	801	493	298	248	253	292	534	986	2,046	1,952	1,492
50%	879	671	389	248	226	228	257	436	839	1,763	1,595	1,302
60%	567	541	331	233	209	220	218	269	586	1,212	1,285	1,140
70%	426	441	288	217	201	194	214	266	476	759	977	672
80%	289	320	205	200	191	188	202	230	317	641	864	400
90%	284	247	182	191	185	184	191	201	277	559	826	328
Long Term												
Full Simulation Period[a]	975	860	576	378	334	300	345	615	1,045	1,717	1,674	1,323
Water Year Types[b]												
Wet (31%)	606	436	209	203	186	186	198	247	398	518	765	340
Above Normal (25%)	1,908	1,605	569	201	200	191	209	223	346	720	906	672
Below Normal (6%)	553	541	505	298	260	220	229	269	317	1,212	1,285	1,140
Dry (13%)	729	669	473	304	302	242	277	495	942	1,938	1,904	1,506
Critical (25%)	1,178	1,117	971	663	546	497	593	1,231	2,070	3,000	2,603	2,261

Alternative 6A,6B,6C (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,463	-1,293	-1,271	-762	-345	**74**	**147**	**324**	**257**	**1,207**	**428**	-1,022
20%	-1,606	-1,805	-1,104	-525	-274	**52**	**94**	**176**	**150**	**1,407**	**454**	-1,080
30%	-1,787	-1,835	-1,263	-457	-55	**4**	**71**	**73**	**411**	**1,164**	**692**	-872
40%	-1,736	-1,784	-1,313	-279	-38	**22**	**63**	**207**	**417**	**1,108**	**780**	-866
50%	-1,598	-1,888	-634	-224	-9	**22**	**48**	**168**	**294**	**873**	**538**	-877
60%	-1,455	-1,922	-499	-49	**10**	**28**	**16**	**38**	**198**	**622**	**282**	-846
70%	-1,181	-1,007	-501	-32	**9**	**5**	**18**	**57**	**165**	**329**	**3**	-1,119
80%	-1,155	-420	**1**	**2**	**5**	**3**	**7**	**22**	**70**	**282**	-39	-1,195
90%	-53	-142	**0**	-3	**1**	**2**	**5**	**13**	**73**	**202**	-46	-508
Long Term												
Full Simulation Period[a]	-1,207	-1,236	-673	-235	-71	**29**	**69**	**138**	**229**	**757**	**327**	-810
Water Year Types[b]												
Wet (31%)	-808	-689	-128	-42	**2**	**2**	**8**	**48**	**133**	**167**	**7**	-686
Above Normal (25%)	-1,310	-880	-839	-21	**5**	**2**	**14**	**21**	**112**	**362**	-81	-922
Below Normal (6%)	-1,071	-2,007	-1,656	-490	**17**	**27**	**23**	**59**	-2	**622**	**328**	-1,218
Dry (13%)	-1,369	-1,774	-913	-339	-120	**24**	**47**	**159**	**350**	**972**	**782**	-617
Critical (25%)	-1,382	-1,232	-656	-341	-139	**66**	**167**	**255**	**302**	**1,243**	**381**	-938

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-33-11. Sacramento River at Emmaton, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,462	3,217	2,195	1,281	947	429	399	1,058	1,921	1,906	2,367	3,248
20%	2,966	2,928	1,950	872	616	295	314	787	1,328	1,275	1,961	3,130
30%	2,828	2,711	1,919	794	321	263	281	516	787	1,205	1,521	2,583
40%	2,685	2,585	1,806	576	285	230	228	327	568	938	1,172	2,358
50%	2,477	2,560	1,023	472	236	206	208	268	545	890	1,057	2,179
60%	2,022	2,463	830	281	199	192	202	231	388	589	1,003	1,986
70%	1,607	1,448	789	249	192	189	197	209	311	430	974	1,791
80%	1,444	741	204	198	186	185	195	208	247	359	902	1,595
90%	336	389	182	194	184	182	186	188	205	357	873	836
Long Term												
Full Simulation Period[a]	2,182	2,096	1,250	613	405	271	275	477	816	960	1,347	2,134
Water Year Types[b]												
Wet (31%)	1,414	1,125	337	245	184	183	190	200	265	351	758	1,026
Above Normal (25%)	3,219	2,485	1,408	222	194	188	195	202	234	358	986	1,594
Below Normal (6%)	1,624	2,548	2,161	787	242	193	206	209	319	589	957	2,358
Dry (13%)	2,097	2,443	1,385	643	422	219	230	335	592	966	1,122	2,123
Critical (25%)	2,560	2,349	1,626	1,004	685	431	426	976	1,768	1,757	2,222	3,199

Alternative 7 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,817	1,814	1,016	517	590	457	507	1,077	1,241	2,367	2,469	3,270
20%	2,232	1,150	874	346	336	345	398	902	1,052	1,984	2,202	3,129
30%	2,086	1,115	564	331	264	262	339	581	924	1,715	2,079	3,030
40%	2,030	981	463	301	246	251	289	538	873	1,359	1,612	2,937
50%	1,604	754	388	254	226	222	248	440	672	1,067	1,457	2,514
60%	604	551	346	239	204	210	218	273	510	722	1,450	2,391
70%	391	412	295	216	197	191	213	267	366	598	1,397	746
80%	311	335	207	196	188	188	202	231	303	529	1,365	569
90%	287	250	181	189	183	184	191	200	268	518	1,291	451
Long Term												
Full Simulation Period[a]	1,497	922	589	372	327	290	335	527	735	1,254	1,734	2,062
Water Year Types[b]												
Wet (31%)	1,026	469	213	203	185	185	198	247	339	494	1,467	476
Above Normal (25%)	2,932	1,485	487	197	195	189	208	222	291	532	1,384	746
Below Normal (6%)	604	595	506	301	253	210	224	266	333	964	1,450	2,391
Dry (13%)	852	704	472	304	300	237	271	493	826	1,232	1,481	3,073
Critical (25%)	1,996	1,297	1,040	646	531	474	570	953	1,237	2,226	2,348	2,982

Alternative 7 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-645	-1,403	-1,179	-764	-357	**29**	**108**	**19**	-679	**460**	**102**	**23**
20%	-734	-1,777	-1,076	-526	-280	**50**	**84**	**115**	-276	**709**	**241**	-1
30%	-742	-1,596	-1,355	-463	-57	-1	**58**	**65**	**138**	**510**	**558**	**448**
40%	-656	-1,604	-1,343	-275	-40	**21**	**61**	**212**	**305**	**421**	**440**	**579**
50%	-874	-1,806	-636	-219	-10	**16**	**40**	**172**	**127**	**178**	**400**	**335**
60%	-1,418	-1,912	-484	-43	**5**	**18**	**16**	**42**	**121**	**133**	**447**	**405**
70%	-1,216	-1,036	-494	-33	**5**	**2**	**16**	**58**	**55**	**168**	**422**	-1,046
80%	-1,133	-406	**3**	-2	**2**	**3**	**7**	**23**	**56**	**171**	**462**	-1,026
90%	-49	-139	-1	-5	-1	**2**	**6**	**12**	**64**	**161**	**419**	-385
Long Term												
Full Simulation Period[a]	-684	-1,175	-661	-240	-78	**20**	**60**	**50**	-81	**294**	**387**	-72
Water Year Types[b]												
Wet (31%)	-388	-657	-124	-42	**1**	**1**	**8**	**48**	**74**	**143**	**710**	-550
Above Normal (25%)	-287	-999	-922	-24	**0**	**0**	**13**	**20**	**57**	**174**	**397**	-848
Below Normal (6%)	-1,020	-1,953	-1,655	-486	**10**	**17**	**18**	**57**	**13**	**374**	**493**	**33**
Dry (13%)	-1,245	-1,739	-913	-339	-122	**19**	**41**	**158**	**235**	**266**	**359**	**950**
Critical (25%)	-564	-1,052	-587	-358	-154	**43**	**144**	-23	-531	**468**	**126**	-217

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-33-12. Sacramento River at Emmaton, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,462	3,217	2,195	1,281	947	429	399	1,058	1,921	1,906	2,367	3,248
20%	2,966	2,928	1,950	872	616	295	314	787	1,328	1,275	1,961	3,130
30%	2,828	2,711	1,919	794	321	263	281	516	787	1,205	1,521	2,583
40%	2,685	2,585	1,806	576	285	230	228	327	568	938	1,172	2,358
50%	2,477	2,560	1,023	472	236	206	208	268	545	890	1,057	2,179
60%	2,022	2,463	830	281	199	192	202	231	388	589	1,003	1,986
70%	1,607	1,448	789	249	192	189	197	209	311	430	974	1,791
80%	1,444	741	204	198	186	185	195	208	247	359	902	1,595
90%	336	389	182	194	184	182	186	188	205	357	873	836
Long Term												
Full Simulation Period[a]	2,182	2,096	1,250	613	405	271	275	477	816	960	1,347	2,134
Water Year Types[b]												
Wet (31%)	1,414	1,125	337	245	184	183	190	200	265	351	758	1,026
Above Normal (25%)	3,219	2,485	1,408	222	194	188	195	202	234	358	986	1,594
Below Normal (6%)	1,624	2,548	2,161	787	242	193	206	209	319	589	957	2,358
Dry (13%)	2,097	2,443	1,385	643	422	219	230	335	592	966	1,122	2,123
Critical (25%)	2,560	2,349	1,626	1,004	685	431	426	976	1,768	1,757	2,222	3,199

Alternative 8 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,303	2,182	1,021	529	533	354	366	750	1,119	2,338	2,486	3,532
20%	3,112	1,684	975	338	327	251	328	583	858	1,987	2,382	3,235
30%	2,298	1,103	629	315	240	239	250	515	825	1,845	2,268	3,185
40%	2,034	980	479	285	229	218	234	367	768	1,789	2,086	3,064
50%	1,959	816	394	237	216	205	218	309	655	1,484	1,897	2,948
60%	556	582	343	224	199	204	208	241	462	1,258	1,867	2,804
70%	407	484	302	214	195	191	206	225	358	694	1,562	745
80%	315	333	205	196	190	188	196	218	295	608	1,448	512
90%	293	251	181	189	183	183	188	195	270	579	1,427	451
Long Term												
Full Simulation Period[a]	1,637	1,030	615	373	316	265	293	423	691	1,396	1,964	2,216
Water Year Types[b]												
Wet (31%)	1,205	524	214	199	185	185	194	219	323	542	1,466	461
Above Normal (25%)	2,573	1,506	553	197	193	188	201	213	289	631	1,449	745
Below Normal (6%)	556	582	505	285	235	205	211	218	330	1,258	1,882	3,229
Dry (13%)	1,128	913	509	291	259	214	228	420	815	1,693	2,043	3,391
Critical (25%)	2,231	1,428	1,065	664	532	413	479	713	1,120	2,176	2,522	3,067

Alternative 8 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-159	-1,035	-1,174	-752	-414	-75	-34	-308	-802	**431**	**119**	**284**
20%	**147**	-1,244	-975	-534	-288	-45	**14**	-204	-469	**711**	**422**	**105**
30%	-530	-1,608	-1,290	-479	-81	-23	-31	-1	**38**	**640**	**747**	**602**
40%	-652	-1,605	-1,327	-291	-56	-12	**6**	**40**	**200**	**851**	**914**	**706**
50%	-518	-1,743	-629	-235	-19	-1	**10**	**42**	**110**	**594**	**840**	**769**
60%	-1,466	-1,881	-488	-58	**0**	**12**	**6**	**11**	**74**	**669**	**864**	**818**
70%	-1,201	-964	-487	-35	**3**	**2**	**9**	**16**	**47**	**264**	**587**	-1,046
80%	-1,129	-408	**1**	-2	**4**	**4**	**1**	**10**	**47**	**249**	**546**	-1,083
90%	-44	-138	-1	-5	-1	**2**	**3**	**7**	**65**	**221**	**554**	-385
Long Term												
Full Simulation Period[a]	-545	-1,066	-635	-240	-89	-6	**18**	-54	-125	**436**	**617**	**83**
Water Year Types[b]												
Wet (31%)	-209	-602	-122	-46	**1**	**2**	**4**	**20**	**58**	**191**	**709**	-565
Above Normal (25%)	-646	-978	-855	-25	-1	0	**6**	**11**	**55**	**273**	**462**	-849
Below Normal (6%)	-1,068	-1,966	-1,656	-502	-7	**11**	**5**	**9**	**10**	**669**	**925**	**871**
Dry (13%)	-970	-1,530	-876	-351	-163	-5	-2	**85**	**223**	**727**	**921**	**1,267**
Critical (25%)	-329	-921	-561	-340	-154	-18	**52**	-263	-648	**418**	**301**	-132

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-33-13. Sacramento River at Emmaton, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,462	3,217	2,195	1,281	947	429	399	1,058	1,921	1,906	2,367	3,248
20%	2,966	2,928	1,950	872	616	295	314	787	1,328	1,275	1,961	3,130
30%	2,828	2,711	1,919	794	321	263	281	516	787	1,205	1,521	2,583
40%	2,685	2,585	1,806	576	285	230	228	327	568	938	1,172	2,358
50%	2,477	2,560	1,023	472	236	206	208	268	545	890	1,057	2,179
60%	2,022	2,463	830	281	199	192	202	231	388	589	1,003	1,986
70%	1,607	1,448	789	249	192	189	197	209	311	430	974	1,791
80%	1,444	741	204	198	186	185	195	208	247	359	902	1,595
90%	336	389	182	194	184	182	186	188	205	357	873	836
Long Term												
Full Simulation Period[a]	2,182	2,096	1,250	613	405	271	275	477	816	960	1,347	2,134
Water Year Types[b]												
Wet (31%)	1,414	1,125	337	245	184	183	190	200	265	351	758	1,026
Above Normal (25%)	3,219	2,485	1,408	222	194	188	195	202	234	358	986	1,594
Below Normal (6%)	1,624	2,548	2,161	787	242	193	206	209	319	589	957	2,358
Dry (13%)	2,097	2,443	1,385	643	422	219	230	335	592	966	1,122	2,123
Critical (25%)	2,560	2,349	1,626	1,004	685	431	426	976	1,768	1,757	2,222	3,199

Alternative 9 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,458	4,742	3,510	2,146	1,498	713	623	1,505	2,305	2,462	2,346	3,446
20%	3,807	4,019	3,068	1,201	1,096	526	490	1,045	1,520	2,317	2,122	3,316
30%	3,780	3,633	2,342	928	461	407	387	469	912	1,831	1,790	3,117
40%	3,466	3,382	1,434	856	368	319	333	382	709	1,660	1,678	2,960
50%	2,558	2,321	1,307	719	297	235	276	373	662	1,456	1,609	2,905
60%	782	826	1,124	541	209	197	241	359	620	1,112	1,550	2,782
70%	475	618	912	255	189	187	210	335	380	874	1,501	764
80%	285	376	334	190	184	183	201	254	362	485	1,461	456
90%	279	228	180	188	182	181	186	194	307	420	1,330	376
Long Term												
Full Simulation Period[a]	2,286	2,330	1,717	958	625	381	385	609	954	1,452	1,742	2,185
Water Year Types[b]												
Wet (31%)	1,422	1,348	493	302	182	182	201	305	364	558	1,434	378
Above Normal (25%)	4,202	3,923	2,342	203	189	185	197	231	373	583	1,375	764
Below Normal (6%)	782	826	1,286	790	256	197	253	359	338	1,255	1,682	2,960
Dry (13%)	1,377	1,753	1,578	1,007	575	281	297	375	716	1,572	1,658	3,087
Critical (25%)	3,238	3,242	2,645	1,779	1,267	734	705	1,242	1,972	2,457	2,214	3,322

Alternative 9 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**996**	**1,525**	**1,315**	**865**	**551**	**284**	**224**	**447**	**384**	**555**	-21	**198**
20%	**842**	**1,091**	**1,118**	**329**	**480**	**231**	**176**	**259**	**192**	**1,041**	**161**	**186**
30%	**952**	**922**	**424**	**134**	**140**	**144**	**107**	-47	**126**	**626**	**270**	**534**
40%	**781**	**796**	-372	**279**	**83**	**89**	**105**	**55**	**141**	**722**	**506**	**602**
50%	**81**	-238	**284**	**247**	**61**	**29**	**67**	**106**	**117**	**566**	**552**	**726**
60%	-1,240	-1,637	**294**	**259**	**10**	**4**	**39**	**128**	**232**	**523**	**546**	**796**
70%	-1,133	-831	**123**	**6**	-3	-2	**13**	**126**	**69**	**445**	**526**	-1,027
80%	-1,159	-364	**130**	-8	-2	-2	**7**	**47**	**114**	**127**	**559**	-1,139
90%	-57	-161	-2	-6	-2	-1	**0**	**6**	**103**	**63**	**457**	-461
Long Term												
Full Simulation Period[a]	**104**	**234**	**467**	**345**	**220**	**110**	**110**	**132**	**138**	**492**	**395**	**51**
Water Year Types[b]												
Wet (31%)	**8**	**222**	**156**	**57**	-2	-1	**11**	**105**	**100**	**207**	**676**	-648
Above Normal (25%)	**984**	**1,439**	**934**	-19	-5	-3	**2**	**29**	**139**	**225**	**389**	-829
Below Normal (6%)	-842	-1,723	-875	**2**	**14**	**3**	**46**	**150**	**19**	**666**	**724**	**602**
Dry (13%)	-720	-690	**193**	**364**	**153**	**62**	**67**	**40**	**124**	**606**	**536**	**964**
Critical (25%)	**679**	**893**	**1,018**	**775**	**581**	**303**	**278**	**266**	**204**	**699**	-7	**123**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-33-14. Sacramento River at Emmaton, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,246	3,738	3,029	1,137	1,135	609	518	1,322	2,252	2,010	2,593	3,748
20%	2,527	2,815	2,418	886	571	401	451	795	1,212	1,298	2,019	3,592
30%	2,421	2,699	1,743	795	401	371	344	476	891	1,275	1,992	3,325
40%	2,315	2,568	1,022	758	388	253	313	453	805	1,095	1,425	2,876
50%	2,146	1,681	976	580	321	228	233	383	616	903	1,104	2,806
60%	650	712	904	448	211	199	206	258	531	447	1,034	2,559
70%	480	554	720	264	191	190	201	254	446	394	966	680
80%	286	334	310	196	186	184	195	220	325	362	942	504
90%	280	226	184	192	182	182	186	192	275	304	903	367
Long Term												
Full Simulation Period[a]	1,707	1,772	1,332	679	481	327	332	571	957	1,008	1,514	2,253
Water Year Types[b]												
Wet (31%)	1,275	1,188	371	254	183	183	192	238	359	331	928	386
Above Normal (25%)	2,945	2,779	1,720	223	191	187	196	212	359	338	933	680
Below Normal (6%)	642	712	1,084	758	273	199	216	256	325	920	1,425	2,756
Dry (13%)	974	1,263	1,113	809	506	263	282	407	711	931	1,300	2,919
Critical (25%)	2,356	2,454	2,169	1,081	858	575	562	1,175	1,996	1,897	2,404	3,743

Alternative 1A,1B,1C (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,069	3,249	2,594	1,205	708	562	600	1,803	2,780	2,669	3,121	3,627
20%	2,712	3,059	2,176	939	658	461	522	1,034	1,410	2,541	2,473	3,430
30%	2,372	2,313	1,685	759	490	379	400	575	1,212	1,872	2,315	3,227
40%	2,176	2,075	1,548	650	360	307	309	524	749	1,696	2,236	3,084
50%	1,503	1,987	1,409	621	319	272	289	489	683	1,231	1,794	2,957
60%	1,286	1,417	1,188	495	223	223	238	473	644	730	1,668	2,861
70%	1,080	1,058	1,061	278	200	194	214	296	582	591	1,557	2,661
80%	871	985	393	203	189	188	201	266	424	523	1,519	2,081
90%	542	477	186	196	185	184	189	207	280	486	1,414	1,768
Long Term												
Full Simulation Period[a]	1,754	1,888	1,378	667	427	334	368	708	1,140	1,392	2,023	2,775
Water Year Types[b]												
Wet (31%)	1,217	917	398	306	186	186	202	320	412	491	1,597	2,528
Above Normal (25%)	2,140	2,620	1,523	216	198	191	207	249	456	626	1,593	2,913
Below Normal (6%)	550	1,115	1,618	783	281	223	281	473	424	1,347	2,344	3,617
Dry (13%)	2,416	2,607	1,540	695	470	291	291	462	787	1,309	1,603	2,625
Critical (25%)	1,741	1,951	1,926	1,090	706	568	645	1,447	2,422	2,494	2,809	2,868

Alternative 1A,1B,1C (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-177	-489	-435	**68**	-426	-47	**82**	**481**	**528**	**658**	**528**	-122
20%	**186**	**244**	-242	**52**	**86**	**60**	**71**	**239**	**198**	**1,243**	**454**	-162
30%	-49	-386	-59	-36	**89**	**8**	**56**	**99**	**321**	**596**	**323**	-98
40%	-139	-493	**526**	-108	-28	**53**	-5	**71**	-56	**601**	**810**	**207**
50%	-643	**306**	**434**	**41**	-2	**44**	**56**	**105**	**67**	**328**	**690**	**152**
60%	**636**	**705**	**284**	**47**	**12**	**24**	**32**	**215**	**113**	**283**	**634**	**301**
70%	**600**	**504**	**342**	**14**	**9**	**4**	**13**	**42**	**136**	**197**	**592**	**1,981**
80%	**585**	**651**	**83**	**7**	**3**	**5**	**7**	**46**	**99**	**161**	**577**	**1,577**
90%	**262**	**252**	**2**	**3**	**3**	**2**	**3**	**15**	**5**	**181**	**511**	**1,401**
Long Term												
Full Simulation Period[a]	**48**	**116**	**46**	-12	-54	**8**	**36**	**137**	**183**	**384**	**509**	**522**
Water Year Types[b]												
Wet (31%)	-58	-272	**27**	**52**	**3**	**2**	**10**	**82**	**52**	**160**	**668**	**2,142**
Above Normal (25%)	-805	-159	-196	-8	**7**	**4**	**11**	**37**	**97**	**288**	**660**	**2,234**
Below Normal (6%)	-91	**403**	**534**	**25**	**8**	**24**	**65**	**217**	**99**	**426**	**919**	**860**
Dry (13%)	**1,442**	**1,344**	**427**	-114	-36	**29**	**8**	**55**	**76**	**378**	**303**	-294
Critical (25%)	-615	-503	-243	**9**	-152	-7	**83**	**272**	**426**	**597**	**405**	-875

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-33-15. Sacramento River at Emmaton, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,246	3,738	3,029	1,137	1,135	609	518	1,322	2,252	2,010	2,593	3,748
20%	2,527	2,815	2,418	886	571	401	451	795	1,212	1,298	2,019	3,592
30%	2,421	2,699	1,743	795	401	371	344	476	891	1,275	1,992	3,325
40%	2,315	2,568	1,022	758	388	253	313	453	805	1,095	1,425	2,876
50%	2,146	1,681	976	580	321	228	233	383	616	903	1,104	2,806
60%	650	712	904	448	211	199	206	258	531	447	1,034	2,559
70%	480	554	720	264	191	190	201	254	446	394	966	680
80%	286	334	310	196	186	184	195	220	325	362	942	504
90%	280	226	184	192	182	182	186	192	275	304	903	367
Long Term												
Full Simulation Period[a]	1,707	1,772	1,332	679	481	327	332	571	957	1,008	1,514	2,253
Water Year Types[b]												
Wet (31%)	1,275	1,188	371	254	183	183	192	238	359	331	928	386
Above Normal (25%)	2,945	2,779	1,720	223	191	187	196	212	359	338	933	680
Below Normal (6%)	642	712	1,084	758	273	199	216	256	325	920	1,425	2,756
Dry (13%)	974	1,263	1,113	809	506	263	282	407	711	931	1,300	2,919
Critical (25%)	2,356	2,454	2,169	1,081	858	575	562	1,175	1,996	1,897	2,404	3,743

Alternative 2A,2B,2C (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,902	3,529	2,035	771	861	522	602	1,811	2,737	2,750	2,986	3,543
20%	1,662	2,241	1,584	671	632	452	514	1,006	1,477	2,717	2,584	3,389
30%	1,532	1,784	1,295	631	364	395	420	483	1,204	1,759	2,429	3,110
40%	1,355	1,616	1,049	587	288	326	334	472	727	1,412	1,982	2,802
50%	1,124	1,311	982	477	283	244	253	439	696	1,307	1,785	2,299
60%	633	676	851	305	209	219	222	302	648	621	1,636	1,582
70%	426	577	650	259	201	194	215	275	487	552	1,538	741
80%	317	388	246	197	190	188	201	232	348	499	1,470	559
90%	307	255	185	195	185	184	191	202	285	483	1,314	466
Long Term												
Full Simulation Period[a]	1,300	1,519	1,106	499	403	334	368	670	1,120	1,379	2,015	2,042
Water Year Types[b]												
Wet (31%)	824	1,078	350	245	186	186	198	271	413	496	1,591	481
Above Normal (25%)	2,149	2,662	1,362	214	199	191	210	224	365	504	1,378	741
Below Normal (6%)	633	676	1,110	659	286	219	230	287	348	1,295	2,303	3,553
Dry (13%)	916	1,331	846	587	487	291	298	423	777	1,331	1,726	2,729
Critical (25%)	1,782	1,732	1,815	712	616	568	649	1,443	2,417	2,489	2,782	2,958

Alternative 2A,2B,2C (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-344	-209	-995	-366	-274	-87	**84**	**489**	**486**	**740**	**392**	-205
20%	-865	-574	-834	-215	**60**	**50**	**63**	**210**	**265**	**1,419**	**565**	-203
30%	-890	-915	-449	-164	-37	**24**	**77**	**7**	**312**	**483**	**437**	-215
40%	-960	-952	**27**	-171	-100	**73**	**21**	**19**	-79	**317**	**556**	-74
50%	-1,022	-369	**6**	-103	-38	**16**	**20**	**56**	**80**	**404**	**681**	-507
60%	-17	-36	-53	-144	-2	**20**	**15**	**44**	**117**	**174**	**601**	-977
70%	-54	**23**	-70	-5	**9**	**5**	**14**	**22**	**42**	**158**	**573**	**61**
80%	**32**	**54**	-64	**1**	**4**	**4**	**7**	**12**	**23**	**137**	**528**	**54**
90%	**27**	**29**	**1**	**2**	**2**	**2**	**5**	**10**	**10**	**178**	**412**	**99**
Long Term												
Full Simulation Period[a]	-407	-253	-226	-180	-78	**7**	**35**	**99**	**164**	**371**	**500**	-211
Water Year Types[b]												
Wet (31%)	-451	-111	-22	-9	**3**	**2**	**6**	**33**	**54**	**165**	**662**	**96**
Above Normal (25%)	-796	-117	-358	-10	**8**	**4**	**13**	**13**	**6**	**166**	**445**	**61**
Below Normal (6%)	-8	-36	**26**	-99	**13**	**20**	**14**	**31**	**23**	**375**	**878**	**796**
Dry (13%)	-58	**68**	-267	-222	-19	**28**	**16**	**16**	**66**	**400**	**426**	-189
Critical (25%)	-574	-722	-354	-369	-242	-7	**87**	**268**	**421**	**593**	**377**	-785

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-33-16. Sacramento River at Emmaton, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,246	3,738	3,029	1,137	1,135	609	518	1,322	2,252	2,010	2,593	3,748
20%	2,527	2,815	2,418	886	571	401	451	795	1,212	1,298	2,019	3,592
30%	2,421	2,699	1,743	795	401	371	344	476	891	1,275	1,992	3,325
40%	2,315	2,568	1,022	758	388	253	313	453	805	1,095	1,425	2,876
50%	2,146	1,681	976	580	321	228	233	383	616	903	1,104	2,806
60%	650	712	904	448	211	199	206	258	531	447	1,034	2,559
70%	480	554	720	264	191	190	201	254	446	394	966	680
80%	286	334	310	196	186	184	195	220	325	362	942	504
90%	280	226	184	192	182	182	186	192	275	304	903	367
Long Term												
Full Simulation Period[a]	1,707	1,772	1,332	679	481	327	332	571	957	1,008	1,514	2,253
Water Year Types[b]												
Wet (31%)	1,275	1,188	371	254	183	183	192	238	359	331	928	386
Above Normal (25%)	2,945	2,779	1,720	223	191	187	196	212	359	338	933	680
Below Normal (6%)	642	712	1,084	758	273	199	216	256	325	920	1,425	2,756
Dry (13%)	974	1,263	1,113	809	506	263	282	407	711	931	1,300	2,919
Critical (25%)	2,356	2,454	2,169	1,081	858	575	562	1,175	1,996	1,897	2,404	3,743

Alternative 3 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,164	3,056	2,570	1,010	779	554	607	1,878	2,654	2,729	3,125	3,561
20%	2,726	2,885	2,368	924	671	460	522	1,030	1,397	2,431	2,320	3,471
30%	2,393	2,407	1,785	797	467	361	410	573	1,202	1,733	2,197	3,280
40%	2,091	2,004	1,447	731	370	282	315	539	777	1,576	2,107	3,131
50%	1,391	1,738	1,279	578	318	257	289	491	723	1,258	1,818	2,995
60%	1,265	1,410	1,127	492	213	213	236	472	674	738	1,653	2,580
70%	808	1,331	939	257	192	189	207	297	601	622	1,606	2,471
80%	760	846	390	196	189	185	200	269	423	507	1,479	2,072
90%	607	483	182	192	183	183	188	209	274	473	1,386	1,853
Long Term												
Full Simulation Period[a]	1,717	1,809	1,396	603	402	332	371	720	1,135	1,389	2,010	2,746
Water Year Types[b]												
Wet (31%)	1,217	1,123	382	265	184	184	202	321	425	499	1,607	2,416
Above Normal (25%)	2,077	2,197	1,341	206	192	187	199	253	455	622	1,550	2,796
Below Normal (6%)	781	1,270	1,723	803	278	213	279	472	423	1,371	2,320	3,695
Dry (13%)	2,462	2,523	1,497	743	454	272	289	465	815	1,274	1,647	2,708
Critical (25%)	1,563	1,739	2,084	881	644	581	660	1,481	2,372	2,504	2,745	2,830

Alternative 3 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-82	-682	-459	-127	-356	-54	**89**	**556**	**402**	**719**	**532**	-187
20%	**199**	**70**	-50	**38**	**100**	**58**	**72**	**235**	**185**	**1,133**	**300**	-121
30%	-28	-292	**41**	**2**	**65**	-10	**66**	**96**	**311**	**458**	**205**	-45
40%	-225	-565	**425**	-27	-18	**29**	**2**	**86**	-28	**481**	**682**	**255**
50%	-756	**58**	**303**	-2	-3	**30**	**56**	**107**	**107**	**355**	**714**	**189**
60%	**615**	**698**	**222**	**44**	**2**	**14**	**30**	**214**	**143**	**291**	**618**	**21**
70%	**329**	**777**	**219**	-7	**1**	0	**7**	**44**	**155**	**228**	**641**	**1,791**
80%	**475**	**512**	**79**	0	**3**	**1**	**6**	**49**	**98**	**145**	**537**	**1,568**
90%	**327**	**257**	-2	0	**0**	**1**	**2**	**17**	-1	**168**	**484**	**1,486**
Long Term												
Full Simulation Period[a]	**10**	**37**	**64**	-76	-79	**5**	**39**	**149**	**178**	**381**	**496**	**493**
Water Year Types[b]												
Wet (31%)	-57	-65	**11**	**11**	**1**	**1**	**10**	**83**	**65**	**168**	**679**	**2,031**
Above Normal (25%)	-868	-583	-379	-18	**1**	**1**	**3**	**41**	**96**	**284**	**617**	**2,116**
Below Normal (6%)	**140**	**558**	**639**	**45**	**4**	**14**	**63**	**216**	**98**	**451**	**894**	**938**
Dry (13%)	**1,488**	**1,260**	**383**	-66	-52	**9**	**7**	**58**	**104**	**343**	**347**	-211
Critical (25%)	-792	-715	-85	-200	-215	**6**	**98**	**305**	**376**	**607**	**341**	-913

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-33-17. Sacramento River at Emmaton, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,246	3,738	3,029	1,137	1,135	609	518	1,322	2,252	2,010	2,593	3,748
20%	2,527	2,815	2,418	886	571	401	451	795	1,212	1,298	2,019	3,592
30%	2,421	2,699	1,743	795	401	371	344	476	891	1,275	1,992	3,325
40%	2,315	2,568	1,022	758	388	253	313	453	805	1,095	1,425	2,876
50%	2,146	1,681	976	580	321	228	233	383	616	903	1,104	2,806
60%	650	712	904	448	211	199	206	258	531	447	1,034	2,559
70%	480	554	720	264	191	190	201	254	446	394	966	680
80%	286	334	310	196	186	184	195	220	325	362	942	504
90%	280	226	184	192	182	182	186	192	275	304	903	367
Long Term												
Full Simulation Period[a]	1,707	1,772	1,332	679	481	327	332	571	957	1,008	1,514	2,253
Water Year Types[b]												
Wet (31%)	1,275	1,188	371	254	183	183	192	238	359	331	928	386
Above Normal (25%)	2,945	2,779	1,720	223	191	187	196	212	359	338	933	680
Below Normal (6%)	642	712	1,084	758	273	199	216	256	325	920	1,425	2,756
Dry (13%)	974	1,263	1,113	809	506	263	282	407	711	931	1,300	2,919
Critical (25%)	2,356	2,454	2,169	1,081	858	575	562	1,175	1,996	1,897	2,404	3,743

Alternative 4 H1 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,884	3,699	2,540	785	887	518	613	1,772	2,758	2,785	2,995	3,476
20%	2,318	2,218	1,819	755	425	435	517	1,010	1,420	2,640	2,532	3,366
30%	1,937	2,081	1,679	567	389	376	397	524	1,168	1,724	2,313	3,180
40%	1,691	1,838	1,541	508	285	304	338	480	881	1,646	2,126	3,048
50%	1,612	1,720	1,233	431	279	248	252	444	715	1,197	1,670	2,864
60%	1,440	1,557	1,094	291	214	215	222	299	663	656	1,571	2,735
70%	1,362	1,348	873	252	196	192	213	275	485	554	1,522	2,515
80%	1,147	1,193	233	197	189	188	202	235	329	490	1,474	2,310
90%	990	648	183	191	183	183	191	201	290	425	1,278	1,432
Long Term												
Full Simulation Period[a]	1,758	1,890	1,307	548	417	330	366	674	1,129	1,392	1,969	2,675
Water Year Types[b]												
Wet (31%)	1,181	1,006	343	240	185	185	198	270	414	482	1,515	2,521
Above Normal (25%)	2,201	2,704	1,399	204	194	189	208	226	373	490	1,367	2,722
Below Normal (6%)	1,035	1,367	1,819	774	277	215	231	290	329	1,265	2,299	3,572
Dry (13%)	2,104	2,251	1,416	614	488	281	294	445	823	1,266	1,598	2,279
Critical (25%)	1,909	2,089	1,851	833	663	566	649	1,437	2,409	2,606	2,804	2,916

Alternative 4 H1 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-362	-39	-489	-352	-248	-90	**95**	**450**	**506**	**775**	**401**	-273
20%	-208	-597	-598	-132	-146	**34**	**66**	**214**	**208**	**1,343**	**513**	-226
30%	-484	-618	-65	-228	-12	**5**	**54**	**48**	**277**	**449**	**321**	-144
40%	-625	-730	**519**	-249	-103	**50**	**24**	**27**	**75**	**551**	**700**	**171**
50%	-534	**40**	**257**	-149	-42	**20**	**19**	**60**	**100**	**294**	**565**	**58**
60%	**789**	**845**	**190**	-157	**3**	**16**	**15**	**41**	**133**	**209**	**536**	**176**
70%	**882**	**795**	**154**	-12	**5**	**2**	**12**	**22**	**39**	**160**	**556**	**1,836**
80%	**861**	**859**	-77	**1**	**3**	**4**	**7**	**14**	**4**	**128**	**532**	**1,805**
90%	**711**	**422**	-1	-2	**1**	**2**	**5**	**10**	**15**	**120**	**375**	**1,066**
Long Term												
Full Simulation Period[a]	**51**	**119**	-25	-131	-64	**3**	**34**	**103**	**173**	**383**	**455**	**422**
Water Year Types[b]												
Wet (31%)	-94	-183	-28	-14	**2**	**2**	**6**	**32**	**55**	**151**	**587**	**2,135**
Above Normal (25%)	-744	-75	-321	-19	**3**	**2**	**12**	**14**	**14**	**152**	**434**	**2,042**
Below Normal (6%)	**394**	**655**	**735**	**16**	**4**	**16**	**15**	**34**	**4**	**344**	**873**	**816**
Dry (13%)	**1,130**	**987**	**303**	-196	-18	**18**	**11**	**38**	**112**	**335**	**298**	-640
Critical (25%)	-447	-365	-318	-248	-195	-9	**87**	**262**	**413**	**709**	**399**	-827

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-33-18. Sacramento River at Emmaton, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,246	3,738	3,029	1,137	1,135	609	518	1,322	2,252	2,010	2,593	3,748
20%	2,527	2,815	2,418	886	571	401	451	795	1,212	1,298	2,019	3,592
30%	2,421	2,699	1,743	795	401	371	344	476	891	1,275	1,992	3,325
40%	2,315	2,568	1,022	758	388	253	313	453	805	1,095	1,425	2,876
50%	2,146	1,681	976	580	321	228	233	383	616	903	1,104	2,806
60%	650	712	904	448	211	199	206	258	531	447	1,034	2,559
70%	480	554	720	264	191	190	201	254	446	394	966	680
80%	286	334	310	196	186	184	195	220	325	362	942	504
90%	280	226	184	192	182	182	186	192	275	304	903	367
Long Term												
Full Simulation Period[a]	1,707	1,772	1,332	679	481	327	332	571	957	1,008	1,514	2,253
Water Year Types[b]												
Wet (31%)	1,275	1,188	371	254	183	183	192	238	359	331	928	386
Above Normal (25%)	2,945	2,779	1,720	223	191	187	196	212	359	338	933	680
Below Normal (6%)	642	712	1,084	758	273	199	216	256	325	920	1,425	2,756
Dry (13%)	974	1,263	1,113	809	506	263	282	407	711	931	1,300	2,919
Critical (25%)	2,356	2,454	2,169	1,081	858	575	562	1,175	1,996	1,897	2,404	3,743

Alternative 4 H2 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,686	3,578	2,575	976	863	518	569	1,749	2,744	2,718	2,917	3,513
20%	2,540	2,626	2,330	794	472	453	521	962	1,487	2,381	2,590	3,365
30%	1,920	2,261	2,037	664	397	337	402	541	1,195	1,687	2,315	3,123
40%	1,844	1,889	1,729	636	308	308	338	490	969	1,492	2,051	3,024
50%	1,746	1,649	1,441	486	274	247	250	383	796	1,387	1,896	2,749
60%	1,404	1,451	1,036	280	213	208	214	273	525	747	1,638	2,417
70%	1,262	1,224	851	243	197	192	207	244	415	695	1,538	2,408
80%	1,000	1,034	224	197	189	188	186	212	341	657	1,373	2,384
90%	872	630	182	190	184	183	183	191	292	615	1,293	2,148
Long Term												
Full Simulation Period[a]	1,732	1,897	1,435	526	404	323	357	652	1,135	1,478	2,002	2,718
Water Year Types[b]												
Wet (31%)	1,213	985	348	245	185	185	189	216	359	542	1,545	2,286
Above Normal (25%)	2,238	2,740	1,285	204	195	189	199	207	348	703	1,506	2,775
Below Normal (6%)	2,566	2,626	1,951	659	261	208	229	270	341	1,302	2,326	3,566
Dry (13%)	1,906	2,185	1,610	722	519	279	293	461	885	1,399	1,690	2,866
Critical (25%)	1,638	1,913	2,122	695	599	544	631	1,409	2,429	2,636	2,750	2,752

Alternative 4 H2 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-559	-160	-454	-161	-272	-90	**51**	**427**	**493**	**708**	**324**	-235
20%	**13**	-189	-87	-92	-99	**52**	**71**	**167**	**275**	**1,084**	**570**	-227
30%	-501	-438	**293**	-131	-4	-34	**58**	**65**	**304**	**412**	**323**	-202
40%	-471	-679	**707**	-122	-81	**55**	**25**	**36**	**163**	**397**	**625**	**147**
50%	-400	-32	**466**	-94	-47	**19**	**17**	0	**180**	**484**	**792**	-56
60%	**753**	**739**	**131**	-168	**3**	**9**	**7**	**15**	-6	**301**	**604**	-142
70%	**782**	**670**	**131**	-21	**6**	**3**	**6**	-10	-31	**301**	**573**	**1,728**
80%	**714**	**701**	-86	**1**	**3**	**4**	-8	-8	**16**	**294**	**431**	**1,879**
90%	**592**	**404**	-2	-3	**1**	**2**	-3	0	**17**	**310**	**390**	**1,782**
Long Term												
Full Simulation Period[a]	**25**	**125**	**103**	-153	-78	-4	**25**	**82**	**178**	**470**	**487**	**465**
Water Year Types[b]												
Wet (31%)	-61	-203	-23	-9	**2**	**2**	-3	-21	-1	**211**	**616**	**1,901**
Above Normal (25%)	-707	-39	-434	-20	**4**	**3**	**3**	-5	-11	**365**	**573**	**2,095**
Below Normal (6%)	**1,924**	**1,914**	**867**	-99	-12	**9**	**13**	**14**	**16**	**382**	**901**	**810**
Dry (13%)	**932**	**921**	**496**	-87	**13**	**16**	**11**	**54**	**174**	**468**	**390**	-52
Critical (25%)	-718	-541	-48	-386	-260	-31	**69**	**234**	**433**	**739**	**346**	-991

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-33-19. Sacramento River at Emmaton, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,246	3,738	3,029	1,137	1,135	609	518	1,322	2,252	2,010	2,593	3,748
20%	2,527	2,815	2,418	886	571	401	451	795	1,212	1,298	2,019	3,592
30%	2,421	2,699	1,743	795	401	371	344	476	891	1,275	1,992	3,325
40%	2,315	2,568	1,022	758	388	253	313	453	805	1,095	1,425	2,876
50%	2,146	1,681	976	580	321	228	233	383	616	903	1,104	2,806
60%	650	712	904	448	211	199	206	258	531	447	1,034	2,559
70%	480	554	720	264	191	190	201	254	446	394	966	680
80%	286	334	310	196	186	184	195	220	325	362	942	504
90%	280	226	184	192	182	182	186	192	275	304	903	367
Long Term												
Full Simulation Period[a]	1,707	1,772	1,332	679	481	327	332	571	957	1,008	1,514	2,253
Water Year Types[b]												
Wet (31%)	1,275	1,188	371	254	183	183	192	238	359	331	928	386
Above Normal (25%)	2,945	2,779	1,720	223	191	187	196	212	359	338	933	680
Below Normal (6%)	642	712	1,084	758	273	199	216	256	325	920	1,425	2,756
Dry (13%)	974	1,263	1,113	809	506	263	282	407	711	931	1,300	2,919
Critical (25%)	2,356	2,454	2,169	1,081	858	575	562	1,175	1,996	1,897	2,404	3,743

Alternative 4 H3 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,859	3,548	2,039	769	914	527	603	1,804	2,772	2,809	2,959	3,427
20%	2,553	2,535	1,465	695	660	460	532	1,006	1,477	2,717	2,736	3,245
30%	1,858	2,038	1,191	619	387	380	421	485	1,206	1,910	2,445	2,953
40%	1,508	1,793	1,026	502	282	311	333	475	774	1,602	2,257	2,805
50%	1,148	1,141	974	423	270	242	253	443	716	1,248	1,658	2,171
60%	648	680	838	297	206	211	222	302	663	637	1,582	1,533
70%	427	572	648	250	196	192	213	275	490	552	1,513	738
80%	321	390	242	197	189	188	201	232	351	495	1,435	560
90%	307	260	183	191	183	183	191	201	289	424	1,287	460
Long Term												
Full Simulation Period[a]	1,369	1,564	1,087	490	413	339	370	671	1,135	1,415	2,014	1,977
Water Year Types[b]												
Wet (31%)	1,040	1,007	345	241	185	185	198	270	418	474	1,495	474
Above Normal (25%)	2,118	2,630	1,251	204	194	189	208	225	368	493	1,367	738
Below Normal (6%)	648	680	1,280	695	261	211	229	288	351	1,324	2,333	3,570
Dry (13%)	929	1,335	845	578	483	279	298	427	800	1,294	1,716	2,483
Critical (25%)	1,828	1,944	1,771	694	658	594	657	1,443	2,440	2,653	2,863	2,951

Alternative 4 H3 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-387	-190	-990	-368	-221	-82	**85**	**483**	**521**	**798**	**366**	-321
20%	**26**	-280	-952	-191	**89**	**59**	**81**	**211**	**265**	**1,420**	**717**	-347
30%	-563	-661	-553	-177	-14	**9**	**77**	**9**	**315**	**635**	**453**	-372
40%	-807	-775	**4**	-256	-106	**58**	**19**	**22**	-31	**507**	**831**	-71
50%	-998	-539	-2	-157	-51	**14**	**20**	**60**	**100**	**346**	**553**	-634
60%	-3	-32	-66	-151	-5	**13**	**15**	**44**	**132**	**190**	**547**	-1,026
70%	-52	**18**	-71	-14	**5**	**2**	**12**	**22**	**44**	**157**	**548**	**58**
80%	**35**	**56**	-69	**1**	**3**	**4**	**7**	**12**	**26**	**133**	**493**	**56**
90%	**27**	**35**	-1	-1	**1**	**2**	**5**	**10**	**14**	**119**	**384**	**94**
Long Term												
Full Simulation Period[a]	-338	-207	-244	-189	-68	**12**	**38**	**101**	**178**	**407**	**500**	-276
Water Year Types[b]												
Wet (31%)	-235	-182	-26	-13	**2**	**2**	**6**	**32**	**59**	**143**	**566**	**88**
Above Normal (25%)	-827	-149	-469	-19	**3**	**2**	**12**	**13**	**9**	**154**	**434**	**58**
Below Normal (6%)	**6**	-32	**196**	-63	-12	**13**	**13**	**32**	**26**	**403**	**907**	**814**
Dry (13%)	-45	**72**	-268	-231	-23	**17**	**16**	**20**	**89**	**363**	**416**	-436
Critical (25%)	-528	-510	-398	-388	-201	**19**	**96**	**268**	**443**	**756**	**459**	-792

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-33-20. Sacramento River at Emmaton, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,246	3,738	3,029	1,137	1,135	609	518	1,322	2,252	2,010	2,593	3,748
20%	2,527	2,815	2,418	886	571	401	451	795	1,212	1,298	2,019	3,592
30%	2,421	2,699	1,743	795	401	371	344	476	891	1,275	1,992	3,325
40%	2,315	2,568	1,022	758	388	253	313	453	805	1,095	1,425	2,876
50%	2,146	1,681	976	580	321	228	233	383	616	903	1,104	2,806
60%	650	712	904	448	211	199	206	258	531	447	1,034	2,559
70%	480	554	720	264	191	190	201	254	446	394	966	680
80%	286	334	310	196	186	184	195	220	325	362	942	504
90%	280	226	184	192	182	182	186	192	275	304	903	367
Long Term												
Full Simulation Period[a]	1,707	1,772	1,332	679	481	327	332	571	957	1,008	1,514	2,253
Water Year Types[b]												
Wet (31%)	1,275	1,188	371	254	183	183	192	238	359	331	928	386
Above Normal (25%)	2,945	2,779	1,720	223	191	187	196	212	359	338	933	680
Below Normal (6%)	642	712	1,084	758	273	199	216	256	325	920	1,425	2,756
Dry (13%)	974	1,263	1,113	809	506	263	282	407	711	931	1,300	2,919
Critical (25%)	2,356	2,454	2,169	1,081	858	575	562	1,175	1,996	1,897	2,404	3,743

Alternative 4 H4 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,005	3,285	2,516	1,126	1,042	541	583	1,736	2,722	2,740	2,796	3,307
20%	2,105	2,375	1,870	782	665	449	516	963	1,489	2,307	2,444	2,948
30%	1,574	1,967	1,353	712	401	373	390	540	1,207	1,827	2,243	2,688
40%	1,241	1,401	1,058	659	291	305	343	489	959	1,700	2,040	2,441
50%	976	920	956	482	268	242	252	386	812	1,399	1,848	2,369
60%	621	685	836	298	206	211	213	276	534	748	1,643	2,275
70%	430	584	644	251	196	192	206	243	416	688	1,520	752
80%	317	386	241	197	189	188	186	212	323	641	1,374	556
90%	304	261	181	190	184	183	182	191	285	613	1,300	453
Long Term												
Full Simulation Period[a]	1,297	1,464	1,168	611	447	332	360	651	1,135	1,475	1,962	1,961
Water Year Types[b]												
Wet (31%)	856	883	344	245	185	185	189	219	361	537	1,517	473
Above Normal (25%)	2,181	2,652	1,287	204	194	189	199	207	348	703	1,508	752
Below Normal (6%)	621	685	1,153	659	260	211	228	268	310	1,201	2,213	3,597
Dry (13%)	916	1,327	952	602	499	274	293	461	893	1,518	1,734	2,859
Critical (25%)	1,736	1,720	1,954	1,064	755	577	642	1,401	2,426	2,555	2,631	2,591

Alternative 4 H4 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-241	-452	-513	-10	-93	-68	**65**	**414**	**470**	**730**	**203**	-441
20%	-422	-440	-548	-104	**94**	**48**	**66**	**167**	**277**	**1,009**	**425**	-643
30%	-848	-733	-390	-84	-1	**2**	**47**	**64**	**315**	**552**	**251**	-637
40%	-1,075	-1,167	**36**	-98	-98	**52**	**30**	**36**	**154**	**605**	**614**	-436
50%	-1,170	-761	-19	-98	-53	**14**	**19**	**2**	**196**	**496**	**744**	-437
60%	-30	-27	-68	-150	-5	**12**	**7**	**17**	**3**	**301**	**609**	-284
70%	-50	**31**	-76	-13	**5**	**2**	**5**	-11	-30	**294**	**554**	**72**
80%	**31**	**52**	-69	**1**	**3**	**4**	-8	-8	-2	**278**	**432**	**52**
90%	**24**	**36**	-2	-2	**1**	**2**	-4	0	**10**	**309**	**397**	**86**
Long Term												
Full Simulation Period[a]	-409	-307	-164	-68	-34	**5**	**28**	**80**	**178**	**467**	**448**	-292
Water Year Types[b]												
Wet (31%)	-418	-306	-27	-9	**2**	**2**	-3	-19	**1**	**206**	**589**	**87**
Above Normal (25%)	-764	-127	-433	-20	**3**	**3**	**3**	-4	-11	**365**	**575**	**72**
Below Normal (6%)	-21	-27	**69**	-98	-13	**12**	**12**	**12**	-15	**280**	**787**	**840**
Dry (13%)	-58	**64**	-162	-207	-8	**11**	**10**	**54**	**182**	**587**	**434**	-60
Critical (25%)	-619	-734	-215	-17	-104	**3**	**81**	**226**	**430**	**659**	**227**	-1,152

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-33-21. Sacramento River at Emmaton, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,246	3,738	3,029	1,137	1,135	609	518	1,322	2,252	2,010	2,593	3,748
20%	2,527	2,815	2,418	886	571	401	451	795	1,212	1,298	2,019	3,592
30%	2,421	2,699	1,743	795	401	371	344	476	891	1,275	1,992	3,325
40%	2,315	2,568	1,022	758	388	253	313	453	805	1,095	1,425	2,876
50%	2,146	1,681	976	580	321	228	233	383	616	903	1,104	2,806
60%	650	712	904	448	211	199	206	258	531	447	1,034	2,559
70%	480	554	720	264	191	190	201	254	446	394	966	680
80%	286	334	310	196	186	184	195	220	325	362	942	504
90%	280	226	184	192	182	182	186	192	275	304	903	367
Long Term												
Full Simulation Period[a]	1,707	1,772	1,332	679	481	327	332	571	957	1,008	1,514	2,253
Water Year Types[b]												
Wet (31%)	1,275	1,188	371	254	183	183	192	238	359	331	928	386
Above Normal (25%)	2,945	2,779	1,720	223	191	187	196	212	359	338	933	680
Below Normal (6%)	642	712	1,084	758	273	199	216	256	325	920	1,425	2,756
Dry (13%)	974	1,263	1,113	809	506	263	282	407	711	931	1,300	2,919
Critical (25%)	2,356	2,454	2,169	1,081	858	575	562	1,175	1,996	1,897	2,404	3,743

Alternative 5 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,329	3,221	2,547	1,150	995	575	553	1,659	2,642	2,799	3,116	3,420
20%	2,889	2,084	2,368	1,001	629	443	436	1,008	1,483	2,019	2,782	3,309
30%	2,283	1,921	1,360	742	431	408	387	539	1,221	1,761	2,280	3,036
40%	1,524	1,858	1,069	638	381	294	331	505	897	1,218	1,897	2,898
50%	1,348	1,539	985	617	309	248	249	463	788	1,004	1,559	2,509
60%	761	755	962	611	210	204	214	309	649	724	1,458	2,202
70%	515	567	693	254	190	188	205	280	523	586	1,394	695
80%	313	406	346	194	185	184	199	237	345	520	1,319	535
90%	295	249	182	189	183	182	189	200	287	474	1,210	409
Long Term												
Full Simulation Period[a]	1,549	1,514	1,235	614	431	339	349	667	1,143	1,310	1,935	2,064
Water Year Types[b]												
Wet (31%)	1,533	1,110	428	295	183	183	196	273	415	501	1,408	433
Above Normal (25%)	2,725	2,914	1,308	201	190	186	198	226	395	528	1,346	695
Below Normal (6%)	761	755	989	680	276	204	224	284	345	951	1,912	3,461
Dry (13%)	1,158	1,241	1,198	872	505	292	296	465	873	1,305	1,655	2,853
Critical (25%)	1,563	1,646	1,930	815	697	588	600	1,395	2,399	2,344	2,822	3,007

Alternative 5 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**83**	-517	-482	**13**	-140	-34	**35**	**337**	**390**	**789**	**523**	-329
20%	**362**	-731	-50	**114**	**58**	**42**	-15	**212**	**270**	**721**	**763**	-283
30%	-138	-778	-384	-54	**29**	**37**	**43**	**62**	**330**	**486**	**288**	-288
40%	-792	-710	**47**	-120	-7	**41**	**17**	**52**	**92**	**123**	**471**	**21**
50%	-798	-142	**9**	**37**	-12	**20**	**16**	**79**	**173**	**101**	**455**	-296
60%	**110**	**43**	**58**	**163**	-1	**5**	**7**	**51**	**118**	**277**	**423**	-357
70%	**35**	**13**	-26	-10	-1	-1	**5**	**26**	**77**	**191**	**429**	**15**
80%	**28**	**72**	**35**	-2	0	**0**	**4**	**17**	**21**	**158**	**377**	**31**
90%	**15**	**23**	-2	-3	**0**	0	**3**	**8**	**12**	**169**	**307**	**42**
Long Term												
Full Simulation Period[a]	-157	-258	-97	-65	-51	**12**	**17**	**96**	**186**	**302**	**421**	-189
Water Year Types[b]												
Wet (31%)	**258**	-79	**57**	**41**	0	0	**3**	**35**	**56**	**170**	**480**	**48**
Above Normal (25%)	-221	**135**	-412	-22	-1	-1	**2**	**14**	**36**	**190**	**413**	**15**
Below Normal (6%)	**119**	**43**	-95	-78	**3**	**5**	**8**	**28**	**21**	**31**	**487**	**704**
Dry (13%)	**184**	-22	**85**	**63**	-1	**30**	**13**	**57**	**162**	**374**	**355**	-66
Critical (25%)	-793	-808	-240	-266	-161	**13**	**39**	**220**	**402**	**448**	**417**	-737

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-33-22. Sacramento River at Emmaton, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,246	3,738	3,029	1,137	1,135	609	518	1,322	2,252	2,010	2,593	3,748
20%	2,527	2,815	2,418	886	571	401	451	795	1,212	1,298	2,019	3,592
30%	2,421	2,699	1,743	795	401	371	344	476	891	1,275	1,992	3,325
40%	2,315	2,568	1,022	758	388	253	313	453	805	1,095	1,425	2,876
50%	2,146	1,681	976	580	321	228	233	383	616	903	1,104	2,806
60%	650	712	904	448	211	199	206	258	531	447	1,034	2,559
70%	480	554	720	264	191	190	201	254	446	394	966	680
80%	286	334	310	196	186	184	195	220	325	362	942	504
90%	280	226	184	192	182	182	186	192	275	304	903	367
Long Term												
Full Simulation Period[a]	1,707	1,772	1,332	679	481	327	332	571	957	1,008	1,514	2,253
Water Year Types[b]												
Wet (31%)	1,275	1,188	371	254	183	183	192	238	359	331	928	386
Above Normal (25%)	2,945	2,779	1,720	223	191	187	196	212	359	338	933	680
Below Normal (6%)	642	712	1,084	758	273	199	216	256	325	920	1,425	2,756
Dry (13%)	974	1,263	1,113	809	506	263	282	407	711	931	1,300	2,919
Critical (25%)	2,356	2,454	2,169	1,081	858	575	562	1,175	1,996	1,897	2,404	3,743

Alternative 6A,6B,6C (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,999	1,924	924	519	602	503	546	1,382	2,178	3,114	2,795	2,226
20%	1,359	1,123	846	348	342	347	408	962	1,477	2,682	2,415	2,049
30%	1,042	875	656	337	266	267	351	588	1,198	2,369	2,213	1,711
40%	949	801	493	298	248	253	292	534	986	2,046	1,952	1,492
50%	879	671	389	248	226	228	257	436	839	1,763	1,595	1,302
60%	567	541	331	233	209	220	218	269	586	1,212	1,285	1,140
70%	426	441	288	217	201	194	214	266	476	759	977	672
80%	289	320	205	200	191	188	202	230	317	641	864	400
90%	284	247	182	191	185	184	191	201	277	559	826	328
Long Term												
Full Simulation Period[a]	975	860	576	378	334	300	345	615	1,045	1,717	1,674	1,323
Water Year Types[b]												
Wet (31%)	606	436	209	203	186	186	198	247	398	518	765	340
Above Normal (25%)	1,908	1,605	569	201	200	191	209	223	346	720	906	672
Below Normal (6%)	553	541	505	298	260	220	229	269	317	1,212	1,285	1,140
Dry (13%)	729	669	473	304	302	242	277	495	942	1,938	1,904	1,506
Critical (25%)	1,178	1,117	971	663	546	497	593	1,231	2,070	3,000	2,603	2,261

Alternative 6A,6B,6C (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,247	-1,814	-2,106	-618	-532	-106	**28**	**61**	-74	**1,103**	**201**	-1,523
20%	-1,167	-1,692	-1,571	-539	-229	-54	-43	**167**	**265**	**1,384**	**395**	-1,542
30%	-1,380	-1,824	-1,087	-459	-135	-104	**7**	**112**	**307**	**1,093**	**221**	-1,614
40%	-1,366	-1,767	-529	-460	-141	0	-22	**81**	**180**	**950**	**526**	-1,385
50%	-1,267	-1,009	-586	-332	-95	0	**24**	**53**	**224**	**860**	**490**	-1,504
60%	-83	-171	-573	-215	-2	**21**	**12**	**11**	**56**	**765**	**251**	-1,419
70%	-54	-113	-432	-47	**9**	**4**	**14**	**12**	**30**	**365**	**12**	-8
80%	**4**	-13	-105	**4**	**5**	**4**	**7**	**9**	-8	**279**	-78	-104
90%	**4**	**21**	-2	-1	**2**	**2**	**5**	**10**	**2**	**254**	-76	-39
Long Term												
Full Simulation Period[a]	-732	-912	-755	-301	-148	-27	**12**	**44**	**88**	**709**	**160**	-930
Water Year Types[b]												
Wet (31%)	-668	-752	-162	-51	**3**	**2**	**5**	**9**	**39**	**187**	-164	-46
Above Normal (25%)	-1,037	-1,174	-1,151	-23	**8**	**4**	**13**	**11**	-13	**382**	-27	-8
Below Normal (6%)	-89	-171	-579	-460	-14	**21**	**13**	**12**	-8	**291**	-140	-1,616
Dry (13%)	-245	-594	-640	-505	-204	-20	-5	**87**	**231**	**1,006**	**604**	-1,412
Critical (25%)	-1,178	-1,337	-1,198	-418	-312	-78	**32**	**56**	**74**	**1,103**	**199**	-1,482

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-33-23. Sacramento River at Emmaton, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,246	3,738	3,029	1,137	1,135	609	518	1,322	2,252	2,010	2,593	3,748
20%	2,527	2,815	2,418	886	571	401	451	795	1,212	1,298	2,019	3,592
30%	2,421	2,699	1,743	795	401	371	344	476	891	1,275	1,992	3,325
40%	2,315	2,568	1,022	758	388	253	313	453	805	1,095	1,425	2,876
50%	2,146	1,681	976	580	321	228	233	383	616	903	1,104	2,806
60%	650	712	904	448	211	199	206	258	531	447	1,034	2,559
70%	480	554	720	264	191	190	201	254	446	394	966	680
80%	286	334	310	196	186	184	195	220	325	362	942	504
90%	280	226	184	192	182	182	186	192	275	304	903	367
Long Term												
Full Simulation Period[a]	1,707	1,772	1,332	679	481	327	332	571	957	1,008	1,514	2,253
Water Year Types[b]												
Wet (31%)	1,275	1,188	371	254	183	183	192	238	359	331	928	386
Above Normal (25%)	2,945	2,779	1,720	223	191	187	196	212	359	338	933	680
Below Normal (6%)	642	712	1,084	758	273	199	216	256	325	920	1,425	2,756
Dry (13%)	974	1,263	1,113	809	506	263	282	407	711	931	1,300	2,919
Critical (25%)	2,356	2,454	2,169	1,081	858	575	562	1,175	1,996	1,897	2,404	3,743

Alternative 7 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,817	1,814	1,016	517	590	457	507	1,077	1,241	2,367	2,469	3,270
20%	2,232	1,150	874	346	336	345	398	902	1,052	1,984	2,202	3,129
30%	2,086	1,115	564	331	264	262	339	581	924	1,715	2,079	3,030
40%	2,030	981	463	301	246	251	289	538	873	1,359	1,612	2,937
50%	1,604	754	388	254	226	222	248	440	672	1,067	1,457	2,514
60%	604	551	346	239	204	210	218	273	510	722	1,450	2,391
70%	391	412	295	216	197	191	213	267	366	598	1,397	746
80%	311	335	207	196	188	188	202	231	303	529	1,365	569
90%	287	250	181	189	183	184	191	200	268	518	1,291	451
Long Term												
Full Simulation Period[a]	1,497	922	589	372	327	290	335	527	735	1,254	1,734	2,062
Water Year Types[b]												
Wet (31%)	1,026	469	213	203	185	185	198	247	339	494	1,467	476
Above Normal (25%)	2,932	1,485	487	197	195	189	208	222	291	532	1,384	746
Below Normal (6%)	604	595	506	301	253	210	224	266	333	964	1,450	2,391
Dry (13%)	852	704	472	304	300	237	271	493	826	1,232	1,481	3,073
Critical (25%)	1,996	1,297	1,040	646	531	474	570	953	1,237	2,226	2,348	2,982

Alternative 7 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-429	-1,924	-2,013	-620	-545	-151	-11	-245	-1,010	**356**	-124	-478
20%	-295	-1,665	-1,543	-540	-235	-56	-53	**106**	-160	**687**	**183**	-463
30%	-335	-1,585	-1,180	-464	-137	-109	-5	**105**	**33**	**440**	**87**	-294
40%	-286	-1,587	-559	-457	-143	-2	-24	**85**	**67**	**264**	**186**	**60**
50%	-543	-927	-588	-326	-95	-6	**15**	**56**	**56**	**165**	**352**	-292
60%	-47	-161	-558	-210	-6	**11**	**12**	**15**	-21	**275**	**416**	-168
70%	-88	-142	-425	-48	**5**	**1**	**12**	**14**	-80	**203**	**431**	**66**
80%	**25**	**1**	-103	-1	**3**	**4**	**7**	**10**	-22	**167**	**423**	**64**
90%	**7**	**24**	-3	-3	**1**	**2**	**5**	**8**	-7	**214**	**388**	**85**
Long Term												
Full Simulation Period[a]	-209	-850	-743	-307	-154	-36	**3**	-44	-222	**246**	**220**	-191
Water Year Types[b]												
Wet (31%)	-249	-720	-158	-51	**2**	**1**	**5**	**9**	-21	**163**	**539**	**91**
Above Normal (25%)	-14	-1,294	-1,233	-26	**3**	**2**	**12**	**11**	-68	**194**	**451**	**66**
Below Normal (6%)	-38	-117	-578	-457	-21	**11**	**8**	**10**	**8**	**43**	**25**	-365
Dry (13%)	-122	-559	-641	-506	-206	-25	-11	**86**	**115**	**301**	**181**	**155**
Critical (25%)	-360	-1,157	-1,130	-435	-327	-101	**9**	-222	-759	**329**	-56	-761

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-33-24. Sacramento River at Emmaton, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,246	3,738	3,029	1,137	1,135	609	518	1,322	2,252	2,010	2,593	3,748
20%	2,527	2,815	2,418	886	571	401	451	795	1,212	1,298	2,019	3,592
30%	2,421	2,699	1,743	795	401	371	344	476	891	1,275	1,992	3,325
40%	2,315	2,568	1,022	758	388	253	313	453	805	1,095	1,425	2,876
50%	2,146	1,681	976	580	321	228	233	383	616	903	1,104	2,806
60%	650	712	904	448	211	199	206	258	531	447	1,034	2,559
70%	480	554	720	264	191	190	201	254	446	394	966	680
80%	286	334	310	196	186	184	195	220	325	362	942	504
90%	280	226	184	192	182	182	186	192	275	304	903	367
Long Term												
Full Simulation Period[a]	1,707	1,772	1,332	679	481	327	332	571	957	1,008	1,514	2,253
Water Year Types[b]												
Wet (31%)	1,275	1,188	371	254	183	183	192	238	359	331	928	386
Above Normal (25%)	2,945	2,779	1,720	223	191	187	196	212	359	338	933	680
Below Normal (6%)	642	712	1,084	758	273	199	216	256	325	920	1,425	2,756
Dry (13%)	974	1,263	1,113	809	506	263	282	407	711	931	1,300	2,919
Critical (25%)	2,356	2,454	2,169	1,081	858	575	562	1,175	1,996	1,897	2,404	3,743

Alternative 8 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,303	2,182	1,021	529	533	354	366	750	1,119	2,338	2,486	3,532
20%	3,112	1,684	975	338	327	251	328	583	858	1,987	2,382	3,235
30%	2,298	1,103	629	315	240	239	250	515	825	1,845	2,268	3,185
40%	2,034	980	479	285	229	218	234	367	768	1,789	2,086	3,064
50%	1,959	816	394	237	216	205	218	309	655	1,484	1,897	2,948
60%	556	582	343	224	199	204	208	241	462	1,258	1,867	2,804
70%	407	484	302	214	195	191	206	225	358	694	1,562	745
80%	315	333	205	196	190	188	196	218	295	608	1,448	512
90%	293	251	181	189	183	183	188	195	270	579	1,427	451
Long Term												
Full Simulation Period[a]	1,637	1,030	615	373	316	265	293	423	691	1,396	1,964	2,216
Water Year Types[b]												
Wet (31%)	1,205	524	214	199	185	185	194	219	323	542	1,466	461
Above Normal (25%)	2,573	1,506	553	197	193	188	201	213	289	631	1,449	745
Below Normal (6%)	556	582	505	285	235	205	211	218	330	1,258	1,882	3,229
Dry (13%)	1,128	913	509	291	259	214	228	420	815	1,693	2,043	3,391
Critical (25%)	2,231	1,428	1,065	664	532	413	479	713	1,120	2,176	2,522	3,067

Alternative 8 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	58	-1,556	-2,008	-608	-602	-254	-152	-571	-1,133	327	-108	-217
20%	586	-1,131	-1,443	-548	-244	-151	-123	-212	-354	689	363	-357
30%	-123	-1,596	-1,114	-481	-161	-131	-94	39	-66	570	276	-140
40%	-282	-1,588	-543	-473	-159	-35	-79	-86	-37	694	661	188
50%	-187	-864	-582	-343	-105	-23	-14	-74	40	581	793	142
60%	-95	-130	-562	-224	-12	6	2	-17	-69	811	833	245
70%	-73	-70	-418	-50	3	1	5	-28	-87	299	596	65
80%	30	-1	-105	-1	4	5	1	-2	-30	246	506	8
90%	13	26	-3	-4	1	1	2	3	-5	274	524	85
Long Term												
Full Simulation Period[a]	-70	-741	-717	-306	-166	-62	-39	-148	-266	388	450	-37
Water Year Types[b]												
Wet (31%)	-69	-665	-157	-55	2	2	1	-19	-37	211	538	76
Above Normal (25%)	-372	-1,273	-1,167	-27	2	2	5	2	-70	293	516	65
Below Normal (6%)	-86	-130	-579	-473	-38	6	-5	-38	5	338	457	473
Dry (13%)	154	-350	-604	-518	-247	-48	-54	13	104	762	743	472
Critical (25%)	-125	-1,025	-1,104	-417	-327	-162	-83	-462	-876	279	118	-676

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-33-25. Sacramento River at Emmaton, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,246	3,738	3,029	1,137	1,135	609	518	1,322	2,252	2,010	2,593	3,748
20%	2,527	2,815	2,418	886	571	401	451	795	1,212	1,298	2,019	3,592
30%	2,421	2,699	1,743	795	401	371	344	476	891	1,275	1,992	3,325
40%	2,315	2,568	1,022	758	388	253	313	453	805	1,095	1,425	2,876
50%	2,146	1,681	976	580	321	228	233	383	616	903	1,104	2,806
60%	650	712	904	448	211	199	206	258	531	447	1,034	2,559
70%	480	554	720	264	191	190	201	254	446	394	966	680
80%	286	334	310	196	186	184	195	220	325	362	942	504
90%	280	226	184	192	182	182	186	192	275	304	903	367
Long Term												
Full Simulation Period[a]	1,707	1,772	1,332	679	481	327	332	571	957	1,008	1,514	2,253
Water Year Types[b]												
Wet (31%)	1,275	1,188	371	254	183	183	192	238	359	331	928	386
Above Normal (25%)	2,945	2,779	1,720	223	191	187	196	212	359	338	933	680
Below Normal (6%)	642	712	1,084	758	273	199	216	256	325	920	1,425	2,756
Dry (13%)	974	1,263	1,113	809	506	263	282	407	711	931	1,300	2,919
Critical (25%)	2,356	2,454	2,169	1,081	858	575	562	1,175	1,996	1,897	2,404	3,743

Alternative 9 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,458	4,742	3,510	2,146	1,498	713	623	1,505	2,305	2,462	2,346	3,446
20%	3,807	4,019	3,068	1,201	1,096	526	490	1,045	1,520	2,317	2,122	3,316
30%	3,780	3,633	2,342	928	461	407	387	469	912	1,831	1,790	3,117
40%	3,466	3,382	1,434	856	368	319	333	382	709	1,660	1,678	2,960
50%	2,558	2,321	1,307	719	297	235	276	373	662	1,456	1,609	2,905
60%	782	826	1,124	541	209	197	241	359	620	1,112	1,550	2,782
70%	475	618	912	255	189	187	210	335	380	874	1,501	764
80%	285	376	334	190	184	183	201	254	362	485	1,461	456
90%	279	228	180	188	182	181	186	194	307	420	1,330	376
Long Term												
Full Simulation Period[a]	2,286	2,330	1,717	958	625	381	385	609	954	1,452	1,742	2,185
Water Year Types[b]												
Wet (31%)	1,422	1,348	493	302	182	182	201	305	364	558	1,434	378
Above Normal (25%)	4,202	3,923	2,342	203	189	185	197	231	373	583	1,375	764
Below Normal (6%)	782	826	1,286	790	256	197	253	359	338	1,255	1,682	2,960
Dry (13%)	1,377	1,753	1,578	1,007	575	281	297	375	716	1,572	1,658	3,087
Critical (25%)	3,238	3,242	2,645	1,779	1,267	734	705	1,242	1,972	2,457	2,214	3,322

Alternative 9 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**1,212**	**1,004**	**480**	**1,009**	**363**	**105**	**105**	**184**	**53**	**451**	-247	-303
20%	**1,281**	**1,204**	**651**	**315**	**524**	**125**	**39**	**250**	**308**	**1,019**	**103**	-276
30%	**1,359**	**934**	**599**	**133**	**60**	**36**	**44**	-7	**21**	**556**	-202	-208
40%	**1,151**	**813**	**412**	**98**	-20	**66**	**19**	-71	-96	**565**	**253**	**84**
50%	**412**	**641**	**332**	**139**	-24	**7**	**43**	-10	**46**	**553**	**505**	**99**
60%	**131**	**114**	**220**	**93**	-2	-2	**35**	**101**	**89**	**666**	**515**	**223**
70%	-5	**64**	**193**	-9	-2	-2	**9**	**81**	-66	**480**	**535**	**84**
80%	0	**43**	**24**	-7	-2	-1	**7**	**34**	**37**	**123**	**519**	-48
90%	-1	**3**	-4	-4	-1	-1	**0**	**3**	**32**	**116**	**427**	**9**
Long Term												
Full Simulation Period[a]	**579**	**559**	**386**	**279**	**143**	**54**	**53**	**38**	-3	**443**	**228**	-68
Water Year Types[b]												
Wet (31%)	**147**	**159**	**122**	**48**	-1	-1	**9**	**67**	**5**	**227**	**506**	-7
Above Normal (25%)	**1,257**	**1,144**	**622**	-21	-2	-1	**1**	**19**	**14**	**245**	**442**	**84**
Below Normal (6%)	**140**	**114**	**202**	**32**	-17	-2	**36**	**103**	**13**	**335**	**256**	**204**
Dry (13%)	**403**	**489**	**465**	**198**	**68**	**18**	**15**	-32	**5**	**641**	**358**	**168**
Critical (25%)	**883**	**789**	**476**	**698**	**408**	**159**	**143**	**67**	-25	**560**	-190	-422

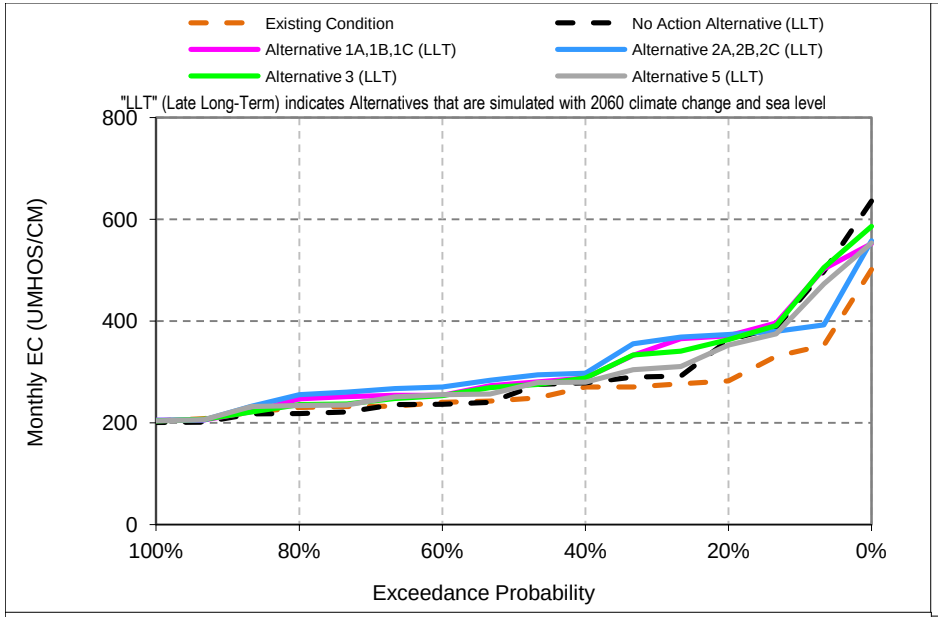
a Based on the 16-year simulation period

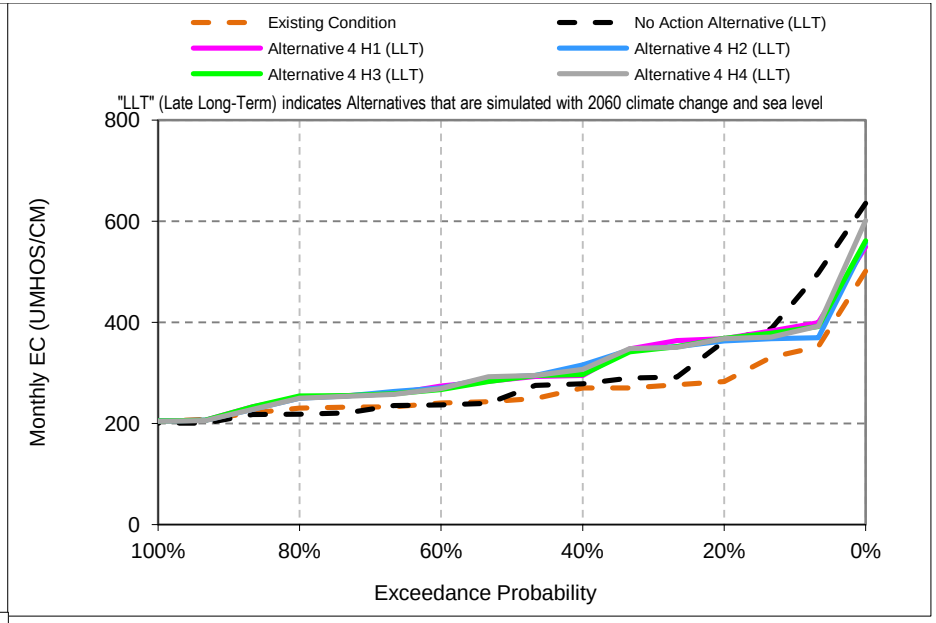
b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

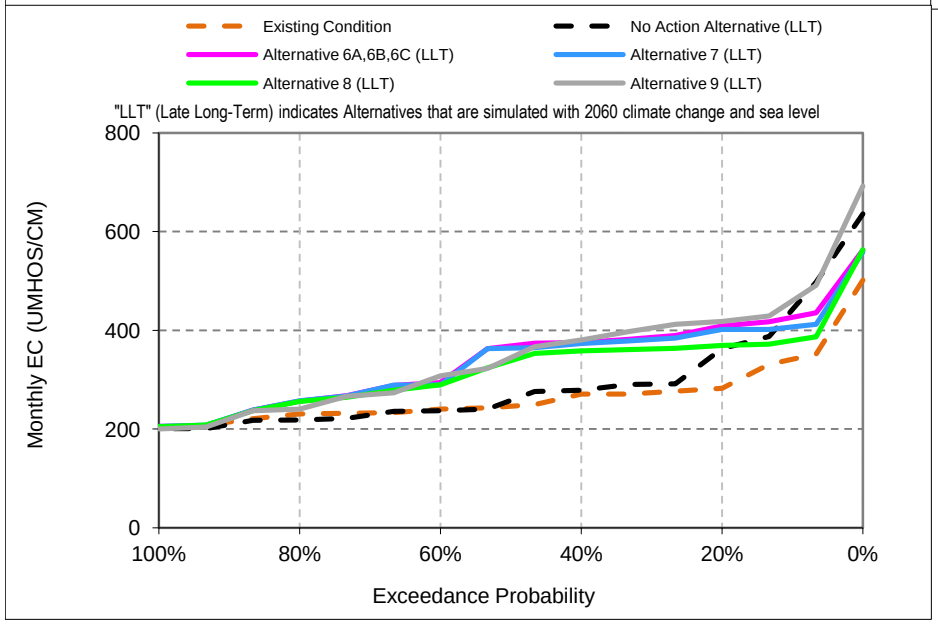
Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

C.34. San Joaquin River at Jersey Point Salinity



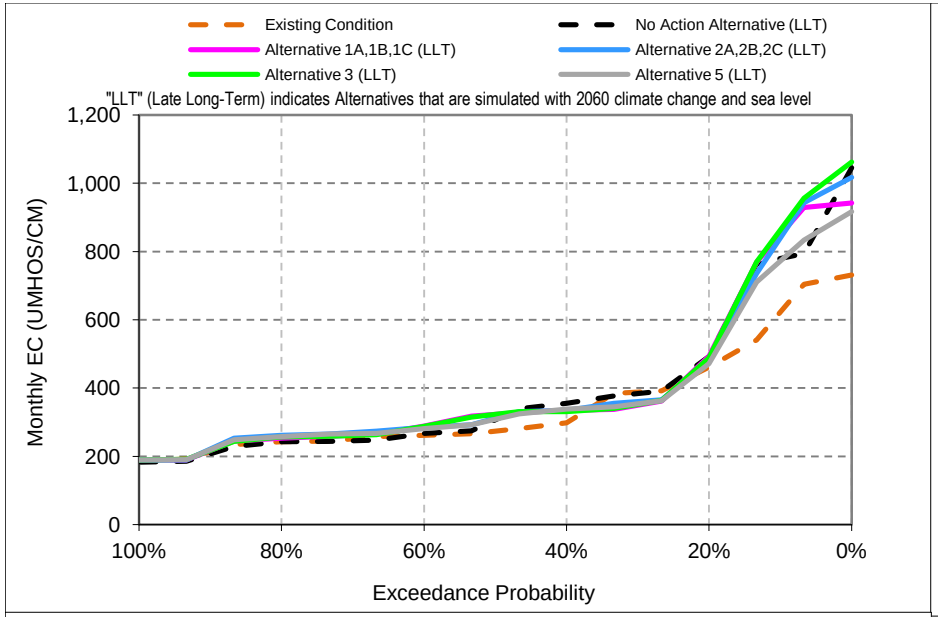


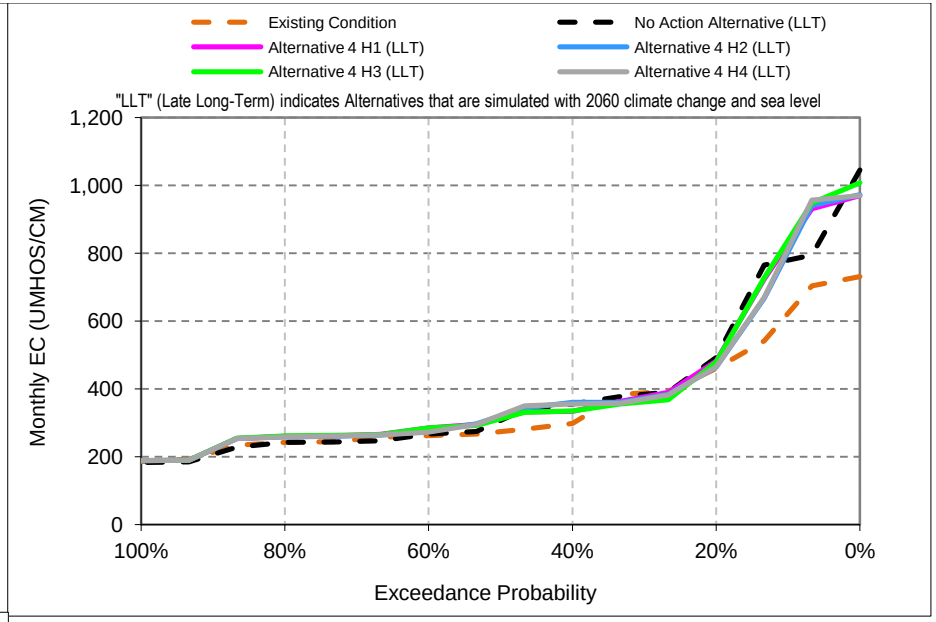


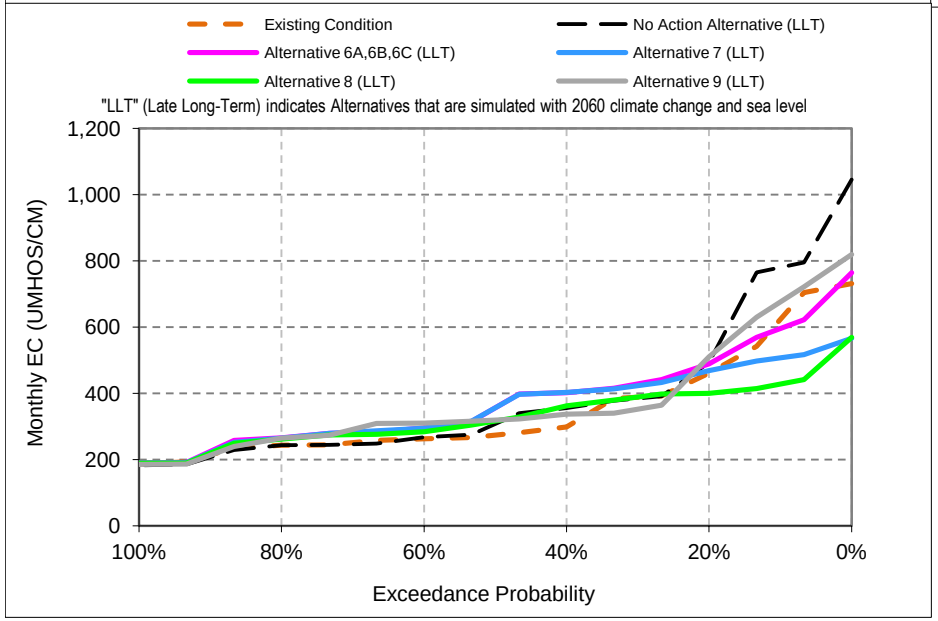
Alternative 4 Scenario Definitions:

H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

Figure C-34-1. San Joaquin River at Jersey Point, April EC



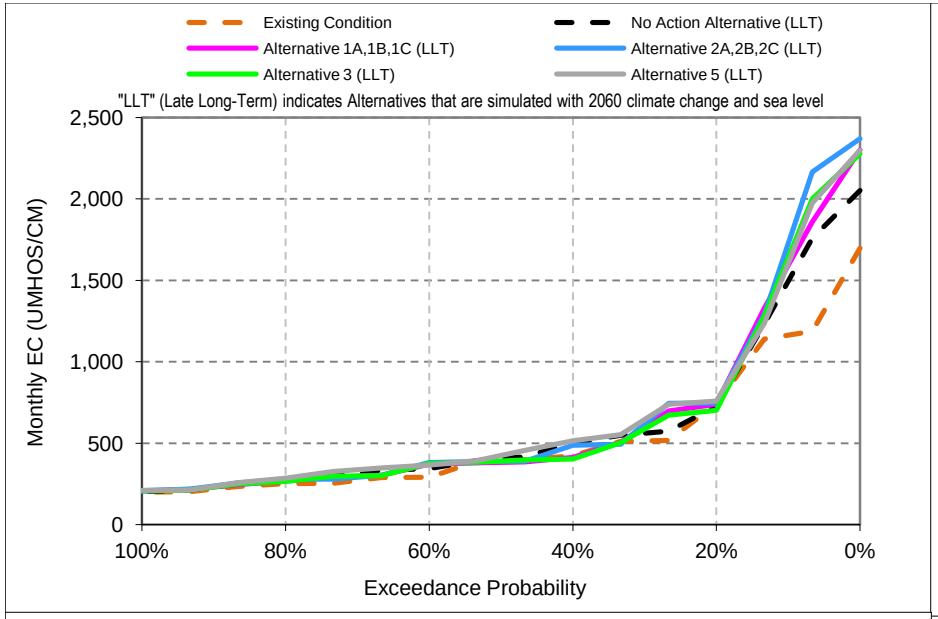


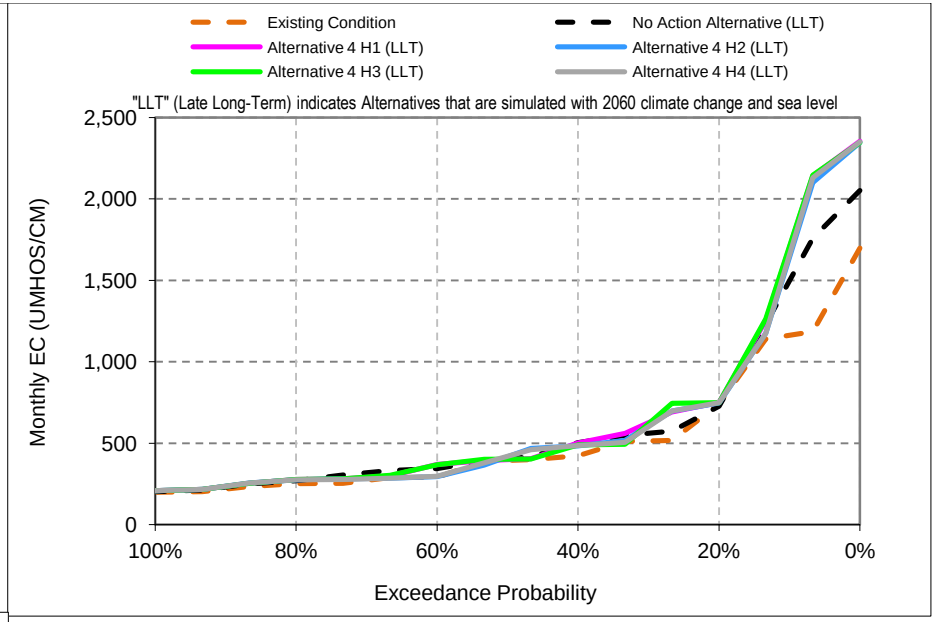


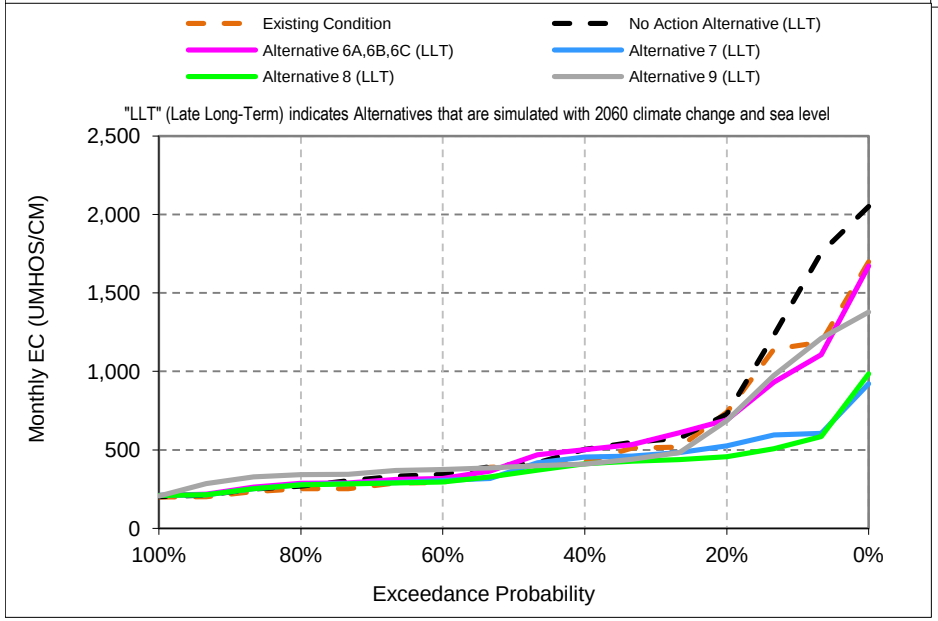
Alternative 4 Scenario Definitions:

H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

Figure C-34-2. San Joaquin River at Jersey Point, May EC



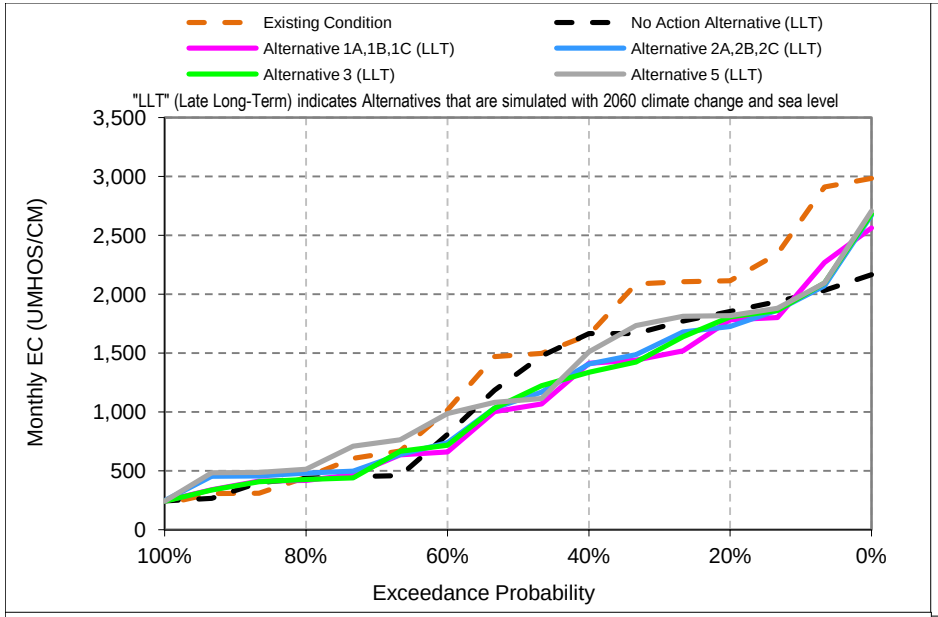


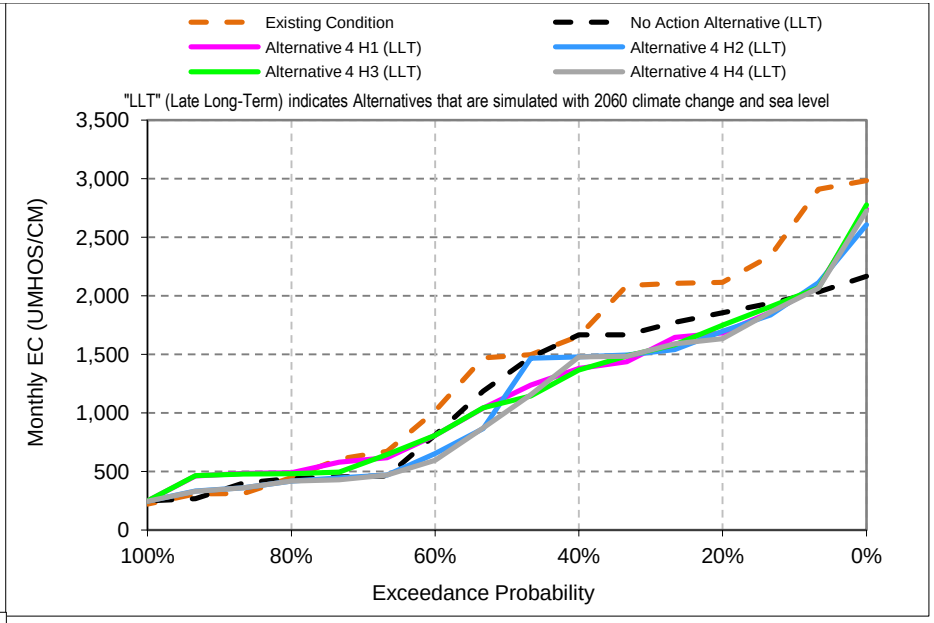


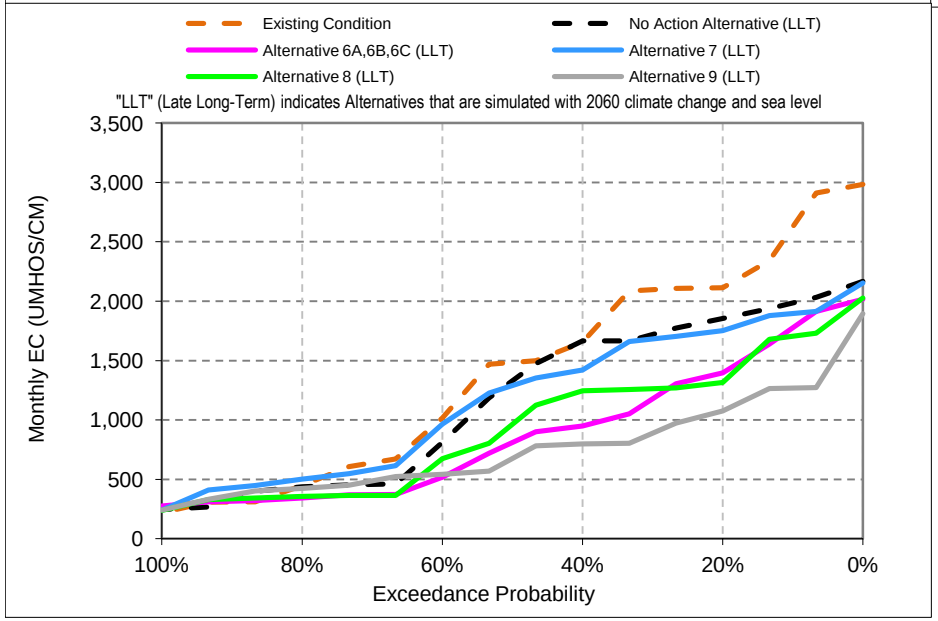
Alternative 4 Scenario Definitions:

H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

Figure C-34-3. San Joaquin River at Jersey Point, June EC



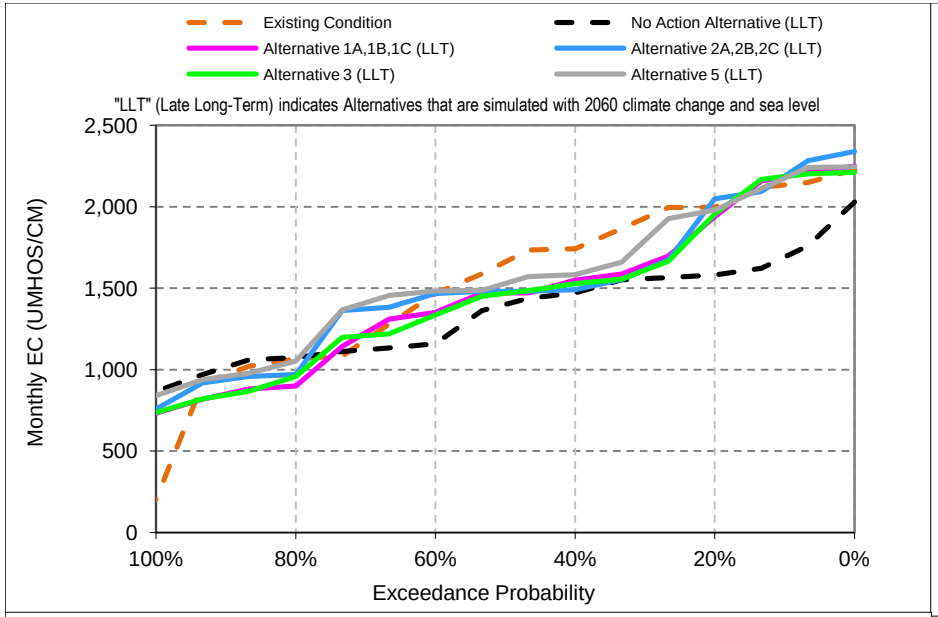


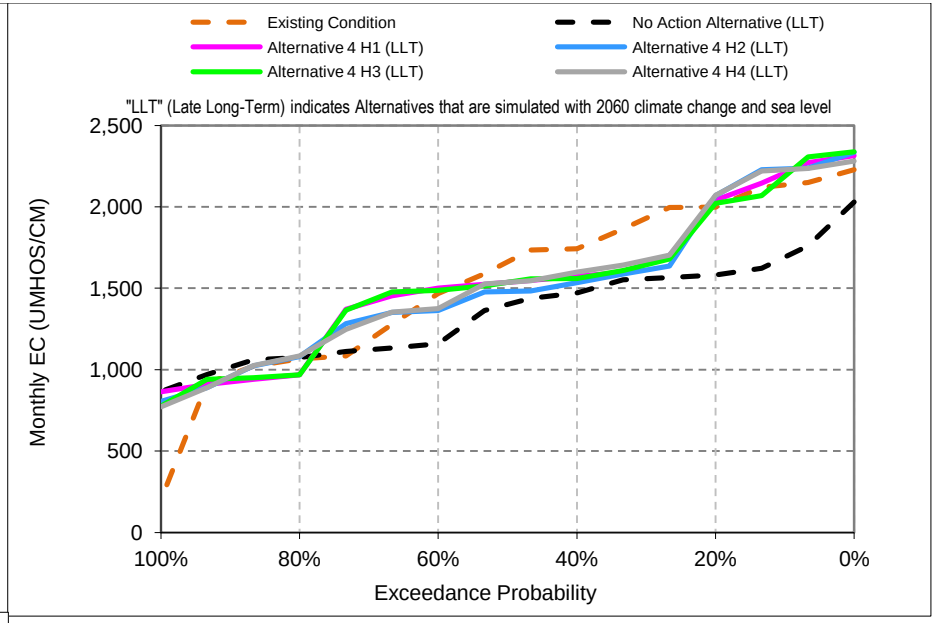


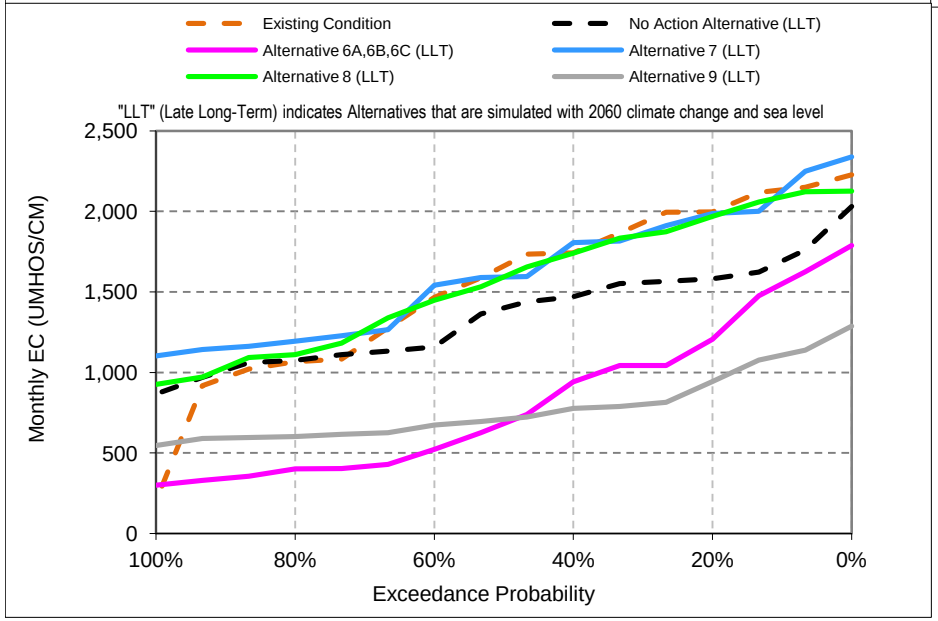
Alternative 4 Scenario Definitions:

H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

Figure C-34-4. San Joaquin River at Jersey Point, July EC







Alternative 4 Scenario Definitions:

H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

Figure C-34-5. San Joaquin River at Jersey Point, August EC

Table C-34-1. San Joaquin River at Jersey Point, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,677	3,141	2,602	1,341	862	409	342	623	1,164	2,626	2,134	2,557
20%	2,491	2,810	2,416	1,325	756	362	283	461	740	2,114	1,997	2,475
30%	2,380	2,656	2,329	1,247	469	287	274	388	515	2,097	1,930	2,418
40%	2,255	2,630	2,113	1,183	334	265	270	298	424	1,655	1,743	2,349
50%	2,136	2,529	1,985	867	298	262	246	274	394	1,484	1,661	2,322
60%	2,056	2,372	1,705	533	270	259	241	262	292	1,017	1,467	2,233
70%	2,009	2,037	1,406	381	263	241	233	251	271	638	1,181	2,136
80%	1,618	1,649	284	318	250	239	230	243	252	448	1,066	1,994
90%	554	622	237	264	235	224	215	213	218	309	969	1,158
Long Term												
Full Simulation Period[a]	1,951	2,204	1,669	861	452	299	272	355	545	1,422	1,528	2,066
Water Year Types[b]												
Wet (31%)	1,349	1,630	597	361	240	236	223	222	237	452	843	1,242
Above Normal (25%)	2,547	2,676	2,420	459	274	252	258	251	243	378	1,098	1,972
Below Normal (6%)	2,255	2,630	2,416	1,338	334	240	241	262	290	1,017	1,467	2,639
Dry (13%)	1,947	2,625	1,938	1,009	468	256	242	301	431	1,677	1,733	2,383
Critical (25%)	2,136	2,051	1,861	1,209	704	414	346	564	1,057	2,491	2,098	2,395

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,267	2,876	2,362	1,459	1,013	502	442	780	1,495	1,985	1,691	2,903
20%	2,013	2,682	2,247	1,238	631	417	363	492	728	1,854	1,581	2,717
30%	1,967	2,353	1,934	1,192	460	338	291	384	561	1,720	1,559	2,572
40%	1,700	2,098	1,554	1,100	415	309	278	356	503	1,667	1,471	2,468
50%	1,565	1,912	1,483	760	327	267	258	307	406	1,331	1,401	2,391
60%	536	661	1,266	660	303	256	237	267	344	811	1,159	2,172
70%	320	483	880	490	261	240	229	246	318	457	1,122	953
80%	260	264	429	334	250	234	219	243	270	438	1,074	784
90%	255	223	271	253	228	226	209	207	231	334	1,015	624
Long Term												
Full Simulation Period[a]	1,262	1,561	1,435	846	488	333	299	402	633	1,177	1,360	1,915
Water Year Types[b]												
Wet (31%)	1,111	1,453	559	346	230	230	215	221	273	357	1,005	658
Above Normal (25%)	1,926	2,530	2,642	449	261	239	247	238	277	419	1,110	872
Below Normal (6%)	536	574	1,472	1,235	350	243	236	267	270	1,186	1,552	2,919
Dry (13%)	642	1,172	1,284	1,095	544	291	257	329	466	1,452	1,417	2,462
Critical (25%)	1,758	1,767	1,767	1,127	769	504	435	697	1,269	1,915	1,660	2,698

No Action Alternative (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-410	-264	-241	**118**	**151**	**94**	**101**	**157**	**332**	-641	-443	**346**
20%	-478	-128	-169	-87	-125	**55**	**80**	**31**	-12	-259	-416	**242**
30%	-413	-303	-395	-55	-10	**52**	**17**	-4	**46**	-377	-372	**154**
40%	-555	-532	-559	-83	**81**	**44**	**8**	**58**	**80**	**12**	-272	**119**
50%	-571	-617	-502	-107	**29**	**5**	**12**	**33**	**12**	-153	-260	**70**
60%	-1,519	-1,711	-439	**127**	**33**	-4	-4	**5**	**52**	-206	-308	-61
70%	-1,689	-1,554	-526	**110**	-3	-1	-4	-5	**47**	-182	-59	-1,183
80%	-1,358	-1,384	**146**	**16**	0	-4	-12	**0**	**18**	-10	**8**	-1,209
90%	-299	-400	**34**	-11	-7	**2**	-5	-6	**13**	**24**	**46**	-534
Long Term												
Full Simulation Period[a]	-689	-643	-234	-15	**36**	**34**	**28**	**47**	**87**	-244	-169	-151
Water Year Types[b]												
Wet (31%)	-238	-176	-38	-14	-10	-6	-8	-1	**36**	-95	**162**	-584
Above Normal (25%)	-621	-146	**222**	-9	-14	-13	-11	-13	**35**	**41**	**12**	-1,100
Below Normal (6%)	-1,719	-2,056	-944	-104	**16**	**2**	-5	**5**	-20	**170**	**85**	**280**
Dry (13%)	-1,304	-1,454	-654	**87**	**76**	**35**	**16**	**28**	**35**	-225	-316	**79**
Critical (25%)	-377	-284	-94	-82	**65**	**90**	**88**	**133**	**212**	-576	-438	**303**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

Table C-34-2. San Joaquin River at Jersey Point, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,677	3,141	2,602	1,341	862	409	342	623	1,164	2,626	2,134	2,557
20%	2,491	2,810	2,416	1,325	756	362	283	461	740	2,114	1,997	2,475
30%	2,380	2,656	2,329	1,247	469	287	274	388	515	2,097	1,930	2,418
40%	2,255	2,630	2,113	1,183	334	265	270	298	424	1,655	1,743	2,349
50%	2,136	2,529	1,985	867	298	262	246	274	394	1,484	1,661	2,322
60%	2,056	2,372	1,705	533	270	259	241	262	292	1,017	1,467	2,233
70%	2,009	2,037	1,406	381	263	241	233	251	271	638	1,181	2,136
80%	1,618	1,649	284	318	250	239	230	243	252	448	1,066	1,994
90%	554	622	237	264	235	224	215	213	218	309	969	1,158
Long Term												
Full Simulation Period[a]	1,951	2,204	1,669	861	452	299	272	355	545	1,422	1,528	2,066
Water Year Types[b]												
Wet (31%)	1,349	1,630	597	361	240	236	223	222	237	452	843	1,242
Above Normal (25%)	2,547	2,676	2,420	459	274	252	258	251	243	378	1,098	1,972
Below Normal (6%)	2,255	2,630	2,416	1,338	334	240	241	262	290	1,017	1,467	2,639
Dry (13%)	1,947	2,625	1,938	1,009	468	256	242	301	431	1,677	1,733	2,383
Critical (25%)	2,136	2,051	1,861	1,209	704	414	346	564	1,057	2,491	2,098	2,395

Alternative 1A,1B,1C (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,118	2,368	2,161	1,122	692	498	449	849	1,594	2,036	2,187	2,696
20%	1,905	2,169	1,990	1,068	625	394	371	493	739	1,784	1,940	2,406
30%	1,769	2,017	1,922	1,018	535	348	349	350	601	1,480	1,642	2,297
40%	1,642	1,859	1,844	941	445	338	288	334	414	1,413	1,550	2,253
50%	1,597	1,561	1,537	917	406	337	277	323	382	1,036	1,471	2,209
60%	1,385	1,358	1,350	765	310	330	254	289	372	661	1,351	2,165
70%	1,295	878	1,256	504	306	282	253	262	297	553	1,227	2,013
80%	1,199	639	675	434	303	266	247	253	267	419	899	1,748
90%	820	363	283	303	265	234	214	217	232	379	851	1,515
Long Term												
Full Simulation Period[a]	1,485	1,482	1,428	785	454	345	313	407	657	1,128	1,467	2,085
Water Year Types[b]												
Wet (31%)	1,047	1,123	491	480	280	255	228	239	274	387	940	1,839
Above Normal (25%)	1,552	1,858	2,051	493	337	312	297	249	275	489	1,013	2,221
Below Normal (6%)	1,250	806	2,015	1,376	445	338	281	289	267	661	1,472	2,872
Dry (13%)	1,885	2,066	1,704	906	509	320	267	316	419	1,317	1,517	2,165
Critical (25%)	1,534	1,287	1,592	930	598	450	430	699	1,385	1,919	2,030	2,007

Alternative 1A,1B,1C (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-559	-773	-441	-219	-169	**89**	**108**	**226**	**430**	-590	**53**	**139**
20%	-586	-641	-426	-257	-131	**32**	**89**	**32**	-1	-330	-58	-69
30%	-611	-639	-407	-229	**66**	**62**	**76**	-39	**87**	-616	-289	-121
40%	-613	-771	-268	-242	**111**	**73**	**18**	**37**	-10	-242	-193	-96
50%	-539	-968	-448	**49**	**108**	**75**	**31**	**49**	-12	-447	-190	-112
60%	-671	-1,014	-355	**232**	**40**	**71**	**14**	**27**	**80**	-355	-116	-68
70%	-714	-1,159	-150	**124**	**43**	**41**	**20**	**11**	**26**	-86	**46**	-123
80%	-419	-1,010	**391**	**116**	**53**	**27**	**17**	**11**	**15**	-29	-167	-246
90%	**266**	-259	**46**	**40**	**30**	**11**	-1	**4**	**14**	**69**	-119	**357**
Long Term												
Full Simulation Period[a]	-466	-722	-240	-76	**2**	**46**	**41**	**52**	**112**	-293	-61	**19**
Water Year Types[b]												
Wet (31%)	-302	-507	-106	**119**	**40**	**19**	**5**	**17**	**37**	-65	**97**	**597**
Above Normal (25%)	-995	-817	-369	**34**	**63**	**61**	**39**	-2	**32**	**111**	-85	**249**
Below Normal (6%)	-1,005	-1,824	-401	**38**	**111**	**98**	**40**	**27**	-23	-355	**5**	**233**
Dry (13%)	-62	-560	-234	-102	**41**	**64**	**25**	**15**	-12	-360	-216	-219
Critical (25%)	-601	-764	-269	-279	-106	**37**	**84**	**134**	**328**	-572	-68	-387

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-34-3. San Joaquin River at Jersey Point, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,677	3,141	2,602	1,341	862	409	342	623	1,164	2,626	2,134	2,557
20%	2,491	2,810	2,416	1,325	756	362	283	461	740	2,114	1,997	2,475
30%	2,380	2,656	2,329	1,247	469	287	274	388	515	2,097	1,930	2,418
40%	2,255	2,630	2,113	1,183	334	265	270	298	424	1,655	1,743	2,349
50%	2,136	2,529	1,985	867	298	262	246	274	394	1,484	1,661	2,322
60%	2,056	2,372	1,705	533	270	259	241	262	292	1,017	1,467	2,233
70%	2,009	2,037	1,406	381	263	241	233	251	271	638	1,181	2,136
80%	1,618	1,649	284	318	250	239	230	243	252	448	1,066	1,994
90%	554	622	237	264	235	224	215	213	218	309	969	1,158
Long Term												
Full Simulation Period[a]	1,951	2,204	1,669	861	452	299	272	355	545	1,422	1,528	2,066
Water Year Types[b]												
Wet (31%)	1,349	1,630	597	361	240	236	223	222	237	452	843	1,242
Above Normal (25%)	2,547	2,676	2,420	459	274	252	258	251	243	378	1,098	1,972
Below Normal (6%)	2,255	2,630	2,416	1,338	334	240	241	262	290	1,017	1,467	2,639
Dry (13%)	1,947	2,625	1,938	1,009	468	256	242	301	431	1,677	1,733	2,383
Critical (25%)	2,136	2,051	1,861	1,209	704	414	346	564	1,057	2,491	2,098	2,395

Alternative 2A,2B,2C (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,676	2,437	1,930	948	592	438	386	840	1,728	1,969	2,188	2,785
20%	1,449	1,530	1,690	833	444	387	373	480	747	1,728	2,049	2,587
30%	1,351	1,306	1,460	702	417	369	362	360	619	1,583	1,613	2,139
40%	1,230	1,081	1,133	633	386	354	298	335	487	1,409	1,491	2,067
50%	1,043	862	1,002	523	327	298	289	312	389	1,102	1,481	1,784
60%	382	431	895	444	293	278	270	286	381	741	1,468	1,730
70%	291	319	543	373	281	270	264	270	292	569	1,373	644
80%	271	293	289	313	270	252	255	262	279	482	969	494
90%	259	256	241	271	262	235	219	221	237	456	939	427
Long Term												
Full Simulation Period[a]	947	1,064	1,047	583	383	327	313	411	688	1,165	1,517	1,608
Water Year Types[b]												
Wet (31%)	650	851	410	328	276	257	232	232	278	411	1,008	437
Above Normal (25%)	1,518	1,905	1,568	408	338	314	303	259	268	620	1,224	644
Below Normal (6%)	382	332	1,133	947	386	306	267	292	279	639	1,468	2,819
Dry (13%)	599	1,009	787	559	403	293	287	326	440	1,323	1,518	2,349
Critical (25%)	1,346	1,088	1,540	803	471	420	411	706	1,464	1,964	2,049	2,094

Alternative 2A,2B,2C (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,001	-704	-672	-393	-270	**29**	**44**	**217**	**564**	-658	**54**	**229**
20%	-1,042	-1,280	-726	-493	-312	**26**	**91**	**19**	**7**	-386	**52**	**113**
30%	-1,029	-1,350	-869	-545	-52	**82**	**88**	-28	**104**	-513	-317	-280
40%	-1,026	-1,549	-980	-550	**52**	**89**	**27**	**37**	**63**	-246	-252	-282
50%	-1,092	-1,667	-982	-344	**30**	**36**	**43**	**38**	-5	-382	-181	-537
60%	-1,674	-1,941	-810	-88	**23**	**19**	**30**	**24**	**89**	-276	**1**	-504
70%	-1,718	-1,718	-863	-7	**17**	**29**	**31**	**19**	**20**	-70	**192**	-1,492
80%	-1,347	-1,356	**6**	-5	**20**	**14**	**25**	**19**	**27**	**35**	-97	-1,500
90%	-296	-366	**4**	**7**	**27**	**11**	**5**	**8**	**19**	**147**	-31	-731
Long Term												
Full Simulation Period[a]	-1,004	-1,140	-622	-278	-69	**28**	**41**	**56**	**142**	-257	-12	-458
Water Year Types[b]												
Wet (31%)	-699	-779	-187	-33	**37**	**20**	**9**	**10**	**41**	-41	**164**	-805
Above Normal (25%)	-1,029	-770	-852	-51	**63**	**63**	**45**	**8**	**25**	**242**	**126**	-1,328
Below Normal (6%)	-1,873	-2,298	-1,283	-391	**52**	**66**	**27**	**30**	-11	-378	**1**	**180**
Dry (13%)	-1,347	-1,617	-1,151	-449	-65	**37**	**45**	**25**	**9**	-354	-215	-34
Critical (25%)	-789	-963	-321	-406	-233	**6**	**64**	**142**	**407**	-527	-48	-300

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-34-4. San Joaquin River at Jersey Point, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,677	3,141	2,602	1,341	862	409	342	623	1,164	2,626	2,134	2,557
20%	2,491	2,810	2,416	1,325	756	362	283	461	740	2,114	1,997	2,475
30%	2,380	2,656	2,329	1,247	469	287	274	388	515	2,097	1,930	2,418
40%	2,255	2,630	2,113	1,183	334	265	270	298	424	1,655	1,743	2,349
50%	2,136	2,529	1,985	867	298	262	246	274	394	1,484	1,661	2,322
60%	2,056	2,372	1,705	533	270	259	241	262	292	1,017	1,467	2,233
70%	2,009	2,037	1,406	381	263	241	233	251	271	638	1,181	2,136
80%	1,618	1,649	284	318	250	239	230	243	252	448	1,066	1,994
90%	554	622	237	264	235	224	215	213	218	309	969	1,158
Long Term												
Full Simulation Period[a]	1,951	2,204	1,669	861	452	299	272	355	545	1,422	1,528	2,066
Water Year Types[b]												
Wet (31%)	1,349	1,630	597	361	240	236	223	222	237	452	843	1,242
Above Normal (25%)	2,547	2,676	2,420	459	274	252	258	251	243	378	1,098	1,972
Below Normal (6%)	2,255	2,630	2,416	1,338	334	240	241	262	290	1,017	1,467	2,639
Dry (13%)	1,947	2,625	1,938	1,009	468	256	242	301	431	1,677	1,733	2,383
Critical (25%)	2,136	2,051	1,861	1,209	704	414	346	564	1,057	2,491	2,098	2,395

Alternative 3 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,203	2,439	2,108	1,205	619	499	448	863	1,641	1,979	2,185	2,702
20%	2,132	2,231	2,028	1,096	591	348	364	489	701	1,809	1,954	2,454
30%	1,862	2,052	1,994	981	563	337	337	352	588	1,532	1,610	2,327
40%	1,521	1,731	1,904	921	431	324	288	331	404	1,338	1,528	2,264
50%	1,438	1,449	1,747	846	358	316	272	323	390	1,130	1,468	2,230
60%	1,341	1,032	1,374	698	289	294	253	287	375	717	1,337	2,082
70%	1,248	898	1,147	431	276	268	243	261	299	554	1,209	1,948
80%	1,079	645	682	391	254	259	236	257	266	427	958	1,817
90%	792	361	258	262	246	230	214	217	232	374	845	1,682
Long Term												
Full Simulation Period[a]	1,484	1,432	1,435	764	415	332	310	416	658	1,147	1,460	2,114
Water Year Types[b]												
Wet (31%)	941	1,222	484	363	246	248	225	238	275	380	934	1,821
Above Normal (25%)	1,712	1,633	1,798	431	276	262	277	254	276	528	1,033	2,280
Below Normal (6%)	1,203	859	2,160	1,440	431	314	275	287	266	667	1,452	2,950
Dry (13%)	1,925	2,046	1,707	968	512	308	261	315	420	1,352	1,504	2,216
Critical (25%)	1,532	1,141	1,688	920	526	449	437	728	1,387	1,941	2,018	2,032

Alternative 3 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-473	-702	-494	-136	-242	**90**	**107**	**240**	**477**	-647	**51**	**145**
20%	-359	-579	-388	-229	-165	-14	**81**	**28**	-39	-305	-43	-21
30%	-517	-603	-335	-265	**94**	**50**	**64**	-36	**74**	-564	-320	-91
40%	-734	-899	-209	-262	**97**	**59**	**18**	**33**	-20	-317	-215	-85
50%	-698	-1,080	-238	-21	**60**	**54**	**26**	**49**	-3	-354	-193	-92
60%	-715	-1,340	-331	**166**	**19**	**35**	**13**	**25**	**83**	-299	-130	-151
70%	-761	-1,139	-259	**50**	**12**	**27**	**10**	**10**	**28**	-85	**28**	-187
80%	-539	-1,003	**399**	**73**	**3**	**20**	**5**	**14**	**14**	-21	-108	-177
90%	**238**	-262	**21**	-1	**11**	**6**	0	**4**	**14**	**65**	-124	**524**
Long Term												
Full Simulation Period[a]	-466	-772	-234	-97	-37	**33**	**38**	**61**	**113**	-274	-68	**48**
Water Year Types[b]												
Wet (31%)	-408	-408	-113	**2**	**6**	**12**	**2**	**16**	**39**	-72	**91**	**579**
Above Normal (25%)	-835	-1,043	-622	-28	**2**	**11**	**20**	**3**	**33**	**150**	-65	**308**
Below Normal (6%)	-1,052	-1,771	-256	**102**	**97**	**73**	**35**	**25**	-24	-350	-15	**311**
Dry (13%)	-22	-579	-231	-40	**44**	**52**	**19**	**14**	-11	-326	-229	-167
Critical (25%)	-604	-910	-173	-289	-178	**35**	**91**	**164**	**330**	-550	-79	-363

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-34-5. San Joaquin River at Jersey Point, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,677	3,141	2,602	1,341	862	409	342	623	1,164	2,626	2,134	2,557
20%	2,491	2,810	2,416	1,325	756	362	283	461	740	2,114	1,997	2,475
30%	2,380	2,656	2,329	1,247	469	287	274	388	515	2,097	1,930	2,418
40%	2,255	2,630	2,113	1,183	334	265	270	298	424	1,655	1,743	2,349
50%	2,136	2,529	1,985	867	298	262	246	274	394	1,484	1,661	2,322
60%	2,056	2,372	1,705	533	270	259	241	262	292	1,017	1,467	2,233
70%	2,009	2,037	1,406	381	263	241	233	251	271	638	1,181	2,136
80%	1,618	1,649	284	318	250	239	230	243	252	448	1,066	1,994
90%	554	622	237	264	235	224	215	213	218	309	969	1,158
Long Term												
Full Simulation Period[a]	1,951	2,204	1,669	861	452	299	272	355	545	1,422	1,528	2,066
Water Year Types[b]												
Wet (31%)	1,349	1,630	597	361	240	236	223	222	237	452	843	1,242
Above Normal (25%)	2,547	2,676	2,420	459	274	252	258	251	243	378	1,098	1,972
Below Normal (6%)	2,255	2,630	2,416	1,338	334	240	241	262	290	1,017	1,467	2,639
Dry (13%)	1,947	2,625	1,938	1,009	468	256	242	301	431	1,677	1,733	2,383
Critical (25%)	2,136	2,051	1,861	1,209	704	414	346	564	1,057	2,491	2,098	2,395

Alternative 4 H1 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,663	2,553	1,933	1,191	584	432	391	827	1,697	1,969	2,208	2,783
20%	1,514	1,494	1,763	868	425	368	368	482	751	1,682	2,041	2,509
30%	1,392	1,340	1,678	802	413	349	356	377	626	1,541	1,649	2,461
40%	1,293	1,206	1,537	748	403	337	295	334	501	1,379	1,574	2,294
50%	1,282	1,171	1,493	598	309	303	288	314	399	1,138	1,537	2,246
60%	1,272	1,119	1,454	415	294	281	274	285	369	807	1,500	2,129
70%	1,236	938	977	362	276	270	257	264	291	597	1,412	2,025
80%	1,129	848	290	289	254	264	251	260	277	489	968	1,773
90%	765	502	233	252	252	234	220	222	235	472	925	1,687
Long Term												
Full Simulation Period[a]	1,266	1,312	1,280	641	394	322	310	408	685	1,174	1,545	2,149
Water Year Types[b]												
Wet (31%)	767	786	389	307	252	253	231	231	273	443	1,084	1,941
Above Normal (25%)	1,526	1,929	1,609	385	296	295	300	260	268	648	1,221	2,340
Below Normal (6%)	1,129	891	2,077	1,258	413	306	274	295	277	617	1,453	2,812
Dry (13%)	1,387	1,633	1,491	725	433	294	281	329	465	1,334	1,543	2,189
Critical (25%)	1,492	1,314	1,535	821	512	414	409	694	1,439	1,952	2,064	2,073

Alternative 4 H1 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,014	-588	-670	-150	-277	**24**	**50**	**205**	**534**	-657	**74**	**226**
20%	-977	-1,316	-653	-457	-331	**7**	**85**	**21**	**10**	-432	**43**	**34**
30%	-987	-1,316	-651	-444	-57	**62**	**82**	-12	**111**	-556	-282	**43**
40%	-962	-1,424	-576	-435	**70**	**72**	**25**	**36**	**77**	-276	-169	-55
50%	-854	-1,358	-491	-269	**11**	**40**	**42**	**40**	**6**	-345	-124	-76
60%	-784	-1,253	-251	-117	**24**	**22**	**34**	**23**	**77**	-209	**33**	-104
70%	-772	-1,099	-429	-19	**13**	**29**	**25**	**13**	**19**	-41	**231**	-111
80%	-489	-801	**6**	-29	**4**	**26**	**21**	**17**	**26**	**41**	-99	-220
90%	**211**	-120	-4	-12	**17**	**10**	**5**	**9**	**17**	**163**	-44	**529**
Long Term												
Full Simulation Period[a]	-684	-892	-388	-220	-58	**24**	**39**	**53**	**140**	-248	**17**	**83**
Water Year Types[b]												
Wet (31%)	-582	-844	-208	-54	**13**	**17**	**8**	**9**	**37**	-9	**241**	**699**
Above Normal (25%)	-1,021	-746	-811	-74	**22**	**44**	**42**	**9**	**26**	**270**	**123**	**368**
Below Normal (6%)	-1,126	-1,739	-339	-80	**79**	**65**	**34**	**33**	-12	-400	-14	**173**
Dry (13%)	-559	-993	-447	-284	-34	**38**	**39**	**28**	**34**	-343	-190	-194
Critical (25%)	-643	-737	-326	-388	-193	**1**	**62**	**130**	**382**	-539	-33	-321

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-34-6. San Joaquin River at Jersey Point, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,677	3,141	2,602	1,341	862	409	342	623	1,164	2,626	2,134	2,557
20%	2,491	2,810	2,416	1,325	756	362	283	461	740	2,114	1,997	2,475
30%	2,380	2,656	2,329	1,247	469	287	274	388	515	2,097	1,930	2,418
40%	2,255	2,630	2,113	1,183	334	265	270	298	424	1,655	1,743	2,349
50%	2,136	2,529	1,985	867	298	262	246	274	394	1,484	1,661	2,322
60%	2,056	2,372	1,705	533	270	259	241	262	292	1,017	1,467	2,233
70%	2,009	2,037	1,406	381	263	241	233	251	271	638	1,181	2,136
80%	1,618	1,649	284	318	250	239	230	243	252	448	1,066	1,994
90%	554	622	237	264	235	224	215	213	218	309	969	1,158
Long Term												
Full Simulation Period[a]	1,951	2,204	1,669	861	452	299	272	355	545	1,422	1,528	2,066
Water Year Types[b]												
Wet (31%)	1,349	1,630	597	361	240	236	223	222	237	452	843	1,242
Above Normal (25%)	2,547	2,676	2,420	459	274	252	258	251	243	378	1,098	1,972
Below Normal (6%)	2,255	2,630	2,416	1,338	334	240	241	262	290	1,017	1,467	2,639
Dry (13%)	1,947	2,625	1,938	1,009	468	256	242	301	431	1,677	1,733	2,383
Critical (25%)	2,136	2,051	1,861	1,209	704	414	346	564	1,057	2,491	2,098	2,395

Alternative 4 H2 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,727	2,543	1,904	1,005	568	422	369	804	1,638	1,975	2,232	2,767
20%	1,510	1,980	1,781	903	444	362	363	464	746	1,697	2,070	2,517
30%	1,404	1,480	1,687	884	434	354	349	372	608	1,518	1,612	2,420
40%	1,349	1,103	1,612	820	372	348	316	360	483	1,476	1,534	2,235
50%	1,305	1,051	1,514	624	326	296	293	321	416	1,166	1,480	2,100
60%	1,274	982	1,369	424	290	285	270	275	296	652	1,364	2,010
70%	1,258	920	958	345	276	268	259	263	283	458	1,317	1,956
80%	1,245	862	285	289	263	263	250	258	276	417	1,081	1,859
90%	643	454	225	251	253	234	217	222	236	347	957	1,722
Long Term												
Full Simulation Period[a]	1,261	1,327	1,259	623	385	321	308	405	670	1,126	1,524	2,115
Water Year Types[b]												
Wet (31%)	838	756	399	314	255	254	229	226	252	360	1,035	1,637
Above Normal (25%)	1,550	1,930	1,603	381	311	304	298	256	266	415	1,188	2,166
Below Normal (6%)	1,670	1,980	1,524	772	372	288	270	298	281	652	1,483	2,802
Dry (13%)	1,245	1,531	1,454	772	460	299	291	341	458	1,342	1,510	2,407
Critical (25%)	1,416	1,250	1,599	819	461	405	398	681	1,414	1,946	2,069	2,106

Alternative 4 H2 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-950	-597	-698	-336	-293	**13**	**27**	**182**	**474**	-651	**98**	**210**
20%	-981	-830	-635	-422	-312	**0**	**81**	**3**	**6**	-416	**72**	**42**
30%	-975	-1,176	-642	-362	-36	**67**	**75**	-16	**93**	-579	-319	**2**
40%	-906	-1,527	-500	-363	**38**	**83**	**46**	**62**	**59**	-178	-209	-114
50%	-831	-1,478	-471	-243	**29**	**33**	**47**	**47**	**23**	-317	-181	-221
60%	-781	-1,390	-336	-109	**20**	**26**	**30**	**13**	**4**	-365	-103	-223
70%	-751	-1,117	-448	-35	**12**	**27**	**26**	**12**	**12**	-181	**136**	-180
80%	-373	-786	**1**	-29	**13**	**25**	**20**	**15**	**24**	-31	**14**	-134
90%	**88**	-168	-12	-12	**18**	**10**	**3**	**8**	**18**	**37**	-13	**564**
Long Term												
Full Simulation Period[a]	-689	-876	-410	-238	-67	**22**	**37**	**50**	**124**	-295	-4	**49**
Water Year Types[b]												
Wet (31%)	-512	-874	-198	-47	**15**	**18**	**6**	**4**	**15**	-92	**192**	**395**
Above Normal (25%)	-997	-745	-817	-78	**37**	**52**	**40**	**5**	**23**	**37**	**90**	**194**
Below Normal (6%)	-585	-650	-892	-566	**38**	**47**	**30**	**36**	-9	-365	**16**	**163**
Dry (13%)	-702	-1,095	-485	-237	-7	**43**	**50**	**39**	**28**	-335	-223	**23**
Critical (25%)	-720	-801	-262	-390	-243	-9	**51**	**117**	**357**	-545	-29	-289

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-34-7. San Joaquin River at Jersey Point, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,677	3,141	2,602	1,341	862	409	342	623	1,164	2,626	2,134	2,557
20%	2,491	2,810	2,416	1,325	756	362	283	461	740	2,114	1,997	2,475
30%	2,380	2,656	2,329	1,247	469	287	274	388	515	2,097	1,930	2,418
40%	2,255	2,630	2,113	1,183	334	265	270	298	424	1,655	1,743	2,349
50%	2,136	2,529	1,985	867	298	262	246	274	394	1,484	1,661	2,322
60%	2,056	2,372	1,705	533	270	259	241	262	292	1,017	1,467	2,233
70%	2,009	2,037	1,406	381	263	241	233	251	271	638	1,181	2,136
80%	1,618	1,649	284	318	250	239	230	243	252	448	1,066	1,994
90%	554	622	237	264	235	224	215	213	218	309	969	1,158
Long Term												
Full Simulation Period[a]	1,951	2,204	1,669	861	452	299	272	355	545	1,422	1,528	2,066
Water Year Types[b]												
Wet (31%)	1,349	1,630	597	361	240	236	223	222	237	452	843	1,242
Above Normal (25%)	2,547	2,676	2,420	459	274	252	258	251	243	378	1,098	1,972
Below Normal (6%)	2,255	2,630	2,416	1,338	334	240	241	262	290	1,017	1,467	2,639
Dry (13%)	1,947	2,625	1,938	1,009	468	256	242	301	431	1,677	1,733	2,383
Critical (25%)	2,136	2,051	1,861	1,209	704	414	346	564	1,057	2,491	2,098	2,395

Alternative 4 H3 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,747	2,455	1,832	791	608	435	385	838	1,705	1,987	2,187	2,700
20%	1,576	1,818	1,497	728	452	369	368	480	750	1,748	2,021	2,298
30%	1,425	1,353	1,377	688	380	353	347	362	619	1,533	1,644	2,163
40%	1,294	1,161	1,062	635	340	333	297	335	490	1,367	1,559	2,002
50%	1,107	902	915	512	304	288	289	312	402	1,094	1,537	1,863
60%	387	420	899	420	275	278	267	285	368	809	1,487	1,733
70%	290	320	541	356	267	269	257	264	292	568	1,421	677
80%	272	293	241	289	254	250	255	262	278	481	968	509
90%	262	256	232	247	253	234	219	222	235	470	946	431
Long Term												
Full Simulation Period[a]	956	1,103	987	533	370	323	309	410	684	1,171	1,539	1,590
Water Year Types[b]												
Wet (31%)	714	789	392	308	253	255	231	231	274	417	1,061	461
Above Normal (25%)	1,567	1,906	1,561	383	296	296	300	260	268	651	1,233	641
Below Normal (6%)	387	335	915	816	365	291	267	292	278	643	1,477	2,830
Dry (13%)	607	1,011	789	555	400	286	282	324	447	1,325	1,522	2,273
Critical (25%)	1,300	1,258	1,406	698	471	424	405	704	1,450	1,964	2,069	2,078

Alternative 4 H3 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-930	-686	-770	-550	-253	**26**	**44**	**215**	**541**	-639	**54**	**143**
20%	-915	-992	-919	-598	-304	**7**	**86**	**19**	**9**	-366	**24**	-177
30%	-954	-1,302	-951	-559	-89	**67**	**73**	-27	**105**	-563	-286	-255
40%	-962	-1,469	-1,051	-548	**7**	**68**	**27**	**37**	**66**	-288	-184	-346
50%	-1,028	-1,627	-1,070	-356	**6**	**26**	**43**	**38**	**8**	-390	-125	-459
60%	-1,669	-1,952	-806	-113	**5**	**18**	**27**	**23**	**76**	-208	**20**	-501
70%	-1,719	-1,717	-865	-24	**4**	**27**	**24**	**13**	**20**	-70	**240**	-1,459
80%	-1,346	-1,356	-42	-29	**4**	**11**	**24**	**19**	**26**	**33**	-98	-1,484
90%	-293	-367	-5	-17	**18**	**11**	**5**	**9**	**17**	**161**	-24	-727
Long Term												
Full Simulation Period[a]	-994	-1,101	-682	-328	-82	**24**	**38**	**55**	**139**	-251	**10**	-476
Water Year Types[b]												
Wet (31%)	-635	-841	-205	-53	**13**	**18**	**8**	**9**	**37**	-35	**218**	-781
Above Normal (25%)	-980	-769	-859	-75	**21**	**45**	**43**	**9**	**25**	**273**	**135**	-1,331
Below Normal (6%)	-1,869	-2,295	-1,501	-522	**32**	**51**	**27**	**30**	-12	-374	**10**	**190**
Dry (13%)	-1,340	-1,614	-1,150	-454	-67	**30**	**41**	**23**	**16**	-352	-210	-110
Critical (25%)	-836	-793	-455	-511	-233	**10**	**59**	**139**	**393**	-527	-29	-316

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-34-8. San Joaquin River at Jersey Point, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,677	3,141	2,602	1,341	862	409	342	623	1,164	2,626	2,134	2,557
20%	2,491	2,810	2,416	1,325	756	362	283	461	740	2,114	1,997	2,475
30%	2,380	2,656	2,329	1,247	469	287	274	388	515	2,097	1,930	2,418
40%	2,255	2,630	2,113	1,183	334	265	270	298	424	1,655	1,743	2,349
50%	2,136	2,529	1,985	867	298	262	246	274	394	1,484	1,661	2,322
60%	2,056	2,372	1,705	533	270	259	241	262	292	1,017	1,467	2,233
70%	2,009	2,037	1,406	381	263	241	233	251	271	638	1,181	2,136
80%	1,618	1,649	284	318	250	239	230	243	252	448	1,066	1,994
90%	554	622	237	264	235	224	215	213	218	309	969	1,158
Long Term												
Full Simulation Period[a]	1,951	2,204	1,669	861	452	299	272	355	545	1,422	1,528	2,066
Water Year Types[b]												
Wet (31%)	1,349	1,630	597	361	240	236	223	222	237	452	843	1,242
Above Normal (25%)	2,547	2,676	2,420	459	274	252	258	251	243	378	1,098	1,972
Below Normal (6%)	2,255	2,630	2,416	1,338	334	240	241	262	290	1,017	1,467	2,639
Dry (13%)	1,947	2,625	1,938	1,009	468	256	242	301	431	1,677	1,733	2,383
Critical (25%)	2,136	2,051	1,861	1,209	704	414	346	564	1,057	2,491	2,098	2,395

Alternative 4 H4 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,738	2,245	1,873	1,153	695	459	382	813	1,653	1,963	2,227	2,739
20%	1,471	1,566	1,810	901	503	370	368	465	749	1,632	2,070	2,304
30%	1,349	1,277	1,445	728	422	358	349	370	602	1,537	1,673	2,116
40%	1,291	898	1,074	604	330	345	307	355	486	1,478	1,599	2,030
50%	1,150	746	965	512	308	288	294	323	420	1,014	1,537	1,934
60%	361	431	797	424	276	274	269	273	297	593	1,375	1,832
70%	295	319	538	349	273	266	256	263	281	449	1,300	627
80%	271	294	242	289	262	250	250	258	276	417	1,083	556
90%	259	255	224	259	254	234	217	221	236	345	958	460
Long Term												
Full Simulation Period[a]	967	1,009	1,019	614	402	327	312	406	672	1,106	1,536	1,617
Water Year Types[b]												
Wet (31%)	720	686	390	316	258	254	229	226	252	355	1,068	467
Above Normal (25%)	1,627	1,855	1,580	381	303	300	298	256	266	415	1,189	621
Below Normal (6%)	361	329	1,074	901	373	290	269	296	277	593	1,375	2,925
Dry (13%)	594	962	769	559	408	284	288	341	458	1,275	1,524	2,495
Critical (25%)	1,320	1,101	1,486	933	557	439	413	683	1,421	1,952	2,090	1,972

Alternative 4 H4 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-939	-896	-729	-188	-166	**50**	**40**	**190**	**489**	-663	**94**	**182**
20%	-1,020	-1,244	-606	-424	-253	**8**	**85**	**4**	**9**	-481	**73**	-171
30%	-1,031	-1,379	-884	-519	-47	**71**	**76**	-19	**87**	-560	-257	-303
40%	-965	-1,732	-1,039	-579	-3	**80**	**37**	**58**	**62**	-177	-144	-319
50%	-986	-1,783	-1,020	-355	**10**	**25**	**48**	**49**	**26**	-470	-125	-387
60%	-1,695	-1,941	-908	-108	**6**	**15**	**28**	**11**	**5**	-423	-91	-401
70%	-1,714	-1,718	-868	-32	**10**	**25**	**23**	**12**	**9**	-190	**119**	-1,508
80%	-1,347	-1,355	-41	-29	**11**	**11**	**20**	**16**	**24**	-31	**17**	-1,438
90%	-296	-368	-13	-4	**19**	**11**	**2**	**8**	**18**	**36**	-12	-698
Long Term												
Full Simulation Period[a]	-984	-1,195	-650	-247	-50	**28**	**41**	**51**	**126**	-315	**7**	-449
Water Year Types[b]												
Wet (31%)	-629	-943	-206	-44	**19**	**18**	**6**	**4**	**15**	-97	**225**	-775
Above Normal (25%)	-920	-820	-839	-77	**29**	**49**	**40**	**5**	**23**	**37**	**91**	-1,351
Below Normal (6%)	-1,895	-2,301	-1,342	-437	**39**	**50**	**28**	**34**	-13	-423	-91	**285**
Dry (13%)	-1,353	-1,664	-1,169	-450	-60	**28**	**46**	**39**	**27**	-402	-208	**112**
Critical (25%)	-815	-950	-375	-276	-148	**25**	**66**	**119**	**364**	-539	-8	-423

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-34-9. San Joaquin River at Jersey Point, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,677	3,141	2,602	1,341	862	409	342	623	1,164	2,626	2,134	2,557
20%	2,491	2,810	2,416	1,325	756	362	283	461	740	2,114	1,997	2,475
30%	2,380	2,656	2,329	1,247	469	287	274	388	515	2,097	1,930	2,418
40%	2,255	2,630	2,113	1,183	334	265	270	298	424	1,655	1,743	2,349
50%	2,136	2,529	1,985	867	298	262	246	274	394	1,484	1,661	2,322
60%	2,056	2,372	1,705	533	270	259	241	262	292	1,017	1,467	2,233
70%	2,009	2,037	1,406	381	263	241	233	251	271	638	1,181	2,136
80%	1,618	1,649	284	318	250	239	230	243	252	448	1,066	1,994
90%	554	622	237	264	235	224	215	213	218	309	969	1,158
Long Term												
Full Simulation Period[a]	1,951	2,204	1,669	861	452	299	272	355	545	1,422	1,528	2,066
Water Year Types[b]												
Wet (31%)	1,349	1,630	597	361	240	236	223	222	237	452	843	1,242
Above Normal (25%)	2,547	2,676	2,420	459	274	252	258	251	243	378	1,098	1,972
Below Normal (6%)	2,255	2,630	2,416	1,338	334	240	241	262	290	1,017	1,467	2,639
Dry (13%)	1,947	2,625	1,938	1,009	468	256	242	301	431	1,677	1,733	2,383
Critical (25%)	2,136	2,051	1,861	1,209	704	414	346	564	1,057	2,491	2,098	2,395

Alternative 5 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,235	2,556	1,957	1,295	687	481	424	772	1,606	1,989	2,177	2,601
20%	1,976	2,012	1,831	1,143	585	368	353	472	758	1,820	1,980	2,500
30%	1,884	1,888	1,660	1,073	463	350	308	354	646	1,773	1,794	2,058
40%	1,654	1,175	1,437	1,054	407	334	280	339	516	1,511	1,584	1,976
50%	1,273	1,028	1,188	865	364	285	268	309	425	1,099	1,528	1,766
60%	436	407	1,003	628	297	269	256	282	367	986	1,484	1,616
70%	321	343	775	396	265	259	243	266	338	738	1,411	755
80%	256	290	356	357	249	252	234	258	285	516	1,053	526
90%	252	240	258	256	242	229	219	220	235	487	958	487
Long Term												
Full Simulation Period[a]	1,173	1,201	1,189	787	446	332	300	394	683	1,247	1,558	1,575
Water Year Types[b]												
Wet (31%)	1,174	1,321	539	452	238	240	225	232	284	490	1,238	553
Above Normal (25%)	1,899	2,505	1,749	372	265	245	268	263	293	625	1,163	634
Below Normal (6%)	436	362	1,164	1,143	387	269	257	293	285	1,115	1,584	2,500
Dry (13%)	777	825	1,206	1,095	530	315	261	315	480	1,404	1,520	2,171
Critical (25%)	1,346	1,051	1,476	904	630	468	413	659	1,401	2,003	1,996	2,107

Alternative 5 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-441	-585	-645	-46	-174	**72**	**82**	**150**	**442**	-637	**43**	**44**
20%	-515	-798	-585	-183	-171	**6**	**70**	**11**	**18**	-294	-17	**25**
30%	-496	-767	-669	-173	-6	**63**	**34**	-34	**131**	-323	-137	-360
40%	-602	-1,455	-676	-129	**74**	**69**	**9**	**41**	**92**	-143	-159	-373
50%	-863	-1,501	-797	-2	**66**	**22**	**22**	**35**	**31**	-384	-133	-555
60%	-1,620	-1,965	-702	**95**	**27**	**9**	**15**	**19**	**75**	-30	**17**	-618
70%	-1,688	-1,694	-632	**16**	**2**	**18**	**10**	**15**	**66**	**99**	**230**	-1,381
80%	-1,362	-1,359	**72**	**39**	-2	**13**	**3**	**15**	**33**	**68**	-13	-1,467
90%	-302	-383	**22**	-8	**7**	**6**	**5**	**6**	**17**	**177**	-11	-671
Long Term												
Full Simulation Period[a]	-778	-1,003	-480	-74	-6	**34**	**29**	**39**	**138**	-174	**29**	-491
Water Year Types[b]												
Wet (31%)	-175	-309	-58	**92**	-2	**4**	**2**	**10**	**48**	**38**	**394**	-689
Above Normal (25%)	-648	-171	-671	-86	-9	-7	**11**	**12**	**50**	**247**	**65**	-1,338
Below Normal (6%)	-1,820	-2,268	-1,252	-196	**53**	**29**	**16**	**31**	-5	**99**	**117**	-139
Dry (13%)	-1,170	-1,800	-732	**87**	**62**	**59**	**19**	**13**	**49**	-273	-213	-212
Critical (25%)	-790	-1,000	-385	-305	-74	**54**	**67**	**95**	**345**	-488	-101	-287

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-34-10. San Joaquin River at Jersey Point, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,677	3,141	2,602	1,341	862	409	342	623	1,164	2,626	2,134	2,557
20%	2,491	2,810	2,416	1,325	756	362	283	461	740	2,114	1,997	2,475
30%	2,380	2,656	2,329	1,247	469	287	274	388	515	2,097	1,930	2,418
40%	2,255	2,630	2,113	1,183	334	265	270	298	424	1,655	1,743	2,349
50%	2,136	2,529	1,985	867	298	262	246	274	394	1,484	1,661	2,322
60%	2,056	2,372	1,705	533	270	259	241	262	292	1,017	1,467	2,233
70%	2,009	2,037	1,406	381	263	241	233	251	271	638	1,181	2,136
80%	1,618	1,649	284	318	250	239	230	243	252	448	1,066	1,994
90%	554	622	237	264	235	224	215	213	218	309	969	1,158
Long Term												
Full Simulation Period[a]	1,951	2,204	1,669	861	452	299	272	355	545	1,422	1,528	2,066
Water Year Types[b]												
Wet (31%)	1,349	1,630	597	361	240	236	223	222	237	452	843	1,242
Above Normal (25%)	2,547	2,676	2,420	459	274	252	258	251	243	378	1,098	1,972
Below Normal (6%)	2,255	2,630	2,416	1,338	334	240	241	262	290	1,017	1,467	2,639
Dry (13%)	1,947	2,625	1,938	1,009	468	256	242	301	431	1,677	1,733	2,383
Critical (25%)	2,136	2,051	1,861	1,209	704	414	346	564	1,057	2,491	2,098	2,395

Alternative 6A,6B,6C (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	786	770	509	392	443	424	426	595	1,019	1,775	1,551	1,117
20%	557	487	425	360	419	396	409	489	691	1,398	1,206	909
30%	447	403	396	345	375	385	386	428	572	1,178	1,044	707
40%	414	384	338	340	361	377	375	401	501	950	942	637
50%	374	370	322	330	349	362	368	356	417	811	682	507
60%	331	340	313	320	343	335	294	295	319	517	522	433
70%	307	320	297	315	327	312	278	281	300	371	416	349
80%	285	306	278	310	296	267	257	265	288	344	401	309
90%	268	263	232	294	268	235	222	224	241	316	343	279
Long Term												
Full Simulation Period[a]	464	439	376	357	365	346	341	386	548	900	827	624
Water Year Types[b]												
Wet (31%)	327	299	246	298	281	257	234	235	264	320	354	280
Above Normal (25%)	797	712	446	327	350	314	307	268	275	359	402	349
Below Normal (6%)	329	332	338	379	460	332	294	314	289	517	522	433
Dry (13%)	400	394	341	332	362	371	376	384	467	906	863	607
Critical (25%)	519	500	489	432	423	413	423	569	1,002	1,654	1,407	1,061

Alternative 6A,6B,6C (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,891	-2,370	-2,093	-948	-418	15	85	-27	-145	-851	-583	-1,440
20%	-1,934	-2,323	-1,991	-965	-337	34	126	28	-49	-716	-791	-1,566
30%	-1,933	-2,252	-1,932	-902	-94	98	112	40	57	-918	-887	-1,712
40%	-1,841	-2,246	-1,775	-843	27	112	104	104	77	-705	-801	-1,712
50%	-1,762	-2,158	-1,662	-537	51	100	122	82	23	-673	-979	-1,815
60%	-1,724	-2,032	-1,392	-212	73	76	53	33	27	-499	-944	-1,800
70%	-1,702	-1,717	-1,109	-65	64	71	45	30	28	-267	-765	-1,787
80%	-1,333	-1,343	-5	-8	46	29	26	22	36	-104	-666	-1,685
90%	-287	-360	-5	30	33	12	8	11	22	7	-626	-878
Long Term												
Full Simulation Period[a]	-1,486	-1,764	-1,292	-504	-87	47	70	31	3	-521	-701	-1,442
Water Year Types[b]												
Wet (31%)	-1,022	-1,331	-351	-63	41	21	11	13	28	-132	-489	-962
Above Normal (25%)	-1,750	-1,963	-1,974	-131	75	62	49	18	33	-19	-696	-1,623
Below Normal (6%)	-1,926	-2,298	-2,078	-959	126	92	53	52	-1	-499	-944	-2,206
Dry (13%)	-1,547	-2,231	-1,598	-676	-106	115	134	83	36	-771	-870	-1,776
Critical (25%)	-1,617	-1,551	-1,372	-777	-282	-1	77	4	-54	-837	-690	-1,333

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-34-11. San Joaquin River at Jersey Point, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,677	3,141	2,602	1,341	862	409	342	623	1,164	2,626	2,134	2,557
20%	2,491	2,810	2,416	1,325	756	362	283	461	740	2,114	1,997	2,475
30%	2,380	2,656	2,329	1,247	469	287	274	388	515	2,097	1,930	2,418
40%	2,255	2,630	2,113	1,183	334	265	270	298	424	1,655	1,743	2,349
50%	2,136	2,529	1,985	867	298	262	246	274	394	1,484	1,661	2,322
60%	2,056	2,372	1,705	533	270	259	241	262	292	1,017	1,467	2,233
70%	2,009	2,037	1,406	381	263	241	233	251	271	638	1,181	2,136
80%	1,618	1,649	284	318	250	239	230	243	252	448	1,066	1,994
90%	554	622	237	264	235	224	215	213	218	309	969	1,158
Long Term												
Full Simulation Period[a]	1,951	2,204	1,669	861	452	299	272	355	545	1,422	1,528	2,066
Water Year Types[b]												
Wet (31%)	1,349	1,630	597	361	240	236	223	222	237	452	843	1,242
Above Normal (25%)	2,547	2,676	2,420	459	274	252	258	251	243	378	1,098	1,972
Below Normal (6%)	2,255	2,630	2,416	1,338	334	240	241	262	290	1,017	1,467	2,639
Dry (13%)	1,947	2,625	1,938	1,009	468	256	242	301	431	1,677	1,733	2,383
Critical (25%)	2,136	2,051	1,861	1,209	704	414	346	564	1,057	2,491	2,098	2,395

Alternative 7 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,556	975	530	395	422	417	407	507	600	1,896	2,125	2,534
20%	1,392	631	495	360	387	380	402	469	526	1,752	1,986	2,426
30%	1,308	615	440	352	361	369	381	423	472	1,683	1,863	2,337
40%	1,224	544	358	338	360	360	373	403	454	1,420	1,806	2,249
50%	1,095	465	339	325	348	357	364	356	368	1,291	1,592	2,108
60%	341	342	307	323	340	334	290	294	305	965	1,541	1,989
70%	299	319	294	311	309	302	278	283	288	582	1,247	620
80%	285	301	281	294	271	264	257	265	278	503	1,194	557
90%	270	263	229	276	258	236	223	221	233	430	1,152	532
Long Term												
Full Simulation Period[a]	930	532	399	355	353	339	337	360	414	1,175	1,621	1,661
Water Year Types[b]												
Wet (31%)	724	354	250	290	262	254	234	234	253	451	1,250	522
Above Normal (25%)	1,726	850	451	306	317	294	301	265	266	480	1,204	620
Below Normal (6%)	341	342	337	360	414	322	290	316	291	1,227	1,815	2,388
Dry (13%)	527	426	348	330	357	361	369	382	429	1,588	1,555	2,455
Critical (25%)	1,218	669	550	445	424	411	418	490	613	1,690	2,097	2,207

Alternative 7 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,121	-2,165	-2,072	-946	-440	8	65	-116	-563	-730	-9	-23
20%	-1,099	-2,179	-1,921	-965	-370	18	119	8	-215	-362	-11	-49
30%	-1,072	-2,041	-1,889	-895	-108	82	108	34	-43	-414	-67	-81
40%	-1,032	-2,086	-1,755	-845	26	95	103	105	30	-235	63	-100
50%	-1,041	-2,064	-1,646	-542	50	95	118	82	-25	-193	-69	-213
60%	-1,714	-2,030	-1,398	-210	70	75	49	32	13	-52	75	-244
70%	-1,710	-1,718	-1,112	-70	45	60	45	32	16	-57	66	-1,516
80%	-1,332	-1,348	-3	-25	20	25	27	22	26	55	128	-1,437
90%	-285	-359	-8	12	23	12	9	7	15	121	183	-626
Long Term												
Full Simulation Period[a]	-1,020	-1,672	-1,270	-506	-99	40	65	5	-132	-247	92	-405
Water Year Types[b]												
Wet (31%)	-625	-1,276	-347	-71	22	17	11	12	17	-1	407	-720
Above Normal (25%)	-821	-1,825	-1,969	-153	43	42	43	14	23	102	106	-1,352
Below Normal (6%)	-1,914	-2,288	-2,079	-978	80	81	49	54	1	210	348	-251
Dry (13%)	-1,420	-2,199	-1,591	-678	-110	105	128	81	-2	-89	-178	72
Critical (25%)	-918	-1,382	-1,311	-764	-280	-3	71	-74	-444	-801	0	-188

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-34-12. San Joaquin River at Jersey Point, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,677	3,141	2,602	1,341	862	409	342	623	1,164	2,626	2,134	2,557
20%	2,491	2,810	2,416	1,325	756	362	283	461	740	2,114	1,997	2,475
30%	2,380	2,656	2,329	1,247	469	287	274	388	515	2,097	1,930	2,418
40%	2,255	2,630	2,113	1,183	334	265	270	298	424	1,655	1,743	2,349
50%	2,136	2,529	1,985	867	298	262	246	274	394	1,484	1,661	2,322
60%	2,056	2,372	1,705	533	270	259	241	262	292	1,017	1,467	2,233
70%	2,009	2,037	1,406	381	263	241	233	251	271	638	1,181	2,136
80%	1,618	1,649	284	318	250	239	230	243	252	448	1,066	1,994
90%	554	622	237	264	235	224	215	213	218	309	969	1,158
Long Term												
Full Simulation Period[a]	1,951	2,204	1,669	861	452	299	272	355	545	1,422	1,528	2,066
Water Year Types[b]												
Wet (31%)	1,349	1,630	597	361	240	236	223	222	237	452	843	1,242
Above Normal (25%)	2,547	2,676	2,420	459	274	252	258	251	243	378	1,098	1,972
Below Normal (6%)	2,255	2,630	2,416	1,338	334	240	241	262	290	1,017	1,467	2,639
Dry (13%)	1,947	2,625	1,938	1,009	468	256	242	301	431	1,677	1,733	2,383
Critical (25%)	2,136	2,051	1,861	1,209	704	414	346	564	1,057	2,491	2,098	2,395

Alternative 8 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,615	1,047	569	409	418	405	379	428	546	1,705	2,091	2,714
20%	1,541	834	531	353	373	356	369	400	456	1,315	1,969	2,534
30%	1,447	593	433	342	357	355	362	388	433	1,263	1,853	2,309
40%	1,349	544	358	331	354	353	359	362	412	1,246	1,740	2,075
50%	1,189	504	339	322	339	344	339	316	350	964	1,593	1,969
60%	321	332	307	317	335	317	289	284	296	674	1,448	1,910
70%	300	319	293	308	303	298	272	275	285	366	1,260	586
80%	278	303	277	295	273	263	256	261	277	358	1,111	506
90%	260	263	228	275	255	236	222	219	233	336	1,033	480
Long Term												
Full Simulation Period[a]	951	560	408	356	349	331	324	332	396	945	1,561	1,654
Water Year Types[b]												
Wet (31%)	760	372	251	288	259	254	233	231	250	323	1,105	481
Above Normal (25%)	1,519	764	457	300	316	294	298	263	265	354	1,102	586
Below Normal (6%)	321	330	333	353	398	314	289	304	289	804	1,740	2,534
Dry (13%)	605	509	369	332	348	346	352	362	425	1,079	1,617	2,591
Critical (25%)	1,278	714	562	452	426	398	393	423	562	1,602	2,030	2,093

Alternative 8 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,062	-2,094	-2,033	-932	-443	-4	**38**	-195	-618	-921	-43	**157**
20%	-950	-1,975	-1,885	-972	-383	-6	**86**	-61	-285	-799	-29	**59**
30%	-932	-2,062	-1,895	-904	-112	**68**	**88**	0	-81	-833	-77	-109
40%	-906	-2,086	-1,755	-852	**20**	**88**	**88**	**64**	-12	-409	-2	-274
50%	-946	-2,025	-1,645	-545	**41**	**82**	**92**	**42**	-44	-520	-68	-353
60%	-1,734	-2,040	-1,398	-215	**65**	**58**	**49**	**22**	**4**	-342	-19	-323
70%	-1,709	-1,718	-1,113	-72	**39**	**56**	**39**	**24**	**14**	-273	**79**	-1,549
80%	-1,340	-1,346	-7	-23	**22**	**25**	**25**	**18**	**25**	-90	**45**	-1,488
90%	-295	-360	-9	**12**	**20**	**13**	**8**	**6**	**15**	**27**	**63**	-678
Long Term												
Full Simulation Period[a]	-1,000	-1,644	-1,260	-505	-103	**32**	**53**	-23	-150	-476	**33**	-412
Water Year Types[b]												
Wet (31%)	-589	-1,258	-346	-73	**19**	**18**	**10**	**9**	**14**	-129	**262**	-761
Above Normal (25%)	-1,028	-1,912	-1,963	-159	**42**	**42**	**40**	**12**	**22**	-23	**4**	-1,386
Below Normal (6%)	-1,934	-2,300	-2,083	-985	**65**	**73**	**49**	**42**	-1	-213	**274**	-105
Dry (13%)	-1,342	-2,117	-1,569	-677	-119	**90**	**110**	**61**	-5	-598	-115	**208**
Critical (25%)	-858	-1,337	-1,300	-757	-279	-16	**47**	-141	-495	-890	-68	-301

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-34-13. San Joaquin River at Jersey Point, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,677	3,141	2,602	1,341	862	409	342	623	1,164	2,626	2,134	2,557
20%	2,491	2,810	2,416	1,325	756	362	283	461	740	2,114	1,997	2,475
30%	2,380	2,656	2,329	1,247	469	287	274	388	515	2,097	1,930	2,418
40%	2,255	2,630	2,113	1,183	334	265	270	298	424	1,655	1,743	2,349
50%	2,136	2,529	1,985	867	298	262	246	274	394	1,484	1,661	2,322
60%	2,056	2,372	1,705	533	270	259	241	262	292	1,017	1,467	2,233
70%	2,009	2,037	1,406	381	263	241	233	251	271	638	1,181	2,136
80%	1,618	1,649	284	318	250	239	230	243	252	448	1,066	1,994
90%	554	622	237	264	235	224	215	213	218	309	969	1,158
Long Term												
Full Simulation Period[a]	1,951	2,204	1,669	861	452	299	272	355	545	1,422	1,528	2,066
Water Year Types[b]												
Wet (31%)	1,349	1,630	597	361	240	236	223	222	237	452	843	1,242
Above Normal (25%)	2,547	2,676	2,420	459	274	252	258	251	243	378	1,098	1,972
Below Normal (6%)	2,255	2,630	2,416	1,338	334	240	241	262	290	1,017	1,467	2,639
Dry (13%)	1,947	2,625	1,938	1,009	468	256	242	301	431	1,677	1,733	2,383
Critical (25%)	2,136	2,051	1,861	1,209	704	414	346	564	1,057	2,491	2,098	2,395

Alternative 9 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,171	2,506	2,342	1,253	877	609	460	675	1,093	1,269	1,108	1,690
20%	1,874	1,973	1,672	796	616	450	418	509	688	1,075	944	1,590
30%	1,759	1,938	1,339	632	444	434	405	352	462	888	802	1,472
40%	1,610	1,794	991	621	406	420	380	337	409	800	777	1,362
50%	1,276	1,511	820	588	403	374	345	319	391	676	709	1,226
60%	431	463	613	448	375	348	308	309	376	543	673	1,187
70%	368	425	513	430	329	265	270	291	357	487	622	482
80%	344	362	356	356	286	239	240	264	341	425	602	428
90%	313	296	263	310	259	230	220	213	307	367	594	363
Long Term												
Full Simulation Period[a]	1,160	1,377	1,094	700	506	389	352	383	538	772	781	1,078
Water Year Types[b]												
Wet (31%)	772	890	418	360	262	240	227	242	311	392	634	367
Above Normal (25%)	1,960	2,315	1,384	402	322	288	272	252	355	413	569	475
Below Normal (6%)	379	455	695	621	400	269	274	309	329	569	789	1,697
Dry (13%)	849	1,272	1,160	715	508	402	367	332	400	770	723	1,374
Critical (25%)	1,557	1,661	1,544	1,094	795	564	489	603	947	1,261	1,028	1,526

Alternative 9 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-506	-635	-261	-88	**15**	**200**	**118**	**53**	-71	-1,357	-1,026	-866
20%	-617	-837	-744	-529	-140	**88**	**135**	**48**	-53	-1,038	-1,053	-885
30%	-621	-718	-990	-614	-25	**147**	**131**	-37	-53	-1,208	-1,129	-946
40%	-645	-836	-1,122	-562	**72**	**155**	**110**	**39**	-15	-855	-966	-987
50%	-860	-1,018	-1,165	-279	**105**	**112**	**99**	**45**	-2	-808	-952	-1,096
60%	-1,624	-1,910	-1,092	-84	**105**	**88**	**67**	**47**	**84**	-473	-794	-1,046
70%	-1,641	-1,612	-893	**49**	**66**	**24**	**37**	**40**	**85**	-152	-559	-1,654
80%	-1,274	-1,286	**73**	**37**	**36**	**1**	**10**	**21**	**90**	-23	-465	-1,566
90%	-241	-326	**26**	**46**	**24**	**6**	**6**	0	**89**	**57**	-376	-794
Long Term												
Full Simulation Period[a]	-790	-826	-575	-161	**54**	**91**	**81**	**28**	-7	-650	-747	-989
Water Year Types[b]												
Wet (31%)	-577	-740	-179	0	**23**	**4**	**5**	**20**	**74**	-60	-209	-875
Above Normal (25%)	-587	-360	-1,036	-57	**47**	**36**	**15**	**1**	**113**	**36**	-529	-1,497
Below Normal (6%)	-1,876	-2,175	-1,721	-717	**66**	**28**	**33**	**47**	**39**	-447	-678	-942
Dry (13%)	-1,098	-1,353	-778	-293	**40**	**146**	**125**	**30**	-31	-907	-1,010	-1,009
Critical (25%)	-579	-390	-317	-115	**91**	**150**	**142**	**39**	-110	-1,230	-1,069	-869

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-34-14. San Joaquin River at Jersey Point, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,267	2,876	2,362	1,459	1,013	502	442	780	1,495	1,985	1,691	2,903
20%	2,013	2,682	2,247	1,238	631	417	363	492	728	1,854	1,581	2,717
30%	1,967	2,353	1,934	1,192	460	338	291	384	561	1,720	1,559	2,572
40%	1,700	2,098	1,554	1,100	415	309	278	356	503	1,667	1,471	2,468
50%	1,565	1,912	1,483	760	327	267	258	307	406	1,331	1,401	2,391
60%	536	661	1,266	660	303	256	237	267	344	811	1,159	2,172
70%	320	483	880	490	261	240	229	246	318	457	1,122	953
80%	260	264	429	334	250	234	219	243	270	438	1,074	784
90%	255	223	271	253	228	226	209	207	231	334	1,015	624
Long Term												
Full Simulation Period[a]	1,262	1,561	1,435	846	488	333	299	402	633	1,177	1,360	1,915
Water Year Types[b]												
Wet (31%)	1,111	1,453	559	346	230	230	215	221	273	357	1,005	658
Above Normal (25%)	1,926	2,530	2,642	449	261	239	247	238	277	419	1,110	872
Below Normal (6%)	536	574	1,472	1,235	350	243	236	267	270	1,186	1,552	2,919
Dry (13%)	642	1,172	1,284	1,095	544	291	257	329	466	1,452	1,417	2,462
Critical (25%)	1,758	1,767	1,767	1,127	769	504	435	697	1,269	1,915	1,660	2,698

Alternative 1A,1B,1C (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,118	2,368	2,161	1,122	692	498	449	849	1,594	2,036	2,187	2,696
20%	1,905	2,169	1,990	1,068	625	394	371	493	739	1,784	1,940	2,406
30%	1,769	2,017	1,922	1,018	535	348	349	350	601	1,480	1,642	2,297
40%	1,642	1,859	1,844	941	445	338	288	334	414	1,413	1,550	2,253
50%	1,597	1,561	1,537	917	406	337	277	323	382	1,036	1,471	2,209
60%	1,385	1,358	1,350	765	310	330	254	289	372	661	1,351	2,165
70%	1,295	878	1,256	504	306	282	253	262	297	553	1,227	2,013
80%	1,199	639	675	434	303	266	247	253	267	419	899	1,748
90%	820	363	283	303	265	234	214	217	232	379	851	1,515
Long Term												
Full Simulation Period[a]	1,485	1,482	1,428	785	454	345	313	407	657	1,128	1,467	2,085
Water Year Types[b]												
Wet (31%)	1,047	1,123	491	480	280	255	228	239	274	387	940	1,839
Above Normal (25%)	1,552	1,858	2,051	493	337	312	297	249	275	489	1,013	2,221
Below Normal (6%)	1,250	806	2,015	1,376	445	338	281	289	267	661	1,472	2,872
Dry (13%)	1,885	2,066	1,704	906	509	320	267	316	419	1,317	1,517	2,165
Critical (25%)	1,534	1,287	1,592	930	598	450	430	699	1,385	1,919	2,030	2,007

Alternative 1A,1B,1C (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-149	-508	-201	-337	-321	-5	**7**	**69**	**99**	**50**	**495**	-207
20%	-108	-513	-257	-170	-6	-23	**8**	**1**	**11**	-70	**359**	-311
30%	-198	-336	-12	-174	**75**	**10**	**58**	-34	**40**	-240	**83**	-275
40%	-58	-239	**290**	-159	**30**	**30**	**10**	-21	-89	-253	**79**	-215
50%	**32**	-351	**54**	**156**	**79**	**70**	**19**	**16**	-24	-294	**70**	-182
60%	**849**	**697**	**84**	**105**	**7**	**75**	**18**	**22**	**28**	-150	**192**	-7
70%	**975**	**395**	**375**	**14**	**46**	**42**	**24**	**17**	-21	**96**	**104**	**1,060**
80%	**939**	**374**	**245**	**100**	**53**	**31**	**29**	**10**	-3	-19	-175	**963**
90%	**565**	**140**	**12**	**51**	**37**	**9**	**5**	**10**	**1**	**45**	-165	**891**
Long Term												
Full Simulation Period[a]	**223**	-79	-7	-61	-34	**12**	**13**	**4**	**24**	-49	**107**	**171**
Water Year Types[b]												
Wet (31%)	-63	-331	-68	**133**	**50**	**25**	**13**	**18**	**1**	**30**	-65	**1,181**
Above Normal (25%)	-374	-672	-591	**44**	**76**	**73**	**50**	**11**	-3	**70**	-97	**1,349**
Below Normal (6%)	**714**	**233**	**543**	**142**	**95**	**96**	**45**	**22**	-3	-525	-80	-47
Dry (13%)	**1,242**	**894**	**420**	-189	-34	**29**	**10**	-13	-47	-134	**101**	-298
Critical (25%)	-224	-481	-175	-197	-171	-53	-5	**1**	**116**	**3**	**370**	-691

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-34-15. San Joaquin River at Jersey Point, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,267	2,876	2,362	1,459	1,013	502	442	780	1,495	1,985	1,691	2,903
20%	2,013	2,682	2,247	1,238	631	417	363	492	728	1,854	1,581	2,717
30%	1,967	2,353	1,934	1,192	460	338	291	384	561	1,720	1,559	2,572
40%	1,700	2,098	1,554	1,100	415	309	278	356	503	1,667	1,471	2,468
50%	1,565	1,912	1,483	760	327	267	258	307	406	1,331	1,401	2,391
60%	536	661	1,266	660	303	256	237	267	344	811	1,159	2,172
70%	320	483	880	490	261	240	229	246	318	457	1,122	953
80%	260	264	429	334	250	234	219	243	270	438	1,074	784
90%	255	223	271	253	228	226	209	207	231	334	1,015	624
Long Term												
Full Simulation Period[a]	1,262	1,561	1,435	846	488	333	299	402	633	1,177	1,360	1,915
Water Year Types[b]												
Wet (31%)	1,111	1,453	559	346	230	230	215	221	273	357	1,005	658
Above Normal (25%)	1,926	2,530	2,642	449	261	239	247	238	277	419	1,110	872
Below Normal (6%)	536	574	1,472	1,235	350	243	236	267	270	1,186	1,552	2,919
Dry (13%)	642	1,172	1,284	1,095	544	291	257	329	466	1,452	1,417	2,462
Critical (25%)	1,758	1,767	1,767	1,127	769	504	435	697	1,269	1,915	1,660	2,698

Alternative 2A,2B,2C (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,676	2,437	1,930	948	592	438	386	840	1,728	1,969	2,188	2,785
20%	1,449	1,530	1,690	833	444	387	373	480	747	1,728	2,049	2,587
30%	1,351	1,306	1,460	702	417	369	362	360	619	1,583	1,613	2,139
40%	1,230	1,081	1,133	633	386	354	298	335	487	1,409	1,491	2,067
50%	1,043	862	1,002	523	327	298	289	312	389	1,102	1,481	1,784
60%	382	431	895	444	293	278	270	286	381	741	1,468	1,730
70%	291	319	543	373	281	270	264	270	292	569	1,373	644
80%	271	293	289	313	270	252	255	262	279	482	969	494
90%	259	256	241	271	262	235	219	221	237	456	939	427
Long Term												
Full Simulation Period[a]	947	1,064	1,047	583	383	327	313	411	688	1,165	1,517	1,608
Water Year Types[b]												
Wet (31%)	650	851	410	328	276	257	232	232	278	411	1,008	437
Above Normal (25%)	1,518	1,905	1,568	408	338	314	303	259	268	620	1,224	644
Below Normal (6%)	382	332	1,133	947	386	306	267	292	279	639	1,468	2,819
Dry (13%)	599	1,009	787	559	403	293	287	326	440	1,323	1,518	2,349
Critical (25%)	1,346	1,088	1,540	803	471	420	411	706	1,464	1,964	2,049	2,094

Alternative 2A,2B,2C (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-591	-439	-432	-511	-421	-65	-56	60	233	-17	497	-118
20%	-564	-1,152	-557	-405	-186	-29	10	-12	19	-127	468	-129
30%	-616	-1,047	-475	-490	-43	30	71	-24	58	-137	55	-433
40%	-471	-1,017	-421	-467	-29	45	19	-20	-16	-258	20	-401
50%	-522	-1,050	-480	-237	0	32	31	5	-17	-229	80	-607
60%	-154	-230	-371	-216	-10	23	33	18	36	-70	309	-442
70%	-29	-164	-337	-117	20	30	35	24	-27	112	251	-308
80%	11	28	-140	-21	20	18	37	19	9	44	-105	-290
90%	4	33	-30	18	34	9	10	14	5	123	-77	-197
Long Term												
Full Simulation Period[a]	-315	-497	-388	-263	-105	-6	13	9	55	-12	157	-307
Water Year Types[b]												
Wet (31%)	-461	-603	-149	-18	46	26	17	10	5	54	3	-221
Above Normal (25%)	-407	-625	-1,074	-41	77	76	56	21	-9	201	115	-228
Below Normal (6%)	-154	-241	-340	-287	36	63	32	25	9	-547	-84	-100
Dry (13%)	-43	-163	-497	-536	-141	2	29	-3	-26	-129	101	-113
Critical (25%)	-412	-679	-227	-324	-298	-83	-24	9	195	49	389	-604

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-34-16. San Joaquin River at Jersey Point, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,267	2,876	2,362	1,459	1,013	502	442	780	1,495	1,985	1,691	2,903
20%	2,013	2,682	2,247	1,238	631	417	363	492	728	1,854	1,581	2,717
30%	1,967	2,353	1,934	1,192	460	338	291	384	561	1,720	1,559	2,572
40%	1,700	2,098	1,554	1,100	415	309	278	356	503	1,667	1,471	2,468
50%	1,565	1,912	1,483	760	327	267	258	307	406	1,331	1,401	2,391
60%	536	661	1,266	660	303	256	237	267	344	811	1,159	2,172
70%	320	483	880	490	261	240	229	246	318	457	1,122	953
80%	260	264	429	334	250	234	219	243	270	438	1,074	784
90%	255	223	271	253	228	226	209	207	231	334	1,015	624
Long Term												
Full Simulation Period[a]	1,262	1,561	1,435	846	488	333	299	402	633	1,177	1,360	1,915
Water Year Types[b]												
Wet (31%)	1,111	1,453	559	346	230	230	215	221	273	357	1,005	658
Above Normal (25%)	1,926	2,530	2,642	449	261	239	247	238	277	419	1,110	872
Below Normal (6%)	536	574	1,472	1,235	350	243	236	267	270	1,186	1,552	2,919
Dry (13%)	642	1,172	1,284	1,095	544	291	257	329	466	1,452	1,417	2,462
Critical (25%)	1,758	1,767	1,767	1,127	769	504	435	697	1,269	1,915	1,660	2,698

Alternative 3 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,203	2,439	2,108	1,205	619	499	448	863	1,641	1,979	2,185	2,702
20%	2,132	2,231	2,028	1,096	591	348	364	489	701	1,809	1,954	2,454
30%	1,862	2,052	1,994	981	563	337	337	352	588	1,532	1,610	2,327
40%	1,521	1,731	1,904	921	431	324	288	331	404	1,338	1,528	2,264
50%	1,438	1,449	1,747	846	358	316	272	323	390	1,130	1,468	2,230
60%	1,341	1,032	1,374	698	289	294	253	287	375	717	1,337	2,082
70%	1,248	898	1,147	431	276	268	243	261	299	554	1,209	1,948
80%	1,079	645	682	391	254	259	236	257	266	427	958	1,817
90%	792	361	258	262	246	230	214	217	232	374	845	1,682
Long Term												
Full Simulation Period[a]	1,484	1,432	1,435	764	415	332	310	416	658	1,147	1,460	2,114
Water Year Types[b]												
Wet (31%)	941	1,222	484	363	246	248	225	238	275	380	934	1,821
Above Normal (25%)	1,712	1,633	1,798	431	276	262	277	254	276	528	1,033	2,280
Below Normal (6%)	1,203	859	2,160	1,440	431	314	275	287	266	667	1,452	2,950
Dry (13%)	1,925	2,046	1,707	968	512	308	261	315	420	1,352	1,504	2,216
Critical (25%)	1,532	1,141	1,688	920	526	449	437	728	1,387	1,941	2,018	2,032

Alternative 3 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-63	-438	-253	-254	-394	-4	**6**	**83**	**146**	-7	**494**	-201
20%	**119**	-451	-219	-141	-40	-68	**1**	-4	-27	-46	**373**	-263
30%	-105	-300	**60**	-210	**104**	-1	**46**	-32	**28**	-188	**52**	-244
40%	-179	-367	**350**	-179	**16**	**16**	**10**	-25	-100	-328	**57**	-204
50%	-128	-463	**264**	**86**	**31**	**49**	**14**	**16**	-15	-201	**67**	-162
60%	**805**	**371**	**108**	**39**	-14	**38**	**17**	**20**	**31**	-94	**178**	-90
70%	**927**	**414**	**267**	-59	**15**	**28**	**14**	**15**	-19	**97**	**87**	**996**
80%	**819**	**381**	**253**	**57**	**4**	**25**	**17**	**14**	-4	-11	-116	**1,033**
90%	**537**	**138**	-13	**9**	**18**	**5**	**5**	**10**	**0**	**41**	-170	**1,058**
Long Term												
Full Simulation Period[a]	**222**	-129	0	-82	-73	-1	**11**	**13**	**26**	-30	**100**	**199**
Water Year Types[b]												
Wet (31%)	-170	-231	-75	**16**	**16**	**18**	**10**	**17**	**2**	**23**	-71	**1,163**
Above Normal (25%)	-214	-897	-844	-18	**15**	**23**	**31**	**15**	-2	**109**	-76	**1,408**
Below Normal (6%)	**667**	**286**	**687**	**205**	**81**	**71**	**39**	**20**	-4	-519	-100	**31**
Dry (13%)	**1,283**	**875**	**423**	-127	-32	**18**	**3**	-14	-46	-100	**87**	-246
Critical (25%)	-227	-626	-79	-207	-243	-55	**3**	**31**	**118**	**25**	**359**	-666

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-34-17. San Joaquin River at Jersey Point, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,267	2,876	2,362	1,459	1,013	502	442	780	1,495	1,985	1,691	2,903
20%	2,013	2,682	2,247	1,238	631	417	363	492	728	1,854	1,581	2,717
30%	1,967	2,353	1,934	1,192	460	338	291	384	561	1,720	1,559	2,572
40%	1,700	2,098	1,554	1,100	415	309	278	356	503	1,667	1,471	2,468
50%	1,565	1,912	1,483	760	327	267	258	307	406	1,331	1,401	2,391
60%	536	661	1,266	660	303	256	237	267	344	811	1,159	2,172
70%	320	483	880	490	261	240	229	246	318	457	1,122	953
80%	260	264	429	334	250	234	219	243	270	438	1,074	784
90%	255	223	271	253	228	226	209	207	231	334	1,015	624
Long Term												
Full Simulation Period[a]	1,262	1,561	1,435	846	488	333	299	402	633	1,177	1,360	1,915
Water Year Types[b]												
Wet (31%)	1,111	1,453	559	346	230	230	215	221	273	357	1,005	658
Above Normal (25%)	1,926	2,530	2,642	449	261	239	247	238	277	419	1,110	872
Below Normal (6%)	536	574	1,472	1,235	350	243	236	267	270	1,186	1,552	2,919
Dry (13%)	642	1,172	1,284	1,095	544	291	257	329	466	1,452	1,417	2,462
Critical (25%)	1,758	1,767	1,767	1,127	769	504	435	697	1,269	1,915	1,660	2,698

Alternative 4 H1 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,663	2,553	1,933	1,191	584	432	391	827	1,697	1,969	2,208	2,783
20%	1,514	1,494	1,763	868	425	368	368	482	751	1,682	2,041	2,509
30%	1,392	1,340	1,678	802	413	349	356	377	626	1,541	1,649	2,461
40%	1,293	1,206	1,537	748	403	337	295	334	501	1,379	1,574	2,294
50%	1,282	1,171	1,493	598	309	303	288	314	399	1,138	1,537	2,246
60%	1,272	1,119	1,454	415	294	281	274	285	369	807	1,500	2,129
70%	1,236	938	977	362	276	270	257	264	291	597	1,412	2,025
80%	1,129	848	290	289	254	264	251	260	277	489	968	1,773
90%	765	502	233	252	252	234	220	222	235	472	925	1,687
Long Term												
Full Simulation Period[a]	1,266	1,312	1,280	641	394	322	310	408	685	1,174	1,545	2,149
Water Year Types[b]												
Wet (31%)	767	786	389	307	252	253	231	231	273	443	1,084	1,941
Above Normal (25%)	1,526	1,929	1,609	385	296	295	300	260	268	648	1,221	2,340
Below Normal (6%)	1,129	891	2,077	1,258	413	306	274	295	277	617	1,453	2,812
Dry (13%)	1,387	1,633	1,491	725	433	294	281	329	465	1,334	1,543	2,189
Critical (25%)	1,492	1,314	1,535	821	512	414	409	694	1,439	1,952	2,064	2,073

Alternative 4 H1 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-604	-323	-429	-267	-429	-70	-51	**47**	**202**	-16	**517**	-121
20%	-499	-1,188	-484	-370	-206	-48	**5**	-10	**23**	-173	**460**	-207
30%	-574	-1,013	-256	-389	-47	**11**	**65**	-8	**65**	-179	**90**	-111
40%	-407	-892	-17	-352	-11	**28**	**17**	-21	-2	-288	**103**	-174
50%	-283	-741	**11**	-162	-18	**36**	**31**	**7**	-6	-192	**136**	-146
60%	**736**	**458**	**189**	-245	-9	**26**	**37**	**18**	**25**	-4	**341**	-43
70%	**916**	**454**	**97**	-129	**15**	**30**	**29**	**18**	-28	**141**	**290**	**1,072**
80%	**869**	**583**	-139	-45	**4**	**30**	**33**	**17**	**7**	**51**	-106	**989**
90%	**510**	**279**	-38	-1	**24**	**9**	**10**	**15**	**4**	**139**	-90	**1,063**
Long Term												
Full Simulation Period[a]	**4**	-249	-155	-205	-94	-10	**11**	**6**	**52**	-3	**185**	**234**
Water Year Types[b]												
Wet (31%)	-344	-668	-170	-39	**22**	**23**	**16**	**10**	**1**	**86**	**79**	**1,283**
Above Normal (25%)	-400	-601	-1,033	-65	**35**	**56**	**54**	**22**	-9	**229**	**111**	**1,468**
Below Normal (6%)	**593**	**317**	**604**	**24**	**63**	**63**	**38**	**28**	**7**	-570	-99	-107
Dry (13%)	**745**	**461**	**207**	-370	-110	**4**	**24**	**0**	-1	-118	**126**	-274
Critical (25%)	-266	-454	-232	-306	-258	-89	-26	-4	**170**	**37**	**404**	-625

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-34-18. San Joaquin River at Jersey Point, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,267	2,876	2,362	1,459	1,013	502	442	780	1,495	1,985	1,691	2,903
20%	2,013	2,682	2,247	1,238	631	417	363	492	728	1,854	1,581	2,717
30%	1,967	2,353	1,934	1,192	460	338	291	384	561	1,720	1,559	2,572
40%	1,700	2,098	1,554	1,100	415	309	278	356	503	1,667	1,471	2,468
50%	1,565	1,912	1,483	760	327	267	258	307	406	1,331	1,401	2,391
60%	536	661	1,266	660	303	256	237	267	344	811	1,159	2,172
70%	320	483	880	490	261	240	229	246	318	457	1,122	953
80%	260	264	429	334	250	234	219	243	270	438	1,074	784
90%	255	223	271	253	228	226	209	207	231	334	1,015	624
Long Term												
Full Simulation Period[a]	1,262	1,561	1,435	846	488	333	299	402	633	1,177	1,360	1,915
Water Year Types[b]												
Wet (31%)	1,111	1,453	559	346	230	230	215	221	273	357	1,005	658
Above Normal (25%)	1,926	2,530	2,642	449	261	239	247	238	277	419	1,110	872
Below Normal (6%)	536	574	1,472	1,235	350	243	236	267	270	1,186	1,552	2,919
Dry (13%)	642	1,172	1,284	1,095	544	291	257	329	466	1,452	1,417	2,462
Critical (25%)	1,758	1,767	1,767	1,127	769	504	435	697	1,269	1,915	1,660	2,698

Alternative 4 H2 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,727	2,543	1,904	1,005	568	422	369	804	1,638	1,975	2,232	2,767
20%	1,510	1,980	1,781	903	444	362	363	464	746	1,697	2,070	2,517
30%	1,404	1,480	1,687	884	434	354	349	372	608	1,518	1,612	2,420
40%	1,349	1,103	1,612	820	372	348	316	360	483	1,476	1,534	2,235
50%	1,305	1,051	1,514	624	326	296	293	321	416	1,166	1,480	2,100
60%	1,274	982	1,369	424	290	285	270	275	296	652	1,364	2,010
70%	1,258	920	958	345	276	268	259	263	283	458	1,317	1,956
80%	1,245	862	285	289	263	263	250	258	276	417	1,081	1,859
90%	643	454	225	251	253	234	217	222	236	347	957	1,722
Long Term												
Full Simulation Period[a]	1,261	1,327	1,259	623	385	321	308	405	670	1,126	1,524	2,115
Water Year Types[b]												
Wet (31%)	838	756	399	314	255	254	229	226	252	360	1,035	1,637
Above Normal (25%)	1,550	1,930	1,603	381	311	304	298	256	266	415	1,188	2,166
Below Normal (6%)	1,670	1,980	1,524	772	372	288	270	298	281	652	1,483	2,802
Dry (13%)	1,245	1,531	1,454	772	460	299	291	341	458	1,342	1,510	2,407
Critical (25%)	1,416	1,250	1,599	819	461	405	398	681	1,414	1,946	2,069	2,106

Alternative 4 H2 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-540	-333	-458	-453	-445	-81	-74	**24**	**143**	-10	**541**	-136
20%	-503	-702	-465	-335	-187	-54	**0**	-28	**18**	-157	**489**	-199
30%	-563	-873	-248	-307	-26	**16**	**58**	-12	**47**	-202	**53**	-152
40%	-351	-995	**58**	-280	-43	**40**	**38**	**5**	-20	-190	**63**	-233
50%	-260	-861	**31**	-136	-1	**29**	**35**	**14**	**11**	-164	**79**	-291
60%	**738**	**321**	**103**	-236	-14	**30**	**33**	**7**	-48	-159	**205**	-162
70%	**938**	**437**	**77**	-145	**15**	**28**	**30**	**17**	-35	**1**	**195**	**1,003**
80%	**984**	**598**	-145	-45	**13**	**29**	**32**	**15**	**6**	-21	**7**	**1,075**
90%	**388**	**231**	-45	-1	**25**	**9**	**8**	**15**	**5**	**13**	-58	**1,098**
Long Term												
Full Simulation Period[a]	-1	-233	-177	-223	-103	-12	**9**	**3**	**37**	-51	**164**	**200**
Water Year Types[b]												
Wet (31%)	-273	-697	-160	-32	**25**	**24**	**14**	**5**	-21	**3**	**30**	**979**
Above Normal (25%)	-376	-600	-1,039	-68	**50**	**65**	**51**	**18**	-12	-4	**78**	**1,294**
Below Normal (6%)	**1,134**	**1,406**	**51**	-463	**22**	**45**	**34**	**30**	**11**	-535	-69	-117
Dry (13%)	**603**	**359**	**169**	-324	-83	**8**	**34**	**11**	-7	-110	**93**	-56
Critical (25%)	-343	-518	-168	-308	-308	-99	-37	-16	**145**	**31**	**409**	-592

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-34-19. San Joaquin River at Jersey Point, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,267	2,876	2,362	1,459	1,013	502	442	780	1,495	1,985	1,691	2,903
20%	2,013	2,682	2,247	1,238	631	417	363	492	728	1,854	1,581	2,717
30%	1,967	2,353	1,934	1,192	460	338	291	384	561	1,720	1,559	2,572
40%	1,700	2,098	1,554	1,100	415	309	278	356	503	1,667	1,471	2,468
50%	1,565	1,912	1,483	760	327	267	258	307	406	1,331	1,401	2,391
60%	536	661	1,266	660	303	256	237	267	344	811	1,159	2,172
70%	320	483	880	490	261	240	229	246	318	457	1,122	953
80%	260	264	429	334	250	234	219	243	270	438	1,074	784
90%	255	223	271	253	228	226	209	207	231	334	1,015	624
Long Term												
Full Simulation Period[a]	1,262	1,561	1,435	846	488	333	299	402	633	1,177	1,360	1,915
Water Year Types[b]												
Wet (31%)	1,111	1,453	559	346	230	230	215	221	273	357	1,005	658
Above Normal (25%)	1,926	2,530	2,642	449	261	239	247	238	277	419	1,110	872
Below Normal (6%)	536	574	1,472	1,235	350	243	236	267	270	1,186	1,552	2,919
Dry (13%)	642	1,172	1,284	1,095	544	291	257	329	466	1,452	1,417	2,462
Critical (25%)	1,758	1,767	1,767	1,127	769	504	435	697	1,269	1,915	1,660	2,698

Alternative 4 H3 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,747	2,455	1,832	791	608	435	385	838	1,705	1,987	2,187	2,700
20%	1,576	1,818	1,497	728	452	369	368	480	750	1,748	2,021	2,298
30%	1,425	1,353	1,377	688	380	353	347	362	619	1,533	1,644	2,163
40%	1,294	1,161	1,062	635	340	333	297	335	490	1,367	1,559	2,002
50%	1,107	902	915	512	304	288	289	312	402	1,094	1,537	1,863
60%	387	420	899	420	275	278	267	285	368	809	1,487	1,733
70%	290	320	541	356	267	269	257	264	292	568	1,421	677
80%	272	293	241	289	254	250	255	262	278	481	968	509
90%	262	256	232	247	253	234	219	222	235	470	946	431
Long Term												
Full Simulation Period[a]	956	1,103	987	533	370	323	309	410	684	1,171	1,539	1,590
Water Year Types[b]												
Wet (31%)	714	789	392	308	253	255	231	231	274	417	1,061	461
Above Normal (25%)	1,567	1,906	1,561	383	296	296	300	260	268	651	1,233	641
Below Normal (6%)	387	335	915	816	365	291	267	292	278	643	1,477	2,830
Dry (13%)	607	1,011	789	555	400	286	282	324	447	1,325	1,522	2,273
Critical (25%)	1,300	1,258	1,406	698	471	424	405	704	1,450	1,964	2,069	2,078

Alternative 4 H3 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-520	-422	-530	-668	-404	-67	-57	58	209	2	496	-204
20%	-438	-864	-750	-510	-179	-48	5	-12	22	-106	440	-419
30%	-542	-999	-557	-504	-79	15	56	-22	58	-187	86	-408
40%	-407	-937	-492	-465	-74	25	19	-21	-13	-300	88	-466
50%	-458	-1,010	-568	-249	-23	21	31	5	-4	-237	136	-528
60%	-149	-240	-367	-240	-28	22	31	18	24	-3	328	-440
70%	-30	-163	-339	-134	6	29	28	18	-27	111	299	-276
80%	12	29	-188	-45	4	15	36	19	8	43	-106	-275
90%	7	33	-38	-6	25	9	10	15	4	136	-70	-193
Long Term												
Full Simulation Period[a]	-306	-458	-448	-313	-118	-10	10	8	52	-6	179	-325
Water Year Types[b]												
Wet (31%)	-397	-664	-167	-39	23	24	16	10	1	60	56	-197
Above Normal (25%)	-359	-624	-1,081	-66	35	57	54	22	-10	232	123	-231
Below Normal (6%)	-149	-239	-557	-419	15	48	32	25	8	-544	-75	-89
Dry (13%)	-35	-160	-496	-540	-143	-5	25	-5	-19	-126	106	-189
Critical (25%)	-459	-509	-361	-429	-298	-79	-29	6	181	48	409	-620

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-34-20. San Joaquin River at Jersey Point, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,267	2,876	2,362	1,459	1,013	502	442	780	1,495	1,985	1,691	2,903
20%	2,013	2,682	2,247	1,238	631	417	363	492	728	1,854	1,581	2,717
30%	1,967	2,353	1,934	1,192	460	338	291	384	561	1,720	1,559	2,572
40%	1,700	2,098	1,554	1,100	415	309	278	356	503	1,667	1,471	2,468
50%	1,565	1,912	1,483	760	327	267	258	307	406	1,331	1,401	2,391
60%	536	661	1,266	660	303	256	237	267	344	811	1,159	2,172
70%	320	483	880	490	261	240	229	246	318	457	1,122	953
80%	260	264	429	334	250	234	219	243	270	438	1,074	784
90%	255	223	271	253	228	226	209	207	231	334	1,015	624
Long Term												
Full Simulation Period[a]	1,262	1,561	1,435	846	488	333	299	402	633	1,177	1,360	1,915
Water Year Types[b]												
Wet (31%)	1,111	1,453	559	346	230	230	215	221	273	357	1,005	658
Above Normal (25%)	1,926	2,530	2,642	449	261	239	247	238	277	419	1,110	872
Below Normal (6%)	536	574	1,472	1,235	350	243	236	267	270	1,186	1,552	2,919
Dry (13%)	642	1,172	1,284	1,095	544	291	257	329	466	1,452	1,417	2,462
Critical (25%)	1,758	1,767	1,767	1,127	769	504	435	697	1,269	1,915	1,660	2,698

Alternative 4 H4 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,738	2,245	1,873	1,153	695	459	382	813	1,653	1,963	2,227	2,739
20%	1,471	1,566	1,810	901	503	370	368	465	749	1,632	2,070	2,304
30%	1,349	1,277	1,445	728	422	358	349	370	602	1,537	1,673	2,116
40%	1,291	898	1,074	604	330	345	307	355	486	1,478	1,599	2,030
50%	1,150	746	965	512	308	288	294	323	420	1,014	1,537	1,934
60%	361	431	797	424	276	274	269	273	297	593	1,375	1,832
70%	295	319	538	349	273	266	256	263	281	449	1,300	627
80%	271	294	242	289	262	250	250	258	276	417	1,083	556
90%	259	255	224	259	254	234	217	221	236	345	958	460
Long Term												
Full Simulation Period[a]	967	1,009	1,019	614	402	327	312	406	672	1,106	1,536	1,617
Water Year Types[b]												
Wet (31%)	720	686	390	316	258	254	229	226	252	355	1,068	467
Above Normal (25%)	1,627	1,855	1,580	381	303	300	298	256	266	415	1,189	621
Below Normal (6%)	361	329	1,074	901	373	290	269	296	277	593	1,375	2,925
Dry (13%)	594	962	769	559	408	284	288	341	458	1,275	1,524	2,495
Critical (25%)	1,320	1,101	1,486	933	557	439	413	683	1,421	1,952	2,090	1,972

Alternative 4 H4 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-529	-632	-488	-306	-318	-44	-61	**33**	**157**	-22	**536**	-164
20%	-542	-1,116	-437	-337	-128	-47	**5**	-27	**21**	-222	**489**	-413
30%	-618	-1,076	-489	-464	-38	**19**	**59**	-14	**41**	-184	**115**	-456
40%	-410	-1,201	-480	-496	-85	**36**	**29**	0	-18	-189	**128**	-438
50%	-415	-1,166	-518	-248	-19	**21**	**36**	**16**	**14**	-317	**136**	-457
60%	-176	-230	-469	-236	-27	**18**	**32**	**6**	-48	-218	**217**	-340
70%	-25	-164	-342	-142	**13**	**26**	**27**	**17**	-37	-8	**178**	-325
80%	**11**	**29**	-187	-45	**11**	**16**	**32**	**15**	**6**	-21	**9**	-228
90%	**4**	**32**	-47	**7**	**26**	**9**	**8**	**14**	**5**	**11**	-58	-164
Long Term												
Full Simulation Period[a]	-295	-552	-416	-231	-87	-5	**13**	**4**	**39**	-71	**176**	-298
Water Year Types[b]												
Wet (31%)	-391	-767	-168	-30	**28**	**24**	**14**	**5**	-21	-2	**63**	-191
Above Normal (25%)	-299	-675	-1,061	-68	**42**	**61**	**51**	**18**	-12	-4	**79**	-251
Below Normal (6%)	-176	-245	-398	-334	**23**	**48**	**33**	**28**	**7**	-593	-176	**5**
Dry (13%)	-49	-210	-515	-537	-136	-7	**31**	**12**	-8	-177	**108**	**33**
Critical (25%)	-438	-667	-281	-193	-213	-65	-22	-14	**152**	**37**	**430**	-726

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-34-21. San Joaquin River at Jersey Point, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,267	2,876	2,362	1,459	1,013	502	442	780	1,495	1,985	1,691	2,903
20%	2,013	2,682	2,247	1,238	631	417	363	492	728	1,854	1,581	2,717
30%	1,967	2,353	1,934	1,192	460	338	291	384	561	1,720	1,559	2,572
40%	1,700	2,098	1,554	1,100	415	309	278	356	503	1,667	1,471	2,468
50%	1,565	1,912	1,483	760	327	267	258	307	406	1,331	1,401	2,391
60%	536	661	1,266	660	303	256	237	267	344	811	1,159	2,172
70%	320	483	880	490	261	240	229	246	318	457	1,122	953
80%	260	264	429	334	250	234	219	243	270	438	1,074	784
90%	255	223	271	253	228	226	209	207	231	334	1,015	624
Long Term												
Full Simulation Period[a]	1,262	1,561	1,435	846	488	333	299	402	633	1,177	1,360	1,915
Water Year Types[b]												
Wet (31%)	1,111	1,453	559	346	230	230	215	221	273	357	1,005	658
Above Normal (25%)	1,926	2,530	2,642	449	261	239	247	238	277	419	1,110	872
Below Normal (6%)	536	574	1,472	1,235	350	243	236	267	270	1,186	1,552	2,919
Dry (13%)	642	1,172	1,284	1,095	544	291	257	329	466	1,452	1,417	2,462
Critical (25%)	1,758	1,767	1,767	1,127	769	504	435	697	1,269	1,915	1,660	2,698

Alternative 5 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,235	2,556	1,957	1,295	687	481	424	772	1,606	1,989	2,177	2,601
20%	1,976	2,012	1,831	1,143	585	368	353	472	758	1,820	1,980	2,500
30%	1,884	1,888	1,660	1,073	463	350	308	354	646	1,773	1,794	2,058
40%	1,654	1,175	1,437	1,054	407	334	280	339	516	1,511	1,584	1,976
50%	1,273	1,028	1,188	865	364	285	268	309	425	1,099	1,528	1,766
60%	436	407	1,003	628	297	269	256	282	367	986	1,484	1,616
70%	321	343	775	396	265	259	243	266	338	738	1,411	755
80%	256	290	356	357	249	252	234	258	285	516	1,053	526
90%	252	240	258	256	242	229	219	220	235	487	958	487
Long Term												
Full Simulation Period[a]	1,173	1,201	1,189	787	446	332	300	394	683	1,247	1,558	1,575
Water Year Types[b]												
Wet (31%)	1,174	1,321	539	452	238	240	225	232	284	490	1,238	553
Above Normal (25%)	1,899	2,505	1,749	372	265	245	268	263	293	625	1,163	634
Below Normal (6%)	436	362	1,164	1,143	387	269	257	293	285	1,115	1,584	2,500
Dry (13%)	777	825	1,206	1,095	530	315	261	315	480	1,404	1,520	2,171
Critical (25%)	1,346	1,051	1,476	904	630	468	413	659	1,401	2,003	1,996	2,107

Alternative 5 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-32	-320	-405	-164	-326	-21	-18	-8	**110**	**3**	**485**	-302
20%	-37	-670	-415	-95	-46	-49	-10	-20	**30**	-34	**399**	-216
30%	-83	-464	-275	-118	**3**	**11**	**17**	-30	**85**	**53**	**235**	-514
40%	-47	-923	-117	-46	-7	**25**	**1**	-17	**13**	-155	**113**	-492
50%	-292	-884	-295	**105**	**36**	**18**	**10**	**2**	**19**	-231	**128**	-625
60%	-100	-254	-263	-32	-6	**13**	**19**	**14**	**23**	**175**	**325**	-557
70%	**1**	-140	-106	-94	**4**	**19**	**15**	**21**	**20**	**281**	**289**	-198
80%	-4	**26**	-74	**23**	-1	**18**	**15**	**15**	**15**	**78**	-21	-258
90%	-3	**17**	-12	**3**	**14**	**4**	**10**	**13**	**3**	**153**	-57	-137
Long Term												
Full Simulation Period[a]	-89	-360	-246	-59	-42	0	**1**	-8	**51**	**70**	**198**	-340
Water Year Types[b]												
Wet (31%)	**63**	-132	-20	**106**	**8**	**10**	**10**	**10**	**11**	**133**	**232**	-105
Above Normal (25%)	-26	-25	-893	-77	**4**	**6**	**22**	**24**	**15**	**206**	**53**	-238
Below Normal (6%)	-100	-212	-308	-92	**37**	**27**	**21**	**26**	**15**	-71	**32**	-419
Dry (13%)	**134**	-347	-78	**0**	-14	**24**	**4**	-15	**14**	-48	**104**	-292
Critical (25%)	-413	-716	-291	-223	-139	-35	-22	-38	**133**	**88**	**337**	-591

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-34-22. San Joaquin River at Jersey Point, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,267	2,876	2,362	1,459	1,013	502	442	780	1,495	1,985	1,691	2,903
20%	2,013	2,682	2,247	1,238	631	417	363	492	728	1,854	1,581	2,717
30%	1,967	2,353	1,934	1,192	460	338	291	384	561	1,720	1,559	2,572
40%	1,700	2,098	1,554	1,100	415	309	278	356	503	1,667	1,471	2,468
50%	1,565	1,912	1,483	760	327	267	258	307	406	1,331	1,401	2,391
60%	536	661	1,266	660	303	256	237	267	344	811	1,159	2,172
70%	320	483	880	490	261	240	229	246	318	457	1,122	953
80%	260	264	429	334	250	234	219	243	270	438	1,074	784
90%	255	223	271	253	228	226	209	207	231	334	1,015	624
Long Term												
Full Simulation Period[a]	1,262	1,561	1,435	846	488	333	299	402	633	1,177	1,360	1,915
Water Year Types[b]												
Wet (31%)	1,111	1,453	559	346	230	230	215	221	273	357	1,005	658
Above Normal (25%)	1,926	2,530	2,642	449	261	239	247	238	277	419	1,110	872
Below Normal (6%)	536	574	1,472	1,235	350	243	236	267	270	1,186	1,552	2,919
Dry (13%)	642	1,172	1,284	1,095	544	291	257	329	466	1,452	1,417	2,462
Critical (25%)	1,758	1,767	1,767	1,127	769	504	435	697	1,269	1,915	1,660	2,698

Alternative 6A,6B,6C (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	786	770	509	392	443	424	426	595	1,019	1,775	1,551	1,117
20%	557	487	425	360	419	396	409	489	691	1,398	1,206	909
30%	447	403	396	345	375	385	386	428	572	1,178	1,044	707
40%	414	384	338	340	361	377	375	401	501	950	942	637
50%	374	370	322	330	349	362	368	356	417	811	682	507
60%	331	340	313	320	343	335	294	295	319	517	522	433
70%	307	320	297	315	327	312	278	281	300	371	416	349
80%	285	306	278	310	296	267	257	265	288	344	401	309
90%	268	263	232	294	268	235	222	224	241	316	343	279
Long Term												
Full Simulation Period[a]	464	439	376	357	365	346	341	386	548	900	827	624
Water Year Types[b]												
Wet (31%)	327	299	246	298	281	257	234	235	264	320	354	280
Above Normal (25%)	797	712	446	327	350	314	307	268	275	359	402	349
Below Normal (6%)	329	332	338	379	460	332	294	314	289	517	522	433
Dry (13%)	400	394	341	332	362	371	376	384	467	906	863	607
Critical (25%)	519	500	489	432	423	413	423	569	1,002	1,654	1,407	1,061

Alternative 6A,6B,6C (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,481	-2,106	-1,852	-1,066	-570	-79	-16	-184	-476	-210	-141	-1,786
20%	-1,456	-2,195	-1,822	-878	-212	-20	46	-3	-37	-457	-375	-1,807
30%	-1,520	-1,949	-1,538	-847	-85	47	95	44	11	-542	-515	-1,865
40%	-1,286	-1,715	-1,216	-760	-54	68	96	46	-3	-717	-529	-1,831
50%	-1,191	-1,542	-1,160	-430	22	95	110	49	11	-520	-718	-1,885
60%	-205	-320	-953	-340	39	80	57	28	-26	-294	-636	-1,739
70%	-13	-163	-583	-175	66	72	49	35	-18	-85	-706	-604
80%	25	41	-151	-24	46	33	38	22	18	-94	-674	-475
90%	13	40	-38	41	40	10	13	17	9	-17	-672	-344
Long Term												
Full Simulation Period[a]	-798	-1,121	-1,059	-489	-123	13	42	-16	-84	-277	-533	-1,291
Water Year Types[b]												
Wet (31%)	-784	-1,154	-313	-48	51	27	19	14	-8	-37	-651	-378
Above Normal (25%)	-1,129	-1,818	-2,196	-122	89	75	60	30	-2	-60	-708	-523
Below Normal (6%)	-207	-242	-1,134	-855	110	89	58	47	19	-669	-1,029	-2,486
Dry (13%)	-242	-778	-944	-763	-182	80	119	55	1	-546	-553	-1,856
Critical (25%)	-1,240	-1,268	-1,278	-695	-347	-91	-11	-129	-267	-262	-252	-1,637

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-34-23. San Joaquin River at Jersey Point, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,267	2,876	2,362	1,459	1,013	502	442	780	1,495	1,985	1,691	2,903
20%	2,013	2,682	2,247	1,238	631	417	363	492	728	1,854	1,581	2,717
30%	1,967	2,353	1,934	1,192	460	338	291	384	561	1,720	1,559	2,572
40%	1,700	2,098	1,554	1,100	415	309	278	356	503	1,667	1,471	2,468
50%	1,565	1,912	1,483	760	327	267	258	307	406	1,331	1,401	2,391
60%	536	661	1,266	660	303	256	237	267	344	811	1,159	2,172
70%	320	483	880	490	261	240	229	246	318	457	1,122	953
80%	260	264	429	334	250	234	219	243	270	438	1,074	784
90%	255	223	271	253	228	226	209	207	231	334	1,015	624
Long Term												
Full Simulation Period[a]	1,262	1,561	1,435	846	488	333	299	402	633	1,177	1,360	1,915
Water Year Types[b]												
Wet (31%)	1,111	1,453	559	346	230	230	215	221	273	357	1,005	658
Above Normal (25%)	1,926	2,530	2,642	449	261	239	247	238	277	419	1,110	872
Below Normal (6%)	536	574	1,472	1,235	350	243	236	267	270	1,186	1,552	2,919
Dry (13%)	642	1,172	1,284	1,095	544	291	257	329	466	1,452	1,417	2,462
Critical (25%)	1,758	1,767	1,767	1,127	769	504	435	697	1,269	1,915	1,660	2,698

Alternative 7 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,556	975	530	395	422	417	407	507	600	1,896	2,125	2,534
20%	1,392	631	495	360	387	380	402	469	526	1,752	1,986	2,426
30%	1,308	615	440	352	361	369	381	423	472	1,683	1,863	2,337
40%	1,224	544	358	338	360	360	373	403	454	1,420	1,806	2,249
50%	1,095	465	339	325	348	357	364	356	368	1,291	1,592	2,108
60%	341	342	307	323	340	334	290	294	305	965	1,541	1,989
70%	299	319	294	311	309	302	278	283	288	582	1,247	620
80%	285	301	281	294	271	264	257	265	278	503	1,194	557
90%	270	263	229	276	258	236	223	221	233	430	1,152	532
Long Term												
Full Simulation Period[a]	930	532	399	355	353	339	337	360	414	1,175	1,621	1,661
Water Year Types[b]												
Wet (31%)	724	354	250	290	262	254	234	234	253	451	1,250	522
Above Normal (25%)	1,726	850	451	306	317	294	301	265	266	480	1,204	620
Below Normal (6%)	341	342	337	360	414	322	290	316	291	1,227	1,815	2,388
Dry (13%)	527	426	348	330	357	361	369	382	429	1,588	1,555	2,455
Critical (25%)	1,218	669	550	445	424	411	418	490	613	1,690	2,097	2,207

Alternative 7 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-711	-1,901	-1,831	-1,063	-591	-86	-35	-273	-895	-89	**434**	-369
20%	-621	-2,051	-1,752	-878	-244	-36	**39**	-24	-202	-102	**405**	-291
30%	-659	-1,738	-1,494	-840	-98	**31**	**91**	**39**	-89	-37	**305**	-235
40%	-477	-1,554	-1,196	-762	-55	**51**	**95**	**47**	-49	-247	**335**	-219
50%	-470	-1,447	-1,144	-435	**21**	**90**	**106**	**49**	-37	-40	**191**	-283
60%	-195	-319	-959	-337	**37**	**79**	**53**	**27**	-40	**154**	**383**	-183
70%	-21	-164	-586	-179	**48**	**61**	**49**	**37**	-31	**125**	**125**	-333
80%	**25**	**37**	-149	-41	**21**	**30**	**38**	**22**	**8**	**65**	**120**	-227
90%	**15**	**40**	-42	**23**	**30**	**11**	**14**	**14**	**2**	**96**	**137**	-92
Long Term												
Full Simulation Period[a]	-332	-1,029	-1,036	-491	-136	**6**	**38**	-42	-219	-3	**261**	-254
Water Year Types[b]												
Wet (31%)	-387	-1,100	-309	-57	**32**	**23**	**19**	**13**	-20	**94**	**245**	-137
Above Normal (25%)	-200	-1,680	-2,191	-143	**56**	**55**	**54**	**27**	-12	**61**	**94**	-252
Below Normal (6%)	-195	-231	-1,136	-874	**64**	**79**	**54**	**48**	**21**	**40**	**264**	-531
Dry (13%)	-116	-746	-937	-765	-186	**70**	**112**	**53**	-36	**136**	**138**	-7
Critical (25%)	-541	-1,099	-1,217	-682	-345	-93	-17	-207	-656	-225	**437**	-491

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-34-24. San Joaquin River at Jersey Point, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,267	2,876	2,362	1,459	1,013	502	442	780	1,495	1,985	1,691	2,903
20%	2,013	2,682	2,247	1,238	631	417	363	492	728	1,854	1,581	2,717
30%	1,967	2,353	1,934	1,192	460	338	291	384	561	1,720	1,559	2,572
40%	1,700	2,098	1,554	1,100	415	309	278	356	503	1,667	1,471	2,468
50%	1,565	1,912	1,483	760	327	267	258	307	406	1,331	1,401	2,391
60%	536	661	1,266	660	303	256	237	267	344	811	1,159	2,172
70%	320	483	880	490	261	240	229	246	318	457	1,122	953
80%	260	264	429	334	250	234	219	243	270	438	1,074	784
90%	255	223	271	253	228	226	209	207	231	334	1,015	624
Long Term												
Full Simulation Period[a]	1,262	1,561	1,435	846	488	333	299	402	633	1,177	1,360	1,915
Water Year Types[b]												
Wet (31%)	1,111	1,453	559	346	230	230	215	221	273	357	1,005	658
Above Normal (25%)	1,926	2,530	2,642	449	261	239	247	238	277	419	1,110	872
Below Normal (6%)	536	574	1,472	1,235	350	243	236	267	270	1,186	1,552	2,919
Dry (13%)	642	1,172	1,284	1,095	544	291	257	329	466	1,452	1,417	2,462
Critical (25%)	1,758	1,767	1,767	1,127	769	504	435	697	1,269	1,915	1,660	2,698

Alternative 8 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,615	1,047	569	409	418	405	379	428	546	1,705	2,091	2,714
20%	1,541	834	531	353	373	356	369	400	456	1,315	1,969	2,534
30%	1,447	593	433	342	357	355	362	388	433	1,263	1,853	2,309
40%	1,349	544	358	331	354	353	359	362	412	1,246	1,740	2,075
50%	1,189	504	339	322	339	344	339	316	350	964	1,593	1,969
60%	321	332	307	317	335	317	289	284	296	674	1,448	1,910
70%	300	319	293	308	303	298	272	275	285	366	1,260	586
80%	278	303	277	295	273	263	256	261	277	358	1,111	506
90%	260	263	228	275	255	236	222	219	233	336	1,033	480
Long Term												
Full Simulation Period[a]	951	560	408	356	349	331	324	332	396	945	1,561	1,654
Water Year Types[b]												
Wet (31%)	760	372	251	288	259	254	233	231	250	323	1,105	481
Above Normal (25%)	1,519	764	457	300	316	294	298	263	265	354	1,102	586
Below Normal (6%)	321	330	333	353	398	314	289	304	289	804	1,740	2,534
Dry (13%)	605	509	369	332	348	346	352	362	425	1,079	1,617	2,591
Critical (25%)	1,278	714	562	452	426	398	393	423	562	1,602	2,030	2,093

Alternative 8 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-652	-1,830	-1,792	-1,050	-594	-98	-63	-352	-950	-280	**400**	-189
20%	-472	-1,848	-1,716	-885	-258	-61	**6**	-93	-272	-539	**388**	-182
30%	-520	-1,759	-1,501	-849	-103	**16**	**71**	**4**	-128	-457	**295**	-262
40%	-351	-1,554	-1,196	-769	-61	**44**	**80**	**6**	-92	-421	**269**	-393
50%	-376	-1,408	-1,143	-438	**12**	**77**	**81**	**9**	-56	-366	**193**	-423
60%	-215	-329	-959	-343	**32**	**62**	**52**	**17**	-48	-137	**289**	-262
70%	-20	-165	-587	-182	**42**	**58**	**43**	**29**	-33	-91	**138**	-366
80%	**18**	**39**	-152	-39	**23**	**29**	**37**	**18**	**7**	-80	**37**	-278
90%	**5**	**40**	-43	**23**	**27**	**11**	**13**	**12**	**2**	**2**	**17**	-144
Long Term												
Full Simulation Period[a]	-311	-1,001	-1,027	-490	-139	-2	**25**	-70	-237	-232	**202**	-261
Water Year Types[b]												
Wet (31%)	-351	-1,081	-308	-58	**29**	**23**	**18**	**9**	-22	-34	**100**	-177
Above Normal (25%)	-407	-1,766	-2,185	-149	**56**	**55**	**51**	**24**	-12	-65	-8	-286
Below Normal (6%)	-215	-243	-1,139	-882	**49**	**71**	**54**	**37**	**19**	-382	**189**	-385
Dry (13%)	-37	-663	-915	-763	-195	**55**	**94**	**33**	-40	-373	**201**	**129**
Critical (25%)	-481	-1,053	-1,205	-675	-344	-106	-42	-275	-707	-314	**370**	-605

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-34-25. San Joaquin River at Jersey Point, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,267	2,876	2,362	1,459	1,013	502	442	780	1,495	1,985	1,691	2,903
20%	2,013	2,682	2,247	1,238	631	417	363	492	728	1,854	1,581	2,717
30%	1,967	2,353	1,934	1,192	460	338	291	384	561	1,720	1,559	2,572
40%	1,700	2,098	1,554	1,100	415	309	278	356	503	1,667	1,471	2,468
50%	1,565	1,912	1,483	760	327	267	258	307	406	1,331	1,401	2,391
60%	536	661	1,266	660	303	256	237	267	344	811	1,159	2,172
70%	320	483	880	490	261	240	229	246	318	457	1,122	953
80%	260	264	429	334	250	234	219	243	270	438	1,074	784
90%	255	223	271	253	228	226	209	207	231	334	1,015	624
Long Term												
Full Simulation Period[a]	1,262	1,561	1,435	846	488	333	299	402	633	1,177	1,360	1,915
Water Year Types[b]												
Wet (31%)	1,111	1,453	559	346	230	230	215	221	273	357	1,005	658
Above Normal (25%)	1,926	2,530	2,642	449	261	239	247	238	277	419	1,110	872
Below Normal (6%)	536	574	1,472	1,235	350	243	236	267	270	1,186	1,552	2,919
Dry (13%)	642	1,172	1,284	1,095	544	291	257	329	466	1,452	1,417	2,462
Critical (25%)	1,758	1,767	1,767	1,127	769	504	435	697	1,269	1,915	1,660	2,698

Alternative 9 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,171	2,506	2,342	1,253	877	609	460	675	1,093	1,269	1,108	1,690
20%	1,874	1,973	1,672	796	616	450	418	509	688	1,075	944	1,590
30%	1,759	1,938	1,339	632	444	434	405	352	462	888	802	1,472
40%	1,610	1,794	991	621	406	420	380	337	409	800	777	1,362
50%	1,276	1,511	820	588	403	374	345	319	391	676	709	1,226
60%	431	463	613	448	375	348	308	309	376	543	673	1,187
70%	368	425	513	430	329	265	270	291	357	487	622	482
80%	344	362	356	356	286	239	240	264	341	425	602	428
90%	313	296	263	310	259	230	220	213	307	367	594	363
Long Term												
Full Simulation Period[a]	1,160	1,377	1,094	700	506	389	352	383	538	772	781	1,078
Water Year Types[b]												
Wet (31%)	772	890	418	360	262	240	227	242	311	392	634	367
Above Normal (25%)	1,960	2,315	1,384	402	322	288	272	252	355	413	569	475
Below Normal (6%)	379	455	695	621	400	269	274	309	329	569	789	1,697
Dry (13%)	849	1,272	1,160	715	508	402	367	332	400	770	723	1,374
Critical (25%)	1,557	1,661	1,544	1,094	795	564	489	603	947	1,261	1,028	1,526

Alternative 9 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-96	-370	-20	-206	-136	106	18	-105	-403	-716	-584	-1,213
20%	-140	-709	-575	-442	-15	33	55	17	-40	-779	-637	-1,127
30%	-208	-415	-595	-559	-16	95	114	-32	-99	-832	-757	-1,100
40%	-90	-304	-563	-479	-9	111	102	-19	-94	-867	-694	-1,106
50%	-289	-401	-663	-172	76	107	87	11	-14	-655	-692	-1,165
60%	-105	-198	-653	-212	72	92	71	42	32	-268	-485	-985
70%	48	-58	-368	-60	69	25	41	45	39	30	-500	-471
80%	84	98	-73	21	36	5	22	21	72	-13	-472	-356
90%	58	74	-8	57	31	4	11	6	75	33	-422	-260
Long Term												
Full Simulation Period[a]	-102	-183	-342	-146	18	57	53	-19	-94	-405	-579	-837
Water Year Types[b]												
Wet (31%)	-339	-564	-141	14	33	10	13	20	38	35	-371	-292
Above Normal (25%)	34	-215	-1,258	-47	61	49	26	14	78	-6	-541	-397
Below Normal (6%)	-157	-119	-777	-614	50	26	38	42	59	-617	-763	-1,222
Dry (13%)	206	100	-124	-380	-36	111	110	3	-66	-681	-694	-1,088
Critical (25%)	-202	-106	-223	-33	26	60	54	-94	-322	-654	-632	-1,172

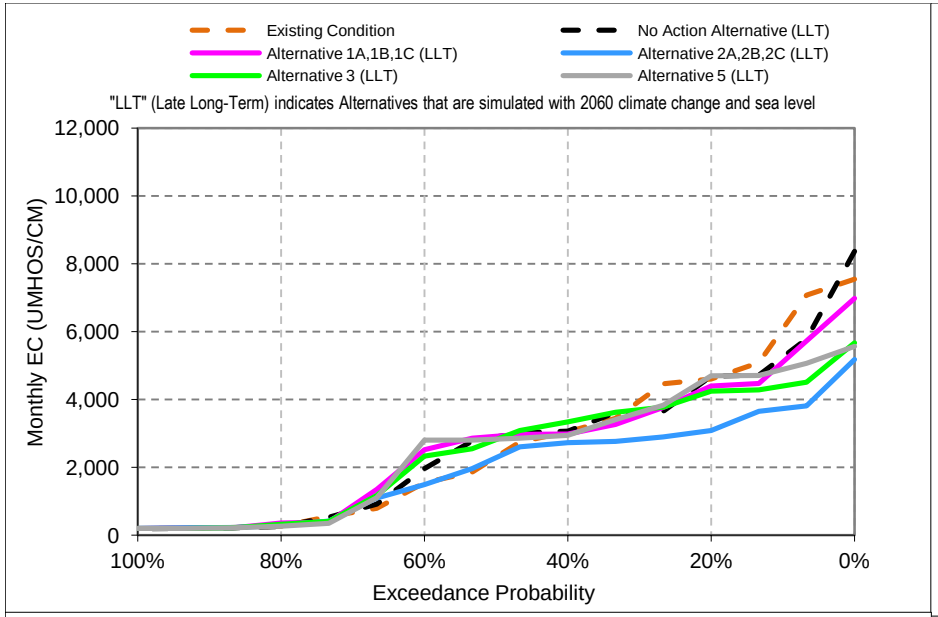
a Based on the 16-year simulation period

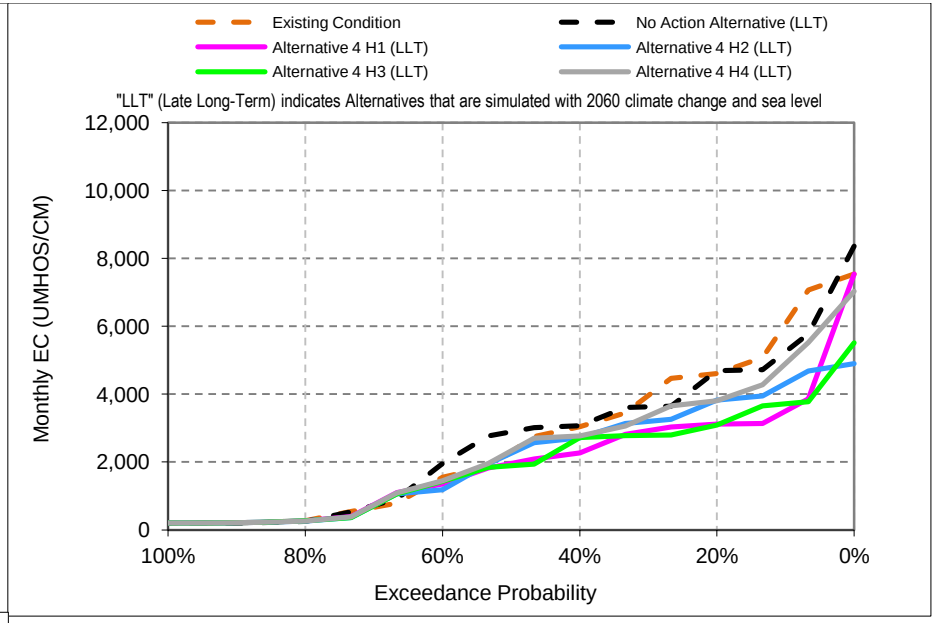
b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

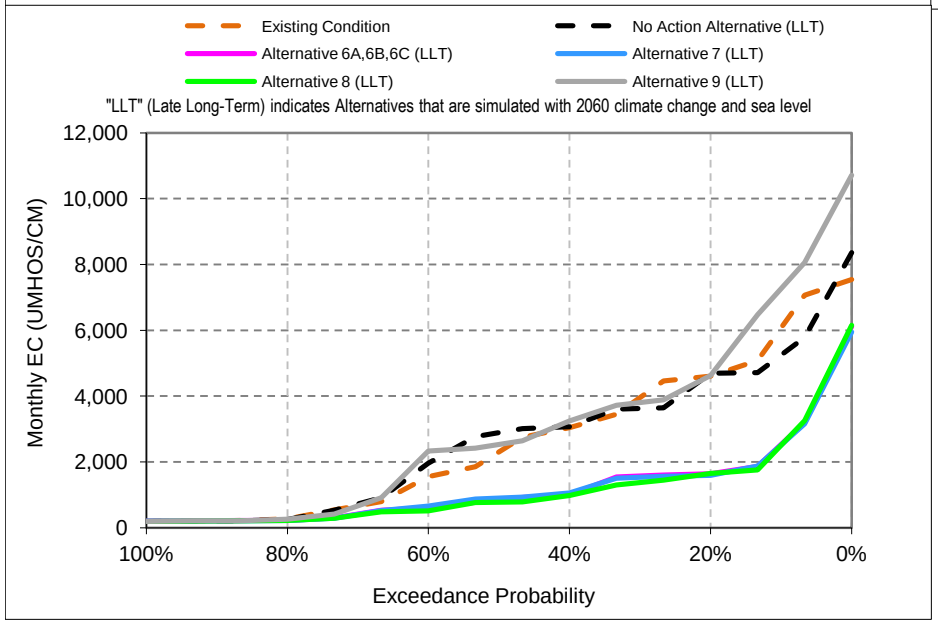
Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

C.35. Sacramento River at Collinsville Salinity



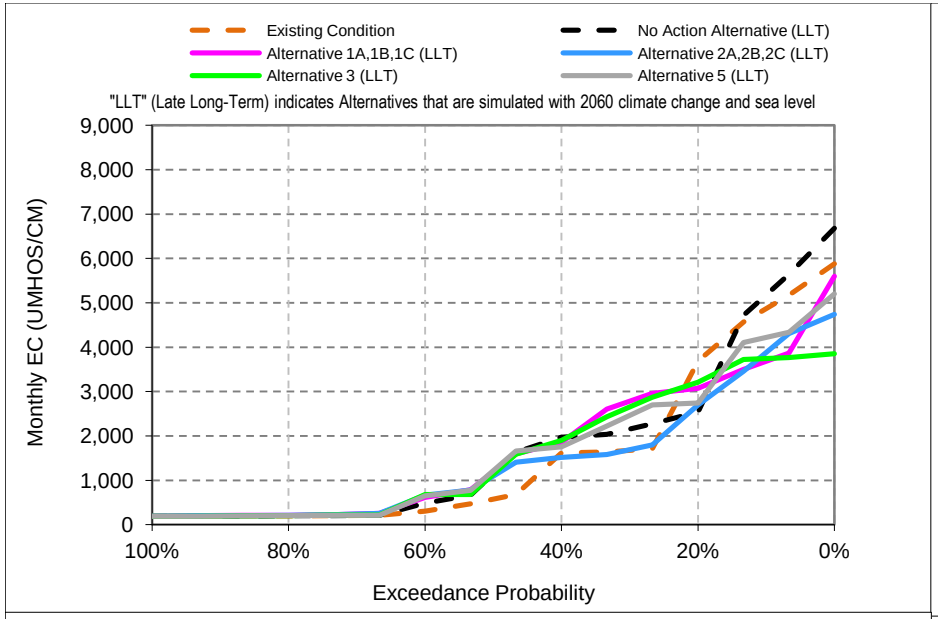


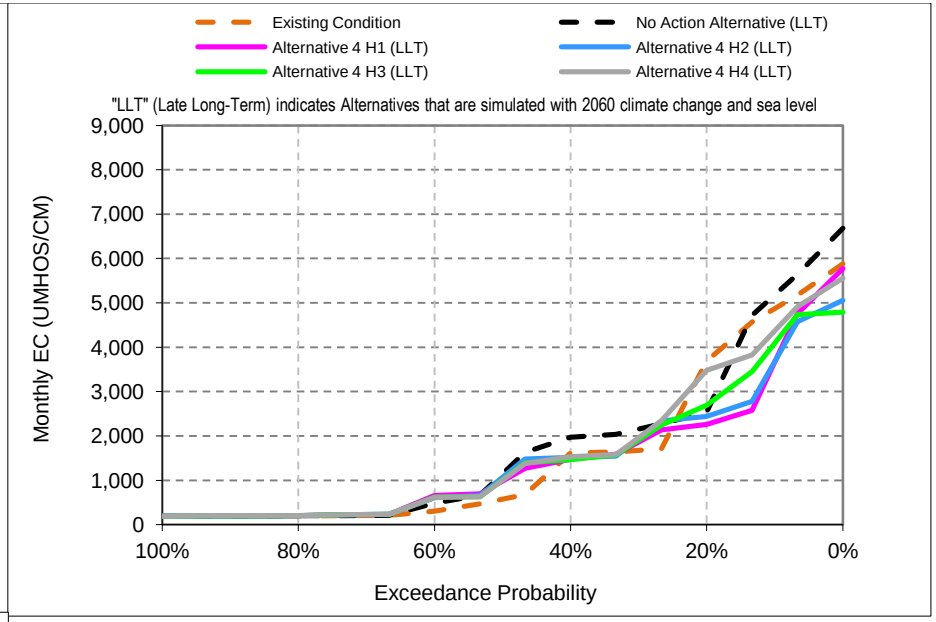


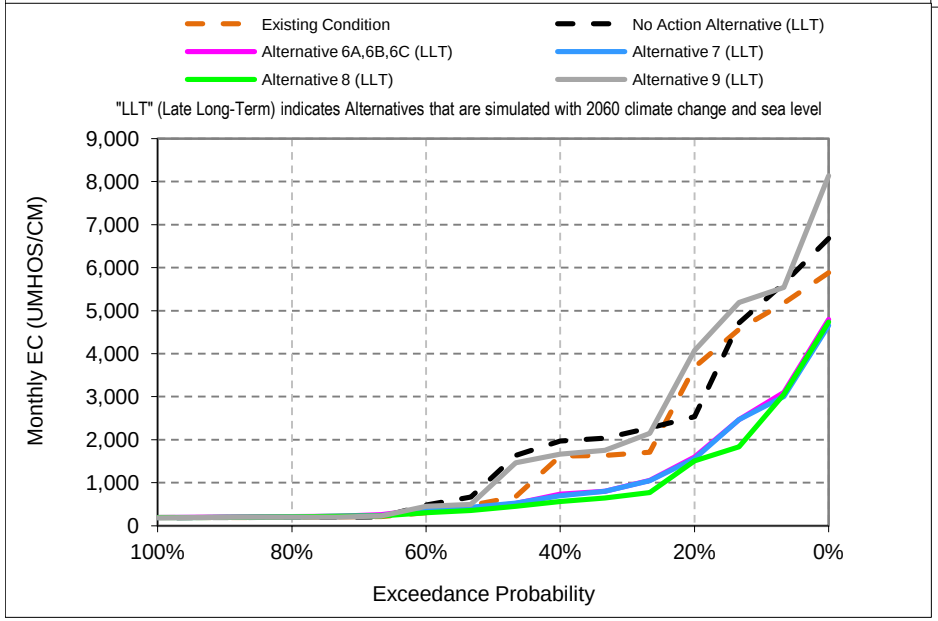
Alternative 4 Scenario Definitions:

H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

Figure C-35-1. Sacramento River at Collinsville, January EC



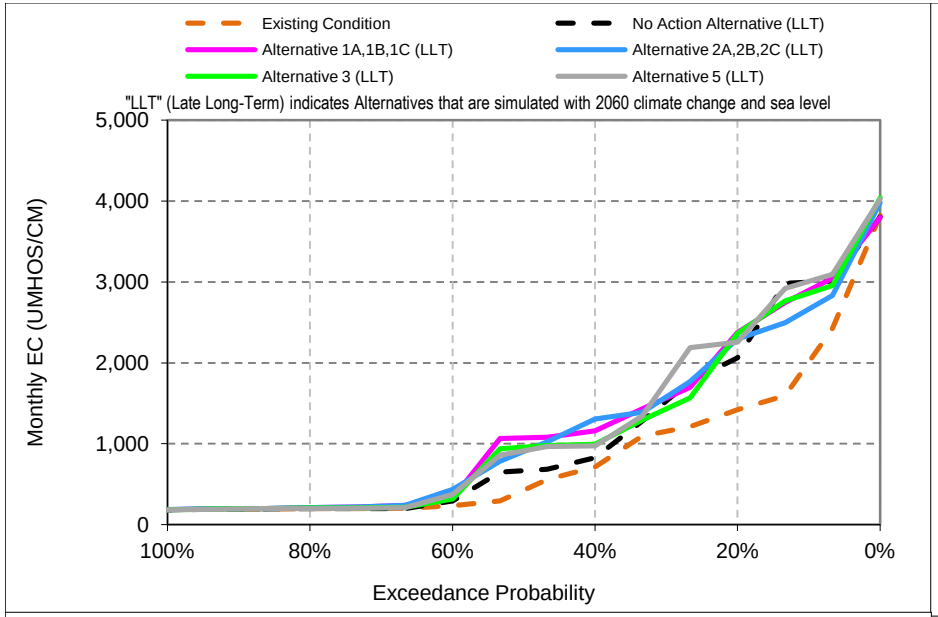


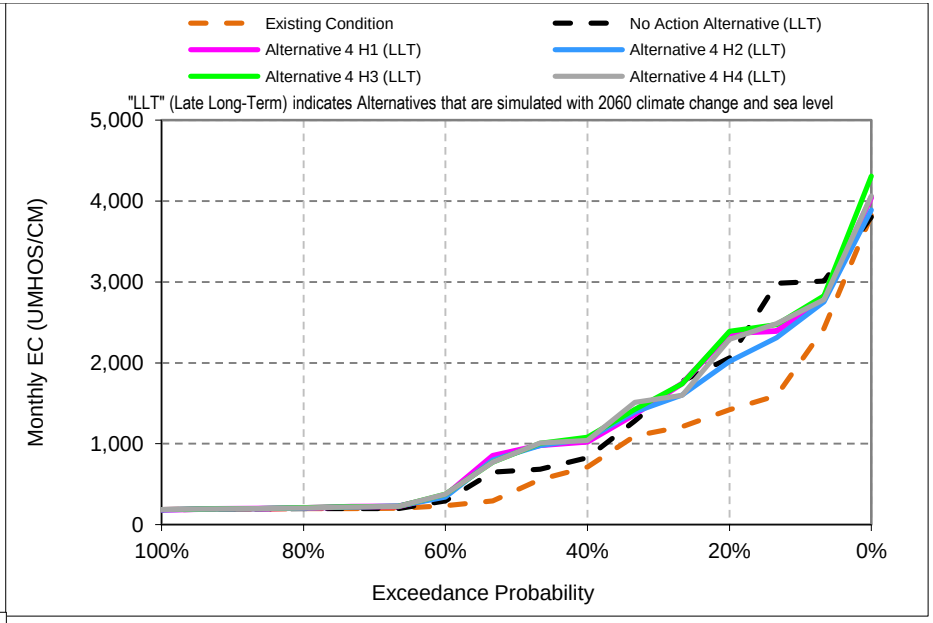


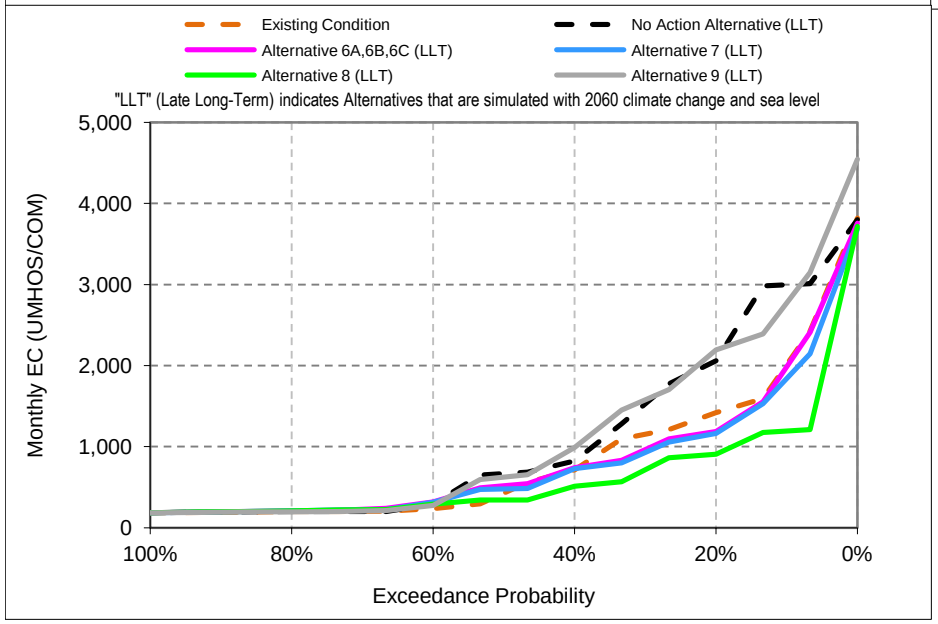
Alternative 4 Scenario Definitions:

H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

Figure C-35-2. Sacramento River at Collinsville, February EC



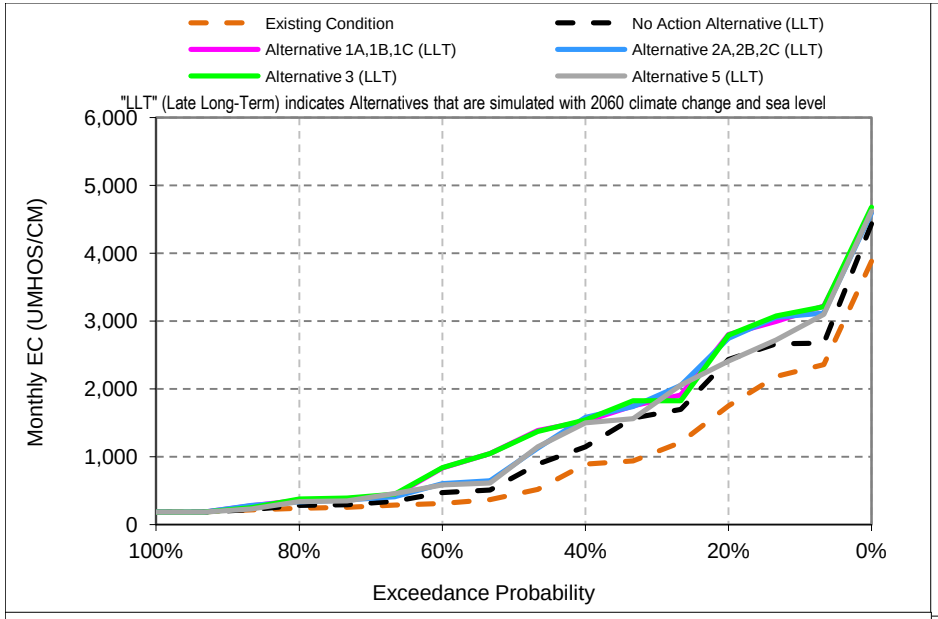


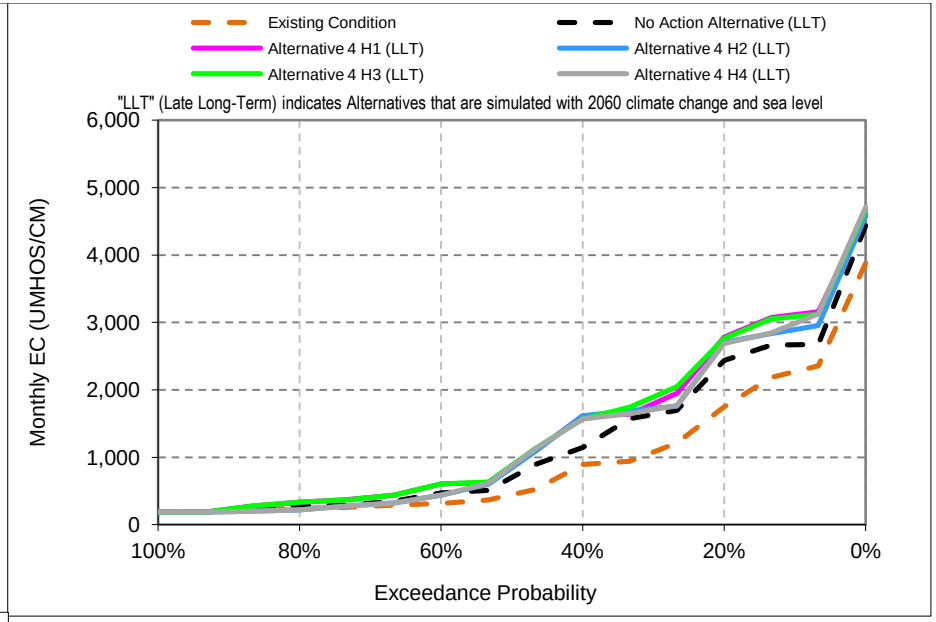


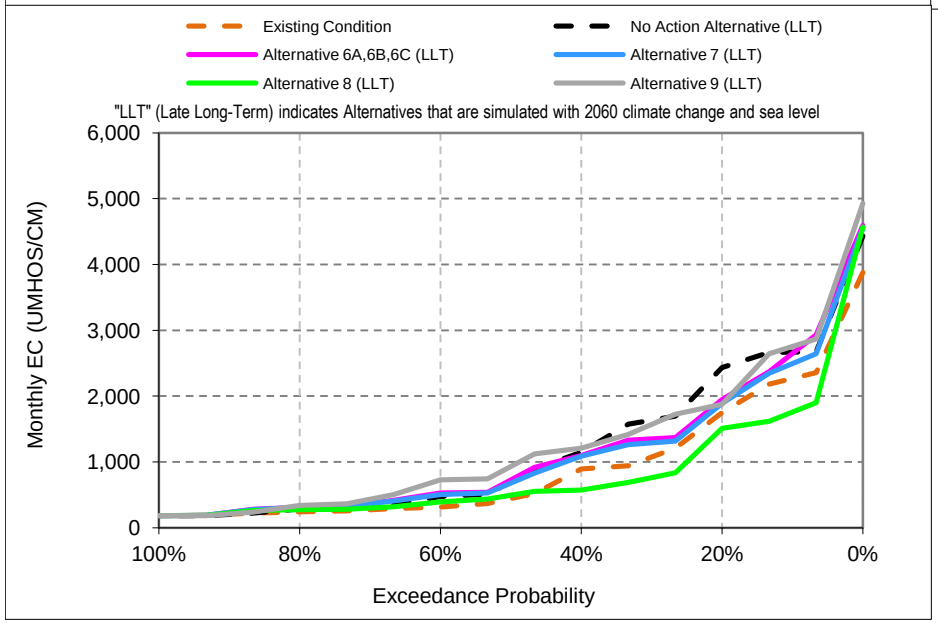
Alternative 4 Scenario Definitions:

H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

Figure C-35-3. Sacramento River at Collinsville, March EC



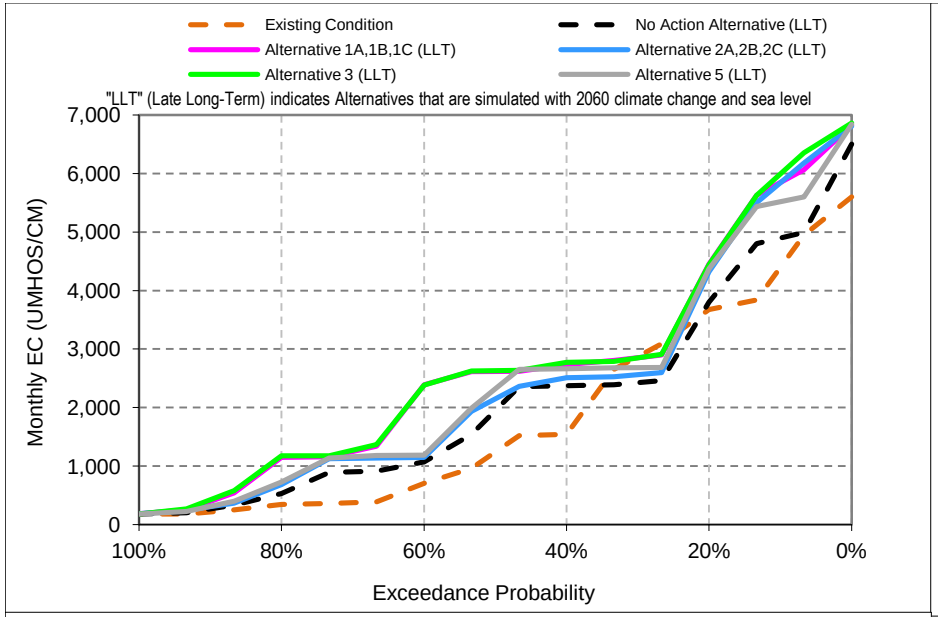


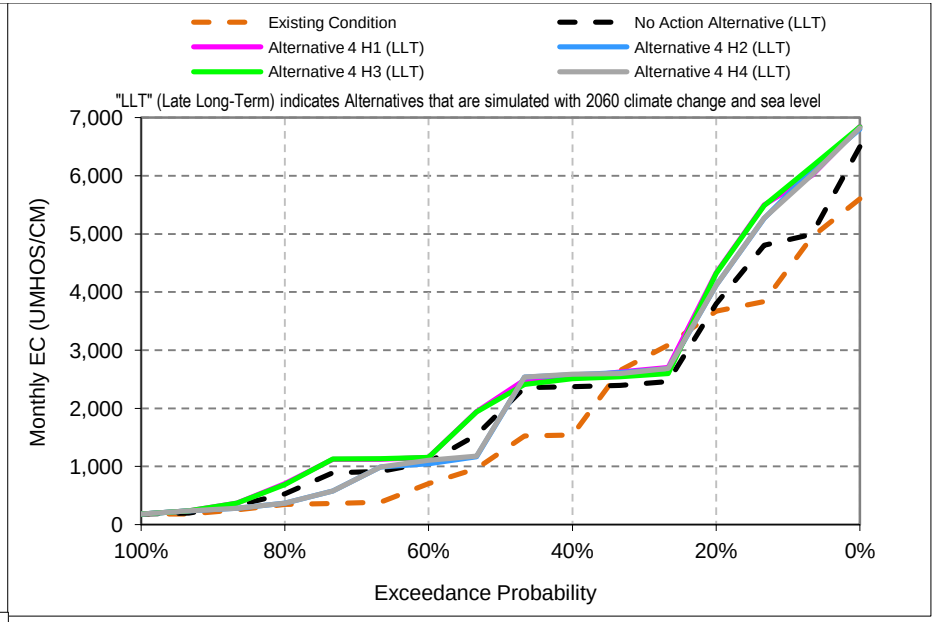


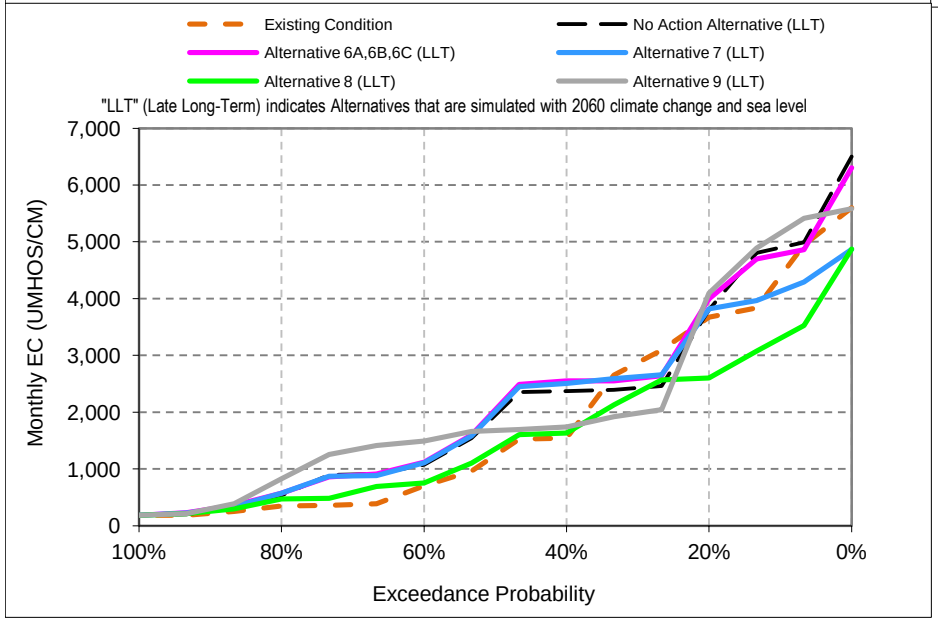
Alternative 4 Scenario Definitions:

H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

Figure C-35-4. Sacramento River at Collinsville, April EC



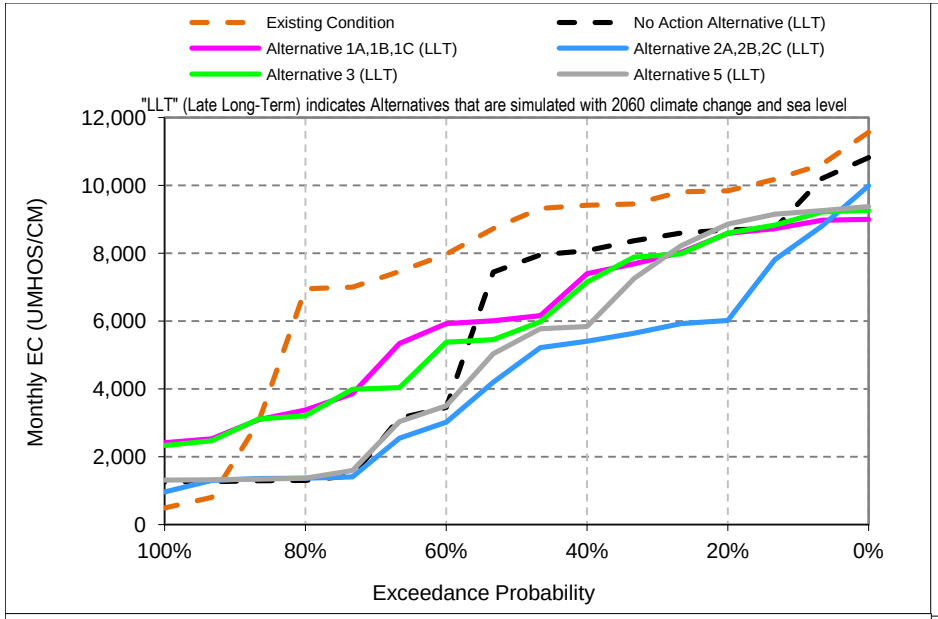


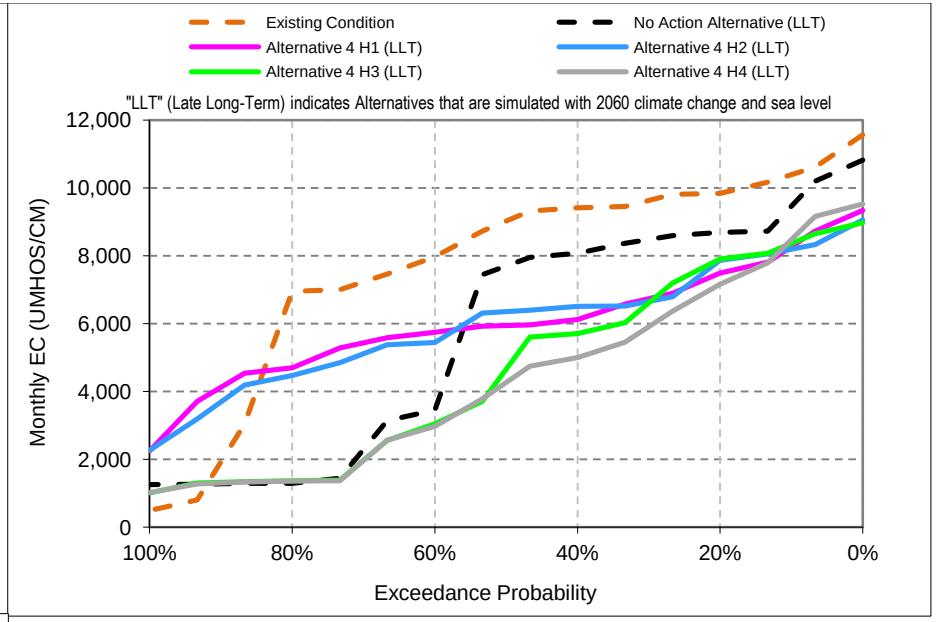


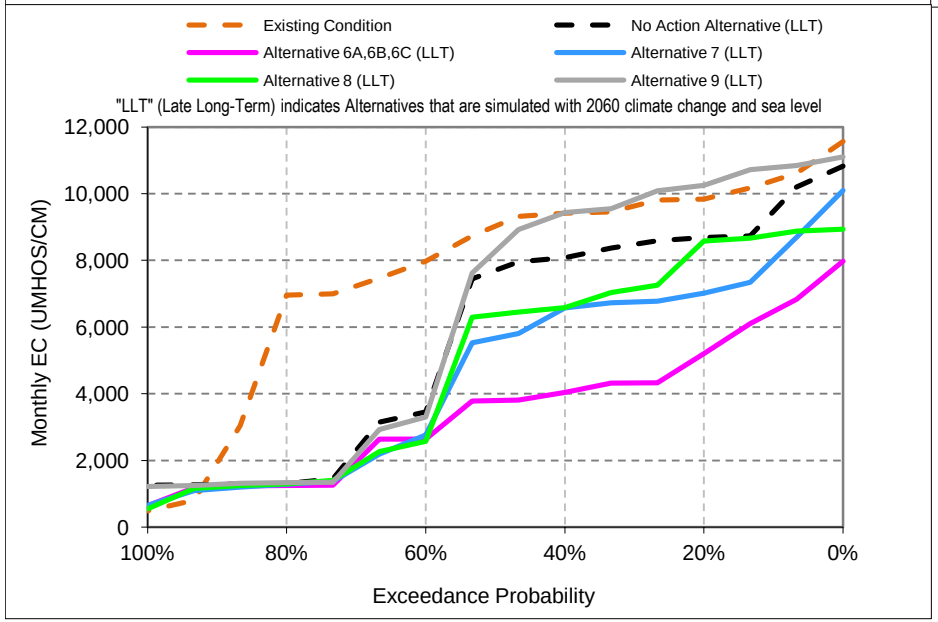
Alternative 4 Scenario Definitions:

H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

Figure C-35-5. Sacramento River at Collinsville, May EC



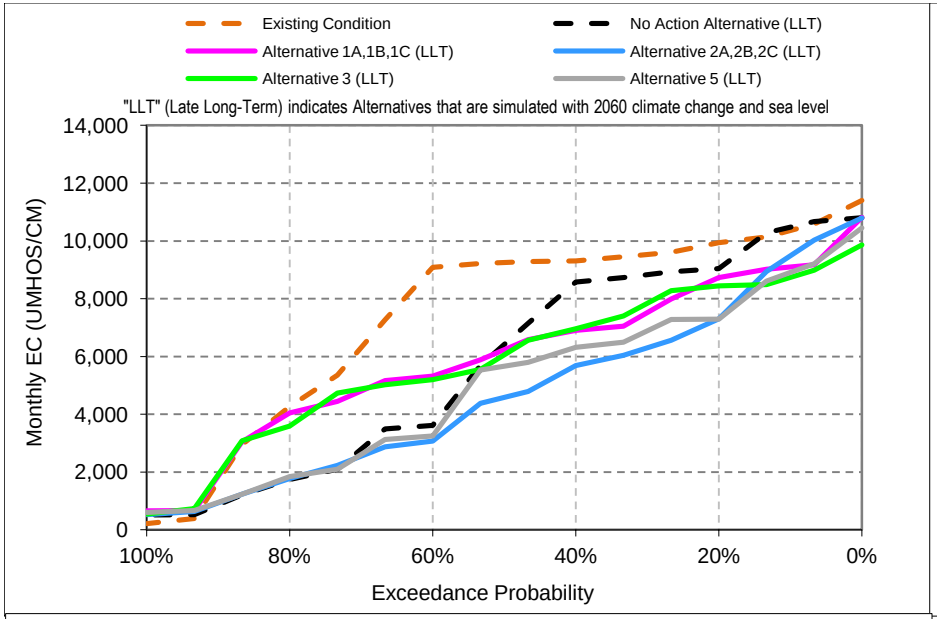


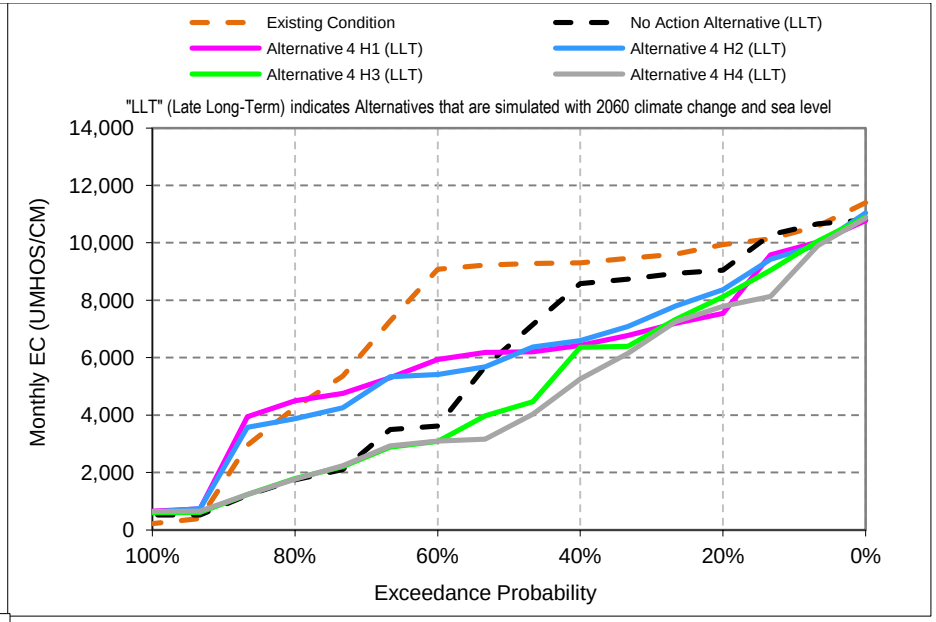


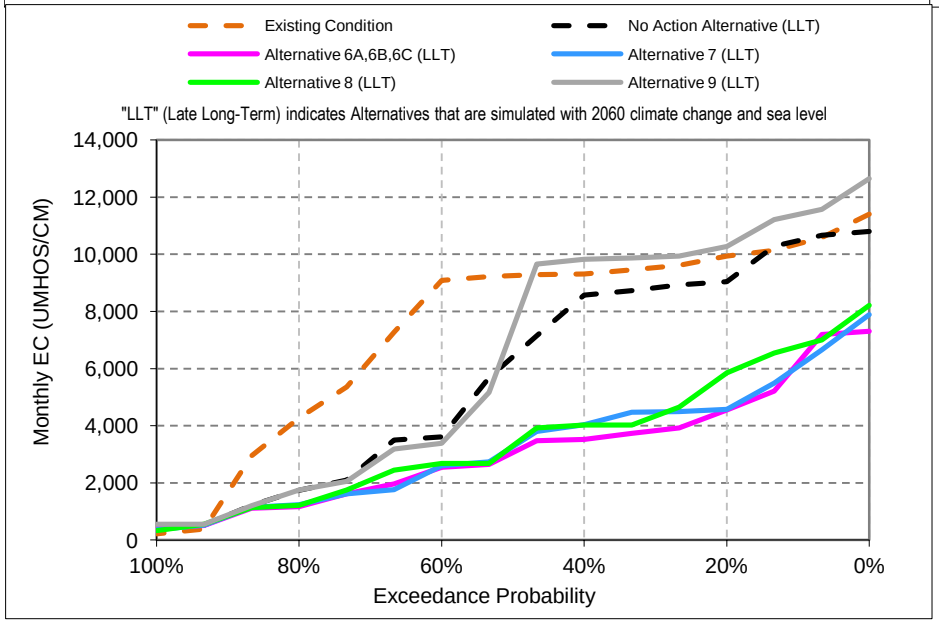
Alternative 4 Scenario Definitions:

H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

Figure C-35-6. Sacramento River at Collinsville, October EC



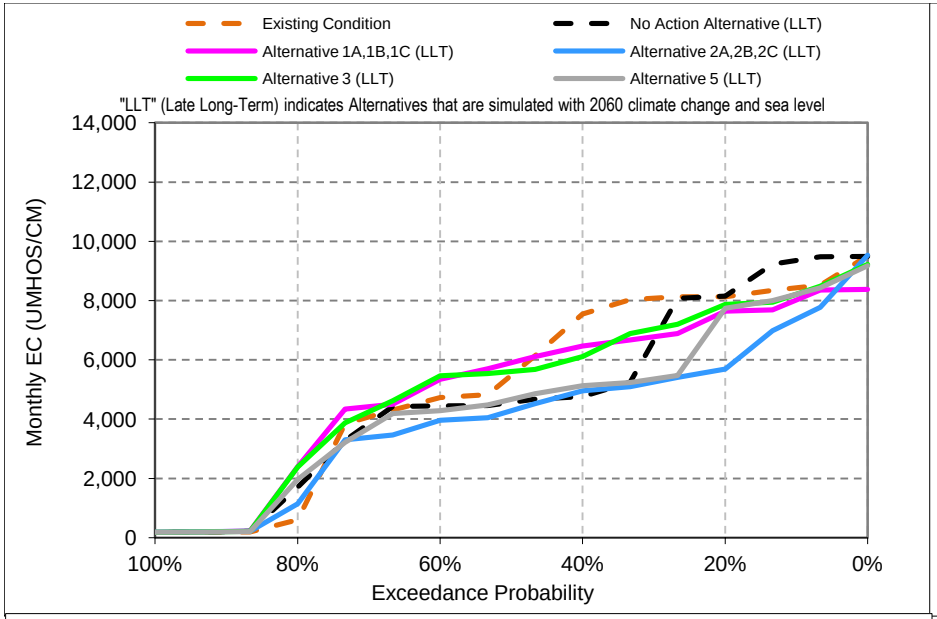


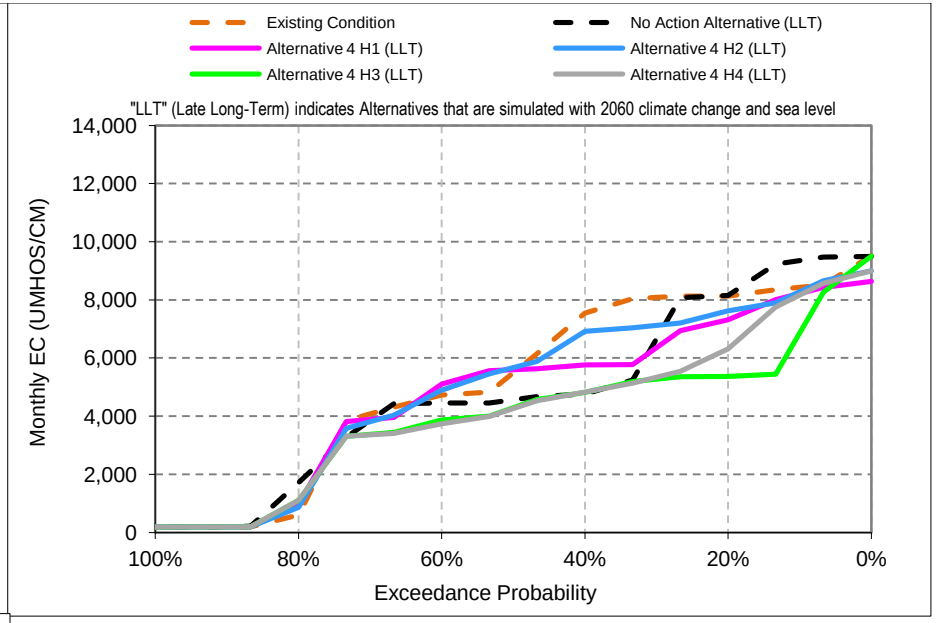


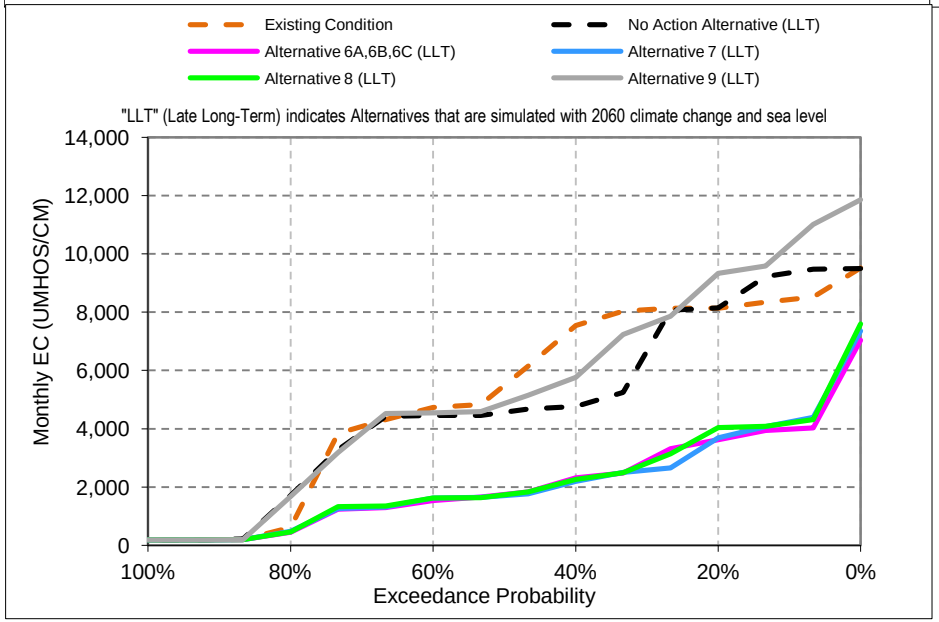
Alternative 4 Scenario Definitions:

H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

Figure C-35-7. Sacramento River at Collinsville, November EC







Alternative 4 Scenario Definitions:

H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

Figure C-35-8. Sacramento River at Collinsville, December EC

Table C-35-1. Sacramento River at Collinsville, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	10,394	10,358	8,432	6,076	4,870	2,011	2,270	4,392	6,806	7,799	7,948	9,554
20%	9,839	9,941	8,134	4,604	3,685	1,419	1,748	3,674	5,180	6,392	7,393	9,293
30%	9,634	9,531	8,085	3,955	1,676	1,154	1,076	2,872	4,026	5,912	6,456	8,642
40%	9,415	9,308	7,543	3,041	1,617	713	892	1,542	3,067	4,966	5,734	8,304
50%	9,024	9,252	5,486	2,301	575	427	444	1,243	3,014	4,859	5,087	7,861
60%	7,976	9,083	4,728	1,548	303	234	313	704	2,027	3,510	4,888	7,485
70%	7,234	6,314	4,077	667	209	202	273	375	1,390	2,638	4,742	7,217
80%	6,957	4,267	607	267	197	199	242	346	922	2,141	4,642	6,593
90%	1,923	1,669	193	210	192	191	204	218	495	1,911	4,429	3,940
Long Term												
Full Simulation Period[a]	7,666	7,404	5,204	2,726	1,682	909	987	1,891	3,213	4,503	5,580	7,280
Water Year Types[b]												
Wet (31%)	4,965	3,975	1,220	617	193	191	235	354	959	1,797	3,537	4,029
Above Normal (25%)	10,211	8,928	6,136	404	209	201	231	307	797	2,126	4,742	6,697
Below Normal (6%)	7,467	9,083	8,517	3,446	472	234	368	388	1,475	3,510	4,895	8,304
Dry (13%)	8,027	8,294	5,808	3,496	2,031	666	729	1,670	3,219	5,090	5,438	7,789
Critical (25%)	8,560	8,489	6,872	4,581	3,427	2,095	2,222	4,230	6,327	7,346	7,801	9,503

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,466	10,474	9,351	5,249	5,178	2,997	2,669	4,898	7,206	7,349	8,047	9,919
20%	8,689	9,043	8,149	4,689	2,537	2,061	2,435	3,800	5,094	5,689	6,863	9,582
30%	8,482	8,831	6,659	3,627	2,154	1,528	1,635	2,426	4,021	5,603	6,436	9,224
40%	8,079	8,575	4,758	3,066	1,968	826	1,146	2,371	3,773	5,167	5,804	8,710
50%	7,701	6,421	4,566	2,892	1,149	668	702	1,948	3,137	4,434	4,835	8,565
60%	3,458	3,614	4,452	1,962	482	293	473	1,073	2,548	2,648	4,582	7,862
70%	2,294	2,798	3,854	720	205	200	319	903	2,292	2,245	4,374	3,305
80%	1,300	1,746	1,710	254	200	199	284	531	1,587	2,024	4,325	2,180
90%	1,279	866	204	205	190	193	204	267	1,173	1,498	4,171	1,579
Long Term												
Full Simulation Period[a]	5,753	5,817	4,876	2,744	1,863	1,159	1,251	2,209	3,621	4,217	5,596	6,608
Water Year Types[b]												
Wet (31%)	4,787	3,915	1,316	641	192	194	283	709	1,563	1,702	4,210	1,691
Above Normal (25%)	8,825	8,910	6,415	391	205	197	254	432	1,710	1,925	4,247	3,305
Below Normal (6%)	3,458	3,614	5,247	3,016	665	293	511	893	1,587	4,363	5,804	8,710
Dry (13%)	3,597	4,406	4,692	4,020	2,360	984	1,128	2,048	3,479	4,502	5,279	8,590
Critical (25%)	7,480	7,672	7,181	4,293	3,705	2,628	2,671	4,511	6,552	6,889	7,458	9,856

No Action Alternative (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-928	**116**	**919**	-827	**308**	**987**	**399**	**506**	**401**	-450	**100**	**366**
20%	-1,150	-898	**15**	**85**	-1,149	**642**	**687**	**126**	-86	-703	-530	**289**
30%	-1,152	-700	-1,425	-328	**478**	**374**	**560**	-446	-5	-309	-20	**582**
40%	-1,336	-733	-2,785	**25**	**351**	**112**	**254**	**830**	**706**	**201**	**71**	**406**
50%	-1,323	-2,832	-920	**591**	**574**	**240**	**258**	**705**	**123**	-425	-252	**703**
60%	-4,518	-5,469	-276	**413**	**179**	**59**	**160**	**369**	**521**	-862	-306	**377**
70%	-4,940	-3,516	-223	**54**	-4	-2	**46**	**528**	**902**	-392	-369	-3,912
80%	-5,657	-2,521	**1,103**	-13	**3**	**1**	**42**	**186**	**665**	-117	-317	-4,413
90%	-644	-803	**11**	-5	-3	**2**	**0**	**48**	**678**	-413	-258	-2,360
Long Term												
Full Simulation Period[a]	-1,913	-1,587	-328	**18**	**180**	**250**	**264**	**318**	**407**	-286	**16**	-673
Water Year Types[b]												
Wet (31%)	-178	-60	**96**	**24**	-1	**2**	**48**	**355**	**604**	-95	**673**	-2,338
Above Normal (25%)	-1,386	-18	**279**	-13	-4	-4	**23**	**125**	**913**	-201	-495	-3,392
Below Normal (6%)	-4,009	-5,469	-3,270	-430	**193**	**59**	**143**	**505**	**112**	**853**	**909**	**406**
Dry (13%)	-4,430	-3,889	-1,116	**524**	**329**	**318**	**399**	**377**	**260**	-588	-160	**801**
Critical (25%)	-1,080	-817	**309**	-288	**278**	**533**	**449**	**282**	**225**	-457	-343	**353**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

Table C-35-2. Sacramento River at Collinsville, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	10,394	10,358	8,432	6,076	4,870	2,011	2,270	4,392	6,806	7,799	7,948	9,554
20%	9,839	9,941	8,134	4,604	3,685	1,419	1,748	3,674	5,180	6,392	7,393	9,293
30%	9,634	9,531	8,085	3,955	1,676	1,154	1,076	2,872	4,026	5,912	6,456	8,642
40%	9,415	9,308	7,543	3,041	1,617	713	892	1,542	3,067	4,966	5,734	8,304
50%	9,024	9,252	5,486	2,301	575	427	444	1,243	3,014	4,859	5,087	7,861
60%	7,976	9,083	4,728	1,548	303	234	313	704	2,027	3,510	4,888	7,485
70%	7,234	6,314	4,077	667	209	202	273	375	1,390	2,638	4,742	7,217
80%	6,957	4,267	607	267	197	199	242	346	922	2,141	4,642	6,593
90%	1,923	1,669	193	210	192	191	204	218	495	1,911	4,429	3,940
Long Term												
Full Simulation Period[a]	7,666	7,404	5,204	2,726	1,682	909	987	1,891	3,213	4,503	5,580	7,280
Water Year Types[b]												
Wet (31%)	4,965	3,975	1,220	617	193	191	235	354	959	1,797	3,537	4,029
Above Normal (25%)	10,211	8,928	6,136	404	209	201	231	307	797	2,126	4,742	6,697
Below Normal (6%)	7,467	9,083	8,517	3,446	472	234	368	388	1,475	3,510	4,895	8,304
Dry (13%)	8,027	8,294	5,808	3,496	2,031	666	729	1,670	3,219	5,090	5,438	7,789
Critical (25%)	8,560	8,489	6,872	4,581	3,427	2,095	2,222	4,230	6,327	7,346	7,801	9,503

Alternative 1A,1B,1C (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	8,850	9,099	8,022	5,096	3,683	2,895	3,110	5,845	8,101	8,512	9,060	9,897
20%	8,585	8,737	7,643	4,398	3,077	2,375	2,802	4,449	5,469	7,998	8,022	9,494
30%	7,855	7,516	6,781	3,514	2,781	1,566	1,829	2,854	4,767	6,712	7,813	9,291
40%	7,395	6,903	6,472	2,983	1,854	1,161	1,522	2,736	3,697	6,471	7,367	9,022
50%	6,083	6,240	5,904	2,908	1,190	1,072	1,219	2,618	3,333	5,397	6,562	8,741
60%	5,925	5,322	5,349	2,514	615	326	836	2,388	3,293	3,563	6,040	8,560
70%	4,599	4,810	4,424	866	238	228	406	1,250	2,719	3,386	5,847	8,448
80%	3,381	4,050	2,398	360	212	209	358	1,149	2,260	3,156	5,594	7,547
90%	2,811	1,864	212	220	207	198	234	398	1,200	2,875	5,433	6,698
Long Term												
Full Simulation Period[a]	6,069	5,971	5,069	2,665	1,734	1,248	1,495	2,729	4,067	5,312	6,908	8,370
Water Year Types[b]												
Wet (31%)	4,829	3,097	1,237	901	208	202	391	1,170	1,753	2,552	5,699	7,518
Above Normal (25%)	6,429	7,431	5,910	371	229	219	331	850	2,164	3,359	5,908	8,791
Below Normal (6%)	3,091	4,450	6,886	3,263	615	326	1,049	2,388	2,260	5,074	7,624	10,054
Dry (13%)	7,877	7,922	5,891	3,401	2,356	1,251	1,312	2,328	3,676	5,561	6,365	8,256
Critical (25%)	6,066	6,429	6,777	4,286	3,283	2,679	3,077	5,117	7,353	8,150	8,566	8,638

Alternative 1A,1B,1C (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,543	-1,259	-411	-980	-1,187	**884**	**840**	**1,454**	**1,295**	**714**	**1,112**	**343**
20%	-1,254	-1,205	-490	-206	-608	**956**	**1,054**	**775**	**289**	**1,606**	**629**	**201**
30%	-1,779	-2,014	-1,303	-441	**1,106**	**412**	**753**	-18	**741**	**800**	**1,357**	**650**
40%	-2,020	-2,405	-1,072	-58	**236**	**447**	**630**	**1,194**	**630**	**1,505**	**1,633**	**718**
50%	-2,940	-3,013	**418**	**608**	**615**	**645**	**775**	**1,375**	**320**	**538**	**1,475**	**880**
60%	-2,051	-3,762	**621**	**966**	**312**	**92**	**523**	**1,684**	**1,266**	**53**	**1,152**	**1,075**
70%	-2,635	-1,504	**346**	**199**	**29**	**27**	**133**	**875**	**1,329**	**748**	**1,105**	**1,231**
80%	-3,576	-217	**1,791**	**93**	**15**	**10**	**116**	**804**	**1,338**	**1,015**	**952**	**954**
90%	**888**	**195**	**18**	**10**	**15**	**7**	**30**	**179**	**705**	**963**	**1,004**	**2,758**
Long Term												
Full Simulation Period[a]	-1,597	-1,433	-135	-61	**52**	**339**	**507**	**838**	**853**	**809**	**1,327**	**1,090**
Water Year Types[b]												
Wet (31%)	-136	-878	**17**	**284**	**16**	**11**	**157**	**816**	**794**	**754**	**2,162**	**3,489**
Above Normal (25%)	-3,783	-1,497	-226	-33	**20**	**17**	**100**	**543**	**1,367**	**1,234**	**1,166**	**2,094**
Below Normal (6%)	-4,376	-4,634	-1,631	-182	**143**	**92**	**681**	**2,000**	**785**	**1,564**	**2,729**	**1,750**
Dry (13%)	-151	-372	**83**	-95	**325**	**585**	**584**	**657**	**457**	**471**	**927**	**467**
Critical (25%)	-2,494	-2,060	-95	-295	-144	**585**	**855**	**887**	**1,027**	**804**	**764**	-865

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-35-3. Sacramento River at Collinsville, Monthly EC

Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	10,394	10,358	8,432	6,076	4,870	2,011	2,270	4,392	6,806	7,799	7,948	9,554
20%	9,839	9,941	8,134	4,604	3,685	1,419	1,748	3,674	5,180	6,392	7,393	9,293
30%	9,634	9,531	8,085	3,955	1,676	1,154	1,076	2,872	4,026	5,912	6,456	8,642
40%	9,415	9,308	7,543	3,041	1,617	713	892	1,542	3,067	4,966	5,734	8,304
50%	9,024	9,252	5,486	2,301	575	427	444	1,243	3,014	4,859	5,087	7,861
60%	7,976	9,083	4,728	1,548	303	234	313	704	2,027	3,510	4,888	7,485
70%	7,234	6,314	4,077	667	209	202	273	375	1,390	2,638	4,742	7,217
80%	6,957	4,267	607	267	197	199	242	346	922	2,141	4,642	6,593
90%	1,923	1,669	193	210	192	191	204	218	495	1,911	4,429	3,940
Long Term												
Full Simulation Period[a]	7,666	7,404	5,204	2,726	1,682	909	987	1,891	3,213	4,503	5,580	7,280
Water Year Types[b]												
Wet (31%)	4,965	3,975	1,220	617	193	191	235	354	959	1,797	3,537	4,029
Above Normal (25%)	10,211	8,928	6,136	404	209	201	231	307	797	2,126	4,742	6,697
Below Normal (6%)	7,467	9,083	8,517	3,446	472	234	368	388	1,475	3,510	4,895	8,304
Dry (13%)	8,027	8,294	5,808	3,496	2,031	666	729	1,670	3,219	5,090	5,438	7,789
Critical (25%)	8,560	8,489	6,872	4,581	3,427	2,095	2,222	4,230	6,327	7,346	7,801	9,503

Alternative 2A,2B,2C (LLT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	8,298	9,484	7,380	3,731	3,881	2,664	3,088	5,839	8,127	8,612	8,924	9,787
20%	6,019	7,299	5,687	3,087	2,698	2,296	2,745	4,320	5,636	8,116	8,347	9,602
30%	5,784	6,304	5,256	2,830	1,687	1,579	1,898	2,562	4,668	6,483	7,795	8,971
40%	5,404	5,682	4,956	2,725	1,520	1,304	1,579	2,510	3,704	6,178	6,751	8,317
50%	4,711	4,586	4,286	2,281	1,093	906	888	2,152	3,362	5,458	6,568	7,965
60%	3,016	3,077	3,966	1,491	664	437	603	1,150	3,228	3,496	6,203	6,574
70%	1,980	2,553	3,384	752	238	229	388	1,130	2,222	3,264	5,702	3,323
80%	1,372	1,781	1,145	280	212	210	333	685	1,756	3,161	5,571	2,309
90%	1,331	935	206	219	204	198	235	309	1,153	2,882	5,466	1,879
Long Term												
Full Simulation Period[a]	4,436	4,805	4,156	2,036	1,514	1,223	1,439	2,478	3,968	5,276	6,909	6,397
Water Year Types[b]												
Wet (31%)	3,309	3,313	1,160	649	207	203	327	877	1,730	2,597	5,755	1,959
Above Normal (25%)	6,496	7,585	5,321	347	231	219	324	527	1,632	3,113	5,639	3,323
Below Normal (6%)	3,016	3,077	5,101	2,725	778	437	648	1,150	1,756	4,881	7,537	9,937
Dry (13%)	3,258	4,228	3,636	2,822	2,083	1,221	1,293	2,132	3,655	5,624	6,578	8,529
Critical (25%)	5,739	5,694	6,314	3,057	2,767	2,598	3,051	5,080	7,385	8,086	8,480	8,765

Alternative 2A,2B,2C (LLT) minus Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-2,095	-874	-1,052	-2,346	-989	**653**	**817**	**1,447**	**1,321**	**814**	**976**	**233**
20%	-3,820	-2,642	-2,447	-1,517	-987	**877**	**997**	**646**	**456**	**1,725**	**955**	**309**
30%	-3,850	-3,227	-2,829	-1,125	**11**	**425**	**822**	-310	**642**	**571**	**1,339**	**329**
40%	-4,011	-3,626	-2,588	-316	-98	**591**	**687**	**968**	**637**	**1,212**	**1,017**	**13**
50%	-4,313	-4,667	-1,200	-19	**517**	**479**	**444**	**909**	**348**	**599**	**1,481**	**103**
60%	-4,960	-6,006	-763	-57	**360**	**203**	**290**	**447**	**1,202**	-14	**1,315**	-911
70%	-5,254	-3,760	-693	**85**	**29**	**27**	**115**	**755**	**832**	**627**	**960**	-3,894
80%	-5,584	-2,486	**539**	**14**	**15**	**11**	**91**	**340**	**834**	**1,020**	**929**	-4,283
90%	-592	-734	**13**	**9**	**12**	**8**	**31**	**90**	**658**	**971**	**1,037**	-2,060
Long Term												
Full Simulation Period[a]	-3,230	-2,599	-1,048	-689	-168	**314**	**452**	**587**	**754**	**774**	**1,329**	-883
Water Year Types[b]												
Wet (31%)	-1,656	-662	-60	**31**	**14**	**11**	**92**	**523**	**771**	**800**	**2,218**	-2,070
Above Normal (25%)	-3,715	-1,342	-815	-58	**21**	**18**	**93**	**219**	**835**	**987**	**897**	-3,374
Below Normal (6%)	-4,451	-6,006	-3,416	-721	**306**	**203**	**281**	**762**	**281**	**1,371**	**2,642**	**1,633**
Dry (13%)	-4,769	-4,066	-2,172	-674	**52**	**555**	**564**	**462**	**436**	**534**	**1,140**	**740**
Critical (25%)	-2,821	-2,795	-558	-1,525	-660	**504**	**829**	**851**	**1,058**	**740**	**679**	-739

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-35-4. Sacramento River at Collinsville, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	10,394	10,358	8,432	6,076	4,870	2,011	2,270	4,392	6,806	7,799	7,948	9,554
20%	9,839	9,941	8,134	4,604	3,685	1,419	1,748	3,674	5,180	6,392	7,393	9,293
30%	9,634	9,531	8,085	3,955	1,676	1,154	1,076	2,872	4,026	5,912	6,456	8,642
40%	9,415	9,308	7,543	3,041	1,617	713	892	1,542	3,067	4,966	5,734	8,304
50%	9,024	9,252	5,486	2,301	575	427	444	1,243	3,014	4,859	5,087	7,861
60%	7,976	9,083	4,728	1,548	303	234	313	704	2,027	3,510	4,888	7,485
70%	7,234	6,314	4,077	667	209	202	273	375	1,390	2,638	4,742	7,217
80%	6,957	4,267	607	267	197	199	242	346	922	2,141	4,642	6,593
90%	1,923	1,669	193	210	192	191	204	218	495	1,911	4,429	3,940
Long Term												
Full Simulation Period[a]	7,666	7,404	5,204	2,726	1,682	909	987	1,891	3,213	4,503	5,580	7,280
Water Year Types[b]												
Wet (31%)	4,965	3,975	1,220	617	193	191	235	354	959	1,797	3,537	4,029
Above Normal (25%)	10,211	8,928	6,136	404	209	201	231	307	797	2,126	4,742	6,697
Below Normal (6%)	7,467	9,083	8,517	3,446	472	234	368	388	1,475	3,510	4,895	8,304
Dry (13%)	8,027	8,294	5,808	3,496	2,031	666	729	1,670	3,219	5,090	5,438	7,789
Critical (25%)	8,560	8,489	6,872	4,581	3,427	2,095	2,222	4,230	6,327	7,346	7,801	9,503

Alternative 3 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,024	8,741	8,215	4,397	3,745	2,862	3,143	5,990	7,994	8,469	9,068	9,735
20%	8,598	8,447	7,867	4,242	3,214	2,361	2,792	4,439	5,398	7,956	7,808	9,567
30%	7,935	7,846	7,043	3,692	2,650	1,431	1,825	2,848	4,731	6,509	7,640	9,378
40%	7,153	6,958	6,115	3,335	1,897	992	1,543	2,774	3,694	6,371	7,082	9,087
50%	5,721	6,062	5,606	2,813	1,134	958	1,209	2,633	3,520	5,452	6,533	8,772
60%	5,381	5,196	5,465	2,329	680	316	842	2,384	3,318	3,567	5,996	8,397
70%	4,014	4,879	4,251	783	216	212	420	1,272	2,783	3,458	5,752	8,120
80%	3,210	3,597	2,386	315	206	205	376	1,177	2,255	3,155	5,605	7,536
90%	2,796	1,910	203	208	195	196	218	423	1,205	2,846	5,528	7,010
Long Term												
Full Simulation Period[a]	5,932	5,843	5,117	2,492	1,620	1,213	1,503	2,760	4,078	5,311	6,881	8,360
Water Year Types[b]												
Wet (31%)	4,680	3,628	1,303	735	199	200	401	1,182	1,802	2,576	5,689	7,363
Above Normal (25%)	6,236	6,731	5,572	359	211	203	314	878	2,181	3,361	5,832	8,662
Below Normal (6%)	4,038	5,023	7,198	3,335	682	316	1,046	2,384	2,255	5,113	7,577	10,161
Dry (13%)	7,945	7,741	5,814	3,611	2,299	1,119	1,297	2,345	3,751	5,537	6,442	8,453
Critical (25%)	5,581	5,906	7,013	3,686	2,966	2,684	3,117	5,182	7,285	8,139	8,466	8,601

Alternative 3 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,370	-1,616	-217	-1,679	-1,125	**851**	**873**	**1,598**	**1,188**	**670**	**1,120**	**181**
20%	-1,241	-1,494	-267	-362	-471	**942**	**1,044**	**765**	**217**	**1,564**	**416**	**274**
30%	-1,698	-1,685	-1,041	-263	**974**	**277**	**749**	-23	**706**	**598**	**1,184**	**736**
40%	-2,262	-2,350	-1,429	**294**	**279**	**278**	**651**	**1,233**	**627**	**1,405**	**1,348**	**783**
50%	-3,303	-3,190	**120**	**512**	**559**	**530**	**765**	**1,390**	**506**	**593**	**1,446**	**911**
60%	-2,595	-3,888	**737**	**781**	**377**	**83**	**529**	**1,681**	**1,291**	**57**	**1,108**	**913**
70%	-3,220	-1,435	**174**	**116**	**7**	**10**	**147**	**897**	**1,393**	**820**	**1,009**	**903**
80%	-3,747	-669	**1,779**	**49**	**8**	**6**	**134**	**831**	**1,333**	**1,015**	**963**	**943**
90%	**873**	**241**	**10**	-2	**2**	**6**	**15**	**205**	**710**	**935**	**1,099**	**3,070**
Long Term												
Full Simulation Period[a]	-1,734	-1,561	-87	-234	-62	**305**	**516**	**869**	**865**	**809**	**1,301**	**1,079**
Water Year Types[b]												
Wet (31%)	-285	-347	**83**	**118**	**6**	**8**	**167**	**828**	**843**	**779**	**2,152**	**3,334**
Above Normal (25%)	-3,975	-2,197	-564	-46	**2**	**2**	**83**	**570**	**1,384**	**1,236**	**1,090**	**1,965**
Below Normal (6%)	-3,429	-4,060	-1,319	-110	**210**	**83**	**678**	**1,996**	**779**	**1,603**	**2,682**	**1,857**
Dry (13%)	-83	-553	**6**	**115**	**268**	**453**	**568**	**674**	**532**	**447**	**1,004**	**664**
Critical (25%)	-2,979	-2,584	**141**	-895	-461	**589**	**895**	**952**	**958**	**793**	**664**	-902

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-35-5. Sacramento River at Collinsville, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	10,394	10,358	8,432	6,076	4,870	2,011	2,270	4,392	6,806	7,799	7,948	9,554
20%	9,839	9,941	8,134	4,604	3,685	1,419	1,748	3,674	5,180	6,392	7,393	9,293
30%	9,634	9,531	8,085	3,955	1,676	1,154	1,076	2,872	4,026	5,912	6,456	8,642
40%	9,415	9,308	7,543	3,041	1,617	713	892	1,542	3,067	4,966	5,734	8,304
50%	9,024	9,252	5,486	2,301	575	427	444	1,243	3,014	4,859	5,087	7,861
60%	7,976	9,083	4,728	1,548	303	234	313	704	2,027	3,510	4,888	7,485
70%	7,234	6,314	4,077	667	209	202	273	375	1,390	2,638	4,742	7,217
80%	6,957	4,267	607	267	197	199	242	346	922	2,141	4,642	6,593
90%	1,923	1,669	193	210	192	191	204	218	495	1,911	4,429	3,940
Long Term												
Full Simulation Period[a]	7,666	7,404	5,204	2,726	1,682	909	987	1,891	3,213	4,503	5,580	7,280
Water Year Types[b]												
Wet (31%)	4,965	3,975	1,220	617	193	191	235	354	959	1,797	3,537	4,029
Above Normal (25%)	10,211	8,928	6,136	404	209	201	231	307	797	2,126	4,742	6,697
Below Normal (6%)	7,467	9,083	8,517	3,446	472	234	368	388	1,475	3,510	4,895	8,304
Dry (13%)	8,027	8,294	5,808	3,496	2,031	666	729	1,670	3,219	5,090	5,438	7,789
Critical (25%)	8,560	8,489	6,872	4,581	3,427	2,095	2,222	4,230	6,327	7,346	7,801	9,503

Alternative 4 H1 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	8,274	9,809	8,215	3,501	3,664	2,585	3,116	5,751	8,122	8,636	8,974	9,702
20%	7,496	7,538	7,319	3,114	2,262	2,367	2,780	4,334	5,391	7,955	8,304	9,433
30%	6,735	6,983	6,355	2,925	1,862	1,555	1,794	2,662	4,668	6,557	7,635	9,175
40%	6,130	6,431	5,764	2,265	1,473	1,026	1,614	2,534	4,178	6,362	7,097	8,928
50%	5,946	6,194	5,601	1,960	982	915	857	2,215	3,439	5,207	6,433	8,809
60%	5,750	5,935	5,098	1,357	661	360	603	1,154	3,237	3,571	5,840	8,223
70%	5,437	5,025	3,889	745	226	223	403	1,122	2,219	3,353	5,747	8,142
80%	4,705	4,494	973	267	205	208	332	706	1,592	3,159	5,565	7,930
90%	4,128	2,335	196	211	197	197	232	303	1,161	2,687	5,480	6,306
Long Term												
Full Simulation Period[a]	6,044	6,032	4,780	2,089	1,526	1,196	1,433	2,492	3,984	5,286	6,859	8,234
Water Year Types[b]												
Wet (31%)	4,535	3,268	1,134	612	201	202	327	871	1,722	2,580	5,667	7,483
Above Normal (25%)	6,718	7,763	5,431	328	218	212	323	538	1,657	3,087	5,596	8,532
Below Normal (6%)	4,544	5,299	7,319	3,135	693	360	622	1,154	1,592	4,727	7,495	9,945
Dry (13%)	7,004	7,070	5,237	2,843	2,039	1,150	1,273	2,212	3,812	5,514	6,386	7,788
Critical (25%)	6,514	6,868	6,564	3,162	2,866	2,590	3,051	5,061	7,339	8,258	8,569	8,731

Alternative 4 H1 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-2,120	-549	-217	-2,575	-1,206	**575**	**846**	**1,360**	**1,316**	**837**	**1,026**	**148**
20%	-2,343	-2,404	-815	-1,490	-1,423	**948**	**1,032**	**660**	**211**	**1,564**	**912**	**139**
30%	-2,899	-2,548	-1,730	-1,030	**187**	**401**	**719**	-209	**642**	**645**	**1,179**	**533**
40%	-3,285	-2,878	-1,779	-776	-145	**312**	**722**	**992**	**1,112**	**1,396**	**1,363**	**624**
50%	-3,078	-3,058	**115**	-341	**407**	**488**	**413**	**972**	**425**	**349**	**1,346**	**947**
60%	-2,226	-3,148	**369**	-192	**357**	**126**	**290**	**450**	**1,210**	**61**	**952**	**738**
70%	-1,797	-1,289	-189	**78**	**17**	**21**	**130**	**747**	**829**	**715**	**1,005**	**925**
80%	-2,252	**228**	**366**	**0**	**8**	**10**	**90**	**360**	**670**	**1,018**	**923**	**1,338**
90%	**2,206**	**666**	**2**	**1**	**4**	**6**	**28**	**85**	**666**	**775**	**1,051**	**2,366**
Long Term												
Full Simulation Period[a]	-1,622	-1,372	-424	-637	-156	**288**	**446**	**601**	**770**	**783**	**1,279**	**954**
Water Year Types[b]												
Wet (31%)	-430	-707	-86	-5	**9**	**11**	**92**	**517**	**763**	**783**	**2,130**	**3,454**
Above Normal (25%)	-3,493	-1,164	-705	-76	**8**	**11**	**92**	**231**	**860**	**961**	**854**	**1,835**
Below Normal (6%)	-2,923	-3,785	-1,198	-310	**221**	**126**	**255**	**766**	**117**	**1,217**	**2,600**	**1,642**
Dry (13%)	-1,023	-1,224	-571	-653	**8**	**484**	**544**	**541**	**593**	**424**	**948**	-1
Critical (25%)	-2,046	-1,621	-308	-1,419	-561	**495**	**829**	**831**	**1,012**	**913**	**767**	-773

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-35-6. Sacramento River at Collinsville, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	10,394	10,358	8,432	6,076	4,870	2,011	2,270	4,392	6,806	7,799	7,948	9,554
20%	9,839	9,941	8,134	4,604	3,685	1,419	1,748	3,674	5,180	6,392	7,393	9,293
30%	9,634	9,531	8,085	3,955	1,676	1,154	1,076	2,872	4,026	5,912	6,456	8,642
40%	9,415	9,308	7,543	3,041	1,617	713	892	1,542	3,067	4,966	5,734	8,304
50%	9,024	9,252	5,486	2,301	575	427	444	1,243	3,014	4,859	5,087	7,861
60%	7,976	9,083	4,728	1,548	303	234	313	704	2,027	3,510	4,888	7,485
70%	7,234	6,314	4,077	667	209	202	273	375	1,390	2,638	4,742	7,217
80%	6,957	4,267	607	267	197	199	242	346	922	2,141	4,642	6,593
90%	1,923	1,669	193	210	192	191	204	218	495	1,911	4,429	3,940
Long Term												
Full Simulation Period[a]	7,666	7,404	5,204	2,726	1,682	909	987	1,891	3,213	4,503	5,580	7,280
Water Year Types[b]												
Wet (31%)	4,965	3,975	1,220	617	193	191	235	354	959	1,797	3,537	4,029
Above Normal (25%)	10,211	8,928	6,136	404	209	201	231	307	797	2,126	4,742	6,697
Below Normal (6%)	7,467	9,083	8,517	3,446	472	234	368	388	1,475	3,510	4,895	8,304
Dry (13%)	8,027	8,294	5,808	3,496	2,031	666	729	1,670	3,219	5,090	5,438	7,789
Critical (25%)	8,560	8,489	6,872	4,581	3,427	2,095	2,222	4,230	6,327	7,346	7,801	9,503

Alternative 4 H2 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	8,195	9,677	8,273	4,314	3,676	2,531	2,895	5,680	8,034	8,342	8,860	9,814
20%	7,867	8,367	7,623	3,823	2,436	2,016	2,708	4,116	5,569	8,117	8,598	9,573
30%	6,661	7,442	7,117	3,198	1,942	1,498	1,726	2,648	4,656	6,554	7,571	9,016
40%	6,514	6,596	6,913	2,711	1,518	1,062	1,614	2,579	4,183	6,275	7,118	8,864
50%	6,359	6,028	5,671	2,259	1,070	890	843	1,854	3,658	5,544	6,632	8,494
60%	5,442	5,408	4,890	1,180	610	341	436	1,046	2,336	4,075	6,090	8,140
70%	5,112	4,791	3,811	714	228	225	299	783	1,891	3,414	5,820	8,016
80%	4,470	3,874	862	256	205	207	221	372	1,576	3,387	5,663	7,877
90%	3,694	2,155	193	211	198	197	194	259	1,173	2,991	5,538	7,445
Long Term												
Full Simulation Period[a]	5,979	6,006	4,975	2,154	1,515	1,149	1,353	2,346	3,913	5,426	6,937	8,311
Water Year Types[b]												
Wet (31%)	4,645	3,181	1,151	642	202	202	229	511	1,407	2,615	5,732	7,066
Above Normal (25%)	6,625	7,644	5,174	311	220	215	238	327	1,476	3,410	5,958	8,503
Below Normal (6%)	8,058	8,367	7,200	2,711	610	341	599	989	1,668	4,882	7,560	9,947
Dry (13%)	6,570	6,871	5,578	3,267	2,179	1,111	1,224	2,243	3,923	5,847	6,519	8,764
Critical (25%)	5,898	6,446	7,027	3,100	2,734	2,471	2,954	4,978	7,335	8,251	8,502	8,541

Alternative 4 H2 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-2,198	-680	-160	-1,762	-1,193	**521**	**625**	**1,288**	**1,228**	**544**	**912**	**260**
20%	-1,972	-1,574	-510	-781	-1,249	**597**	**960**	**442**	**388**	**1,726**	**1,205**	**279**
30%	-2,973	-2,089	-967	-757	**266**	**344**	**651**	-224	**631**	**643**	**1,115**	**374**
40%	-2,901	-2,712	-630	-330	-100	**348**	**721**	**1,037**	**1,116**	**1,309**	**1,384**	**560**
50%	-2,664	-3,224	**185**	-42	**494**	**462**	**399**	**611**	**644**	**686**	**1,545**	**633**
60%	-2,534	-3,675	**162**	-368	**307**	**107**	**123**	**343**	**309**	**565**	**1,202**	**655**
70%	-2,122	-1,522	-266	**48**	**19**	**24**	**26**	**408**	**502**	**776**	**1,078**	**799**
80%	-2,487	-393	**256**	-10	**7**	**9**	-21	**27**	**654**	**1,246**	**1,021**	**1,284**
90%	**1,771**	**486**	0	**1**	**6**	**7**	-10	**40**	**678**	**1,080**	**1,109**	**3,505**
Long Term												
Full Simulation Period[a]	-1,687	-1,398	-229	-572	-167	**240**	**366**	**456**	**700**	**923**	**1,357**	**1,030**
Water Year Types[b]												
Wet (31%)	-320	-794	-69	**25**	**10**	**11**	-6	**157**	**448**	**818**	**2,195**	**3,037**
Above Normal (25%)	-3,586	-1,284	-962	-93	**10**	**13**	**7**	**19**	**679**	**1,285**	**1,216**	**1,806**
Below Normal (6%)	**591**	-716	-1,316	-734	**138**	**107**	**231**	**601**	**193**	**1,372**	**2,665**	**1,643**
Dry (13%)	-1,457	-1,423	-230	-229	**148**	**445**	**496**	**572**	**703**	**757**	**1,081**	**975**
Critical (25%)	-2,661	-2,044	**155**	-1,481	-692	**377**	**732**	**748**	**1,008**	**905**	**700**	-963

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-35-7. Sacramento River at Collinsville, Monthly EC

Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	10,394	10,358	8,432	6,076	4,870	2,011	2,270	4,392	6,806	7,799	7,948	9,554
20%	9,839	9,941	8,134	4,604	3,685	1,419	1,748	3,674	5,180	6,392	7,393	9,293
30%	9,634	9,531	8,085	3,955	1,676	1,154	1,076	2,872	4,026	5,912	6,456	8,642
40%	9,415	9,308	7,543	3,041	1,617	713	892	1,542	3,067	4,966	5,734	8,304
50%	9,024	9,252	5,486	2,301	575	427	444	1,243	3,014	4,859	5,087	7,861
60%	7,976	9,083	4,728	1,548	303	234	313	704	2,027	3,510	4,888	7,485
70%	7,234	6,314	4,077	667	209	202	273	375	1,390	2,638	4,742	7,217
80%	6,957	4,267	607	267	197	199	242	346	922	2,141	4,642	6,593
90%	1,923	1,669	193	210	192	191	204	218	495	1,911	4,429	3,940
Long Term												
Full Simulation Period[a]	7,666	7,404	5,204	2,726	1,682	909	987	1,891	3,213	4,503	5,580	7,280
Water Year Types[b]												
Wet (31%)	4,965	3,975	1,220	617	193	191	235	354	959	1,797	3,537	4,029
Above Normal (25%)	10,211	8,928	6,136	404	209	201	231	307	797	2,126	4,742	6,697
Below Normal (6%)	7,467	9,083	8,517	3,446	472	234	368	388	1,475	3,510	4,895	8,304
Dry (13%)	8,027	8,294	5,808	3,496	2,031	666	729	1,670	3,219	5,090	5,438	7,789
Critical (25%)	8,560	8,489	6,872	4,581	3,427	2,095	2,222	4,230	6,327	7,346	7,801	9,503

Alternative 4 H3 (LLT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	8,363	9,554	6,854	3,717	4,091	2,650	3,088	5,823	8,144	8,682	8,913	9,593
20%	7,904	8,123	5,371	3,091	2,693	2,389	2,763	4,321	5,638	8,115	8,517	9,256
30%	6,616	6,863	5,273	2,790	1,908	1,583	1,896	2,573	4,675	6,806	7,825	8,888
40%	5,709	6,355	4,813	2,726	1,464	1,081	1,569	2,513	3,824	6,284	7,409	8,460
50%	4,657	4,220	4,286	1,891	1,009	889	882	2,176	3,447	5,355	6,413	7,764
60%	3,054	3,083	3,866	1,433	625	378	603	1,154	3,234	3,502	5,874	6,466
70%	1,977	2,541	3,376	714	226	223	401	1,133	2,230	3,294	5,700	3,282
80%	1,372	1,784	1,105	266	205	208	332	687	1,770	3,178	5,541	2,296
90%	1,322	921	196	211	197	198	232	303	1,155	2,680	5,472	1,842
Long Term												
Full Simulation Period[a]	4,619	4,940	4,050	1,992	1,552	1,227	1,445	2,482	3,993	5,324	6,927	6,310
Water Year Types[b]												
Wet (31%)	3,804	3,253	1,143	617	201	202	327	873	1,736	2,526	5,630	1,940
Above Normal (25%)	6,340	7,435	5,083	316	217	212	321	528	1,634	3,096	5,620	3,282
Below Normal (6%)	3,054	3,083	5,193	2,780	626	378	633	1,154	1,770	4,918	7,577	9,961
Dry (13%)	3,285	4,233	3,623	2,776	2,053	1,150	1,296	2,151	3,730	5,547	6,550	8,183
Critical (25%)	5,962	6,230	6,077	2,979	2,950	2,685	3,070	5,082	7,399	8,358	8,659	8,788

Alternative 4 H3 (LLT) minus Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-2,030	-804	-1,579	-2,359	-778	**640**	**818**	**1,431**	**1,338**	**883**	**966**	**39**
20%	-1,935	-1,819	-2,763	-1,513	-992	**970**	**1,014**	**648**	**457**	**1,724**	**1,125**	-37
30%	-3,018	-2,668	-2,812	-1,165	**232**	**429**	**820**	-299	**650**	**894**	**1,369**	**246**
40%	-3,706	-2,953	-2,730	-315	-154	**368**	**677**	**971**	**758**	**1,318**	**1,675**	**156**
50%	-4,367	-5,032	-1,200	-409	**433**	**461**	**438**	**933**	**433**	**496**	**1,326**	-97
60%	-4,922	-6,000	-863	-115	**322**	**144**	**290**	**451**	**1,207**	-8	**986**	-1,018
70%	-5,257	-3,773	-701	**47**	**17**	**21**	**128**	**758**	**840**	**656**	**958**	-3,935
80%	-5,585	-2,482	**498**	-1	**7**	**10**	**90**	**341**	**848**	**1,038**	**899**	-4,296
90%	-600	-748	**2**	**1**	**5**	**7**	**28**	**85**	**660**	**769**	**1,043**	-2,098
Long Term												
Full Simulation Period[a]	-3,048	-2,464	-1,153	-734	-131	**318**	**458**	**592**	**780**	**822**	**1,347**	-970
Water Year Types[b]												
Wet (31%)	-1,161	-722	-77	0	**9**	**11**	**92**	**519**	**777**	**728**	**2,093**	-2,089
Above Normal (25%)	-3,871	-1,493	-1,053	-88	**8**	**11**	**90**	**221**	**837**	**970**	**878**	-3,414
Below Normal (6%)	-4,414	-6,000	-3,323	-666	**154**	**144**	**266**	**766**	**294**	**1,408**	**2,682**	**1,657**
Dry (13%)	-4,743	-4,062	-2,186	-720	**22**	**483**	**567**	**481**	**511**	**457**	**1,112**	**394**
Critical (25%)	-2,598	-2,260	-795	-1,603	-477	**590**	**847**	**852**	**1,072**	**1,012**	**858**	-715

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-35-8. Sacramento River at Collinsville, Monthly EC

Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	10,394	10,358	8,432	6,076	4,870	2,011	2,270	4,392	6,806	7,799	7,948	9,554
20%	9,839	9,941	8,134	4,604	3,685	1,419	1,748	3,674	5,180	6,392	7,393	9,293
30%	9,634	9,531	8,085	3,955	1,676	1,154	1,076	2,872	4,026	5,912	6,456	8,642
40%	9,415	9,308	7,543	3,041	1,617	713	892	1,542	3,067	4,966	5,734	8,304
50%	9,024	9,252	5,486	2,301	575	427	444	1,243	3,014	4,859	5,087	7,861
60%	7,976	9,083	4,728	1,548	303	234	313	704	2,027	3,510	4,888	7,485
70%	7,234	6,314	4,077	667	209	202	273	375	1,390	2,638	4,742	7,217
80%	6,957	4,267	607	267	197	199	242	346	922	2,141	4,642	6,593
90%	1,923	1,669	193	210	192	191	204	218	495	1,911	4,429	3,940
Long Term												
Full Simulation Period[a]	7,666	7,404	5,204	2,726	1,682	909	987	1,891	3,213	4,503	5,580	7,280
Water Year Types[b]												
Wet (31%)	4,965	3,975	1,220	617	193	191	235	354	959	1,797	3,537	4,029
Above Normal (25%)	10,211	8,928	6,136	404	209	201	231	307	797	2,126	4,742	6,697
Below Normal (6%)	7,467	9,083	8,517	3,446	472	234	368	388	1,475	3,510	4,895	8,304
Dry (13%)	8,027	8,294	5,808	3,496	2,031	666	729	1,670	3,219	5,090	5,438	7,789
Critical (25%)	8,560	8,489	6,872	4,581	3,427	2,095	2,222	4,230	6,327	7,346	7,801	9,503

Alternative 4 H4 (LLT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	8,480	9,019	8,162	4,901	4,372	2,632	2,983	5,643	8,015	8,341	8,736	9,587
20%	7,159	7,785	6,312	3,805	3,476	2,291	2,686	4,118	5,570	8,049	8,064	8,630
30%	5,913	6,699	5,337	3,357	1,963	1,555	1,707	2,644	4,676	6,638	7,643	8,451
40%	5,005	5,255	4,829	2,766	1,534	1,041	1,568	2,585	4,170	6,587	7,145	8,137
50%	4,269	3,591	4,256	2,329	1,004	890	871	1,859	3,711	5,533	6,733	7,965
60%	2,971	3,098	3,737	1,444	611	377	436	1,106	2,382	4,040	6,110	7,872
70%	1,970	2,580	3,358	732	226	224	297	783	1,851	3,408	5,856	3,337
80%	1,362	1,764	1,103	256	205	208	221	372	1,445	3,302	5,579	2,284
90%	1,307	942	192	213	200	197	194	260	1,168	2,986	5,542	1,845
Long Term												
Full Simulation Period[a]	4,432	4,691	4,236	2,411	1,694	1,198	1,369	2,348	3,910	5,412	6,911	6,318
Water Year Types[b]												
Wet (31%)	3,376	2,923	1,138	645	203	202	228	526	1,417	2,590	5,729	1,936
Above Normal (25%)	6,478	7,442	5,186	317	218	213	238	328	1,478	3,408	5,974	3,337
Below Normal (6%)	2,971	3,098	5,132	2,701	611	377	614	990	1,445	4,575	7,337	10,026
Dry (13%)	3,251	4,207	3,837	2,888	2,115	1,105	1,224	2,248	3,948	5,976	6,626	8,837
Critical (25%)	5,697	5,712	6,474	4,220	3,357	2,626	3,003	4,965	7,339	8,188	8,376	8,260

Alternative 4 H4 (LLT) minus Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,914	-1,339	-271	-1,175	-498	**622**	**713**	**1,252**	**1,209**	**542**	**788**	**33**
20%	-2,680	-2,157	-1,821	-799	-209	**872**	**937**	**444**	**390**	**1,658**	**671**	-663
30%	-3,721	-2,831	-2,748	-598	**287**	**401**	**631**	-228	**650**	**726**	**1,187**	-191
40%	-4,410	-4,053	-2,715	-275	-84	**328**	**675**	**1,044**	**1,103**	**1,621**	**1,412**	-167
50%	-4,755	-5,661	-1,230	**28**	**429**	**462**	**427**	**616**	**697**	**675**	**1,646**	**103**
60%	-5,005	-5,985	-992	-105	**308**	**143**	**124**	**402**	**355**	**530**	**1,223**	**388**
70%	-5,263	-3,734	-719	**65**	**17**	**22**	**24**	**408**	**461**	**770**	**1,114**	-3,880
80%	-5,595	-2,503	**496**	-11	**8**	**9**	-21	**27**	**523**	**1,161**	**937**	-4,309
90%	-615	-727	-1	**3**	**8**	**7**	-10	**42**	**673**	**1,075**	**1,113**	-2,095
Long Term												
Full Simulation Period[a]	-3,234	-2,713	-968	-315	**11**	**289**	**382**	**457**	**696**	**909**	**1,331**	-962
Water Year Types[b]												
Wet (31%)	-1,589	-1,052	-82	**28**	**11**	**11**	-7	**172**	**458**	**792**	**2,192**	-2,093
Above Normal (25%)	-3,733	-1,486	-950	-87	**9**	**12**	**7**	**21**	**682**	**1,282**	**1,232**	-3,360
Below Normal (6%)	-4,497	-5,985	-3,385	-744	**139**	**143**	**247**	**602**	-30	**1,065**	**2,442**	**1,723**
Dry (13%)	-4,776	-4,087	-1,971	-608	**84**	**439**	**495**	**577**	**729**	**886**	**1,188**	**1,048**
Critical (25%)	-2,863	-2,778	-397	-361	-70	**531**	**781**	**736**	**1,013**	**842**	**574**	-1,244

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-35-9. Sacramento River at Collinsville, Monthly EC

Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	10,394	10,358	8,432	6,076	4,870	2,011	2,270	4,392	6,806	7,799	7,948	9,554
20%	9,839	9,941	8,134	4,604	3,685	1,419	1,748	3,674	5,180	6,392	7,393	9,293
30%	9,634	9,531	8,085	3,955	1,676	1,154	1,076	2,872	4,026	5,912	6,456	8,642
40%	9,415	9,308	7,543	3,041	1,617	713	892	1,542	3,067	4,966	5,734	8,304
50%	9,024	9,252	5,486	2,301	575	427	444	1,243	3,014	4,859	5,087	7,861
60%	7,976	9,083	4,728	1,548	303	234	313	704	2,027	3,510	4,888	7,485
70%	7,234	6,314	4,077	667	209	202	273	375	1,390	2,638	4,742	7,217
80%	6,957	4,267	607	267	197	199	242	346	922	2,141	4,642	6,593
90%	1,923	1,669	193	210	192	191	204	218	495	1,911	4,429	3,940
Long Term												
Full Simulation Period[a]	7,666	7,404	5,204	2,726	1,682	909	987	1,891	3,213	4,503	5,580	7,280
Water Year Types[b]												
Wet (31%)	4,965	3,975	1,220	617	193	191	235	354	959	1,797	3,537	4,029
Above Normal (25%)	10,211	8,928	6,136	404	209	201	231	307	797	2,126	4,742	6,697
Below Normal (6%)	7,467	9,083	8,517	3,446	472	234	368	388	1,475	3,510	4,895	8,304
Dry (13%)	8,027	8,294	5,808	3,496	2,031	666	729	1,670	3,219	5,090	5,438	7,789
Critical (25%)	8,560	8,489	6,872	4,581	3,427	2,095	2,222	4,230	6,327	7,346	7,801	9,503

Alternative 5 (LLT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,205	8,910	8,219	4,884	4,222	3,007	2,910	5,517	7,913	8,451	8,999	9,572
20%	8,863	7,292	7,743	4,693	2,742	2,256	2,411	4,369	5,659	7,592	8,383	9,359
30%	7,735	6,889	5,354	3,616	2,462	1,767	1,809	2,684	4,831	6,549	7,620	8,921
40%	5,840	6,319	5,128	2,941	1,750	972	1,501	2,663	4,232	5,838	6,534	8,554
50%	5,407	5,663	4,668	2,830	1,217	911	881	2,322	3,671	5,120	6,074	8,088
60%	3,497	3,256	4,290	2,800	651	374	588	1,186	3,216	3,853	5,920	7,452
70%	2,317	2,613	3,703	722	210	205	405	1,160	2,525	3,555	5,741	3,244
80%	1,371	1,850	1,962	262	202	200	340	730	1,792	3,014	5,467	2,288
90%	1,330	950	200	206	193	195	210	315	1,239	2,829	5,325	1,748
Long Term												
Full Simulation Period[a]	5,141	4,989	4,548	2,560	1,709	1,261	1,380	2,498	4,088	5,228	6,772	6,400
Water Year Types[b]												
Wet (31%)	5,012	3,721	1,427	851	196	197	324	896	1,774	2,672	5,632	1,881
Above Normal (25%)	8,204	8,869	5,354	302	208	199	293	566	1,922	3,213	5,540	3,244
Below Normal (6%)	3,497	3,256	4,855	2,941	771	374	613	1,137	1,792	4,676	6,883	9,605
Dry (13%)	3,770	4,071	4,792	4,157	2,420	1,245	1,306	2,302	3,977	5,590	6,375	8,588
Critical (25%)	5,445	5,534	6,466	3,477	3,138	2,728	2,870	4,981	7,353	7,901	8,471	8,887

Alternative 5 (LLT) minus Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,188	-1,447	-213	-1,193	-648	**996**	**640**	**1,126**	**1,108**	**652**	**1,051**	**18**
20%	-976	-2,649	-391	**89**	-943	**837**	**663**	**695**	**478**	**1,200**	**990**	**66**
30%	-1,899	-2,641	-2,731	-339	**787**	**613**	**733**	-188	**806**	**637**	**1,163**	**280**
40%	-3,575	-2,989	-2,416	-100	**133**	**259**	**608**	**1,121**	**1,165**	**872**	**801**	**251**
50%	-3,617	-3,589	-818	**530**	**642**	**484**	**437**	**1,079**	**657**	**261**	**987**	**226**
60%	-4,479	-5,827	-439	**1,251**	**347**	**140**	**275**	**483**	**1,189**	**343**	**1,032**	-33
70%	-4,917	-3,700	-374	**55**	**1**	**4**	**132**	**785**	**1,135**	**917**	**999**	-3,973
80%	-5,586	-2,417	**1,355**	-4	**5**	**2**	**98**	**385**	**870**	**873**	**826**	-4,305
90%	-592	-719	**7**	-4	**1**	**5**	**6**	**97**	**744**	**918**	**896**	-2,192
Long Term												
Full Simulation Period[a]	-2,525	-2,415	-656	-165	**26**	**353**	**393**	**608**	**874**	**726**	**1,191**	-880
Water Year Types[b]												
Wet (31%)	**47**	-254	**207**	**234**	**3**	**5**	**90**	**542**	**815**	**875**	**2,095**	-2,148
Above Normal (25%)	-2,007	-59	-782	-102	-1	-2	**62**	**259**	**1,126**	**1,087**	**798**	-3,453
Below Normal (6%)	-3,970	-5,827	-3,661	-505	**299**	**140**	**245**	**749**	**317**	**1,166**	**1,988**	**1,301**
Dry (13%)	-4,257	-4,223	-1,016	**662**	**390**	**579**	**578**	**632**	**758**	**500**	**936**	**799**
Critical (25%)	-3,115	-2,956	-406	-1,104	-288	**633**	**648**	**752**	**1,027**	**555**	**670**	-616

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-35-10. Sacramento River at Collinsville, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	10,394	10,358	8,432	6,076	4,870	2,011	2,270	4,392	6,806	7,799	7,948	9,554
20%	9,839	9,941	8,134	4,604	3,685	1,419	1,748	3,674	5,180	6,392	7,393	9,293
30%	9,634	9,531	8,085	3,955	1,676	1,154	1,076	2,872	4,026	5,912	6,456	8,642
40%	9,415	9,308	7,543	3,041	1,617	713	892	1,542	3,067	4,966	5,734	8,304
50%	9,024	9,252	5,486	2,301	575	427	444	1,243	3,014	4,859	5,087	7,861
60%	7,976	9,083	4,728	1,548	303	234	313	704	2,027	3,510	4,888	7,485
70%	7,234	6,314	4,077	667	209	202	273	375	1,390	2,638	4,742	7,217
80%	6,957	4,267	607	267	197	199	242	346	922	2,141	4,642	6,593
90%	1,923	1,669	193	210	192	191	204	218	495	1,911	4,429	3,940
Long Term												
Full Simulation Period[a]	7,666	7,404	5,204	2,726	1,682	909	987	1,891	3,213	4,503	5,580	7,280
Water Year Types[b]												
Wet (31%)	4,965	3,975	1,220	617	193	191	235	354	959	1,797	3,537	4,029
Above Normal (25%)	10,211	8,928	6,136	404	209	201	231	307	797	2,126	4,742	6,697
Below Normal (6%)	7,467	9,083	8,517	3,446	472	234	368	388	1,475	3,510	4,895	8,304
Dry (13%)	8,027	8,294	5,808	3,496	2,031	666	729	1,670	3,219	5,090	5,438	7,789
Critical (25%)	8,560	8,489	6,872	4,581	3,427	2,095	2,222	4,230	6,327	7,346	7,801	9,503

Alternative 6A,6B,6C (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	6,469	6,208	3,980	2,530	2,785	1,984	2,653	4,781	6,814	8,924	8,311	7,179
20%	5,199	4,548	3,625	1,636	1,594	1,187	1,948	3,995	5,482	7,907	7,652	6,759
30%	4,324	3,831	2,898	1,569	929	964	1,351	2,596	4,593	7,335	7,160	5,989
40%	4,040	3,525	2,314	1,004	735	742	1,096	2,552	4,180	6,631	6,575	5,510
50%	3,796	3,064	1,742	846	456	519	726	2,044	3,663	6,128	5,898	5,100
60%	2,637	2,547	1,536	604	386	318	526	1,123	2,728	4,497	5,028	4,626
70%	1,947	1,792	1,267	411	240	228	371	885	2,023	3,369	4,077	3,105
80%	1,248	1,165	452	225	213	209	310	571	1,462	2,931	3,781	1,803
90%	1,211	811	193	214	203	198	234	294	1,069	2,640	3,647	1,432
Long Term												
Full Simulation Period[a]	3,577	3,184	2,206	1,307	1,071	887	1,208	2,246	3,706	5,547	5,738	4,660
Water Year Types[b]												
Wet (31%)	2,498	1,599	451	311	206	202	302	718	1,555	2,299	3,284	1,498
Above Normal (25%)	5,890	5,415	2,424	253	233	219	304	465	1,451	3,160	3,877	3,105
Below Normal (6%)	2,637	2,547	2,483	1,004	394	318	537	909	1,462	4,497	5,028	4,626
Dry (13%)	2,795	2,663	2,011	1,288	1,098	653	950	2,201	3,978	6,440	6,529	5,545
Critical (25%)	4,328	4,105	3,624	2,602	2,213	2,002	2,636	4,483	6,560	8,597	7,956	7,110

Alternative 6A,6B,6C (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-3,924	-4,150	-4,453	-3,546	-2,085	-27	**383**	**389**	**8**	**1,125**	**364**	-2,375
20%	-4,640	-5,393	-4,509	-2,967	-2,091	-232	**199**	**321**	**302**	**1,516**	**260**	-2,534
30%	-5,310	-5,700	-5,186	-2,386	-747	-190	**275**	-276	**568**	**1,424**	**704**	-2,652
40%	-5,375	-5,784	-5,229	-2,037	-883	**28**	**204**	**1,010**	**1,114**	**1,665**	**841**	-2,794
50%	-5,228	-6,189	-3,744	-1,455	-119	**91**	**282**	**801**	**649**	**1,269**	**811**	-2,761
60%	-5,339	-6,536	-3,193	-944	**83**	**84**	**214**	**419**	**701**	**987**	**140**	-2,859
70%	-5,286	-4,522	-2,811	-256	**30**	**26**	**98**	**510**	**633**	**731**	-666	-4,112
80%	-5,709	-3,102	-155	-41	**15**	**11**	**68**	**226**	**541**	**790**	-861	-4,790
90%	-712	-858	-1	**4**	**11**	**8**	**30**	**76**	**574**	**729**	-782	-2,508
Long Term												
Full Simulation Period[a]	-4,089	-4,220	-2,997	-1,418	-611	-22	**221**	**355**	**492**	**1,045**	**158**	-2,621
Water Year Types[b]												
Wet (31%)	-2,467	-2,376	-768	-306	**13**	**11**	**67**	**364**	**596**	**502**	-253	-2,531
Above Normal (25%)	-4,321	-3,513	-3,712	-152	**23**	**18**	**73**	**157**	**655**	**1,035**	-865	-3,592
Below Normal (6%)	-4,830	-6,536	-6,033	-2,442	-78	**84**	**169**	**520**	-13	**987**	**133**	-3,678
Dry (13%)	-5,232	-5,631	-3,797	-2,208	-933	-14	**221**	**531**	**758**	**1,349**	**1,090**	-2,244
Critical (25%)	-4,232	-4,384	-3,247	-1,979	-1,214	-93	**414**	**253**	**233**	**1,251**	**155**	-2,393

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-35-11. Sacramento River at Collinsville, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	10,394	10,358	8,432	6,076	4,870	2,011	2,270	4,392	6,806	7,799	7,948	9,554
20%	9,839	9,941	8,134	4,604	3,685	1,419	1,748	3,674	5,180	6,392	7,393	9,293
30%	9,634	9,531	8,085	3,955	1,676	1,154	1,076	2,872	4,026	5,912	6,456	8,642
40%	9,415	9,308	7,543	3,041	1,617	713	892	1,542	3,067	4,966	5,734	8,304
50%	9,024	9,252	5,486	2,301	575	427	444	1,243	3,014	4,859	5,087	7,861
60%	7,976	9,083	4,728	1,548	303	234	313	704	2,027	3,510	4,888	7,485
70%	7,234	6,314	4,077	667	209	202	273	375	1,390	2,638	4,742	7,217
80%	6,957	4,267	607	267	197	199	242	346	922	2,141	4,642	6,593
90%	1,923	1,669	193	210	192	191	204	218	495	1,911	4,429	3,940
Long Term												
Full Simulation Period[a]	7,666	7,404	5,204	2,726	1,682	909	987	1,891	3,213	4,503	5,580	7,280
Water Year Types[b]												
Wet (31%)	4,965	3,975	1,220	617	193	191	235	354	959	1,797	3,537	4,029
Above Normal (25%)	10,211	8,928	6,136	404	209	201	231	307	797	2,126	4,742	6,697
Below Normal (6%)	7,467	9,083	8,517	3,446	472	234	368	388	1,475	3,510	4,895	8,304
Dry (13%)	8,027	8,294	5,808	3,496	2,031	666	729	1,670	3,219	5,090	5,438	7,789
Critical (25%)	8,560	8,489	6,872	4,581	3,427	2,095	2,222	4,230	6,327	7,346	7,801	9,503

Alternative 7 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	8,019	6,075	4,233	2,512	2,734	1,838	2,496	4,128	4,917	7,748	8,257	9,287
20%	7,014	4,570	3,683	1,596	1,557	1,163	1,891	3,819	4,388	6,974	7,774	9,023
30%	6,752	4,484	2,578	1,535	924	929	1,288	2,625	3,975	6,511	7,460	8,870
40%	6,571	4,036	2,197	1,060	700	730	1,086	2,505	3,853	6,233	6,315	8,711
50%	5,668	3,274	1,708	902	479	479	680	2,016	3,153	5,364	6,066	8,243
60%	2,760	2,601	1,619	656	349	316	503	1,110	2,438	4,125	5,797	8,132
70%	1,776	1,695	1,288	403	230	222	370	877	1,650	3,276	5,730	3,319
80%	1,288	1,241	475	217	203	207	308	575	1,277	3,062	5,672	2,351
90%	1,148	834	190	208	198	197	230	282	1,012	2,821	5,516	1,846
Long Term												
Full Simulation Period[a]	4,694	3,339	2,219	1,299	1,049	851	1,166	2,057	3,006	5,084	6,587	6,427
Water Year Types[b]												
Wet (31%)	3,528	1,673	470	321	201	202	302	719	1,344	2,615	5,791	1,961
Above Normal (25%)	7,952	5,229	2,137	245	221	212	302	456	1,177	2,977	5,704	3,319
Below Normal (6%)	2,760	2,743	2,501	1,060	432	316	503	874	1,515	4,730	6,315	8,213
Dry (13%)	2,977	2,740	2,001	1,296	1,079	622	911	2,180	3,650	5,683	6,098	8,997
Critical (25%)	6,083	4,515	3,769	2,555	2,157	1,916	2,540	3,907	4,850	7,493	8,021	8,829

Alternative 7 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-2,374	-4,283	-4,200	-3,565	-2,136	-172	**226**	-264	-1,889	-51	**310**	-267
20%	-2,825	-5,372	-4,450	-3,008	-2,128	-256	**142**	**145**	-792	**583**	**381**	-270
30%	-2,882	-5,046	-5,506	-2,420	-751	-225	**213**	-247	-51	**599**	**1,004**	**228**
40%	-2,844	-5,272	-5,347	-1,981	-918	**17**	**194**	**963**	**786**	**1,267**	**582**	**407**
50%	-3,355	-5,978	-3,778	-1,399	-96	**52**	**236**	**773**	**139**	**505**	**979**	**381**
60%	-5,216	-6,482	-3,110	-892	**46**	**82**	**191**	**407**	**411**	**615**	**909**	**647**
70%	-5,458	-4,619	-2,789	-264	**21**	**21**	**97**	**502**	**260**	**638**	**988**	-3,898
80%	-5,669	-3,026	-131	-50	**6**	**8**	**66**	**229**	**355**	**921**	**1,031**	-4,242
90%	-774	-835	-3	-2	**6**	**7**	**27**	**63**	**517**	**910**	**1,087**	-2,094
Long Term												
Full Simulation Period[a]	-2,972	-4,065	-2,985	-1,426	-634	-58	**179**	**167**	-208	**581**	**1,006**	-854
Water Year Types[b]												
Wet (31%)	-1,437	-2,302	-750	-296	**9**	**10**	**67**	**365**	**385**	**818**	**2,254**	-2,069
Above Normal (25%)	-2,259	-3,699	-3,999	-159	**12**	**11**	**71**	**149**	**380**	**851**	**962**	-3,378
Below Normal (6%)	-4,707	-6,341	-6,016	-2,385	-40	**82**	**136**	**485**	**39**	**1,220**	**1,420**	-91
Dry (13%)	-5,050	-5,554	-3,807	-2,200	-952	-44	**182**	**510**	**430**	**593**	**660**	**1,208**
Critical (25%)	-2,477	-3,975	-3,103	-2,026	-1,270	-178	**318**	-323	-1,477	**147**	**219**	-674

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-35-12. Sacramento River at Collinsville, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	10,394	10,358	8,432	6,076	4,870	2,011	2,270	4,392	6,806	7,799	7,948	9,554
20%	9,839	9,941	8,134	4,604	3,685	1,419	1,748	3,674	5,180	6,392	7,393	9,293
30%	9,634	9,531	8,085	3,955	1,676	1,154	1,076	2,872	4,026	5,912	6,456	8,642
40%	9,415	9,308	7,543	3,041	1,617	713	892	1,542	3,067	4,966	5,734	8,304
50%	9,024	9,252	5,486	2,301	575	427	444	1,243	3,014	4,859	5,087	7,861
60%	7,976	9,083	4,728	1,548	303	234	313	704	2,027	3,510	4,888	7,485
70%	7,234	6,314	4,077	667	209	202	273	375	1,390	2,638	4,742	7,217
80%	6,957	4,267	607	267	197	199	242	346	922	2,141	4,642	6,593
90%	1,923	1,669	193	210	192	191	204	218	495	1,911	4,429	3,940
Long Term												
Full Simulation Period[a]	7,666	7,404	5,204	2,726	1,682	909	987	1,891	3,213	4,503	5,580	7,280
Water Year Types[b]												
Wet (31%)	4,965	3,975	1,220	617	193	191	235	354	959	1,797	3,537	4,029
Above Normal (25%)	10,211	8,928	6,136	404	209	201	231	307	797	2,126	4,742	6,697
Below Normal (6%)	7,467	9,083	8,517	3,446	472	234	368	388	1,475	3,510	4,895	8,304
Dry (13%)	8,027	8,294	5,808	3,496	2,031	666	729	1,670	3,219	5,090	5,438	7,789
Critical (25%)	8,560	8,489	6,872	4,581	3,427	2,095	2,222	4,230	6,327	7,346	7,801	9,503

Alternative 8 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	8,771	6,771	4,197	2,510	2,445	1,193	1,759	3,302	4,548	7,637	8,181	9,771
20%	8,583	5,853	4,044	1,649	1,510	909	1,513	2,604	3,799	6,684	8,087	9,332
30%	7,148	4,340	2,815	1,373	710	714	761	2,347	3,651	6,527	7,773	9,052
40%	6,583	4,022	2,263	977	563	513	570	1,632	3,433	6,505	7,381	8,860
50%	6,373	3,306	1,730	775	402	342	495	1,353	2,968	5,731	7,074	8,735
60%	2,571	2,679	1,627	513	300	290	395	756	2,207	4,939	6,990	8,607
70%	1,828	2,100	1,335	386	226	223	302	587	1,545	3,231	6,055	3,311
80%	1,295	1,210	461	218	206	207	276	474	1,210	2,944	5,785	2,145
90%	1,201	846	190	207	196	197	223	254	1,005	2,828	5,572	1,856
Long Term												
Full Simulation Period[a]	4,947	3,564	2,294	1,263	966	697	912	1,638	2,817	5,155	6,982	6,632
Water Year Types[b]												
Wet (31%)	3,890	1,836	477	285	201	202	272	547	1,250	2,548	5,697	1,906
Above Normal (25%)	7,561	5,287	2,382	244	218	211	268	385	1,147	3,009	5,797	3,311
Below Normal (6%)	2,571	2,679	2,493	977	352	290	395	484	1,424	4,939	7,109	9,332
Dry (13%)	3,434	3,162	2,099	1,190	837	441	570	1,780	3,574	6,164	7,304	9,531
Critical (25%)	6,433	4,756	3,828	2,567	2,105	1,575	2,057	3,129	4,411	7,335	8,200	8,883

Alternative 8 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,623	-3,587	-4,236	-3,567	-2,424	-818	-511	-1,090	-2,257	-162	**234**	**217**
20%	-1,256	-4,088	-4,090	-2,955	-2,176	-510	-236	-1,070	-1,381	**293**	**694**	**39**
30%	-2,486	-5,191	-5,269	-2,582	-966	-440	-315	-525	-375	**615**	**1,317**	**410**
40%	-2,832	-5,286	-5,281	-2,064	-1,054	-201	-322	**91**	**366**	**1,539**	**1,648**	**557**
50%	-2,650	-5,946	-3,756	-1,526	-173	-85	**51**	**110**	-46	**873**	**1,987**	**874**
60%	-5,405	-6,404	-3,102	-1,035	-4	**56**	**82**	**52**	**180**	**1,429**	**2,102**	**1,123**
70%	-5,405	-4,214	-2,742	-281	**17**	**21**	**28**	**212**	**155**	**594**	**1,312**	-3,906
80%	-5,662	-3,057	-146	-49	**9**	**8**	**34**	**129**	**288**	**803**	**1,143**	-4,448
90%	-722	-823	-3	-3	**4**	**6**	**19**	**36**	**510**	**917**	**1,143**	-2,084
Long Term												
Full Simulation Period[a]	-2,719	-3,840	-2,910	-1,463	-716	-211	-75	-253	-397	**652**	**1,401**	-648
Water Year Types[b]												
Wet (31%)	-1,075	-2,139	-743	-332	**8**	**11**	**37**	**193**	**291**	**751**	**2,160**	-2,124
Above Normal (25%)	-2,650	-3,641	-3,754	-160	**9**	**10**	**37**	**78**	**350**	**883**	**1,055**	-3,386
Below Normal (6%)	-4,896	-6,404	-6,023	-2,468	-120	**56**	**27**	**96**	-51	**1,429**	**2,214**	**1,028**
Dry (13%)	-4,593	-5,132	-3,709	-2,305	-1,194	-226	-158	**110**	**354**	**1,074**	**1,866**	**1,741**
Critical (25%)	-2,127	-3,734	-3,043	-2,014	-1,322	-520	-165	-1,101	-1,916	-11	**398**	-620

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-35-13. Sacramento River at Collinsville, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	10,394	10,358	8,432	6,076	4,870	2,011	2,270	4,392	6,806	7,799	7,948	9,554
20%	9,839	9,941	8,134	4,604	3,685	1,419	1,748	3,674	5,180	6,392	7,393	9,293
30%	9,634	9,531	8,085	3,955	1,676	1,154	1,076	2,872	4,026	5,912	6,456	8,642
40%	9,415	9,308	7,543	3,041	1,617	713	892	1,542	3,067	4,966	5,734	8,304
50%	9,024	9,252	5,486	2,301	575	427	444	1,243	3,014	4,859	5,087	7,861
60%	7,976	9,083	4,728	1,548	303	234	313	704	2,027	3,510	4,888	7,485
70%	7,234	6,314	4,077	667	209	202	273	375	1,390	2,638	4,742	7,217
80%	6,957	4,267	607	267	197	199	242	346	922	2,141	4,642	6,593
90%	1,923	1,669	193	210	192	191	204	218	495	1,911	4,429	3,940
Long Term												
Full Simulation Period[a]	7,666	7,404	5,204	2,726	1,682	909	987	1,891	3,213	4,503	5,580	7,280
Water Year Types[b]												
Wet (31%)	4,965	3,975	1,220	617	193	191	235	354	959	1,797	3,537	4,029
Above Normal (25%)	10,211	8,928	6,136	404	209	201	231	307	797	2,126	4,742	6,697
Below Normal (6%)	7,467	9,083	8,517	3,446	472	234	368	388	1,475	3,510	4,895	8,304
Dry (13%)	8,027	8,294	5,808	3,496	2,031	666	729	1,670	3,219	5,090	5,438	7,789
Critical (25%)	8,560	8,489	6,872	4,581	3,427	2,095	2,222	4,230	6,327	7,346	7,801	9,503

Alternative 9 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	10,781	11,396	10,299	7,267	5,365	2,771	2,756	5,151	7,191	7,891	7,443	9,426
20%	10,250	10,275	9,334	4,625	4,077	2,195	1,873	4,095	5,508	7,390	7,198	9,260
30%	9,819	9,905	7,550	3,805	1,951	1,578	1,572	1,982	3,837	6,612	6,412	8,883
40%	9,435	9,826	5,762	3,247	1,665	988	1,208	1,740	3,329	6,332	6,372	8,825
50%	8,273	7,415	4,866	2,531	982	624	931	1,676	3,124	5,449	6,039	8,397
60%	3,305	3,389	4,543	2,327	453	275	728	1,490	2,802	4,819	5,775	7,985
70%	2,137	2,619	3,849	660	214	206	434	1,335	2,023	3,864	5,496	3,399
80%	1,338	1,749	1,677	262	199	196	340	828	1,795	2,549	5,320	2,137
90%	1,280	880	192	210	196	192	211	298	1,384	2,406	5,170	1,695
Long Term												
Full Simulation Period[a]	6,327	6,429	5,429	3,145	2,009	1,195	1,317	2,175	3,548	5,282	6,169	6,468
Water Year Types[b]												
Wet (31%)	4,808	4,028	1,581	734	195	192	358	982	1,540	2,550	5,359	1,772
Above Normal (25%)	10,487	10,720	7,550	338	212	203	301	607	1,827	2,981	5,226	3,399
Below Normal (6%)	3,305	3,389	5,147	2,646	499	275	740	1,415	1,795	4,819	6,451	9,260
Dry (13%)	4,059	4,908	5,439	4,007	2,193	922	1,063	1,631	3,301	6,031	6,206	8,790
Critical (25%)	8,298	8,459	7,708	5,606	4,332	2,798	2,808	4,344	6,391	7,881	7,109	9,038

Alternative 9 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**388**	**1,038**	**1,866**	**1,190**	**496**	**760**	**486**	**759**	**385**	**92**	-504	-127
20%	**411**	**333**	**1,201**	**21**	**391**	**776**	**125**	**421**	**327**	**999**	-195	-34
30%	**185**	**374**	-534	-150	**276**	**424**	**496**	-890	-189	**700**	-44	**242**
40%	**20**	**518**	-1,781	**206**	**47**	**275**	**315**	**199**	**262**	**1,366**	**638**	**522**
50%	-751	-1,838	-620	**231**	**407**	**197**	**487**	**432**	**110**	**590**	**952**	**535**
60%	-4,671	-5,695	-186	**778**	**150**	**41**	**415**	**787**	**775**	**1,309**	**887**	**500**
70%	-5,097	-3,695	-228	-6	**4**	**4**	**161**	**960**	**634**	**1,226**	**754**	-3,818
80%	-5,619	-2,518	**1,070**	-4	**1**	-3	**98**	**483**	**873**	**408**	**678**	-4,455
90%	-643	-789	-1	**0**	**3**	**2**	**7**	**80**	**889**	**494**	**741**	-2,244
Long Term												
Full Simulation Period[a]	-1,339	-975	**226**	**419**	**326**	**287**	**330**	**285**	**334**	**779**	**589**	-812
Water Year Types[b]												
Wet (31%)	-157	**53**	**362**	**117**	**3**	**1**	**124**	**628**	**581**	**752**	**1,822**	-2,258
Above Normal (25%)	**275**	**1,792**	**1,414**	-67	**3**	**1**	**70**	**300**	**1,030**	**855**	**484**	-3,297
Below Normal (6%)	-4,162	-5,695	-3,370	-800	**27**	**41**	**373**	**1,027**	**319**	**1,309**	**1,556**	**956**
Dry (13%)	-3,968	-3,387	-369	**511**	**162**	**256**	**334**	-39	**81**	**940**	**767**	**1,001**
Critical (25%)	-262	-31	**836**	**1,024**	**905**	**703**	**586**	**114**	**64**	**535**	-692	-465

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-35-14. Sacramento River at Collinsville, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,466	10,474	9,351	5,249	5,178	2,997	2,669	4,898	7,206	7,349	8,047	9,919
20%	8,689	9,043	8,149	4,689	2,537	2,061	2,435	3,800	5,094	5,689	6,863	9,582
30%	8,482	8,831	6,659	3,627	2,154	1,528	1,635	2,426	4,021	5,603	6,436	9,224
40%	8,079	8,575	4,758	3,066	1,968	826	1,146	2,371	3,773	5,167	5,804	8,710
50%	7,701	6,421	4,566	2,892	1,149	668	702	1,948	3,137	4,434	4,835	8,565
60%	3,458	3,614	4,452	1,962	482	293	473	1,073	2,548	2,648	4,582	7,862
70%	2,294	2,798	3,854	720	205	200	319	903	2,292	2,245	4,374	3,305
80%	1,300	1,746	1,710	254	200	199	284	531	1,587	2,024	4,325	2,180
90%	1,279	866	204	205	190	193	204	267	1,173	1,498	4,171	1,579
Long Term												
Full Simulation Period[a]	5,753	5,817	4,876	2,744	1,863	1,159	1,251	2,209	3,621	4,217	5,596	6,608
Water Year Types[b]												
Wet (31%)	4,787	3,915	1,316	641	192	194	283	709	1,563	1,702	4,210	1,691
Above Normal (25%)	8,825	8,910	6,415	391	205	197	254	432	1,710	1,925	4,247	3,305
Below Normal (6%)	3,458	3,614	5,247	3,016	665	293	511	893	1,587	4,363	5,804	8,710
Dry (13%)	3,597	4,406	4,692	4,020	2,360	984	1,128	2,048	3,479	4,502	5,279	8,590
Critical (25%)	7,480	7,672	7,181	4,293	3,705	2,628	2,671	4,511	6,552	6,889	7,458	9,856

Alternative 1A,1B,1C (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	8,850	9,099	8,022	5,096	3,683	2,895	3,110	5,845	8,101	8,512	9,060	9,897
20%	8,585	8,737	7,643	4,398	3,077	2,375	2,802	4,449	5,469	7,998	8,022	9,494
30%	7,855	7,516	6,781	3,514	2,781	1,566	1,829	2,854	4,767	6,712	7,813	9,291
40%	7,395	6,903	6,472	2,983	1,854	1,161	1,522	2,736	3,697	6,471	7,367	9,022
50%	6,083	6,240	5,904	2,908	1,190	1,072	1,219	2,618	3,333	5,397	6,562	8,741
60%	5,925	5,322	5,349	2,514	615	326	836	2,388	3,293	3,563	6,040	8,560
70%	4,599	4,810	4,424	866	238	228	406	1,250	2,719	3,386	5,847	8,448
80%	3,381	4,050	2,398	360	212	209	358	1,149	2,260	3,156	5,594	7,547
90%	2,811	1,864	212	220	207	198	234	398	1,200	2,875	5,433	6,698
Long Term												
Full Simulation Period[a]	6,069	5,971	5,069	2,665	1,734	1,248	1,495	2,729	4,067	5,312	6,908	8,370
Water Year Types[b]												
Wet (31%)	4,829	3,097	1,237	901	208	202	391	1,170	1,753	2,552	5,699	7,518
Above Normal (25%)	6,429	7,431	5,910	371	229	219	331	850	2,164	3,359	5,908	8,791
Below Normal (6%)	3,091	4,450	6,886	3,263	615	326	1,049	2,388	2,260	5,074	7,624	10,054
Dry (13%)	7,877	7,922	5,891	3,401	2,356	1,251	1,312	2,328	3,676	5,561	6,365	8,256
Critical (25%)	6,066	6,429	6,777	4,286	3,283	2,679	3,077	5,117	7,353	8,150	8,566	8,638

Alternative 1A,1B,1C (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-616	-1,375	-1,329	-153	-1,495	-102	**441**	**947**	**895**	**1,163**	**1,013**	-23
20%	-104	-306	-506	-291	**541**	**314**	**367**	**650**	**374**	**2,309**	**1,159**	-88
30%	-627	-1,314	**122**	-113	**627**	**37**	**194**	**428**	**746**	**1,109**	**1,377**	**67**
40%	-684	-1,672	**1,713**	-83	-115	**335**	**376**	**364**	-77	**1,304**	**1,562**	**312**
50%	-1,617	-181	**1,338**	**17**	**41**	**404**	**517**	**670**	**196**	**963**	**1,727**	**176**
60%	**2,467**	**1,708**	**897**	**553**	**133**	**33**	**363**	**1,315**	**745**	**915**	**1,458**	**698**
70%	**2,305**	**2,012**	**570**	**146**	**33**	**28**	**87**	**346**	**427**	**1,140**	**1,474**	**5,143**
80%	**2,081**	**2,304**	**688**	**106**	**12**	**10**	**75**	**618**	**673**	**1,132**	**1,269**	**5,367**
90%	**1,532**	**997**	**7**	**15**	**18**	**5**	**30**	**131**	**27**	**1,376**	**1,262**	**5,119**
Long Term												
Full Simulation Period[a]	**316**	**154**	**193**	-79	-129	**90**	**244**	**520**	**446**	**1,095**	**1,311**	**1,762**
Water Year Types[b]												
Wet (31%)	**42**	-818	-78	**260**	**17**	**9**	**108**	**460**	**190**	**850**	**1,489**	**5,827**
Above Normal (25%)	-2,396	-1,479	-505	-20	**24**	**22**	**78**	**418**	**453**	**1,434**	**1,661**	**5,486**
Below Normal (6%)	-367	**836**	**1,639**	**248**	-50	**33**	**538**	**1,495**	**673**	**711**	**1,820**	**1,344**
Dry (13%)	**4,279**	**3,517**	**1,198**	-619	-4	**267**	**185**	**280**	**197**	**1,059**	**1,086**	-334
Critical (25%)	-1,413	-1,243	-404	-7	-422	**51**	**406**	**605**	**801**	**1,261**	**1,107**	-1,218

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-35-15. Sacramento River at Collinsville, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,466	10,474	9,351	5,249	5,178	2,997	2,669	4,898	7,206	7,349	8,047	9,919
20%	8,689	9,043	8,149	4,689	2,537	2,061	2,435	3,800	5,094	5,689	6,863	9,582
30%	8,482	8,831	6,659	3,627	2,154	1,528	1,635	2,426	4,021	5,603	6,436	9,224
40%	8,079	8,575	4,758	3,066	1,968	826	1,146	2,371	3,773	5,167	5,804	8,710
50%	7,701	6,421	4,566	2,892	1,149	668	702	1,948	3,137	4,434	4,835	8,565
60%	3,458	3,614	4,452	1,962	482	293	473	1,073	2,548	2,648	4,582	7,862
70%	2,294	2,798	3,854	720	205	200	319	903	2,292	2,245	4,374	3,305
80%	1,300	1,746	1,710	254	200	199	284	531	1,587	2,024	4,325	2,180
90%	1,279	866	204	205	190	193	204	267	1,173	1,498	4,171	1,579
Long Term												
Full Simulation Period[a]	5,753	5,817	4,876	2,744	1,863	1,159	1,251	2,209	3,621	4,217	5,596	6,608
Water Year Types[b]												
Wet (31%)	4,787	3,915	1,316	641	192	194	283	709	1,563	1,702	4,210	1,691
Above Normal (25%)	8,825	8,910	6,415	391	205	197	254	432	1,710	1,925	4,247	3,305
Below Normal (6%)	3,458	3,614	5,247	3,016	665	293	511	893	1,587	4,363	5,804	8,710
Dry (13%)	3,597	4,406	4,692	4,020	2,360	984	1,128	2,048	3,479	4,502	5,279	8,590
Critical (25%)	7,480	7,672	7,181	4,293	3,705	2,628	2,671	4,511	6,552	6,889	7,458	9,856

Alternative 2A,2B,2C (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	8,298	9,484	7,380	3,731	3,881	2,664	3,088	5,839	8,127	8,612	8,924	9,787
20%	6,019	7,299	5,687	3,087	2,698	2,296	2,745	4,320	5,636	8,116	8,347	9,602
30%	5,784	6,304	5,256	2,830	1,687	1,579	1,898	2,562	4,668	6,483	7,795	8,971
40%	5,404	5,682	4,956	2,725	1,520	1,304	1,579	2,510	3,704	6,178	6,751	8,317
50%	4,711	4,586	4,286	2,281	1,093	906	888	2,152	3,362	5,458	6,568	7,965
60%	3,016	3,077	3,966	1,491	664	437	603	1,150	3,228	3,496	6,203	6,574
70%	1,980	2,553	3,384	752	238	229	388	1,130	2,222	3,264	5,702	3,323
80%	1,372	1,781	1,145	280	212	210	333	685	1,756	3,161	5,571	2,309
90%	1,331	935	206	219	204	198	235	309	1,153	2,882	5,466	1,879
Long Term												
Full Simulation Period[a]	4,436	4,805	4,156	2,036	1,514	1,223	1,439	2,478	3,968	5,276	6,909	6,397
Water Year Types[b]												
Wet (31%)	3,309	3,313	1,160	649	207	203	327	877	1,730	2,597	5,755	1,959
Above Normal (25%)	6,496	7,585	5,321	347	231	219	324	527	1,632	3,113	5,639	3,323
Below Normal (6%)	3,016	3,077	5,101	2,725	778	437	648	1,150	1,756	4,881	7,537	9,937
Dry (13%)	3,258	4,228	3,636	2,822	2,083	1,221	1,293	2,132	3,655	5,624	6,578	8,529
Critical (25%)	5,739	5,694	6,314	3,057	2,767	2,598	3,051	5,080	7,385	8,086	8,480	8,765

Alternative 2A,2B,2C (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,168	-990	-1,971	-1,518	-1,297	-333	**419**	**940**	**920**	**1,263**	**877**	-132
20%	-2,670	-1,744	-2,462	-1,602	**161**	**235**	**310**	**520**	**542**	**2,427**	**1,485**	**19**
30%	-2,698	-2,527	-1,404	-796	-467	**51**	**262**	**136**	**647**	**880**	**1,359**	-253
40%	-2,674	-2,893	**198**	-341	-449	**478**	**433**	**139**	-69	**1,011**	**946**	-393
50%	-2,990	-1,835	-280	-610	-56	**238**	**186**	**204**	**225**	**1,024**	**1,733**	-600
60%	-442	-537	-487	-470	**181**	**143**	**130**	**78**	**680**	**848**	**1,621**	-1,287
70%	-314	-245	-470	**32**	**33**	**29**	**69**	**227**	-70	**1,019**	**1,328**	**18**
80%	**73**	**35**	-565	**26**	**12**	**11**	**50**	**154**	**169**	**1,137**	**1,246**	**130**
90%	**52**	**69**	**2**	**14**	**15**	**5**	**30**	**42**	-21	**1,384**	**1,295**	**300**
Long Term												
Full Simulation Period[a]	-1,317	-1,012	-720	-708	-348	**64**	**189**	**269**	**347**	**1,059**	**1,313**	-210
Water Year Types[b]												
Wet (31%)	-1,478	-602	-156	**8**	**15**	**9**	**44**	**168**	**167**	**895**	**1,545**	**268**
Above Normal (25%)	-2,329	-1,324	-1,094	-44	**25**	**22**	**70**	**95**	-78	**1,188**	**1,392**	**18**
Below Normal (6%)	-442	-537	-146	-291	**113**	**143**	**138**	**257**	**169**	**518**	**1,732**	**1,227**
Dry (13%)	-340	-178	-1,057	-1,198	-277	**238**	**165**	**84**	**176**	**1,122**	**1,299**	-61
Critical (25%)	-1,741	-1,978	-867	-1,237	-938	-30	**381**	**569**	**833**	**1,198**	**1,022**	-1,091

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-35-16. Sacramento River at Collinsville, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,466	10,474	9,351	5,249	5,178	2,997	2,669	4,898	7,206	7,349	8,047	9,919
20%	8,689	9,043	8,149	4,689	2,537	2,061	2,435	3,800	5,094	5,689	6,863	9,582
30%	8,482	8,831	6,659	3,627	2,154	1,528	1,635	2,426	4,021	5,603	6,436	9,224
40%	8,079	8,575	4,758	3,066	1,968	826	1,146	2,371	3,773	5,167	5,804	8,710
50%	7,701	6,421	4,566	2,892	1,149	668	702	1,948	3,137	4,434	4,835	8,565
60%	3,458	3,614	4,452	1,962	482	293	473	1,073	2,548	2,648	4,582	7,862
70%	2,294	2,798	3,854	720	205	200	319	903	2,292	2,245	4,374	3,305
80%	1,300	1,746	1,710	254	200	199	284	531	1,587	2,024	4,325	2,180
90%	1,279	866	204	205	190	193	204	267	1,173	1,498	4,171	1,579
Long Term												
Full Simulation Period[a]	5,753	5,817	4,876	2,744	1,863	1,159	1,251	2,209	3,621	4,217	5,596	6,608
Water Year Types[b]												
Wet (31%)	4,787	3,915	1,316	641	192	194	283	709	1,563	1,702	4,210	1,691
Above Normal (25%)	8,825	8,910	6,415	391	205	197	254	432	1,710	1,925	4,247	3,305
Below Normal (6%)	3,458	3,614	5,247	3,016	665	293	511	893	1,587	4,363	5,804	8,710
Dry (13%)	3,597	4,406	4,692	4,020	2,360	984	1,128	2,048	3,479	4,502	5,279	8,590
Critical (25%)	7,480	7,672	7,181	4,293	3,705	2,628	2,671	4,511	6,552	6,889	7,458	9,856

Alternative 3 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,024	8,741	8,215	4,397	3,745	2,862	3,143	5,990	7,994	8,469	9,068	9,735
20%	8,598	8,447	7,867	4,242	3,214	2,361	2,792	4,439	5,398	7,956	7,808	9,567
30%	7,935	7,846	7,043	3,692	2,650	1,431	1,825	2,848	4,731	6,509	7,640	9,378
40%	7,153	6,958	6,115	3,335	1,897	992	1,543	2,774	3,694	6,371	7,082	9,087
50%	5,721	6,062	5,606	2,813	1,134	958	1,209	2,633	3,520	5,452	6,533	8,772
60%	5,381	5,196	5,465	2,329	680	316	842	2,384	3,318	3,567	5,996	8,397
70%	4,014	4,879	4,251	783	216	212	420	1,272	2,783	3,458	5,752	8,120
80%	3,210	3,597	2,386	315	206	205	376	1,177	2,255	3,155	5,605	7,536
90%	2,796	1,910	203	208	195	196	218	423	1,205	2,846	5,528	7,010
Long Term												
Full Simulation Period[a]	5,932	5,843	5,117	2,492	1,620	1,213	1,503	2,760	4,078	5,311	6,881	8,360
Water Year Types[b]												
Wet (31%)	4,680	3,628	1,303	735	199	200	401	1,182	1,802	2,576	5,689	7,363
Above Normal (25%)	6,236	6,731	5,572	359	211	203	314	878	2,181	3,361	5,832	8,662
Below Normal (6%)	4,038	5,023	7,198	3,335	682	316	1,046	2,384	2,255	5,113	7,577	10,161
Dry (13%)	7,945	7,741	5,814	3,611	2,299	1,119	1,297	2,345	3,751	5,537	6,442	8,453
Critical (25%)	5,581	5,906	7,013	3,686	2,966	2,684	3,117	5,182	7,285	8,139	8,466	8,601

Alternative 3 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-442	-1,732	-1,136	-852	-1,433	-136	**474**	**1,092**	**787**	**1,120**	**1,020**	-184
20%	-90	-595	-282	-447	**678**	**301**	**357**	**639**	**303**	**2,267**	**946**	-16
30%	-546	-985	**384**	**66**	**496**	-97	**189**	**423**	**711**	**906**	**1,204**	**154**
40%	-925	-1,617	**1,357**	**269**	-72	**166**	**397**	**403**	-79	**1,204**	**1,278**	**377**
50%	-1,980	-358	**1,040**	-79	-15	**290**	**507**	**685**	**383**	**1,018**	**1,698**	**208**
60%	**1,923**	**1,582**	**1,013**	**367**	**198**	**23**	**369**	**1,312**	**770**	**919**	**1,414**	**536**
70%	**1,720**	**2,081**	**397**	**62**	**11**	**12**	**101**	**369**	**491**	**1,213**	**1,378**	**4,815**
80%	**1,910**	**1,851**	**676**	**61**	**6**	**5**	**93**	**646**	**668**	**1,132**	**1,280**	**5,356**
90%	**1,517**	**1,044**	-1	**3**	**5**	**3**	**14**	**156**	**32**	**1,348**	**1,356**	**5,431**
Long Term												
Full Simulation Period[a]	**179**	**26**	**241**	-253	-243	**55**	**252**	**551**	**457**	**1,094**	**1,285**	**1,752**
Water Year Types[b]												
Wet (31%)	-108	-287	-13	**94**	**7**	**6**	**118**	**472**	**239**	**874**	**1,480**	**5,672**
Above Normal (25%)	-2,589	-2,179	-843	-33	**6**	**6**	**60**	**446**	**471**	**1,436**	**1,585**	**5,357**
Below Normal (6%)	**580**	**1,409**	**1,951**	**320**	**17**	**23**	**535**	**1,491**	**668**	**750**	**1,773**	**1,451**
Dry (13%)	**4,347**	**3,335**	**1,122**	-409	-61	**135**	**169**	**297**	**272**	**1,035**	**1,164**	-137
Critical (25%)	-1,898	-1,766	-168	-607	-739	**56**	**446**	**670**	**733**	**1,250**	**1,007**	-1,255

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-35-17. Sacramento River at Collinsville, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,466	10,474	9,351	5,249	5,178	2,997	2,669	4,898	7,206	7,349	8,047	9,919
20%	8,689	9,043	8,149	4,689	2,537	2,061	2,435	3,800	5,094	5,689	6,863	9,582
30%	8,482	8,831	6,659	3,627	2,154	1,528	1,635	2,426	4,021	5,603	6,436	9,224
40%	8,079	8,575	4,758	3,066	1,968	826	1,146	2,371	3,773	5,167	5,804	8,710
50%	7,701	6,421	4,566	2,892	1,149	668	702	1,948	3,137	4,434	4,835	8,565
60%	3,458	3,614	4,452	1,962	482	293	473	1,073	2,548	2,648	4,582	7,862
70%	2,294	2,798	3,854	720	205	200	319	903	2,292	2,245	4,374	3,305
80%	1,300	1,746	1,710	254	200	199	284	531	1,587	2,024	4,325	2,180
90%	1,279	866	204	205	190	193	204	267	1,173	1,498	4,171	1,579
Long Term												
Full Simulation Period[a]	5,753	5,817	4,876	2,744	1,863	1,159	1,251	2,209	3,621	4,217	5,596	6,608
Water Year Types[b]												
Wet (31%)	4,787	3,915	1,316	641	192	194	283	709	1,563	1,702	4,210	1,691
Above Normal (25%)	8,825	8,910	6,415	391	205	197	254	432	1,710	1,925	4,247	3,305
Below Normal (6%)	3,458	3,614	5,247	3,016	665	293	511	893	1,587	4,363	5,804	8,710
Dry (13%)	3,597	4,406	4,692	4,020	2,360	984	1,128	2,048	3,479	4,502	5,279	8,590
Critical (25%)	7,480	7,672	7,181	4,293	3,705	2,628	2,671	4,511	6,552	6,889	7,458	9,856

Alternative 4 H1 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	8,274	9,809	8,215	3,501	3,664	2,585	3,116	5,751	8,122	8,636	8,974	9,702
20%	7,496	7,538	7,319	3,114	2,262	2,367	2,780	4,334	5,391	7,955	8,304	9,433
30%	6,735	6,983	6,355	2,925	1,862	1,555	1,794	2,662	4,668	6,557	7,635	9,175
40%	6,130	6,431	5,764	2,265	1,473	1,026	1,614	2,534	4,178	6,362	7,097	8,928
50%	5,946	6,194	5,601	1,960	982	915	857	2,215	3,439	5,207	6,433	8,809
60%	5,750	5,935	5,098	1,357	661	360	603	1,154	3,237	3,571	5,840	8,223
70%	5,437	5,025	3,889	745	226	223	403	1,122	2,219	3,353	5,747	8,142
80%	4,705	4,494	973	267	205	208	332	706	1,592	3,159	5,565	7,930
90%	4,128	2,335	196	211	197	197	232	303	1,161	2,687	5,480	6,306
Long Term												
Full Simulation Period[a]	6,044	6,032	4,780	2,089	1,526	1,196	1,433	2,492	3,984	5,286	6,859	8,234
Water Year Types[b]												
Wet (31%)	4,535	3,268	1,134	612	201	202	327	871	1,722	2,580	5,667	7,483
Above Normal (25%)	6,718	7,763	5,431	328	218	212	323	538	1,657	3,087	5,596	8,532
Below Normal (6%)	4,544	5,299	7,319	3,135	693	360	622	1,154	1,592	4,727	7,495	9,945
Dry (13%)	7,004	7,070	5,237	2,843	2,039	1,150	1,273	2,212	3,812	5,514	6,386	7,788
Critical (25%)	6,514	6,868	6,564	3,162	2,866	2,590	3,051	5,061	7,339	8,258	8,569	8,731

Alternative 4 H1 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,192	-665	-1,136	-1,748	-1,514	-412	**447**	**853**	**915**	**1,287**	**927**	-218
20%	-1,193	-1,505	-830	-1,576	-275	**307**	**345**	**534**	**297**	**2,266**	**1,442**	-150
30%	-1,747	-1,848	-305	-702	-292	**26**	**159**	**236**	**647**	**954**	**1,199**	-50
40%	-1,949	-2,145	**1,006**	-801	-496	**200**	**468**	**162**	**405**	**1,195**	**1,293**	**218**
50%	-1,755	-227	**1,035**	-931	-167	**248**	**155**	**267**	**302**	**774**	**1,598**	**244**
60%	**2,292**	**2,321**	**645**	-605	**179**	**66**	**130**	**81**	**689**	**923**	**1,258**	**362**
70%	**3,143**	**2,227**	**35**	**24**	**21**	**23**	**84**	**219**	-73	**1,108**	**1,374**	**4,837**
80%	**3,405**	**2,748**	-737	**13**	**5**	**9**	**48**	**175**	**5**	**1,135**	**1,240**	**5,751**
90%	**2,849**	**1,469**	-9	**6**	**7**	**4**	**27**	**36**	-12	**1,189**	**1,309**	**4,727**
Long Term												
Full Simulation Period[a]	**291**	**215**	-96	-655	-337	**38**	**182**	**283**	**363**	**1,069**	**1,263**	**1,626**
Water Year Types[b]												
Wet (31%)	-252	-647	-182	-29	**10**	**9**	**44**	**161**	**159**	**878**	**1,457**	**5,792**
Above Normal (25%)	-2,107	-1,146	-984	-63	**12**	**15**	**69**	**106**	-53	**1,161**	**1,349**	**5,227**
Below Normal (6%)	**1,086**	**1,685**	**2,071**	**120**	**27**	**66**	**112**	**261**	**5**	**364**	**1,691**	**1,236**
Dry (13%)	**3,407**	**2,665**	**545**	-1,178	-321	**166**	**145**	**164**	**334**	**1,012**	**1,108**	-802
Critical (25%)	-965	-804	-617	-1,131	-839	-38	**381**	**550**	**787**	**1,370**	**1,110**	-1,125

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-35-18. Sacramento River at Collinsville, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,466	10,474	9,351	5,249	5,178	2,997	2,669	4,898	7,206	7,349	8,047	9,919
20%	8,689	9,043	8,149	4,689	2,537	2,061	2,435	3,800	5,094	5,689	6,863	9,582
30%	8,482	8,831	6,659	3,627	2,154	1,528	1,635	2,426	4,021	5,603	6,436	9,224
40%	8,079	8,575	4,758	3,066	1,968	826	1,146	2,371	3,773	5,167	5,804	8,710
50%	7,701	6,421	4,566	2,892	1,149	668	702	1,948	3,137	4,434	4,835	8,565
60%	3,458	3,614	4,452	1,962	482	293	473	1,073	2,548	2,648	4,582	7,862
70%	2,294	2,798	3,854	720	205	200	319	903	2,292	2,245	4,374	3,305
80%	1,300	1,746	1,710	254	200	199	284	531	1,587	2,024	4,325	2,180
90%	1,279	866	204	205	190	193	204	267	1,173	1,498	4,171	1,579
Long Term												
Full Simulation Period[a]	5,753	5,817	4,876	2,744	1,863	1,159	1,251	2,209	3,621	4,217	5,596	6,608
Water Year Types[b]												
Wet (31%)	4,787	3,915	1,316	641	192	194	283	709	1,563	1,702	4,210	1,691
Above Normal (25%)	8,825	8,910	6,415	391	205	197	254	432	1,710	1,925	4,247	3,305
Below Normal (6%)	3,458	3,614	5,247	3,016	665	293	511	893	1,587	4,363	5,804	8,710
Dry (13%)	3,597	4,406	4,692	4,020	2,360	984	1,128	2,048	3,479	4,502	5,279	8,590
Critical (25%)	7,480	7,672	7,181	4,293	3,705	2,628	2,671	4,511	6,552	6,889	7,458	9,856

Alternative 4 H2 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	8,195	9,677	8,273	4,314	3,676	2,531	2,895	5,680	8,034	8,342	8,860	9,814
20%	7,867	8,367	7,623	3,823	2,436	2,016	2,708	4,116	5,569	8,117	8,598	9,573
30%	6,661	7,442	7,117	3,198	1,942	1,498	1,726	2,648	4,656	6,554	7,571	9,016
40%	6,514	6,596	6,913	2,711	1,518	1,062	1,614	2,579	4,183	6,275	7,118	8,864
50%	6,359	6,028	5,671	2,259	1,070	890	843	1,854	3,658	5,544	6,632	8,494
60%	5,442	5,408	4,890	1,180	610	341	436	1,046	2,336	4,075	6,090	8,140
70%	5,112	4,791	3,811	714	228	225	299	783	1,891	3,414	5,820	8,016
80%	4,470	3,874	862	256	205	207	221	372	1,576	3,387	5,663	7,877
90%	3,694	2,155	193	211	198	197	194	259	1,173	2,991	5,538	7,445
Long Term												
Full Simulation Period[a]	5,979	6,006	4,975	2,154	1,515	1,149	1,353	2,346	3,913	5,426	6,937	8,311
Water Year Types[b]												
Wet (31%)	4,645	3,181	1,151	642	202	202	229	511	1,407	2,615	5,732	7,066
Above Normal (25%)	6,625	7,644	5,174	311	220	215	238	327	1,476	3,410	5,958	8,503
Below Normal (6%)	8,058	8,367	7,200	2,711	610	341	599	989	1,668	4,882	7,560	9,947
Dry (13%)	6,570	6,871	5,578	3,267	2,179	1,111	1,224	2,243	3,923	5,847	6,519	8,764
Critical (25%)	5,898	6,446	7,027	3,100	2,734	2,471	2,954	4,978	7,335	8,251	8,502	8,541

Alternative 4 H2 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,271	-796	-1,078	-935	-1,501	-466	**226**	**782**	**828**	**993**	**813**	-105
20%	-822	-676	-526	-866	-100	-45	**273**	**316**	**474**	**2,428**	**1,735**	-10
30%	-1,821	-1,389	**458**	-429	-213	-30	**91**	**222**	**636**	**951**	**1,135**	-208
40%	-1,564	-1,979	**2,155**	-355	-451	**236**	**467**	**208**	**409**	**1,108**	**1,313**	**154**
50%	-1,342	-393	**1,105**	-632	-79	**222**	**141**	-94	**521**	**1,110**	**1,797**	-70
60%	**1,984**	**1,794**	**438**	-781	**128**	**48**	-37	-26	-212	**1,427**	**1,508**	**278**
70%	**2,818**	**1,994**	-43	-6	**23**	**26**	-21	-121	-401	**1,169**	**1,446**	**4,711**
80%	**3,170**	**2,127**	-847	**3**	**5**	**8**	-63	-159	-11	**1,363**	**1,338**	**5,697**
90%	**2,415**	**1,289**	-11	**6**	**9**	**4**	-10	-8	-1	**1,493**	**1,367**	**5,866**
Long Term												
Full Simulation Period[a]	**226**	**188**	**99**	-590	-347	-10	**102**	**138**	**292**	**1,209**	**1,341**	**1,703**
Water Year Types[b]												
Wet (31%)	-142	-734	-165	**1**	**11**	**9**	-54	-198	-156	**913**	**1,523**	**5,375**
Above Normal (25%)	-2,200	-1,266	-1,241	-80	**14**	**18**	-15	-105	-234	**1,485**	**1,711**	**5,198**
Below Normal (6%)	**4,600**	**4,753**	**1,953**	-304	-55	**48**	**88**	**96**	**81**	**519**	**1,756**	**1,237**
Dry (13%)	**2,973**	**2,466**	**886**	-754	-181	**127**	**96**	**195**	**444**	**1,345**	**1,241**	**174**
Critical (25%)	-1,581	-1,226	-154	-1,194	-970	-157	**283**	**466**	**783**	**1,362**	**1,044**	-1,315

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-35-19. Sacramento River at Collinsville, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,466	10,474	9,351	5,249	5,178	2,997	2,669	4,898	7,206	7,349	8,047	9,919
20%	8,689	9,043	8,149	4,689	2,537	2,061	2,435	3,800	5,094	5,689	6,863	9,582
30%	8,482	8,831	6,659	3,627	2,154	1,528	1,635	2,426	4,021	5,603	6,436	9,224
40%	8,079	8,575	4,758	3,066	1,968	826	1,146	2,371	3,773	5,167	5,804	8,710
50%	7,701	6,421	4,566	2,892	1,149	668	702	1,948	3,137	4,434	4,835	8,565
60%	3,458	3,614	4,452	1,962	482	293	473	1,073	2,548	2,648	4,582	7,862
70%	2,294	2,798	3,854	720	205	200	319	903	2,292	2,245	4,374	3,305
80%	1,300	1,746	1,710	254	200	199	284	531	1,587	2,024	4,325	2,180
90%	1,279	866	204	205	190	193	204	267	1,173	1,498	4,171	1,579
Long Term												
Full Simulation Period[a]	5,753	5,817	4,876	2,744	1,863	1,159	1,251	2,209	3,621	4,217	5,596	6,608
Water Year Types[b]												
Wet (31%)	4,787	3,915	1,316	641	192	194	283	709	1,563	1,702	4,210	1,691
Above Normal (25%)	8,825	8,910	6,415	391	205	197	254	432	1,710	1,925	4,247	3,305
Below Normal (6%)	3,458	3,614	5,247	3,016	665	293	511	893	1,587	4,363	5,804	8,710
Dry (13%)	3,597	4,406	4,692	4,020	2,360	984	1,128	2,048	3,479	4,502	5,279	8,590
Critical (25%)	7,480	7,672	7,181	4,293	3,705	2,628	2,671	4,511	6,552	6,889	7,458	9,856

Alternative 4 H3 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	8,363	9,554	6,854	3,717	4,091	2,650	3,088	5,823	8,144	8,682	8,913	9,593
20%	7,904	8,123	5,371	3,091	2,693	2,389	2,763	4,321	5,638	8,115	8,517	9,256
30%	6,616	6,863	5,273	2,790	1,908	1,583	1,896	2,573	4,675	6,806	7,825	8,888
40%	5,709	6,355	4,813	2,726	1,464	1,081	1,569	2,513	3,824	6,284	7,409	8,460
50%	4,657	4,220	4,286	1,891	1,009	889	882	2,176	3,447	5,355	6,413	7,764
60%	3,054	3,083	3,866	1,433	625	378	603	1,154	3,234	3,502	5,874	6,466
70%	1,977	2,541	3,376	714	226	223	401	1,133	2,230	3,294	5,700	3,282
80%	1,372	1,784	1,105	266	205	208	332	687	1,770	3,178	5,541	2,296
90%	1,322	921	196	211	197	198	232	303	1,155	2,680	5,472	1,842
Long Term												
Full Simulation Period[a]	4,619	4,940	4,050	1,992	1,552	1,227	1,445	2,482	3,993	5,324	6,927	6,310
Water Year Types[b]												
Wet (31%)	3,804	3,253	1,143	617	201	202	327	873	1,736	2,526	5,630	1,940
Above Normal (25%)	6,340	7,435	5,083	316	217	212	321	528	1,634	3,096	5,620	3,282
Below Normal (6%)	3,054	3,083	5,193	2,780	626	378	633	1,154	1,770	4,918	7,577	9,961
Dry (13%)	3,285	4,233	3,623	2,776	2,053	1,150	1,296	2,151	3,730	5,547	6,550	8,183
Critical (25%)	5,962	6,230	6,077	2,979	2,950	2,685	3,070	5,082	7,399	8,358	8,659	8,788

Alternative 4 H3 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,103	-919	-2,497	-1,532	-1,086	-347	**419**	**925**	**937**	**1,333**	**866**	-327
20%	-785	-920	-2,778	-1,598	**157**	**328**	**328**	**522**	**543**	**2,426**	**1,655**	-326
30%	-1,865	-1,968	-1,387	-837	-247	**55**	**260**	**147**	**655**	**1,203**	**1,389**	-336
40%	-2,370	-2,220	**55**	-340	-504	**255**	**422**	**141**	**51**	**1,117**	**1,605**	-250
50%	-3,044	-2,201	-280	-1,000	-141	**221**	**180**	**228**	**310**	**921**	**1,578**	-800
60%	-404	-531	-587	-529	**143**	**85**	**130**	**82**	**686**	**854**	**1,292**	-1,395
70%	-317	-257	-478	-7	**21**	**23**	**82**	**229**	-62	**1,048**	**1,326**	-23
80%	**72**	**38**	-605	**12**	**5**	**9**	**49**	**155**	**183**	**1,155**	**1,216**	**117**
90%	**43**	**55**	-9	**6**	**7**	**5**	**27**	**36**	-18	**1,182**	**1,301**	**263**
Long Term												
Full Simulation Period[a]	-1,134	-877	-826	-752	-311	**68**	**194**	**273**	**372**	**1,107**	**1,331**	-298
Water Year Types[b]												
Wet (31%)	-983	-662	-173	-24	**10**	**9**	**44**	**164**	**173**	**824**	**1,420**	**249**
Above Normal (25%)	-2,485	-1,475	-1,332	-75	**12**	**15**	**68**	**96**	-76	**1,170**	**1,373**	-23
Below Normal (6%)	-404	-531	-54	-236	-40	**85**	**123**	**261**	**183**	**555**	**1,773**	**1,251**
Dry (13%)	-313	-173	-1,070	-1,244	-307	**166**	**168**	**103**	**251**	**1,045**	**1,272**	-406
Critical (25%)	-1,518	-1,442	-1,104	-1,315	-755	**56**	**399**	**570**	**847**	**1,469**	**1,201**	-1,068

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-35-20. Sacramento River at Collinsville, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,466	10,474	9,351	5,249	5,178	2,997	2,669	4,898	7,206	7,349	8,047	9,919
20%	8,689	9,043	8,149	4,689	2,537	2,061	2,435	3,800	5,094	5,689	6,863	9,582
30%	8,482	8,831	6,659	3,627	2,154	1,528	1,635	2,426	4,021	5,603	6,436	9,224
40%	8,079	8,575	4,758	3,066	1,968	826	1,146	2,371	3,773	5,167	5,804	8,710
50%	7,701	6,421	4,566	2,892	1,149	668	702	1,948	3,137	4,434	4,835	8,565
60%	3,458	3,614	4,452	1,962	482	293	473	1,073	2,548	2,648	4,582	7,862
70%	2,294	2,798	3,854	720	205	200	319	903	2,292	2,245	4,374	3,305
80%	1,300	1,746	1,710	254	200	199	284	531	1,587	2,024	4,325	2,180
90%	1,279	866	204	205	190	193	204	267	1,173	1,498	4,171	1,579
Long Term												
Full Simulation Period[a]	5,753	5,817	4,876	2,744	1,863	1,159	1,251	2,209	3,621	4,217	5,596	6,608
Water Year Types[b]												
Wet (31%)	4,787	3,915	1,316	641	192	194	283	709	1,563	1,702	4,210	1,691
Above Normal (25%)	8,825	8,910	6,415	391	205	197	254	432	1,710	1,925	4,247	3,305
Below Normal (6%)	3,458	3,614	5,247	3,016	665	293	511	893	1,587	4,363	5,804	8,710
Dry (13%)	3,597	4,406	4,692	4,020	2,360	984	1,128	2,048	3,479	4,502	5,279	8,590
Critical (25%)	7,480	7,672	7,181	4,293	3,705	2,628	2,671	4,511	6,552	6,889	7,458	9,856

Alternative 4 H4 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	8,480	9,019	8,162	4,901	4,372	2,632	2,983	5,643	8,015	8,341	8,736	9,587
20%	7,159	7,785	6,312	3,805	3,476	2,291	2,686	4,118	5,570	8,049	8,064	8,630
30%	5,913	6,699	5,337	3,357	1,963	1,555	1,707	2,644	4,676	6,638	7,643	8,451
40%	5,005	5,255	4,829	2,766	1,534	1,041	1,568	2,585	4,170	6,587	7,145	8,137
50%	4,269	3,591	4,256	2,329	1,004	890	871	1,859	3,711	5,533	6,733	7,965
60%	2,971	3,098	3,737	1,444	611	377	436	1,106	2,382	4,040	6,110	7,872
70%	1,970	2,580	3,358	732	226	224	297	783	1,851	3,408	5,856	3,337
80%	1,362	1,764	1,103	256	205	208	221	372	1,445	3,302	5,579	2,284
90%	1,307	942	192	213	200	197	194	260	1,168	2,986	5,542	1,845
Long Term												
Full Simulation Period[a]	4,432	4,691	4,236	2,411	1,694	1,198	1,369	2,348	3,910	5,412	6,911	6,318
Water Year Types[b]												
Wet (31%)	3,376	2,923	1,138	645	203	202	228	526	1,417	2,590	5,729	1,936
Above Normal (25%)	6,478	7,442	5,186	317	218	213	238	328	1,478	3,408	5,974	3,337
Below Normal (6%)	2,971	3,098	5,132	2,701	611	377	614	990	1,445	4,575	7,337	10,026
Dry (13%)	3,251	4,207	3,837	2,888	2,115	1,105	1,224	2,248	3,948	5,976	6,626	8,837
Critical (25%)	5,697	5,712	6,474	4,220	3,357	2,626	3,003	4,965	7,339	8,188	8,376	8,260

Alternative 4 H4 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-986	-1,455	-1,189	-348	-806	-365	**314**	**745**	**809**	**991**	**688**	-333
20%	-1,530	-1,258	-1,837	-884	**940**	**231**	**251**	**318**	**476**	**2,360**	**1,201**	-952
30%	-2,568	-2,131	-1,322	-269	-191	**27**	**71**	**218**	**655**	**1,035**	**1,206**	-773
40%	-3,074	-3,320	**71**	-300	-434	**216**	**421**	**214**	**397**	**1,420**	**1,341**	-573
50%	-3,432	-2,830	-310	-563	-145	**222**	**169**	-89	**574**	**1,099**	**1,898**	-600
60%	-487	-516	-716	-518	**129**	**83**	-37	**33**	-166	**1,392**	**1,529**	**11**
70%	-323	-218	-496	**11**	**21**	**24**	-22	-120	-441	**1,163**	**1,483**	**32**
80%	**62**	**18**	-607	**2**	**5**	**9**	-63	-159	-142	**1,278**	**1,254**	**104**
90%	**28**	**75**	-12	**8**	**11**	**4**	-11	-7	-5	**1,488**	**1,371**	**266**
Long Term												
Full Simulation Period[a]	-1,320	-1,126	-640	-334	-169	**39**	**119**	**139**	**289**	**1,195**	**1,315**	-290
Water Year Types[b]												
Wet (31%)	-1,411	-992	-178	**5**	**12**	**9**	-55	-184	-146	**888**	**1,519**	**245**
Above Normal (25%)	-2,347	-1,468	-1,230	-74	**13**	**16**	-16	-104	-232	**1,483**	**1,727**	**32**
Below Normal (6%)	-487	-516	-115	-314	-54	**83**	**104**	**97**	-142	**212**	**1,532**	**1,317**
Dry (13%)	-347	-199	-856	-1,133	-245	**121**	**96**	**200**	**469**	**1,474**	**1,348**	**247**
Critical (25%)	-1,783	-1,960	-706	-73	-348	-2	**332**	**454**	**787**	**1,299**	**917**	-1,596

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-35-21. Sacramento River at Collinsville, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,466	10,474	9,351	5,249	5,178	2,997	2,669	4,898	7,206	7,349	8,047	9,919
20%	8,689	9,043	8,149	4,689	2,537	2,061	2,435	3,800	5,094	5,689	6,863	9,582
30%	8,482	8,831	6,659	3,627	2,154	1,528	1,635	2,426	4,021	5,603	6,436	9,224
40%	8,079	8,575	4,758	3,066	1,968	826	1,146	2,371	3,773	5,167	5,804	8,710
50%	7,701	6,421	4,566	2,892	1,149	668	702	1,948	3,137	4,434	4,835	8,565
60%	3,458	3,614	4,452	1,962	482	293	473	1,073	2,548	2,648	4,582	7,862
70%	2,294	2,798	3,854	720	205	200	319	903	2,292	2,245	4,374	3,305
80%	1,300	1,746	1,710	254	200	199	284	531	1,587	2,024	4,325	2,180
90%	1,279	866	204	205	190	193	204	267	1,173	1,498	4,171	1,579
Long Term												
Full Simulation Period[a]	5,753	5,817	4,876	2,744	1,863	1,159	1,251	2,209	3,621	4,217	5,596	6,608
Water Year Types[b]												
Wet (31%)	4,787	3,915	1,316	641	192	194	283	709	1,563	1,702	4,210	1,691
Above Normal (25%)	8,825	8,910	6,415	391	205	197	254	432	1,710	1,925	4,247	3,305
Below Normal (6%)	3,458	3,614	5,247	3,016	665	293	511	893	1,587	4,363	5,804	8,710
Dry (13%)	3,597	4,406	4,692	4,020	2,360	984	1,128	2,048	3,479	4,502	5,279	8,590
Critical (25%)	7,480	7,672	7,181	4,293	3,705	2,628	2,671	4,511	6,552	6,889	7,458	9,856

Alternative 5 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,205	8,910	8,219	4,884	4,222	3,007	2,910	5,517	7,913	8,451	8,999	9,572
20%	8,863	7,292	7,743	4,693	2,742	2,256	2,411	4,369	5,659	7,592	8,383	9,359
30%	7,735	6,889	5,354	3,616	2,462	1,767	1,809	2,684	4,831	6,549	7,620	8,921
40%	5,840	6,319	5,128	2,941	1,750	972	1,501	2,663	4,232	5,838	6,534	8,554
50%	5,407	5,663	4,668	2,830	1,217	911	881	2,322	3,671	5,120	6,074	8,088
60%	3,497	3,256	4,290	2,800	651	374	588	1,186	3,216	3,853	5,920	7,452
70%	2,317	2,613	3,703	722	210	205	405	1,160	2,525	3,555	5,741	3,244
80%	1,371	1,850	1,962	262	202	200	340	730	1,792	3,014	5,467	2,288
90%	1,330	950	200	206	193	195	210	315	1,239	2,829	5,325	1,748
Long Term												
Full Simulation Period[a]	5,141	4,989	4,548	2,560	1,709	1,261	1,380	2,498	4,088	5,228	6,772	6,400
Water Year Types[b]												
Wet (31%)	5,012	3,721	1,427	851	196	197	324	896	1,774	2,672	5,632	1,881
Above Normal (25%)	8,204	8,869	5,354	302	208	199	293	566	1,922	3,213	5,540	3,244
Below Normal (6%)	3,497	3,256	4,855	2,941	771	374	613	1,137	1,792	4,676	6,883	9,605
Dry (13%)	3,770	4,071	4,792	4,157	2,420	1,245	1,306	2,302	3,977	5,590	6,375	8,588
Critical (25%)	5,445	5,534	6,466	3,477	3,138	2,728	2,870	4,981	7,353	7,901	8,471	8,887

Alternative 5 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-261	-1,563	-1,132	-365	-956	**10**	**241**	**619**	**707**	**1,102**	**951**	-348
20%	**175**	-1,751	-406	**3**	**205**	**195**	-24	**569**	**564**	**1,903**	**1,520**	-224
30%	-746	-1,942	-1,306	-11	**308**	**238**	**174**	**258**	**811**	**946**	**1,183**	-303
40%	-2,238	-2,256	**370**	-125	-218	**147**	**354**	**291**	**459**	**671**	**730**	-155
50%	-2,294	-758	**102**	-61	**68**	**244**	**179**	**374**	**534**	**686**	**1,239**	-477
60%	**39**	-358	-163	**838**	**168**	**81**	**115**	**114**	**668**	**1,205**	**1,339**	-410
70%	**23**	-185	-150	**1**	**5**	**5**	**86**	**257**	**232**	**1,310**	**1,368**	-61
80%	**71**	**104**	**252**	**8**	**2**	**1**	**56**	**199**	**205**	**990**	**1,143**	**108**
90%	**51**	**84**	-4	**1**	**4**	**2**	**5**	**48**	**65**	**1,331**	**1,154**	**168**
Long Term												
Full Simulation Period[a]	-612	-828	-328	-184	-154	**103**	**129**	**289**	**467**	**1,011**	**1,175**	-208
Water Year Types[b]												
Wet (31%)	**224**	-194	**111**	**210**	**4**	**3**	**41**	**187**	**211**	**970**	**1,422**	**190**
Above Normal (25%)	-621	-41	-1,061	-89	**3**	**2**	**39**	**134**	**212**	**1,288**	**1,293**	-61
Below Normal (6%)	**39**	-358	-392	-75	**105**	**81**	**103**	**244**	**205**	**312**	**1,079**	**895**
Dry (13%)	**172**	-334	**100**	**137**	**60**	**262**	**179**	**254**	**498**	**1,088**	**1,096**	-2
Critical (25%)	-2,035	-2,138	-715	-816	-566	**100**	**200**	**470**	**801**	**1,012**	**1,013**	-969

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-35-22. Sacramento River at Collinsville, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,466	10,474	9,351	5,249	5,178	2,997	2,669	4,898	7,206	7,349	8,047	9,919
20%	8,689	9,043	8,149	4,689	2,537	2,061	2,435	3,800	5,094	5,689	6,863	9,582
30%	8,482	8,831	6,659	3,627	2,154	1,528	1,635	2,426	4,021	5,603	6,436	9,224
40%	8,079	8,575	4,758	3,066	1,968	826	1,146	2,371	3,773	5,167	5,804	8,710
50%	7,701	6,421	4,566	2,892	1,149	668	702	1,948	3,137	4,434	4,835	8,565
60%	3,458	3,614	4,452	1,962	482	293	473	1,073	2,548	2,648	4,582	7,862
70%	2,294	2,798	3,854	720	205	200	319	903	2,292	2,245	4,374	3,305
80%	1,300	1,746	1,710	254	200	199	284	531	1,587	2,024	4,325	2,180
90%	1,279	866	204	205	190	193	204	267	1,173	1,498	4,171	1,579
Long Term												
Full Simulation Period[a]	5,753	5,817	4,876	2,744	1,863	1,159	1,251	2,209	3,621	4,217	5,596	6,608
Water Year Types[b]												
Wet (31%)	4,787	3,915	1,316	641	192	194	283	709	1,563	1,702	4,210	1,691
Above Normal (25%)	8,825	8,910	6,415	391	205	197	254	432	1,710	1,925	4,247	3,305
Below Normal (6%)	3,458	3,614	5,247	3,016	665	293	511	893	1,587	4,363	5,804	8,710
Dry (13%)	3,597	4,406	4,692	4,020	2,360	984	1,128	2,048	3,479	4,502	5,279	8,590
Critical (25%)	7,480	7,672	7,181	4,293	3,705	2,628	2,671	4,511	6,552	6,889	7,458	9,856

Alternative 6A,6B,6C (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	6,469	6,208	3,980	2,530	2,785	1,984	2,653	4,781	6,814	8,924	8,311	7,179
20%	5,199	4,548	3,625	1,636	1,594	1,187	1,948	3,995	5,482	7,907	7,652	6,759
30%	4,324	3,831	2,898	1,569	929	964	1,351	2,596	4,593	7,335	7,160	5,989
40%	4,040	3,525	2,314	1,004	735	742	1,096	2,552	4,180	6,631	6,575	5,510
50%	3,796	3,064	1,742	846	456	519	726	2,044	3,663	6,128	5,898	5,100
60%	2,637	2,547	1,536	604	386	318	526	1,123	2,728	4,497	5,028	4,626
70%	1,947	1,792	1,267	411	240	228	371	885	2,023	3,369	4,077	3,105
80%	1,248	1,165	452	225	213	209	310	571	1,462	2,931	3,781	1,803
90%	1,211	811	193	214	203	198	234	294	1,069	2,640	3,647	1,432
Long Term												
Full Simulation Period[a]	3,577	3,184	2,206	1,307	1,071	887	1,208	2,246	3,706	5,547	5,738	4,660
Water Year Types[b]												
Wet (31%)	2,498	1,599	451	311	206	202	302	718	1,555	2,299	3,284	1,498
Above Normal (25%)	5,890	5,415	2,424	253	233	219	304	465	1,451	3,160	3,877	3,105
Below Normal (6%)	2,637	2,547	2,483	1,004	394	318	537	909	1,462	4,497	5,028	4,626
Dry (13%)	2,795	2,663	2,011	1,288	1,098	653	950	2,201	3,978	6,440	6,529	5,545
Critical (25%)	4,328	4,105	3,624	2,602	2,213	2,002	2,636	4,483	6,560	8,597	7,956	7,110

Alternative 6A,6B,6C (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-2,997	-4,266	-5,371	-2,719	-2,393	-1,013	-16	-117	-392	**1,574**	**264**	-2,740
20%	-3,490	-4,495	-4,525	-3,053	-942	-874	-488	**195**	**388**	**2,218**	**790**	-2,824
30%	-4,158	-5,000	-3,761	-2,058	-1,225	-565	-285	**170**	**573**	**1,732**	**723**	-3,235
40%	-4,039	-5,050	-2,444	-2,062	-1,234	-84	-50	**180**	**407**	**1,464**	**770**	-3,200
50%	-3,905	-3,357	-2,824	-2,046	-693	-149	**24**	**96**	**526**	**1,694**	**1,063**	-3,464
60%	-821	-1,067	-2,917	-1,357	-96	**25**	**54**	**50**	**180**	**1,849**	**446**	-3,236
70%	-347	-1,006	-2,587	-309	**34**	**28**	**52**	-19	-269	**1,123**	-297	-200
80%	-52	-581	-1,258	-29	**13**	**10**	**26**	**40**	-124	**907**	-544	-377
90%	-68	-55	-12	**9**	**13**	**6**	**30**	**27**	-104	**1,142**	-524	-148
Long Term												
Full Simulation Period[a]	-2,176	-2,633	-2,669	-1,437	-792	-272	-43	**37**	**85**	**1,330**	**142**	-1,948
Water Year Types[b]												
Wet (31%)	-2,289	-2,316	-864	-329	**14**	**9**	**19**	**9**	-8	**597**	-926	-193
Above Normal (25%)	-2,935	-3,495	-3,991	-139	**27**	**22**	**50**	**33**	-259	**1,235**	-370	-200
Below Normal (6%)	-821	-1,067	-2,764	-2,012	-272	**25**	**26**	**15**	-124	**134**	-777	-4,084
Dry (13%)	-803	-1,743	-2,682	-2,732	-1,262	-331	-178	**153**	**499**	**1,938**	**1,250**	-3,045
Critical (25%)	-3,151	-3,567	-3,556	-1,691	-1,491	-626	-35	-28	**8**	**1,708**	**498**	-2,746

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-35-23. Sacramento River at Collinsville, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,466	10,474	9,351	5,249	5,178	2,997	2,669	4,898	7,206	7,349	8,047	9,919
20%	8,689	9,043	8,149	4,689	2,537	2,061	2,435	3,800	5,094	5,689	6,863	9,582
30%	8,482	8,831	6,659	3,627	2,154	1,528	1,635	2,426	4,021	5,603	6,436	9,224
40%	8,079	8,575	4,758	3,066	1,968	826	1,146	2,371	3,773	5,167	5,804	8,710
50%	7,701	6,421	4,566	2,892	1,149	668	702	1,948	3,137	4,434	4,835	8,565
60%	3,458	3,614	4,452	1,962	482	293	473	1,073	2,548	2,648	4,582	7,862
70%	2,294	2,798	3,854	720	205	200	319	903	2,292	2,245	4,374	3,305
80%	1,300	1,746	1,710	254	200	199	284	531	1,587	2,024	4,325	2,180
90%	1,279	866	204	205	190	193	204	267	1,173	1,498	4,171	1,579
Long Term												
Full Simulation Period[a]	5,753	5,817	4,876	2,744	1,863	1,159	1,251	2,209	3,621	4,217	5,596	6,608
Water Year Types[b]												
Wet (31%)	4,787	3,915	1,316	641	192	194	283	709	1,563	1,702	4,210	1,691
Above Normal (25%)	8,825	8,910	6,415	391	205	197	254	432	1,710	1,925	4,247	3,305
Below Normal (6%)	3,458	3,614	5,247	3,016	665	293	511	893	1,587	4,363	5,804	8,710
Dry (13%)	3,597	4,406	4,692	4,020	2,360	984	1,128	2,048	3,479	4,502	5,279	8,590
Critical (25%)	7,480	7,672	7,181	4,293	3,705	2,628	2,671	4,511	6,552	6,889	7,458	9,856

Alternative 7 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	8,019	6,075	4,233	2,512	2,734	1,838	2,496	4,128	4,917	7,748	8,257	9,287
20%	7,014	4,570	3,683	1,596	1,557	1,163	1,891	3,819	4,388	6,974	7,774	9,023
30%	6,752	4,484	2,578	1,535	924	929	1,288	2,625	3,975	6,511	7,460	8,870
40%	6,571	4,036	2,197	1,060	700	730	1,086	2,505	3,853	6,233	6,315	8,711
50%	5,668	3,274	1,708	902	479	479	680	2,016	3,153	5,364	6,066	8,243
60%	2,760	2,601	1,619	656	349	316	503	1,110	2,438	4,125	5,797	8,132
70%	1,776	1,695	1,288	403	230	222	370	877	1,650	3,276	5,730	3,319
80%	1,288	1,241	475	217	203	207	308	575	1,277	3,062	5,672	2,351
90%	1,148	834	190	208	198	197	230	282	1,012	2,821	5,516	1,846
Long Term												
Full Simulation Period[a]	4,694	3,339	2,219	1,299	1,049	851	1,166	2,057	3,006	5,084	6,587	6,427
Water Year Types[b]												
Wet (31%)	3,528	1,673	470	321	201	202	302	719	1,344	2,615	5,791	1,961
Above Normal (25%)	7,952	5,229	2,137	245	221	212	302	456	1,177	2,977	5,704	3,319
Below Normal (6%)	2,760	2,743	2,501	1,060	432	316	503	874	1,515	4,730	6,315	8,213
Dry (13%)	2,977	2,740	2,001	1,296	1,079	622	911	2,180	3,650	5,683	6,098	8,997
Critical (25%)	6,083	4,515	3,769	2,555	2,157	1,916	2,540	3,907	4,850	7,493	8,021	8,829

Alternative 7 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,447	-4,398	-5,118	-2,737	-2,444	-1,159	-173	-770	-2,290	**398**	**210**	-632
20%	-1,675	-4,473	-4,466	-3,093	-979	-898	-544	**20**	-706	**1,285**	**911**	-559
30%	-1,730	-4,347	-4,081	-2,092	-1,230	-599	-347	**199**	-46	**908**	**1,024**	-354
40%	-1,508	-4,539	-2,562	-2,006	-1,269	-96	-61	**133**	**80**	**1,066**	**511**	**1**
50%	-2,032	-3,147	-2,858	-1,989	-670	-189	-22	**68**	**16**	**930**	**1,232**	-322
60%	-698	-1,013	-2,834	-1,306	-133	**23**	**30**	**38**	-110	**1,477**	**1,215**	**271**
70%	-518	-1,103	-2,565	-318	**25**	**22**	**51**	-26	-642	**1,031**	**1,357**	**14**
80%	-12	-505	-1,235	-37	**3**	**8**	**24**	**43**	-310	**1,038**	**1,348**	**171**
90%	-131	-32	-14	**3**	**8**	**4**	**26**	**15**	-161	**1,323**	**1,345**	**266**
Long Term												
Full Simulation Period[a]	-1,059	-2,478	-2,657	-1,445	-814	-307	-85	-152	-615	**867**	**990**	-181
Water Year Types[b]												
Wet (31%)	-1,259	-2,242	-845	-320	**10**	**8**	**19**	**9**	-219	**913**	**1,582**	**270**
Above Normal (25%)	-873	-3,681	-4,278	-146	**16**	**15**	**48**	**25**	-533	**1,052**	**1,457**	**14**
Below Normal (6%)	-698	-871	-2,746	-1,955	-234	**23**	-7	-20	-72	**366**	**511**	-497
Dry (13%)	-620	-1,666	-2,691	-2,724	-1,281	-362	-217	**132**	**171**	**1,181**	**820**	**408**
Critical (25%)	-1,397	-3,157	-3,412	-1,738	-1,547	-712	-131	-605	-1,702	**604**	**562**	-1,027

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-35-24. Sacramento River at Collinsville, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,466	10,474	9,351	5,249	5,178	2,997	2,669	4,898	7,206	7,349	8,047	9,919
20%	8,689	9,043	8,149	4,689	2,537	2,061	2,435	3,800	5,094	5,689	6,863	9,582
30%	8,482	8,831	6,659	3,627	2,154	1,528	1,635	2,426	4,021	5,603	6,436	9,224
40%	8,079	8,575	4,758	3,066	1,968	826	1,146	2,371	3,773	5,167	5,804	8,710
50%	7,701	6,421	4,566	2,892	1,149	668	702	1,948	3,137	4,434	4,835	8,565
60%	3,458	3,614	4,452	1,962	482	293	473	1,073	2,548	2,648	4,582	7,862
70%	2,294	2,798	3,854	720	205	200	319	903	2,292	2,245	4,374	3,305
80%	1,300	1,746	1,710	254	200	199	284	531	1,587	2,024	4,325	2,180
90%	1,279	866	204	205	190	193	204	267	1,173	1,498	4,171	1,579
Long Term												
Full Simulation Period[a]	5,753	5,817	4,876	2,744	1,863	1,159	1,251	2,209	3,621	4,217	5,596	6,608
Water Year Types[b]												
Wet (31%)	4,787	3,915	1,316	641	192	194	283	709	1,563	1,702	4,210	1,691
Above Normal (25%)	8,825	8,910	6,415	391	205	197	254	432	1,710	1,925	4,247	3,305
Below Normal (6%)	3,458	3,614	5,247	3,016	665	293	511	893	1,587	4,363	5,804	8,710
Dry (13%)	3,597	4,406	4,692	4,020	2,360	984	1,128	2,048	3,479	4,502	5,279	8,590
Critical (25%)	7,480	7,672	7,181	4,293	3,705	2,628	2,671	4,511	6,552	6,889	7,458	9,856

Alternative 8 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	8,771	6,771	4,197	2,510	2,445	1,193	1,759	3,302	4,548	7,637	8,181	9,771
20%	8,583	5,853	4,044	1,649	1,510	909	1,513	2,604	3,799	6,684	8,087	9,332
30%	7,148	4,340	2,815	1,373	710	714	761	2,347	3,651	6,527	7,773	9,052
40%	6,583	4,022	2,263	977	563	513	570	1,632	3,433	6,505	7,381	8,860
50%	6,373	3,306	1,730	775	402	342	495	1,353	2,968	5,731	7,074	8,735
60%	2,571	2,679	1,627	513	300	290	395	756	2,207	4,939	6,990	8,607
70%	1,828	2,100	1,335	386	226	223	302	587	1,545	3,231	6,055	3,311
80%	1,295	1,210	461	218	206	207	276	474	1,210	2,944	5,785	2,145
90%	1,201	846	190	207	196	197	223	254	1,005	2,828	5,572	1,856
Long Term												
Full Simulation Period[a]	4,947	3,564	2,294	1,263	966	697	912	1,638	2,817	5,155	6,982	6,632
Water Year Types[b]												
Wet (31%)	3,890	1,836	477	285	201	202	272	547	1,250	2,548	5,697	1,906
Above Normal (25%)	7,561	5,287	2,382	244	218	211	268	385	1,147	3,009	5,797	3,311
Below Normal (6%)	2,571	2,679	2,493	977	352	290	395	484	1,424	4,939	7,109	9,332
Dry (13%)	3,434	3,162	2,099	1,190	837	441	570	1,780	3,574	6,164	7,304	9,531
Critical (25%)	6,433	4,756	3,828	2,567	2,105	1,575	2,057	3,129	4,411	7,335	8,200	8,883

Alternative 8 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-695	-3,702	-5,154	-2,739	-2,733	-1,805	-910	-1,596	-2,658	**287**	**134**	-148
20%	-106	-3,189	-4,105	-3,040	-1,027	-1,152	-922	-1,196	-1,295	**995**	**1,224**	-250
30%	-1,333	-4,491	-3,844	-2,253	-1,445	-814	-875	-79	-370	**924**	**1,337**	-172
40%	-1,496	-4,553	-2,496	-2,089	-1,405	-313	-576	-739	-340	**1,338**	**1,577**	**151**
50%	-1,327	-3,114	-2,836	-2,117	-747	-326	-207	-595	-169	**1,297**	**2,239**	**171**
60%	-887	-935	-2,826	-1,449	-183	-3	-78	-317	-341	**2,291**	**2,408**	**746**
70%	-465	-698	-2,519	-335	**21**	**23**	-18	-316	-747	**986**	**1,681**	**6**
80%	-5	-536	-1,249	-36	**6**	**7**	-8	-57	-377	**920**	**1,460**	-35
90%	-78	-21	-14	**2**	**6**	**4**	**19**	-13	-168	**1,330**	**1,401**	**277**
Long Term												
Full Simulation Period[a]	-806	-2,253	-2,582	-1,482	-896	-461	-339	-571	-804	**938**	**1,385**	**25**
Water Year Types[b]												
Wet (31%)	-897	-2,079	-839	-356	**9**	**8**	-11	-162	-313	**846**	**1,487**	**215**
Above Normal (25%)	-1,264	-3,623	-4,033	-147	**13**	**14**	**14**	-47	-564	**1,083**	**1,550**	**6**
Below Normal (6%)	-887	-935	-2,754	-2,038	-313	-3	-116	-409	-162	**576**	**1,304**	**622**
Dry (13%)	-164	-1,244	-2,593	-2,830	-1,523	-543	-558	-268	**95**	**1,662**	**2,026**	**941**
Critical (25%)	-1,046	-2,916	-3,353	-1,726	-1,600	-1,053	-613	-1,382	-2,141	**446**	**742**	-973

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-35-25. Sacramento River at Collinsville, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,466	10,474	9,351	5,249	5,178	2,997	2,669	4,898	7,206	7,349	8,047	9,919
20%	8,689	9,043	8,149	4,689	2,537	2,061	2,435	3,800	5,094	5,689	6,863	9,582
30%	8,482	8,831	6,659	3,627	2,154	1,528	1,635	2,426	4,021	5,603	6,436	9,224
40%	8,079	8,575	4,758	3,066	1,968	826	1,146	2,371	3,773	5,167	5,804	8,710
50%	7,701	6,421	4,566	2,892	1,149	668	702	1,948	3,137	4,434	4,835	8,565
60%	3,458	3,614	4,452	1,962	482	293	473	1,073	2,548	2,648	4,582	7,862
70%	2,294	2,798	3,854	720	205	200	319	903	2,292	2,245	4,374	3,305
80%	1,300	1,746	1,710	254	200	199	284	531	1,587	2,024	4,325	2,180
90%	1,279	866	204	205	190	193	204	267	1,173	1,498	4,171	1,579
Long Term												
Full Simulation Period[a]	5,753	5,817	4,876	2,744	1,863	1,159	1,251	2,209	3,621	4,217	5,596	6,608
Water Year Types[b]												
Wet (31%)	4,787	3,915	1,316	641	192	194	283	709	1,563	1,702	4,210	1,691
Above Normal (25%)	8,825	8,910	6,415	391	205	197	254	432	1,710	1,925	4,247	3,305
Below Normal (6%)	3,458	3,614	5,247	3,016	665	293	511	893	1,587	4,363	5,804	8,710
Dry (13%)	3,597	4,406	4,692	4,020	2,360	984	1,128	2,048	3,479	4,502	5,279	8,590
Critical (25%)	7,480	7,672	7,181	4,293	3,705	2,628	2,671	4,511	6,552	6,889	7,458	9,856

Alternative 9 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	10,781	11,396	10,299	7,267	5,365	2,771	2,756	5,151	7,191	7,891	7,443	9,426
20%	10,250	10,275	9,334	4,625	4,077	2,195	1,873	4,095	5,508	7,390	7,198	9,260
30%	9,819	9,905	7,550	3,805	1,951	1,578	1,572	1,982	3,837	6,612	6,412	8,883
40%	9,435	9,826	5,762	3,247	1,665	988	1,208	1,740	3,329	6,332	6,372	8,825
50%	8,273	7,415	4,866	2,531	982	624	931	1,676	3,124	5,449	6,039	8,397
60%	3,305	3,389	4,543	2,327	453	275	728	1,490	2,802	4,819	5,775	7,985
70%	2,137	2,619	3,849	660	214	206	434	1,335	2,023	3,864	5,496	3,399
80%	1,338	1,749	1,677	262	199	196	340	828	1,795	2,549	5,320	2,137
90%	1,280	880	192	210	196	192	211	298	1,384	2,406	5,170	1,695
Long Term												
Full Simulation Period[a]	6,327	6,429	5,429	3,145	2,009	1,195	1,317	2,175	3,548	5,282	6,169	6,468
Water Year Types[b]												
Wet (31%)	4,808	4,028	1,581	734	195	192	358	982	1,540	2,550	5,359	1,772
Above Normal (25%)	10,487	10,720	7,550	338	212	203	301	607	1,827	2,981	5,226	3,399
Below Normal (6%)	3,305	3,389	5,147	2,646	499	275	740	1,415	1,795	4,819	6,451	9,260
Dry (13%)	4,059	4,908	5,439	4,007	2,193	922	1,063	1,631	3,301	6,031	6,206	8,790
Critical (25%)	8,298	8,459	7,708	5,606	4,332	2,798	2,808	4,344	6,391	7,881	7,109	9,038

Alternative 9 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**1,315**	**922**	**948**	**2,018**	**187**	-227	**87**	**252**	-15	**542**	-604	-493
20%	**1,561**	**1,232**	**1,185**	-64	**1,540**	**134**	-562	**295**	**413**	**1,702**	**335**	-323
30%	**1,338**	**1,074**	**891**	**178**	-203	**50**	-64	-444	-184	**1,009**	-24	-341
40%	**1,357**	**1,251**	**1,004**	**181**	-304	**163**	**61**	-631	-444	**1,165**	**567**	**116**
50%	**572**	**994**	**299**	-360	-167	-44	**229**	-272	-13	**1,015**	**1,204**	-168
60%	-153	-225	**91**	**365**	-29	-18	**255**	**418**	**254**	**2,171**	**1,194**	**123**
70%	-157	-179	-5	-60	**8**	**6**	**115**	**432**	-269	**1,618**	**1,123**	**95**
80%	**38**	**3**	-33	**8**	-1	-4	**56**	**297**	**208**	**525**	**995**	-42
90%	**1**	**14**	-12	**5**	**6**	-1	**6**	**32**	**211**	**907**	**999**	**116**
Long Term												
Full Simulation Period[a]	**574**	**612**	**554**	**400**	**146**	**37**	**66**	-34	-73	**1,065**	**573**	-139
Water Year Types[b]												
Wet (31%)	**20**	**113**	**266**	**93**	**4**	-1	**75**	**272**	-23	**848**	**1,149**	**81**
Above Normal (25%)	**1,662**	**1,810**	**1,135**	-53	**7**	**6**	**47**	**175**	**117**	**1,055**	**979**	**95**
Below Normal (6%)	-153	-225	-101	-369	-166	-18	**230**	**522**	**208**	**456**	**646**	**550**
Dry (13%)	**462**	**502**	**747**	-13	-167	-62	-65	-417	-178	**1,528**	**927**	**200**
Critical (25%)	**818**	**787**	**527**	**1,312**	**628**	**170**	**137**	-168	-161	**993**	-349	-818

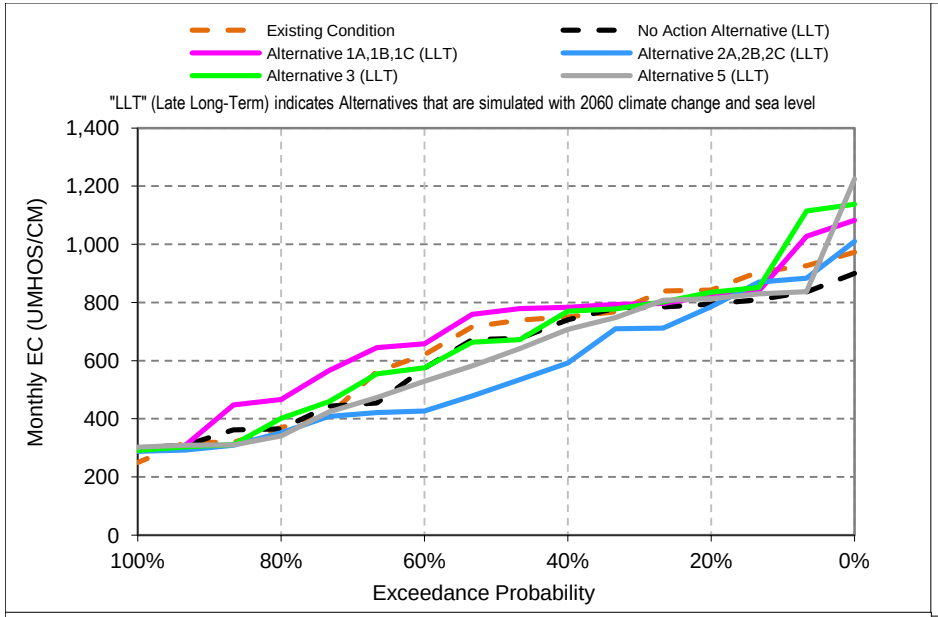
a Based on the 16-year simulation period

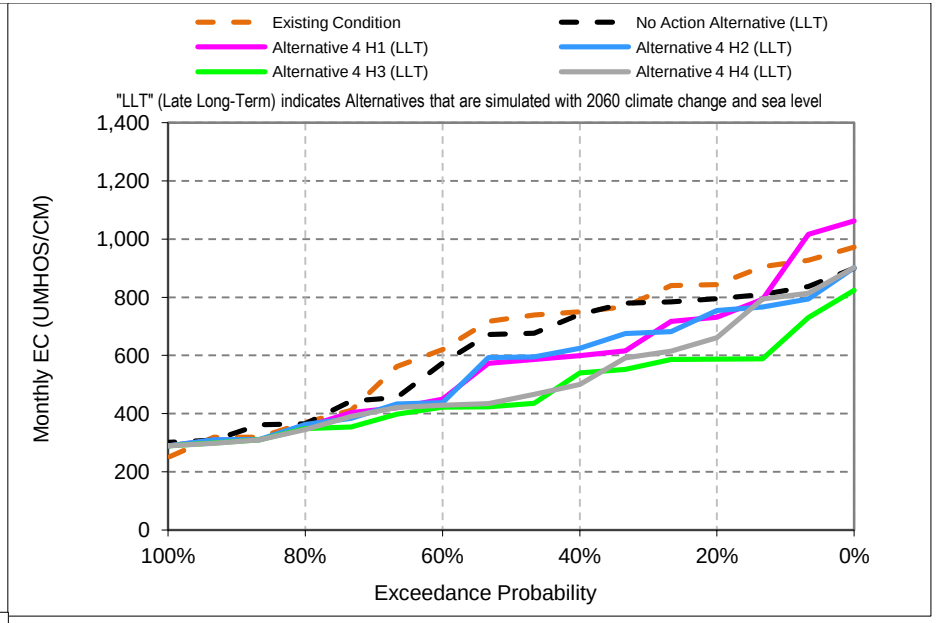
b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

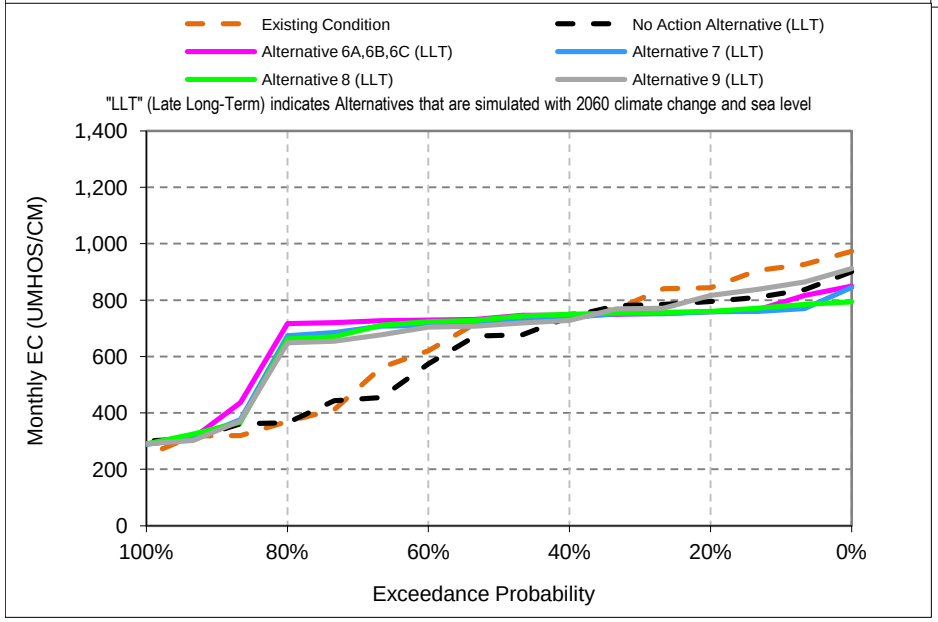
Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

C.36. Old River at Rock Slough Salinity



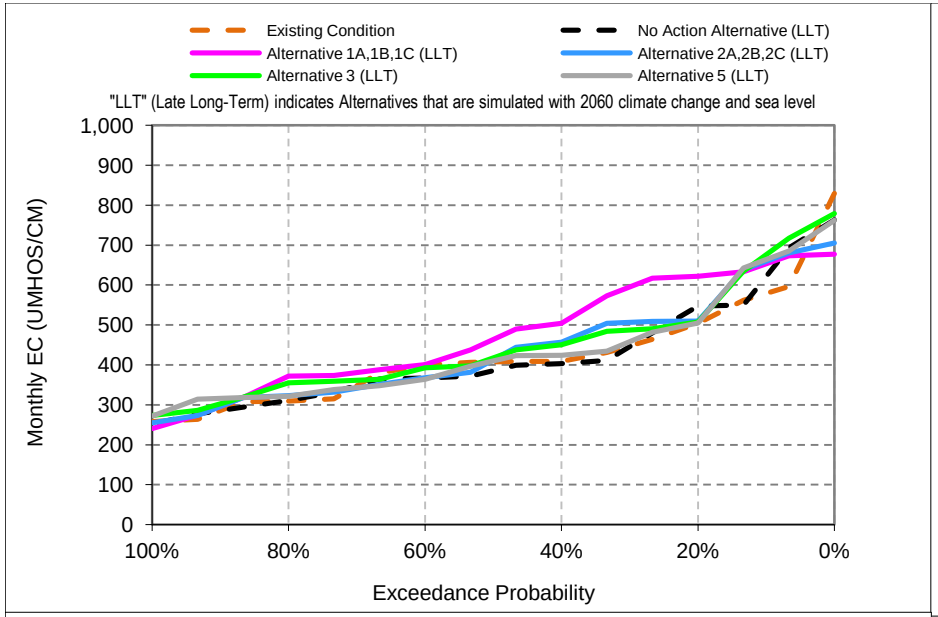


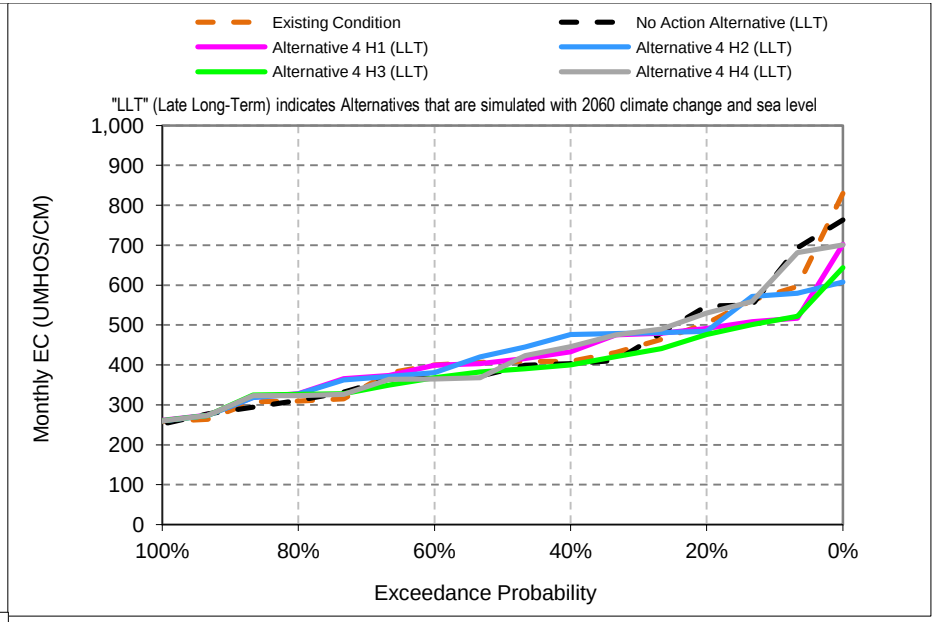


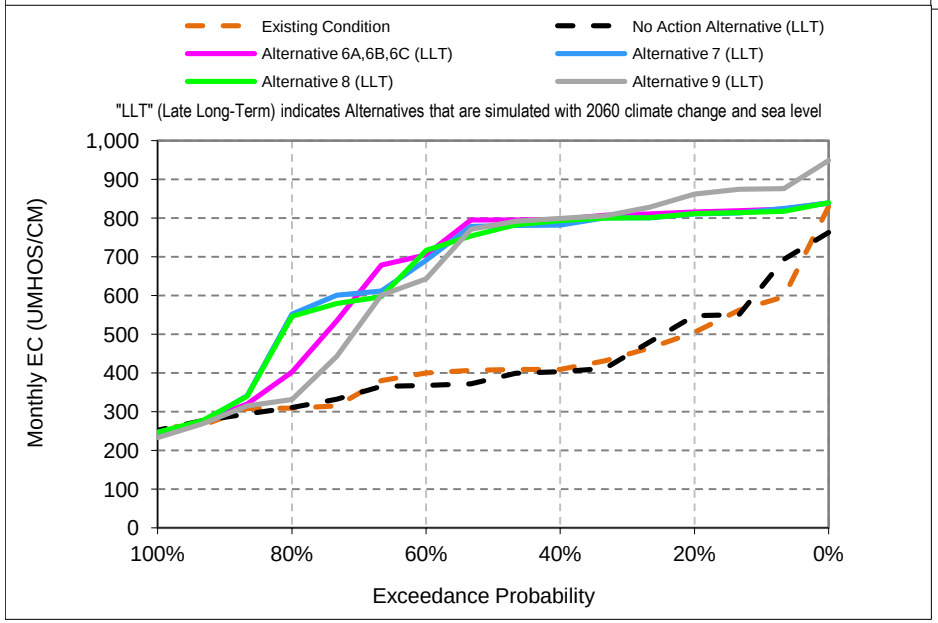
Alternative 4 Scenario Definitions:

H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

Figure C-36-1. Old River at Rock Slough, January EC



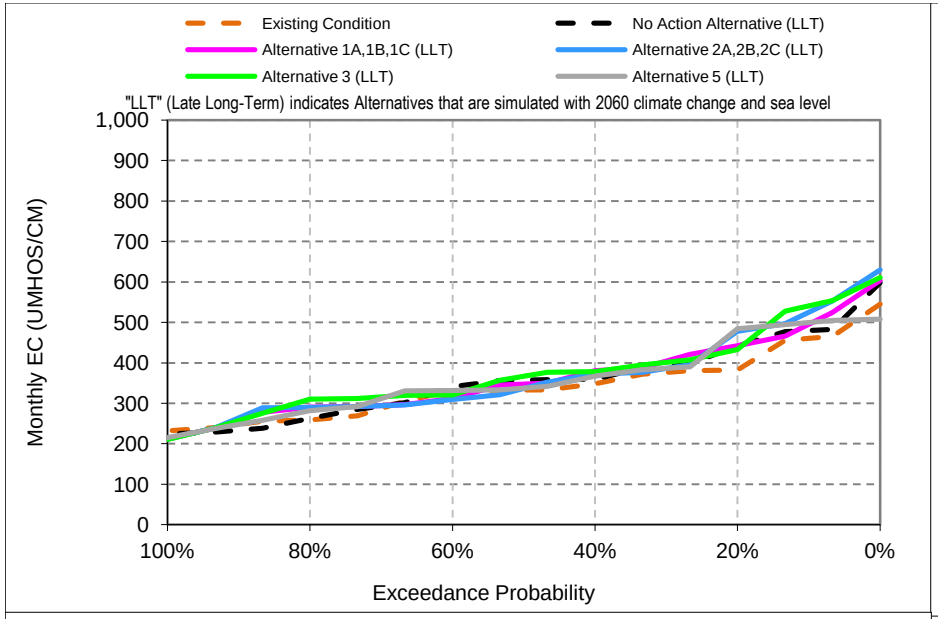


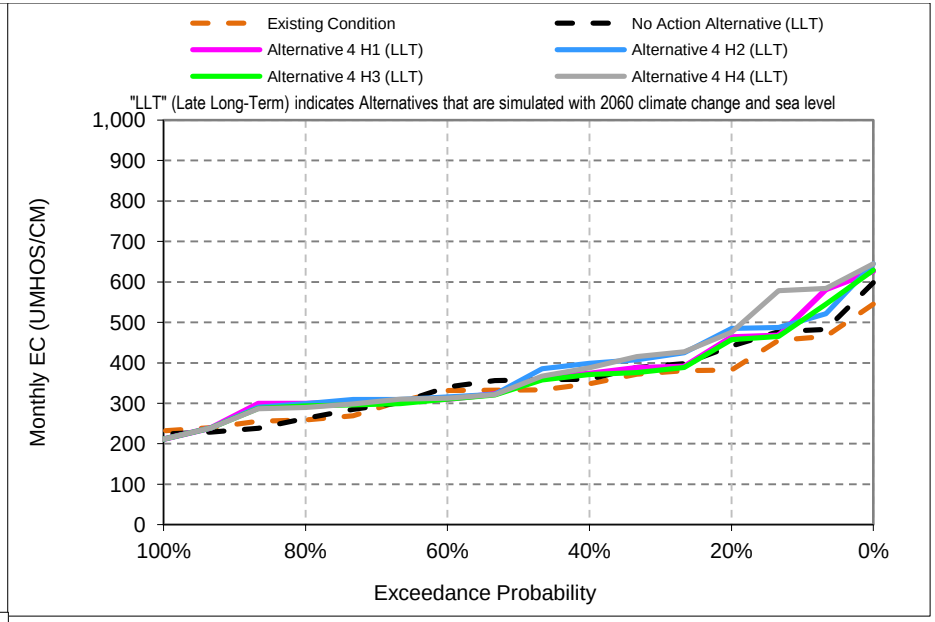


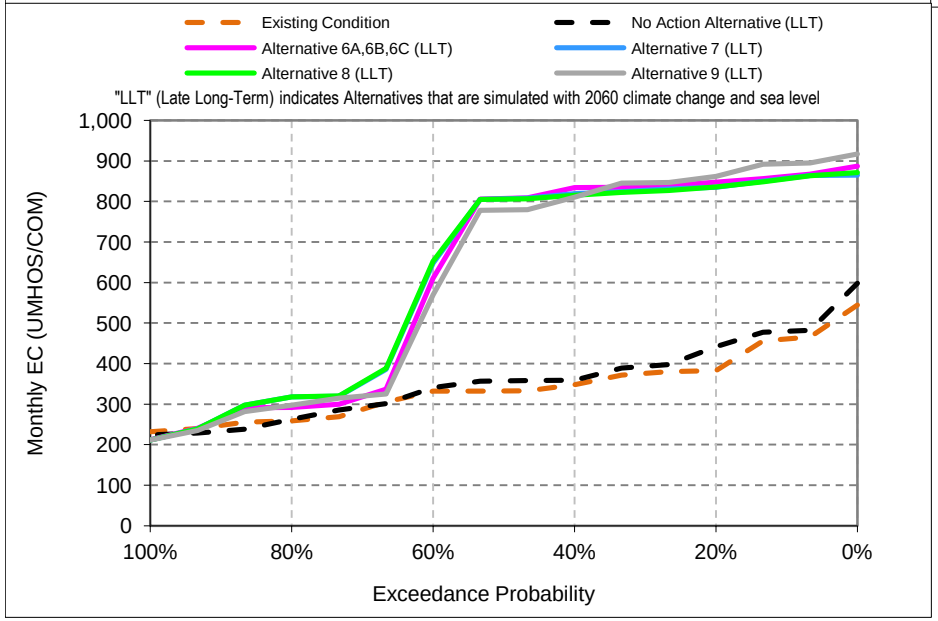
Alternative 4 Scenario Definitions:

H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

Figure C-36-2. Old River at Rock Slough, February EC



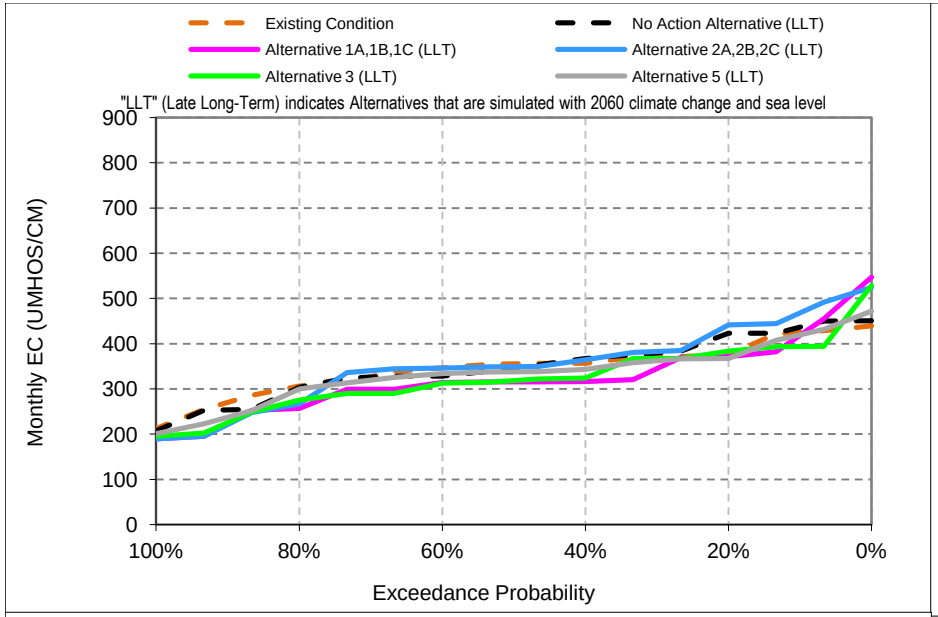


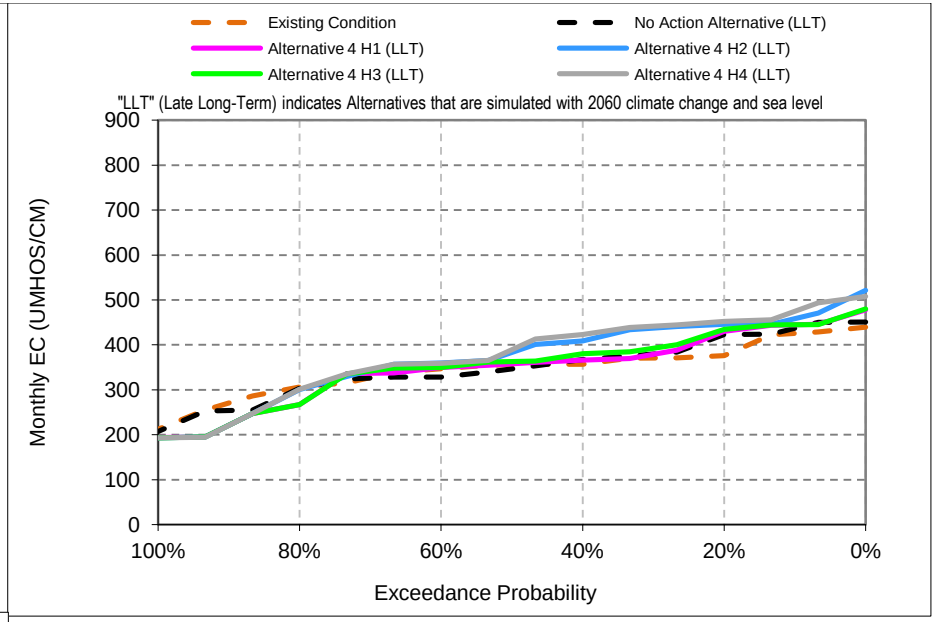


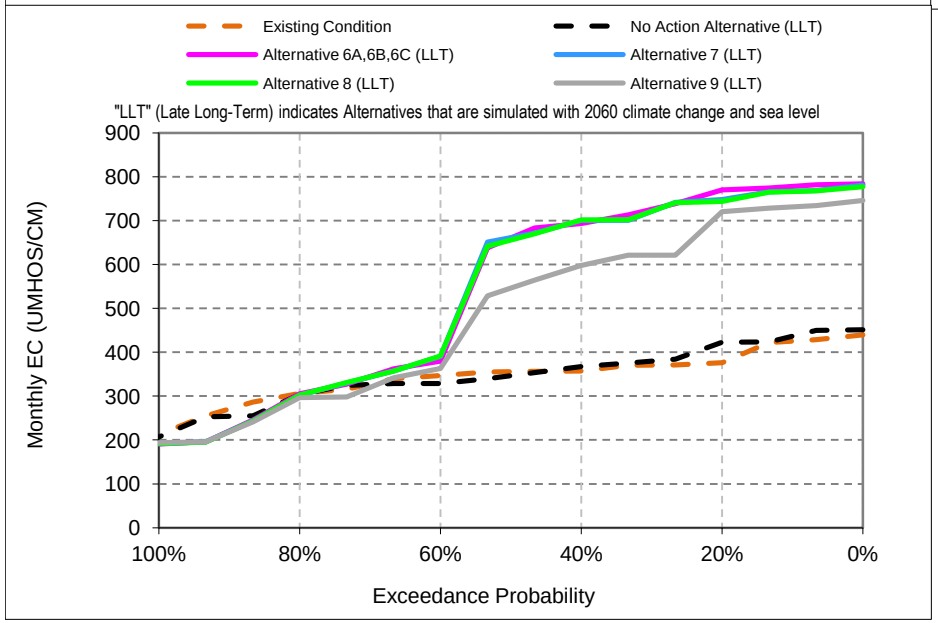
Alternative 4 Scenario Definitions:

H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

Figure C-36-3. Old River at Rock Slough, March EC



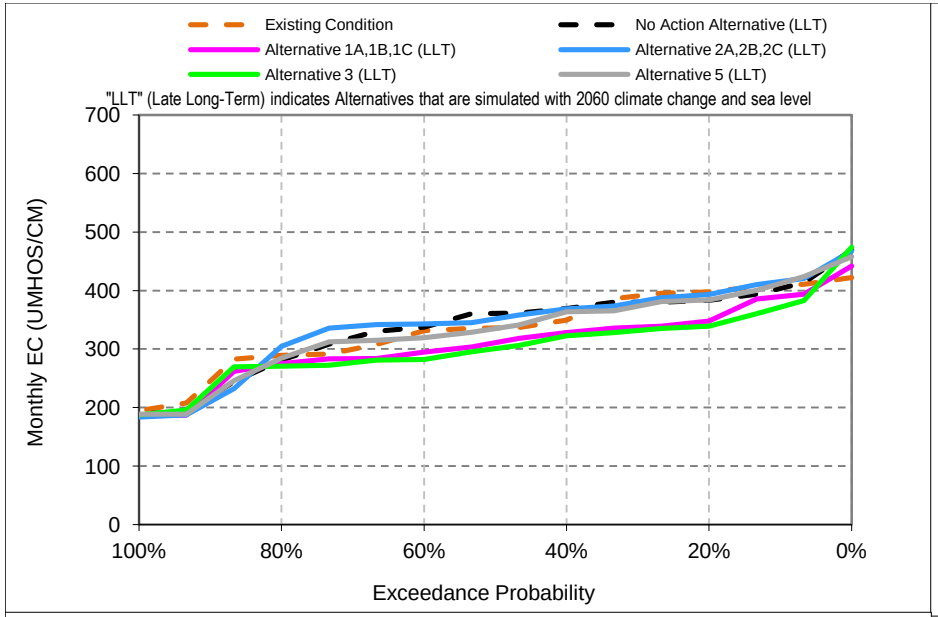


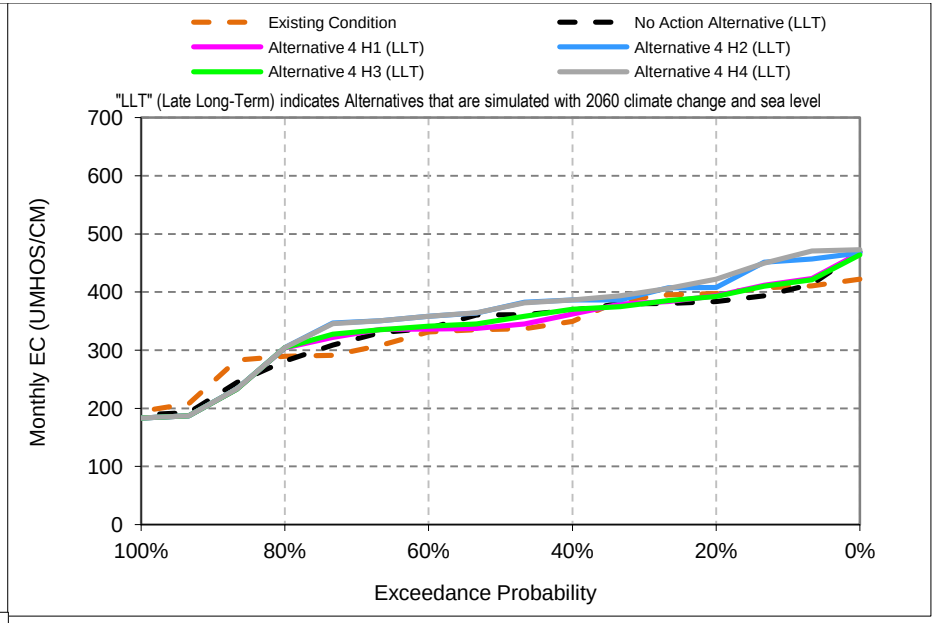


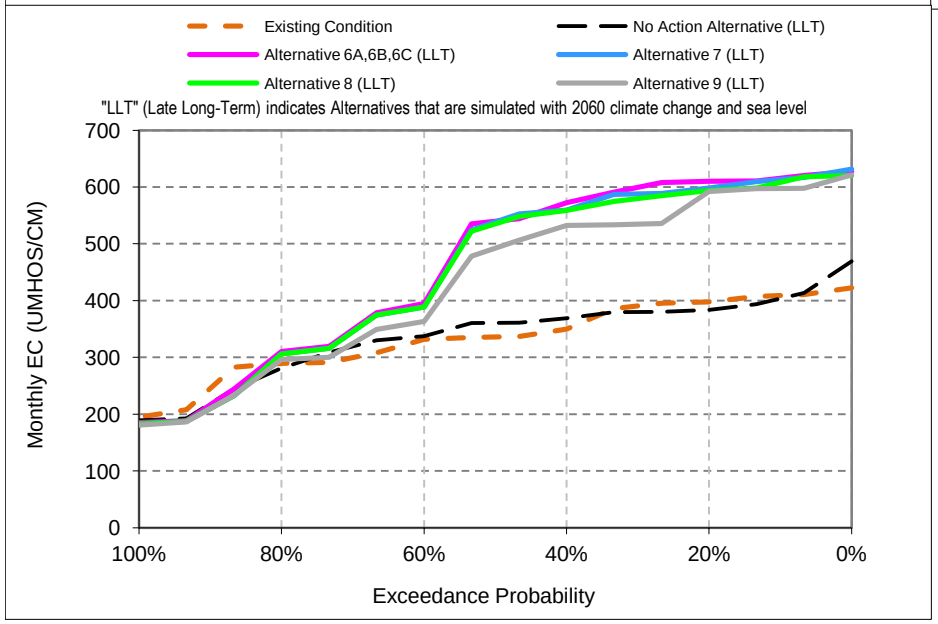
Alternative 4 Scenario Definitions:

H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

Figure C-36-4. Old River at Rock Slough, April EC



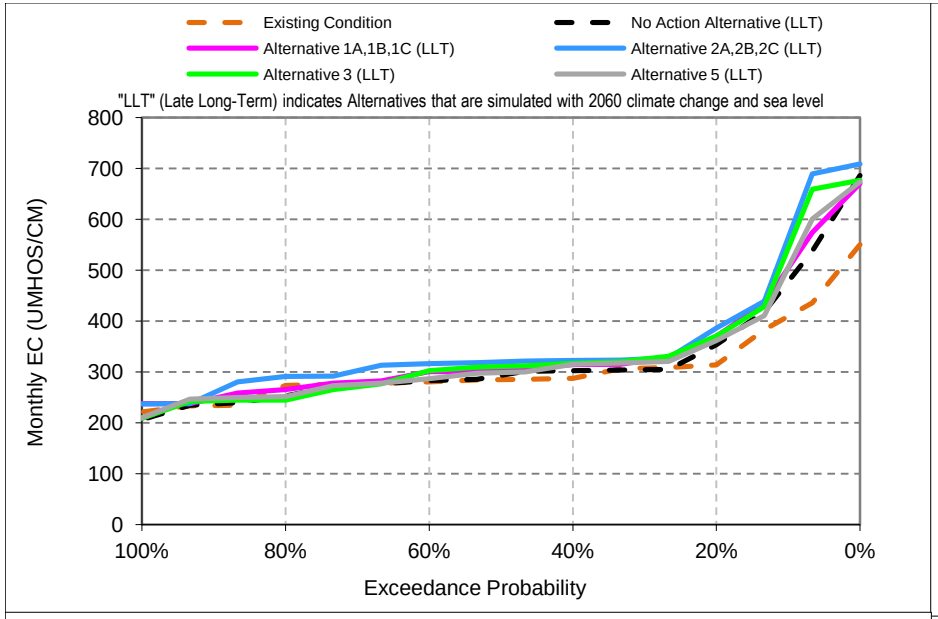


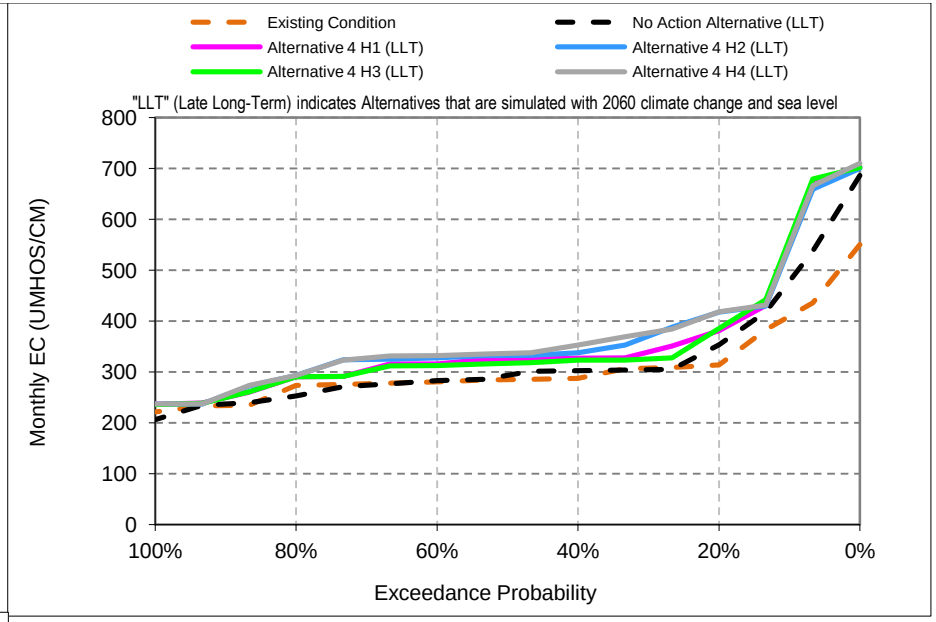


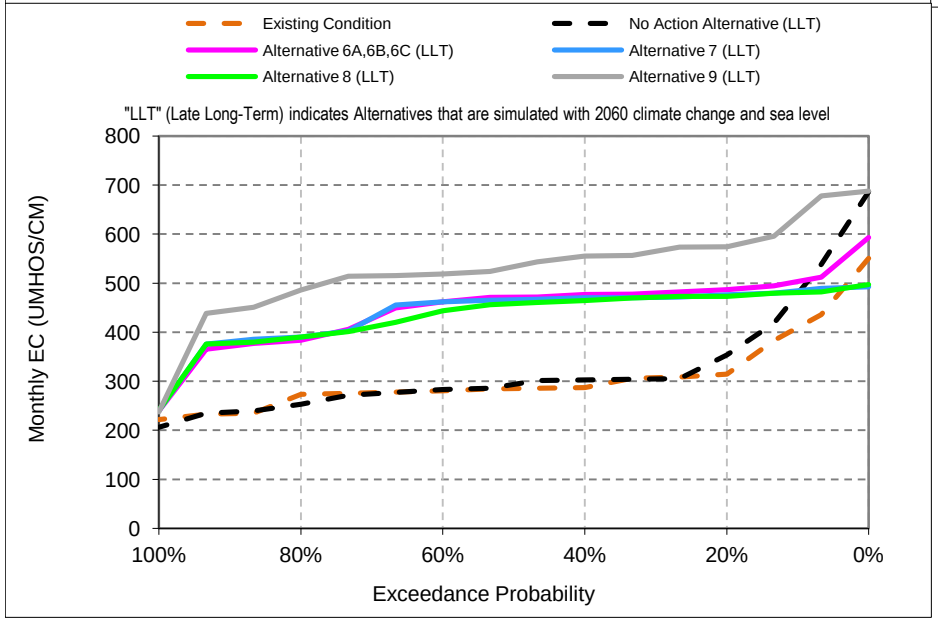
Alternative 4 Scenario Definitions:

H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

Figure C-36-5. Old River at Rock Slough, May EC



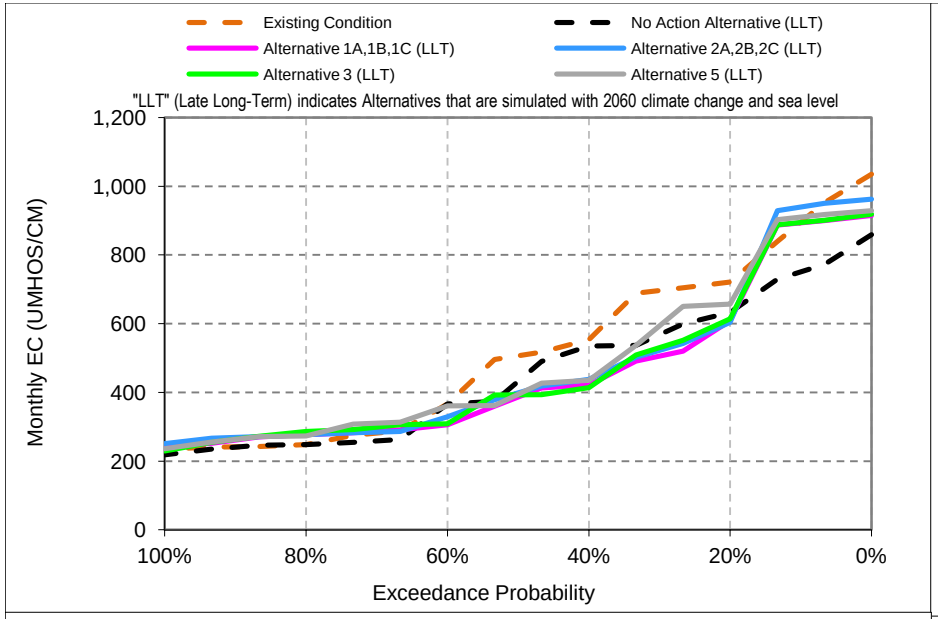


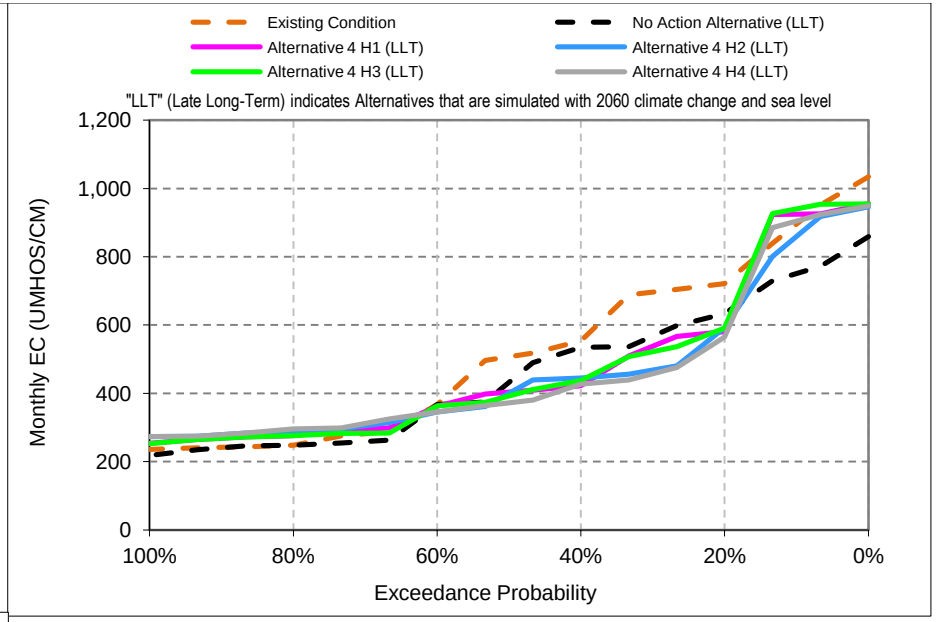


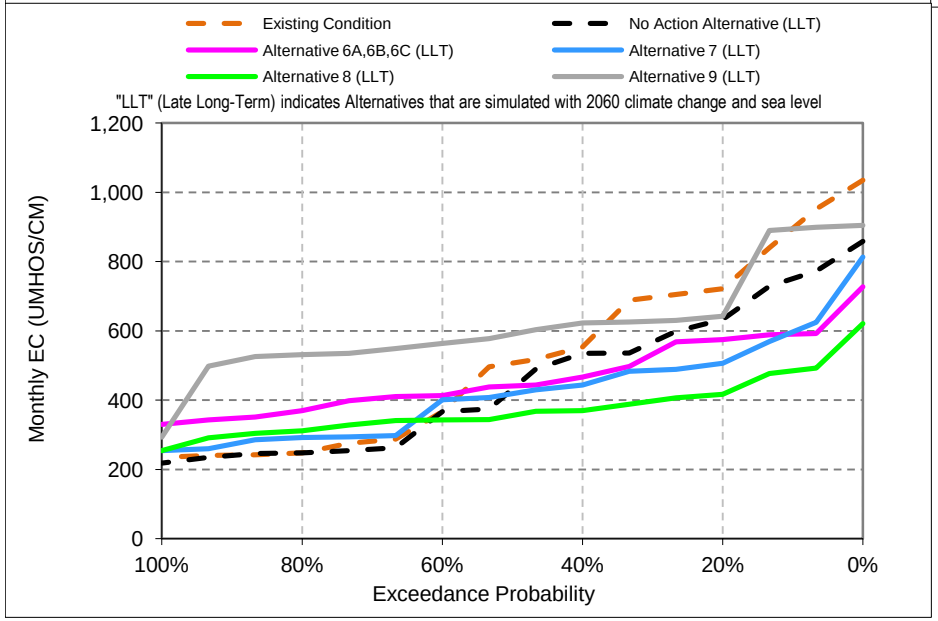
Alternative 4 Scenario Definitions:

H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

Figure C-36-6. Old River at Rock Slough, June EC



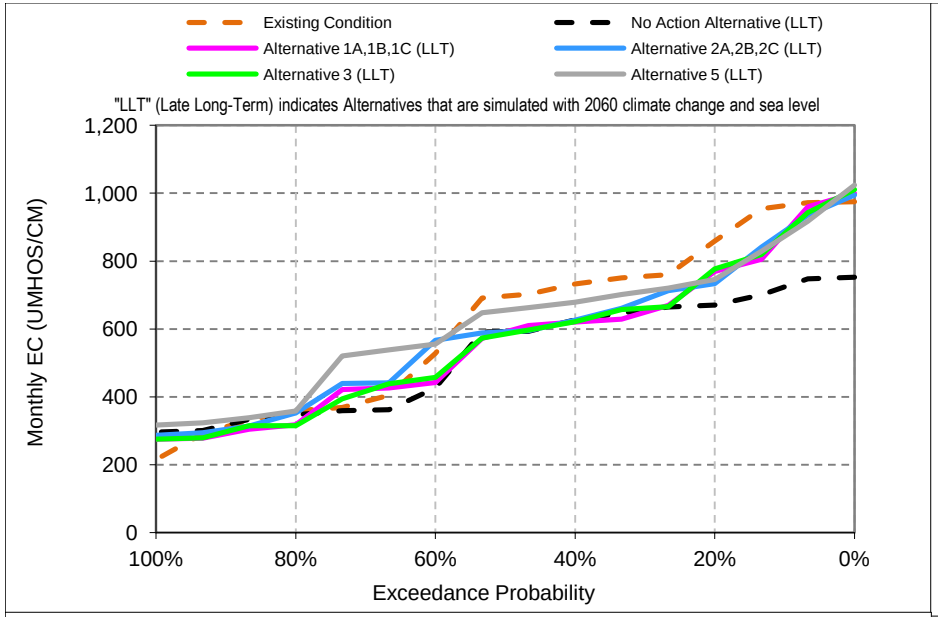


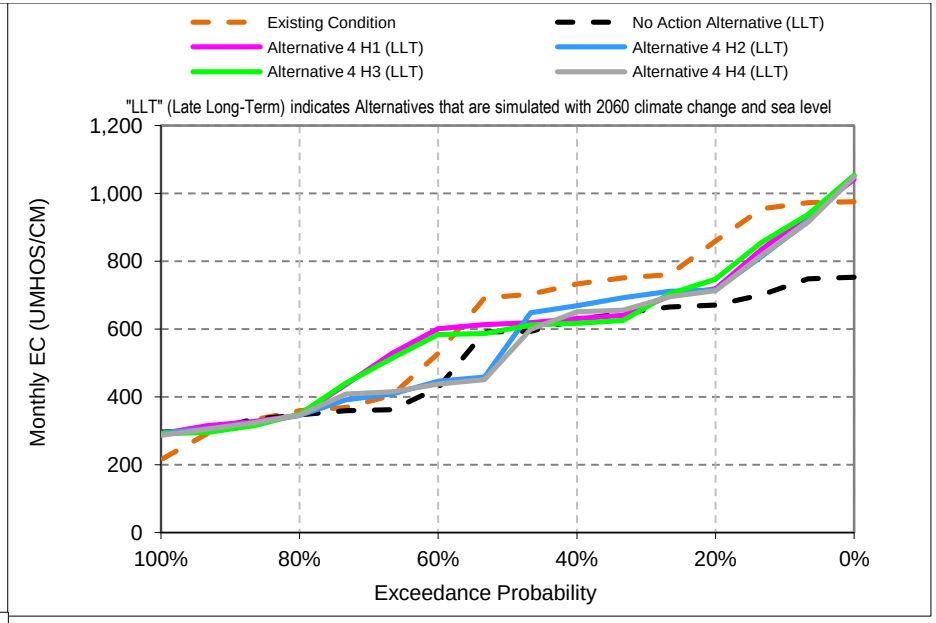


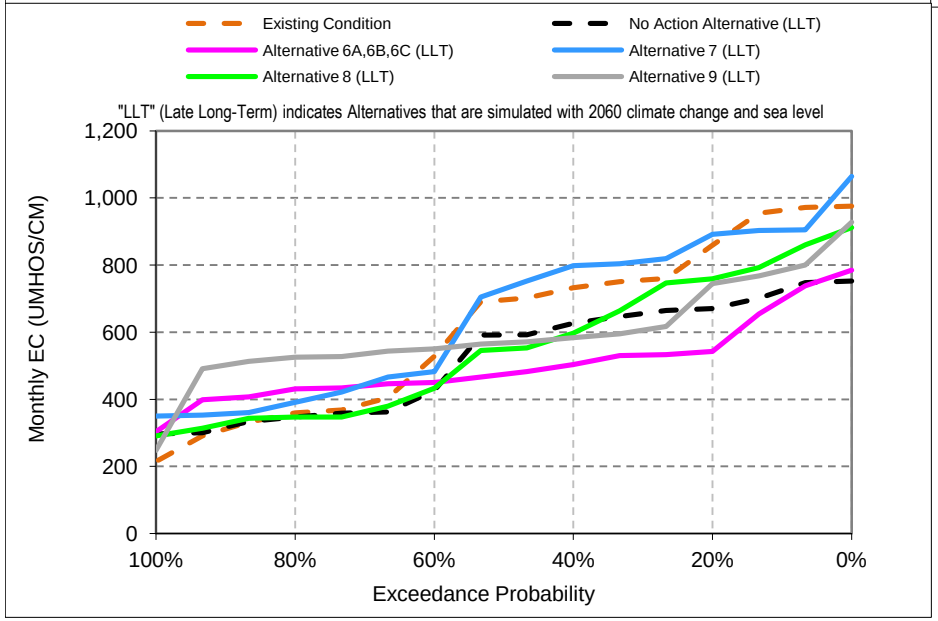
Alternative 4 Scenario Definitions:

H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

Figure C-36-7. Old River at Rock Slough, July EC



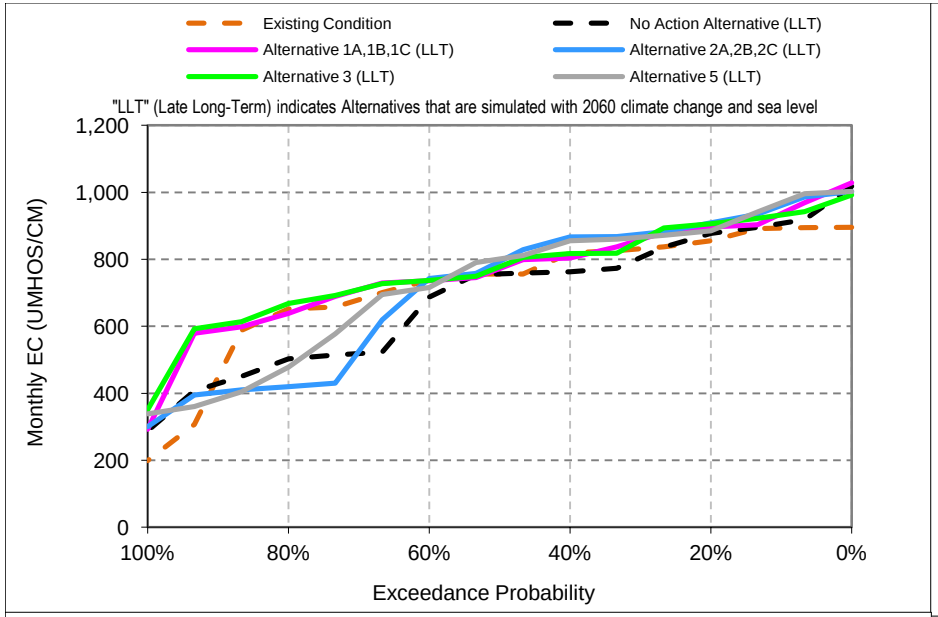


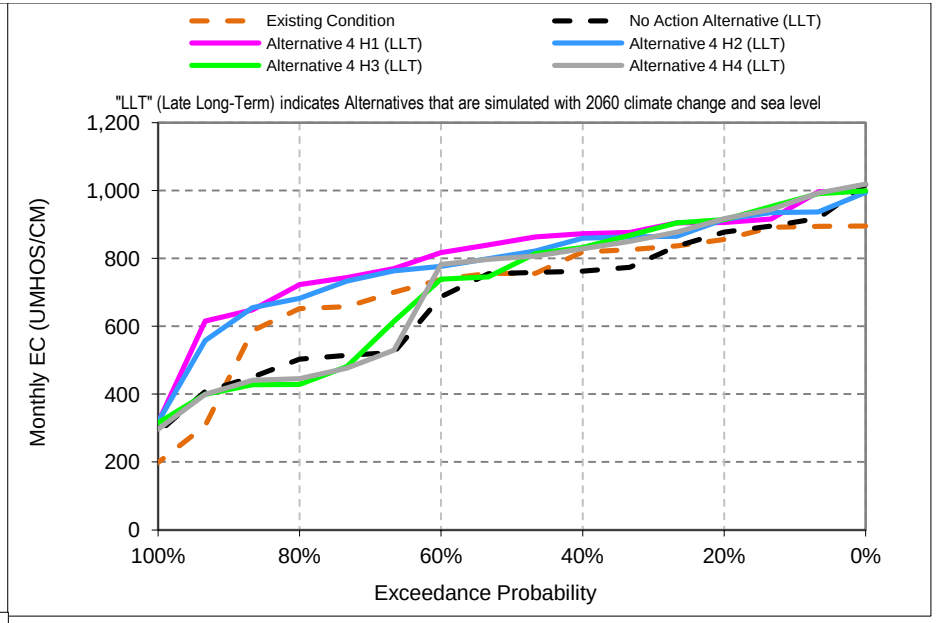


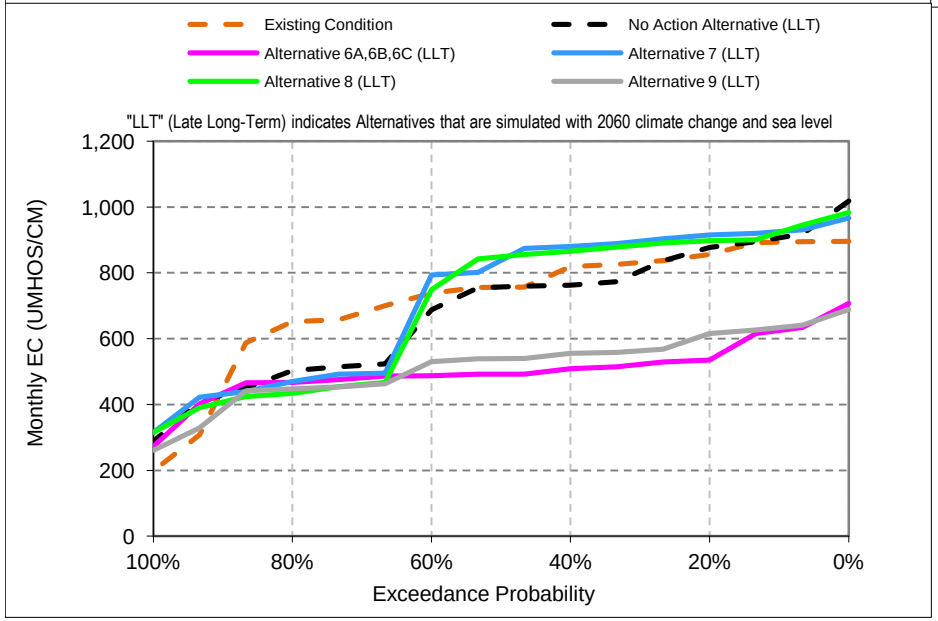
Alternative 4 Scenario Definitions:

H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

Figure C-36-8. Old River at Rock Slough, August EC



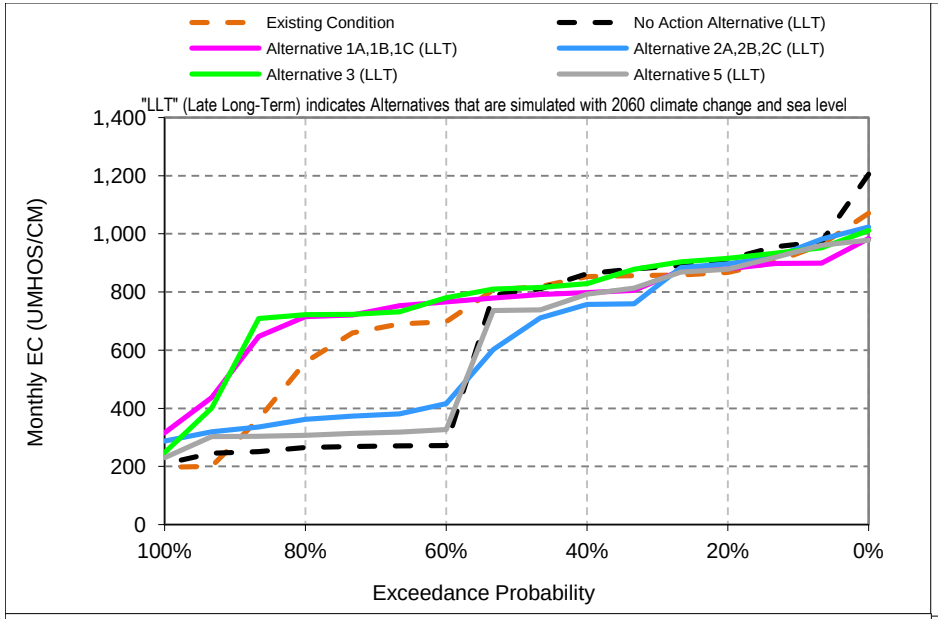


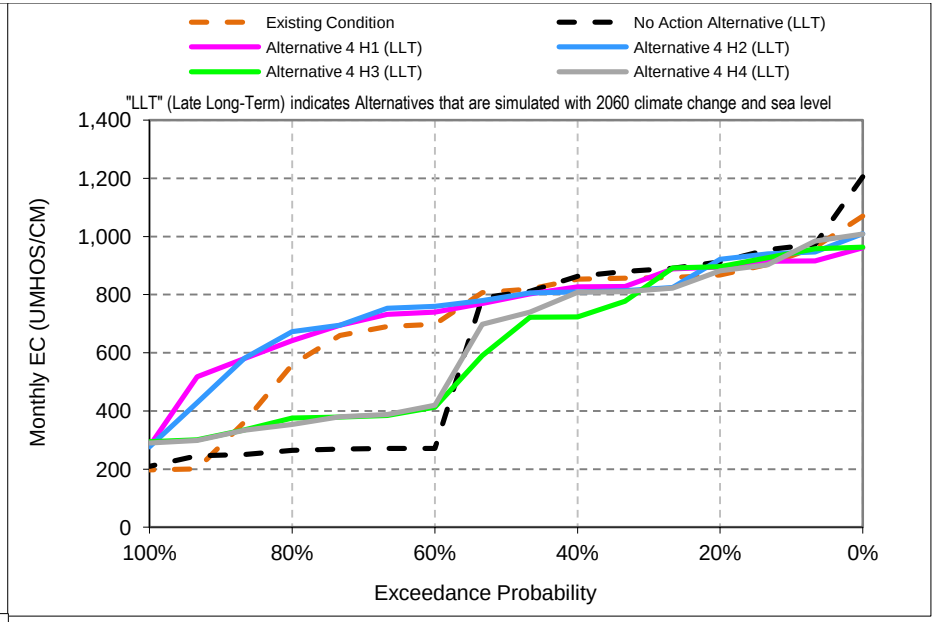


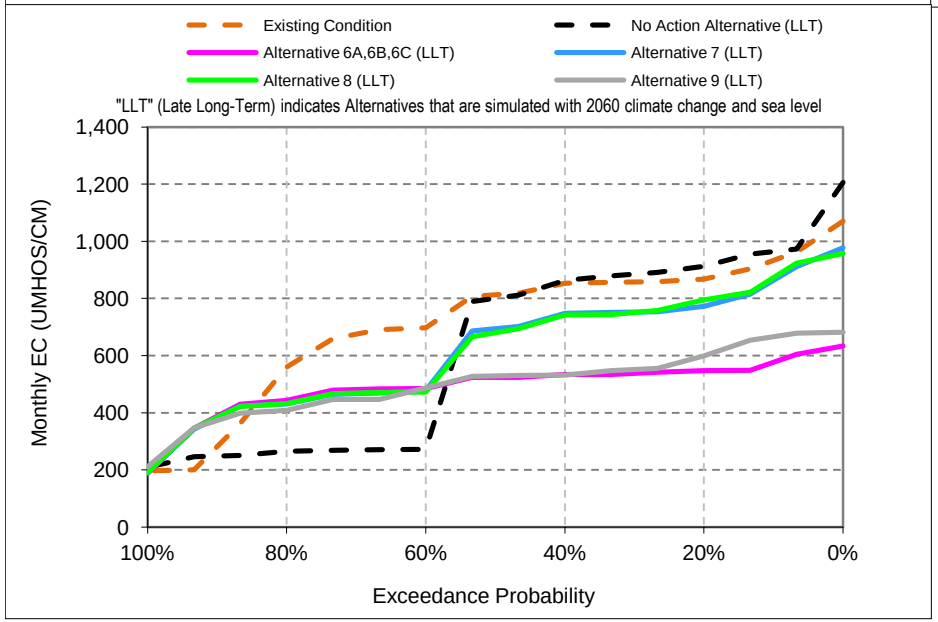
Alternative 4 Scenario Definitions:

H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

Figure C-36-9. Old River at Rock Slough, September EC



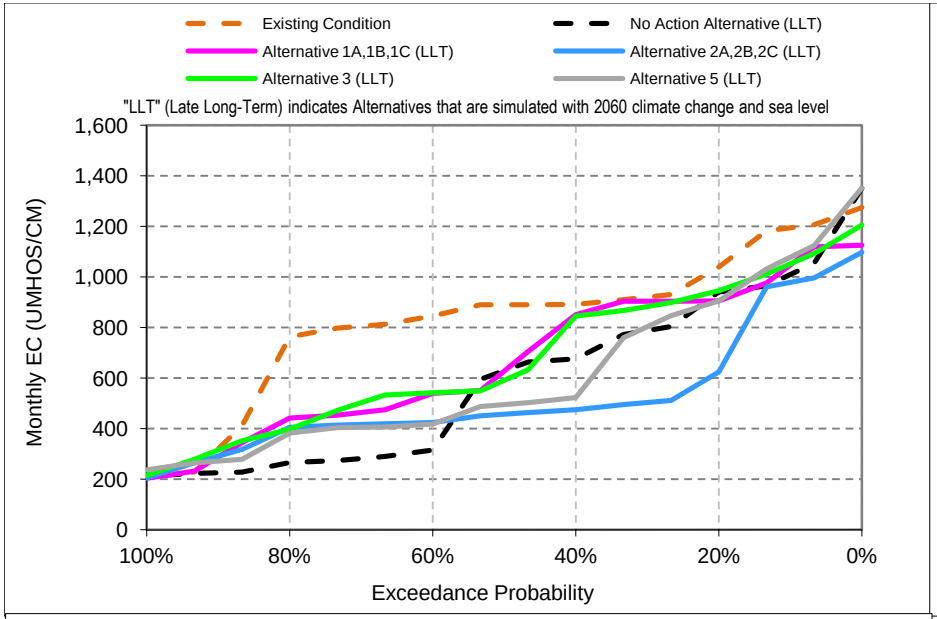


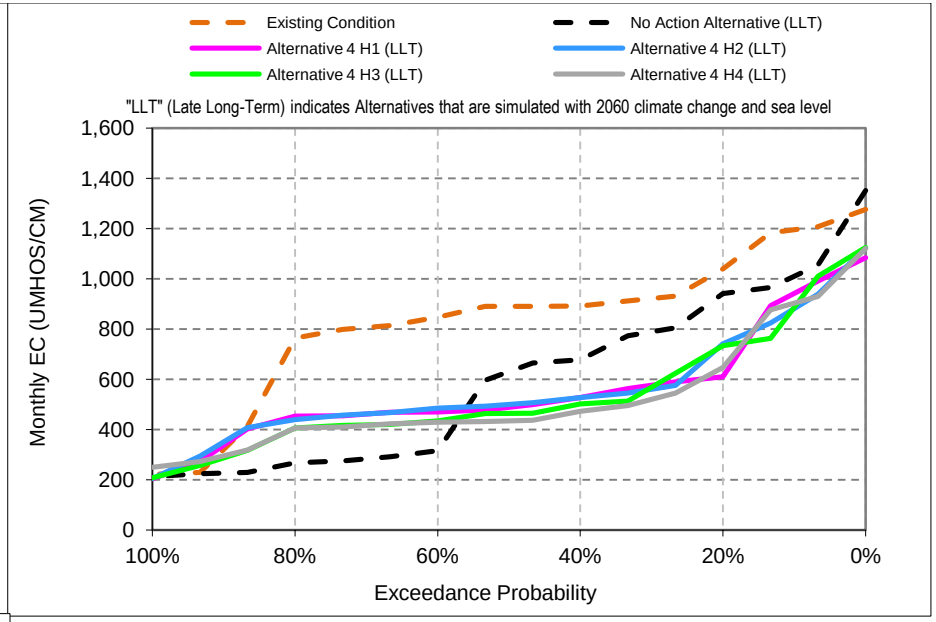


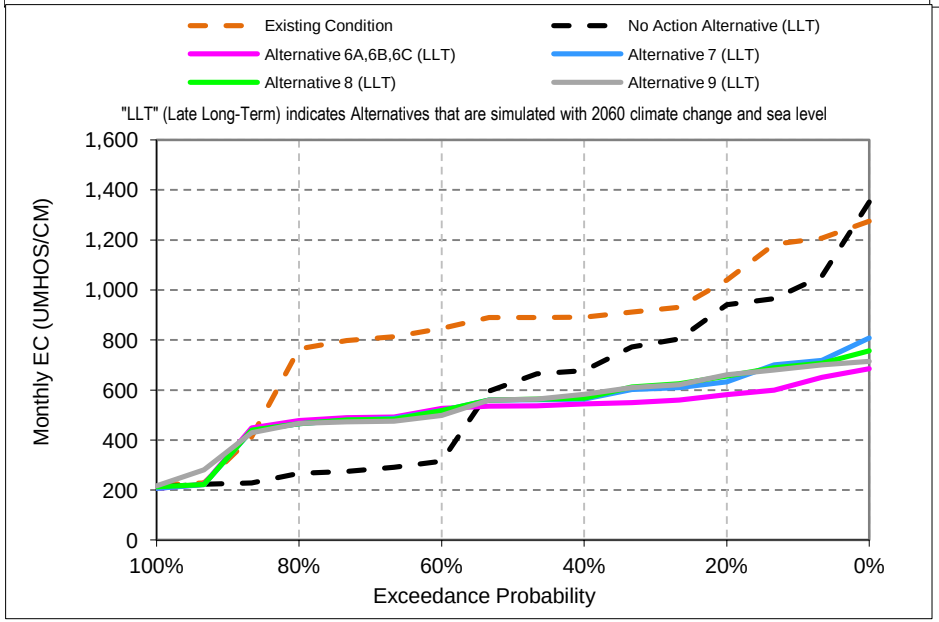
Alternative 4 Scenario Definitions:

H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

Figure C-36-10. Old River at Rock Slough, October EC



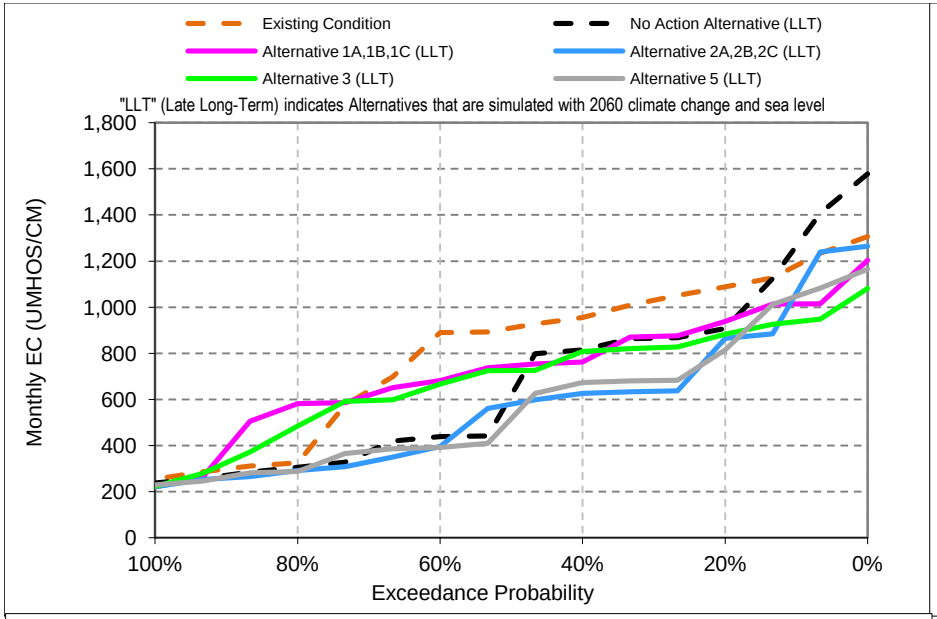


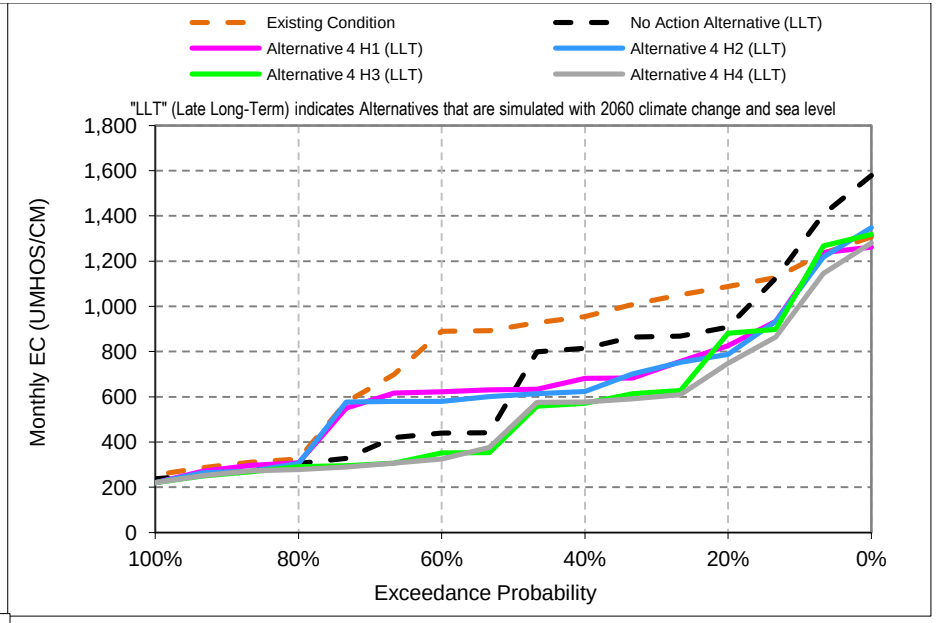


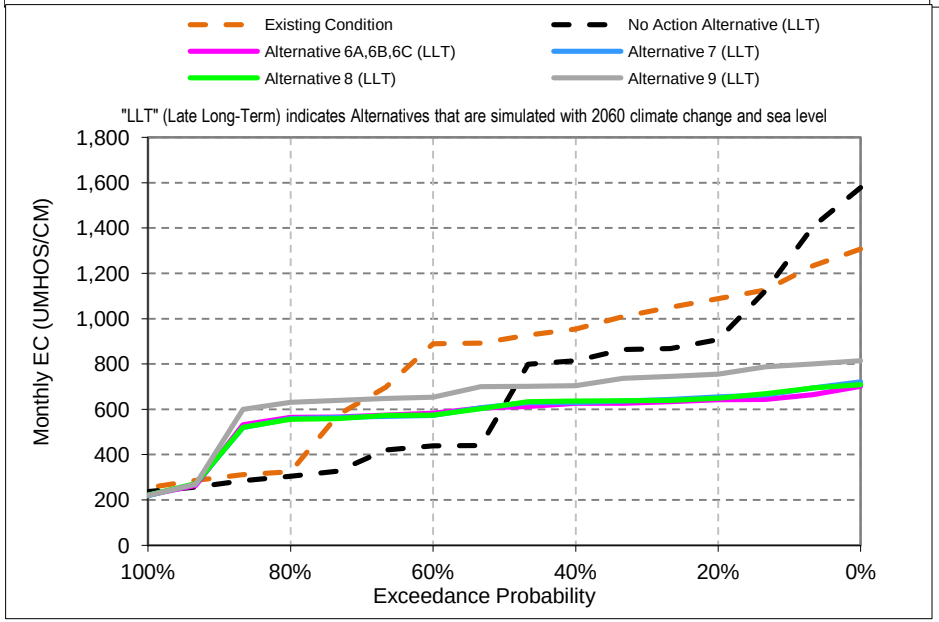
Alternative 4 Scenario Definitions:

H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

Figure C-36-11. Old River at Rock Slough, November EC







Alternative 4 Scenario Definitions:

H1 - Low Delta Outflow Scenario
H2 - Enhanced Spring Delta Outflow Scenario
H3 - Fall X2 Scenario
H4 - High Delta Outflow Scenario

Figure C-36-12. Old River at Rock Slough, December EC

Table C-36-1. Old River at Rock Slough, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	933	1,195	1,181	916	579	461	426	409	409	896	963	893
20%	867	1,040	1,088	843	505	382	376	398	314	721	859	856
30%	857	921	1,030	804	448	376	371	391	307	697	755	831
40%	853	891	954	750	409	348	357	350	287	554	732	819
50%	813	890	910	728	408	333	356	336	285	507	697	756
60%	698	846	890	620	400	332	347	332	280	367	528	738
70%	675	806	637	486	347	287	327	300	277	282	386	679
80%	560	764	324	370	309	259	306	289	273	248	359	652
90%	282	320	299	319	286	248	271	245	234	242	312	448
Long Term												
Full Simulation Period[a]	710	831	808	644	428	344	346	334	310	525	618	711
Water Year Types[b]												
Wet (31%)	527	691	475	407	323	301	278	276	254	264	319	466
Above Normal (25%)	915	1,036	1,181	639	405	326	356	345	293	238	348	620
Below Normal (6%)	691	891	928	927	400	305	370	395	273	367	528	856
Dry (13%)	684	935	933	704	408	325	379	360	272	572	719	828
Critical (25%)	801	766	802	733	542	410	366	344	398	844	904	821

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	964	1,010	1,266	823	622	480	437	403	478	751	724	907
20%	913	941	908	795	548	442	423	384	353	633	670	878
30%	885	788	866	782	446	393	380	380	305	568	655	805
40%	863	677	815	741	403	359	367	369	303	535	627	763
50%	800	630	620	675	386	357	347	361	294	432	592	757
60%	272	316	439	574	367	341	329	337	283	367	426	687
70%	270	283	374	449	348	293	326	319	274	259	360	519
80%	265	267	305	365	311	263	304	281	253	248	347	503
90%	248	226	270	335	286	234	254	219	237	240	317	429
Long Term												
Full Simulation Period[a]	629	602	692	613	426	359	348	337	329	460	526	686
Water Year Types[b]												
Wet (31%)	527	616	445	387	307	312	261	268	255	246	322	433
Above Normal (25%)	943	857	1,351	625	368	293	316	287	253	240	355	477
Below Normal (6%)	269	291	439	900	399	301	353	394	286	374	591	878
Dry (13%)	419	478	610	664	433	337	381	362	287	522	592	799
Critical (25%)	824	652	742	690	545	451	403	382	460	686	692	842

No Action Alternative (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	30	-185	85	-93	43	19	11	-6	69	-145	-239	13
20%	45	-99	-180	-48	43	59	47	-14	39	-89	-189	22
30%	28	-132	-164	-22	-2	17	9	-11	-3	-129	-99	-26
40%	11	-214	-139	-9	-6	11	11	19	16	-19	-106	-56
50%	-13	-260	-290	-53	-22	25	-9	25	9	-75	-104	1
60%	-426	-530	-450	-47	-33	9	-18	6	2	0	-102	-51
70%	-405	-523	-263	-38	1	6	-1	20	-2	-23	-26	-160
80%	-295	-497	-19	-5	1	4	-3	-8	-20	0	-12	-149
90%	-34	-94	-28	16	0	-14	-17	-27	3	-1	6	-19
Long Term												
Full Simulation Period[a]	-82	-229	-116	-32	-2	15	2	3	19	-65	-92	-25
Water Year Types[b]												
Wet (31%)	0	-75	-29	-20	-16	11	-17	-8	1	-18	4	-33
Above Normal (25%)	27	-179	170	-14	-37	-33	-40	-57	-40	2	7	-143
Below Normal (6%)	-422	-600	-488	-27	-1	-4	-17	-2	12	7	63	22
Dry (13%)	-264	-457	-323	-40	24	12	2	2	16	-50	-127	-29
Critical (25%)	24	-115	-60	-43	3	42	37	38	62	-158	-212	21

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

Table C-36-2. Old River at Rock Slough, Monthly EC

Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	933	1,195	1,181	916	579	461	426	409	409	896	963	893
20%	867	1,040	1,088	843	505	382	376	398	314	721	859	856
30%	857	921	1,030	804	448	376	371	391	307	697	755	831
40%	853	891	954	750	409	348	357	350	287	554	732	819
50%	813	890	910	728	408	333	356	336	285	507	697	756
60%	698	846	890	620	400	332	347	332	280	367	528	738
70%	675	806	637	486	347	287	327	300	277	282	386	679
80%	560	764	324	370	309	259	306	289	273	248	359	652
90%	282	320	299	319	286	248	271	245	234	242	312	448
Long Term												
Full Simulation Period[a]	710	831	808	644	428	344	346	334	310	525	618	711
Water Year Types[b]												
Wet (31%)	527	691	475	407	323	301	278	276	254	264	319	466
Above Normal (25%)	915	1,036	1,181	639	405	326	356	345	293	238	348	620
Below Normal (6%)	691	891	928	927	400	305	370	395	273	367	528	856
Dry (13%)	684	935	933	704	408	325	379	360	272	572	719	828
Critical (25%)	801	766	802	733	542	410	366	344	398	844	904	821

Alternative 1A,1B,1C (LLT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	899	1,048	1,014	934	653	495	419	390	504	894	883	936
20%	879	905	939	823	622	442	372	348	370	609	769	897
30%	840	905	873	795	595	404	345	337	322	506	649	859
40%	798	852	762	784	504	381	316	328	314	421	621	804
50%	786	629	745	769	464	347	316	311	304	387	591	772
60%	766	540	681	658	401	312	314	295	301	306	442	736
70%	737	464	618	605	381	294	299	283	280	287	424	709
80%	716	442	582	466	372	290	257	275	265	277	317	638
90%	542	289	384	378	296	258	224	225	248	261	291	589
Long Term												
Full Simulation Period[a]	754	671	729	691	475	365	325	310	342	465	569	758
Water Year Types[b]												
Wet (31%)	529	562	451	538	390	280	235	238	264	260	320	561
Above Normal (25%)	839	781	1,109	675	498	407	287	273	269	295	371	644
Below Normal (6%)	792	453	681	1,083	633	349	316	283	330	291	442	881
Dry (13%)	834	873	854	725	467	355	369	338	298	468	645	811
Critical (25%)	829	596	708	716	508	427	379	367	473	729	811	894

Alternative 1A,1B,1C (LLT) minus Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-35	-147	-167	**18**	**74**	**35**	-7	-19	**95**	-2	-81	**43**
20%	**12**	-134	-150	-21	**118**	**60**	-4	-50	**56**	-113	-90	**41**
30%	-17	-16	-156	-9	**147**	**28**	-26	-53	**15**	-191	-106	**28**
40%	-55	-40	-192	**34**	**95**	**33**	-40	-21	**27**	-133	-112	-15
50%	-27	-261	-164	**41**	**56**	**14**	-40	-25	**19**	-120	-105	**16**
60%	**68**	-306	-208	**38**	**1**	-20	-33	-37	**20**	-60	-86	-2
70%	**62**	-342	-19	**118**	**34**	**7**	-28	-16	**4**	**5**	**37**	**30**
80%	**156**	-322	**258**	**97**	**63**	**32**	-50	-14	-8	**29**	-42	-14
90%	**260**	-32	**85**	**60**	**10**	**11**	-47	-21	**15**	**20**	-20	**141**
Long Term												
Full Simulation Period[a]	**44**	-160	-79	**47**	**47**	**21**	-21	-24	**33**	-60	-50	**47**
Water Year Types[b]												
Wet (31%)	**2**	-129	-24	**132**	**67**	-21	-42	-38	**10**	-3	**1**	**95**
Above Normal (25%)	-77	-255	-72	**36**	**92**	**81**	-69	-72	-25	**57**	**24**	**24**
Below Normal (6%)	**101**	-438	-246	**156**	**233**	**44**	-55	-112	**56**	-76	-86	**25**
Dry (13%)	**150**	-62	-79	**21**	**59**	**30**	-10	-22	**26**	-104	-74	-17
Critical (25%)	**28**	-170	-94	-17	-34	**18**	**13**	**23**	**75**	-115	-93	**73**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-36-3. Old River at Rock Slough, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	933	1,195	1,181	916	579	461	426	409	409	896	963	893
20%	867	1,040	1,088	843	505	382	376	398	314	721	859	856
30%	857	921	1,030	804	448	376	371	391	307	697	755	831
40%	853	891	954	750	409	348	357	350	287	554	732	819
50%	813	890	910	728	408	333	356	336	285	507	697	756
60%	698	846	890	620	400	332	347	332	280	367	528	738
70%	675	806	637	486	347	287	327	300	277	282	386	679
80%	560	764	324	370	309	259	306	289	273	248	359	652
90%	282	320	299	319	286	248	271	245	234	242	312	448
Long Term												
Full Simulation Period[a]	710	831	808	644	428	344	346	334	310	525	618	711
Water Year Types[b]												
Wet (31%)	527	691	475	407	323	301	278	276	254	264	319	466
Above Normal (25%)	915	1,036	1,181	639	405	326	356	345	293	238	348	620
Below Normal (6%)	691	891	928	927	400	305	370	395	273	367	528	856
Dry (13%)	684	935	933	704	408	325	379	360	272	572	719	828
Critical (25%)	801	766	802	733	542	410	366	344	398	844	904	821

Alternative 2A,2B,2C (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	951	979	1,062	877	660	525	468	416	564	940	888	961
20%	897	624	865	786	510	478	442	393	386	604	733	909
30%	822	504	635	711	507	386	383	381	325	523	687	875
40%	757	476	626	591	457	372	365	369	323	438	626	867
50%	657	457	580	507	413	337	349	352	320	399	592	793
60%	416	425	395	427	368	309	346	343	316	330	567	742
70%	377	417	329	415	342	294	340	339	302	285	440	525
80%	362	405	292	351	323	290	267	305	291	277	352	420
90%	328	292	259	301	296	264	222	210	259	269	304	403
Long Term												
Full Simulation Period[a]	626	533	587	567	441	369	354	341	363	481	586	710
Water Year Types[b]												
Wet (31%)	492	390	421	474	406	283	246	255	271	268	334	381
Above Normal (25%)	840	775	919	633	512	421	306	284	309	303	460	525
Below Normal (6%)	374	414	395	712	444	352	345	374	321	287	439	867
Dry (13%)	461	535	543	442	385	359	429	381	309	461	636	829
Critical (25%)	830	574	660	686	484	429	401	393	509	777	829	919

Alternative 2A,2B,2C (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	18	-216	-119	-39	81	64	42	7	155	44	-75	67
20%	30	-415	-224	-57	5	96	66	-4	72	-117	-126	53
30%	-36	-417	-395	-93	59	10	12	-10	18	-174	-68	43
40%	-96	-416	-329	-159	48	24	8	19	36	-116	-107	48
50%	-156	-433	-330	-221	5	4	-6	16	35	-108	-105	37
60%	-282	-421	-495	-193	-32	-23	-1	12	36	-37	39	4
70%	-298	-389	-308	-72	-6	7	13	39	26	3	54	-154
80%	-197	-359	-33	-18	14	31	-40	15	17	29	-7	-232
90%	46	-28	-40	-18	10	16	-49	-36	25	27	-8	-45
Long Term												
Full Simulation Period[a]	-85	-298	-221	-77	13	25	7	7	53	-45	-32	-1
Water Year Types[b]												
Wet (31%)	-35	-301	-53	67	83	-18	-32	-21	17	5	15	-85
Above Normal (25%)	-75	-262	-262	-7	107	95	-49	-61	16	65	112	-95
Below Normal (6%)	-317	-477	-533	-215	44	47	-26	-22	48	-80	-89	11
Dry (13%)	-223	-400	-390	-261	-23	34	50	21	37	-112	-83	1
Critical (25%)	29	-193	-142	-46	-59	19	35	50	111	-67	-75	98

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-36-4. Old River at Rock Slough, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	933	1,195	1,181	916	579	461	426	409	409	896	963	893
20%	867	1,040	1,088	843	505	382	376	398	314	721	859	856
30%	857	921	1,030	804	448	376	371	391	307	697	755	831
40%	853	891	954	750	409	348	357	350	287	554	732	819
50%	813	890	910	728	408	333	356	336	285	507	697	756
60%	698	846	890	620	400	332	347	332	280	367	528	738
70%	675	806	637	486	347	287	327	300	277	282	386	679
80%	560	764	324	370	309	259	306	289	273	248	359	652
90%	282	320	299	319	286	248	271	245	234	242	312	448
Long Term												
Full Simulation Period[a]	710	831	808	644	428	344	346	334	310	525	618	711
Water Year Types[b]												
Wet (31%)	527	691	475	407	323	301	278	276	254	264	319	466
Above Normal (25%)	915	1,036	1,181	639	405	326	356	345	293	238	348	620
Below Normal (6%)	691	891	928	927	400	305	370	395	273	367	528	856
Dry (13%)	684	935	933	704	408	325	379	360	272	572	719	828
Critical (25%)	801	766	802	733	542	410	366	344	398	844	904	821

Alternative 3 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	943	1,052	937	983	676	541	394	372	544	895	881	932
20%	915	947	883	835	507	433	384	339	371	614	777	907
30%	891	884	823	790	487	401	367	332	325	530	661	856
40%	829	846	807	770	451	378	324	323	317	414	622	817
50%	813	592	726	668	418	367	319	301	311	393	585	777
60%	780	543	666	576	393	320	313	282	303	309	457	737
70%	727	503	595	506	362	316	290	277	271	299	416	710
80%	722	398	485	402	355	310	275	270	245	286	315	668
90%	555	316	325	307	303	257	226	233	243	264	297	603
Long Term												
Full Simulation Period[a]	773	678	685	658	453	377	326	306	344	471	571	764
Water Year Types[b]												
Wet (31%)	523	594	400	370	339	298	241	240	259	261	316	576
Above Normal (25%)	920	782	954	613	358	369	322	276	261	307	386	670
Below Normal (6%)	709	398	725	1,138	507	394	322	282	331	292	439	907
Dry (13%)	846	887	837	754	466	349	328	307	292	477	642	809
Critical (25%)	867	592	675	732	560	461	394	376	490	735	819	889

Alternative 3 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9	-142	-243	67	97	80	-32	-37	134	-1	-82	39
20%	48	-93	-206	-8	2	50	8	-59	56	-108	-82	51
30%	33	-37	-206	-14	40	25	-4	-59	18	-166	-94	25
40%	-24	-45	-147	21	42	30	-32	-27	30	-140	-111	-2
50%	0	-298	-184	-60	10	34	-37	-35	26	-114	-111	21
60%	82	-303	-224	-45	-8	-12	-34	-49	22	-58	-71	-1
70%	52	-303	-42	20	15	28	-37	-23	-5	17	30	30
80%	162	-366	160	32	46	52	-31	-19	-29	38	-44	16
90%	273	-4	26	-11	16	9	-45	-13	10	22	-15	155
Long Term												
Full Simulation Period[a]	62	-153	-123	13	25	33	-20	-28	35	-55	-47	53
Water Year Types[b]												
Wet (31%)	-4	-97	-75	-36	17	-3	-37	-35	5	-3	-3	110
Above Normal (25%)	5	-254	-227	-26	-47	43	-34	-69	-32	69	38	51
Below Normal (6%)	19	-493	-203	211	107	89	-48	-113	57	-75	-89	51
Dry (13%)	162	-48	-96	50	58	24	-51	-53	21	-95	-77	-19
Critical (25%)	67	-174	-127	0	18	52	28	32	92	-109	-85	68

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-36-5. Old River at Rock Slough, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	933	1,195	1,181	916	579	461	426	409	409	896	963	893
20%	867	1,040	1,088	843	505	382	376	398	314	721	859	856
30%	857	921	1,030	804	448	376	371	391	307	697	755	831
40%	853	891	954	750	409	348	357	350	287	554	732	819
50%	813	890	910	728	408	333	356	336	285	507	697	756
60%	698	846	890	620	400	332	347	332	280	367	528	738
70%	675	806	637	486	347	287	327	300	277	282	386	679
80%	560	764	324	370	309	259	306	289	273	248	359	652
90%	282	320	299	319	286	248	271	245	234	242	312	448
Long Term												
Full Simulation Period[a]	710	831	808	644	428	344	346	334	310	525	618	711
Water Year Types[b]												
Wet (31%)	527	691	475	407	323	301	278	276	254	264	319	466
Above Normal (25%)	915	1,036	1,181	639	405	326	356	345	293	238	348	620
Below Normal (6%)	691	891	928	927	400	305	370	395	273	367	528	856
Dry (13%)	684	935	933	704	408	325	379	360	272	572	719	828
Critical (25%)	801	766	802	733	542	410	366	344	398	844	904	821

Alternative 4 H1 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	916	942	1,085	905	513	524	445	417	552	925	885	956
20%	895	610	826	732	491	464	430	393	381	581	719	906
30%	858	575	719	666	478	389	379	381	339	538	669	891
40%	827	526	681	600	433	373	366	362	327	422	631	873
50%	786	488	632	579	410	343	358	341	325	403	616	852
60%	739	470	622	450	399	311	350	336	316	362	601	818
70%	713	461	583	411	370	306	337	329	303	295	482	757
80%	642	454	308	353	328	299	267	304	291	276	346	723
90%	549	337	284	309	297	269	221	210	250	268	321	632
Long Term												
Full Simulation Period[a]	749	559	658	577	422	372	348	338	362	482	598	801
Water Year Types[b]												
Wet (31%)	505	385	334	343	352	288	246	255	270	270	365	646
Above Normal (25%)	828	776	927	511	418	419	314	284	309	319	479	760
Below Normal (6%)	803	402	682	1,017	480	391	370	379	351	298	436	864
Dry (13%)	780	632	815	639	425	362	399	369	307	474	642	827
Critical (25%)	878	587	679	652	464	424	397	392	503	759	830	907

Alternative 4 H1 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-18	-253	-96	-11	-66	**64**	**19**	**8**	**143**	**29**	-78	**63**
20%	**28**	-429	-263	-111	-13	**81**	**55**	-4	**67**	-140	-141	**50**
30%	**1**	-345	-310	-138	**30**	**13**	**8**	-9	**32**	-159	-86	**59**
40%	-26	-365	-273	-150	**24**	**25**	**9**	**13**	**40**	-131	-102	**54**
50%	-26	-402	-278	-149	**2**	**11**	**2**	**5**	**40**	-103	-81	**96**
60%	**42**	-376	-267	-170	-1	-21	**3**	**5**	**35**	-4	**73**	**79**
70%	**38**	-345	-54	-75	**22**	**18**	**10**	**29**	**27**	**13**	**96**	**78**
80%	**82**	-311	-16	-16	**19**	**40**	-40	**15**	**17**	**28**	-14	**71**
90%	**267**	**16**	-15	-10	**10**	**21**	-49	-35	**16**	**27**	**9**	**184**
Long Term												
Full Simulation Period[a]	**39**	-272	-150	-68	-6	**28**	**2**	**4**	**53**	-44	-20	**90**
Water Year Types[b]												
Wet (31%)	-22	-306	-140	-64	**30**	-13	-31	-21	**16**	**7**	**47**	**180**
Above Normal (25%)	-87	-261	-254	-128	**13**	**93**	-42	-60	**16**	**81**	**131**	**140**
Below Normal (6%)	**113**	-490	-245	**90**	**80**	**86**	-1	-16	**78**	-69	-92	**8**
Dry (13%)	**96**	-304	-118	-64	**17**	**37**	**20**	**9**	**35**	-98	-77	-1
Critical (25%)	**78**	-180	-123	-81	-78	**14**	**31**	**48**	**105**	-85	-74	**86**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-36-6. Old River at Rock Slough, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	933	1,195	1,181	916	579	461	426	409	409	896	963	893
20%	867	1,040	1,088	843	505	382	376	398	314	721	859	856
30%	857	921	1,030	804	448	376	371	391	307	697	755	831
40%	853	891	954	750	409	348	357	350	287	554	732	819
50%	813	890	910	728	408	333	356	336	285	507	697	756
60%	698	846	890	620	400	332	347	332	280	367	528	738
70%	675	806	637	486	347	287	327	300	277	282	386	679
80%	560	764	324	370	309	259	306	289	273	248	359	652
90%	282	320	299	319	286	248	271	245	234	242	312	448
Long Term												
Full Simulation Period[a]	710	831	808	644	428	344	346	334	310	525	618	711
Water Year Types[b]												
Wet (31%)	527	691	475	407	323	301	278	276	254	264	319	466
Above Normal (25%)	915	1,036	1,181	639	405	326	356	345	293	238	348	620
Below Normal (6%)	691	891	928	927	400	305	370	395	273	367	528	856
Dry (13%)	684	935	933	704	408	325	379	360	272	572	719	828
Critical (25%)	801	766	802	733	542	410	366	344	398	844	904	821

Alternative 4 H2 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	943	881	1,076	780	576	504	458	454	544	859	866	936
20%	922	741	787	755	484	485	446	408	418	592	715	915
30%	819	560	727	678	480	416	437	397	370	468	701	865
40%	810	527	624	625	476	399	409	387	338	445	668	860
50%	793	500	607	594	433	354	383	373	333	400	553	811
60%	759	485	580	438	381	316	360	359	328	346	446	777
70%	724	462	578	408	367	309	343	349	325	305	400	749
80%	673	439	305	363	328	299	301	305	293	286	345	683
90%	505	350	268	310	296	265	221	210	255	279	314	606
Long Term												
Full Simulation Period[a]	751	564	648	557	427	378	370	355	373	469	574	780
Water Year Types[b]												
Wet (31%)	568	391	342	350	343	285	250	260	291	289	328	574
Above Normal (25%)	851	790	964	513	463	428	329	292	313	314	377	708
Below Normal (6%)	754	741	752	625	445	386	360	408	324	286	446	865
Dry (13%)	729	585	753	622	440	377	452	398	331	435	633	834
Critical (25%)	876	560	663	675	467	433	418	410	506	739	828	914

Alternative 4 H2 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	10	-314	-105	-136	-4	44	33	45	135	-37	-98	43
20%	54	-299	-301	-89	-20	102	70	10	104	-129	-145	60
30%	-38	-361	-303	-125	32	40	67	6	63	-229	-54	33
40%	-43	-365	-330	-125	67	51	52	37	51	-109	-64	41
50%	-20	-390	-303	-134	25	21	28	37	48	-107	-143	55
60%	62	-361	-309	-183	-19	-16	13	27	48	-21	-82	39
70%	49	-344	-59	-78	19	22	16	49	48	24	13	70
80%	114	-325	-19	-7	18	41	-6	15	20	38	-14	31
90%	223	30	-31	-9	10	17	-49	-35	21	37	2	159
Long Term												
Full Simulation Period[a]	41	-267	-160	-87	-1	34	24	20	64	-56	-44	69
Water Year Types[b]												
Wet (31%)	41	-300	-132	-57	20	-16	-27	-16	37	26	10	108
Above Normal (25%)	-65	-246	-217	-126	57	102	-27	-53	20	76	29	88
Below Normal (6%)	63	-151	-175	-302	45	80	-11	12	51	-81	-82	10
Dry (13%)	45	-351	-180	-82	31	52	73	38	59	-137	-86	6
Critical (25%)	75	-206	-139	-58	-75	23	52	67	108	-105	-76	93

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-36-7. Old River at Rock Slough, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	933	1,195	1,181	916	579	461	426	409	409	896	963	893
20%	867	1,040	1,088	843	505	382	376	398	314	721	859	856
30%	857	921	1,030	804	448	376	371	391	307	697	755	831
40%	853	891	954	750	409	348	357	350	287	554	732	819
50%	813	890	910	728	408	333	356	336	285	507	697	756
60%	698	846	890	620	400	332	347	332	280	367	528	738
70%	675	806	637	486	347	287	327	300	277	282	386	679
80%	560	764	324	370	309	259	306	289	273	248	359	652
90%	282	320	299	319	286	248	271	245	234	242	312	448
Long Term												
Full Simulation Period[a]	710	831	808	644	428	344	346	334	310	525	618	711
Water Year Types[b]												
Wet (31%)	527	691	475	407	323	301	278	276	254	264	319	466
Above Normal (25%)	915	1,036	1,181	639	405	326	356	345	293	238	348	620
Below Normal (6%)	691	891	928	927	400	305	370	395	273	367	528	856
Dry (13%)	684	935	933	704	408	325	379	360	272	572	719	828
Critical (25%)	801	766	802	733	542	410	366	344	398	844	904	821

Alternative 4 H3 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	942	886	1,083	659	512	505	445	415	561	940	896	972
20%	896	734	881	587	476	457	435	393	386	591	747	915
30%	835	568	621	569	431	382	392	380	325	522	664	886
40%	723	501	571	540	400	371	380	371	323	438	617	833
50%	656	464	456	429	386	339	363	352	317	392	599	780
60%	413	433	352	422	368	311	350	341	313	363	583	739
70%	382	418	301	376	338	298	342	332	302	283	477	548
80%	376	405	291	348	327	294	267	304	291	276	349	429
90%	318	286	259	304	299	263	221	210	250	268	305	414
Long Term												
Full Simulation Period[a]	621	541	567	480	401	365	352	340	360	480	595	714
Water Year Types[b]												
Wet (31%)	477	388	336	344	353	286	246	255	270	268	354	406
Above Normal (25%)	868	794	945	511	424	420	314	284	309	320	483	521
Below Normal (6%)	376	416	353	552	441	388	349	375	313	282	440	868
Dry (13%)	464	538	544	444	384	355	408	371	304	471	632	829
Critical (25%)	811	589	662	592	435	411	407	398	506	762	835	916

Alternative 4 H3 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9	-309	-98	-257	-67	45	19	7	151	44	-67	79
20%	29	-306	-208	-256	-29	75	59	-5	72	-130	-113	59
30%	-23	-352	-409	-234	-16	6	21	-11	18	-174	-91	55
40%	-130	-390	-383	-210	-9	23	23	21	36	-116	-116	14
50%	-157	-426	-454	-299	-21	6	7	16	32	-114	-97	24
60%	-285	-413	-537	-199	-32	-21	3	10	33	-4	55	1
70%	-293	-388	-336	-111	-9	10	15	32	25	1	91	-131
80%	-183	-359	-33	-21	17	35	-40	15	17	28	-11	-223
90%	36	-34	-40	-15	13	15	-50	-35	16	26	-7	-34
Long Term												
Full Simulation Period[a]	-90	-291	-241	-164	-27	21	6	5	51	-45	-23	3
Water Year Types[b]												
Wet (31%)	-50	-303	-139	-63	30	-15	-31	-21	16	5	35	-60
Above Normal (25%)	-48	-242	-236	-128	19	94	-42	-60	16	82	135	-98
Below Normal (6%)	-314	-476	-575	-374	41	83	-22	-21	39	-84	-88	12
Dry (13%)	-220	-398	-389	-260	-25	30	30	10	32	-101	-87	1
Critical (25%)	11	-178	-140	-141	-108	2	41	54	109	-82	-69	95

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-36-8. Old River at Rock Slough, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	933	1,195	1,181	916	579	461	426	409	409	896	963	893
20%	867	1,040	1,088	843	505	382	376	398	314	721	859	856
30%	857	921	1,030	804	448	376	371	391	307	697	755	831
40%	853	891	954	750	409	348	357	350	287	554	732	819
50%	813	890	910	728	408	333	356	336	285	507	697	756
60%	698	846	890	620	400	332	347	332	280	367	528	738
70%	675	806	637	486	347	287	327	300	277	282	386	679
80%	560	764	324	370	309	259	306	289	273	248	359	652
90%	282	320	299	319	286	248	271	245	234	242	312	448
Long Term												
Full Simulation Period[a]	710	831	808	644	428	344	346	334	310	525	618	711
Water Year Types[b]												
Wet (31%)	527	691	475	407	323	301	278	276	254	264	319	466
Above Normal (25%)	915	1,036	1,181	639	405	326	356	345	293	238	348	620
Below Normal (6%)	691	891	928	927	400	305	370	395	273	367	528	856
Dry (13%)	684	935	933	704	408	325	379	360	272	572	719	828
Critical (25%)	801	766	802	733	542	410	366	344	398	844	904	821

Alternative 4 H4 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	943	903	1,005	804	620	581	475	460	549	905	866	969
20%	881	647	747	660	530	476	452	422	419	564	713	917
30%	816	519	600	603	483	421	442	400	377	457	675	864
40%	808	472	577	500	446	387	423	386	353	427	650	829
50%	719	434	476	450	396	344	390	373	336	372	524	802
60%	419	429	326	429	365	313	359	358	332	346	438	783
70%	384	416	298	406	345	304	346	348	327	312	411	503
80%	354	406	278	345	323	290	302	304	293	295	345	446
90%	317	295	262	304	298	263	221	210	255	279	314	420
Long Term												
Full Simulation Period[a]	632	529	544	516	432	384	374	357	377	469	566	713
Water Year Types[b]												
Wet (31%)	538	374	337	382	358	284	250	260	291	292	338	403
Above Normal (25%)	897	797	927	513	441	428	329	292	313	314	377	487
Below Normal (6%)	354	409	376	660	446	387	359	406	369	298	414	877
Dry (13%)	460	519	508	431	386	361	454	403	331	411	600	857
Critical (25%)	796	577	620	664	521	465	430	414	510	752	829	902

Alternative 4 H4 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	10	-292	-176	-112	41	121	49	51	139	9	-97	75
20%	14	-392	-341	-183	26	93	76	24	104	-157	-147	61
30%	-41	-402	-430	-200	35	45	71	9	69	-239	-80	32
40%	-45	-419	-378	-250	37	40	67	37	66	-127	-82	10
50%	-94	-456	-434	-278	-12	11	34	37	51	-135	-172	46
60%	-278	-417	-564	-191	-35	-19	12	27	52	-21	-90	45
70%	-291	-390	-339	-81	-2	17	19	48	51	30	25	-176
80%	-206	-358	-46	-24	14	31	-5	15	20	47	-14	-206
90%	35	-25	-37	-15	12	15	-50	-35	21	37	2	-27
Long Term												
Full Simulation Period[a]	-78	-303	-264	-128	4	40	28	23	68	-56	-52	2
Water Year Types[b]												
Wet (31%)	11	-317	-138	-25	36	-16	-27	-16	37	28	19	-63
Above Normal (25%)	-18	-240	-253	-126	36	102	-26	-53	20	76	29	-132
Below Normal (6%)	-337	-482	-551	-266	46	82	-12	11	96	-69	-114	22
Dry (13%)	-224	-416	-425	-273	-23	36	76	43	59	-161	-119	29
Critical (25%)	-4	-190	-182	-69	-21	56	63	70	112	-92	-75	81

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-36-9. Old River at Rock Slough, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	933	1,195	1,181	916	579	461	426	409	409	896	963	893
20%	867	1,040	1,088	843	505	382	376	398	314	721	859	856
30%	857	921	1,030	804	448	376	371	391	307	697	755	831
40%	853	891	954	750	409	348	357	350	287	554	732	819
50%	813	890	910	728	408	333	356	336	285	507	697	756
60%	698	846	890	620	400	332	347	332	280	367	528	738
70%	675	806	637	486	347	287	327	300	277	282	386	679
80%	560	764	324	370	309	259	306	289	273	248	359	652
90%	282	320	299	319	286	248	271	245	234	242	312	448
Long Term												
Full Simulation Period[a]	710	831	808	644	428	344	346	334	310	525	618	711
Water Year Types[b]												
Wet (31%)	527	691	475	407	323	301	278	276	254	264	319	466
Above Normal (25%)	915	1,036	1,181	639	405	326	356	345	293	238	348	620
Below Normal (6%)	691	891	928	927	400	305	370	395	273	367	528	856
Dry (13%)	684	935	933	704	408	325	379	360	272	572	719	828
Critical (25%)	801	766	802	733	542	410	366	344	398	844	904	821

Alternative 5 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	940	1,079	1,047	833	664	500	420	412	506	910	873	969
20%	878	906	814	813	505	485	367	384	362	657	745	885
30%	841	804	682	778	458	386	363	373	319	594	711	866
40%	793	523	673	708	424	367	343	364	315	435	678	855
50%	737	496	518	612	410	337	338	335	299	395	655	801
60%	327	419	391	529	364	331	334	319	287	360	555	716
70%	316	406	376	449	343	312	320	314	276	311	529	637
80%	307	383	287	341	322	282	300	285	252	273	358	478
90%	303	272	264	310	316	247	238	217	248	263	331	383
Long Term												
Full Simulation Period[a]	612	621	583	617	439	360	336	331	337	490	617	724
Water Year Types[b]												
Wet (31%)	502	676	396	440	332	304	255	268	254	272	415	468
Above Normal (25%)	835	943	1,089	501	356	299	313	287	265	284	422	491
Below Normal (6%)	307	404	409	808	423	331	367	400	300	362	663	860
Dry (13%)	439	528	520	739	495	359	350	352	296	495	640	829
Critical (25%)	809	565	616	671	518	434	392	369	473	767	830	911

Alternative 5 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	6	-116	-133	-83	85	39	-6	3	96	14	-90	75
20%	11	-133	-274	-30	0	102	-9	-14	48	-65	-114	29
30%	-17	-117	-348	-26	11	10	-8	-17	12	-103	-44	35
40%	-60	-369	-281	-42	15	19	-14	14	28	-119	-54	36
50%	-75	-394	-392	-116	2	4	-18	-1	14	-112	-42	45
60%	-371	-427	-499	-91	-36	0	-13	-12	7	-6	27	-22
70%	-359	-400	-261	-38	-4	24	-8	14	-1	29	143	-42
80%	-253	-381	-37	-29	12	23	-6	-5	-22	25	-1	-174
90%	22	-48	-35	-9	30	0	-33	-28	14	21	19	-65
Long Term												
Full Simulation Period[a]	-99	-211	-225	-27	12	15	-10	-3	28	-36	-1	13
Water Year Types[b]												
Wet (31%)	-25	-15	-78	33	9	4	-23	-8	0	8	97	2
Above Normal (25%)	-80	-94	-92	-138	-49	-27	-43	-57	-28	46	74	-129
Below Normal (6%)	-384	-487	-518	-119	23	26	-4	5	27	-4	135	5
Dry (13%)	-245	-407	-413	35	86	34	-29	-8	24	-77	-79	1
Critical (25%)	8	-201	-186	-61	-24	24	26	26	75	-77	-74	90

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-36-10. Old River at Rock Slough, Monthly EC

Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	933	1,195	1,181	916	579	461	426	409	409	896	963	893
20%	867	1,040	1,088	843	505	382	376	398	314	721	859	856
30%	857	921	1,030	804	448	376	371	391	307	697	755	831
40%	853	891	954	750	409	348	357	350	287	554	732	819
50%	813	890	910	728	408	333	356	336	285	507	697	756
60%	698	846	890	620	400	332	347	332	280	367	528	738
70%	675	806	637	486	347	287	327	300	277	282	386	679
80%	560	764	324	370	309	259	306	289	273	248	359	652
90%	282	320	299	319	286	248	271	245	234	242	312	448
Long Term												
Full Simulation Period[a]	710	831	808	644	428	344	346	334	310	525	618	711
Water Year Types[b]												
Wet (31%)	527	691	475	407	323	301	278	276	254	264	319	466
Above Normal (25%)	915	1,036	1,181	639	405	326	356	345	293	238	348	620
Below Normal (6%)	691	891	928	927	400	305	370	395	273	367	528	856
Dry (13%)	684	935	933	704	408	325	379	360	272	572	719	828
Critical (25%)	801	766	802	733	542	410	366	344	398	844	904	821

Alternative 6A,6B,6C (LLT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	577	625	654	791	821	862	778	616	503	591	696	625
20%	547	581	642	758	816	848	770	610	487	575	543	535
30%	538	555	630	751	809	837	726	600	480	533	532	522
40%	534	545	627	746	797	834	693	573	477	467	503	509
50%	524	536	608	738	795	808	660	540	471	441	475	492
60%	485	526	582	729	705	611	380	395	462	413	450	487
70%	482	491	571	723	607	319	345	349	428	404	440	481
80%	443	477	564	716	403	292	305	310	384	369	431	467
90%	388	336	398	374	297	266	221	216	371	347	403	434
Long Term												
Full Simulation Period[a]	490	507	566	678	654	617	536	459	447	470	507	505
Water Year Types[b]												
Wet (31%)	398	378	441	549	406	281	249	270	365	431	411	404
Above Normal (25%)	579	610	653	627	499	412	316	282	480	543	508	487
Below Normal (6%)	485	526	582	716	534	337	380	379	384	330	399	466
Dry (13%)	473	499	579	732	801	858	730	566	449	393	449	502
Critical (25%)	544	570	619	750	819	830	731	612	510	560	650	604

Alternative 6A,6B,6C (LLT) minus Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-357	-570	-527	-125	**242**	**401**	**352**	**207**	**94**	-305	-267	-268
20%	-320	-458	-446	-85	**311**	**466**	**394**	**213**	**173**	-147	-317	-320
30%	-319	-366	-400	-53	**361**	**461**	**355**	**209**	**172**	-164	-223	-310
40%	-319	-347	-328	-4	**387**	**486**	**337**	**223**	**189**	-87	-229	-310
50%	-289	-354	-301	**10**	**387**	**475**	**305**	**204**	**186**	-66	-222	-264
60%	-213	-320	-307	**108**	**305**	**279**	**33**	**63**	**181**	**47**	-78	-251
70%	-193	-315	-66	**237**	**259**	**31**	**17**	**49**	**151**	**122**	**54**	-198
80%	-116	-287	**240**	**347**	**93**	**33**	-1	**21**	**110**	**121**	**72**	-185
90%	**106**	**16**	**99**	**56**	**11**	**18**	-50	-29	**137**	**106**	**92**	-14
Long Term												
Full Simulation Period[a]	-220	-325	-242	**33**	**226**	**272**	**190**	**125**	**137**	-56	-112	-206
Water Year Types[b]												
Wet (31%)	-129	-313	-34	**142**	**84**	-20	-29	-6	**111**	**168**	**93**	-62
Above Normal (25%)	-336	-426	-528	-12	**94**	**86**	-40	-63	**187**	**305**	**160**	-133
Below Normal (6%)	-206	-365	-345	-210	**134**	**32**	**10**	-17	**110**	-37	-129	-390
Dry (13%)	-210	-436	-354	**28**	**393**	**533**	**351**	**205**	**177**	-179	-270	-326
Critical (25%)	-257	-196	-183	**17**	**277**	**421**	**365**	**268**	**112**	-284	-254	-217

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-36-11. Old River at Rock Slough, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	933	1,195	1,181	916	579	461	426	409	409	896	963	893
20%	867	1,040	1,088	843	505	382	376	398	314	721	859	856
30%	857	921	1,030	804	448	376	371	391	307	697	755	831
40%	853	891	954	750	409	348	357	350	287	554	732	819
50%	813	890	910	728	408	333	356	336	285	507	697	756
60%	698	846	890	620	400	332	347	332	280	367	528	738
70%	675	806	637	486	347	287	327	300	277	282	386	679
80%	560	764	324	370	309	259	306	289	273	248	359	652
90%	282	320	299	319	286	248	271	245	234	242	312	448
Long Term												
Full Simulation Period[a]	710	831	808	644	428	344	346	334	310	525	618	711
Water Year Types[b]												
Wet (31%)	527	691	475	407	323	301	278	276	254	264	319	466
Above Normal (25%)	915	1,036	1,181	639	405	326	356	345	293	238	348	620
Below Normal (6%)	691	891	928	927	400	305	370	395	273	367	528	856
Dry (13%)	684	935	933	704	408	325	379	360	272	572	719	828
Critical (25%)	801	766	802	733	542	410	366	344	398	844	904	821

Alternative 7 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	863	709	679	765	819	857	767	613	484	597	904	925
20%	772	633	655	758	810	835	748	598	477	506	892	915
30%	752	606	640	752	801	828	721	588	471	486	812	896
40%	748	563	630	738	782	820	701	559	471	443	798	880
50%	694	560	618	723	780	807	661	538	466	419	728	838
60%	478	517	573	710	691	648	391	389	462	401	482	794
70%	467	483	567	696	606	353	343	345	429	296	444	494
80%	431	465	559	673	552	318	302	306	390	292	391	470
90%	382	330	395	343	307	268	220	210	381	273	357	431
Long Term												
Full Simulation Period[a]	620	536	572	661	659	620	534	454	437	428	654	719
Water Year Types[b]												
Wet (31%)	497	388	441	540	421	294	247	266	368	277	390	418
Above Normal (25%)	832	684	664	558	516	430	316	274	475	289	391	481
Below Normal (6%)	469	517	573	673	601	386	391	374	390	408	753	931
Dry (13%)	517	504	576	714	788	841	720	559	451	571	764	851
Critical (25%)	746	623	638	753	815	828	729	607	475	495	863	908

Alternative 7 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-70	-486	-502	-151	**240**	**396**	**341**	**204**	**75**	-299	-60	**32**
20%	-95	-406	-433	-85	**306**	**452**	**372**	**201**	**162**	-215	**32**	**59**
30%	-105	-315	-389	-52	**353**	**452**	**350**	**197**	**164**	-211	**57**	**65**
40%	-105	-328	-324	-12	**373**	**472**	**344**	**210**	**183**	-110	**66**	**62**
50%	-119	-330	-291	-5	**372**	**474**	**305**	**202**	**181**	-88	**32**	**82**
60%	-220	-329	-317	**90**	**291**	**316**	**44**	**57**	**182**	**35**	-46	**55**
70%	-208	-322	-70	**209**	**259**	**65**	**16**	**45**	**152**	**14**	**57**	-185
80%	-128	-299	**235**	**304**	**243**	**59**	-4	**17**	**117**	**44**	**31**	-182
90%	**101**	**10**	**96**	**24**	**21**	**21**	-51	-36	**147**	**31**	**45**	-17
Long Term												
Full Simulation Period[a]	-91	-296	-236	**16**	**231**	**276**	**187**	**119**	**128**	-97	**36**	**8**
Water Year Types[b]												
Wet (31%)	-30	-303	-34	**133**	**98**	-7	-31	-9	**114**	**13**	**71**	-48
Above Normal (25%)	-83	-352	-516	-82	**111**	**104**	-40	-70	**182**	**51**	**43**	-139
Below Normal (6%)	-222	-374	-355	-253	**200**	**81**	**20**	-21	**117**	**41**	**225**	**75**
Dry (13%)	-167	-431	-357	**10**	**380**	**516**	**341**	**198**	**180**	-1	**45**	**23**
Critical (25%)	-55	-143	-164	**21**	**273**	**418**	**363**	**263**	**77**	-349	-41	**87**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-36-12. Old River at Rock Slough, Monthly EC

Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	933	1,195	1,181	916	579	461	426	409	409	896	963	893
20%	867	1,040	1,088	843	505	382	376	398	314	721	859	856
30%	857	921	1,030	804	448	376	371	391	307	697	755	831
40%	853	891	954	750	409	348	357	350	287	554	732	819
50%	813	890	910	728	408	333	356	336	285	507	697	756
60%	698	846	890	620	400	332	347	332	280	367	528	738
70%	675	806	637	486	347	287	327	300	277	282	386	679
80%	560	764	324	370	309	259	306	289	273	248	359	652
90%	282	320	299	319	286	248	271	245	234	242	312	448
Long Term												
Full Simulation Period[a]	710	831	808	644	428	344	346	334	310	525	618	711
Water Year Types[b]												
Wet (31%)	527	691	475	407	323	301	278	276	254	264	319	466
Above Normal (25%)	915	1,036	1,181	639	405	326	356	345	293	238	348	620
Below Normal (6%)	691	891	928	927	400	305	370	395	273	367	528	856
Dry (13%)	684	935	933	704	408	325	379	360	272	572	719	828
Critical (25%)	801	766	802	733	542	410	366	344	398	844	904	821

Alternative 8 (LLT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	873	698	682	778	816	856	766	608	481	485	826	923
20%	795	656	650	759	811	836	744	594	473	417	759	898
30%	751	619	639	755	800	825	721	580	471	397	706	884
40%	742	567	637	749	794	816	701	559	465	369	597	865
50%	680	562	618	736	768	806	656	535	458	356	549	849
60%	473	517	575	724	716	653	392	389	443	343	433	749
70%	469	482	566	691	588	354	344	345	411	334	364	461
80%	433	465	556	662	546	318	302	306	390	311	347	434
90%	384	331	397	346	308	268	219	210	378	298	329	407
Long Term												
Full Simulation Period[a]	619	535	572	662	657	620	533	450	432	379	555	706
Water Year Types[b]												
Wet (31%)	499	392	442	534	412	294	247	266	368	299	333	391
Above Normal (25%)	809	658	656	576	528	432	317	274	475	334	346	461
Below Normal (6%)	467	517	573	662	597	389	392	375	390	311	545	946
Dry (13%)	517	511	581	720	786	841	720	557	448	379	562	877
Critical (25%)	751	623	635	751	814	827	726	598	461	473	814	871

Alternative 8 (LLT) minus Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-60	-497	-499	-138	**237**	**395**	**341**	**199**	**72**	-411	-137	**30**
20%	-73	-383	-439	-84	**307**	**454**	**368**	**196**	**159**	-304	-100	**43**
30%	-107	-302	-390	-48	**353**	**449**	**350**	**189**	**164**	-300	-49	**53**
40%	-111	-324	-317	-1	**385**	**468**	**344**	**209**	**177**	-184	-135	**46**
50%	-133	-328	-292	**8**	**361**	**473**	**300**	**199**	**173**	-151	-148	**93**
60%	-225	-329	-315	**103**	**316**	**321**	**45**	**57**	**163**	-24	-95	**10**
70%	-206	-324	-71	**204**	**241**	**67**	**17**	**46**	**134**	**53**	-23	-218
80%	-127	-299	**232**	**293**	**237**	**59**	-4	**17**	**117**	**63**	-12	-218
90%	**103**	**11**	**98**	**27**	**22**	**21**	-51	-36	**144**	**56**	**17**	-40
Long Term												
Full Simulation Period[a]	-91	-296	-236	**17**	**229**	**276**	**186**	**116**	**122**	-147	-63	-5
Water Year Types[b]												
Wet (31%)	-28	-299	-33	**128**	**90**	-7	-31	-10	**114**	**35**	**15**	-75
Above Normal (25%)	-106	-378	-525	-63	**122**	**106**	-39	-70	**181**	**96**	-2	-159
Below Normal (6%)	-224	-374	-355	-264	**197**	**83**	**21**	-21	**117**	-55	**17**	**90**
Dry (13%)	-167	-425	-352	**17**	**377**	**516**	**341**	**197**	**176**	-193	-157	**49**
Critical (25%)	-50	-143	-167	**19**	**272**	**417**	**360**	**255**	**63**	-371	-90	**50**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-36-13. Old River at Rock Slough, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	933	1,195	1,181	916	579	461	426	409	409	896	963	893
20%	867	1,040	1,088	843	505	382	376	398	314	721	859	856
30%	857	921	1,030	804	448	376	371	391	307	697	755	831
40%	853	891	954	750	409	348	357	350	287	554	732	819
50%	813	890	910	728	408	333	356	336	285	507	697	756
60%	698	846	890	620	400	332	347	332	280	367	528	738
70%	675	806	637	486	347	287	327	300	277	282	386	679
80%	560	764	324	370	309	259	306	289	273	248	359	652
90%	282	320	299	319	286	248	271	245	234	242	312	448
Long Term												
Full Simulation Period[a]	710	831	808	644	428	344	346	334	310	525	618	711
Water Year Types[b]												
Wet (31%)	527	691	475	407	323	301	278	276	254	264	319	466
Above Normal (25%)	915	1,036	1,181	639	405	326	356	345	293	238	348	620
Below Normal (6%)	691	891	928	927	400	305	370	395	273	367	528	856
Dry (13%)	684	935	933	704	408	325	379	360	272	572	719	828
Critical (25%)	801	766	802	733	542	410	366	344	398	844	904	821

Alternative 9 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	666	691	793	851	875	893	731	597	637	895	784	634
20%	598	661	754	816	862	862	720	592	574	643	744	615
30%	551	616	741	770	817	846	621	535	565	628	606	563
40%	531	583	704	729	799	810	598	532	555	623	584	556
50%	529	562	701	713	781	779	547	492	534	591	568	539
60%	487	498	653	704	643	570	363	363	518	564	551	530
70%	447	474	644	665	522	320	320	325	515	542	535	458
80%	408	466	632	649	332	298	296	296	486	532	526	447
90%	373	355	434	337	292	259	219	210	445	512	502	385
Long Term												
Full Simulation Period[a]	503	534	650	673	649	616	487	431	528	618	598	516
Water Year Types[b]												
Wet (31%)	405	411	473	480	369	282	243	257	455	513	458	371
Above Normal (25%)	604	638	751	570	458	391	297	267	559	628	509	455
Below Normal (6%)	487	498	648	654	443	325	363	349	438	526	551	539
Dry (13%)	463	507	675	751	809	816	603	529	509	540	590	553
Critical (25%)	576	618	733	811	864	873	690	576	608	780	762	622

Alternative 9 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-267	-504	-387	-65	**296**	**432**	**305**	**188**	**227**	-1	-179	-260
20%	-269	-378	-334	-27	**357**	**479**	**345**	**194**	**260**	-79	-115	-240
30%	-306	-305	-288	-34	**369**	**470**	**251**	**144**	**258**	-69	-149	-268
40%	-322	-309	-251	-21	**390**	**463**	**241**	**182**	**268**	**69**	-149	-263
50%	-284	-328	-209	-15	**374**	**446**	**191**	**156**	**248**	**84**	-129	-217
60%	-211	-348	-236	**83**	**243**	**238**	**16**	**32**	**238**	**197**	**23**	-208
70%	-228	-332	**7**	**179**	**174**	**32**	-7	**25**	**238**	**261**	**149**	-221
80%	-151	-298	**307**	**279**	**22**	**39**	-10	**7**	**213**	**284**	**167**	-205
90%	**91**	**35**	**135**	**19**	**5**	**11**	-52	-35	**211**	**270**	**191**	-62
Long Term												
Full Simulation Period[a]	-207	-298	-158	**29**	**221**	**272**	**141**	**97**	**219**	**93**	-20	-195
Water Year Types[b]												
Wet (31%)	-121	-280	-2	**73**	**46**	-18	-34	-19	**201**	**249**	**139**	-95
Above Normal (25%)	-311	-399	-430	-69	**52**	**65**	-59	-78	**266**	**390**	**162**	-165
Below Normal (6%)	-204	-394	-279	-272	**42**	**20**	-7	-46	**165**	**160**	**23**	-316
Dry (13%)	-221	-428	-258	**47**	**401**	**491**	**224**	**169**	**237**	-32	-129	-275
Critical (25%)	-224	-149	-69	**79**	**322**	**463**	**324**	**232**	**210**	-64	-142	-199

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-36-14. Old River at Rock Slough, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	964	1,010	1,266	823	622	480	437	403	478	751	724	907
20%	913	941	908	795	548	442	423	384	353	633	670	878
30%	885	788	866	782	446	393	380	380	305	568	655	805
40%	863	677	815	741	403	359	367	369	303	535	627	763
50%	800	630	620	675	386	357	347	361	294	432	592	757
60%	272	316	439	574	367	341	329	337	283	367	426	687
70%	270	283	374	449	348	293	326	319	274	259	360	519
80%	265	267	305	365	311	263	304	281	253	248	347	503
90%	248	226	270	335	286	234	254	219	237	240	317	429
Long Term												
Full Simulation Period[a]	629	602	692	613	426	359	348	337	329	460	526	686
Water Year Types[b]												
Wet (31%)	527	616	445	387	307	312	261	268	255	246	322	433
Above Normal (25%)	943	857	1,351	625	368	293	316	287	253	240	355	477
Below Normal (6%)	269	291	439	900	399	301	353	394	286	374	591	878
Dry (13%)	419	478	610	664	433	337	381	362	287	522	592	799
Critical (25%)	824	652	742	690	545	451	403	382	460	686	692	842

Alternative 1A,1B,1C (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	899	1,048	1,014	934	653	495	419	390	504	894	883	936
20%	879	905	939	823	622	442	372	348	370	609	769	897
30%	840	905	873	795	595	404	345	337	322	506	649	859
40%	798	852	762	784	504	381	316	328	314	421	621	804
50%	786	629	745	769	464	347	316	311	304	387	591	772
60%	766	540	681	658	401	312	314	295	301	306	442	736
70%	737	464	618	605	381	294	299	283	280	287	424	709
80%	716	442	582	466	372	290	257	275	265	277	317	638
90%	542	289	384	378	296	258	224	225	248	261	291	589
Long Term												
Full Simulation Period[a]	754	671	729	691	475	365	325	310	342	465	569	758
Water Year Types[b]												
Wet (31%)	529	562	451	538	390	280	235	238	264	260	320	561
Above Normal (25%)	839	781	1,109	675	498	407	287	273	269	295	371	644
Below Normal (6%)	792	453	681	1,083	633	349	316	283	330	291	442	881
Dry (13%)	834	873	854	725	467	355	369	338	298	468	645	811
Critical (25%)	829	596	708	716	508	427	379	367	473	729	811	894

Alternative 1A,1B,1C (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-65	**38**	-252	**111**	**32**	**16**	-18	-14	**26**	**143**	**158**	**29**
20%	-34	-35	**31**	**28**	**74**	**1**	-51	-36	**16**	-24	**99**	**19**
30%	-45	**116**	**8**	**12**	**149**	**11**	-35	-43	**18**	-62	-6	**54**
40%	-66	**174**	-53	**43**	**101**	**21**	-51	-41	**11**	-114	-6	**41**
50%	-15	-1	**126**	**94**	**78**	-10	-31	-50	**10**	-45	-1	**15**
60%	**494**	**225**	**242**	**84**	**34**	-29	-15	-43	**18**	-60	**16**	**49**
70%	**467**	**181**	**245**	**156**	**33**	**1**	-27	-36	**6**	**28**	**63**	**190**
80%	**451**	**176**	**277**	**101**	**61**	**27**	-47	-6	**12**	**29**	-30	**135**
90%	**294**	**62**	**113**	**43**	**10**	**25**	-30	**6**	**11**	**21**	-26	**160**
Long Term												
Full Simulation Period[a]	**125**	**69**	**37**	**79**	**49**	**6**	-23	-27	**14**	**5**	**43**	**72**
Water Year Types[b]												
Wet (31%)	**2**	-54	**5**	**151**	**83**	-33	-25	-30	**9**	**15**	-3	**128**
Above Normal (25%)	-104	-76	-242	**50**	**130**	**115**	-29	-15	**15**	**54**	**17**	**167**
Below Normal (6%)	**523**	**162**	**242**	**183**	**234**	**48**	-38	-111	**44**	-83	-149	**3**
Dry (13%)	**415**	**395**	**244**	**61**	**35**	**17**	-11	-24	**10**	-54	**53**	**12**
Critical (25%)	**4**	-55	-34	**26**	-37	-24	-24	-15	**13**	**42**	**119**	**52**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-36-15. Old River at Rock Slough, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	964	1,010	1,266	823	622	480	437	403	478	751	724	907
20%	913	941	908	795	548	442	423	384	353	633	670	878
30%	885	788	866	782	446	393	380	380	305	568	655	805
40%	863	677	815	741	403	359	367	369	303	535	627	763
50%	800	630	620	675	386	357	347	361	294	432	592	757
60%	272	316	439	574	367	341	329	337	283	367	426	687
70%	270	283	374	449	348	293	326	319	274	259	360	519
80%	265	267	305	365	311	263	304	281	253	248	347	503
90%	248	226	270	335	286	234	254	219	237	240	317	429
Long Term												
Full Simulation Period[a]	629	602	692	613	426	359	348	337	329	460	526	686
Water Year Types[b]												
Wet (31%)	527	616	445	387	307	312	261	268	255	246	322	433
Above Normal (25%)	943	857	1,351	625	368	293	316	287	253	240	355	477
Below Normal (6%)	269	291	439	900	399	301	353	394	286	374	591	878
Dry (13%)	419	478	610	664	433	337	381	362	287	522	592	799
Critical (25%)	824	652	742	690	545	451	403	382	460	686	692	842

Alternative 2A,2B,2C (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	951	979	1,062	877	660	525	468	416	564	940	888	961
20%	897	624	865	786	510	478	442	393	386	604	733	909
30%	822	504	635	711	507	386	383	381	325	523	687	875
40%	757	476	626	591	457	372	365	369	323	438	626	867
50%	657	457	580	507	413	337	349	352	320	399	592	793
60%	416	425	395	427	368	309	346	343	316	330	567	742
70%	377	417	329	415	342	294	340	339	302	285	440	525
80%	362	405	292	351	323	290	267	305	291	277	352	420
90%	328	292	259	301	296	264	222	210	259	269	304	403
Long Term												
Full Simulation Period[a]	626	533	587	567	441	369	354	341	363	481	586	710
Water Year Types[b]												
Wet (31%)	492	390	421	474	406	283	246	255	271	268	334	381
Above Normal (25%)	840	775	919	633	512	421	306	284	309	303	460	525
Below Normal (6%)	374	414	395	712	444	352	345	374	321	287	439	867
Dry (13%)	461	535	543	442	385	359	429	381	309	461	636	829
Critical (25%)	830	574	660	686	484	429	401	393	509	777	829	919

Alternative 2A,2B,2C (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-13	-31	-204	54	38	45	31	12	86	189	164	54
20%	-16	-317	-43	-9	-38	36	19	10	33	-29	63	31
30%	-63	-285	-231	-72	61	-7	3	1	21	-45	31	70
40%	-106	-202	-189	-150	54	12	-3	0	20	-97	-1	104
50%	-143	-172	-40	-168	27	-21	3	-9	26	-33	0	36
60%	144	109	-44	-147	1	-31	17	6	33	-37	140	55
70%	107	134	-45	-34	-7	1	14	19	28	26	80	6
80%	97	139	-13	-13	12	27	-37	24	38	30	5	-83
90%	79	66	-12	-34	10	30	-32	-9	22	29	-14	-26
Long Term												
Full Simulation Period[a]	-3	-69	-105	-46	15	10	6	4	34	21	60	24
Water Year Types[b]												
Wet (31%)	-35	-226	-24	87	99	-29	-15	-12	16	22	11	-52
Above Normal (25%)	-103	-82	-432	8	144	128	-10	-3	56	63	105	48
Below Normal (6%)	105	123	-44	-188	45	51	-9	-20	35	-87	-152	-11
Dry (13%)	42	57	-67	-221	-47	21	48	19	21	-62	43	30
Critical (25%)	5	-78	-82	-4	-62	-23	-3	12	50	90	137	77

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-36-16. Old River at Rock Slough, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	964	1,010	1,266	823	622	480	437	403	478	751	724	907
20%	913	941	908	795	548	442	423	384	353	633	670	878
30%	885	788	866	782	446	393	380	380	305	568	655	805
40%	863	677	815	741	403	359	367	369	303	535	627	763
50%	800	630	620	675	386	357	347	361	294	432	592	757
60%	272	316	439	574	367	341	329	337	283	367	426	687
70%	270	283	374	449	348	293	326	319	274	259	360	519
80%	265	267	305	365	311	263	304	281	253	248	347	503
90%	248	226	270	335	286	234	254	219	237	240	317	429
Long Term												
Full Simulation Period[a]	629	602	692	613	426	359	348	337	329	460	526	686
Water Year Types[b]												
Wet (31%)	527	616	445	387	307	312	261	268	255	246	322	433
Above Normal (25%)	943	857	1,351	625	368	293	316	287	253	240	355	477
Below Normal (6%)	269	291	439	900	399	301	353	394	286	374	591	878
Dry (13%)	419	478	610	664	433	337	381	362	287	522	592	799
Critical (25%)	824	652	742	690	545	451	403	382	460	686	692	842

Alternative 3 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	943	1,052	937	983	676	541	394	372	544	895	881	932
20%	915	947	883	835	507	433	384	339	371	614	777	907
30%	891	884	823	790	487	401	367	332	325	530	661	856
40%	829	846	807	770	451	378	324	323	317	414	622	817
50%	813	592	726	668	418	367	319	301	311	393	585	777
60%	780	543	666	576	393	320	313	282	303	309	457	737
70%	727	503	595	506	362	316	290	277	271	299	416	710
80%	722	398	485	402	355	310	275	270	245	286	315	668
90%	555	316	325	307	303	257	226	233	243	264	297	603
Long Term												
Full Simulation Period[a]	773	678	685	658	453	377	326	306	344	471	571	764
Water Year Types[b]												
Wet (31%)	523	594	400	370	339	298	241	240	259	261	316	576
Above Normal (25%)	920	782	954	613	358	369	322	276	261	307	386	670
Below Normal (6%)	709	398	725	1,138	507	394	322	282	331	292	439	907
Dry (13%)	846	887	837	754	466	349	328	307	292	477	642	809
Critical (25%)	867	592	675	732	560	461	394	376	490	735	819	889

Alternative 3 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-21	42	-329	160	54	61	-43	-32	65	144	157	26
20%	3	6	-25	40	-41	-9	-39	-45	17	-19	107	29
30%	6	95	-42	8	41	8	-13	-48	21	-37	6	51
40%	-35	169	-7	30	47	19	-43	-46	14	-121	-5	55
50%	13	-38	106	-7	32	9	-28	-60	17	-39	-7	20
60%	509	227	227	2	25	-20	-16	-55	20	-58	31	50
70%	457	220	221	58	13	22	-36	-43	-3	40	56	191
80%	457	131	180	37	44	47	-29	-11	-8	38	-32	165
90%	306	90	55	-28	17	24	-28	14	6	23	-21	174
Long Term												
Full Simulation Period[a]	144	76	-7	45	27	18	-22	-31	16	11	45	79
Water Year Types[b]												
Wet (31%)	-4	-22	-46	-17	33	-14	-20	-27	4	15	-7	143
Above Normal (25%)	-23	-74	-397	-11	-10	77	6	-12	8	67	31	194
Below Normal (6%)	440	107	286	238	108	93	-31	-111	45	-82	-153	29
Dry (13%)	426	409	227	90	34	12	-53	-55	5	-45	50	10
Critical (25%)	43	-59	-67	42	15	10	-9	-6	31	49	127	47

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-36-17. Old River at Rock Slough, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	964	1,010	1,266	823	622	480	437	403	478	751	724	907
20%	913	941	908	795	548	442	423	384	353	633	670	878
30%	885	788	866	782	446	393	380	380	305	568	655	805
40%	863	677	815	741	403	359	367	369	303	535	627	763
50%	800	630	620	675	386	357	347	361	294	432	592	757
60%	272	316	439	574	367	341	329	337	283	367	426	687
70%	270	283	374	449	348	293	326	319	274	259	360	519
80%	265	267	305	365	311	263	304	281	253	248	347	503
90%	248	226	270	335	286	234	254	219	237	240	317	429
Long Term												
Full Simulation Period[a]	629	602	692	613	426	359	348	337	329	460	526	686
Water Year Types[b]												
Wet (31%)	527	616	445	387	307	312	261	268	255	246	322	433
Above Normal (25%)	943	857	1,351	625	368	293	316	287	253	240	355	477
Below Normal (6%)	269	291	439	900	399	301	353	394	286	374	591	878
Dry (13%)	419	478	610	664	433	337	381	362	287	522	592	799
Critical (25%)	824	652	742	690	545	451	403	382	460	686	692	842

Alternative 4 H1 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	916	942	1,085	905	513	524	445	417	552	925	885	956
20%	895	610	826	732	491	464	430	393	381	581	719	906
30%	858	575	719	666	478	389	379	381	339	538	669	891
40%	827	526	681	600	433	373	366	362	327	422	631	873
50%	786	488	632	579	410	343	358	341	325	403	616	852
60%	739	470	622	450	399	311	350	336	316	362	601	818
70%	713	461	583	411	370	306	337	329	303	295	482	757
80%	642	454	308	353	328	299	267	304	291	276	346	723
90%	549	337	284	309	297	269	221	210	250	268	321	632
Long Term												
Full Simulation Period[a]	749	559	658	577	422	372	348	338	362	482	598	801
Water Year Types[b]												
Wet (31%)	505	385	334	343	352	288	246	255	270	270	365	646
Above Normal (25%)	828	776	927	511	418	419	314	284	309	319	479	760
Below Normal (6%)	803	402	682	1,017	480	391	370	379	351	298	436	864
Dry (13%)	780	632	815	639	425	362	399	369	307	474	642	827
Critical (25%)	878	587	679	652	464	424	397	392	503	759	830	907

Alternative 4 H1 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-48	-68	-181	**82**	-109	**45**	**8**	**14**	**74**	**174**	**161**	**49**
20%	-18	-331	-82	-63	-56	**22**	**8**	**10**	**28**	-52	**49**	**28**
30%	-27	-213	-146	-116	**32**	-4	-1	**1**	**35**	-30	**13**	**86**
40%	-37	-151	-133	-141	**30**	**14**	-1	-7	**24**	-113	**4**	**110**
50%	-14	-142	**12**	-95	**24**	-14	**11**	-20	**32**	-29	**24**	**95**
60%	**468**	**154**	**183**	-124	**32**	-30	**21**	-1	**33**	-4	**175**	**130**
70%	**444**	**178**	**209**	-37	**21**	**12**	**11**	**9**	**29**	**36**	**122**	**238**
80%	**377**	**187**	**3**	-11	**17**	**36**	-37	**23**	**38**	**29**	-2	**220**
90%	**301**	**110**	**14**	-26	**11**	**35**	-33	-9	**13**	**28**	**4**	**203**
Long Term												
Full Simulation Period[a]	**121**	-43	-34	-36	-4	**13**	0	**1**	**33**	**22**	**72**	**115**
Water Year Types[b]												
Wet (31%)	-22	-232	-111	-44	**46**	-24	-14	-13	**16**	**25**	**43**	**213**
Above Normal (25%)	-115	-81	-424	-113	**50**	**126**	-2	-3	**56**	**79**	**124**	**284**
Below Normal (6%)	**534**	**111**	**243**	**116**	**80**	**90**	**16**	-14	**65**	-76	-155	-14
Dry (13%)	**360**	**154**	**205**	-24	-7	**25**	**19**	**7**	**19**	-48	**50**	**28**
Critical (25%)	**54**	-65	-63	-38	-81	-27	-7	**11**	**43**	**72**	**138**	**64**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-36-18. Old River at Rock Slough, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	964	1,010	1,266	823	622	480	437	403	478	751	724	907
20%	913	941	908	795	548	442	423	384	353	633	670	878
30%	885	788	866	782	446	393	380	380	305	568	655	805
40%	863	677	815	741	403	359	367	369	303	535	627	763
50%	800	630	620	675	386	357	347	361	294	432	592	757
60%	272	316	439	574	367	341	329	337	283	367	426	687
70%	270	283	374	449	348	293	326	319	274	259	360	519
80%	265	267	305	365	311	263	304	281	253	248	347	503
90%	248	226	270	335	286	234	254	219	237	240	317	429
Long Term												
Full Simulation Period[a]	629	602	692	613	426	359	348	337	329	460	526	686
Water Year Types[b]												
Wet (31%)	527	616	445	387	307	312	261	268	255	246	322	433
Above Normal (25%)	943	857	1,351	625	368	293	316	287	253	240	355	477
Below Normal (6%)	269	291	439	900	399	301	353	394	286	374	591	878
Dry (13%)	419	478	610	664	433	337	381	362	287	522	592	799
Critical (25%)	824	652	742	690	545	451	403	382	460	686	692	842

Alternative 4 H2 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	943	881	1,076	780	576	504	458	454	544	859	866	936
20%	922	741	787	755	484	485	446	408	418	592	715	915
30%	819	560	727	678	480	416	437	397	370	468	701	865
40%	810	527	624	625	476	399	409	387	338	445	668	860
50%	793	500	607	594	433	354	383	373	333	400	553	811
60%	759	485	580	438	381	316	360	359	328	346	446	777
70%	724	462	578	408	367	309	343	349	325	305	400	749
80%	673	439	305	363	328	299	301	305	293	286	345	683
90%	505	350	268	310	296	265	221	210	255	279	314	606
Long Term												
Full Simulation Period[a]	751	564	648	557	427	378	370	355	373	469	574	780
Water Year Types[b]												
Wet (31%)	568	391	342	350	343	285	250	260	291	289	328	574
Above Normal (25%)	851	790	964	513	463	428	329	292	313	314	377	708
Below Normal (6%)	754	741	752	625	445	386	360	408	324	286	446	865
Dry (13%)	729	585	753	622	440	377	452	398	331	435	633	834
Critical (25%)	876	560	663	675	467	433	418	410	506	739	828	914

Alternative 4 H2 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-21	-129	-190	-43	-46	**25**	**22**	**51**	**66**	**108**	**141**	**30**
20%	**9**	-200	-120	-40	-63	**43**	**23**	**24**	**65**	-41	**45**	**38**
30%	-66	-228	-139	-104	**34**	**23**	**58**	**17**	**66**	-100	**46**	**60**
40%	-54	-151	-191	-116	**73**	**39**	**42**	**18**	**35**	-90	**41**	**97**
50%	-7	-130	-13	-81	**47**	-4	**37**	**13**	**39**	-32	-39	**54**
60%	**488**	**169**	**141**	-136	**13**	-25	**31**	**21**	**45**	-21	**20**	**90**
70%	**454**	**179**	**204**	-41	**18**	**16**	**17**	**29**	**50**	**46**	**39**	**230**
80%	**408**	**172**	**0**	-2	**17**	**36**	-3	**24**	**40**	**38**	-2	**180**
90%	**257**	**124**	-3	-25	**10**	**31**	-32	-8	**18**	**38**	-3	**178**
Long Term												
Full Simulation Period[a]	**122**	-38	-44	-56	**1**	**19**	**22**	**18**	**44**	**9**	**48**	**95**
Water Year Types[b]												
Wet (31%)	**41**	-225	-103	-37	**36**	-27	-10	-8	**36**	**44**	**6**	**140**
Above Normal (25%)	-92	-67	-387	-112	**95**	**135**	**13**	**4**	**60**	**74**	**22**	**232**
Below Normal (6%)	**485**	**450**	**313**	-275	**46**	**84**	**6**	**14**	**38**	-88	-146	-12
Dry (13%)	**309**	**107**	**143**	-42	**7**	**40**	**72**	**36**	**43**	-87	**41**	**35**
Critical (25%)	**51**	-91	-79	-15	-78	-19	**15**	**29**	**47**	**53**	**136**	**72**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-36-19. Old River at Rock Slough, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	964	1,010	1,266	823	622	480	437	403	478	751	724	907
20%	913	941	908	795	548	442	423	384	353	633	670	878
30%	885	788	866	782	446	393	380	380	305	568	655	805
40%	863	677	815	741	403	359	367	369	303	535	627	763
50%	800	630	620	675	386	357	347	361	294	432	592	757
60%	272	316	439	574	367	341	329	337	283	367	426	687
70%	270	283	374	449	348	293	326	319	274	259	360	519
80%	265	267	305	365	311	263	304	281	253	248	347	503
90%	248	226	270	335	286	234	254	219	237	240	317	429
Long Term												
Full Simulation Period[a]	629	602	692	613	426	359	348	337	329	460	526	686
Water Year Types[b]												
Wet (31%)	527	616	445	387	307	312	261	268	255	246	322	433
Above Normal (25%)	943	857	1,351	625	368	293	316	287	253	240	355	477
Below Normal (6%)	269	291	439	900	399	301	353	394	286	374	591	878
Dry (13%)	419	478	610	664	433	337	381	362	287	522	592	799
Critical (25%)	824	652	742	690	545	451	403	382	460	686	692	842

Alternative 4 H3 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	942	886	1,083	659	512	505	445	415	561	940	896	972
20%	896	734	881	587	476	457	435	393	386	591	747	915
30%	835	568	621	569	431	382	392	380	325	522	664	886
40%	723	501	571	540	400	371	380	371	323	438	617	833
50%	656	464	456	429	386	339	363	352	317	392	599	780
60%	413	433	352	422	368	311	350	341	313	363	583	739
70%	382	418	301	376	338	298	342	332	302	283	477	548
80%	376	405	291	348	327	294	267	304	291	276	349	429
90%	318	286	259	304	299	263	221	210	250	268	305	414
Long Term												
Full Simulation Period[a]	621	541	567	480	401	365	352	340	360	480	595	714
Water Year Types[b]												
Wet (31%)	477	388	336	344	353	286	246	255	270	268	354	406
Above Normal (25%)	868	794	945	511	424	420	314	284	309	320	483	521
Below Normal (6%)	376	416	353	552	441	388	349	375	313	282	440	868
Dry (13%)	464	538	544	444	384	355	408	371	304	471	632	829
Critical (25%)	811	589	662	592	435	411	407	398	506	762	835	916

Alternative 4 H3 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-21	-124	-183	-164	-110	**25**	**8**	**12**	**83**	**189**	**172**	**65**
20%	-17	-207	-27	-207	-72	**15**	**12**	**9**	**32**	-41	**77**	**37**
30%	-50	-220	-245	-213	-15	-11	**12**	0	**21**	-45	**9**	**81**
40%	-140	-176	-244	-201	-3	**12**	**13**	**2**	**20**	-97	-10	**70**
50%	-144	-166	-164	-246	**1**	-18	**16**	-9	**23**	-40	**7**	**23**
60%	**141**	**118**	-87	-152	**1**	-30	**21**	**4**	**30**	-4	**157**	**52**
70%	**112**	**135**	-72	-73	-10	**4**	**16**	**12**	**28**	**24**	**116**	**29**
80%	**111**	**139**	-14	-16	**16**	**31**	-37	**23**	**37**	**29**	**1**	-74
90%	**70**	**60**	-11	-31	**13**	**30**	-33	-9	**13**	**28**	-12	-15
Long Term												
Full Simulation Period[a]	-8	-62	-125	-132	-26	**7**	**4**	**2**	**31**	**21**	**69**	**29**
Water Year Types[b]												
Wet (31%)	-50	-228	-110	-44	**46**	-26	-15	-13	**16**	**22**	**31**	-27
Above Normal (25%)	-75	-63	-406	-113	**56**	**127**	-2	-3	**56**	**79**	**128**	**45**
Below Normal (6%)	**107**	**125**	-86	-348	**42**	**87**	-5	-19	**27**	-92	-151	-10
Dry (13%)	**44**	**60**	-66	-220	-49	**18**	**28**	**9**	**16**	-51	**40**	**30**
Critical (25%)	-13	-63	-80	-98	-111	-40	**4**	**16**	**47**	**75**	**143**	**73**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-36-20. Old River at Rock Slough, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	964	1,010	1,266	823	622	480	437	403	478	751	724	907
20%	913	941	908	795	548	442	423	384	353	633	670	878
30%	885	788	866	782	446	393	380	380	305	568	655	805
40%	863	677	815	741	403	359	367	369	303	535	627	763
50%	800	630	620	675	386	357	347	361	294	432	592	757
60%	272	316	439	574	367	341	329	337	283	367	426	687
70%	270	283	374	449	348	293	326	319	274	259	360	519
80%	265	267	305	365	311	263	304	281	253	248	347	503
90%	248	226	270	335	286	234	254	219	237	240	317	429
Long Term												
Full Simulation Period[a]	629	602	692	613	426	359	348	337	329	460	526	686
Water Year Types[b]												
Wet (31%)	527	616	445	387	307	312	261	268	255	246	322	433
Above Normal (25%)	943	857	1,351	625	368	293	316	287	253	240	355	477
Below Normal (6%)	269	291	439	900	399	301	353	394	286	374	591	878
Dry (13%)	419	478	610	664	433	337	381	362	287	522	592	799
Critical (25%)	824	652	742	690	545	451	403	382	460	686	692	842

Alternative 4 H4 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	943	903	1,005	804	620	581	475	460	549	905	866	969
20%	881	647	747	660	530	476	452	422	419	564	713	917
30%	816	519	600	603	483	421	442	400	377	457	675	864
40%	808	472	577	500	446	387	423	386	353	427	650	829
50%	719	434	476	450	396	344	390	373	336	372	524	802
60%	419	429	326	429	365	313	359	358	332	346	438	783
70%	384	416	298	406	345	304	346	348	327	312	411	503
80%	354	406	278	345	323	290	302	304	293	295	345	446
90%	317	295	262	304	298	263	221	210	255	279	314	420
Long Term												
Full Simulation Period[a]	632	529	544	516	432	384	374	357	377	469	566	713
Water Year Types[b]												
Wet (31%)	538	374	337	382	358	284	250	260	291	292	338	403
Above Normal (25%)	897	797	927	513	441	428	329	292	313	314	377	487
Below Normal (6%)	354	409	376	660	446	387	359	406	369	298	414	877
Dry (13%)	460	519	508	431	386	361	454	403	331	411	600	857
Critical (25%)	796	577	620	664	521	465	430	414	510	752	829	902

Alternative 4 H4 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-21	-107	-261	-20	-2	**102**	**38**	**57**	**71**	**154**	**142**	**62**
20%	-31	-294	-160	-135	-18	**34**	**29**	**39**	**65**	-69	**43**	**39**
30%	-69	-269	-266	-179	**37**	**28**	**62**	**20**	**72**	-110	**20**	**59**
40%	-56	-205	-238	-241	**43**	**28**	**56**	**17**	**50**	-108	**24**	**66**
50%	-81	-196	-144	-224	**10**	-13	**43**	**12**	**43**	-60	-68	**45**
60%	**148**	**113**	-114	-145	-2	-28	**30**	**21**	**49**	-21	**11**	**95**
70%	**114**	**133**	-75	-43	-3	**11**	**20**	**29**	**53**	**53**	**51**	-16
80%	**89**	**139**	-27	-19	**13**	**27**	-2	**23**	**40**	**48**	-2	-57
90%	**68**	**69**	-8	-32	**13**	**29**	-33	-8	**18**	**38**	-3	-9
Long Term												
Full Simulation Period[a]	**4**	-74	-148	-97	**6**	**25**	**26**	**20**	**48**	**9**	**40**	**27**
Water Year Types[b]												
Wet (31%)	**11**	-242	-108	-5	**52**	-28	-11	-8	**36**	**46**	**16**	-30
Above Normal (25%)	-46	-60	-423	-112	**73**	**135**	**13**	**4**	**60**	**74**	**22**	**11**
Below Normal (6%)	**85**	**118**	-63	-240	**47**	**86**	**5**	**13**	**83**	-76	-177	0
Dry (13%)	**40**	**41**	-102	-233	-47	**23**	**74**	**41**	**44**	-111	**7**	**58**
Critical (25%)	-28	-75	-122	-26	-24	**14**	**26**	**32**	**50**	**66**	**137**	**60**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-36-21. Old River at Rock Slough, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	964	1,010	1,266	823	622	480	437	403	478	751	724	907
20%	913	941	908	795	548	442	423	384	353	633	670	878
30%	885	788	866	782	446	393	380	380	305	568	655	805
40%	863	677	815	741	403	359	367	369	303	535	627	763
50%	800	630	620	675	386	357	347	361	294	432	592	757
60%	272	316	439	574	367	341	329	337	283	367	426	687
70%	270	283	374	449	348	293	326	319	274	259	360	519
80%	265	267	305	365	311	263	304	281	253	248	347	503
90%	248	226	270	335	286	234	254	219	237	240	317	429
Long Term												
Full Simulation Period[a]	629	602	692	613	426	359	348	337	329	460	526	686
Water Year Types[b]												
Wet (31%)	527	616	445	387	307	312	261	268	255	246	322	433
Above Normal (25%)	943	857	1,351	625	368	293	316	287	253	240	355	477
Below Normal (6%)	269	291	439	900	399	301	353	394	286	374	591	878
Dry (13%)	419	478	610	664	433	337	381	362	287	522	592	799
Critical (25%)	824	652	742	690	545	451	403	382	460	686	692	842

Alternative 5 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	940	1,079	1,047	833	664	500	420	412	506	910	873	969
20%	878	906	814	813	505	485	367	384	362	657	745	885
30%	841	804	682	778	458	386	363	373	319	594	711	866
40%	793	523	673	708	424	367	343	364	315	435	678	855
50%	737	496	518	612	410	337	338	335	299	395	655	801
60%	327	419	391	529	364	331	334	319	287	360	555	716
70%	316	406	376	449	343	312	320	314	276	311	529	637
80%	307	383	287	341	322	282	300	285	252	273	358	478
90%	303	272	264	310	316	247	238	217	248	263	331	383
Long Term												
Full Simulation Period[a]	612	621	583	617	439	360	336	331	337	490	617	724
Water Year Types[b]												
Wet (31%)	502	676	396	440	332	304	255	268	254	272	415	468
Above Normal (25%)	835	943	1,089	501	356	299	313	287	265	284	422	491
Below Normal (6%)	307	404	409	808	423	331	367	400	300	362	663	860
Dry (13%)	439	528	520	739	495	359	350	352	296	495	640	829
Critical (25%)	809	565	616	671	518	434	392	369	473	767	830	911

Alternative 5 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-24	**69**	-219	**10**	**42**	**20**	-17	**9**	**28**	**159**	**149**	**62**
20%	-35	-35	-94	**18**	-43	**43**	-56	**1**	**8**	**24**	**75**	**7**
30%	-44	**16**	-184	-4	**12**	-7	-17	-7	**14**	**26**	**55**	**61**
40%	-71	-154	-142	-33	**21**	**8**	-24	-5	**13**	-100	**52**	**92**
50%	-63	-134	-102	-63	**24**	-20	-9	-26	**5**	-37	**63**	**44**
60%	**55**	**103**	-48	-45	-3	-9	**5**	-18	**4**	-6	**129**	**29**
70%	**46**	**123**	**2**	0	-5	**18**	-7	-6	**1**	**52**	**169**	**118**
80%	**42**	**116**	-18	-24	**11**	**19**	-3	**3**	-2	**25**	**11**	-25
90%	**55**	**46**	-7	-26	**30**	**14**	-16	-1	**11**	**23**	**14**	-46
Long Term												
Full Simulation Period[a]	-17	**18**	-109	**5**	**13**	**1**	-12	-6	**8**	**30**	**91**	**39**
Water Year Types[b]												
Wet (31%)	-25	**59**	-49	**53**	**25**	-8	-6	**0**	-1	**26**	**93**	**35**
Above Normal (25%)	-107	**86**	-262	-124	-12	**6**	-3	0	**12**	**44**	**67**	**14**
Below Normal (6%)	**38**	**114**	-30	-92	**24**	**30**	**13**	**7**	**14**	-12	**71**	-17
Dry (13%)	**20**	**50**	-90	**75**	**62**	**22**	-30	-10	**8**	-27	**47**	**30**
Critical (25%)	-15	-86	-126	-19	-27	-17	-11	-12	**13**	**81**	**138**	**69**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-36-22. Old River at Rock Slough, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	964	1,010	1,266	823	622	480	437	403	478	751	724	907
20%	913	941	908	795	548	442	423	384	353	633	670	878
30%	885	788	866	782	446	393	380	380	305	568	655	805
40%	863	677	815	741	403	359	367	369	303	535	627	763
50%	800	630	620	675	386	357	347	361	294	432	592	757
60%	272	316	439	574	367	341	329	337	283	367	426	687
70%	270	283	374	449	348	293	326	319	274	259	360	519
80%	265	267	305	365	311	263	304	281	253	248	347	503
90%	248	226	270	335	286	234	254	219	237	240	317	429
Long Term												
Full Simulation Period[a]	629	602	692	613	426	359	348	337	329	460	526	686
Water Year Types[b]												
Wet (31%)	527	616	445	387	307	312	261	268	255	246	322	433
Above Normal (25%)	943	857	1,351	625	368	293	316	287	253	240	355	477
Below Normal (6%)	269	291	439	900	399	301	353	394	286	374	591	878
Dry (13%)	419	478	610	664	433	337	381	362	287	522	592	799
Critical (25%)	824	652	742	690	545	451	403	382	460	686	692	842

Alternative 6A,6B,6C (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	577	625	654	791	821	862	778	616	503	591	696	625
20%	547	581	642	758	816	848	770	610	487	575	543	535
30%	538	555	630	751	809	837	726	600	480	533	532	522
40%	534	545	627	746	797	834	693	573	477	467	503	509
50%	524	536	608	738	795	808	660	540	471	441	475	492
60%	485	526	582	729	705	611	380	395	462	413	450	487
70%	482	491	571	723	607	319	345	349	428	404	440	481
80%	443	477	564	716	403	292	305	310	384	369	431	467
90%	388	336	398	374	297	266	221	216	371	347	403	434
Long Term												
Full Simulation Period[a]	490	507	566	678	654	617	536	459	447	470	507	505
Water Year Types[b]												
Wet (31%)	398	378	441	549	406	281	249	270	365	431	411	404
Above Normal (25%)	579	610	653	627	499	412	316	282	480	543	508	487
Below Normal (6%)	485	526	582	716	534	337	380	379	384	330	399	466
Dry (13%)	473	499	579	732	801	858	730	566	449	393	449	502
Critical (25%)	544	570	619	750	819	830	731	612	510	560	650	604

Alternative 6A,6B,6C (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-387	-385	-612	-32	200	382	341	212	25	-160	-28	-282
20%	-366	-359	-266	-37	268	406	347	227	133	-58	-127	-343
30%	-347	-233	-236	-31	363	444	346	219	175	-35	-124	-283
40%	-329	-132	-188	5	393	475	326	204	174	-68	-123	-254
50%	-276	-93	-11	64	409	450	314	179	178	9	-117	-265
60%	213	211	143	155	337	270	51	58	179	47	24	-200
70%	212	208	197	275	258	25	18	30	153	145	80	-38
80%	178	211	259	352	92	29	2	29	131	122	84	-36
90%	139	110	127	39	12	32	-33	-2	134	107	86	5
Long Term												
Full Simulation Period[a]	-138	-96	-126	65	227	258	188	122	118	10	-19	-180
Water Year Types[b]												
Wet (31%)	-129	-238	-5	162	100	-31	-12	2	110	185	89	-29
Above Normal (25%)	-364	-247	-698	2	131	119	0	-6	227	303	153	10
Below Normal (6%)	216	235	143	-184	135	36	26	-15	98	-44	-192	-412
Dry (13%)	54	21	-31	68	369	520	349	204	162	-129	-143	-297
Critical (25%)	-281	-81	-123	60	274	379	328	230	50	-126	-42	-238

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-36-23. Old River at Rock Slough, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	964	1,010	1,266	823	622	480	437	403	478	751	724	907
20%	913	941	908	795	548	442	423	384	353	633	670	878
30%	885	788	866	782	446	393	380	380	305	568	655	805
40%	863	677	815	741	403	359	367	369	303	535	627	763
50%	800	630	620	675	386	357	347	361	294	432	592	757
60%	272	316	439	574	367	341	329	337	283	367	426	687
70%	270	283	374	449	348	293	326	319	274	259	360	519
80%	265	267	305	365	311	263	304	281	253	248	347	503
90%	248	226	270	335	286	234	254	219	237	240	317	429
Long Term												
Full Simulation Period[a]	629	602	692	613	426	359	348	337	329	460	526	686
Water Year Types[b]												
Wet (31%)	527	616	445	387	307	312	261	268	255	246	322	433
Above Normal (25%)	943	857	1,351	625	368	293	316	287	253	240	355	477
Below Normal (6%)	269	291	439	900	399	301	353	394	286	374	591	878
Dry (13%)	419	478	610	664	433	337	381	362	287	522	592	799
Critical (25%)	824	652	742	690	545	451	403	382	460	686	692	842

Alternative 7 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	863	709	679	765	819	857	767	613	484	597	904	925
20%	772	633	655	758	810	835	748	598	477	506	892	915
30%	752	606	640	752	801	828	721	588	471	486	812	896
40%	748	563	630	738	782	820	701	559	471	443	798	880
50%	694	560	618	723	780	807	661	538	466	419	728	838
60%	478	517	573	710	691	648	391	389	462	401	482	794
70%	467	483	567	696	606	353	343	345	429	296	444	494
80%	431	465	559	673	552	318	302	306	390	292	391	470
90%	382	330	395	343	307	268	220	210	381	273	357	431
Long Term												
Full Simulation Period[a]	620	536	572	661	659	620	534	454	437	428	654	719
Water Year Types[b]												
Wet (31%)	497	388	441	540	421	294	247	266	368	277	390	418
Above Normal (25%)	832	684	664	558	516	430	316	274	475	289	391	481
Below Normal (6%)	469	517	573	673	601	386	391	374	390	408	753	931
Dry (13%)	517	504	576	714	788	841	720	559	451	571	764	851
Critical (25%)	746	623	638	753	815	828	729	607	475	495	863	908

Alternative 7 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-100	-301	-587	-59	**197**	**377**	**330**	**210**	**6**	-154	**179**	**19**
20%	-140	-308	-253	-37	**263**	**393**	**325**	**215**	**123**	-127	**222**	**37**
30%	-133	-182	-226	-30	**355**	**434**	**341**	**208**	**167**	-82	**156**	**91**
40%	-116	-114	-185	-3	**379**	**460**	**333**	**190**	**168**	-91	**172**	**118**
50%	-106	-70	-1	**48**	**394**	**450**	**315**	**178**	**173**	-13	**136**	**81**
60%	**206**	**202**	**133**	**136**	**324**	**307**	**62**	**52**	**179**	**35**	**56**	**106**
70%	**197**	**201**	**193**	**247**	**257**	**59**	**17**	**26**	**155**	**37**	**83**	-25
80%	**166**	**198**	**254**	**309**	**241**	**55**	-2	**25**	**137**	**44**	**43**	-33
90%	**134**	**104**	**125**	**8**	**22**	**35**	-34	-9	**143**	**33**	**40**	**2**
Long Term												
Full Simulation Period[a]	-9	-67	-120	**48**	**233**	**261**	**186**	**116**	**108**	-32	**128**	**34**
Water Year Types[b]												
Wet (31%)	-30	-228	-5	**153**	**114**	-19	-14	-1	**114**	**31**	**68**	-15
Above Normal (25%)	-111	-173	-687	-67	**148**	**137**	0	-13	**222**	**48**	**36**	**4**
Below Normal (6%)	**200**	**226**	**133**	-227	**201**	**84**	**37**	-19	**104**	**34**	**161**	**53**
Dry (13%)	**97**	**26**	-34	**50**	**356**	**504**	**340**	**197**	**164**	**49**	**171**	**52**
Critical (25%)	-78	-28	-104	**63**	**270**	**376**	**326**	**225**	**16**	-191	**172**	**66**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-36-24. Old River at Rock Slough, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	964	1,010	1,266	823	622	480	437	403	478	751	724	907
20%	913	941	908	795	548	442	423	384	353	633	670	878
30%	885	788	866	782	446	393	380	380	305	568	655	805
40%	863	677	815	741	403	359	367	369	303	535	627	763
50%	800	630	620	675	386	357	347	361	294	432	592	757
60%	272	316	439	574	367	341	329	337	283	367	426	687
70%	270	283	374	449	348	293	326	319	274	259	360	519
80%	265	267	305	365	311	263	304	281	253	248	347	503
90%	248	226	270	335	286	234	254	219	237	240	317	429
Long Term												
Full Simulation Period[a]	629	602	692	613	426	359	348	337	329	460	526	686
Water Year Types[b]												
Wet (31%)	527	616	445	387	307	312	261	268	255	246	322	433
Above Normal (25%)	943	857	1,351	625	368	293	316	287	253	240	355	477
Below Normal (6%)	269	291	439	900	399	301	353	394	286	374	591	878
Dry (13%)	419	478	610	664	433	337	381	362	287	522	592	799
Critical (25%)	824	652	742	690	545	451	403	382	460	686	692	842

Alternative 8 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	873	698	682	778	816	856	766	608	481	485	826	923
20%	795	656	650	759	811	836	744	594	473	417	759	898
30%	751	619	639	755	800	825	721	580	471	397	706	884
40%	742	567	637	749	794	816	701	559	465	369	597	865
50%	680	562	618	736	768	806	656	535	458	356	549	849
60%	473	517	575	724	716	653	392	389	443	343	433	749
70%	469	482	566	691	588	354	344	345	411	334	364	461
80%	433	465	556	662	546	318	302	306	390	311	347	434
90%	384	331	397	346	308	268	219	210	378	298	329	407
Long Term												
Full Simulation Period[a]	619	535	572	662	657	620	533	450	432	379	555	706
Water Year Types[b]												
Wet (31%)	499	392	442	534	412	294	247	266	368	299	333	391
Above Normal (25%)	809	658	656	576	528	432	317	274	475	334	346	461
Below Normal (6%)	467	517	573	662	597	389	392	375	390	311	545	946
Dry (13%)	517	511	581	720	786	841	720	557	448	379	562	877
Critical (25%)	751	623	635	751	814	827	726	598	461	473	814	871

Alternative 8 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-91	-312	-584	-45	**194**	**376**	**330**	**205**	**3**	-266	**102**	**17**
20%	-118	-285	-258	-36	**264**	**394**	**321**	**210**	**120**	-216	**89**	**20**
30%	-134	-170	-226	-27	**355**	**432**	**341**	**200**	**167**	-170	**50**	**79**
40%	-122	-110	-178	**8**	**391**	**456**	**334**	**190**	**162**	-165	-30	**103**
50%	-120	-68	-2	**61**	**382**	**449**	**309**	**175**	**165**	-76	-43	**92**
60%	**201**	**202**	**135**	**150**	**349**	**312**	**63**	**51**	**160**	-24	**7**	**61**
70%	**199**	**199**	**192**	**242**	**240**	**61**	**18**	**26**	**137**	**75**	**3**	-58
80%	**168**	**199**	**252**	**298**	**236**	**55**	-2	**25**	**137**	**64**	**0**	-69
90%	**136**	**105**	**127**	**11**	**22**	**35**	-34	-9	**140**	**58**	**12**	-22
Long Term												
Full Simulation Period[a]	-10	-68	-120	**49**	**231**	**261**	**185**	**113**	**103**	-81	**29**	**20**
Water Year Types[b]												
Wet (31%)	-28	-224	-4	**147**	**106**	-18	-14	-1	**114**	**53**	**11**	-43
Above Normal (25%)	-134	-199	-695	-49	**159**	**139**	**1**	-13	**221**	**94**	-9	-16
Below Normal (6%)	**198**	**226**	**134**	-238	**197**	**87**	**38**	-19	**105**	-63	-46	**68**
Dry (13%)	**98**	**33**	-29	**57**	**353**	**504**	**339**	**195**	**160**	-143	-31	**78**
Critical (25%)	-74	-28	-107	**62**	**269**	**375**	**322**	**217**	**1**	-213	**122**	**29**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-36-25. Old River at Rock Slough, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	964	1,010	1,266	823	622	480	437	403	478	751	724	907
20%	913	941	908	795	548	442	423	384	353	633	670	878
30%	885	788	866	782	446	393	380	380	305	568	655	805
40%	863	677	815	741	403	359	367	369	303	535	627	763
50%	800	630	620	675	386	357	347	361	294	432	592	757
60%	272	316	439	574	367	341	329	337	283	367	426	687
70%	270	283	374	449	348	293	326	319	274	259	360	519
80%	265	267	305	365	311	263	304	281	253	248	347	503
90%	248	226	270	335	286	234	254	219	237	240	317	429
Long Term												
Full Simulation Period[a]	629	602	692	613	426	359	348	337	329	460	526	686
Water Year Types[b]												
Wet (31%)	527	616	445	387	307	312	261	268	255	246	322	433
Above Normal (25%)	943	857	1,351	625	368	293	316	287	253	240	355	477
Below Normal (6%)	269	291	439	900	399	301	353	394	286	374	591	878
Dry (13%)	419	478	610	664	433	337	381	362	287	522	592	799
Critical (25%)	824	652	742	690	545	451	403	382	460	686	692	842

Alternative 9 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	666	691	793	851	875	893	731	597	637	895	784	634
20%	598	661	754	816	862	862	720	592	574	643	744	615
30%	551	616	741	770	817	846	621	535	565	628	606	563
40%	531	583	704	729	799	810	598	532	555	623	584	556
50%	529	562	701	713	781	779	547	492	534	591	568	539
60%	487	498	653	704	643	570	363	363	518	564	551	530
70%	447	474	644	665	522	320	320	325	515	542	535	458
80%	408	466	632	649	332	298	296	296	486	532	526	447
90%	373	355	434	337	292	259	219	210	445	512	502	385
Long Term												
Full Simulation Period[a]	503	534	650	673	649	616	487	431	528	618	598	516
Water Year Types[b]												
Wet (31%)	405	411	473	480	369	282	243	257	455	513	458	371
Above Normal (25%)	604	638	751	570	458	391	297	267	559	628	509	455
Below Normal (6%)	487	498	648	654	443	325	363	349	438	526	551	539
Dry (13%)	463	507	675	751	809	816	603	529	509	540	590	553
Critical (25%)	576	618	733	811	864	873	690	576	608	780	762	622

Alternative 9 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-298	-319	-473	28	253	413	294	194	159	144	60	-273
20%	-314	-280	-153	21	314	420	298	208	221	10	74	-262
30%	-334	-172	-125	-12	371	453	242	155	260	60	-49	-242
40%	-332	-94	-111	-12	396	451	230	163	252	88	-43	-207
50%	-271	-67	81	39	396	422	200	131	240	159	-24	-218
60%	215	182	214	130	275	229	34	26	236	197	124	-158
70%	177	191	270	217	173	26	-7	5	241	283	175	-61
80%	143	200	327	284	21	35	-7	15	233	284	179	-56
90%	124	129	164	2	6	25	-35	-9	207	272	185	-44
Long Term												
Full Simulation Period[a]	-126	-69	-42	61	223	258	139	94	199	158	72	-170
Water Year Types[b]												
Wet (31%)	-121	-205	28	93	62	-30	-18	-11	200	267	135	-62
Above Normal (25%)	-338	-219	-600	-54	89	98	-19	-21	306	387	155	-22
Below Normal (6%)	218	207	209	-246	43	24	10	-45	153	152	-41	-338
Dry (13%)	43	30	65	87	377	479	222	167	221	18	-2	-246
Critical (25%)	-248	-34	-9	121	319	421	287	194	148	94	71	-220

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

C.37. Sacramento River downstream of Steamboat Slough Salinity

Table C-37-1. Sacramento River d/s of Steamboat Slough, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	177	177	180	178	177	176	176	176	176	176	176
20%	176	177	176	179	178	177	176	176	176	175	176	176
30%	176	176	176	179	177	177	176	176	176	175	176	176
40%	176	176	176	178	177	177	176	176	176	175	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	176	176	176	178	177	176	176	176	176	175	176	176
70%	175	176	176	177	177	176	176	176	176	175	176	176
80%	175	176	175	177	176	176	176	176	176	175	175	176
90%	175	175	175	177	176	176	175	175	176	175	175	175
Long Term												
Full Simulation Period[a]	176	176	176	178	177	176	176	176	176	175	176	176
Water Year Types[b]												
Wet (31%)	175	177	176	178	177	176	176	176	176	175	176	175
Above Normal (25%)	176	175	179	179	177	176	176	176	176	175	176	176
Below Normal (6%)	176	176	176	185	181	176	176	176	176	175	176	176
Dry (13%)	176	176	176	178	177	176	176	176	176	175	175	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	178	177	180	178	177	176	176	176	176	176	176
20%	176	177	177	179	178	177	176	176	176	176	176	176
30%	176	176	176	179	177	177	176	176	176	175	176	176
40%	176	176	176	178	177	177	176	176	176	175	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	175	176	176	178	177	176	176	176	176	175	176	176
70%	175	176	176	177	177	176	176	176	176	175	176	175
80%	175	175	176	177	176	176	176	176	176	175	175	175
90%	175	175	175	177	176	176	175	176	176	175	175	175
Long Term												
Full Simulation Period[a]	176	176	176	178	177	176	176	176	176	175	176	176
Water Year Types[b]												
Wet (31%)	175	177	176	177	177	176	176	176	176	175	176	175
Above Normal (25%)	176	176	179	179	177	176	176	176	176	175	176	175
Below Normal (6%)	176	175	175	185	182	176	176	176	176	175	176	176
Dry (13%)	176	177	176	178	177	176	176	176	176	175	176	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

No Action Alternative (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	1	0	0	0	0	0	0	0	0	0	0
20%	0	0	1	1	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	-1	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]												
Wet (31%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (25%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (6%)	0	0	0	0	1	0	0	0	0	0	0	0
Dry (13%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (25%)	0	0	0	0	0	0	0	0	0	0	0	0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

Table C-37-2. Sacramento River d/s of Steamboat Slough, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	177	177	180	178	177	176	176	176	176	176	176
20%	176	177	176	179	178	177	176	176	176	175	176	176
30%	176	176	176	179	177	177	176	176	176	175	176	176
40%	176	176	176	178	177	177	176	176	176	175	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	176	176	176	178	177	176	176	176	176	175	176	176
70%	175	176	176	177	177	176	176	176	176	175	176	176
80%	175	176	175	177	176	176	176	176	176	175	175	176
90%	175	175	175	177	176	176	175	175	176	175	175	175
Long Term												
Full Simulation Period[a]	176	176	176	178	177	176	176	176	176	175	176	176
Water Year Types[b]												
Wet (31%)	175	177	176	178	177	176	176	176	176	175	176	175
Above Normal (25%)	176	175	179	179	177	176	176	176	176	175	176	176
Below Normal (6%)	176	176	176	185	181	176	176	176	176	175	176	176
Dry (13%)	176	176	176	178	177	176	176	176	176	175	175	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 1A,1B,1C (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	178	178	180	178	177	176	176	176	176	176	176
20%	176	176	177	179	177	177	176	176	176	176	176	176
30%	176	176	176	179	177	177	176	176	176	176	176	176
40%	176	176	176	179	177	176	176	176	176	176	176	176
50%	176	176	176	178	177	176	176	176	176	176	176	176
60%	176	176	176	178	177	176	176	176	176	176	176	176
70%	175	176	176	178	177	176	176	176	176	175	176	176
80%	175	176	176	177	176	176	176	176	176	175	176	176
90%	175	176	175	177	176	176	175	176	176	175	176	176
Long Term												
Full Simulation Period[a]	176	176	176	179	177	177	176	176	176	176	176	176
Water Year Types[b]												
Wet (31%)	176	177	176	178	177	176	176	176	176	176	176	176
Above Normal (25%)	176	176	178	179	177	176	176	176	176	175	176	176
Below Normal (6%)	175	176	175	185	183	176	176	176	176	176	176	176
Dry (13%)	176	177	176	178	177	176	176	176	176	176	176	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 1A,1B,1C (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	1	0	0	0	0	0	0	0	0	0	0
20%	0	-1	1	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]												
Wet (31%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (25%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (6%)	0	0	0	0	2	0	0	0	0	0	0	0
Dry (13%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (25%)	0	0	0	0	0	0	0	0	0	0	0	0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-37-3. Sacramento River d/s of Steamboat Slough, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	177	177	180	178	177	176	176	176	176	176	176
20%	176	177	176	179	178	177	176	176	176	175	176	176
30%	176	176	176	179	177	177	176	176	176	175	176	176
40%	176	176	176	178	177	177	176	176	176	175	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	176	176	176	178	177	176	176	176	176	175	176	176
70%	175	176	176	177	177	176	176	176	176	175	176	176
80%	175	176	175	177	176	176	176	176	176	175	175	176
90%	175	175	175	177	176	176	175	175	176	175	175	175
Long Term												
Full Simulation Period[a]	176	176	176	178	177	176	176	176	176	175	176	176
Water Year Types[b]												
Wet (31%)	175	177	176	178	177	176	176	176	176	175	176	175
Above Normal (25%)	176	175	179	179	177	176	176	176	176	175	176	176
Below Normal (6%)	176	176	176	185	181	176	176	176	176	175	176	176
Dry (13%)	176	176	176	178	177	176	176	176	176	175	175	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 2A,2B,2C (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	178	177	180	178	177	176	176	176	176	176	176
20%	176	178	177	179	178	177	176	176	176	176	176	176
30%	176	176	176	178	177	177	176	176	176	176	176	176
40%	176	176	176	178	177	177	176	176	176	176	176	176
50%	176	176	176	178	177	176	176	176	176	176	176	176
60%	176	176	176	178	177	176	176	176	176	175	176	176
70%	176	176	176	177	177	176	176	176	176	175	176	175
80%	175	176	175	177	176	176	176	176	176	175	176	175
90%	175	175	175	177	176	176	175	175	175	175	176	175
Long Term												
Full Simulation Period[a]	176	176	176	178	177	177	176	176	176	176	176	176
Water Year Types[b]												
Wet (31%)	176	177	176	178	177	176	176	176	176	175	176	175
Above Normal (25%)	176	176	179	179	177	176	176	176	176	175	176	175
Below Normal (6%)	176	176	175	185	183	176	176	176	176	176	176	176
Dry (13%)	176	177	176	178	177	176	176	176	176	176	176	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 2A,2B,2C (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	1	0	0	0	0	0	0	0	0	0	0
20%	0	1	1	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]												
Wet (31%)	0	1	0	0	0	0	0	0	0	0	0	0
Above Normal (25%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (6%)	0	0	0	0	2	0	0	0	0	0	0	0
Dry (13%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (25%)	0	0	0	0	0	0	0	0	0	0	0	0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-37-4. Sacramento River d/s of Steamboat Slough, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	177	177	180	178	177	176	176	176	176	176	176
20%	176	177	176	179	178	177	176	176	176	175	176	176
30%	176	176	176	179	177	177	176	176	176	175	176	176
40%	176	176	176	178	177	177	176	176	176	175	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	176	176	176	178	177	176	176	176	176	175	176	176
70%	175	176	176	177	177	176	176	176	176	175	176	176
80%	175	176	175	177	176	176	176	176	176	175	175	176
90%	175	175	175	177	176	176	175	175	176	175	175	175
Long Term												
Full Simulation Period[a]	176	176	176	178	177	176	176	176	176	175	176	176
Water Year Types[b]												
Wet (31%)	175	177	176	178	177	176	176	176	176	175	176	175
Above Normal (25%)	176	175	179	179	177	176	176	176	176	175	176	176
Below Normal (6%)	176	176	176	185	181	176	176	176	176	175	176	176
Dry (13%)	176	176	176	178	177	176	176	176	176	175	175	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 3 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	178	178	180	178	177	176	176	176	176	176	176
20%	176	177	177	179	178	177	176	176	176	176	176	176
30%	176	176	176	179	178	177	176	176	176	176	176	176
40%	176	176	176	178	177	176	176	176	176	176	176	176
50%	176	176	176	178	177	176	176	176	176	176	176	176
60%	176	176	176	178	177	176	176	176	176	176	176	176
70%	175	176	176	177	177	176	176	176	176	175	176	176
80%	175	176	176	177	176	176	176	176	176	175	176	176
90%	175	176	175	177	176	176	175	176	176	175	176	176
Long Term												
Full Simulation Period[a]	176	176	176	179	177	177	176	176	176	176	176	176
Water Year Types[b]												
Wet (31%)	176	177	176	178	177	176	176	176	176	176	176	176
Above Normal (25%)	176	176	179	179	177	176	176	176	176	176	176	176
Below Normal (6%)	175	176	175	185	183	176	176	176	176	176	176	176
Dry (13%)	176	177	176	178	177	176	176	176	176	176	176	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 3 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	1	0	0	0	0	0	0	0	0	0	0
20%	0	0	1	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]												
Wet (31%)	0	1	0	0	0	0	0	0	0	0	0	0
Above Normal (25%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (6%)	0	0	0	0	2	0	0	0	0	1	0	0
Dry (13%)	0	1	0	0	0	0	0	0	0	0	0	0
Critical (25%)	0	0	0	0	0	0	0	0	0	0	0	0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-37-5. Sacramento River d/s of Steamboat Slough, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	177	177	180	178	177	176	176	176	176	176	176
20%	176	177	176	179	178	177	176	176	176	175	176	176
30%	176	176	176	179	177	177	176	176	176	175	176	176
40%	176	176	176	178	177	177	176	176	176	175	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	176	176	176	178	177	176	176	176	176	175	176	176
70%	175	176	176	177	177	176	176	176	176	175	176	176
80%	175	176	175	177	176	176	176	176	176	175	175	176
90%	175	175	175	177	176	176	175	175	176	175	175	175
Long Term												
Full Simulation Period[a]	176	176	176	178	177	176	176	176	176	175	176	176
Water Year Types[b]												
Wet (31%)	175	177	176	178	177	176	176	176	176	175	176	175
Above Normal (25%)	176	175	179	179	177	176	176	176	176	175	176	176
Below Normal (6%)	176	176	176	185	181	176	176	176	176	175	176	176
Dry (13%)	176	176	176	178	177	176	176	176	176	175	175	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 4 H1 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	178	177	180	178	177	176	176	176	176	176	176
20%	176	177	177	179	178	177	176	176	176	176	176	176
30%	176	176	176	179	177	177	176	176	176	176	176	176
40%	176	176	176	178	177	177	176	176	176	176	176	176
50%	176	176	176	178	177	176	176	176	176	176	176	176
60%	176	176	176	178	177	176	176	176	176	175	176	176
70%	176	176	176	177	177	176	176	176	176	175	176	176
80%	175	176	175	177	176	176	176	176	176	175	176	176
90%	175	176	175	177	176	176	175	175	176	175	176	175
Long Term												
Full Simulation Period[a]	176	176	176	178	177	177	176	176	176	176	176	176
Water Year Types[b]												
Wet (31%)	176	177	176	178	177	176	176	176	176	175	176	176
Above Normal (25%)	176	176	179	179	177	176	176	176	176	175	176	176
Below Normal (6%)	176	176	175	185	183	176	176	176	176	176	176	176
Dry (13%)	176	177	176	178	177	176	176	176	176	176	176	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 4 H1 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	1	0	0	0	0	0	0	0	0	0	0
20%	0	0	1	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]												
Wet (31%)	0	1	0	0	0	0	0	0	0	0	0	0
Above Normal (25%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (6%)	0	0	0	0	2	0	0	0	0	0	0	0
Dry (13%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (25%)	0	0	0	0	0	0	0	0	0	0	0	0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-37-6. Sacramento River d/s of Steamboat Slough, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	177	177	180	178	177	176	176	176	176	176	176
20%	176	177	176	179	178	177	176	176	176	175	176	176
30%	176	176	176	179	177	177	176	176	176	175	176	176
40%	176	176	176	178	177	177	176	176	176	175	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	176	176	176	178	177	176	176	176	176	175	176	176
70%	175	176	176	177	177	176	176	176	176	175	176	176
80%	175	176	175	177	176	176	176	176	176	175	175	176
90%	175	175	175	177	176	176	175	175	176	175	175	175
Long Term												
Full Simulation Period[a]	176	176	176	178	177	176	176	176	176	175	176	176
Water Year Types[b]												
Wet (31%)	175	177	176	178	177	176	176	176	176	175	176	175
Above Normal (25%)	176	175	179	179	177	176	176	176	176	175	176	176
Below Normal (6%)	176	176	176	185	181	176	176	176	176	175	176	176
Dry (13%)	176	176	176	178	177	176	176	176	176	175	175	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 4 H2 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	178	177	180	178	177	176	176	176	176	176	176
20%	176	177	177	179	178	177	176	176	176	176	176	176
30%	176	176	176	178	177	177	176	176	176	176	176	176
40%	176	176	176	178	177	177	176	176	176	176	176	176
50%	176	176	176	178	177	176	176	176	176	176	176	176
60%	175	176	176	178	177	176	176	176	176	176	176	176
70%	175	176	176	177	177	176	176	176	176	176	176	176
80%	175	176	176	177	177	176	176	175	176	176	176	176
90%	175	176	175	177	176	176	175	175	176	175	176	176
Long Term												
Full Simulation Period[a]	176	176	176	178	177	177	176	176	176	176	176	176
Water Year Types[b]												
Wet (31%)	176	177	176	178	177	176	176	176	176	176	176	176
Above Normal (25%)	176	176	178	179	177	176	175	176	176	176	176	176
Below Normal (6%)	176	176	176	185	183	176	176	176	176	176	176	176
Dry (13%)	176	177	176	178	177	176	176	176	176	176	176	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 4 H2 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	1	0	0	0	0	0	0	0	0	0	0
20%	0	0	1	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]												
Wet (31%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (25%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (6%)	0	0	0	0	1	0	0	0	0	0	0	0
Dry (13%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (25%)	0	0	0	-1	0	0	0	0	0	0	0	0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-37-7. Sacramento River d/s of Steamboat Slough, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	177	177	180	178	177	176	176	176	176	176	176
20%	176	177	176	179	178	177	176	176	176	175	176	176
30%	176	176	176	179	177	177	176	176	176	175	176	176
40%	176	176	176	178	177	177	176	176	176	175	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	176	176	176	178	177	176	176	176	176	175	176	176
70%	175	176	176	177	177	176	176	176	176	175	176	176
80%	175	176	175	177	176	176	176	176	176	175	175	176
90%	175	175	175	177	176	176	175	175	176	175	175	175
Long Term												
Full Simulation Period[a]	176	176	176	178	177	176	176	176	176	175	176	176
Water Year Types[b]												
Wet (31%)	175	177	176	178	177	176	176	176	176	175	176	175
Above Normal (25%)	176	175	179	179	177	176	176	176	176	175	176	176
Below Normal (6%)	176	176	176	185	181	176	176	176	176	175	176	176
Dry (13%)	176	176	176	178	177	176	176	176	176	175	175	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 4 H3 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	178	177	180	178	177	176	176	176	176	176	176
20%	176	177	177	179	178	177	176	176	176	176	176	176
30%	176	176	176	178	177	177	176	176	176	176	176	176
40%	176	176	176	178	177	177	176	176	176	176	176	176
50%	176	176	176	178	177	176	176	176	176	176	176	176
60%	176	176	176	178	177	176	176	176	176	175	176	176
70%	176	176	176	177	177	176	176	176	176	175	176	175
80%	175	176	176	177	176	176	176	176	176	175	176	175
90%	175	175	175	177	176	176	175	175	176	175	176	175
Long Term												
Full Simulation Period[a]	176	176	176	178	177	177	176	176	176	176	176	176
Water Year Types[b]												
Wet (31%)	176	177	176	178	177	176	176	176	176	175	176	175
Above Normal (25%)	176	176	178	179	177	176	176	176	176	175	176	175
Below Normal (6%)	176	176	176	185	183	176	176	176	176	176	176	176
Dry (13%)	176	177	176	178	177	176	176	176	176	176	176	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 4 H3 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	1	0	0	0	0	0	0	0	0	0	0
20%	0	1	1	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]												
Wet (31%)	0	1	0	0	0	0	0	0	0	0	0	0
Above Normal (25%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (6%)	0	0	0	0	2	0	0	0	0	0	0	0
Dry (13%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (25%)	0	0	0	0	0	0	0	0	0	0	0	0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-37-8. Sacramento River d/s of Steamboat Slough, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	177	177	180	178	177	176	176	176	176	176	176
20%	176	177	176	179	178	177	176	176	176	175	176	176
30%	176	176	176	179	177	177	176	176	176	175	176	176
40%	176	176	176	178	177	177	176	176	176	175	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	176	176	176	178	177	176	176	176	176	175	176	176
70%	175	176	176	177	177	176	176	176	176	175	176	176
80%	175	176	175	177	176	176	176	176	176	175	175	176
90%	175	175	175	177	176	176	175	175	176	175	175	175
Long Term												
Full Simulation Period[a]	176	176	176	178	177	176	176	176	176	175	176	176
Water Year Types[b]												
Wet (31%)	175	177	176	178	177	176	176	176	176	175	176	175
Above Normal (25%)	176	175	179	179	177	176	176	176	176	175	176	176
Below Normal (6%)	176	176	176	185	181	176	176	176	176	175	176	176
Dry (13%)	176	176	176	178	177	176	176	176	176	175	175	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 4 H4 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	178	177	180	178	177	176	176	176	176	176	176
20%	176	177	177	179	178	177	176	176	176	176	176	176
30%	176	176	176	179	177	177	176	176	176	176	176	176
40%	176	176	176	179	177	177	176	176	176	176	176	176
50%	176	176	176	178	177	176	176	176	176	176	176	176
60%	176	176	176	178	177	176	176	176	176	176	176	175
70%	175	176	176	178	177	176	176	176	176	176	176	175
80%	175	176	176	177	176	176	176	175	176	176	176	175
90%	175	175	175	177	176	176	175	175	176	175	176	175
Long Term												
Full Simulation Period[a]	176	176	176	179	177	177	176	176	176	176	176	176
Water Year Types[b]												
Wet (31%)	175	177	176	178	177	176	176	176	176	176	176	175
Above Normal (25%)	176	176	179	179	177	176	175	176	176	176	176	175
Below Normal (6%)	176	176	175	185	183	176	176	176	176	176	176	176
Dry (13%)	176	177	176	178	177	176	176	176	176	176	176	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 4 H4 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	1	0	0	0	0	0	0	0	0	0	0
20%	0	1	1	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]												
Wet (31%)	0	1	0	0	0	0	0	0	0	0	0	0
Above Normal (25%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (6%)	0	0	0	0	2	0	0	0	0	0	0	0
Dry (13%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (25%)	0	0	0	0	0	0	0	0	0	0	0	0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-37-9. Sacramento River d/s of Steamboat Slough, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	177	177	180	178	177	176	176	176	176	176	176
20%	176	177	176	179	178	177	176	176	176	175	176	176
30%	176	176	176	179	177	177	176	176	176	175	176	176
40%	176	176	176	178	177	177	176	176	176	175	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	176	176	176	178	177	176	176	176	176	175	176	176
70%	175	176	176	177	177	176	176	176	176	175	176	176
80%	175	176	175	177	176	176	176	176	176	175	175	176
90%	175	175	175	177	176	176	175	175	176	175	175	175
Long Term												
Full Simulation Period[a]	176	176	176	178	177	176	176	176	176	175	176	176
Water Year Types[b]												
Wet (31%)	175	177	176	178	177	176	176	176	176	175	176	175
Above Normal (25%)	176	175	179	179	177	176	176	176	176	175	176	176
Below Normal (6%)	176	176	176	185	181	176	176	176	176	175	176	176
Dry (13%)	176	176	176	178	177	176	176	176	176	175	175	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 5 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	178	178	180	178	177	176	176	176	176	176	176
20%	176	177	177	179	178	177	176	176	176	176	176	176
30%	176	176	176	179	177	177	176	176	176	176	176	176
40%	176	176	176	178	177	177	176	176	176	176	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	176	176	176	178	177	176	176	176	176	175	176	176
70%	176	176	176	177	177	176	176	176	176	175	176	176
80%	176	176	176	177	176	176	176	176	176	175	176	175
90%	175	175	175	177	176	176	175	176	176	175	176	175
Long Term												
Full Simulation Period[a]	176	176	176	178	177	177	176	176	176	176	176	176
Water Year Types[b]												
Wet (31%)	176	177	176	178	177	176	176	176	176	176	176	175
Above Normal (25%)	176	176	179	179	177	176	176	176	176	175	176	176
Below Normal (6%)	176	176	175	185	183	176	176	176	176	175	176	176
Dry (13%)	176	177	176	178	177	176	176	176	176	176	176	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 5 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	1	0	0	0	0	0	0	0	0	0	0
20%	0	0	1	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]												
Wet (31%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (25%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (6%)	0	0	0	0	2	0	0	0	0	0	0	0
Dry (13%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (25%)	0	0	0	0	0	0	0	0	0	0	0	0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-37-10. Sacramento River d/s of Steamboat Slough, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	177	177	180	178	177	176	176	176	176	176	176
20%	176	177	176	179	178	177	176	176	176	175	176	176
30%	176	176	176	179	177	177	176	176	176	175	176	176
40%	176	176	176	178	177	177	176	176	176	175	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	176	176	176	178	177	176	176	176	176	175	176	176
70%	175	176	176	177	177	176	176	176	176	175	176	176
80%	175	176	175	177	176	176	176	176	176	175	175	176
90%	175	175	175	177	176	176	175	175	176	175	175	175
Long Term												
Full Simulation Period[a]	176	176	176	178	177	176	176	176	176	175	176	176
Water Year Types[b]												
Wet (31%)	175	177	176	178	177	176	176	176	176	175	176	175
Above Normal (25%)	176	175	179	179	177	176	176	176	176	175	176	176
Below Normal (6%)	176	176	176	185	181	176	176	176	176	175	176	176
Dry (13%)	176	176	176	178	177	176	176	176	176	175	175	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 6A,6B,6C (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	178	177	180	178	177	176	176	176	176	176	176
20%	176	177	177	179	178	177	176	176	176	176	176	176
30%	176	176	176	179	178	177	176	176	176	176	176	176
40%	176	176	176	179	177	177	176	176	176	176	176	176
50%	176	176	176	178	177	176	176	176	176	176	176	176
60%	176	176	176	178	177	176	176	176	176	176	176	176
70%	176	176	176	178	177	176	176	176	176	176	176	176
80%	175	175	176	177	176	176	176	176	176	176	176	175
90%	175	175	176	177	176	176	175	176	176	176	176	175
Long Term												
Full Simulation Period[a]	176	176	176	179	177	177	176	176	176	176	176	176
Water Year Types[b]												
Wet (31%)	176	177	176	178	177	176	176	176	176	176	176	175
Above Normal (25%)	176	176	179	179	177	176	176	176	176	176	176	176
Below Normal (6%)	176	176	176	185	183	176	176	176	176	176	176	176
Dry (13%)	176	177	176	178	177	176	176	176	176	176	176	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 6A,6B,6C (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	1	0	0	0	0	0	0	0	0	0	0
20%	0	0	1	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]												
Wet (31%)	0	1	0	0	0	0	0	0	0	0	0	0
Above Normal (25%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (6%)	0	0	0	0	1	0	0	0	0	0	0	0
Dry (13%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (25%)	0	0	0	0	0	0	0	0	0	0	0	0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-37-11. Sacramento River d/s of Steamboat Slough, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	177	177	180	178	177	176	176	176	176	176	176
20%	176	177	176	179	178	177	176	176	176	175	176	176
30%	176	176	176	179	177	177	176	176	176	175	176	176
40%	176	176	176	178	177	177	176	176	176	175	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	176	176	176	178	177	176	176	176	176	175	176	176
70%	175	176	176	177	177	176	176	176	176	175	176	176
80%	175	176	175	177	176	176	176	176	176	175	175	176
90%	175	175	175	177	176	176	175	175	176	175	175	175
Long Term												
Full Simulation Period[a]	176	176	176	178	177	176	176	176	176	175	176	176
Water Year Types[b]												
Wet (31%)	175	177	176	178	177	176	176	176	176	175	176	175
Above Normal (25%)	176	175	179	179	177	176	176	176	176	175	176	176
Below Normal (6%)	176	176	176	185	181	176	176	176	176	175	176	176
Dry (13%)	176	176	176	178	177	176	176	176	176	175	175	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 7 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	178	177	180	178	177	176	176	176	176	176	176
20%	176	177	177	179	178	177	176	176	176	176	176	176
30%	176	176	176	179	177	177	176	176	176	176	176	176
40%	176	176	176	179	177	177	176	176	176	176	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	176	176	176	178	177	176	176	176	176	175	176	176
70%	175	176	176	178	177	176	176	176	176	175	176	175
80%	175	175	176	177	176	176	176	176	176	175	176	175
90%	175	175	175	177	176	176	175	176	176	175	176	175
Long Term												
Full Simulation Period[a]	176	176	176	179	177	177	176	176	176	176	176	176
Water Year Types[b]												
Wet (31%)	176	177	176	178	177	176	176	176	176	175	176	175
Above Normal (25%)	176	175	179	179	177	176	176	176	176	175	176	175
Below Normal (6%)	176	176	176	185	183	176	176	176	176	175	176	176
Dry (13%)	176	177	176	178	177	176	176	176	176	175	176	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 7 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	1	0	0	0	0	0	0	0	0	0	0
20%	0	0	1	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]												
Wet (31%)	0	1	0	0	0	0	0	0	0	0	0	0
Above Normal (25%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (6%)	0	0	0	0	2	0	0	0	0	0	0	0
Dry (13%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (25%)	0	0	0	0	0	0	0	0	0	0	0	0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-37-12. Sacramento River d/s of Steamboat Slough, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	177	177	180	178	177	176	176	176	176	176	176
20%	176	177	176	179	178	177	176	176	176	175	176	176
30%	176	176	176	179	177	177	176	176	176	175	176	176
40%	176	176	176	178	177	177	176	176	176	175	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	176	176	176	178	177	176	176	176	176	175	176	176
70%	175	176	176	177	177	176	176	176	176	175	176	176
80%	175	176	175	177	176	176	176	176	176	175	175	176
90%	175	175	175	177	176	176	175	175	176	175	175	175
Long Term												
Full Simulation Period[a]	176	176	176	178	177	176	176	176	176	175	176	176
Water Year Types[b]												
Wet (31%)	175	177	176	178	177	176	176	176	176	175	176	175
Above Normal (25%)	176	175	179	179	177	176	176	176	176	175	176	176
Below Normal (6%)	176	176	176	185	181	176	176	176	176	175	176	176
Dry (13%)	176	176	176	178	177	176	176	176	176	175	175	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 8 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	178	177	180	178	177	176	176	176	176	176	176
20%	176	177	177	179	178	177	176	176	176	176	176	176
30%	176	176	176	179	178	177	176	176	176	176	176	176
40%	176	176	176	178	177	176	176	176	176	176	176	176
50%	176	176	176	178	177	176	176	176	176	176	176	176
60%	176	176	176	178	177	176	176	176	176	176	176	176
70%	176	176	176	178	176	176	176	176	176	176	176	176
80%	176	176	176	177	176	176	176	176	176	176	176	175
90%	175	175	176	177	176	176	175	175	176	176	176	175
Long Term												
Full Simulation Period[a]	176	176	176	178	177	176	176	176	176	176	176	176
Water Year Types[b]												
Wet (31%)	176	177	176	178	177	176	176	176	176	176	176	175
Above Normal (25%)	176	176	179	179	177	176	176	176	176	176	176	176
Below Normal (6%)	176	176	176	184	181	176	176	176	176	176	176	176
Dry (13%)	176	177	176	178	177	176	176	176	176	176	176	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 8 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	1	0	0	0	0	0	0	0	0	0	0
20%	0	0	1	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]												
Wet (31%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (25%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (6%)	0	0	0	-1	0	0	0	0	0	0	0	0
Dry (13%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (25%)	0	0	0	0	0	0	0	0	0	0	0	0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-37-13. Sacramento River d/s of Steamboat Slough, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	177	177	180	178	177	176	176	176	176	176	176
20%	176	177	176	179	178	177	176	176	176	175	176	176
30%	176	176	176	179	177	177	176	176	176	175	176	176
40%	176	176	176	178	177	177	176	176	176	175	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	176	176	176	178	177	176	176	176	176	175	176	176
70%	175	176	176	177	177	176	176	176	176	175	176	176
80%	175	176	175	177	176	176	176	176	176	175	175	176
90%	175	175	175	177	176	176	175	175	176	175	175	175
Long Term												
Full Simulation Period[a]	176	176	176	178	177	176	176	176	176	175	176	176
Water Year Types[b]												
Wet (31%)	175	177	176	178	177	176	176	176	176	175	176	175
Above Normal (25%)	176	175	179	179	177	176	176	176	176	175	176	176
Below Normal (6%)	176	176	176	185	181	176	176	176	176	175	176	176
Dry (13%)	176	176	176	178	177	176	176	176	176	175	175	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 9 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	178	177	180	178	177	176	176	176	176	176	176
20%	176	177	177	179	178	177	176	176	176	176	176	176
30%	176	176	176	179	177	177	176	176	176	176	176	176
40%	176	176	176	179	177	177	176	176	176	176	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	176	176	176	178	177	176	176	176	176	175	176	176
70%	175	176	176	178	177	176	176	176	176	175	176	175
80%	175	175	175	177	176	176	176	176	176	175	175	175
90%	175	175	175	177	176	176	175	176	176	175	175	175
Long Term												
Full Simulation Period[a]	176	176	176	179	177	177	176	176	176	176	176	176
Water Year Types[b]												
Wet (31%)	175	177	176	178	177	176	176	176	176	176	176	175
Above Normal (25%)	176	175	179	179	177	176	176	176	176	175	176	175
Below Normal (6%)	176	175	175	185	183	176	176	176	176	175	176	176
Dry (13%)	176	177	176	178	177	176	176	176	176	175	176	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 9 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	1	0	0	0	0	0	0	0	0	0	0
20%	0	0	1	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]												
Wet (31%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (25%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (6%)	0	0	0	0	1	0	0	0	0	0	0	0
Dry (13%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (25%)	0	0	0	0	0	0	0	0	0	0	0	0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-37-14. Sacramento River d/s of Steamboat Slough, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	178	177	180	178	177	176	176	176	176	176	176
20%	176	177	177	179	178	177	176	176	176	176	176	176
30%	176	176	176	179	177	177	176	176	176	175	176	176
40%	176	176	176	178	177	177	176	176	176	175	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	175	176	176	178	177	176	176	176	176	175	176	176
70%	175	176	176	177	177	176	176	176	176	175	176	175
80%	175	175	176	177	176	176	176	176	176	175	175	175
90%	175	175	175	177	176	176	175	176	176	175	175	175
Long Term												
Full Simulation Period[a]	176	176	176	178	177	176	176	176	176	175	176	176
Water Year Types[b]												
Wet (31%)	175	177	176	177	177	176	176	176	176	175	176	175
Above Normal (25%)	176	176	179	179	177	176	176	176	176	175	176	175
Below Normal (6%)	176	175	175	185	182	176	176	176	176	175	176	176
Dry (13%)	176	177	176	178	177	176	176	176	176	175	176	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 1A,1B,1C (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	178	178	180	178	177	176	176	176	176	176	176
20%	176	176	177	179	177	177	176	176	176	176	176	176
30%	176	176	176	179	177	177	176	176	176	176	176	176
40%	176	176	176	179	177	176	176	176	176	176	176	176
50%	176	176	176	178	177	176	176	176	176	176	176	176
60%	176	176	176	178	177	176	176	176	176	176	176	176
70%	175	176	176	178	177	176	176	176	176	175	176	176
80%	175	176	176	177	176	176	176	176	176	175	176	176
90%	175	176	175	177	176	176	175	176	176	175	176	176
Long Term												
Full Simulation Period[a]	176	176	176	179	177	177	176	176	176	176	176	176
Water Year Types[b]												
Wet (31%)	176	177	176	178	177	176	176	176	176	176	176	176
Above Normal (25%)	176	176	178	179	177	176	176	176	176	175	176	176
Below Normal (6%)	175	176	175	185	183	176	176	176	176	176	176	176
Dry (13%)	176	177	176	178	177	176	176	176	176	176	176	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 1A,1B,1C (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	1	0	0	0	0	0	0	0	0	0	0
20%	0	-1	0	0	-1	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	1	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]												
Wet (31%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (25%)	0	0	0	1	0	0	0	0	0	0	0	0
Below Normal (6%)	0	0	0	0	1	0	0	0	0	0	0	0
Dry (13%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (25%)	0	0	0	0	0	0	0	0	0	0	0	0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-37-15. Sacramento River d/s of Steamboat Slough, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	178	177	180	178	177	176	176	176	176	176	176
20%	176	177	177	179	178	177	176	176	176	176	176	176
30%	176	176	176	179	177	177	176	176	176	175	176	176
40%	176	176	176	178	177	177	176	176	176	175	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	175	176	176	178	177	176	176	176	176	175	176	176
70%	175	176	176	177	177	176	176	176	176	175	176	175
80%	175	175	176	177	176	176	176	176	176	175	175	175
90%	175	175	175	177	176	176	175	176	176	175	175	175
Long Term												
Full Simulation Period[a]	176	176	176	178	177	176	176	176	176	175	176	176
Water Year Types[b]												
Wet (31%)	175	177	176	177	177	176	176	176	176	175	176	175
Above Normal (25%)	176	176	179	179	177	176	176	176	176	175	176	175
Below Normal (6%)	176	175	175	185	182	176	176	176	176	175	176	176
Dry (13%)	176	177	176	178	177	176	176	176	176	175	176	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 2A,2B,2C (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	178	177	180	178	177	176	176	176	176	176	176
20%	176	178	177	179	178	177	176	176	176	176	176	176
30%	176	176	176	178	177	177	176	176	176	176	176	176
40%	176	176	176	178	177	177	176	176	176	176	176	176
50%	176	176	176	178	177	176	176	176	176	176	176	176
60%	176	176	176	178	177	176	176	176	176	175	176	176
70%	176	176	176	177	177	176	176	176	176	175	176	175
80%	175	176	175	177	176	176	176	176	176	175	176	175
90%	175	175	175	177	176	176	175	175	175	175	176	175
Long Term												
Full Simulation Period[a]	176	176	176	178	177	177	176	176	176	176	176	176
Water Year Types[b]												
Wet (31%)	176	177	176	178	177	176	176	176	176	175	176	175
Above Normal (25%)	176	176	179	179	177	176	176	176	176	175	176	175
Below Normal (6%)	176	176	175	185	183	176	176	176	176	176	176	176
Dry (13%)	176	177	176	178	177	176	176	176	176	176	176	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 2A,2B,2C (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	0	1	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]												
Wet (31%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (25%)	0	0	0	1	0	0	0	0	0	0	0	0
Below Normal (6%)	0	0	0	0	1	0	0	0	0	0	0	0
Dry (13%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (25%)	0	0	0	0	0	0	0	0	0	0	0	0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-37-16. Sacramento River d/s of Steamboat Slough, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	178	177	180	178	177	176	176	176	176	176	176
20%	176	177	177	179	178	177	176	176	176	176	176	176
30%	176	176	176	179	177	177	176	176	176	175	176	176
40%	176	176	176	178	177	177	176	176	176	175	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	175	176	176	178	177	176	176	176	176	175	176	176
70%	175	176	176	177	177	176	176	176	176	175	176	175
80%	175	175	176	177	176	176	176	176	176	175	175	175
90%	175	175	175	177	176	176	175	176	176	175	175	175
Long Term												
Full Simulation Period[a]	176	176	176	178	177	176	176	176	176	175	176	176
Water Year Types[b]												
Wet (31%)	175	177	176	177	177	176	176	176	176	175	176	175
Above Normal (25%)	176	176	179	179	177	176	176	176	176	175	176	175
Below Normal (6%)	176	175	175	185	182	176	176	176	176	175	176	176
Dry (13%)	176	177	176	178	177	176	176	176	176	175	176	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 3 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	178	178	180	178	177	176	176	176	176	176	176
20%	176	177	177	179	178	177	176	176	176	176	176	176
30%	176	176	176	179	178	177	176	176	176	176	176	176
40%	176	176	176	178	177	176	176	176	176	176	176	176
50%	176	176	176	178	177	176	176	176	176	176	176	176
60%	176	176	176	178	177	176	176	176	176	176	176	176
70%	175	176	176	177	177	176	176	176	176	175	176	176
80%	175	176	176	177	176	176	176	176	176	175	176	176
90%	175	176	175	177	176	176	175	176	176	175	176	176
Long Term												
Full Simulation Period[a]	176	176	176	179	177	177	176	176	176	176	176	176
Water Year Types[b]												
Wet (31%)	176	177	176	178	177	176	176	176	176	176	176	176
Above Normal (25%)	176	176	179	179	177	176	176	176	176	176	176	176
Below Normal (6%)	175	176	175	185	183	176	176	176	176	176	176	176
Dry (13%)	176	177	176	178	177	176	176	176	176	176	176	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 3 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]												
Wet (31%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (25%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (6%)	0	0	0	1	1	0	0	0	0	0	0	0
Dry (13%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (25%)	0	0	0	0	0	0	0	0	0	0	0	0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-37-17. Sacramento River d/s of Steamboat Slough, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	178	177	180	178	177	176	176	176	176	176	176
20%	176	177	177	179	178	177	176	176	176	176	176	176
30%	176	176	176	179	177	177	176	176	176	175	176	176
40%	176	176	176	178	177	177	176	176	176	175	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	175	176	176	178	177	176	176	176	176	175	176	176
70%	175	176	176	177	177	176	176	176	176	175	176	175
80%	175	175	176	177	176	176	176	176	176	175	175	175
90%	175	175	175	177	176	176	175	176	176	175	175	175
Long Term												
Full Simulation Period[a]	176	176	176	178	177	176	176	176	176	175	176	176
Water Year Types[b]												
Wet (31%)	175	177	176	177	177	176	176	176	176	175	176	175
Above Normal (25%)	176	176	179	179	177	176	176	176	176	175	176	175
Below Normal (6%)	176	175	175	185	182	176	176	176	176	175	176	176
Dry (13%)	176	177	176	178	177	176	176	176	176	175	176	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 4 H1 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	178	177	180	178	177	176	176	176	176	176	176
20%	176	177	177	179	178	177	176	176	176	176	176	176
30%	176	176	176	179	177	177	176	176	176	176	176	176
40%	176	176	176	178	177	177	176	176	176	176	176	176
50%	176	176	176	178	177	176	176	176	176	176	176	176
60%	176	176	176	178	177	176	176	176	176	175	176	176
70%	176	176	176	177	177	176	176	176	176	175	176	176
80%	175	176	175	177	176	176	176	176	176	175	176	176
90%	175	176	175	177	176	176	175	175	176	175	176	175
Long Term												
Full Simulation Period[a]	176	176	176	178	177	177	176	176	176	176	176	176
Water Year Types[b]												
Wet (31%)	176	177	176	178	177	176	176	176	176	175	176	176
Above Normal (25%)	176	176	179	179	177	176	176	176	176	175	176	176
Below Normal (6%)	176	176	175	185	183	176	176	176	176	176	176	176
Dry (13%)	176	177	176	178	177	176	176	176	176	176	176	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 4 H1 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]												
Wet (31%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (25%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (6%)	0	0	0	0	1	0	0	0	0	0	0	0
Dry (13%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (25%)	0	0	0	0	0	0	0	0	0	0	0	0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-37-18. Sacramento River d/s of Steamboat Slough, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	178	177	180	178	177	176	176	176	176	176	176
20%	176	177	177	179	178	177	176	176	176	176	176	176
30%	176	176	176	179	177	177	176	176	176	175	176	176
40%	176	176	176	178	177	177	176	176	176	175	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	175	176	176	178	177	176	176	176	176	175	176	176
70%	175	176	176	177	177	176	176	176	176	175	176	175
80%	175	175	176	177	176	176	176	176	176	175	175	175
90%	175	175	175	177	176	176	175	176	176	175	175	175
Long Term												
Full Simulation Period[a]	176	176	176	178	177	176	176	176	176	175	176	176
Water Year Types[b]												
Wet (31%)	175	177	176	177	177	176	176	176	176	175	176	175
Above Normal (25%)	176	176	179	179	177	176	176	176	176	175	176	175
Below Normal (6%)	176	175	175	185	182	176	176	176	176	175	176	176
Dry (13%)	176	177	176	178	177	176	176	176	176	175	176	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 4 H2 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	178	177	180	178	177	176	176	176	176	176	176
20%	176	177	177	179	178	177	176	176	176	176	176	176
30%	176	176	176	178	177	177	176	176	176	176	176	176
40%	176	176	176	178	177	177	176	176	176	176	176	176
50%	176	176	176	178	177	176	176	176	176	176	176	176
60%	175	176	176	178	177	176	176	176	176	176	176	176
70%	175	176	176	177	177	176	176	176	176	176	176	176
80%	175	176	176	177	177	176	176	175	176	176	176	176
90%	175	176	175	177	176	176	175	175	176	175	176	176
Long Term												
Full Simulation Period[a]	176	176	176	178	177	177	176	176	176	176	176	176
Water Year Types[b]												
Wet (31%)	176	177	176	178	177	176	176	176	176	176	176	176
Above Normal (25%)	176	176	178	179	177	176	175	176	176	176	176	176
Below Normal (6%)	176	176	176	185	183	176	176	176	176	176	176	176
Dry (13%)	176	177	176	178	177	176	176	176	176	176	176	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 4 H2 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]												
Wet (31%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (25%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (6%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry (13%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (25%)	0	0	0	0	0	0	0	0	0	0	0	0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-37-19. Sacramento River d/s of Steamboat Slough, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	178	177	180	178	177	176	176	176	176	176	176
20%	176	177	177	179	178	177	176	176	176	176	176	176
30%	176	176	176	179	177	177	176	176	176	175	176	176
40%	176	176	176	178	177	177	176	176	176	175	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	175	176	176	178	177	176	176	176	176	175	176	176
70%	175	176	176	177	177	176	176	176	176	175	176	175
80%	175	175	176	177	176	176	176	176	176	175	175	175
90%	175	175	175	177	176	176	175	176	176	175	175	175
Long Term												
Full Simulation Period[a]	176	176	176	178	177	176	176	176	176	175	176	176
Water Year Types[b]												
Wet (31%)	175	177	176	177	177	176	176	176	176	175	176	175
Above Normal (25%)	176	176	179	179	177	176	176	176	176	175	176	175
Below Normal (6%)	176	175	175	185	182	176	176	176	176	175	176	176
Dry (13%)	176	177	176	178	177	176	176	176	176	175	176	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 4 H3 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	178	177	180	178	177	176	176	176	176	176	176
20%	176	177	177	179	178	177	176	176	176	176	176	176
30%	176	176	176	178	177	177	176	176	176	176	176	176
40%	176	176	176	178	177	177	176	176	176	176	176	176
50%	176	176	176	178	177	176	176	176	176	176	176	176
60%	176	176	176	178	177	176	176	176	176	175	176	176
70%	176	176	176	177	177	176	176	176	176	175	176	175
80%	175	176	176	177	176	176	176	176	176	175	176	175
90%	175	175	175	177	176	176	175	175	176	175	176	175
Long Term												
Full Simulation Period[a]	176	176	176	178	177	177	176	176	176	176	176	176
Water Year Types[b]												
Wet (31%)	176	177	176	178	177	176	176	176	176	175	176	175
Above Normal (25%)	176	176	178	179	177	176	176	176	176	175	176	175
Below Normal (6%)	176	176	176	185	183	176	176	176	176	176	176	176
Dry (13%)	176	177	176	178	177	176	176	176	176	176	176	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 4 H3 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]												
Wet (31%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (25%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (6%)	0	0	0	0	1	0	0	0	0	0	0	0
Dry (13%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (25%)	0	0	0	0	0	0	0	0	0	0	0	0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-37-20. Sacramento River d/s of Steamboat Slough, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	178	177	180	178	177	176	176	176	176	176	176
20%	176	177	177	179	178	177	176	176	176	176	176	176
30%	176	176	176	179	177	177	176	176	176	175	176	176
40%	176	176	176	178	177	177	176	176	176	175	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	175	176	176	178	177	176	176	176	176	175	176	176
70%	175	176	176	177	177	176	176	176	176	175	176	175
80%	175	175	176	177	176	176	176	176	176	175	175	175
90%	175	175	175	177	176	176	175	176	176	175	175	175
Long Term												
Full Simulation Period[a]	176	176	176	178	177	176	176	176	176	175	176	176
Water Year Types[b]												
Wet (31%)	175	177	176	177	177	176	176	176	176	175	176	175
Above Normal (25%)	176	176	179	179	177	176	176	176	176	175	176	175
Below Normal (6%)	176	175	175	185	182	176	176	176	176	175	176	176
Dry (13%)	176	177	176	178	177	176	176	176	176	175	176	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 4 H4 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	178	177	180	178	177	176	176	176	176	176	176
20%	176	177	177	179	178	177	176	176	176	176	176	176
30%	176	176	176	179	177	177	176	176	176	176	176	176
40%	176	176	176	179	177	177	176	176	176	176	176	176
50%	176	176	176	178	177	176	176	176	176	176	176	176
60%	176	176	176	178	177	176	176	176	176	176	176	175
70%	175	176	176	178	177	176	176	176	176	176	176	175
80%	175	176	176	177	176	176	176	175	176	176	176	175
90%	175	175	175	177	176	176	175	175	176	175	176	175
Long Term												
Full Simulation Period[a]	176	176	176	179	177	177	176	176	176	176	176	176
Water Year Types[b]												
Wet (31%)	175	177	176	178	177	176	176	176	176	176	176	175
Above Normal (25%)	176	176	179	179	177	176	175	176	176	176	176	175
Below Normal (6%)	176	176	175	185	183	176	176	176	176	176	176	176
Dry (13%)	176	177	176	178	177	176	176	176	176	176	176	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 4 H4 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	1	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]												
Wet (31%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (25%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (6%)	0	0	0	0	1	0	0	0	0	0	0	0
Dry (13%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (25%)	0	0	0	0	0	0	0	0	0	0	0	0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-37-21. Sacramento River d/s of Steamboat Slough, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	178	177	180	178	177	176	176	176	176	176	176
20%	176	177	177	179	178	177	176	176	176	176	176	176
30%	176	176	176	179	177	177	176	176	176	175	176	176
40%	176	176	176	178	177	177	176	176	176	175	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	175	176	176	178	177	176	176	176	176	175	176	176
70%	175	176	176	177	177	176	176	176	176	175	176	175
80%	175	175	176	177	176	176	176	176	176	175	175	175
90%	175	175	175	177	176	176	175	176	176	175	175	175
Long Term												
Full Simulation Period[a]	176	176	176	178	177	176	176	176	176	175	176	176
Water Year Types[b]												
Wet (31%)	175	177	176	177	177	176	176	176	176	175	176	175
Above Normal (25%)	176	176	179	179	177	176	176	176	176	175	176	175
Below Normal (6%)	176	175	175	185	182	176	176	176	176	175	176	176
Dry (13%)	176	177	176	178	177	176	176	176	176	175	176	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 5 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	178	178	180	178	177	176	176	176	176	176	176
20%	176	177	177	179	178	177	176	176	176	176	176	176
30%	176	176	176	179	177	177	176	176	176	176	176	176
40%	176	176	176	178	177	177	176	176	176	176	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	176	176	176	178	177	176	176	176	176	175	176	176
70%	176	176	176	177	177	176	176	176	176	175	176	176
80%	176	176	176	177	176	176	176	176	176	175	176	175
90%	175	175	175	177	176	176	175	176	176	175	176	175
Long Term												
Full Simulation Period[a]	176	176	176	178	177	177	176	176	176	176	176	176
Water Year Types[b]												
Wet (31%)	176	177	176	178	177	176	176	176	176	176	176	175
Above Normal (25%)	176	176	179	179	177	176	176	176	176	175	176	176
Below Normal (6%)	176	176	175	185	183	176	176	176	176	175	176	176
Dry (13%)	176	177	176	178	177	176	176	176	176	176	176	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 5 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	-1	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]												
Wet (31%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (25%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (6%)	0	0	0	1	1	0	0	0	0	0	0	0
Dry (13%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (25%)	0	0	0	0	0	0	0	0	0	0	0	0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-37-22. Sacramento River d/s of Steamboat Slough, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	178	177	180	178	177	176	176	176	176	176	176
20%	176	177	177	179	178	177	176	176	176	176	176	176
30%	176	176	176	179	177	177	176	176	176	175	176	176
40%	176	176	176	178	177	177	176	176	176	175	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	175	176	176	178	177	176	176	176	176	175	176	176
70%	175	176	176	177	177	176	176	176	176	175	176	175
80%	175	175	176	177	176	176	176	176	176	175	175	175
90%	175	175	175	177	176	176	175	176	176	175	175	175
Long Term												
Full Simulation Period[a]	176	176	176	178	177	176	176	176	176	175	176	176
Water Year Types[b]												
Wet (31%)	175	177	176	177	177	176	176	176	176	175	176	175
Above Normal (25%)	176	176	179	179	177	176	176	176	176	175	176	175
Below Normal (6%)	176	175	175	185	182	176	176	176	176	175	176	176
Dry (13%)	176	177	176	178	177	176	176	176	176	175	176	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 6A,6B,6C (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	178	177	180	178	177	176	176	176	176	176	176
20%	176	177	177	179	178	177	176	176	176	176	176	176
30%	176	176	176	179	178	177	176	176	176	176	176	176
40%	176	176	176	179	177	177	176	176	176	176	176	176
50%	176	176	176	178	177	176	176	176	176	176	176	176
60%	176	176	176	178	177	176	176	176	176	176	176	176
70%	176	176	176	178	177	176	176	176	176	176	176	176
80%	175	175	176	177	176	176	176	176	176	176	176	175
90%	175	175	176	177	176	176	175	176	176	176	176	175
Long Term												
Full Simulation Period[a]	176	176	176	179	177	177	176	176	176	176	176	176
Water Year Types[b]												
Wet (31%)	176	177	176	178	177	176	176	176	176	176	176	175
Above Normal (25%)	176	176	179	179	177	176	176	176	176	176	176	176
Below Normal (6%)	176	176	176	185	183	176	176	176	176	176	176	176
Dry (13%)	176	177	176	178	177	176	176	176	176	176	176	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 6A,6B,6C (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	1	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]												
Wet (31%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (25%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (6%)	0	0	0	1	0	0	0	0	0	0	0	0
Dry (13%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (25%)	0	0	0	0	0	0	0	0	0	0	0	0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-37-23. Sacramento River d/s of Steamboat Slough, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	178	177	180	178	177	176	176	176	176	176	176
20%	176	177	177	179	178	177	176	176	176	176	176	176
30%	176	176	176	179	177	177	176	176	176	175	176	176
40%	176	176	176	178	177	177	176	176	176	175	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	175	176	176	178	177	176	176	176	176	175	176	176
70%	175	176	176	177	177	176	176	176	176	175	176	175
80%	175	175	176	177	176	176	176	176	176	175	175	175
90%	175	175	175	177	176	176	175	176	176	175	175	175
Long Term												
Full Simulation Period[a]	176	176	176	178	177	176	176	176	176	175	176	176
Water Year Types[b]												
Wet (31%)	175	177	176	177	177	176	176	176	176	175	176	175
Above Normal (25%)	176	176	179	179	177	176	176	176	176	175	176	175
Below Normal (6%)	176	175	175	185	182	176	176	176	176	175	176	176
Dry (13%)	176	177	176	178	177	176	176	176	176	175	176	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 7 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	178	177	180	178	177	176	176	176	176	176	176
20%	176	177	177	179	178	177	176	176	176	176	176	176
30%	176	176	176	179	177	177	176	176	176	176	176	176
40%	176	176	176	179	177	177	176	176	176	176	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	176	176	176	178	177	176	176	176	176	175	176	176
70%	175	176	176	178	177	176	176	176	176	175	176	175
80%	175	175	176	177	176	176	176	176	176	175	176	175
90%	175	175	175	177	176	176	175	176	176	175	176	175
Long Term												
Full Simulation Period[a]	176	176	176	179	177	177	176	176	176	176	176	176
Water Year Types[b]												
Wet (31%)	176	177	176	178	177	176	176	176	176	175	176	175
Above Normal (25%)	176	175	179	179	177	176	176	176	176	175	176	175
Below Normal (6%)	176	176	176	185	183	176	176	176	176	175	176	176
Dry (13%)	176	177	176	178	177	176	176	176	176	175	176	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 7 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	-1	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	1	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]												
Wet (31%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (25%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (6%)	0	0	0	0	1	0	0	0	0	0	0	0
Dry (13%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (25%)	0	0	0	0	0	0	0	0	0	0	0	0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-37-24. Sacramento River d/s of Steamboat Slough, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	178	177	180	178	177	176	176	176	176	176	176
20%	176	177	177	179	178	177	176	176	176	176	176	176
30%	176	176	176	179	177	177	176	176	176	175	176	176
40%	176	176	176	178	177	177	176	176	176	175	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	175	176	176	178	177	176	176	176	176	175	176	176
70%	175	176	176	177	177	176	176	176	176	175	176	175
80%	175	175	176	177	176	176	176	176	176	175	175	175
90%	175	175	175	177	176	176	175	176	176	175	175	175
Long Term												
Full Simulation Period[a]	176	176	176	178	177	176	176	176	176	175	176	176
Water Year Types[b]												
Wet (31%)	175	177	176	177	177	176	176	176	176	175	176	175
Above Normal (25%)	176	176	179	179	177	176	176	176	176	175	176	175
Below Normal (6%)	176	175	175	185	182	176	176	176	176	175	176	176
Dry (13%)	176	177	176	178	177	176	176	176	176	175	176	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 8 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	178	177	180	178	177	176	176	176	176	176	176
20%	176	177	177	179	178	177	176	176	176	176	176	176
30%	176	176	176	179	178	177	176	176	176	176	176	176
40%	176	176	176	178	177	176	176	176	176	176	176	176
50%	176	176	176	178	177	176	176	176	176	176	176	176
60%	176	176	176	178	177	176	176	176	176	176	176	176
70%	176	176	176	178	176	176	176	176	176	176	176	176
80%	176	176	176	177	176	176	176	176	176	176	176	175
90%	175	175	176	177	176	176	175	175	176	176	176	175
Long Term												
Full Simulation Period[a]	176	176	176	178	177	176	176	176	176	176	176	176
Water Year Types[b]												
Wet (31%)	176	177	176	178	177	176	176	176	176	176	176	175
Above Normal (25%)	176	176	179	179	177	176	176	176	176	176	176	176
Below Normal (6%)	176	176	176	184	181	176	176	176	176	176	176	176
Dry (13%)	176	177	176	178	177	176	176	176	176	176	176	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 8 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]												
Wet (31%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (25%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (6%)	0	0	0	-1	-1	0	0	0	0	0	0	0
Dry (13%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (25%)	0	0	0	0	0	0	0	0	0	0	0	0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-37-25. Sacramento River d/s of Steamboat Slough, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	178	177	180	178	177	176	176	176	176	176	176
20%	176	177	177	179	178	177	176	176	176	176	176	176
30%	176	176	176	179	177	177	176	176	176	175	176	176
40%	176	176	176	178	177	177	176	176	176	175	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	175	176	176	178	177	176	176	176	176	175	176	176
70%	175	176	176	177	177	176	176	176	176	175	176	175
80%	175	175	176	177	176	176	176	176	176	175	175	175
90%	175	175	175	177	176	176	175	176	176	175	175	175
Long Term												
Full Simulation Period[a]	176	176	176	178	177	176	176	176	176	175	176	176
Water Year Types[b]												
Wet (31%)	175	177	176	177	177	176	176	176	176	175	176	175
Above Normal (25%)	176	176	179	179	177	176	176	176	176	175	176	175
Below Normal (6%)	176	175	175	185	182	176	176	176	176	175	176	176
Dry (13%)	176	177	176	178	177	176	176	176	176	175	176	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 9 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	178	177	180	178	177	176	176	176	176	176	176
20%	176	177	177	179	178	177	176	176	176	176	176	176
30%	176	176	176	179	177	177	176	176	176	176	176	176
40%	176	176	176	179	177	177	176	176	176	176	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	176	176	176	178	177	176	176	176	176	175	176	176
70%	175	176	176	178	177	176	176	176	176	175	176	175
80%	175	175	175	177	176	176	176	176	176	175	175	175
90%	175	175	175	177	176	176	175	176	176	175	175	175
Long Term												
Full Simulation Period[a]	176	176	176	179	177	177	176	176	176	176	176	176
Water Year Types[b]												
Wet (31%)	175	177	176	178	177	176	176	176	176	176	176	175
Above Normal (25%)	176	175	179	179	177	176	176	176	176	175	176	175
Below Normal (6%)	176	175	175	185	183	176	176	176	176	175	176	176
Dry (13%)	176	177	176	178	177	176	176	176	176	175	176	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 9 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	-1	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	1	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]												
Wet (31%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (25%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (6%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry (13%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (25%)	0	0	0	0	0	0	0	0	0	0	0	0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

C.38. Sacramento River at Mallard Slough Salinity

Table C-38-1. Sacramento River at Mallard Slough, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,122	14,069	12,333	9,904	8,297	4,059	4,600	7,163	10,179	11,603	11,627	13,190
20%	13,584	13,673	12,070	8,056	6,682	3,221	3,775	6,336	8,297	10,291	11,148	12,948
30%	13,405	13,295	12,041	6,761	3,653	2,352	2,421	5,447	7,018	9,460	10,150	12,370
40%	13,211	13,140	11,204	5,512	3,558	1,376	1,923	3,332	5,656	8,317	9,439	11,941
50%	12,772	12,978	9,171	4,234	1,214	895	1,022	2,755	5,585	8,259	8,609	11,515
60%	11,718	12,740	8,086	3,402	663	334	689	1,717	4,059	6,402	8,162	11,000
70%	11,075	9,371	7,246	1,282	225	218	515	871	2,861	5,146	7,928	10,893
80%	10,674	7,398	1,490	351	216	208	381	747	2,161	4,326	7,794	10,135
90%	3,879	2,830	199	216	213	205	211	300	1,098	3,818	7,508	6,703
Long Term												
Full Simulation Period[a]	11,009	10,456	8,018	4,607	3,002	1,735	1,967	3,394	5,366	7,407	8,862	10,603
Water Year Types[b]												
Wet (31%)	7,319	5,554	2,062	1,042	210	210	363	711	1,907	3,470	5,971	6,344
Above Normal (25%)	13,938	12,767	9,645	667	221	208	322	623	1,847	4,306	7,871	10,288
Below Normal (6%)	11,300	12,740	12,379	5,512	849	334	802	899	3,007	6,402	8,316	11,941
Dry (13%)	11,788	11,518	8,960	6,320	3,932	1,457	1,675	3,482	5,880	8,496	9,059	11,483
Critical (25%)	12,107	12,146	10,506	7,484	6,033	4,069	4,375	7,077	9,603	11,127	11,523	13,165

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,228	14,006	13,056	8,727	8,514	5,581	5,145	7,755	10,610	10,994	11,682	13,518
20%	12,485	12,683	11,953	7,995	4,776	4,232	4,809	6,713	8,320	9,136	10,380	13,182
30%	12,259	12,426	10,108	6,172	4,395	2,992	3,446	4,760	6,910	8,985	9,790	12,839
40%	11,848	12,167	8,038	5,746	4,018	1,531	2,286	4,662	6,567	8,521	9,320	12,403
50%	11,440	9,466	7,777	5,019	2,235	1,459	1,627	3,923	5,750	7,585	8,141	12,113
60%	6,284	6,399	7,472	3,683	1,154	531	1,141	2,423	4,903	5,291	7,833	11,425
70%	4,405	5,130	6,650	1,365	252	256	694	2,081	4,419	4,519	7,305	6,043
80%	2,881	3,656	3,651	327	212	205	513	1,312	3,382	4,120	7,212	4,051
90%	2,840	1,983	220	212	208	204	224	480	2,493	3,305	7,119	3,222
Long Term												
Full Simulation Period[a]	8,694	8,518	7,508	4,564	3,244	2,150	2,423	3,948	6,023	7,029	8,841	9,622
Water Year Types[b]												
Wet (31%)	7,485	5,684	2,165	1,077	218	227	508	1,458	3,009	3,524	7,082	3,392
Above Normal (25%)	12,515	12,541	9,799	624	226	207	423	990	3,472	4,050	7,204	6,043
Below Normal (6%)	6,284	6,399	8,552	4,898	1,240	531	1,182	2,097	3,382	7,367	9,320	12,403
Dry (13%)	5,972	6,918	7,655	6,981	4,441	2,064	2,441	4,087	6,205	7,664	8,624	12,159
Critical (25%)	10,792	10,881	10,538	6,931	6,316	4,858	4,990	7,383	9,836	10,449	10,980	13,451

No Action Alternative (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-894	-63	**722**	-1,177	**217**	**1,522**	**546**	**592**	**431**	-610	**55**	**328**
20%	-1,099	-990	-117	-62	-1,906	**1,011**	**1,034**	**377**	**23**	-1,154	-768	**235**
30%	-1,146	-869	-1,933	-589	**742**	**640**	**1,025**	-688	-108	-475	-361	**469**
40%	-1,363	-974	-3,166	**234**	**460**	**155**	**363**	**1,330**	**911**	**204**	-118	**462**
50%	-1,332	-3,512	-1,394	**785**	**1,021**	**565**	**604**	**1,168**	**166**	-674	-468	**598**
60%	-5,434	-6,341	-614	**280**	**492**	**197**	**452**	**706**	**844**	-1,111	-329	**426**
70%	-6,670	-4,242	-596	**83**	**27**	**37**	**179**	**1,210**	**1,558**	-627	-623	-4,851
80%	-7,793	-3,742	**2,160**	-24	-4	-3	**131**	**565**	**1,221**	-206	-582	-6,084
90%	-1,039	-847	**21**	-4	-5	-1	**13**	**180**	**1,395**	-513	-389	-3,481
Long Term												
Full Simulation Period[a]	-2,315	-1,937	-510	-43	**242**	**415**	**456**	**554**	**656**	-378	-21	-981
Water Year Types[b]												
Wet (31%)	**165**	**130**	**104**	**35**	**8**	**17**	**145**	**746**	**1,102**	**54**	**1,111**	-2,952
Above Normal (25%)	-1,423	-226	**154**	-43	**5**	-1	**101**	**367**	**1,625**	-256	-667	-4,245
Below Normal (6%)	-5,016	-6,341	-3,827	-614	**391**	**197**	**380**	**1,197**	**375**	**965**	**1,005**	**462**
Dry (13%)	-5,817	-4,600	-1,305	**661**	**508**	**607**	**766**	**605**	**325**	-832	-435	**676**
Critical (25%)	-1,315	-1,265	**32**	-553	**283**	**789**	**615**	**306**	**233**	-678	-543	**286**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

Table C-38-2. Sacramento River at Mallard Slough, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,122	14,069	12,333	9,904	8,297	4,059	4,600	7,163	10,179	11,603	11,627	13,190
20%	13,584	13,673	12,070	8,056	6,682	3,221	3,775	6,336	8,297	10,291	11,148	12,948
30%	13,405	13,295	12,041	6,761	3,653	2,352	2,421	5,447	7,018	9,460	10,150	12,370
40%	13,211	13,140	11,204	5,512	3,558	1,376	1,923	3,332	5,656	8,317	9,439	11,941
50%	12,772	12,978	9,171	4,234	1,214	895	1,022	2,755	5,585	8,259	8,609	11,515
60%	11,718	12,740	8,086	3,402	663	334	689	1,717	4,059	6,402	8,162	11,000
70%	11,075	9,371	7,246	1,282	225	218	515	871	2,861	5,146	7,928	10,893
80%	10,674	7,398	1,490	351	216	208	381	747	2,161	4,326	7,794	10,135
90%	3,879	2,830	199	216	213	205	211	300	1,098	3,818	7,508	6,703
Long Term												
Full Simulation Period[a]	11,009	10,456	8,018	4,607	3,002	1,735	1,967	3,394	5,366	7,407	8,862	10,603
Water Year Types[b]												
Wet (31%)	7,319	5,554	2,062	1,042	210	210	363	711	1,907	3,470	5,971	6,344
Above Normal (25%)	13,938	12,767	9,645	667	221	208	322	623	1,847	4,306	7,871	10,288
Below Normal (6%)	11,300	12,740	12,379	5,512	849	334	802	899	3,007	6,402	8,316	11,941
Dry (13%)	11,788	11,518	8,960	6,320	3,932	1,457	1,675	3,482	5,880	8,496	9,059	11,483
Critical (25%)	12,107	12,146	10,506	7,484	6,033	4,069	4,375	7,077	9,603	11,127	11,523	13,165

Alternative 1A,1B,1C (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	12,505	12,719	11,721	8,550	6,764	5,516	5,800	8,791	11,537	12,355	12,816	13,561
20%	12,318	12,415	11,250	7,655	5,726	4,723	5,328	7,495	8,755	11,464	11,874	13,187
30%	11,660	11,071	10,463	6,150	5,424	3,167	3,614	5,265	7,724	10,146	11,481	12,959
40%	10,977	10,407	9,896	5,526	3,931	2,507	3,193	5,195	6,541	9,842	10,972	12,691
50%	9,797	9,196	9,568	5,335	2,546	2,103	2,606	5,028	6,011	8,653	10,048	12,369
60%	9,562	8,469	8,339	4,590	1,166	521	1,895	4,589	5,874	6,529	9,576	12,272
70%	7,723	7,732	7,372	1,678	292	296	924	2,696	5,053	6,247	9,230	12,215
80%	6,160	6,790	4,865	536	268	220	687	2,552	4,595	5,831	8,730	11,389
90%	5,460	3,384	235	234	227	215	268	802	2,562	5,377	8,490	10,411
Long Term												
Full Simulation Period[a]	9,404	8,871	7,836	4,566	3,184	2,352	2,848	4,714	6,576	8,389	10,413	12,006
Water Year Types[b]												
Wet (31%)	7,958	4,871	1,962	1,499	249	241	741	2,183	3,273	4,786	8,821	10,822
Above Normal (25%)	9,682	10,619	9,118	588	259	238	599	1,884	4,186	6,135	9,230	12,481
Below Normal (6%)	5,998	7,278	10,572	5,354	1,166	521	2,206	4,589	4,595	8,097	11,243	13,836
Dry (13%)	11,620	11,389	9,301	6,163	4,599	2,617	2,801	4,488	6,427	8,886	10,008	11,969
Critical (25%)	9,359	9,678	10,305	7,177	5,973	5,039	5,600	8,078	10,691	11,835	12,316	12,426

Alternative 1A,1B,1C (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,618	-1,351	-612	-1,353	-1,533	**1,457**	**1,201**	**1,629**	**1,358**	**752**	**1,189**	**371**
20%	-1,266	-1,258	-820	-401	-956	**1,502**	**1,553**	**1,159**	**458**	**1,173**	**726**	**240**
30%	-1,745	-2,225	-1,578	-611	**1,771**	**815**	**1,193**	-182	**707**	**686**	**1,330**	**589**
40%	-2,234	-2,733	-1,307	**14**	**373**	**1,131**	**1,270**	**1,864**	**884**	**1,524**	**1,533**	**750**
50%	-2,975	-3,782	**397**	**1,101**	**1,332**	**1,209**	**1,583**	**2,273**	**426**	**393**	**1,440**	**854**
60%	-2,156	-4,271	**253**	**1,188**	**503**	**187**	**1,205**	**2,872**	**1,815**	**126**	**1,414**	**1,272**
70%	-3,352	-1,639	**125**	**396**	**67**	**78**	**409**	**1,825**	**2,192**	**1,101**	**1,302**	**1,321**
80%	-4,513	-608	**3,375**	**185**	**52**	**12**	**305**	**1,805**	**2,434**	**1,505**	**936**	**1,254**
90%	**1,580**	**555**	**35**	**17**	**14**	**10**	**57**	**502**	**1,464**	**1,559**	**982**	**3,708**
Long Term												
Full Simulation Period[a]	-1,605	-1,584	-181	-40	**182**	**616**	**881**	**1,321**	**1,210**	**982**	**1,551**	**1,403**
Water Year Types[b]												
Wet (31%)	**638**	-683	-100	**457**	**39**	**31**	**378**	**1,471**	**1,367**	**1,316**	**2,851**	**4,477**
Above Normal (25%)	-4,256	-2,148	-527	-80	**38**	**30**	**278**	**1,261**	**2,339**	**1,829**	**1,359**	**2,194**
Below Normal (6%)	-5,302	-5,462	-1,807	-158	**317**	**187**	**1,404**	**3,690**	**1,589**	**1,694**	**2,927**	**1,896**
Dry (13%)	-168	-130	**340**	-157	**666**	**1,160**	**1,125**	**1,006**	**547**	**389**	**949**	**486**
Critical (25%)	-2,749	-2,468	-201	-307	-60	**970**	**1,225**	**1,001**	**1,088**	**708**	**794**	-739

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-38-3. Sacramento River at Mallard Slough, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,122	14,069	12,333	9,904	8,297	4,059	4,600	7,163	10,179	11,603	11,627	13,190
20%	13,584	13,673	12,070	8,056	6,682	3,221	3,775	6,336	8,297	10,291	11,148	12,948
30%	13,405	13,295	12,041	6,761	3,653	2,352	2,421	5,447	7,018	9,460	10,150	12,370
40%	13,211	13,140	11,204	5,512	3,558	1,376	1,923	3,332	5,656	8,317	9,439	11,941
50%	12,772	12,978	9,171	4,234	1,214	895	1,022	2,755	5,585	8,259	8,609	11,515
60%	11,718	12,740	8,086	3,402	663	334	689	1,717	4,059	6,402	8,162	11,000
70%	11,075	9,371	7,246	1,282	225	218	515	871	2,861	5,146	7,928	10,893
80%	10,674	7,398	1,490	351	216	208	381	747	2,161	4,326	7,794	10,135
90%	3,879	2,830	199	216	213	205	211	300	1,098	3,818	7,508	6,703
Long Term												
Full Simulation Period[a]	11,009	10,456	8,018	4,607	3,002	1,735	1,967	3,394	5,366	7,407	8,862	10,603
Water Year Types[b]												
Wet (31%)	7,319	5,554	2,062	1,042	210	210	363	711	1,907	3,470	5,971	6,344
Above Normal (25%)	13,938	12,767	9,645	667	221	208	322	623	1,847	4,306	7,871	10,288
Below Normal (6%)	11,300	12,740	12,379	5,512	849	334	802	899	3,007	6,402	8,316	11,941
Dry (13%)	11,788	11,518	8,960	6,320	3,932	1,457	1,675	3,482	5,880	8,496	9,059	11,483
Critical (25%)	12,107	12,146	10,506	7,484	6,033	4,069	4,375	7,077	9,603	11,127	11,523	13,165

Alternative 2A,2B,2C (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	11,885	13,080	11,113	6,720	6,854	5,172	5,766	8,768	11,566	12,390	12,708	13,480
20%	9,469	10,748	8,811	5,757	5,076	4,596	5,239	7,307	8,910	11,583	12,128	13,235
30%	9,251	9,626	8,544	5,188	3,611	3,134	3,751	4,977	7,562	9,833	11,407	12,727
40%	8,855	8,880	8,098	4,992	3,208	2,346	3,176	4,834	6,513	9,708	10,442	12,089
50%	7,942	7,067	7,300	4,256	2,402	2,015	2,039	4,229	5,980	8,639	10,060	11,805
60%	5,609	5,713	6,789	3,284	1,463	849	1,415	2,560	5,788	6,605	9,659	10,311
70%	4,002	4,710	6,094	1,490	295	298	878	2,457	4,271	5,993	8,981	6,110
80%	2,959	3,679	2,632	399	252	221	624	1,657	3,680	5,895	8,770	4,247
90%	2,896	2,080	227	232	227	215	269	589	2,440	5,386	8,739	3,684
Long Term												
Full Simulation Period[a]	7,163	7,344	6,642	3,691	2,809	2,307	2,742	4,301	6,387	8,331	10,403	9,543
Water Year Types[b]												
Wet (31%)	5,745	4,993	1,955	1,156	245	242	606	1,731	3,208	4,847	8,904	3,776
Above Normal (25%)	9,789	10,810	8,454	557	262	239	578	1,205	3,325	5,823	8,981	6,110
Below Normal (6%)	5,609	5,713	8,297	4,565	1,463	849	1,512	2,560	3,680	7,801	11,115	13,707
Dry (13%)	5,535	6,657	6,286	5,256	4,049	2,547	2,754	4,199	6,374	8,937	10,198	12,253
Critical (25%)	8,859	8,714	9,619	5,547	5,158	4,887	5,553	8,024	10,708	11,743	12,193	12,529

Alternative 2A,2B,2C (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-2,238	-989	-1,220	-3,184	-1,443	**1,113**	**1,166**	**1,606**	**1,387**	**786**	**1,081**	**290**
20%	-4,115	-2,926	-3,259	-2,299	-1,606	**1,375**	**1,465**	**971**	**612**	**1,292**	**980**	**287**
30%	-4,154	-3,669	-3,497	-1,573	-42	**782**	**1,330**	-470	**544**	**373**	**1,257**	**356**
40%	-4,356	-4,261	-3,105	-520	-351	**970**	**1,253**	**1,503**	**857**	**1,391**	**1,003**	**149**
50%	-4,830	-5,911	-1,871	**22**	**1,188**	**1,121**	**1,017**	**1,474**	**396**	**380**	**1,451**	**290**
60%	-6,109	-7,027	-1,297	-118	**800**	**515**	**726**	**843**	**1,728**	**203**	**1,497**	-689
70%	-7,073	-4,661	-1,152	**208**	**70**	**79**	**363**	**1,586**	**1,411**	**847**	**1,053**	-4,783
80%	-7,715	-3,719	**1,141**	**48**	**36**	**13**	**242**	**910**	**1,519**	**1,569**	**976**	-5,887
90%	-983	-750	**28**	**16**	**15**	**10**	**58**	**289**	**1,341**	**1,567**	**1,231**	-3,019
Long Term												
Full Simulation Period[a]	-3,846	-3,111	-1,376	-916	-192	**572**	**775**	**907**	**1,021**	**924**	**1,541**	-1,060
Water Year Types[b]												
Wet (31%)	-1,574	-560	-106	**115**	**35**	**32**	**243**	**1,019**	**1,301**	**1,378**	**2,933**	-2,568
Above Normal (25%)	-4,149	-1,957	-1,190	-111	**41**	**31**	**256**	**582**	**1,478**	**1,517**	**1,110**	-4,178
Below Normal (6%)	-5,691	-7,027	-4,082	-948	**614**	**515**	**710**	**1,661**	**673**	**1,399**	**2,799**	**1,766**
Dry (13%)	-6,253	-4,861	-2,674	-1,063	**116**	**1,090**	**1,079**	**718**	**494**	**441**	**1,139**	**770**
Critical (25%)	-3,248	-3,431	-887	-1,937	-875	**818**	**1,178**	**947**	**1,105**	**616**	**671**	-636

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-38-4. Sacramento River at Mallard Slough, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,122	14,069	12,333	9,904	8,297	4,059	4,600	7,163	10,179	11,603	11,627	13,190
20%	13,584	13,673	12,070	8,056	6,682	3,221	3,775	6,336	8,297	10,291	11,148	12,948
30%	13,405	13,295	12,041	6,761	3,653	2,352	2,421	5,447	7,018	9,460	10,150	12,370
40%	13,211	13,140	11,204	5,512	3,558	1,376	1,923	3,332	5,656	8,317	9,439	11,941
50%	12,772	12,978	9,171	4,234	1,214	895	1,022	2,755	5,585	8,259	8,609	11,515
60%	11,718	12,740	8,086	3,402	663	334	689	1,717	4,059	6,402	8,162	11,000
70%	11,075	9,371	7,246	1,282	225	218	515	871	2,861	5,146	7,928	10,893
80%	10,674	7,398	1,490	351	216	208	381	747	2,161	4,326	7,794	10,135
90%	3,879	2,830	199	216	213	205	211	300	1,098	3,818	7,508	6,703
Long Term												
Full Simulation Period[a]	11,009	10,456	8,018	4,607	3,002	1,735	1,967	3,394	5,366	7,407	8,862	10,603
Water Year Types[b]												
Wet (31%)	7,319	5,554	2,062	1,042	210	210	363	711	1,907	3,470	5,971	6,344
Above Normal (25%)	13,938	12,767	9,645	667	221	208	322	623	1,847	4,306	7,871	10,288
Below Normal (6%)	11,300	12,740	12,379	5,512	849	334	802	899	3,007	6,402	8,316	11,941
Dry (13%)	11,788	11,518	8,960	6,320	3,932	1,457	1,675	3,482	5,880	8,496	9,059	11,483
Critical (25%)	12,107	12,146	10,506	7,484	6,033	4,069	4,375	7,077	9,603	11,127	11,523	13,165

Alternative 3 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	12,655	12,431	11,907	7,658	6,673	5,466	5,847	8,940	11,458	12,290	12,813	13,417
20%	12,408	11,960	11,478	7,416	6,012	4,704	5,309	7,480	8,671	11,410	11,749	13,254
30%	11,684	11,472	10,767	6,719	5,233	2,907	3,573	5,289	7,677	9,973	11,309	13,031
40%	10,870	10,472	9,891	5,689	4,003	2,172	3,210	5,172	6,508	9,722	10,658	12,745
50%	9,264	9,201	9,017	5,035	2,426	1,907	2,572	5,054	6,280	8,706	10,080	12,474
60%	8,860	8,185	8,737	4,454	1,297	528	1,909	4,585	5,854	6,570	9,321	12,258
70%	7,196	7,504	7,309	1,549	271	279	931	2,738	5,138	6,330	9,133	11,801
80%	5,865	6,129	4,827	472	237	214	770	2,568	4,588	5,869	8,745	11,377
90%	5,213	3,351	223	221	215	212	253	850	2,565	5,325	8,723	10,778
Long Term												
Full Simulation Period[a]	9,220	8,718	7,901	4,365	3,022	2,284	2,856	4,752	6,597	8,390	10,383	12,009
Water Year Types[b]												
Wet (31%)	7,733	5,415	2,144	1,275	233	239	766	2,206	3,333	4,819	8,802	10,685
Above Normal (25%)	9,353	9,863	8,852	601	239	218	577	1,932	4,215	6,139	9,155	12,377
Below Normal (6%)	7,270	8,084	10,952	5,436	1,297	528	2,204	4,585	4,588	8,134	11,205	13,929
Dry (13%)	11,687	11,180	9,195	6,474	4,525	2,379	2,760	4,503	6,518	8,873	10,073	12,186
Critical (25%)	8,774	9,058	10,481	6,441	5,510	5,021	5,645	8,148	10,626	11,811	12,222	12,396

Alternative 3 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,467	-1,638	-426	-2,245	-1,623	**1,407**	**1,248**	**1,777**	**1,279**	**687**	**1,186**	**227**
20%	-1,176	-1,714	-592	-640	-670	**1,483**	**1,535**	**1,145**	**374**	**1,119**	**601**	**307**
30%	-1,721	-1,823	-1,274	-42	**1,581**	**555**	**1,152**	-158	**659**	**513**	**1,159**	**661**
40%	-2,341	-2,669	-1,312	**177**	**445**	**796**	**1,288**	**1,841**	**852**	**1,405**	**1,220**	**804**
50%	-3,508	-3,777	-153	**801**	**1,212**	**1,012**	**1,550**	**2,299**	**695**	**447**	**1,471**	**959**
60%	-2,858	-4,555	**651**	**1,051**	**635**	**194**	**1,220**	**2,867**	**1,794**	**168**	**1,159**	**1,259**
70%	-3,878	-1,867	**63**	**266**	**46**	**60**	**416**	**1,867**	**2,277**	**1,185**	**1,205**	**908**
80%	-4,809	-1,268	**3,337**	**121**	**21**	**7**	**389**	**1,822**	**2,427**	**1,543**	**951**	**1,243**
90%	**1,333**	**521**	**24**	**5**	**2**	**7**	**42**	**550**	**1,467**	**1,507**	**1,215**	**4,075**
Long Term												
Full Simulation Period[a]	-1,789	-1,738	-117	-242	**20**	**549**	**889**	**1,358**	**1,231**	**983**	**1,521**	**1,406**
Water Year Types[b]												
Wet (31%)	**414**	-138	**82**	**233**	**23**	**30**	**403**	**1,495**	**1,426**	**1,349**	**2,832**	**4,341**
Above Normal (25%)	-4,585	-2,904	-793	-66	**18**	**10**	**255**	**1,309**	**2,368**	**1,834**	**1,284**	**2,089**
Below Normal (6%)	-4,030	-4,656	-1,428	-76	**448**	**194**	**1,402**	**3,685**	**1,582**	**1,732**	**2,889**	**1,989**
Dry (13%)	-102	-338	**235**	**154**	**592**	**922**	**1,085**	**1,022**	**638**	**377**	**1,015**	**703**
Critical (25%)	-3,334	-3,088	-24	-1,042	-523	**952**	**1,271**	**1,071**	**1,023**	**684**	**699**	-769

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-38-5. Sacramento River at Mallard Slough, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,122	14,069	12,333	9,904	8,297	4,059	4,600	7,163	10,179	11,603	11,627	13,190
20%	13,584	13,673	12,070	8,056	6,682	3,221	3,775	6,336	8,297	10,291	11,148	12,948
30%	13,405	13,295	12,041	6,761	3,653	2,352	2,421	5,447	7,018	9,460	10,150	12,370
40%	13,211	13,140	11,204	5,512	3,558	1,376	1,923	3,332	5,656	8,317	9,439	11,941
50%	12,772	12,978	9,171	4,234	1,214	895	1,022	2,755	5,585	8,259	8,609	11,515
60%	11,718	12,740	8,086	3,402	663	334	689	1,717	4,059	6,402	8,162	11,000
70%	11,075	9,371	7,246	1,282	225	218	515	871	2,861	5,146	7,928	10,893
80%	10,674	7,398	1,490	351	216	208	381	747	2,161	4,326	7,794	10,135
90%	3,879	2,830	199	216	213	205	211	300	1,098	3,818	7,508	6,703
Long Term												
Full Simulation Period[a]	11,009	10,456	8,018	4,607	3,002	1,735	1,967	3,394	5,366	7,407	8,862	10,603
Water Year Types[b]												
Wet (31%)	7,319	5,554	2,062	1,042	210	210	363	711	1,907	3,470	5,971	6,344
Above Normal (25%)	13,938	12,767	9,645	667	221	208	322	623	1,847	4,306	7,871	10,288
Below Normal (6%)	11,300	12,740	12,379	5,512	849	334	802	899	3,007	6,402	8,316	11,941
Dry (13%)	11,788	11,518	8,960	6,320	3,932	1,457	1,675	3,482	5,880	8,496	9,059	11,483
Critical (25%)	12,107	12,146	10,506	7,484	6,033	4,069	4,375	7,077	9,603	11,127	11,523	13,165

Alternative 4 H1 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	11,858	13,388	11,877	6,345	6,403	5,010	5,796	8,668	11,547	12,419	12,743	13,300
20%	11,177	11,181	11,068	5,457	4,617	4,771	5,300	7,328	8,648	11,395	12,153	13,171
30%	10,360	10,416	10,109	5,253	3,788	3,103	3,707	5,059	7,620	9,997	11,258	12,902
40%	9,740	9,728	9,280	4,405	3,243	2,202	3,023	4,891	7,008	9,717	10,644	12,565
50%	9,423	9,540	8,936	3,914	2,247	1,877	1,962	4,345	6,075	8,378	10,116	12,486
60%	9,318	9,299	8,280	3,032	1,312	655	1,416	2,565	5,792	6,591	9,088	12,003
70%	8,858	8,078	6,811	1,487	283	293	910	2,444	4,271	6,177	9,014	11,839
80%	7,902	6,621	2,331	385	237	219	620	1,701	3,414	5,896	8,801	11,681
90%	7,219	3,922	210	224	214	213	267	570	2,438	5,148	8,583	10,079
Long Term												
Full Simulation Period[a]	9,439	8,950	7,464	3,699	2,803	2,260	2,729	4,319	6,403	8,337	10,358	11,870
Water Year Types[b]												
Wet (31%)	7,557	4,989	1,917	1,089	236	242	605	1,714	3,191	4,833	8,811	10,773
Above Normal (25%)	10,099	11,061	8,585	535	247	229	582	1,228	3,358	5,802	8,920	12,237
Below Normal (6%)	7,813	8,421	11,068	5,137	1,312	655	1,426	2,565	3,414	7,575	11,055	13,702
Dry (13%)	10,633	10,338	8,285	5,273	3,956	2,431	2,728	4,304	6,575	8,844	10,018	11,533
Critical (25%)	10,052	10,270	10,075	5,506	5,254	4,869	5,550	8,001	10,651	11,902	12,305	12,505

Alternative 4 H1 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-2,264	-682	-457	-3,558	-1,893	**952**	**1,196**	**1,506**	**1,368**	**816**	**1,116**	**110**
20%	-2,407	-2,492	-1,002	-2,599	-2,065	**1,550**	**1,525**	**992**	**350**	**1,104**	**1,005**	**223**
30%	-3,045	-2,879	-1,932	-1,508	**135**	**751**	**1,286**	-388	**602**	**537**	**1,108**	**532**
40%	-3,470	-3,412	-1,923	-1,107	-315	**825**	**1,101**	**1,560**	**1,351**	**1,400**	**1,205**	**624**
50%	-3,349	-3,438	-234	-320	**1,033**	**983**	**940**	**1,590**	**491**	**119**	**1,507**	**971**
60%	-2,401	-3,441	**194**	-371	**650**	**321**	**727**	**847**	**1,733**	**188**	**927**	**1,003**
70%	-2,216	-1,293	-436	**205**	**58**	**74**	**395**	**1,573**	**1,410**	**1,031**	**1,086**	**946**
80%	-2,772	-777	**841**	**34**	**21**	**11**	**239**	**955**	**1,253**	**1,570**	**1,007**	**1,547**
90%	**3,340**	**1,092**	**11**	**8**	**2**	**8**	**56**	**270**	**1,339**	**1,330**	**1,075**	**3,376**
Long Term												
Full Simulation Period[a]	-1,570	-1,506	-554	-908	-199	**524**	**762**	**925**	**1,037**	**930**	**1,496**	**1,267**
Water Year Types[b]												
Wet (31%)	**238**	-565	-145	**48**	**26**	**32**	**242**	**1,003**	**1,285**	**1,364**	**2,840**	**4,429**
Above Normal (25%)	-3,839	-1,706	-1,060	-133	**26**	**21**	**260**	**605**	**1,511**	**1,497**	**1,049**	**1,949**
Below Normal (6%)	-3,487	-4,319	-1,311	-375	**463**	**321**	**624**	**1,665**	**407**	**1,173**	**2,739**	**1,762**
Dry (13%)	-1,155	-1,181	-676	-1,047	**23**	**973**	**1,052**	**822**	**695**	**347**	**959**	**50**
Critical (25%)	-2,056	-1,876	-430	-1,977	-779	**800**	**1,175**	**924**	**1,049**	**775**	**782**	-660

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-38-6. Sacramento River at Mallard Slough, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,122	14,069	12,333	9,904	8,297	4,059	4,600	7,163	10,179	11,603	11,627	13,190
20%	13,584	13,673	12,070	8,056	6,682	3,221	3,775	6,336	8,297	10,291	11,148	12,948
30%	13,405	13,295	12,041	6,761	3,653	2,352	2,421	5,447	7,018	9,460	10,150	12,370
40%	13,211	13,140	11,204	5,512	3,558	1,376	1,923	3,332	5,656	8,317	9,439	11,941
50%	12,772	12,978	9,171	4,234	1,214	895	1,022	2,755	5,585	8,259	8,609	11,515
60%	11,718	12,740	8,086	3,402	663	334	689	1,717	4,059	6,402	8,162	11,000
70%	11,075	9,371	7,246	1,282	225	218	515	871	2,861	5,146	7,928	10,893
80%	10,674	7,398	1,490	351	216	208	381	747	2,161	4,326	7,794	10,135
90%	3,879	2,830	199	216	213	205	211	300	1,098	3,818	7,508	6,703
Long Term												
Full Simulation Period[a]	11,009	10,456	8,018	4,607	3,002	1,735	1,967	3,394	5,366	7,407	8,862	10,603
Water Year Types[b]												
Wet (31%)	7,319	5,554	2,062	1,042	210	210	363	711	1,907	3,470	5,971	6,344
Above Normal (25%)	13,938	12,767	9,645	667	221	208	322	623	1,847	4,306	7,871	10,288
Below Normal (6%)	11,300	12,740	12,379	5,512	849	334	802	899	3,007	6,402	8,316	11,941
Dry (13%)	11,788	11,518	8,960	6,320	3,932	1,457	1,675	3,482	5,880	8,496	9,059	11,483
Critical (25%)	12,107	12,146	10,506	7,484	6,033	4,069	4,375	7,077	9,603	11,127	11,523	13,165

Alternative 4 H2 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	11,866	13,246	11,904	7,562	6,519	4,904	5,470	8,587	11,434	12,162	12,629	13,482
20%	11,478	12,045	11,213	6,826	4,751	4,272	5,180	7,026	8,804	11,563	12,511	13,300
30%	10,263	10,964	10,936	5,796	4,050	2,989	3,531	5,029	7,585	9,943	11,183	12,633
40%	10,128	9,984	10,544	4,968	3,344	2,197	3,098	4,938	7,012	9,797	10,778	12,368
50%	9,962	9,306	9,009	4,260	2,396	1,845	1,933	3,711	6,342	8,715	10,015	12,303
60%	8,870	8,568	8,002	2,712	1,175	628	990	2,258	4,431	7,220	9,597	11,901
70%	8,479	7,756	6,706	1,421	281	295	465	1,811	3,794	6,124	9,322	11,833
80%	7,737	6,260	2,098	363	240	218	336	757	3,160	6,047	9,011	11,576
90%	6,583	3,414	206	224	216	213	223	473	2,459	5,454	8,810	11,114
Long Term												
Full Simulation Period[a]	9,355	8,885	7,640	3,872	2,816	2,184	2,553	4,038	6,270	8,464	10,445	11,947
Water Year Types[b]												
Wet (31%)	7,704	4,861	1,944	1,146	238	242	328	1,050	2,710	4,823	8,877	10,360
Above Normal (25%)	9,923	10,851	8,238	489	246	232	295	659	3,013	6,088	9,322	12,175
Below Normal (6%)	11,759	12,045	10,998	4,593	1,175	628	1,374	2,258	3,502	7,788	11,130	13,715
Dry (13%)	10,155	10,070	8,623	5,879	4,182	2,356	2,636	4,337	6,699	9,187	10,156	12,493
Critical (25%)	9,329	9,737	10,501	5,658	5,142	4,690	5,404	7,896	10,630	11,885	12,242	12,335

Alternative 4 H2 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-2,257	-824	-429	-2,342	-1,777	**845**	**871**	**1,425**	**1,255**	**559**	**1,002**	**292**
20%	-2,106	-1,628	-857	-1,231	-1,931	**1,051**	**1,405**	**691**	**507**	**1,272**	**1,363**	**352**
30%	-3,141	-2,331	-1,105	-964	**397**	**637**	**1,110**	-418	**567**	**483**	**1,033**	**263**
40%	-3,082	-3,156	-660	-545	-214	**821**	**1,176**	**1,606**	**1,356**	**1,480**	**1,340**	**428**
50%	-2,809	-3,672	-162	**26**	**1,182**	**950**	**911**	**957**	**758**	**456**	**1,407**	**788**
60%	-2,848	-4,173	-84	-691	**512**	**294**	**301**	**540**	**371**	**817**	**1,435**	**901**
70%	-2,596	-1,615	-541	**139**	**56**	**77**	-50	**940**	**933**	**978**	**1,394**	**939**
80%	-2,936	-1,137	**608**	**12**	**24**	**10**	-45	**10**	**999**	**1,721**	**1,217**	**1,442**
90%	**2,704**	**584**	**7**	**8**	**3**	**9**	**12**	**173**	**1,361**	**1,636**	**1,303**	**4,411**
Long Term												
Full Simulation Period[a]	-1,654	-1,571	-377	-734	-186	**448**	**586**	**644**	**904**	**1,057**	**1,583**	**1,344**
Water Year Types[b]												
Wet (31%)	**384**	-693	-118	**104**	**27**	**32**	-35	**339**	**804**	**1,353**	**2,907**	**4,016**
Above Normal (25%)	-4,015	-1,916	-1,407	-178	**25**	**24**	-27	**36**	**1,166**	**1,782**	**1,451**	**1,887**
Below Normal (6%)	**459**	-695	-1,381	-920	**326**	**294**	**572**	**1,358**	**496**	**1,386**	**2,814**	**1,775**
Dry (13%)	-1,634	-1,448	-337	-441	**250**	**899**	**961**	**855**	**820**	**691**	**1,097**	**1,010**
Critical (25%)	-2,778	-2,409	-5	-1,826	-891	**621**	**1,029**	**819**	**1,027**	**758**	**720**	-830

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-38-7. Sacramento River at Mallard Slough, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,122	14,069	12,333	9,904	8,297	4,059	4,600	7,163	10,179	11,603	11,627	13,190
20%	13,584	13,673	12,070	8,056	6,682	3,221	3,775	6,336	8,297	10,291	11,148	12,948
30%	13,405	13,295	12,041	6,761	3,653	2,352	2,421	5,447	7,018	9,460	10,150	12,370
40%	13,211	13,140	11,204	5,512	3,558	1,376	1,923	3,332	5,656	8,317	9,439	11,941
50%	12,772	12,978	9,171	4,234	1,214	895	1,022	2,755	5,585	8,259	8,609	11,515
60%	11,718	12,740	8,086	3,402	663	334	689	1,717	4,059	6,402	8,162	11,000
70%	11,075	9,371	7,246	1,282	225	218	515	871	2,861	5,146	7,928	10,893
80%	10,674	7,398	1,490	351	216	208	381	747	2,161	4,326	7,794	10,135
90%	3,879	2,830	199	216	213	205	211	300	1,098	3,818	7,508	6,703
Long Term												
Full Simulation Period[a]	11,009	10,456	8,018	4,607	3,002	1,735	1,967	3,394	5,366	7,407	8,862	10,603
Water Year Types[b]												
Wet (31%)	7,319	5,554	2,062	1,042	210	210	363	711	1,907	3,470	5,971	6,344
Above Normal (25%)	13,938	12,767	9,645	667	221	208	322	623	1,847	4,306	7,871	10,288
Below Normal (6%)	11,300	12,740	12,379	5,512	849	334	802	899	3,007	6,402	8,316	11,941
Dry (13%)	11,788	11,518	8,960	6,320	3,932	1,457	1,675	3,482	5,880	8,496	9,059	11,483
Critical (25%)	12,107	12,146	10,506	7,484	6,033	4,069	4,375	7,077	9,603	11,127	11,523	13,165

Alternative 4 H3 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	12,046	13,112	10,554	6,697	7,141	5,149	5,765	8,751	11,570	12,462	12,698	13,323
20%	11,515	11,781	8,740	5,761	4,898	4,765	5,263	7,310	8,910	11,582	12,304	12,987
30%	10,205	10,259	8,343	5,147	3,957	3,129	3,737	4,992	7,571	10,218	11,439	12,625
40%	9,219	9,692	7,884	4,607	3,193	2,230	3,171	4,838	6,659	9,640	11,004	12,239
50%	7,757	6,632	7,289	3,782	2,340	1,859	2,021	4,263	6,088	8,543	10,080	11,619
60%	5,652	5,720	6,642	3,183	1,215	730	1,417	2,569	5,788	6,615	9,135	10,195
70%	3,971	4,698	6,081	1,418	282	293	905	2,462	4,283	6,032	8,964	6,050
80%	2,955	3,683	2,562	384	239	219	621	1,660	3,698	5,916	8,794	4,224
90%	2,885	2,063	211	224	214	214	267	570	2,428	5,138	8,735	3,630
Long Term												
Full Simulation Period[a]	7,370	7,499	6,509	3,610	2,854	2,304	2,748	4,306	6,414	8,373	10,427	9,462
Water Year Types[b]												
Wet (31%)	6,295	4,946	1,930	1,099	236	243	605	1,718	3,210	4,757	8,781	3,750
Above Normal (25%)	9,538	10,586	8,124	502	247	229	577	1,208	3,321	5,812	8,964	6,050
Below Normal (6%)	5,652	5,720	8,320	4,607	1,215	730	1,472	2,569	3,698	7,834	11,152	13,731
Dry (13%)	5,565	6,663	6,261	5,182	3,991	2,427	2,761	4,228	6,467	8,863	10,161	11,934
Critical (25%)	9,151	9,331	9,362	5,405	5,410	5,000	5,575	8,027	10,715	12,005	12,396	12,564

Alternative 4 H3 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-2,077	-958	-1,779	-3,207	-1,156	**1,090**	**1,165**	**1,589**	**1,391**	**859**	**1,071**	**133**
20%	-2,068	-1,892	-3,330	-2,296	-1,784	**1,544**	**1,488**	**974**	**613**	**1,291**	**1,156**	**40**
30%	-3,200	-3,036	-3,698	-1,614	**304**	**778**	**1,316**	-455	**553**	**758**	**1,288**	**255**
40%	-3,992	-3,449	-3,320	-905	-365	**853**	**1,249**	**1,506**	**1,003**	**1,323**	**1,566**	**298**
50%	-5,015	-6,345	-1,882	-452	**1,126**	**964**	**998**	**1,508**	**503**	**284**	**1,471**	**104**
60%	-6,066	-7,020	-1,444	-220	**553**	**396**	**728**	**851**	**1,729**	**213**	**973**	-805
70%	-7,103	-4,674	-1,165	**136**	**57**	**75**	**390**	**1,591**	**1,422**	**887**	**1,036**	-4,843
80%	-7,719	-3,715	**1,071**	**33**	**23**	**11**	**240**	**913**	**1,536**	**1,590**	**1,000**	-5,911
90%	-995	-767	**12**	**8**	**2**	**9**	**56**	**270**	**1,329**	**1,320**	**1,228**	-3,073
Long Term												
Full Simulation Period[a]	-3,639	-2,956	-1,509	-997	-148	**569**	**781**	**913**	**1,048**	**966**	**1,565**	-1,141
Water Year Types[b]												
Wet (31%)	-1,025	-607	-132	**57**	**26**	**33**	**243**	**1,007**	**1,303**	**1,287**	**2,810**	-2,594
Above Normal (25%)	-4,400	-2,181	-1,520	-165	**26**	**21**	**255**	**585**	**1,474**	**1,506**	**1,093**	-4,237
Below Normal (6%)	-5,648	-7,020	-4,059	-905	**366**	**396**	**669**	**1,669**	**691**	**1,431**	**2,837**	**1,790**
Dry (13%)	-6,224	-4,856	-2,699	-1,138	**58**	**970**	**1,086**	**746**	**587**	**367**	**1,102**	**451**
Critical (25%)	-2,956	-2,814	-1,144	-2,079	-623	**931**	**1,201**	**950**	**1,112**	**879**	**873**	-601

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-38-8. Sacramento River at Mallard Slough, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,122	14,069	12,333	9,904	8,297	4,059	4,600	7,163	10,179	11,603	11,627	13,190
20%	13,584	13,673	12,070	8,056	6,682	3,221	3,775	6,336	8,297	10,291	11,148	12,948
30%	13,405	13,295	12,041	6,761	3,653	2,352	2,421	5,447	7,018	9,460	10,150	12,370
40%	13,211	13,140	11,204	5,512	3,558	1,376	1,923	3,332	5,656	8,317	9,439	11,941
50%	12,772	12,978	9,171	4,234	1,214	895	1,022	2,755	5,585	8,259	8,609	11,515
60%	11,718	12,740	8,086	3,402	663	334	689	1,717	4,059	6,402	8,162	11,000
70%	11,075	9,371	7,246	1,282	225	218	515	871	2,861	5,146	7,928	10,893
80%	10,674	7,398	1,490	351	216	208	381	747	2,161	4,326	7,794	10,135
90%	3,879	2,830	199	216	213	205	211	300	1,098	3,818	7,508	6,703
Long Term												
Full Simulation Period[a]	11,009	10,456	8,018	4,607	3,002	1,735	1,967	3,394	5,366	7,407	8,862	10,603
Water Year Types[b]												
Wet (31%)	7,319	5,554	2,062	1,042	210	210	363	711	1,907	3,470	5,971	6,344
Above Normal (25%)	13,938	12,767	9,645	667	221	208	322	623	1,847	4,306	7,871	10,288
Below Normal (6%)	11,300	12,740	12,379	5,512	849	334	802	899	3,007	6,402	8,316	11,941
Dry (13%)	11,788	11,518	8,960	6,320	3,932	1,457	1,675	3,482	5,880	8,496	9,059	11,483
Critical (25%)	12,107	12,146	10,506	7,484	6,033	4,069	4,375	7,077	9,603	11,127	11,523	13,165

Alternative 4 H4 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	12,078	12,595	11,844	8,336	7,570	5,124	5,615	8,538	11,417	12,123	12,520	13,307
20%	10,787	11,384	9,847	6,811	6,356	4,619	5,147	7,029	8,806	11,567	11,983	12,414
30%	9,418	10,056	8,463	6,151	4,104	3,081	3,498	5,035	7,592	10,055	11,260	12,203
40%	8,247	8,354	7,906	4,924	3,229	2,235	3,031	4,947	7,030	9,937	10,813	11,937
50%	7,363	6,236	7,239	4,224	2,335	1,808	1,994	3,713	6,409	8,660	10,177	11,778
60%	5,548	5,503	6,455	3,200	1,176	726	995	2,355	4,509	7,182	9,647	11,664
70%	3,960	4,486	6,058	1,458	280	293	462	1,815	3,633	6,085	9,352	6,122
80%	2,930	3,649	2,557	358	243	218	336	756	3,140	5,996	8,967	4,207
90%	2,863	2,103	208	224	219	213	222	479	2,451	5,446	8,800	3,641
Long Term												
Full Simulation Period[a]	7,144	7,216	6,700	4,192	3,079	2,266	2,579	4,043	6,263	8,441	10,433	9,473
Water Year Types[b]												
Wet (31%)	5,814	4,563	1,924	1,150	239	242	327	1,075	2,728	4,788	8,897	3,742
Above Normal (25%)	9,708	10,603	8,264	505	245	231	294	665	3,019	6,085	9,352	6,122
Below Normal (6%)	5,548	5,733	8,304	4,509	1,176	726	1,426	2,262	3,140	7,385	10,901	13,772
Dry (13%)	5,522	6,633	6,504	5,353	4,084	2,346	2,638	4,345	6,730	9,288	10,261	12,583
Critical (25%)	8,798	8,745	9,729	7,109	6,061	4,942	5,478	7,884	10,638	11,838	12,137	12,051

Alternative 4 H4 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-2,044	-1,474	-489	-1,568	-726	**1,066**	**1,016**	**1,376**	**1,238**	**520**	**893**	**117**
20%	-2,797	-2,290	-2,223	-1,245	-326	**1,398**	**1,372**	**694**	**509**	**1,276**	**835**	-533
30%	-3,987	-3,240	-3,578	-610	**451**	**729**	**1,077**	-413	**574**	**595**	**1,109**	-168
40%	-4,964	-4,786	-3,298	-588	-330	**859**	**1,108**	**1,615**	**1,373**	**1,619**	**1,375**	-4
50%	-5,409	-6,741	-1,932	-10	**1,121**	**914**	**971**	**958**	**825**	**401**	**1,568**	**263**
60%	-6,170	-7,238	-1,631	-202	**513**	**392**	**305**	**638**	**450**	**779**	**1,485**	**664**
70%	-7,115	-4,885	-1,188	**176**	**55**	**75**	-53	**944**	**773**	**939**	**1,424**	-4,772
80%	-7,743	-3,748	**1,066**	**7**	**27**	**10**	-45	**10**	**979**	**1,670**	**1,173**	-5,927
90%	-1,017	-726	**9**	**8**	**6**	**9**	**11**	**179**	**1,353**	**1,628**	**1,292**	-3,062
Long Term												
Full Simulation Period[a]	-3,865	-3,240	-1,318	-415	**77**	**530**	**612**	**649**	**896**	**1,034**	**1,571**	-1,130
Water Year Types[b]												
Wet (31%)	-1,505	-990	-137	**108**	**29**	**32**	-36	**364**	**822**	**1,319**	**2,927**	-2,602
Above Normal (25%)	-4,230	-2,165	-1,381	-163	**23**	**23**	-28	**41**	**1,172**	**1,779**	**1,481**	-4,166
Below Normal (6%)	-5,751	-7,007	-4,075	-1,003	**326**	**392**	**624**	**1,363**	**133**	**982**	**2,585**	**1,832**
Dry (13%)	-6,266	-4,885	-2,456	-966	**151**	**889**	**963**	**863**	**851**	**792**	**1,203**	**1,101**
Critical (25%)	-3,309	-3,400	-776	-375	**28**	**873**	**1,103**	**807**	**1,035**	**711**	**614**	-1,114

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-38-9. Sacramento River at Mallard Slough, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,122	14,069	12,333	9,904	8,297	4,059	4,600	7,163	10,179	11,603	11,627	13,190
20%	13,584	13,673	12,070	8,056	6,682	3,221	3,775	6,336	8,297	10,291	11,148	12,948
30%	13,405	13,295	12,041	6,761	3,653	2,352	2,421	5,447	7,018	9,460	10,150	12,370
40%	13,211	13,140	11,204	5,512	3,558	1,376	1,923	3,332	5,656	8,317	9,439	11,941
50%	12,772	12,978	9,171	4,234	1,214	895	1,022	2,755	5,585	8,259	8,609	11,515
60%	11,718	12,740	8,086	3,402	663	334	689	1,717	4,059	6,402	8,162	11,000
70%	11,075	9,371	7,246	1,282	225	218	515	871	2,861	5,146	7,928	10,893
80%	10,674	7,398	1,490	351	216	208	381	747	2,161	4,326	7,794	10,135
90%	3,879	2,830	199	216	213	205	211	300	1,098	3,818	7,508	6,703
Long Term												
Full Simulation Period[a]	11,009	10,456	8,018	4,607	3,002	1,735	1,967	3,394	5,366	7,407	8,862	10,603
Water Year Types[b]												
Wet (31%)	7,319	5,554	2,062	1,042	210	210	363	711	1,907	3,470	5,971	6,344
Above Normal (25%)	13,938	12,767	9,645	667	221	208	322	623	1,847	4,306	7,871	10,288
Below Normal (6%)	11,300	12,740	12,379	5,512	849	334	802	899	3,007	6,402	8,316	11,941
Dry (13%)	11,788	11,518	8,960	6,320	3,932	1,457	1,675	3,482	5,880	8,496	9,059	11,483
Critical (25%)	12,107	12,146	10,506	7,484	6,033	4,069	4,375	7,077	9,603	11,127	11,523	13,165

Alternative 5 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	12,834	12,515	11,910	8,379	7,342	5,701	5,487	8,403	11,325	12,091	12,709	13,284
20%	12,619	11,015	11,344	7,985	5,341	4,544	4,823	7,382	8,937	11,452	12,192	12,952
30%	11,426	10,364	8,602	6,291	4,836	3,431	3,746	5,097	7,816	9,896	11,262	12,692
40%	9,308	9,045	8,452	5,312	3,752	2,124	2,804	5,040	7,179	9,393	10,000	12,346
50%	8,860	8,698	7,712	5,164	2,448	1,807	1,997	4,478	6,367	8,404	9,596	11,866
60%	6,235	5,909	7,386	4,913	1,468	725	1,394	2,584	5,787	6,805	9,540	11,123
70%	4,422	4,833	6,458	1,395	264	271	901	2,514	4,715	6,461	9,149	6,028
80%	2,962	3,770	3,979	377	236	211	632	1,741	3,722	5,768	8,696	4,229
90%	2,894	2,124	219	217	211	210	236	591	2,573	5,324	8,512	3,523
Long Term												
Full Simulation Period[a]	7,995	7,627	7,124	4,418	3,116	2,359	2,652	4,334	6,557	8,318	10,268	9,531
Water Year Types[b]												
Wet (31%)	7,676	5,569	2,269	1,414	229	236	602	1,748	3,270	4,957	8,840	3,685
Above Normal (25%)	11,867	12,527	8,602	480	234	213	523	1,284	3,774	5,964	8,863	6,028
Below Normal (6%)	6,235	5,909	8,015	4,913	1,468	725	1,428	2,536	3,722	7,728	10,539	13,316
Dry (13%)	6,102	6,544	7,729	7,202	4,675	2,567	2,774	4,435	6,783	8,919	9,962	12,274
Critical (25%)	8,569	8,524	9,756	6,072	5,661	5,075	5,291	7,902	10,687	11,584	12,163	12,658

Alternative 5 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,288	-1,554	-423	-1,525	-954	**1,643**	**887**	**1,241**	**1,146**	**488**	**1,082**	**94**
20%	-965	-2,658	-726	-71	-1,341	**1,323**	**1,048**	**1,046**	**640**	**1,161**	**1,044**	**4**
30%	-1,979	-2,931	-3,439	-470	**1,183**	**1,079**	**1,325**	-351	**798**	**436**	**1,111**	**322**
40%	-3,903	-4,095	-2,752	-200	**193**	**748**	**882**	**1,708**	**1,523**	**1,076**	**562**	**405**
50%	-3,912	-4,279	-1,459	**930**	**1,234**	**913**	**974**	**1,723**	**783**	**145**	**987**	**351**
60%	-5,483	-6,831	-700	**1,510**	**805**	**391**	**705**	**867**	**1,728**	**402**	**1,378**	**123**
70%	-6,653	-4,538	-788	**113**	**39**	**52**	**386**	**1,643**	**1,854**	**1,315**	**1,221**	-4,866
80%	-7,711	-3,627	**2,488**	**26**	**20**	**3**	**250**	**994**	**1,561**	**1,442**	**901**	-5,905
90%	-985	-706	**20**	**1**	-1	**5**	**25**	**291**	**1,475**	**1,506**	**1,004**	-3,180
Long Term												
Full Simulation Period[a]	-3,014	-2,828	-893	-188	**114**	**623**	**685**	**940**	**1,191**	**911**	**1,406**	-1,072
Water Year Types[b]												
Wet (31%)	**357**	**15**	**207**	**372**	**18**	**26**	**239**	**1,037**	**1,364**	**1,487**	**2,870**	-2,659
Above Normal (25%)	-2,071	-240	-1,043	-187	**13**	**4**	**201**	**661**	**1,927**	**1,658**	**992**	-4,260
Below Normal (6%)	-5,065	-6,831	-4,364	-599	**619**	**391**	**626**	**1,637**	**716**	**1,326**	**2,223**	**1,375**
Dry (13%)	-5,687	-4,974	-1,231	**882**	**743**	**1,110**	**1,099**	**954**	**903**	**423**	**903**	**792**
Critical (25%)	-3,539	-3,621	-750	-1,412	-372	**1,006**	**916**	**825**	**1,084**	**457**	**640**	-507

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-38-10. Sacramento River at Mallard Slough, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,122	14,069	12,333	9,904	8,297	4,059	4,600	7,163	10,179	11,603	11,627	13,190
20%	13,584	13,673	12,070	8,056	6,682	3,221	3,775	6,336	8,297	10,291	11,148	12,948
30%	13,405	13,295	12,041	6,761	3,653	2,352	2,421	5,447	7,018	9,460	10,150	12,370
40%	13,211	13,140	11,204	5,512	3,558	1,376	1,923	3,332	5,656	8,317	9,439	11,941
50%	12,772	12,978	9,171	4,234	1,214	895	1,022	2,755	5,585	8,259	8,609	11,515
60%	11,718	12,740	8,086	3,402	663	334	689	1,717	4,059	6,402	8,162	11,000
70%	11,075	9,371	7,246	1,282	225	218	515	871	2,861	5,146	7,928	10,893
80%	10,674	7,398	1,490	351	216	208	381	747	2,161	4,326	7,794	10,135
90%	3,879	2,830	199	216	213	205	211	300	1,098	3,818	7,508	6,703
Long Term												
Full Simulation Period[a]	11,009	10,456	8,018	4,607	3,002	1,735	1,967	3,394	5,366	7,407	8,862	10,603
Water Year Types[b]												
Wet (31%)	7,319	5,554	2,062	1,042	210	210	363	711	1,907	3,470	5,971	6,344
Above Normal (25%)	13,938	12,767	9,645	667	221	208	322	623	1,847	4,306	7,871	10,288
Below Normal (6%)	11,300	12,740	12,379	5,512	849	334	802	899	3,007	6,402	8,316	11,941
Dry (13%)	11,788	11,518	8,960	6,320	3,932	1,457	1,675	3,482	5,880	8,496	9,059	11,483
Critical (25%)	12,107	12,146	10,506	7,484	6,033	4,069	4,375	7,077	9,603	11,127	11,523	13,165

Alternative 6A,6B,6C (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,949	9,577	6,953	5,030	5,365	3,890	5,055	7,556	10,120	12,573	12,030	10,884
20%	8,510	7,669	6,475	3,531	3,465	2,564	3,998	6,831	8,704	11,291	11,356	10,385
30%	7,496	6,773	5,394	3,373	2,217	2,056	2,773	4,930	7,501	10,691	10,741	9,472
40%	7,098	6,359	4,477	2,018	1,787	1,411	2,368	4,742	7,073	9,926	10,138	8,935
50%	6,773	5,717	3,597	1,917	1,047	1,148	1,645	4,021	6,339	9,394	9,403	8,516
60%	5,156	4,977	3,223	1,408	636	500	1,200	2,491	5,077	7,287	8,334	7,879
70%	3,989	3,360	2,854	817	293	294	819	2,000	3,925	5,974	7,042	5,872
80%	2,813	2,588	1,092	242	233	221	557	1,374	3,162	5,472	6,715	3,651
90%	2,739	1,644	204	235	228	216	268	550	2,310	4,979	6,475	3,162
Long Term												
Full Simulation Period[a]	6,161	5,472	4,001	2,488	2,046	1,679	2,327	3,964	6,068	8,465	9,005	7,637
Water Year Types[b]												
Wet (31%)	4,680	2,861	846	523	240	240	545	1,454	2,946	4,314	5,877	3,237
Above Normal (25%)	9,157	8,635	4,566	358	261	239	521	1,050	3,020	5,704	6,819	5,872
Below Normal (6%)	5,156	4,977	4,880	1,992	636	500	1,200	2,085	3,162	7,287	8,334	7,879
Dry (13%)	5,041	4,835	3,904	2,838	2,379	1,423	2,090	4,223	6,760	9,711	10,072	8,994
Critical (25%)	7,245	6,905	6,201	4,732	4,222	3,846	4,891	7,306	9,812	12,130	11,664	10,727

Alternative 6A,6B,6C (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-4,173	-4,492	-5,380	-4,874	-2,931	-169	**455**	**393**	-58	**969**	**403**	-2,306
20%	-5,074	-6,005	-5,595	-4,525	-3,217	-657	**224**	**495**	**407**	**1,000**	**207**	-2,562
30%	-5,909	-6,522	-6,647	-3,388	-1,436	-296	**352**	-517	**483**	**1,231**	**590**	-2,898
40%	-6,113	-6,781	-6,727	-3,494	-1,771	**35**	**446**	**1,410**	**1,417**	**1,609**	**700**	-3,006
50%	-5,998	-7,260	-5,573	-2,317	-167	**253**	**623**	**1,266**	**755**	**1,135**	**795**	-2,999
60%	-6,562	-7,763	-4,863	-1,995	-26	**166**	**511**	**774**	**1,018**	**884**	**172**	-3,121
70%	-7,086	-6,012	-4,392	-465	**68**	**76**	**304**	**1,129**	**1,064**	**828**	-886	-5,022
80%	-7,861	-4,809	-398	-109	**17**	**13**	**175**	**627**	**1,001**	**1,146**	-1,079	-6,484
90%	-1,140	-1,186	**5**	**18**	**16**	**11**	**57**	**250**	**1,211**	**1,161**	-1,033	-3,541
Long Term												
Full Simulation Period[a]	-4,848	-4,983	-4,017	-2,119	-955	-57	**360**	**570**	**701**	**1,058**	**144**	-2,967
Water Year Types[b]												
Wet (31%)	-2,640	-2,692	-1,216	-519	**30**	**30**	**182**	**743**	**1,040**	**844**	-93	-3,107
Above Normal (25%)	-4,781	-4,132	-5,079	-310	**40**	**31**	**199**	**427**	**1,173**	**1,398**	-1,052	-4,416
Below Normal (6%)	-6,144	-7,763	-7,499	-3,520	-213	**166**	**398**	**1,186**	**156**	**884**	**18**	-4,062
Dry (13%)	-6,748	-6,683	-5,057	-3,482	-1,554	-35	**414**	**741**	**880**	**1,215**	**1,013**	-2,488
Critical (25%)	-4,863	-5,241	-4,305	-2,751	-1,811	-223	**516**	**229**	**209**	**1,003**	**141**	-2,438

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-38-11. Sacramento River at Mallard Slough, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,122	14,069	12,333	9,904	8,297	4,059	4,600	7,163	10,179	11,603	11,627	13,190
20%	13,584	13,673	12,070	8,056	6,682	3,221	3,775	6,336	8,297	10,291	11,148	12,948
30%	13,405	13,295	12,041	6,761	3,653	2,352	2,421	5,447	7,018	9,460	10,150	12,370
40%	13,211	13,140	11,204	5,512	3,558	1,376	1,923	3,332	5,656	8,317	9,439	11,941
50%	12,772	12,978	9,171	4,234	1,214	895	1,022	2,755	5,585	8,259	8,609	11,515
60%	11,718	12,740	8,086	3,402	663	334	689	1,717	4,059	6,402	8,162	11,000
70%	11,075	9,371	7,246	1,282	225	218	515	871	2,861	5,146	7,928	10,893
80%	10,674	7,398	1,490	351	216	208	381	747	2,161	4,326	7,794	10,135
90%	3,879	2,830	199	216	213	205	211	300	1,098	3,818	7,508	6,703
Long Term												
Full Simulation Period[a]	11,009	10,456	8,018	4,607	3,002	1,735	1,967	3,394	5,366	7,407	8,862	10,603
Water Year Types[b]												
Wet (31%)	7,319	5,554	2,062	1,042	210	210	363	711	1,907	3,470	5,971	6,344
Above Normal (25%)	13,938	12,767	9,645	667	221	208	322	623	1,847	4,306	7,871	10,288
Below Normal (6%)	11,300	12,740	12,379	5,512	849	334	802	899	3,007	6,402	8,316	11,941
Dry (13%)	11,788	11,518	8,960	6,320	3,932	1,457	1,675	3,482	5,880	8,496	9,059	11,483
Critical (25%)	12,107	12,146	10,506	7,484	6,033	4,069	4,375	7,077	9,603	11,127	11,523	13,165

Alternative 7 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	11,623	9,518	7,296	5,003	5,290	3,688	4,833	6,822	8,037	11,208	12,076	12,964
20%	10,603	7,742	6,553	3,461	3,401	2,487	3,907	6,582	7,419	10,425	11,654	12,738
30%	10,305	7,632	4,957	3,311	2,209	1,997	2,669	4,970	6,809	9,855	11,156	12,518
40%	10,104	7,069	4,304	2,102	1,708	1,382	2,350	4,729	6,671	9,712	10,036	12,450
50%	9,103	6,013	3,538	2,039	999	1,048	1,556	3,948	5,705	8,615	9,578	12,062
60%	5,248	5,046	3,357	1,555	759	520	1,122	2,445	4,670	7,276	9,249	11,924
70%	3,698	3,269	2,893	793	283	291	816	1,977	3,415	5,976	9,110	6,108
80%	2,816	2,646	1,153	236	223	217	549	1,383	2,786	5,628	9,038	4,290
90%	2,583	1,700	201	226	218	214	264	511	2,192	5,252	8,858	3,642
Long Term												
Full Simulation Period[a]	7,417	5,689	4,015	2,487	2,014	1,621	2,259	3,744	5,251	8,076	10,140	9,554
Water Year Types[b]												
Wet (31%)	5,903	2,975	880	555	234	242	545	1,452	2,645	4,862	9,034	3,774
Above Normal (25%)	11,476	8,506	4,179	345	249	230	521	1,026	2,569	5,516	9,059	6,108
Below Normal (6%)	5,248	5,264	4,913	2,102	759	520	1,122	2,006	3,224	7,749	10,036	12,048
Dry (13%)	5,164	4,930	3,894	2,855	2,331	1,350	2,012	4,182	6,361	9,049	9,722	12,672
Critical (25%)	9,243	7,426	6,374	4,673	4,140	3,718	4,752	6,663	7,926	10,957	11,811	12,563

Alternative 7 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-2,499	-4,551	-5,037	-4,901	-3,007	-371	**234**	-340	-2,142	-395	**449**	-226
20%	-2,981	-5,932	-5,517	-4,596	-3,281	-734	**132**	**246**	-878	**134**	**506**	-209
30%	-3,099	-5,663	-7,084	-3,450	-1,444	-355	**248**	-477	-209	**395**	**1,006**	**148**
40%	-3,107	-6,071	-6,899	-3,410	-1,850	**6**	**428**	**1,397**	**1,015**	**1,395**	**598**	**510**
50%	-3,668	-6,965	-5,632	-2,195	-215	**153**	**534**	**1,193**	**120**	**356**	**969**	**547**
60%	-6,470	-7,694	-4,729	-1,847	**96**	**186**	**433**	**728**	**611**	**874**	**1,088**	**924**
70%	-7,377	-6,103	-4,353	-489	**58**	**73**	**301**	**1,106**	**555**	**831**	**1,182**	-4,785
80%	-7,858	-4,752	-337	-115	**7**	**10**	**168**	**636**	**625**	**1,302**	**1,244**	-5,844
90%	-1,296	-1,130	**2**	**10**	**5**	**9**	**53**	**211**	**1,094**	**1,434**	**1,350**	-3,061
Long Term												
Full Simulation Period[a]	-3,592	-4,767	-4,003	-2,119	-988	-114	**292**	**350**	-115	**669**	**1,278**	-1,049
Water Year Types[b]												
Wet (31%)	-1,417	-2,579	-1,181	-486	**24**	**32**	**182**	**740**	**738**	**1,392**	**3,064**	-2,570
Above Normal (25%)	-2,462	-4,261	-5,466	-322	**27**	**22**	**199**	**403**	**722**	**1,210**	**1,188**	-4,180
Below Normal (6%)	-6,051	-7,476	-7,466	-3,410	-90	**186**	**320**	**1,106**	**218**	**1,346**	**1,721**	**108**
Dry (13%)	-6,625	-6,588	-5,067	-3,464	-1,601	-107	**337**	**700**	**481**	**553**	**663**	**1,190**
Critical (25%)	-2,865	-4,720	-4,131	-2,811	-1,893	-351	**377**	-414	-1,677	-169	**288**	-602

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-38-12. Sacramento River at Mallard Slough, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,122	14,069	12,333	9,904	8,297	4,059	4,600	7,163	10,179	11,603	11,627	13,190
20%	13,584	13,673	12,070	8,056	6,682	3,221	3,775	6,336	8,297	10,291	11,148	12,948
30%	13,405	13,295	12,041	6,761	3,653	2,352	2,421	5,447	7,018	9,460	10,150	12,370
40%	13,211	13,140	11,204	5,512	3,558	1,376	1,923	3,332	5,656	8,317	9,439	11,941
50%	12,772	12,978	9,171	4,234	1,214	895	1,022	2,755	5,585	8,259	8,609	11,515
60%	11,718	12,740	8,086	3,402	663	334	689	1,717	4,059	6,402	8,162	11,000
70%	11,075	9,371	7,246	1,282	225	218	515	871	2,861	5,146	7,928	10,893
80%	10,674	7,398	1,490	351	216	208	381	747	2,161	4,326	7,794	10,135
90%	3,879	2,830	199	216	213	205	211	300	1,098	3,818	7,508	6,703
Long Term												
Full Simulation Period[a]	11,009	10,456	8,018	4,607	3,002	1,735	1,967	3,394	5,366	7,407	8,862	10,603
Water Year Types[b]												
Wet (31%)	7,319	5,554	2,062	1,042	210	210	363	711	1,907	3,470	5,971	6,344
Above Normal (25%)	13,938	12,767	9,645	667	221	208	322	623	1,847	4,306	7,871	10,288
Below Normal (6%)	11,300	12,740	12,379	5,512	849	334	802	899	3,007	6,402	8,316	11,941
Dry (13%)	11,788	11,518	8,960	6,320	3,932	1,457	1,675	3,482	5,880	8,496	9,059	11,483
Critical (25%)	12,107	12,146	10,506	7,484	6,033	4,069	4,375	7,077	9,603	11,127	11,523	13,165

Alternative 8 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	12,421	10,281	7,265	4,989	4,844	2,404	3,658	5,846	7,552	11,054	11,978	13,460
20%	12,218	9,351	7,047	3,556	3,324	2,069	3,287	4,894	6,589	9,907	11,914	13,097
30%	10,796	7,438	5,283	3,012	1,742	1,718	1,645	4,445	6,405	9,836	11,463	12,752
40%	10,137	7,051	4,406	1,936	1,377	980	1,400	3,353	6,062	9,814	11,082	12,593
50%	9,877	6,039	3,583	1,785	822	666	1,137	2,902	5,348	8,983	10,778	12,499
60%	4,998	5,161	3,381	1,133	568	452	856	1,751	4,306	7,871	10,579	12,338
70%	3,778	3,800	2,977	746	282	293	606	1,354	3,173	5,785	9,383	6,097
80%	2,821	2,624	1,112	233	223	217	475	1,125	2,654	5,471	9,134	4,017
90%	2,685	1,693	201	227	214	213	247	423	2,156	5,213	8,760	3,659
Long Term												
Full Simulation Period[a]	7,698	5,948	4,120	2,395	1,846	1,325	1,786	3,086	4,955	8,077	10,519	9,752
Water Year Types[b]												
Wet (31%)	6,301	3,165	893	450	234	243	468	1,135	2,475	4,712	8,895	3,703
Above Normal (25%)	11,171	8,577	4,524	347	243	228	419	832	2,494	5,493	9,139	6,097
Below Normal (6%)	4,998	5,161	4,900	1,936	568	452	856	1,149	2,976	7,871	10,795	13,097
Dry (13%)	5,660	5,419	4,024	2,658	1,875	923	1,294	3,498	6,224	9,429	10,980	13,234
Critical (25%)	9,596	7,702	6,461	4,651	4,009	3,126	3,965	5,606	7,305	10,761	11,947	12,600

Alternative 8 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,701	-3,788	-5,069	-4,915	-3,453	-1,655	-942	-1,317	-2,627	-549	**351**	**270**
20%	-1,366	-4,323	-5,023	-4,500	-3,358	-1,152	-488	-1,442	-1,708	-384	**766**	**149**
30%	-2,609	-5,858	-6,758	-3,749	-1,911	-634	-776	-1,003	-613	**376**	**1,312**	**382**
40%	-3,073	-6,090	-6,798	-3,576	-2,181	-396	-523	**21**	**405**	**1,497**	**1,643**	**652**
50%	-2,895	-6,938	-5,588	-2,449	-392	-228	**115**	**148**	-236	**724**	**2,170**	**984**
60%	-6,720	-7,579	-4,705	-2,270	-95	**118**	**167**	**33**	**247**	**1,469**	**2,417**	**1,338**
70%	-7,296	-5,571	-4,269	-536	**57**	**74**	**91**	**483**	**312**	**639**	**1,455**	-4,797
80%	-7,852	-4,774	-378	-118	**7**	**9**	**93**	**378**	**492**	**1,145**	**1,340**	-6,117
90%	-1,194	-1,136	**2**	**11**	**1**	**8**	**36**	**123**	**1,058**	**1,395**	**1,253**	-3,044
Long Term												
Full Simulation Period[a]	-3,311	-4,508	-3,898	-2,212	-1,156	-410	-181	-308	-411	**670**	**1,657**	-851
Water Year Types[b]												
Wet (31%)	-1,018	-2,388	-1,169	-592	**23**	**33**	**105**	**424**	**569**	**1,242**	**2,925**	-2,641
Above Normal (25%)	-2,767	-4,190	-5,121	-320	**22**	**20**	**98**	**209**	**647**	**1,187**	**1,268**	-4,191
Below Normal (6%)	-6,302	-7,579	-7,479	-3,576	-281	**118**	**54**	**250**	-30	**1,469**	**2,479**	**1,156**
Dry (13%)	-6,129	-6,099	-4,936	-3,662	-2,057	-534	-381	**16**	**345**	**933**	**1,921**	**1,751**
Critical (25%)	-2,511	-4,444	-4,044	-2,833	-2,024	-943	-410	-1,471	-2,298	-366	**424**	-565

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-38-13. Sacramento River at Mallard Slough, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,122	14,069	12,333	9,904	8,297	4,059	4,600	7,163	10,179	11,603	11,627	13,190
20%	13,584	13,673	12,070	8,056	6,682	3,221	3,775	6,336	8,297	10,291	11,148	12,948
30%	13,405	13,295	12,041	6,761	3,653	2,352	2,421	5,447	7,018	9,460	10,150	12,370
40%	13,211	13,140	11,204	5,512	3,558	1,376	1,923	3,332	5,656	8,317	9,439	11,941
50%	12,772	12,978	9,171	4,234	1,214	895	1,022	2,755	5,585	8,259	8,609	11,515
60%	11,718	12,740	8,086	3,402	663	334	689	1,717	4,059	6,402	8,162	11,000
70%	11,075	9,371	7,246	1,282	225	218	515	871	2,861	5,146	7,928	10,893
80%	10,674	7,398	1,490	351	216	208	381	747	2,161	4,326	7,794	10,135
90%	3,879	2,830	199	216	213	205	211	300	1,098	3,818	7,508	6,703
Long Term												
Full Simulation Period[a]	11,009	10,456	8,018	4,607	3,002	1,735	1,967	3,394	5,366	7,407	8,862	10,603
Water Year Types[b]												
Wet (31%)	7,319	5,554	2,062	1,042	210	210	363	711	1,907	3,470	5,971	6,344
Above Normal (25%)	13,938	12,767	9,645	667	221	208	322	623	1,847	4,306	7,871	10,288
Below Normal (6%)	11,300	12,740	12,379	5,512	849	334	802	899	3,007	6,402	8,316	11,941
Dry (13%)	11,788	11,518	8,960	6,320	3,932	1,457	1,675	3,482	5,880	8,496	9,059	11,483
Critical (25%)	12,107	12,146	10,506	7,484	6,033	4,069	4,375	7,077	9,603	11,127	11,523	13,165

Alternative 9 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,385	15,035	14,229	11,194	8,899	5,241	5,186	8,039	10,490	11,437	11,261	13,044
20%	13,910	13,874	13,120	7,727	7,067	4,402	3,868	6,936	8,693	10,997	10,781	12,960
30%	13,489	13,700	11,115	6,676	3,978	2,976	3,088	3,911	6,490	9,865	10,038	12,520
40%	13,056	13,524	9,362	5,417	3,326	1,782	2,501	3,614	5,915	9,621	9,881	12,427
50%	12,053	10,373	7,875	4,507	2,096	1,315	2,003	3,492	5,596	8,640	9,613	12,028
60%	6,064	6,102	7,530	4,139	888	420	1,592	3,017	5,157	7,739	8,983	11,512
70%	4,219	4,838	6,472	1,275	253	248	932	2,808	4,097	6,622	8,763	6,308
80%	2,927	3,607	3,520	397	224	206	621	1,933	3,784	5,006	8,623	4,172
90%	2,834	2,030	206	223	211	204	234	548	2,807	4,690	8,164	3,502
Long Term												
Full Simulation Period[a]	9,206	9,135	8,067	5,019	3,414	2,177	2,491	3,874	5,884	8,223	9,590	9,556
Water Year Types[b]												
Wet (31%)	7,483	5,806	2,490	1,197	221	218	656	1,874	2,970	4,708	8,418	3,621
Above Normal (25%)	14,096	14,415	11,115	584	236	217	528	1,360	3,673	5,526	8,382	6,308
Below Normal (6%)	6,064	6,102	8,213	4,316	888	420	1,592	3,017	3,784	7,739	10,043	12,992
Dry (13%)	6,368	7,342	8,337	6,853	4,114	1,901	2,270	3,357	5,833	9,252	9,785	12,395
Critical (25%)	11,528	11,729	11,065	8,524	7,186	5,101	5,101	7,066	9,560	11,387	10,764	12,645

Alternative 9 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**263**	**965**	**1,895**	**1,290**	**603**	**1,183**	**586**	**876**	**311**	-166	-366	-146
20%	**326**	**201**	**1,050**	-329	**385**	**1,181**	**94**	**601**	**396**	**706**	-367	**12**
30%	**84**	**405**	-926	-85	**325**	**624**	**667**	-1,536	-528	**405**	-112	**150**
40%	-155	**383**	-1,841	-95	-232	**406**	**579**	**282**	**259**	**1,304**	**442**	**486**
50%	-718	-2,604	-1,296	**273**	**883**	**421**	**981**	**737**	**11**	**381**	**1,005**	**513**
60%	-5,654	-6,638	-556	**736**	**225**	**86**	**903**	**1,300**	**1,098**	**1,337**	**822**	**512**
70%	-6,856	-4,533	-774	-8	**28**	**30**	**416**	**1,937**	**1,237**	**1,476**	**835**	-4,585
80%	-7,747	-3,791	**2,030**	**46**	**8**	-2	**239**	**1,186**	**1,623**	**680**	**829**	-5,962
90%	-1,045	-800	**7**	**7**	-1	-1	**23**	**248**	**1,709**	**872**	**656**	-3,201
Long Term												
Full Simulation Period[a]	-1,803	-1,320	**50**	**412**	**412**	**442**	**524**	**480**	**518**	**816**	**728**	-1,047
Water Year Types[b]												
Wet (31%)	**164**	**252**	**428**	**155**	**10**	**8**	**293**	**1,162**	**1,064**	**1,239**	**2,447**	-2,723
Above Normal (25%)	**157**	**1,648**	**1,470**	-84	**15**	**9**	**206**	**737**	**1,826**	**1,220**	**511**	-3,979
Below Normal (6%)	-5,235	-6,638	-4,166	-1,196	**39**	**86**	**790**	**2,118**	**778**	**1,337**	**1,727**	**1,052**
Dry (13%)	-5,420	-4,176	-623	**534**	**181**	**443**	**595**	-125	-47	**756**	**727**	**912**
Critical (25%)	-579	-417	**560**	**1,040**	**1,153**	**1,032**	**726**	-11	-42	**260**	-759	-520

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-38-14. Sacramento River at Mallard Slough, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,228	14,006	13,056	8,727	8,514	5,581	5,145	7,755	10,610	10,994	11,682	13,518
20%	12,485	12,683	11,953	7,995	4,776	4,232	4,809	6,713	8,320	9,136	10,380	13,182
30%	12,259	12,426	10,108	6,172	4,395	2,992	3,446	4,760	6,910	8,985	9,790	12,839
40%	11,848	12,167	8,038	5,746	4,018	1,531	2,286	4,662	6,567	8,521	9,320	12,403
50%	11,440	9,466	7,777	5,019	2,235	1,459	1,627	3,923	5,750	7,585	8,141	12,113
60%	6,284	6,399	7,472	3,683	1,154	531	1,141	2,423	4,903	5,291	7,833	11,425
70%	4,405	5,130	6,650	1,365	252	256	694	2,081	4,419	4,519	7,305	6,043
80%	2,881	3,656	3,651	327	212	205	513	1,312	3,382	4,120	7,212	4,051
90%	2,840	1,983	220	212	208	204	224	480	2,493	3,305	7,119	3,222
Long Term												
Full Simulation Period[a]	8,694	8,518	7,508	4,564	3,244	2,150	2,423	3,948	6,023	7,029	8,841	9,622
Water Year Types[b]												
Wet (31%)	7,485	5,684	2,165	1,077	218	227	508	1,458	3,009	3,524	7,082	3,392
Above Normal (25%)	12,515	12,541	9,799	624	226	207	423	990	3,472	4,050	7,204	6,043
Below Normal (6%)	6,284	6,399	8,552	4,898	1,240	531	1,182	2,097	3,382	7,367	9,320	12,403
Dry (13%)	5,972	6,918	7,655	6,981	4,441	2,064	2,441	4,087	6,205	7,664	8,624	12,159
Critical (25%)	10,792	10,881	10,538	6,931	6,316	4,858	4,990	7,383	9,836	10,449	10,980	13,451

Alternative 1A,1B,1C (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	12,505	12,719	11,721	8,550	6,764	5,516	5,800	8,791	11,537	12,355	12,816	13,561
20%	12,318	12,415	11,250	7,655	5,726	4,723	5,328	7,495	8,755	11,464	11,874	13,187
30%	11,660	11,071	10,463	6,150	5,424	3,167	3,614	5,265	7,724	10,146	11,481	12,959
40%	10,977	10,407	9,896	5,526	3,931	2,507	3,193	5,195	6,541	9,842	10,972	12,691
50%	9,797	9,196	9,568	5,335	2,546	2,103	2,606	5,028	6,011	8,653	10,048	12,369
60%	9,562	8,469	8,339	4,590	1,166	521	1,895	4,589	5,874	6,529	9,576	12,272
70%	7,723	7,732	7,372	1,678	292	296	924	2,696	5,053	6,247	9,230	12,215
80%	6,160	6,790	4,865	536	268	220	687	2,552	4,595	5,831	8,730	11,389
90%	5,460	3,384	235	234	227	215	268	802	2,562	5,377	8,490	10,411
Long Term												
Full Simulation Period[a]	9,404	8,871	7,836	4,566	3,184	2,352	2,848	4,714	6,576	8,389	10,413	12,006
Water Year Types[b]												
Wet (31%)	7,958	4,871	1,962	1,499	249	241	741	2,183	3,273	4,786	8,821	10,822
Above Normal (25%)	9,682	10,619	9,118	588	259	238	599	1,884	4,186	6,135	9,230	12,481
Below Normal (6%)	5,998	7,278	10,572	5,354	1,166	521	2,206	4,589	4,595	8,097	11,243	13,836
Dry (13%)	11,620	11,389	9,301	6,163	4,599	2,617	2,801	4,488	6,427	8,886	10,008	11,969
Critical (25%)	9,359	9,678	10,305	7,177	5,973	5,039	5,600	8,078	10,691	11,835	12,316	12,426

Alternative 1A,1B,1C (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-723	-1,287	-1,334	-176	-1,750	-65	**655**	**1,036**	**927**	**1,362**	**1,134**	**43**
20%	-167	-268	-703	-340	**950**	**491**	**519**	**782**	**435**	**2,327**	**1,494**	**5**
30%	-599	-1,356	**354**	-22	**1,029**	**175**	**168**	**506**	**815**	**1,161**	**1,691**	**120**
40%	-871	-1,760	**1,858**	-220	-87	**976**	**907**	**533**	-26	**1,321**	**1,652**	**288**
50%	-1,643	-270	**1,791**	**316**	**311**	**644**	**979**	**1,105**	**261**	**1,067**	**1,907**	**256**
60%	**3,279**	**2,070**	**867**	**908**	**12**	-10	**753**	**2,166**	**971**	**1,238**	**1,743**	**846**
70%	**3,318**	**2,602**	**721**	**312**	**40**	**40**	**229**	**615**	**634**	**1,728**	**1,926**	**6,172**
80%	**3,279**	**3,134**	**1,214**	**209**	**56**	**15**	**174**	**1,240**	**1,214**	**1,711**	**1,518**	**7,338**
90%	**2,620**	**1,402**	**15**	**22**	**19**	**11**	**45**	**322**	**69**	**2,072**	**1,371**	**7,188**
Long Term												
Full Simulation Period[a]	**710**	**353**	**329**	**2**	-60	**202**	**425**	**766**	**554**	**1,360**	**1,572**	**2,384**
Water Year Types[b]												
Wet (31%)	**473**	-813	-204	**422**	**31**	**14**	**234**	**725**	**265**	**1,262**	**1,740**	**7,430**
Above Normal (25%)	-2,834	-1,922	-682	-37	**33**	**31**	**176**	**894**	**714**	**2,085**	**2,026**	**6,438**
Below Normal (6%)	-286	**879**	**2,020**	**456**	-74	-10	**1,023**	**2,492**	**1,214**	**729**	**1,922**	**1,434**
Dry (13%)	**5,649**	**4,471**	**1,646**	-818	**158**	**553**	**360**	**401**	**222**	**1,222**	**1,384**	-190
Critical (25%)	-1,433	-1,203	-233	**247**	-343	**181**	**610**	**695**	**854**	**1,386**	**1,336**	-1,025

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-38-15. Sacramento River at Mallard Slough, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,228	14,006	13,056	8,727	8,514	5,581	5,145	7,755	10,610	10,994	11,682	13,518
20%	12,485	12,683	11,953	7,995	4,776	4,232	4,809	6,713	8,320	9,136	10,380	13,182
30%	12,259	12,426	10,108	6,172	4,395	2,992	3,446	4,760	6,910	8,985	9,790	12,839
40%	11,848	12,167	8,038	5,746	4,018	1,531	2,286	4,662	6,567	8,521	9,320	12,403
50%	11,440	9,466	7,777	5,019	2,235	1,459	1,627	3,923	5,750	7,585	8,141	12,113
60%	6,284	6,399	7,472	3,683	1,154	531	1,141	2,423	4,903	5,291	7,833	11,425
70%	4,405	5,130	6,650	1,365	252	256	694	2,081	4,419	4,519	7,305	6,043
80%	2,881	3,656	3,651	327	212	205	513	1,312	3,382	4,120	7,212	4,051
90%	2,840	1,983	220	212	208	204	224	480	2,493	3,305	7,119	3,222
Long Term												
Full Simulation Period[a]	8,694	8,518	7,508	4,564	3,244	2,150	2,423	3,948	6,023	7,029	8,841	9,622
Water Year Types[b]												
Wet (31%)	7,485	5,684	2,165	1,077	218	227	508	1,458	3,009	3,524	7,082	3,392
Above Normal (25%)	12,515	12,541	9,799	624	226	207	423	990	3,472	4,050	7,204	6,043
Below Normal (6%)	6,284	6,399	8,552	4,898	1,240	531	1,182	2,097	3,382	7,367	9,320	12,403
Dry (13%)	5,972	6,918	7,655	6,981	4,441	2,064	2,441	4,087	6,205	7,664	8,624	12,159
Critical (25%)	10,792	10,881	10,538	6,931	6,316	4,858	4,990	7,383	9,836	10,449	10,980	13,451

Alternative 2A,2B,2C (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	11,885	13,080	11,113	6,720	6,854	5,172	5,766	8,768	11,566	12,390	12,708	13,480
20%	9,469	10,748	8,811	5,757	5,076	4,596	5,239	7,307	8,910	11,583	12,128	13,235
30%	9,251	9,626	8,544	5,188	3,611	3,134	3,751	4,977	7,562	9,833	11,407	12,727
40%	8,855	8,880	8,098	4,992	3,208	2,346	3,176	4,834	6,513	9,708	10,442	12,089
50%	7,942	7,067	7,300	4,256	2,402	2,015	2,039	4,229	5,980	8,639	10,060	11,805
60%	5,609	5,713	6,789	3,284	1,463	849	1,415	2,560	5,788	6,605	9,659	10,311
70%	4,002	4,710	6,094	1,490	295	298	878	2,457	4,271	5,993	8,981	6,110
80%	2,959	3,679	2,632	399	252	221	624	1,657	3,680	5,895	8,770	4,247
90%	2,896	2,080	227	232	227	215	269	589	2,440	5,386	8,739	3,684
Long Term												
Full Simulation Period[a]	7,163	7,344	6,642	3,691	2,809	2,307	2,742	4,301	6,387	8,331	10,403	9,543
Water Year Types[b]												
Wet (31%)	5,745	4,993	1,955	1,156	245	242	606	1,731	3,208	4,847	8,904	3,776
Above Normal (25%)	9,789	10,810	8,454	557	262	239	578	1,205	3,325	5,823	8,981	6,110
Below Normal (6%)	5,609	5,713	8,297	4,565	1,463	849	1,512	2,560	3,680	7,801	11,115	13,707
Dry (13%)	5,535	6,657	6,286	5,256	4,049	2,547	2,754	4,199	6,374	8,937	10,198	12,253
Critical (25%)	8,859	8,714	9,619	5,547	5,158	4,887	5,553	8,024	10,708	11,743	12,193	12,529

Alternative 2A,2B,2C (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,344	-926	-1,943	-2,007	-1,660	-409	**621**	**1,013**	**956**	**1,396**	**1,026**	-39
20%	-3,016	-1,935	-3,143	-2,238	**301**	**364**	**431**	**594**	**589**	**2,447**	**1,748**	**52**
30%	-3,008	-2,800	-1,564	-984	-784	**142**	**305**	**218**	**652**	**848**	**1,618**	-113
40%	-2,993	-3,287	**60**	-754	-810	**815**	**890**	**172**	-54	**1,187**	**1,122**	-313
50%	-3,498	-2,399	-477	-763	**167**	**556**	**412**	**306**	**230**	**1,054**	**1,919**	-308
60%	-675	-686	-683	-398	**309**	**318**	**274**	**137**	**885**	**1,314**	**1,825**	-1,115
70%	-403	-419	-556	**125**	**42**	**42**	**184**	**376**	-147	**1,475**	**1,676**	**67**
80%	**78**	**23**	-1,019	**73**	**40**	**16**	**111**	**345**	**298**	**1,775**	**1,558**	**197**
90%	**56**	**97**	**7**	**20**	**20**	**11**	**46**	**109**	-54	**2,080**	**1,620**	**462**
Long Term												
Full Simulation Period[a]	-1,531	-1,174	-866	-873	-435	**157**	**319**	**352**	**365**	**1,302**	**1,562**	-79
Water Year Types[b]												
Wet (31%)	-1,740	-690	-210	**79**	**27**	**15**	**98**	**273**	**199**	**1,323**	**1,822**	**384**
Above Normal (25%)	-2,726	-1,731	-1,345	-68	**36**	**32**	**155**	**214**	-147	**1,773**	**1,776**	**67**
Below Normal (6%)	-675	-686	-256	-333	**223**	**318**	**330**	**464**	**298**	**434**	**1,794**	**1,304**
Dry (13%)	-436	-261	-1,369	-1,724	-392	**483**	**313**	**113**	**169**	**1,273**	**1,574**	**94**
Critical (25%)	-1,933	-2,167	-919	-1,384	-1,158	**29**	**563**	**640**	**872**	**1,294**	**1,214**	-922

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-38-16. Sacramento River at Mallard Slough, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,228	14,006	13,056	8,727	8,514	5,581	5,145	7,755	10,610	10,994	11,682	13,518
20%	12,485	12,683	11,953	7,995	4,776	4,232	4,809	6,713	8,320	9,136	10,380	13,182
30%	12,259	12,426	10,108	6,172	4,395	2,992	3,446	4,760	6,910	8,985	9,790	12,839
40%	11,848	12,167	8,038	5,746	4,018	1,531	2,286	4,662	6,567	8,521	9,320	12,403
50%	11,440	9,466	7,777	5,019	2,235	1,459	1,627	3,923	5,750	7,585	8,141	12,113
60%	6,284	6,399	7,472	3,683	1,154	531	1,141	2,423	4,903	5,291	7,833	11,425
70%	4,405	5,130	6,650	1,365	252	256	694	2,081	4,419	4,519	7,305	6,043
80%	2,881	3,656	3,651	327	212	205	513	1,312	3,382	4,120	7,212	4,051
90%	2,840	1,983	220	212	208	204	224	480	2,493	3,305	7,119	3,222
Long Term												
Full Simulation Period[a]	8,694	8,518	7,508	4,564	3,244	2,150	2,423	3,948	6,023	7,029	8,841	9,622
Water Year Types[b]												
Wet (31%)	7,485	5,684	2,165	1,077	218	227	508	1,458	3,009	3,524	7,082	3,392
Above Normal (25%)	12,515	12,541	9,799	624	226	207	423	990	3,472	4,050	7,204	6,043
Below Normal (6%)	6,284	6,399	8,552	4,898	1,240	531	1,182	2,097	3,382	7,367	9,320	12,403
Dry (13%)	5,972	6,918	7,655	6,981	4,441	2,064	2,441	4,087	6,205	7,664	8,624	12,159
Critical (25%)	10,792	10,881	10,538	6,931	6,316	4,858	4,990	7,383	9,836	10,449	10,980	13,451

Alternative 3 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	12,655	12,431	11,907	7,658	6,673	5,466	5,847	8,940	11,458	12,290	12,813	13,417
20%	12,408	11,960	11,478	7,416	6,012	4,704	5,309	7,480	8,671	11,410	11,749	13,254
30%	11,684	11,472	10,767	6,719	5,233	2,907	3,573	5,289	7,677	9,973	11,309	13,031
40%	10,870	10,472	9,891	5,689	4,003	2,172	3,210	5,172	6,508	9,722	10,658	12,745
50%	9,264	9,201	9,017	5,035	2,426	1,907	2,572	5,054	6,280	8,706	10,080	12,474
60%	8,860	8,185	8,737	4,454	1,297	528	1,909	4,585	5,854	6,570	9,321	12,258
70%	7,196	7,504	7,309	1,549	271	279	931	2,738	5,138	6,330	9,133	11,801
80%	5,865	6,129	4,827	472	237	214	770	2,568	4,588	5,869	8,745	11,377
90%	5,213	3,351	223	221	215	212	253	850	2,565	5,325	8,723	10,778
Long Term												
Full Simulation Period[a]	9,220	8,718	7,901	4,365	3,022	2,284	2,856	4,752	6,597	8,390	10,383	12,009
Water Year Types[b]												
Wet (31%)	7,733	5,415	2,144	1,275	233	239	766	2,206	3,333	4,819	8,802	10,685
Above Normal (25%)	9,353	9,863	8,852	601	239	218	577	1,932	4,215	6,139	9,155	12,377
Below Normal (6%)	7,270	8,084	10,952	5,436	1,297	528	2,204	4,585	4,588	8,134	11,205	13,929
Dry (13%)	11,687	11,180	9,195	6,474	4,525	2,379	2,760	4,503	6,518	8,873	10,073	12,186
Critical (25%)	8,774	9,058	10,481	6,441	5,510	5,021	5,645	8,148	10,626	11,811	12,222	12,396

Alternative 3 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-573	-1,575	-1,149	-1,068	-1,840	-115	**702**	**1,185**	**848**	**1,297**	**1,131**	-101
20%	-77	-723	-475	-579	**1,236**	**472**	**501**	**768**	**351**	**2,273**	**1,369**	**72**
30%	-574	-954	**659**	**547**	**839**	-85	**127**	**530**	**767**	**988**	**1,520**	**192**
40%	-978	-1,695	**1,853**	-57	-15	**641**	**924**	**510**	-59	**1,201**	**1,338**	**342**
50%	-2,176	-265	**1,241**	**16**	**191**	**448**	**946**	**1,131**	**530**	**1,121**	**1,939**	**361**
60%	**2,577**	**1,786**	**1,265**	**771**	**143**	-3	**768**	**2,162**	**951**	**1,279**	**1,488**	**833**
70%	**2,791**	**2,374**	**659**	**183**	**18**	**23**	**237**	**657**	**719**	**1,812**	**1,828**	**5,758**
80%	**2,984**	**2,474**	**1,176**	**146**	**25**	**10**	**257**	**1,257**	**1,206**	**1,749**	**1,533**	**7,326**
90%	**2,373**	**1,368**	**3**	**9**	**7**	**8**	**29**	**369**	**72**	**2,020**	**1,604**	**7,555**
Long Term												
Full Simulation Period[a]	**527**	**199**	**393**	-199	-222	**134**	**432**	**804**	**574**	**1,361**	**1,542**	**2,387**
Water Year Types[b]												
Wet (31%)	**248**	-268	-21	**198**	**15**	**13**	**258**	**749**	**324**	**1,295**	**1,721**	**7,293**
Above Normal (25%)	-3,162	-2,678	-947	-23	**13**	**11**	**154**	**941**	**743**	**2,090**	**1,950**	**6,334**
Below Normal (6%)	**986**	**1,685**	**2,399**	**538**	**58**	-3	**1,022**	**2,488**	**1,206**	**767**	**1,885**	**1,527**
Dry (13%)	**5,715**	**4,262**	**1,540**	-507	**84**	**315**	**319**	**417**	**313**	**1,209**	**1,450**	**27**
Critical (25%)	-2,018	-1,823	-56	-489	-806	**163**	**655**	**765**	**790**	**1,362**	**1,242**	-1,055

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-38-17. Sacramento River at Mallard Slough, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,228	14,006	13,056	8,727	8,514	5,581	5,145	7,755	10,610	10,994	11,682	13,518
20%	12,485	12,683	11,953	7,995	4,776	4,232	4,809	6,713	8,320	9,136	10,380	13,182
30%	12,259	12,426	10,108	6,172	4,395	2,992	3,446	4,760	6,910	8,985	9,790	12,839
40%	11,848	12,167	8,038	5,746	4,018	1,531	2,286	4,662	6,567	8,521	9,320	12,403
50%	11,440	9,466	7,777	5,019	2,235	1,459	1,627	3,923	5,750	7,585	8,141	12,113
60%	6,284	6,399	7,472	3,683	1,154	531	1,141	2,423	4,903	5,291	7,833	11,425
70%	4,405	5,130	6,650	1,365	252	256	694	2,081	4,419	4,519	7,305	6,043
80%	2,881	3,656	3,651	327	212	205	513	1,312	3,382	4,120	7,212	4,051
90%	2,840	1,983	220	212	208	204	224	480	2,493	3,305	7,119	3,222
Long Term												
Full Simulation Period[a]	8,694	8,518	7,508	4,564	3,244	2,150	2,423	3,948	6,023	7,029	8,841	9,622
Water Year Types[b]												
Wet (31%)	7,485	5,684	2,165	1,077	218	227	508	1,458	3,009	3,524	7,082	3,392
Above Normal (25%)	12,515	12,541	9,799	624	226	207	423	990	3,472	4,050	7,204	6,043
Below Normal (6%)	6,284	6,399	8,552	4,898	1,240	531	1,182	2,097	3,382	7,367	9,320	12,403
Dry (13%)	5,972	6,918	7,655	6,981	4,441	2,064	2,441	4,087	6,205	7,664	8,624	12,159
Critical (25%)	10,792	10,881	10,538	6,931	6,316	4,858	4,990	7,383	9,836	10,449	10,980	13,451

Alternative 4 H1 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	11,858	13,388	11,877	6,345	6,403	5,010	5,796	8,668	11,547	12,419	12,743	13,300
20%	11,177	11,181	11,068	5,457	4,617	4,771	5,300	7,328	8,648	11,395	12,153	13,171
30%	10,360	10,416	10,109	5,253	3,788	3,103	3,707	5,059	7,620	9,997	11,258	12,902
40%	9,740	9,728	9,280	4,405	3,243	2,202	3,023	4,891	7,008	9,717	10,644	12,565
50%	9,423	9,540	8,936	3,914	2,247	1,877	1,962	4,345	6,075	8,378	10,116	12,486
60%	9,318	9,299	8,280	3,032	1,312	655	1,416	2,565	5,792	6,591	9,088	12,003
70%	8,858	8,078	6,811	1,487	283	293	910	2,444	4,271	6,177	9,014	11,839
80%	7,902	6,621	2,331	385	237	219	620	1,701	3,414	5,896	8,801	11,681
90%	7,219	3,922	210	224	214	213	267	570	2,438	5,148	8,583	10,079
Long Term												
Full Simulation Period[a]	9,439	8,950	7,464	3,699	2,803	2,260	2,729	4,319	6,403	8,337	10,358	11,870
Water Year Types[b]												
Wet (31%)	7,557	4,989	1,917	1,089	236	242	605	1,714	3,191	4,833	8,811	10,773
Above Normal (25%)	10,099	11,061	8,585	535	247	229	582	1,228	3,358	5,802	8,920	12,237
Below Normal (6%)	7,813	8,421	11,068	5,137	1,312	655	1,426	2,565	3,414	7,575	11,055	13,702
Dry (13%)	10,633	10,338	8,285	5,273	3,956	2,431	2,728	4,304	6,575	8,844	10,018	11,533
Critical (25%)	10,052	10,270	10,075	5,506	5,254	4,869	5,550	8,001	10,651	11,902	12,305	12,505

Alternative 4 H1 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,370	-618	-1,179	-2,381	-2,110	-570	**651**	**913**	**937**	**1,425**	**1,061**	-219
20%	-1,308	-1,502	-885	-2,538	-158	**539**	**491**	**615**	**328**	**2,259**	**1,773**	-11
30%	-1,899	-2,010	**1**	-919	-607	**111**	**261**	**300**	**710**	**1,012**	**1,469**	**63**
40%	-2,107	-2,438	**1,242**	-1,341	-775	**671**	**738**	**229**	**441**	**1,196**	**1,323**	**162**
50%	-2,017	**74**	**1,159**	-1,105	**12**	**418**	**336**	**422**	**325**	**793**	**1,975**	**373**
60%	**3,034**	**2,900**	**807**	-651	**158**	**124**	**275**	**142**	**889**	**1,299**	**1,255**	**578**
70%	**4,453**	**2,948**	**160**	**121**	**30**	**37**	**215**	**363**	-148	**1,658**	**1,709**	**5,796**
80%	**5,021**	**2,965**	-1,320	**59**	**25**	**14**	**107**	**390**	**32**	**1,776**	**1,589**	**7,631**
90%	**4,379**	**1,939**	-10	**12**	**7**	**9**	**43**	**90**	-55	**1,843**	**1,464**	**6,857**
Long Term												
Full Simulation Period[a]	**746**	**431**	-44	-865	-441	**110**	**306**	**370**	**381**	**1,309**	**1,518**	**2,249**
Water Year Types[b]												
Wet (31%)	**73**	-695	-249	**13**	**18**	**16**	**97**	**256**	**183**	**1,310**	**1,729**	**7,381**
Above Normal (25%)	-2,416	-1,481	-1,214	-90	**21**	**22**	**158**	**238**	-114	**1,752**	**1,716**	**6,194**
Below Normal (6%)	**1,529**	**2,021**	**2,516**	**239**	**73**	**124**	**244**	**468**	**32**	**208**	**1,735**	**1,300**
Dry (13%)	**4,661**	**3,420**	**630**	-1,708	-485	**367**	**287**	**217**	**370**	**1,180**	**1,394**	-626
Critical (25%)	-740	-611	-463	-1,424	-1,062	**11**	**559**	**618**	**815**	**1,453**	**1,325**	-946

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-38-18. Sacramento River at Mallard Slough, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,228	14,006	13,056	8,727	8,514	5,581	5,145	7,755	10,610	10,994	11,682	13,518
20%	12,485	12,683	11,953	7,995	4,776	4,232	4,809	6,713	8,320	9,136	10,380	13,182
30%	12,259	12,426	10,108	6,172	4,395	2,992	3,446	4,760	6,910	8,985	9,790	12,839
40%	11,848	12,167	8,038	5,746	4,018	1,531	2,286	4,662	6,567	8,521	9,320	12,403
50%	11,440	9,466	7,777	5,019	2,235	1,459	1,627	3,923	5,750	7,585	8,141	12,113
60%	6,284	6,399	7,472	3,683	1,154	531	1,141	2,423	4,903	5,291	7,833	11,425
70%	4,405	5,130	6,650	1,365	252	256	694	2,081	4,419	4,519	7,305	6,043
80%	2,881	3,656	3,651	327	212	205	513	1,312	3,382	4,120	7,212	4,051
90%	2,840	1,983	220	212	208	204	224	480	2,493	3,305	7,119	3,222
Long Term												
Full Simulation Period[a]	8,694	8,518	7,508	4,564	3,244	2,150	2,423	3,948	6,023	7,029	8,841	9,622
Water Year Types[b]												
Wet (31%)	7,485	5,684	2,165	1,077	218	227	508	1,458	3,009	3,524	7,082	3,392
Above Normal (25%)	12,515	12,541	9,799	624	226	207	423	990	3,472	4,050	7,204	6,043
Below Normal (6%)	6,284	6,399	8,552	4,898	1,240	531	1,182	2,097	3,382	7,367	9,320	12,403
Dry (13%)	5,972	6,918	7,655	6,981	4,441	2,064	2,441	4,087	6,205	7,664	8,624	12,159
Critical (25%)	10,792	10,881	10,538	6,931	6,316	4,858	4,990	7,383	9,836	10,449	10,980	13,451

Alternative 4 H2 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	11,866	13,246	11,904	7,562	6,519	4,904	5,470	8,587	11,434	12,162	12,629	13,482
20%	11,478	12,045	11,213	6,826	4,751	4,272	5,180	7,026	8,804	11,563	12,511	13,300
30%	10,263	10,964	10,936	5,796	4,050	2,989	3,531	5,029	7,585	9,943	11,183	12,633
40%	10,128	9,984	10,544	4,968	3,344	2,197	3,098	4,938	7,012	9,797	10,778	12,368
50%	9,962	9,306	9,009	4,260	2,396	1,845	1,933	3,711	6,342	8,715	10,015	12,303
60%	8,870	8,568	8,002	2,712	1,175	628	990	2,258	4,431	7,220	9,597	11,901
70%	8,479	7,756	6,706	1,421	281	295	465	1,811	3,794	6,124	9,322	11,833
80%	7,737	6,260	2,098	363	240	218	336	757	3,160	6,047	9,011	11,576
90%	6,583	3,414	206	224	216	213	223	473	2,459	5,454	8,810	11,114
Long Term												
Full Simulation Period[a]	9,355	8,885	7,640	3,872	2,816	2,184	2,553	4,038	6,270	8,464	10,445	11,947
Water Year Types[b]												
Wet (31%)	7,704	4,861	1,944	1,146	238	242	328	1,050	2,710	4,823	8,877	10,360
Above Normal (25%)	9,923	10,851	8,238	489	246	232	295	659	3,013	6,088	9,322	12,175
Below Normal (6%)	11,759	12,045	10,998	4,593	1,175	628	1,374	2,258	3,502	7,788	11,130	13,715
Dry (13%)	10,155	10,070	8,623	5,879	4,182	2,356	2,636	4,337	6,699	9,187	10,156	12,493
Critical (25%)	9,329	9,737	10,501	5,658	5,142	4,690	5,404	7,896	10,630	11,885	12,242	12,335

Alternative 4 H2 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,362	-760	-1,152	-1,165	-1,994	-677	**325**	**832**	**824**	**1,168**	**947**	-36
20%	-1,007	-638	-740	-1,169	-25	**39**	**371**	**314**	**484**	**2,426**	**2,131**	**117**
30%	-1,995	-1,462	**828**	-375	-345	-3	**85**	**270**	**675**	**958**	**1,394**	-206
40%	-1,719	-2,182	**2,506**	-778	-674	**666**	**812**	**276**	**445**	**1,276**	**1,458**	-34
50%	-1,477	-160	**1,232**	-759	**161**	**386**	**307**	-211	**592**	**1,130**	**1,874**	**190**
60%	**2,586**	**2,168**	**529**	-971	**21**	**97**	-151	-165	-472	**1,929**	**1,764**	**475**
70%	**4,074**	**2,627**	**55**	**56**	**29**	**39**	-229	-269	-625	**1,605**	**2,017**	**5,790**
80%	**4,856**	**2,605**	-1,553	**36**	**28**	**13**	-177	-555	-221	**1,927**	**1,799**	**7,526**
90%	**3,743**	**1,431**	-13	**12**	**8**	**9**	-1	-7	-34	**2,149**	**1,691**	**7,891**
Long Term												
Full Simulation Period[a]	**661**	**366**	**133**	-692	-428	**34**	**129**	**90**	**247**	**1,435**	**1,604**	**2,325**
Water Year Types[b]												
Wet (31%)	**219**	-823	-221	**69**	**19**	**15**	-179	-408	-298	**1,299**	**1,796**	**6,968**
Above Normal (25%)	-2,593	-1,690	-1,562	-135	**20**	**25**	-129	-331	-459	**2,038**	**2,118**	**6,132**
Below Normal (6%)	**5,475**	**5,646**	**2,445**	-305	-65	**97**	**191**	**161**	**121**	**421**	**1,809**	**1,313**
Dry (13%)	**4,183**	**3,152**	**968**	-1,102	-258	**292**	**196**	**250**	**494**	**1,523**	**1,532**	**334**
Critical (25%)	-1,463	-1,144	-37	-1,273	-1,174	-168	**414**	**513**	**794**	**1,436**	**1,263**	-1,116

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-38-19. Sacramento River at Mallard Slough, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,228	14,006	13,056	8,727	8,514	5,581	5,145	7,755	10,610	10,994	11,682	13,518
20%	12,485	12,683	11,953	7,995	4,776	4,232	4,809	6,713	8,320	9,136	10,380	13,182
30%	12,259	12,426	10,108	6,172	4,395	2,992	3,446	4,760	6,910	8,985	9,790	12,839
40%	11,848	12,167	8,038	5,746	4,018	1,531	2,286	4,662	6,567	8,521	9,320	12,403
50%	11,440	9,466	7,777	5,019	2,235	1,459	1,627	3,923	5,750	7,585	8,141	12,113
60%	6,284	6,399	7,472	3,683	1,154	531	1,141	2,423	4,903	5,291	7,833	11,425
70%	4,405	5,130	6,650	1,365	252	256	694	2,081	4,419	4,519	7,305	6,043
80%	2,881	3,656	3,651	327	212	205	513	1,312	3,382	4,120	7,212	4,051
90%	2,840	1,983	220	212	208	204	224	480	2,493	3,305	7,119	3,222
Long Term												
Full Simulation Period[a]	8,694	8,518	7,508	4,564	3,244	2,150	2,423	3,948	6,023	7,029	8,841	9,622
Water Year Types[b]												
Wet (31%)	7,485	5,684	2,165	1,077	218	227	508	1,458	3,009	3,524	7,082	3,392
Above Normal (25%)	12,515	12,541	9,799	624	226	207	423	990	3,472	4,050	7,204	6,043
Below Normal (6%)	6,284	6,399	8,552	4,898	1,240	531	1,182	2,097	3,382	7,367	9,320	12,403
Dry (13%)	5,972	6,918	7,655	6,981	4,441	2,064	2,441	4,087	6,205	7,664	8,624	12,159
Critical (25%)	10,792	10,881	10,538	6,931	6,316	4,858	4,990	7,383	9,836	10,449	10,980	13,451

Alternative 4 H3 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	12,046	13,112	10,554	6,697	7,141	5,149	5,765	8,751	11,570	12,462	12,698	13,323
20%	11,515	11,781	8,740	5,761	4,898	4,765	5,263	7,310	8,910	11,582	12,304	12,987
30%	10,205	10,259	8,343	5,147	3,957	3,129	3,737	4,992	7,571	10,218	11,439	12,625
40%	9,219	9,692	7,884	4,607	3,193	2,230	3,171	4,838	6,659	9,640	11,004	12,239
50%	7,757	6,632	7,289	3,782	2,340	1,859	2,021	4,263	6,088	8,543	10,080	11,619
60%	5,652	5,720	6,642	3,183	1,215	730	1,417	2,569	5,788	6,615	9,135	10,195
70%	3,971	4,698	6,081	1,418	282	293	905	2,462	4,283	6,032	8,964	6,050
80%	2,955	3,683	2,562	384	239	219	621	1,660	3,698	5,916	8,794	4,224
90%	2,885	2,063	211	224	214	214	267	570	2,428	5,138	8,735	3,630
Long Term												
Full Simulation Period[a]	7,370	7,499	6,509	3,610	2,854	2,304	2,748	4,306	6,414	8,373	10,427	9,462
Water Year Types[b]												
Wet (31%)	6,295	4,946	1,930	1,099	236	243	605	1,718	3,210	4,757	8,781	3,750
Above Normal (25%)	9,538	10,586	8,124	502	247	229	577	1,208	3,321	5,812	8,964	6,050
Below Normal (6%)	5,652	5,720	8,320	4,607	1,215	730	1,472	2,569	3,698	7,834	11,152	13,731
Dry (13%)	5,565	6,663	6,261	5,182	3,991	2,427	2,761	4,228	6,467	8,863	10,161	11,934
Critical (25%)	9,151	9,331	9,362	5,405	5,410	5,000	5,575	8,027	10,715	12,005	12,396	12,564

Alternative 4 H3 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,183	-894	-2,501	-2,029	-1,373	-432	**620**	**996**	**960**	**1,468**	**1,015**	-195
20%	-970	-902	-3,213	-2,234	**123**	**533**	**454**	**597**	**590**	**2,445**	**1,924**	-195
30%	-2,054	-2,167	-1,766	-1,024	-438	**137**	**292**	**232**	**661**	**1,233**	**1,649**	-214
40%	-2,629	-2,475	-154	-1,139	-825	**699**	**885**	**176**	**92**	**1,119**	**1,684**	-163
50%	-3,683	-2,833	-488	-1,237	**105**	**400**	**394**	**340**	**337**	**958**	**1,939**	-494
60%	-632	-679	-830	-500	**61**	**199**	**276**	**146**	**885**	**1,324**	**1,302**	-1,230
70%	-434	-432	-569	**52**	**30**	**38**	**211**	**381**	-136	**1,514**	**1,659**	**7**
80%	**74**	**27**	-1,089	**57**	**27**	**14**	**108**	**348**	**316**	**1,797**	**1,582**	**173**
90%	**45**	**80**	-9	**12**	**7**	**10**	**43**	**90**	-65	**1,832**	**1,616**	**407**
Long Term												
Full Simulation Period[a]	-1,324	-1,019	-999	-955	-390	**154**	**325**	**358**	**391**	**1,344**	**1,586**	-160
Water Year Types[b]												
Wet (31%)	-1,190	-737	-235	**22**	**18**	**16**	**98**	**261**	**201**	**1,233**	**1,699**	**358**
Above Normal (25%)	-2,977	-1,955	-1,675	-122	**21**	**22**	**154**	**217**	-151	**1,762**	**1,760**	**7**
Below Normal (6%)	-632	-679	-233	-291	-24	**199**	**289**	**472**	**316**	**466**	**1,832**	**1,328**
Dry (13%)	-407	-255	-1,394	-1,799	-450	**363**	**320**	**141**	**262**	**1,199**	**1,537**	-225
Critical (25%)	-1,641	-1,550	-1,176	-1,526	-906	**142**	**585**	**644**	**879**	**1,557**	**1,416**	-887

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-38-20. Sacramento River at Mallard Slough, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,228	14,006	13,056	8,727	8,514	5,581	5,145	7,755	10,610	10,994	11,682	13,518
20%	12,485	12,683	11,953	7,995	4,776	4,232	4,809	6,713	8,320	9,136	10,380	13,182
30%	12,259	12,426	10,108	6,172	4,395	2,992	3,446	4,760	6,910	8,985	9,790	12,839
40%	11,848	12,167	8,038	5,746	4,018	1,531	2,286	4,662	6,567	8,521	9,320	12,403
50%	11,440	9,466	7,777	5,019	2,235	1,459	1,627	3,923	5,750	7,585	8,141	12,113
60%	6,284	6,399	7,472	3,683	1,154	531	1,141	2,423	4,903	5,291	7,833	11,425
70%	4,405	5,130	6,650	1,365	252	256	694	2,081	4,419	4,519	7,305	6,043
80%	2,881	3,656	3,651	327	212	205	513	1,312	3,382	4,120	7,212	4,051
90%	2,840	1,983	220	212	208	204	224	480	2,493	3,305	7,119	3,222
Long Term												
Full Simulation Period[a]	8,694	8,518	7,508	4,564	3,244	2,150	2,423	3,948	6,023	7,029	8,841	9,622
Water Year Types[b]												
Wet (31%)	7,485	5,684	2,165	1,077	218	227	508	1,458	3,009	3,524	7,082	3,392
Above Normal (25%)	12,515	12,541	9,799	624	226	207	423	990	3,472	4,050	7,204	6,043
Below Normal (6%)	6,284	6,399	8,552	4,898	1,240	531	1,182	2,097	3,382	7,367	9,320	12,403
Dry (13%)	5,972	6,918	7,655	6,981	4,441	2,064	2,441	4,087	6,205	7,664	8,624	12,159
Critical (25%)	10,792	10,881	10,538	6,931	6,316	4,858	4,990	7,383	9,836	10,449	10,980	13,451

Alternative 4 H4 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	12,078	12,595	11,844	8,336	7,570	5,124	5,615	8,538	11,417	12,123	12,520	13,307
20%	10,787	11,384	9,847	6,811	6,356	4,619	5,147	7,029	8,806	11,567	11,983	12,414
30%	9,418	10,056	8,463	6,151	4,104	3,081	3,498	5,035	7,592	10,055	11,260	12,203
40%	8,247	8,354	7,906	4,924	3,229	2,235	3,031	4,947	7,030	9,937	10,813	11,937
50%	7,363	6,236	7,239	4,224	2,335	1,808	1,994	3,713	6,409	8,660	10,177	11,778
60%	5,548	5,503	6,455	3,200	1,176	726	995	2,355	4,509	7,182	9,647	11,664
70%	3,960	4,486	6,058	1,458	280	293	462	1,815	3,633	6,085	9,352	6,122
80%	2,930	3,649	2,557	358	243	218	336	756	3,140	5,996	8,967	4,207
90%	2,863	2,103	208	224	219	213	222	479	2,451	5,446	8,800	3,641
Long Term												
Full Simulation Period[a]	7,144	7,216	6,700	4,192	3,079	2,266	2,579	4,043	6,263	8,441	10,433	9,473
Water Year Types[b]												
Wet (31%)	5,814	4,563	1,924	1,150	239	242	327	1,075	2,728	4,788	8,897	3,742
Above Normal (25%)	9,708	10,603	8,264	505	245	231	294	665	3,019	6,085	9,352	6,122
Below Normal (6%)	5,548	5,733	8,304	4,509	1,176	726	1,426	2,262	3,140	7,385	10,901	13,772
Dry (13%)	5,522	6,633	6,504	5,353	4,084	2,346	2,638	4,345	6,730	9,288	10,261	12,583
Critical (25%)	8,798	8,745	9,729	7,109	6,061	4,942	5,478	7,884	10,638	11,838	12,137	12,051

Alternative 4 H4 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,150	-1,411	-1,212	-391	-943	-456	**470**	**783**	**807**	**1,130**	**838**	-211
20%	-1,698	-1,299	-2,107	-1,183	**1,581**	**387**	**338**	**317**	**486**	**2,430**	**1,603**	-768
30%	-2,840	-2,371	-1,645	-20	-291	**89**	**52**	**275**	**682**	**1,070**	**1,470**	-637
40%	-3,601	-3,813	-132	-822	-789	**704**	**745**	**285**	**463**	**1,416**	**1,493**	-465
50%	-4,077	-3,229	-538	-795	**100**	**349**	**367**	-210	**659**	**1,075**	**2,036**	-335
60%	-735	-897	-1,017	-482	**21**	**195**	-147	-68	-394	**1,891**	**1,814**	**239**
70%	-445	-644	-592	**93**	**27**	**38**	-232	-266	-786	**1,566**	**2,047**	**79**
80%	**49**	-6	-1,094	**31**	**31**	**13**	-177	-555	-242	**1,876**	**1,755**	**156**
90%	**23**	**121**	-12	**12**	**11**	**9**	-2	-2	-42	**2,141**	**1,681**	**419**
Long Term												
Full Simulation Period[a]	-1,550	-1,303	-808	-372	-165	**116**	**156**	**95**	**240**	**1,412**	**1,592**	-148
Water Year Types[b]												
Wet (31%)	-1,671	-1,120	-241	**73**	**21**	**15**	-181	-383	-280	**1,265**	**1,816**	**350**
Above Normal (25%)	-2,807	-1,939	-1,535	-120	**19**	**24**	-129	-326	-453	**2,035**	**2,148**	**79**
Below Normal (6%)	-735	-666	-249	-389	-64	**195**	**243**	**166**	-242	**18**	**1,580**	**1,370**
Dry (13%)	-450	-285	-1,151	-1,627	-357	**282**	**197**	**258**	**525**	**1,624**	**1,638**	**424**
Critical (25%)	-1,994	-2,136	-809	**178**	-254	**84**	**488**	**501**	**802**	**1,389**	**1,157**	-1,399

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-38-21. Sacramento River at Mallard Slough, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,228	14,006	13,056	8,727	8,514	5,581	5,145	7,755	10,610	10,994	11,682	13,518
20%	12,485	12,683	11,953	7,995	4,776	4,232	4,809	6,713	8,320	9,136	10,380	13,182
30%	12,259	12,426	10,108	6,172	4,395	2,992	3,446	4,760	6,910	8,985	9,790	12,839
40%	11,848	12,167	8,038	5,746	4,018	1,531	2,286	4,662	6,567	8,521	9,320	12,403
50%	11,440	9,466	7,777	5,019	2,235	1,459	1,627	3,923	5,750	7,585	8,141	12,113
60%	6,284	6,399	7,472	3,683	1,154	531	1,141	2,423	4,903	5,291	7,833	11,425
70%	4,405	5,130	6,650	1,365	252	256	694	2,081	4,419	4,519	7,305	6,043
80%	2,881	3,656	3,651	327	212	205	513	1,312	3,382	4,120	7,212	4,051
90%	2,840	1,983	220	212	208	204	224	480	2,493	3,305	7,119	3,222
Long Term												
Full Simulation Period[a]	8,694	8,518	7,508	4,564	3,244	2,150	2,423	3,948	6,023	7,029	8,841	9,622
Water Year Types[b]												
Wet (31%)	7,485	5,684	2,165	1,077	218	227	508	1,458	3,009	3,524	7,082	3,392
Above Normal (25%)	12,515	12,541	9,799	624	226	207	423	990	3,472	4,050	7,204	6,043
Below Normal (6%)	6,284	6,399	8,552	4,898	1,240	531	1,182	2,097	3,382	7,367	9,320	12,403
Dry (13%)	5,972	6,918	7,655	6,981	4,441	2,064	2,441	4,087	6,205	7,664	8,624	12,159
Critical (25%)	10,792	10,881	10,538	6,931	6,316	4,858	4,990	7,383	9,836	10,449	10,980	13,451

Alternative 5 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	12,834	12,515	11,910	8,379	7,342	5,701	5,487	8,403	11,325	12,091	12,709	13,284
20%	12,619	11,015	11,344	7,985	5,341	4,544	4,823	7,382	8,937	11,452	12,192	12,952
30%	11,426	10,364	8,602	6,291	4,836	3,431	3,746	5,097	7,816	9,896	11,262	12,692
40%	9,308	9,045	8,452	5,312	3,752	2,124	2,804	5,040	7,179	9,393	10,000	12,346
50%	8,860	8,698	7,712	5,164	2,448	1,807	1,997	4,478	6,367	8,404	9,596	11,866
60%	6,235	5,909	7,386	4,913	1,468	725	1,394	2,584	5,787	6,805	9,540	11,123
70%	4,422	4,833	6,458	1,395	264	271	901	2,514	4,715	6,461	9,149	6,028
80%	2,962	3,770	3,979	377	236	211	632	1,741	3,722	5,768	8,696	4,229
90%	2,894	2,124	219	217	211	210	236	591	2,573	5,324	8,512	3,523
Long Term												
Full Simulation Period[a]	7,995	7,627	7,124	4,418	3,116	2,359	2,652	4,334	6,557	8,318	10,268	9,531
Water Year Types[b]												
Wet (31%)	7,676	5,569	2,269	1,414	229	236	602	1,748	3,270	4,957	8,840	3,685
Above Normal (25%)	11,867	12,527	8,602	480	234	213	523	1,284	3,774	5,964	8,863	6,028
Below Normal (6%)	6,235	5,909	8,015	4,913	1,468	725	1,428	2,536	3,722	7,728	10,539	13,316
Dry (13%)	6,102	6,544	7,729	7,202	4,675	2,567	2,774	4,435	6,783	8,919	9,962	12,274
Critical (25%)	8,569	8,524	9,756	6,072	5,661	5,075	5,291	7,902	10,687	11,584	12,163	12,658

Alternative 5 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-394	-1,491	-1,146	-347	-1,171	**121**	**342**	**648**	**715**	**1,097**	**1,026**	-235
20%	**133**	-1,668	-609	-10	**565**	**312**	**14**	**669**	**617**	**2,315**	**1,812**	-231
30%	-832	-2,062	-1,506	**120**	**441**	**439**	**300**	**337**	**906**	**911**	**1,472**	-147
40%	-2,540	-3,121	**414**	-434	-266	**593**	**518**	**378**	**612**	**872**	**680**	-57
50%	-2,580	-767	-65	**145**	**213**	**348**	**370**	**556**	**617**	**819**	**1,455**	-247
60%	-49	-490	-87	**1,230**	**313**	**194**	**253**	**161**	**884**	**1,513**	**1,707**	-303
70%	**17**	-297	-192	**30**	**12**	**15**	**207**	**433**	**296**	**1,942**	**1,844**	-15
80%	**81**	**114**	**328**	**51**	**23**	**6**	**119**	**429**	**340**	**1,648**	**1,484**	**179**
90%	**54**	**141**	-1	**5**	**4**	**6**	**12**	**110**	**80**	**2,018**	**1,393**	**300**
Long Term												
Full Simulation Period[a]	-698	-891	-383	-146	-128	**209**	**229**	**386**	**535**	**1,289**	**1,427**	-91
Water Year Types[b]												
Wet (31%)	**191**	-115	**103**	**337**	**10**	**9**	**94**	**291**	**262**	**1,433**	**1,759**	**293**
Above Normal (25%)	-648	-14	-1,197	-144	**8**	**5**	**100**	**293**	**301**	**1,914**	**1,658**	-15
Below Normal (6%)	-49	-490	-538	**15**	**228**	**194**	**246**	**440**	**340**	**361**	**1,219**	**913**
Dry (13%)	**130**	-374	**74**	**221**	**234**	**503**	**333**	**349**	**578**	**1,255**	**1,338**	**115**
Critical (25%)	-2,223	-2,357	-782	-858	-655	**217**	**301**	**519**	**851**	**1,135**	**1,183**	-793

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-38-22. Sacramento River at Mallard Slough, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,228	14,006	13,056	8,727	8,514	5,581	5,145	7,755	10,610	10,994	11,682	13,518
20%	12,485	12,683	11,953	7,995	4,776	4,232	4,809	6,713	8,320	9,136	10,380	13,182
30%	12,259	12,426	10,108	6,172	4,395	2,992	3,446	4,760	6,910	8,985	9,790	12,839
40%	11,848	12,167	8,038	5,746	4,018	1,531	2,286	4,662	6,567	8,521	9,320	12,403
50%	11,440	9,466	7,777	5,019	2,235	1,459	1,627	3,923	5,750	7,585	8,141	12,113
60%	6,284	6,399	7,472	3,683	1,154	531	1,141	2,423	4,903	5,291	7,833	11,425
70%	4,405	5,130	6,650	1,365	252	256	694	2,081	4,419	4,519	7,305	6,043
80%	2,881	3,656	3,651	327	212	205	513	1,312	3,382	4,120	7,212	4,051
90%	2,840	1,983	220	212	208	204	224	480	2,493	3,305	7,119	3,222
Long Term												
Full Simulation Period[a]	8,694	8,518	7,508	4,564	3,244	2,150	2,423	3,948	6,023	7,029	8,841	9,622
Water Year Types[b]												
Wet (31%)	7,485	5,684	2,165	1,077	218	227	508	1,458	3,009	3,524	7,082	3,392
Above Normal (25%)	12,515	12,541	9,799	624	226	207	423	990	3,472	4,050	7,204	6,043
Below Normal (6%)	6,284	6,399	8,552	4,898	1,240	531	1,182	2,097	3,382	7,367	9,320	12,403
Dry (13%)	5,972	6,918	7,655	6,981	4,441	2,064	2,441	4,087	6,205	7,664	8,624	12,159
Critical (25%)	10,792	10,881	10,538	6,931	6,316	4,858	4,990	7,383	9,836	10,449	10,980	13,451

Alternative 6A,6B,6C (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,949	9,577	6,953	5,030	5,365	3,890	5,055	7,556	10,120	12,573	12,030	10,884
20%	8,510	7,669	6,475	3,531	3,465	2,564	3,998	6,831	8,704	11,291	11,356	10,385
30%	7,496	6,773	5,394	3,373	2,217	2,056	2,773	4,930	7,501	10,691	10,741	9,472
40%	7,098	6,359	4,477	2,018	1,787	1,411	2,368	4,742	7,073	9,926	10,138	8,935
50%	6,773	5,717	3,597	1,917	1,047	1,148	1,645	4,021	6,339	9,394	9,403	8,516
60%	5,156	4,977	3,223	1,408	636	500	1,200	2,491	5,077	7,287	8,334	7,879
70%	3,989	3,360	2,854	817	293	294	819	2,000	3,925	5,974	7,042	5,872
80%	2,813	2,588	1,092	242	233	221	557	1,374	3,162	5,472	6,715	3,651
90%	2,739	1,644	204	235	228	216	268	550	2,310	4,979	6,475	3,162
Long Term												
Full Simulation Period[a]	6,161	5,472	4,001	2,488	2,046	1,679	2,327	3,964	6,068	8,465	9,005	7,637
Water Year Types[b]												
Wet (31%)	4,680	2,861	846	523	240	240	545	1,454	2,946	4,314	5,877	3,237
Above Normal (25%)	9,157	8,635	4,566	358	261	239	521	1,050	3,020	5,704	6,819	5,872
Below Normal (6%)	5,156	4,977	4,880	1,992	636	500	1,200	2,085	3,162	7,287	8,334	7,879
Dry (13%)	5,041	4,835	3,904	2,838	2,379	1,423	2,090	4,223	6,760	9,711	10,072	8,994
Critical (25%)	7,245	6,905	6,201	4,732	4,222	3,846	4,891	7,306	9,812	12,130	11,664	10,727

Alternative 6A,6B,6C (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-3,279	-4,429	-6,103	-3,697	-3,148	-1,691	-90	-199	-489	**1,579**	**348**	-2,634
20%	-3,975	-5,014	-5,478	-4,464	-1,310	-1,668	-810	**118**	**384**	**2,154**	**976**	-2,797
30%	-4,763	-5,653	-4,714	-2,798	-2,178	-936	-673	**170**	**591**	**1,706**	**951**	-3,367
40%	-4,750	-5,808	-3,561	-3,728	-2,231	-120	**82**	**80**	**506**	**1,405**	**818**	-3,468
50%	-4,666	-3,748	-4,179	-3,101	-1,187	-312	**19**	**98**	**589**	**1,809**	**1,262**	-3,597
60%	-1,128	-1,422	-4,250	-2,275	-518	-31	**59**	**68**	**174**	**1,995**	**500**	-3,547
70%	-416	-1,770	-3,796	-549	**40**	**39**	**125**	-81	-494	**1,455**	-263	-171
80%	-69	-1,067	-2,558	-85	**20**	**16**	**44**	**62**	-219	**1,352**	-497	-400
90%	-101	-339	-16	**23**	**21**	**12**	**45**	**70**	-183	**1,674**	-644	-61
Long Term												
Full Simulation Period[a]	-2,533	-3,046	-3,507	-2,076	-1,198	-471	-96	**16**	**45**	**1,436**	**165**	-1,985
Water Year Types[b]												
Wet (31%)	-2,805	-2,822	-1,319	-554	**22**	**14**	**37**	-4	-62	**790**	-1,204	-155
Above Normal (25%)	-3,359	-3,906	-5,233	-267	**35**	**32**	**98**	**59**	-452	**1,654**	-385	-171
Below Normal (6%)	-1,128	-1,422	-3,673	-2,906	-603	-31	**18**	-12	-219	-81	-987	-4,524
Dry (13%)	-931	-2,083	-3,751	-4,143	-2,062	-641	-351	**136**	**555**	**2,047**	**1,448**	-3,165
Critical (25%)	-3,547	-3,976	-4,337	-2,198	-2,094	-1,012	-99	-77	-25	**1,681**	**684**	-2,724

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-38-23. Sacramento River at Mallard Slough, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,228	14,006	13,056	8,727	8,514	5,581	5,145	7,755	10,610	10,994	11,682	13,518
20%	12,485	12,683	11,953	7,995	4,776	4,232	4,809	6,713	8,320	9,136	10,380	13,182
30%	12,259	12,426	10,108	6,172	4,395	2,992	3,446	4,760	6,910	8,985	9,790	12,839
40%	11,848	12,167	8,038	5,746	4,018	1,531	2,286	4,662	6,567	8,521	9,320	12,403
50%	11,440	9,466	7,777	5,019	2,235	1,459	1,627	3,923	5,750	7,585	8,141	12,113
60%	6,284	6,399	7,472	3,683	1,154	531	1,141	2,423	4,903	5,291	7,833	11,425
70%	4,405	5,130	6,650	1,365	252	256	694	2,081	4,419	4,519	7,305	6,043
80%	2,881	3,656	3,651	327	212	205	513	1,312	3,382	4,120	7,212	4,051
90%	2,840	1,983	220	212	208	204	224	480	2,493	3,305	7,119	3,222
Long Term												
Full Simulation Period[a]	8,694	8,518	7,508	4,564	3,244	2,150	2,423	3,948	6,023	7,029	8,841	9,622
Water Year Types[b]												
Wet (31%)	7,485	5,684	2,165	1,077	218	227	508	1,458	3,009	3,524	7,082	3,392
Above Normal (25%)	12,515	12,541	9,799	624	226	207	423	990	3,472	4,050	7,204	6,043
Below Normal (6%)	6,284	6,399	8,552	4,898	1,240	531	1,182	2,097	3,382	7,367	9,320	12,403
Dry (13%)	5,972	6,918	7,655	6,981	4,441	2,064	2,441	4,087	6,205	7,664	8,624	12,159
Critical (25%)	10,792	10,881	10,538	6,931	6,316	4,858	4,990	7,383	9,836	10,449	10,980	13,451

Alternative 7 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	11,623	9,518	7,296	5,003	5,290	3,688	4,833	6,822	8,037	11,208	12,076	12,964
20%	10,603	7,742	6,553	3,461	3,401	2,487	3,907	6,582	7,419	10,425	11,654	12,738
30%	10,305	7,632	4,957	3,311	2,209	1,997	2,669	4,970	6,809	9,855	11,156	12,518
40%	10,104	7,069	4,304	2,102	1,708	1,382	2,350	4,729	6,671	9,712	10,036	12,450
50%	9,103	6,013	3,538	2,039	999	1,048	1,556	3,948	5,705	8,615	9,578	12,062
60%	5,248	5,046	3,357	1,555	759	520	1,122	2,445	4,670	7,276	9,249	11,924
70%	3,698	3,269	2,893	793	283	291	816	1,977	3,415	5,976	9,110	6,108
80%	2,816	2,646	1,153	236	223	217	549	1,383	2,786	5,628	9,038	4,290
90%	2,583	1,700	201	226	218	214	264	511	2,192	5,252	8,858	3,642
Long Term												
Full Simulation Period[a]	7,417	5,689	4,015	2,487	2,014	1,621	2,259	3,744	5,251	8,076	10,140	9,554
Water Year Types[b]												
Wet (31%)	5,903	2,975	880	555	234	242	545	1,452	2,645	4,862	9,034	3,774
Above Normal (25%)	11,476	8,506	4,179	345	249	230	521	1,026	2,569	5,516	9,059	6,108
Below Normal (6%)	5,248	5,264	4,913	2,102	759	520	1,122	2,006	3,224	7,749	10,036	12,048
Dry (13%)	5,164	4,930	3,894	2,855	2,331	1,350	2,012	4,182	6,361	9,049	9,722	12,672
Critical (25%)	9,243	7,426	6,374	4,673	4,140	3,718	4,752	6,663	7,926	10,957	11,811	12,563

Alternative 7 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,605	-4,488	-5,759	-3,724	-3,224	-1,893	-312	-933	-2,573	**214**	**394**	-554
20%	-1,882	-4,941	-5,400	-4,534	-1,375	-1,745	-902	-131	-901	**1,288**	**1,274**	-444
30%	-1,953	-4,794	-5,151	-2,860	-2,186	-995	-777	**210**	-101	**870**	**1,367**	-321
40%	-1,744	-5,097	-3,734	-3,644	-2,310	-149	**64**	**67**	**105**	**1,191**	**716**	**48**
50%	-2,336	-3,453	-4,238	-2,980	-1,236	-411	-70	**26**	-45	**1,030**	**1,437**	-51
60%	-1,036	-1,353	-4,115	-2,128	-395	-11	-19	**22**	-233	**1,985**	**1,416**	**498**
70%	-707	-1,861	-3,757	-572	**31**	**36**	**122**	-104	-1,004	**1,458**	**1,806**	**65**
80%	-65	-1,010	-2,497	-90	**11**	**13**	**36**	**71**	-595	**1,508**	**1,826**	**240**
90%	-257	-283	-19	**14**	**10**	**10**	**40**	**30**	-301	**1,947**	**1,739**	**419**
Long Term												
Full Simulation Period[a]	-1,276	-2,829	-3,493	-2,077	-1,231	-529	-164	-204	-772	**1,047**	**1,299**	-68
Water Year Types[b]												
Wet (31%)	-1,582	-2,709	-1,285	-522	**15**	**15**	**37**	-6	-364	**1,338**	**1,953**	**382**
Above Normal (25%)	-1,039	-4,036	-5,620	-279	**23**	**23**	**98**	**36**	-903	**1,466**	**1,855**	**65**
Below Normal (6%)	-1,036	-1,135	-3,639	-2,796	-481	-11	-60	-91	-158	**381**	**716**	-354
Dry (13%)	-808	-1,988	-3,761	-4,125	-2,109	-714	-429	**95**	**156**	**1,385**	**1,098**	**513**
Critical (25%)	-1,549	-3,455	-4,164	-2,258	-2,176	-1,140	-238	-720	-1,910	**508**	**831**	-888

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-38-24. Sacramento River at Mallard Slough, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,228	14,006	13,056	8,727	8,514	5,581	5,145	7,755	10,610	10,994	11,682	13,518
20%	12,485	12,683	11,953	7,995	4,776	4,232	4,809	6,713	8,320	9,136	10,380	13,182
30%	12,259	12,426	10,108	6,172	4,395	2,992	3,446	4,760	6,910	8,985	9,790	12,839
40%	11,848	12,167	8,038	5,746	4,018	1,531	2,286	4,662	6,567	8,521	9,320	12,403
50%	11,440	9,466	7,777	5,019	2,235	1,459	1,627	3,923	5,750	7,585	8,141	12,113
60%	6,284	6,399	7,472	3,683	1,154	531	1,141	2,423	4,903	5,291	7,833	11,425
70%	4,405	5,130	6,650	1,365	252	256	694	2,081	4,419	4,519	7,305	6,043
80%	2,881	3,656	3,651	327	212	205	513	1,312	3,382	4,120	7,212	4,051
90%	2,840	1,983	220	212	208	204	224	480	2,493	3,305	7,119	3,222
Long Term												
Full Simulation Period[a]	8,694	8,518	7,508	4,564	3,244	2,150	2,423	3,948	6,023	7,029	8,841	9,622
Water Year Types[b]												
Wet (31%)	7,485	5,684	2,165	1,077	218	227	508	1,458	3,009	3,524	7,082	3,392
Above Normal (25%)	12,515	12,541	9,799	624	226	207	423	990	3,472	4,050	7,204	6,043
Below Normal (6%)	6,284	6,399	8,552	4,898	1,240	531	1,182	2,097	3,382	7,367	9,320	12,403
Dry (13%)	5,972	6,918	7,655	6,981	4,441	2,064	2,441	4,087	6,205	7,664	8,624	12,159
Critical (25%)	10,792	10,881	10,538	6,931	6,316	4,858	4,990	7,383	9,836	10,449	10,980	13,451

Alternative 8 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	12,421	10,281	7,265	4,989	4,844	2,404	3,658	5,846	7,552	11,054	11,978	13,460
20%	12,218	9,351	7,047	3,556	3,324	2,069	3,287	4,894	6,589	9,907	11,914	13,097
30%	10,796	7,438	5,283	3,012	1,742	1,718	1,645	4,445	6,405	9,836	11,463	12,752
40%	10,137	7,051	4,406	1,936	1,377	980	1,400	3,353	6,062	9,814	11,082	12,593
50%	9,877	6,039	3,583	1,785	822	666	1,137	2,902	5,348	8,983	10,778	12,499
60%	4,998	5,161	3,381	1,133	568	452	856	1,751	4,306	7,871	10,579	12,338
70%	3,778	3,800	2,977	746	282	293	606	1,354	3,173	5,785	9,383	6,097
80%	2,821	2,624	1,112	233	223	217	475	1,125	2,654	5,471	9,134	4,017
90%	2,685	1,693	201	227	214	213	247	423	2,156	5,213	8,760	3,659
Long Term												
Full Simulation Period[a]	7,698	5,948	4,120	2,395	1,846	1,325	1,786	3,086	4,955	8,077	10,519	9,752
Water Year Types[b]												
Wet (31%)	6,301	3,165	893	450	234	243	468	1,135	2,475	4,712	8,895	3,703
Above Normal (25%)	11,171	8,577	4,524	347	243	228	419	832	2,494	5,493	9,139	6,097
Below Normal (6%)	4,998	5,161	4,900	1,936	568	452	856	1,149	2,976	7,871	10,795	13,097
Dry (13%)	5,660	5,419	4,024	2,658	1,875	923	1,294	3,498	6,224	9,429	10,980	13,234
Critical (25%)	9,596	7,702	6,461	4,651	4,009	3,126	3,965	5,606	7,305	10,761	11,947	12,600

Alternative 8 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-807	-3,725	-5,791	-3,738	-3,670	-3,177	-1,487	-1,909	-3,058	**60**	**295**	-58
20%	-267	-3,332	-4,906	-4,438	-1,452	-2,163	-1,522	-1,819	-1,731	**770**	**1,534**	-85
30%	-1,462	-4,989	-4,825	-3,160	-2,652	-1,274	-1,801	-315	-505	**851**	**1,673**	-88
40%	-1,710	-5,116	-3,632	-3,810	-2,641	-551	-886	-1,310	-505	**1,293**	**1,762**	**190**
50%	-1,563	-3,426	-4,194	-3,234	-1,413	-793	-489	-1,020	-402	**1,398**	**2,637**	**386**
60%	-1,286	-1,238	-4,092	-2,550	-587	-79	-285	-673	-597	**2,580**	**2,746**	**913**
70%	-627	-1,330	-3,673	-619	**30**	**37**	-88	-727	-1,246	**1,266**	**2,078**	**54**
80%	-60	-1,032	-2,538	-94	**11**	**12**	-38	-187	-728	**1,351**	**1,922**	-33
90%	-155	-289	-19	**15**	**6**	**9**	**24**	-57	-337	**1,907**	**1,641**	**437**
Long Term												
Full Simulation Period[a]	-996	-2,571	-3,387	-2,170	-1,398	-825	-638	-862	-1,067	**1,048**	**1,679**	**131**
Water Year Types[b]												
Wet (31%)	-1,183	-2,518	-1,273	-627	**15**	**16**	-39	-322	-533	**1,188**	**1,814**	**311**
Above Normal (25%)	-1,345	-3,964	-5,275	-278	**17**	**21**	-4	-158	-978	**1,443**	**1,935**	**54**
Below Normal (6%)	-1,286	-1,238	-3,653	-2,962	-672	-79	-326	-947	-405	**504**	**1,475**	**694**
Dry (13%)	-312	-1,499	-3,631	-4,323	-2,565	-1,141	-1,146	-589	**19**	**1,765**	**2,356**	**1,075**
Critical (25%)	-1,196	-3,179	-4,076	-2,280	-2,307	-1,732	-1,025	-1,777	-2,531	**312**	**967**	-851

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-38-25. Sacramento River at Mallard Slough, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,228	14,006	13,056	8,727	8,514	5,581	5,145	7,755	10,610	10,994	11,682	13,518
20%	12,485	12,683	11,953	7,995	4,776	4,232	4,809	6,713	8,320	9,136	10,380	13,182
30%	12,259	12,426	10,108	6,172	4,395	2,992	3,446	4,760	6,910	8,985	9,790	12,839
40%	11,848	12,167	8,038	5,746	4,018	1,531	2,286	4,662	6,567	8,521	9,320	12,403
50%	11,440	9,466	7,777	5,019	2,235	1,459	1,627	3,923	5,750	7,585	8,141	12,113
60%	6,284	6,399	7,472	3,683	1,154	531	1,141	2,423	4,903	5,291	7,833	11,425
70%	4,405	5,130	6,650	1,365	252	256	694	2,081	4,419	4,519	7,305	6,043
80%	2,881	3,656	3,651	327	212	205	513	1,312	3,382	4,120	7,212	4,051
90%	2,840	1,983	220	212	208	204	224	480	2,493	3,305	7,119	3,222
Long Term												
Full Simulation Period[a]	8,694	8,518	7,508	4,564	3,244	2,150	2,423	3,948	6,023	7,029	8,841	9,622
Water Year Types[b]												
Wet (31%)	7,485	5,684	2,165	1,077	218	227	508	1,458	3,009	3,524	7,082	3,392
Above Normal (25%)	12,515	12,541	9,799	624	226	207	423	990	3,472	4,050	7,204	6,043
Below Normal (6%)	6,284	6,399	8,552	4,898	1,240	531	1,182	2,097	3,382	7,367	9,320	12,403
Dry (13%)	5,972	6,918	7,655	6,981	4,441	2,064	2,441	4,087	6,205	7,664	8,624	12,159
Critical (25%)	10,792	10,881	10,538	6,931	6,316	4,858	4,990	7,383	9,836	10,449	10,980	13,451

Alternative 9 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,385	15,035	14,229	11,194	8,899	5,241	5,186	8,039	10,490	11,437	11,261	13,044
20%	13,910	13,874	13,120	7,727	7,067	4,402	3,868	6,936	8,693	10,997	10,781	12,960
30%	13,489	13,700	11,115	6,676	3,978	2,976	3,088	3,911	6,490	9,865	10,038	12,520
40%	13,056	13,524	9,362	5,417	3,326	1,782	2,501	3,614	5,915	9,621	9,881	12,427
50%	12,053	10,373	7,875	4,507	2,096	1,315	2,003	3,492	5,596	8,640	9,613	12,028
60%	6,064	6,102	7,530	4,139	888	420	1,592	3,017	5,157	7,739	8,983	11,512
70%	4,219	4,838	6,472	1,275	253	248	932	2,808	4,097	6,622	8,763	6,308
80%	2,927	3,607	3,520	397	224	206	621	1,933	3,784	5,006	8,623	4,172
90%	2,834	2,030	206	223	211	204	234	548	2,807	4,690	8,164	3,502
Long Term												
Full Simulation Period[a]	9,206	9,135	8,067	5,019	3,414	2,177	2,491	3,874	5,884	8,223	9,590	9,556
Water Year Types[b]												
Wet (31%)	7,483	5,806	2,490	1,197	221	218	656	1,874	2,970	4,708	8,418	3,621
Above Normal (25%)	14,096	14,415	11,115	584	236	217	528	1,360	3,673	5,526	8,382	6,308
Below Normal (6%)	6,064	6,102	8,213	4,316	888	420	1,592	3,017	3,784	7,739	10,043	12,992
Dry (13%)	6,368	7,342	8,337	6,853	4,114	1,901	2,270	3,357	5,833	9,252	9,785	12,395
Critical (25%)	11,528	11,729	11,065	8,524	7,186	5,101	5,101	7,066	9,560	11,387	10,764	12,645

Alternative 9 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**1,157**	**1,029**	**1,173**	**2,467**	**386**	-339	**41**	**284**	-120	**444**	-421	-475
20%	**1,425**	**1,191**	**1,167**	-267	**2,292**	**170**	-940	**224**	**373**	**1,861**	**401**	-222
30%	**1,230**	**1,274**	**1,007**	**504**	-416	-16	-358	-848	-420	**879**	**249**	-319
40%	**1,208**	**1,357**	**1,325**	-329	-692	**251**	**215**	-1,048	-651	**1,100**	**560**	**24**
50%	**614**	**908**	**98**	-512	-138	-144	**376**	-431	-154	**1,055**	**1,472**	-85
60%	-220	-297	**57**	**456**	-266	-111	**451**	**594**	**254**	**2,448**	**1,150**	**87**
70%	-186	-292	-178	-91	**0**	-8	**237**	**728**	-321	**2,104**	**1,458**	**266**
80%	**46**	-49	-131	**70**	**12**	**1**	**108**	**621**	**402**	**887**	**1,411**	**122**
90%	-6	**47**	-14	**11**	**4**	0	**10**	**67**	**314**	**1,385**	**1,045**	**279**
Long Term												
Full Simulation Period[a]	**513**	**617**	**560**	**455**	**170**	**27**	**68**	-74	-139	**1,194**	**749**	-66
Water Year Types[b]												
Wet (31%)	-2	**122**	**324**	**120**	**2**	-9	**148**	**416**	-38	**1,185**	**1,337**	**229**
Above Normal (25%)	**1,580**	**1,874**	**1,316**	-41	**10**	**10**	**105**	**369**	**201**	**1,476**	**1,177**	**266**
Below Normal (6%)	-220	-297	-339	-582	-352	-111	**409**	**921**	**402**	**372**	**722**	**590**
Dry (13%)	**396**	**424**	**682**	-127	-327	-163	-171	-730	-372	**1,588**	**1,162**	**236**
Critical (25%)	**736**	**848**	**527**	**1,593**	**870**	**243**	**111**	-318	-276	**938**	-216	-806

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

C.39. Sacramento River at Port Chicago Salinity

Table C-39-1. Sacramento River at Port Chicago, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	18,815	18,574	17,499	15,770	13,955	9,056	9,795	12,210	15,475	16,881	17,176	18,249
20%	18,380	18,236	17,360	13,964	11,874	8,135	8,796	11,387	13,854	16,043	16,859	18,138
30%	18,197	18,091	17,241	12,325	8,545	5,808	6,638	10,935	12,609	14,928	15,990	17,741
40%	18,173	17,881	16,230	9,256	8,381	3,616	5,121	8,000	11,040	13,982	15,459	17,090
50%	17,671	17,702	14,838	8,312	3,853	2,455	3,644	6,969	10,882	13,913	14,774	16,849
60%	16,983	17,360	13,905	7,663	1,848	1,165	2,912	5,350	8,978	11,769	14,185	16,550
70%	16,453	14,476	12,998	3,136	550	570	2,085	3,374	7,058	10,449	13,572	16,215
80%	16,331	9,405	4,859	696	258	252	1,371	2,963	6,195	9,527	13,315	15,732
90%	8,416	4,642	225	247	212	207	296	986	3,667	8,451	12,975	11,997
Long Term												
Full Simulation Period[a]	15,823	14,375	12,268	8,003	5,739	3,899	4,746	6,954	9,789	12,441	14,393	15,681
Water Year Types[b]												
Wet (31%)	11,574	7,489	3,635	2,094	346	372	1,167	2,229	4,649	7,361	10,812	10,792
Above Normal (25%)	18,544	17,592	14,803	1,338	299	258	1,063	2,468	5,483	9,335	13,397	15,803
Below Normal (6%)	16,508	17,360	17,443	9,256	1,848	1,165	3,081	3,377	7,275	11,769	14,185	17,090
Dry (13%)	17,107	15,626	13,845	11,413	8,333	3,972	4,980	8,107	11,265	14,108	15,151	16,912
Critical (25%)	16,969	16,998	15,863	12,418	10,932	8,665	9,228	12,322	14,944	16,548	17,092	18,278

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	18,324	18,595	18,167	14,600	14,062	11,236	10,711	13,078	16,240	16,711	17,385	18,799
20%	17,894	17,627	17,423	13,776	10,019	9,701	10,352	12,619	14,195	15,013	16,292	18,471
30%	17,547	17,545	15,545	11,625	9,659	7,002	8,423	10,235	12,634	14,644	15,712	18,304
40%	17,406	17,237	14,077	10,476	9,066	4,605	6,264	10,066	12,298	14,405	15,432	17,875
50%	16,920	13,899	13,275	9,210	5,971	3,769	5,178	8,902	11,429	13,370	14,508	17,527
60%	11,828	11,582	13,202	8,075	3,004	2,196	4,299	6,657	10,415	11,190	13,878	17,096
70%	9,531	9,991	12,040	3,445	944	1,052	2,899	6,120	9,618	9,948	13,130	11,896
80%	7,709	8,206	8,840	779	357	446	2,154	4,755	8,394	9,468	13,092	8,715
90%	7,535	5,485	551	465	298	282	622	2,020	6,609	8,268	12,779	8,103
Long Term												
Full Simulation Period[a]	13,821	12,917	11,950	8,105	6,285	4,772	5,772	8,182	11,085	12,514	14,717	14,911
Water Year Types[b]												
Wet (31%)	12,568	8,604	3,905	2,349	528	597	1,759	3,986	6,905	8,411	12,791	8,182
Above Normal (25%)	17,648	17,505	14,986	1,359	466	462	1,756	3,763	8,235	9,359	13,005	11,896
Below Normal (6%)	11,828	11,707	14,077	8,660	3,004	2,196	4,299	6,214	8,394	13,007	15,432	17,875
Dry (13%)	11,080	11,664	13,074	12,318	9,298	5,339	6,578	9,176	11,910	13,509	14,796	17,655
Critical (25%)	15,885	15,777	15,848	11,926	11,463	9,898	10,237	12,904	15,448	16,164	16,737	18,712

No Action Alternative (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-491	**21**	**669**	-1,170	**108**	**2,181**	**916**	**867**	**765**	-170	**209**	**550**
20%	-486	-609	**63**	-188	-1,854	**1,566**	**1,556**	**1,232**	**341**	-1,030	-567	**333**
30%	-650	-547	-1,695	-700	**1,114**	**1,194**	**1,785**	-700	**25**	-284	-278	**564**
40%	-767	-643	-2,153	**1,220**	**684**	**989**	**1,144**	**2,066**	**1,258**	**423**	-27	**785**
50%	-751	-3,803	-1,563	**898**	**2,118**	**1,314**	**1,535**	**1,933**	**547**	-543	-266	**678**
60%	-5,155	-5,779	-703	**412**	**1,156**	**1,031**	**1,387**	**1,308**	**1,437**	-579	-307	**546**
70%	-6,922	-4,485	-958	**309**	**394**	**483**	**814**	**2,745**	**2,560**	-501	-442	-4,320
80%	-8,622	-1,199	**3,981**	**84**	**99**	**195**	**783**	**1,792**	**2,199**	-59	-223	-7,017
90%	-881	**843**	**327**	**218**	**86**	**75**	**327**	**1,034**	**2,942**	-183	-197	-3,894
Long Term												
Full Simulation Period[a]	-2,002	-1,457	-318	**102**	**546**	**873**	**1,026**	**1,228**	**1,297**	**74**	**324**	-771
Water Year Types[b]												
Wet (31%)	**993**	**1,115**	**270**	**254**	**183**	**224**	**592**	**1,757**	**2,256**	**1,050**	**1,978**	-2,610
Above Normal (25%)	-896	-86	**183**	**21**	**167**	**204**	**693**	**1,295**	**2,752**	**25**	-393	-3,907
Below Normal (6%)	-4,680	-5,653	-3,366	-596	**1,156**	**1,031**	**1,219**	**2,837**	**1,120**	**1,238**	**1,247**	**785**
Dry (13%)	-6,027	-3,963	-771	**904**	**964**	**1,367**	**1,598**	**1,070**	**645**	-598	-354	**743**
Critical (25%)	-1,085	-1,221	-15	-492	**531**	**1,233**	**1,009**	**582**	**504**	-384	-355	**433**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

Table C-39-2. Sacramento River at Port Chicago, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	18,815	18,574	17,499	15,770	13,955	9,056	9,795	12,210	15,475	16,881	17,176	18,249
20%	18,380	18,236	17,360	13,964	11,874	8,135	8,796	11,387	13,854	16,043	16,859	18,138
30%	18,197	18,091	17,241	12,325	8,545	5,808	6,638	10,935	12,609	14,928	15,990	17,741
40%	18,173	17,881	16,230	9,256	8,381	3,616	5,121	8,000	11,040	13,982	15,459	17,090
50%	17,671	17,702	14,838	8,312	3,853	2,455	3,644	6,969	10,882	13,913	14,774	16,849
60%	16,983	17,360	13,905	7,663	1,848	1,165	2,912	5,350	8,978	11,769	14,185	16,550
70%	16,453	14,476	12,998	3,136	550	570	2,085	3,374	7,058	10,449	13,572	16,215
80%	16,331	9,405	4,859	696	258	252	1,371	2,963	6,195	9,527	13,315	15,732
90%	8,416	4,642	225	247	212	207	296	986	3,667	8,451	12,975	11,997
Long Term												
Full Simulation Period[a]	15,823	14,375	12,268	8,003	5,739	3,899	4,746	6,954	9,789	12,441	14,393	15,681
Water Year Types[b]												
Wet (31%)	11,574	7,489	3,635	2,094	346	372	1,167	2,229	4,649	7,361	10,812	10,792
Above Normal (25%)	18,544	17,592	14,803	1,338	299	258	1,063	2,468	5,483	9,335	13,397	15,803
Below Normal (6%)	16,508	17,360	17,443	9,256	1,848	1,165	3,081	3,377	7,275	11,769	14,185	17,090
Dry (13%)	17,107	15,626	13,845	11,413	8,333	3,972	4,980	8,107	11,265	14,108	15,151	16,912
Critical (25%)	16,969	16,998	15,863	12,418	10,932	8,665	9,228	12,322	14,944	16,548	17,092	18,278

Alternative 1A,1B,1C (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	17,825	17,856	17,071	14,364	12,341	10,898	11,112	13,845	16,764	17,730	18,042	18,537
20%	17,594	17,742	16,713	13,357	11,244	9,960	10,577	13,135	14,370	16,647	17,459	18,345
30%	17,186	16,348	16,081	11,812	10,687	7,517	8,327	10,358	13,100	15,389	16,879	18,047
40%	16,459	15,765	15,727	10,904	8,807	5,799	7,546	10,261	12,007	15,174	16,384	17,868
50%	15,683	14,294	14,918	9,742	6,385	4,629	6,558	10,198	11,391	14,006	15,884	17,660
60%	15,540	13,923	13,289	8,126	2,862	1,895	5,538	9,513	11,035	12,211	14,900	17,595
70%	13,174	12,196	13,028	3,974	844	948	3,240	6,859	10,192	11,677	14,724	17,378
80%	11,825	11,506	10,493	1,093	390	381	2,507	6,573	9,908	11,113	14,309	16,933
90%	11,088	6,880	461	409	301	267	644	2,762	6,507	10,540	14,111	16,023
Long Term												
Full Simulation Period[a]	14,904	13,463	12,315	8,168	6,219	4,955	6,222	8,973	11,409	13,602	15,868	17,244
Water Year Types[b]												
Wet (31%)	13,555	7,841	3,498	2,853	510	554	2,136	4,850	6,958	9,645	14,178	15,972
Above Normal (25%)	14,953	15,623	14,093	1,238	425	395	2,039	5,341	8,954	11,499	14,724	17,732
Below Normal (6%)	11,781	12,432	16,095	9,223	2,862	1,895	5,904	9,513	9,947	13,383	16,650	18,865
Dry (13%)	17,267	16,466	14,925	11,330	9,462	6,123	6,902	9,353	11,796	14,325	15,754	17,291
Critical (25%)	14,696	14,900	15,813	12,451	11,182	9,979	10,685	13,314	15,936	17,073	17,613	17,705

Alternative 1A,1B,1C (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-990	-718	-428	-1,406	-1,614	**1,842**	**1,317**	**1,634**	**1,290**	**849**	**866**	**288**
20%	-785	-494	-647	-608	-630	**1,826**	**1,780**	**1,748**	**516**	**605**	**600**	**207**
30%	-1,011	-1,743	-1,160	-513	**2,142**	**1,709**	**1,690**	-577	**491**	**461**	**889**	**306**
40%	-1,714	-2,115	-503	**1,648**	**426**	**2,183**	**2,426**	**2,261**	**967**	**1,191**	**925**	**778**
50%	-1,988	-3,408	**79**	**1,430**	**2,532**	**2,174**	**2,914**	**3,229**	**510**	**92**	**1,110**	**811**
60%	-1,443	-3,438	-616	**463**	**1,014**	**729**	**2,626**	**4,163**	**2,056**	**442**	**716**	**1,046**
70%	-3,279	-2,280	**30**	**838**	**294**	**378**	**1,154**	**3,485**	**3,134**	**1,228**	**1,152**	**1,162**
80%	-4,506	**2,101**	**5,634**	**397**	**132**	**129**	**1,136**	**3,610**	**3,714**	**1,585**	**994**	**1,201**
90%	**2,672**	**2,238**	**237**	**162**	**89**	**60**	**349**	**1,776**	**2,840**	**2,089**	**1,136**	**4,025**
Long Term												
Full Simulation Period[a]	-919	-912	**47**	**165**	**481**	**1,057**	**1,477**	**2,019**	**1,621**	**1,161**	**1,475**	**1,563**
Water Year Types[b]												
Wet (31%)	**1,980**	**352**	-137	**759**	**164**	**182**	**968**	**2,620**	**2,309**	**2,284**	**3,365**	**5,181**
Above Normal (25%)	-3,590	-1,969	-710	-100	**126**	**138**	**976**	**2,873**	**3,471**	**2,165**	**1,327**	**1,929**
Below Normal (6%)	-4,727	-4,928	-1,348	-33	**1,014**	**729**	**2,823**	**6,136**	**2,673**	**1,614**	**2,465**	**1,775**
Dry (13%)	**160**	**839**	**1,081**	-83	**1,129**	**2,151**	**1,922**	**1,246**	**530**	**217**	**603**	**379**
Critical (25%)	-2,273	-2,098	-50	**33**	**250**	**1,314**	**1,458**	**992**	**992**	**525**	**521**	-574

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-39-3. Sacramento River at Port Chicago, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	18,815	18,574	17,499	15,770	13,955	9,056	9,795	12,210	15,475	16,881	17,176	18,249
20%	18,380	18,236	17,360	13,964	11,874	8,135	8,796	11,387	13,854	16,043	16,859	18,138
30%	18,197	18,091	17,241	12,325	8,545	5,808	6,638	10,935	12,609	14,928	15,990	17,741
40%	18,173	17,881	16,230	9,256	8,381	3,616	5,121	8,000	11,040	13,982	15,459	17,090
50%	17,671	17,702	14,838	8,312	3,853	2,455	3,644	6,969	10,882	13,913	14,774	16,849
60%	16,983	17,360	13,905	7,663	1,848	1,165	2,912	5,350	8,978	11,769	14,185	16,550
70%	16,453	14,476	12,998	3,136	550	570	2,085	3,374	7,058	10,449	13,572	16,215
80%	16,331	9,405	4,859	696	258	252	1,371	2,963	6,195	9,527	13,315	15,732
90%	8,416	4,642	225	247	212	207	296	986	3,667	8,451	12,975	11,997
Long Term												
Full Simulation Period[a]	15,823	14,375	12,268	8,003	5,739	3,899	4,746	6,954	9,789	12,441	14,393	15,681
Water Year Types[b]												
Wet (31%)	11,574	7,489	3,635	2,094	346	372	1,167	2,229	4,649	7,361	10,812	10,792
Above Normal (25%)	18,544	17,592	14,803	1,338	299	258	1,063	2,468	5,483	9,335	13,397	15,803
Below Normal (6%)	16,508	17,360	17,443	9,256	1,848	1,165	3,081	3,377	7,275	11,769	14,185	17,090
Dry (13%)	17,107	15,626	13,845	11,413	8,333	3,972	4,980	8,107	11,265	14,108	15,151	16,912
Critical (25%)	16,969	16,998	15,863	12,418	10,932	8,665	9,228	12,322	14,944	16,548	17,092	18,278

Alternative 2A,2B,2C (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	17,159	18,133	16,586	12,363	12,279	10,485	11,081	13,814	16,793	17,709	17,957	18,578
20%	15,415	16,169	14,476	11,286	10,198	9,800	10,467	12,919	14,481	16,765	17,637	18,167
30%	14,841	15,014	13,820	10,430	8,433	7,398	8,544	10,122	12,908	15,164	16,786	17,953
40%	14,574	14,143	13,176	9,044	7,674	5,327	7,104	9,977	11,906	14,936	16,143	17,402
50%	13,568	11,768	12,917	8,412	6,349	4,726	5,876	9,056	11,262	13,954	15,741	17,231
60%	10,948	10,777	12,276	7,956	3,316	2,853	4,671	6,691	11,004	12,290	15,037	15,934
70%	9,047	9,410	11,429	3,668	862	955	3,158	6,399	9,148	11,341	14,593	11,647
80%	7,419	7,797	7,074	879	363	381	2,356	5,210	8,556	11,275	14,513	8,500
90%	7,289	5,383	473	407	304	270	650	2,253	6,291	10,528	14,324	8,168
Long Term												
Full Simulation Period[a]	12,301	11,830	11,000	7,166	5,735	4,931	6,052	8,383	11,130	13,529	15,868	14,616
Water Year Types[b]												
Wet (31%)	10,761	7,970	3,580	2,460	504	558	1,881	4,260	6,841	9,718	14,305	8,193
Above Normal (25%)	15,108	15,836	13,518	1,198	445	399	2,004	4,043	7,790	11,101	14,553	11,647
Below Normal (6%)	10,948	11,099	13,744	8,133	3,316	2,853	4,810	6,691	8,573	13,035	16,525	18,770
Dry (13%)	10,464	11,347	11,506	10,241	8,685	6,062	6,839	9,001	11,712	14,373	15,888	17,540
Critical (25%)	14,150	13,847	14,974	10,666	10,158	9,754	10,626	13,260	15,941	16,971	17,496	17,774

Alternative 2A,2B,2C (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,656	-442	-913	-3,407	-1,676	**1,429**	**1,286**	**1,603**	**1,318**	**829**	**781**	**329**
20%	-2,964	-2,067	-2,885	-2,678	-1,676	**1,665**	**1,671**	**1,531**	**627**	**722**	**777**	**29**
30%	-3,357	-3,078	-3,420	-1,895	-112	**1,590**	**1,906**	-813	**299**	**236**	**796**	**212**
40%	-3,599	-3,737	-3,054	-212	-707	**1,711**	**1,983**	**1,977**	**866**	**953**	**685**	**312**
50%	-4,102	-5,934	-1,922	**100**	**2,497**	**2,271**	**2,233**	**2,088**	**380**	**40**	**967**	**382**
60%	-6,035	-6,584	-1,630	**293**	**1,468**	**1,688**	**1,759**	**1,342**	**2,025**	**521**	**853**	-615
70%	-7,406	-5,066	-1,570	**532**	**312**	**386**	**1,073**	**3,025**	**2,090**	**892**	**1,021**	-4,569
80%	-8,912	-1,608	**2,215**	**183**	**105**	**130**	**985**	**2,247**	**2,361**	**1,748**	**1,197**	-7,232
90%	-1,127	**741**	**249**	**160**	**92**	**63**	**355**	**1,267**	**2,623**	**2,077**	**1,348**	-3,829
Long Term												
Full Simulation Period[a]	-3,522	-2,545	-1,268	-837	-4	**1,032**	**1,306**	**1,429**	**1,341**	**1,088**	**1,474**	-1,065
Water Year Types[b]												
Wet (31%)	-813	**481**	-55	**366**	**158**	**186**	**714**	**2,030**	**2,192**	**2,357**	**3,493**	-2,599
Above Normal (25%)	-3,436	-1,755	-1,285	-140	**146**	**141**	**941**	**1,575**	**2,307**	**1,767**	**1,155**	-4,156
Below Normal (6%)	-5,560	-6,261	-3,699	-1,123	**1,468**	**1,688**	**1,729**	**3,315**	**1,298**	**1,266**	**2,341**	**1,680**
Dry (13%)	-6,643	-4,279	-2,338	-1,172	**352**	**2,090**	**1,859**	**895**	**447**	**265**	**737**	**628**
Critical (25%)	-2,820	-3,151	-889	-1,752	-774	**1,089**	**1,398**	**938**	**997**	**423**	**404**	-505

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-39-4. Sacramento River at Port Chicago, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	18,815	18,574	17,499	15,770	13,955	9,056	9,795	12,210	15,475	16,881	17,176	18,249
20%	18,380	18,236	17,360	13,964	11,874	8,135	8,796	11,387	13,854	16,043	16,859	18,138
30%	18,197	18,091	17,241	12,325	8,545	5,808	6,638	10,935	12,609	14,928	15,990	17,741
40%	18,173	17,881	16,230	9,256	8,381	3,616	5,121	8,000	11,040	13,982	15,459	17,090
50%	17,671	17,702	14,838	8,312	3,853	2,455	3,644	6,969	10,882	13,913	14,774	16,849
60%	16,983	17,360	13,905	7,663	1,848	1,165	2,912	5,350	8,978	11,769	14,185	16,550
70%	16,453	14,476	12,998	3,136	550	570	2,085	3,374	7,058	10,449	13,572	16,215
80%	16,331	9,405	4,859	696	258	252	1,371	2,963	6,195	9,527	13,315	15,732
90%	8,416	4,642	225	247	212	207	296	986	3,667	8,451	12,975	11,997
Long Term												
Full Simulation Period[a]	15,823	14,375	12,268	8,003	5,739	3,899	4,746	6,954	9,789	12,441	14,393	15,681
Water Year Types[b]												
Wet (31%)	11,574	7,489	3,635	2,094	346	372	1,167	2,229	4,649	7,361	10,812	10,792
Above Normal (25%)	18,544	17,592	14,803	1,338	299	258	1,063	2,468	5,483	9,335	13,397	15,803
Below Normal (6%)	16,508	17,360	17,443	9,256	1,848	1,165	3,081	3,377	7,275	11,769	14,185	17,090
Dry (13%)	17,107	15,626	13,845	11,413	8,333	3,972	4,980	8,107	11,265	14,108	15,151	16,912
Critical (25%)	16,969	16,998	15,863	12,418	10,932	8,665	9,228	12,322	14,944	16,548	17,092	18,278

Alternative 3 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	17,989	17,703	17,231	13,488	12,042	10,846	11,165	13,972	16,703	17,664	18,024	18,490
20%	17,565	17,352	16,827	13,157	11,499	9,940	10,551	13,120	14,296	16,590	17,407	18,284
30%	17,239	16,647	16,364	12,488	10,566	7,053	8,227	10,391	13,049	15,243	16,755	18,090
40%	16,447	15,859	15,721	11,144	8,917	5,489	7,369	10,303	11,973	15,061	16,307	17,888
50%	15,138	14,210	14,453	9,262	6,171	4,093	6,548	10,184	11,691	14,040	15,802	17,658
60%	14,374	13,386	14,073	8,181	3,017	1,903	5,555	9,506	11,008	12,272	14,787	17,645
70%	13,128	12,231	13,068	3,742	834	946	3,210	6,917	10,263	11,787	14,563	17,189
80%	11,588	10,319	10,406	1,017	339	384	2,703	6,530	9,947	11,237	14,521	16,924
90%	10,554	6,787	436	399	291	266	640	2,834	6,513	10,384	14,263	16,364
Long Term												
Full Simulation Period[a]	14,711	13,301	12,397	7,977	6,031	4,828	6,219	9,010	11,437	13,595	15,843	17,261
Water Year Types[b]												
Wet (31%)	13,334	8,329	3,786	2,596	495	559	2,189	4,880	7,018	9,669	14,147	15,890
Above Normal (25%)	14,471	14,867	14,060	1,292	409	385	2,014	5,415	8,998	11,485	14,665	17,661
Below Normal (6%)	13,133	13,386	16,463	9,269	3,017	1,903	5,901	9,506	9,947	13,406	16,635	18,918
Dry (13%)	17,324	16,246	14,805	11,704	9,381	5,707	6,803	9,353	11,895	14,320	15,804	17,491
Critical (25%)	14,132	14,280	15,883	11,715	10,633	9,903	10,721	13,378	15,881	17,038	17,542	17,683

Alternative 3 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-827	-871	-268	-2,282	-1,913	**1,791**	**1,370**	**1,761**	**1,228**	**783**	**848**	**241**
20%	-815	-884	-534	-807	-375	**1,805**	**1,755**	**1,733**	**442**	**547**	**548**	**146**
30%	-958	-1,444	-877	**162**	**2,020**	**1,245**	**1,589**	-544	**440**	**314**	**766**	**349**
40%	-1,726	-2,022	-509	**1,888**	**536**	**1,872**	**2,248**	**2,303**	**933**	**1,079**	**848**	**798**
50%	-2,533	-3,492	-385	**950**	**2,318**	**1,638**	**2,904**	**3,215**	**809**	**127**	**1,029**	**809**
60%	-2,609	-3,975	**167**	**518**	**1,169**	**738**	**2,643**	**4,156**	**2,029**	**503**	**602**	**1,095**
70%	-3,325	-2,245	**70**	**606**	**283**	**377**	**1,124**	**3,543**	**3,205**	**1,338**	**991**	**974**
80%	-4,744	**913**	**5,547**	**321**	**81**	**133**	**1,333**	**3,567**	**3,752**	**1,709**	**1,206**	**1,192**
90%	**2,138**	**2,145**	**212**	**152**	**79**	**59**	**344**	**1,848**	**2,846**	**1,934**	**1,288**	**4,367**
Long Term												
Full Simulation Period[a]	-1,112	-1,074	**130**	-26	**292**	**929**	**1,473**	**2,056**	**1,649**	**1,154**	**1,449**	**1,580**
Water Year Types[b]												
Wet (31%)	**1,759**	**840**	**151**	**502**	**149**	**187**	**1,022**	**2,651**	**2,368**	**2,308**	**3,335**	**5,099**
Above Normal (25%)	-4,072	-2,725	-743	-46	**110**	**128**	**951**	**2,947**	**3,515**	**2,150**	**1,268**	**1,858**
Below Normal (6%)	-3,375	-3,975	-980	**14**	**1,169**	**738**	**2,820**	**6,130**	**2,672**	**1,637**	**2,451**	**1,827**
Dry (13%)	**217**	**620**	**960**	**290**	**1,048**	**1,735**	**1,822**	**1,246**	**630**	**213**	**653**	**579**
Critical (25%)	-2,837	-2,718	**20**	-703	-299	**1,238**	**1,494**	**1,056**	**937**	**490**	**450**	-596

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-39-5. Sacramento River at Port Chicago, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	18,815	18,574	17,499	15,770	13,955	9,056	9,795	12,210	15,475	16,881	17,176	18,249
20%	18,380	18,236	17,360	13,964	11,874	8,135	8,796	11,387	13,854	16,043	16,859	18,138
30%	18,197	18,091	17,241	12,325	8,545	5,808	6,638	10,935	12,609	14,928	15,990	17,741
40%	18,173	17,881	16,230	9,256	8,381	3,616	5,121	8,000	11,040	13,982	15,459	17,090
50%	17,671	17,702	14,838	8,312	3,853	2,455	3,644	6,969	10,882	13,913	14,774	16,849
60%	16,983	17,360	13,905	7,663	1,848	1,165	2,912	5,350	8,978	11,769	14,185	16,550
70%	16,453	14,476	12,998	3,136	550	570	2,085	3,374	7,058	10,449	13,572	16,215
80%	16,331	9,405	4,859	696	258	252	1,371	2,963	6,195	9,527	13,315	15,732
90%	8,416	4,642	225	247	212	207	296	986	3,667	8,451	12,975	11,997
Long Term												
Full Simulation Period[a]	15,823	14,375	12,268	8,003	5,739	3,899	4,746	6,954	9,789	12,441	14,393	15,681
Water Year Types[b]												
Wet (31%)	11,574	7,489	3,635	2,094	346	372	1,167	2,229	4,649	7,361	10,812	10,792
Above Normal (25%)	18,544	17,592	14,803	1,338	299	258	1,063	2,468	5,483	9,335	13,397	15,803
Below Normal (6%)	16,508	17,360	17,443	9,256	1,848	1,165	3,081	3,377	7,275	11,769	14,185	17,090
Dry (13%)	17,107	15,626	13,845	11,413	8,333	3,972	4,980	8,107	11,265	14,108	15,151	16,912
Critical (25%)	16,969	16,998	15,863	12,418	10,932	8,665	9,228	12,322	14,944	16,548	17,092	18,278

Alternative 4 H1 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	17,133	18,363	17,250	12,074	11,681	10,245	11,109	13,715	16,760	17,758	17,996	18,419
20%	16,835	16,666	16,589	11,014	9,730	10,053	10,549	12,941	14,259	16,577	17,686	18,222
30%	16,088	15,890	15,940	9,359	8,529	7,317	8,493	10,123	12,988	15,249	16,677	18,001
40%	15,720	15,050	15,009	9,068	7,487	5,299	6,870	10,008	12,400	15,071	16,108	17,755
50%	15,117	14,927	14,312	8,560	6,169	4,365	5,742	9,291	11,350	13,722	15,915	17,720
60%	15,093	14,757	13,329	7,541	3,066	2,326	4,588	6,700	11,016	12,282	14,695	17,381
70%	14,582	13,392	12,508	3,667	853	957	3,179	6,382	9,145	11,537	14,463	17,245
80%	13,618	10,771	6,639	862	338	383	2,334	5,297	8,225	11,286	14,416	16,960
90%	12,912	6,724	408	405	296	270	650	2,169	6,270	10,259	14,180	15,782
Long Term												
Full Simulation Period[a]	15,059	13,570	11,894	7,110	5,689	4,832	6,020	8,398	11,141	13,531	15,820	17,147
Water Year Types[b]												
Wet (31%)	13,165	7,888	3,511	2,358	498	563	1,877	4,205	6,814	9,696	14,178	15,950
Above Normal (25%)	15,456	16,120	13,641	1,166	426	391	2,016	4,089	7,835	11,085	14,463	17,568
Below Normal (6%)	13,618	13,752	16,589	8,833	3,066	2,326	4,588	6,700	8,225	12,769	16,455	18,753
Dry (13%)	16,369	15,379	13,579	10,256	8,513	5,841	6,785	9,121	11,922	14,313	15,755	16,957
Critical (25%)	15,658	15,613	15,614	10,429	10,212	9,718	10,610	13,238	15,884	17,106	17,600	17,766

Alternative 4 H1 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,682	-211	-249	-3,695	-2,274	**1,189**	**1,315**	**1,504**	**1,285**	**877**	**820**	**170**
20%	-1,545	-1,570	-771	-2,951	-2,144	**1,919**	**1,753**	**1,554**	**405**	**534**	**827**	**84**
30%	-2,110	-2,202	-1,301	-2,966	-17	**1,509**	**1,856**	-812	**379**	**321**	**687**	**261**
40%	-2,453	-2,831	-1,221	-188	-894	**1,683**	**1,749**	**2,008**	**1,360**	**1,089**	**649**	**665**
50%	-2,553	-2,775	-526	**248**	**2,316**	**1,910**	**2,098**	**2,322**	**469**	-191	**1,141**	**870**
60%	-1,890	-2,604	-576	-122	**1,218**	**1,161**	**1,676**	**1,350**	**2,038**	**513**	**510**	**832**
70%	-1,871	-1,084	-490	**531**	**303**	**387**	**1,094**	**3,008**	**2,087**	**1,088**	**891**	**1,029**
80%	-2,713	**1,366**	**1,780**	**166**	**80**	**132**	**963**	**2,334**	**2,031**	**1,758**	**1,101**	**1,228**
90%	**4,496**	**2,082**	**183**	**157**	**84**	**63**	**355**	**1,183**	**2,603**	**1,809**	**1,205**	**3,785**
Long Term												
Full Simulation Period[a]	-763	-804	-374	-893	-50	**933**	**1,274**	**1,444**	**1,353**	**1,091**	**1,426**	**1,465**
Water Year Types[b]												
Wet (31%)	**1,591**	**399**	-125	**264**	**152**	**190**	**709**	**1,976**	**2,165**	**2,336**	**3,365**	**5,158**
Above Normal (25%)	-3,088	-1,471	-1,162	-172	**127**	**134**	**953**	**1,621**	**2,352**	**1,750**	**1,066**	**1,765**
Below Normal (6%)	-2,890	-3,609	-854	-422	**1,218**	**1,161**	**1,508**	**3,323**	**951**	**1,000**	**2,270**	**1,663**
Dry (13%)	-738	-247	-265	-1,157	**180**	**1,869**	**1,805**	**1,014**	**657**	**205**	**605**	**45**
Critical (25%)	-1,312	-1,385	-249	-1,989	-720	**1,053**	**1,382**	**916**	**940**	**558**	**508**	-512

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-39-6. Sacramento River at Port Chicago, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	18,815	18,574	17,499	15,770	13,955	9,056	9,795	12,210	15,475	16,881	17,176	18,249
20%	18,380	18,236	17,360	13,964	11,874	8,135	8,796	11,387	13,854	16,043	16,859	18,138
30%	18,197	18,091	17,241	12,325	8,545	5,808	6,638	10,935	12,609	14,928	15,990	17,741
40%	18,173	17,881	16,230	9,256	8,381	3,616	5,121	8,000	11,040	13,982	15,459	17,090
50%	17,671	17,702	14,838	8,312	3,853	2,455	3,644	6,969	10,882	13,913	14,774	16,849
60%	16,983	17,360	13,905	7,663	1,848	1,165	2,912	5,350	8,978	11,769	14,185	16,550
70%	16,453	14,476	12,998	3,136	550	570	2,085	3,374	7,058	10,449	13,572	16,215
80%	16,331	9,405	4,859	696	258	252	1,371	2,963	6,195	9,527	13,315	15,732
90%	8,416	4,642	225	247	212	207	296	986	3,667	8,451	12,975	11,997
Long Term												
Full Simulation Period[a]	15,823	14,375	12,268	8,003	5,739	3,899	4,746	6,954	9,789	12,441	14,393	15,681
Water Year Types[b]												
Wet (31%)	11,574	7,489	3,635	2,094	346	372	1,167	2,229	4,649	7,361	10,812	10,792
Above Normal (25%)	18,544	17,592	14,803	1,338	299	258	1,063	2,468	5,483	9,335	13,397	15,803
Below Normal (6%)	16,508	17,360	17,443	9,256	1,848	1,165	3,081	3,377	7,275	11,769	14,185	17,090
Dry (13%)	17,107	15,626	13,845	11,413	8,333	3,972	4,980	8,107	11,265	14,108	15,151	16,912
Critical (25%)	16,969	16,998	15,863	12,418	10,932	8,665	9,228	12,322	14,944	16,548	17,092	18,278

Alternative 4 H2 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	17,165	18,227	17,204	13,516	11,955	10,082	10,710	13,637	16,646	17,572	17,950	18,513
20%	16,895	17,341	16,725	12,570	9,952	9,511	10,400	12,604	14,363	16,717	17,887	18,457
30%	16,026	16,364	16,613	10,869	8,884	7,163	8,241	10,132	12,959	15,256	16,627	17,802
40%	15,994	15,477	16,162	9,701	8,012	5,232	6,971	9,991	12,403	15,037	16,396	17,598
50%	15,608	14,664	14,374	8,431	6,260	4,232	5,644	8,254	11,632	14,009	15,690	17,468
60%	14,888	13,971	13,208	7,048	2,839	2,261	3,335	6,199	9,348	12,863	14,987	17,350
70%	14,133	12,998	12,293	3,552	825	953	1,910	5,236	8,588	11,478	14,820	17,256
80%	13,814	10,466	6,200	790	346	378	977	2,865	7,463	11,194	14,757	17,017
90%	12,146	6,025	393	402	293	269	620	1,932	6,300	10,654	14,335	16,561
Long Term												
Full Simulation Period[a]	14,969	13,456	12,015	7,393	5,742	4,722	5,595	7,880	10,947	13,640	15,894	17,209
Water Year Types[b]												
Wet (31%)	13,308	7,711	3,548	2,450	498	561	1,080	3,093	6,210	9,656	14,234	15,603
Above Normal (25%)	15,224	15,855	13,203	1,067	401	388	966	2,637	7,266	11,365	14,813	17,467
Below Normal (6%)	17,116	17,341	16,725	8,203	2,839	2,261	4,479	6,199	8,299	13,010	16,528	18,781
Dry (13%)	15,957	15,052	13,825	10,946	8,831	5,697	6,656	9,151	12,057	14,603	15,867	17,755
Critical (25%)	14,976	15,040	15,923	10,874	10,183	9,495	10,433	13,127	15,852	17,092	17,549	17,638

Alternative 4 H2 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,650	-347	-295	-2,253	-2,000	**1,026**	**915**	**1,427**	**1,171**	**692**	**774**	**264**
20%	-1,485	-895	-635	-1,394	-1,922	**1,376**	**1,604**	**1,217**	**509**	**674**	**1,027**	**319**
30%	-2,172	-1,727	-627	-1,457	**338**	**1,355**	**1,603**	-803	**350**	**328**	**638**	**62**
40%	-2,179	-2,404	-67	**445**	-369	**1,616**	**1,851**	**1,991**	**1,363**	**1,055**	**938**	**508**
50%	-2,062	-3,037	-465	**119**	**2,407**	**1,777**	**2,000**	**1,285**	**750**	**96**	**916**	**619**
60%	-2,095	-3,389	-697	-614	**991**	**1,096**	**423**	**849**	**369**	**1,094**	**803**	**800**
70%	-2,320	-1,478	-706	**416**	**275**	**383**	-176	**1,862**	**1,530**	**1,029**	**1,248**	**1,041**
80%	-2,517	**1,061**	**1,341**	**94**	**88**	**126**	-394	-98	**1,268**	**1,667**	**1,442**	**1,285**
90%	**3,729**	**1,383**	**169**	**155**	**81**	**62**	**324**	**947**	**2,633**	**2,204**	**1,360**	**4,564**
Long Term												
Full Simulation Period[a]	-854	-918	-253	-610	**3**	**823**	**849**	**926**	**1,159**	**1,199**	**1,501**	**1,527**
Water Year Types[b]												
Wet (31%)	**1,734**	**221**	-87	**356**	**152**	**188**	-87	**863**	**1,561**	**2,295**	**3,422**	**4,811**
Above Normal (25%)	-3,320	-1,737	-1,600	-270	**102**	**130**	-97	**169**	**1,783**	**2,030**	**1,416**	**1,665**
Below Normal (6%)	**608**	-19	-718	-1,052	**991**	**1,096**	**1,398**	**2,822**	**1,025**	**1,241**	**2,343**	**1,691**
Dry (13%)	-1,150	-574	-20	-468	**498**	**1,725**	**1,676**	**1,044**	**791**	**496**	**716**	**843**
Critical (25%)	-1,993	-1,958	**60**	-1,544	-750	**830**	**1,206**	**805**	**908**	**544**	**457**	-641

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-39-7. Sacramento River at Port Chicago, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	18,815	18,574	17,499	15,770	13,955	9,056	9,795	12,210	15,475	16,881	17,176	18,249
20%	18,380	18,236	17,360	13,964	11,874	8,135	8,796	11,387	13,854	16,043	16,859	18,138
30%	18,197	18,091	17,241	12,325	8,545	5,808	6,638	10,935	12,609	14,928	15,990	17,741
40%	18,173	17,881	16,230	9,256	8,381	3,616	5,121	8,000	11,040	13,982	15,459	17,090
50%	17,671	17,702	14,838	8,312	3,853	2,455	3,644	6,969	10,882	13,913	14,774	16,849
60%	16,983	17,360	13,905	7,663	1,848	1,165	2,912	5,350	8,978	11,769	14,185	16,550
70%	16,453	14,476	12,998	3,136	550	570	2,085	3,374	7,058	10,449	13,572	16,215
80%	16,331	9,405	4,859	696	258	252	1,371	2,963	6,195	9,527	13,315	15,732
90%	8,416	4,642	225	247	212	207	296	986	3,667	8,451	12,975	11,997
Long Term												
Full Simulation Period[a]	15,823	14,375	12,268	8,003	5,739	3,899	4,746	6,954	9,789	12,441	14,393	15,681
Water Year Types[b]												
Wet (31%)	11,574	7,489	3,635	2,094	346	372	1,167	2,229	4,649	7,361	10,812	10,792
Above Normal (25%)	18,544	17,592	14,803	1,338	299	258	1,063	2,468	5,483	9,335	13,397	15,803
Below Normal (6%)	16,508	17,360	17,443	9,256	1,848	1,165	3,081	3,377	7,275	11,769	14,185	17,090
Dry (13%)	17,107	15,626	13,845	11,413	8,333	3,972	4,980	8,107	11,265	14,108	15,151	16,912
Critical (25%)	16,969	16,998	15,863	12,418	10,932	8,665	9,228	12,322	14,944	16,548	17,092	18,278

Alternative 4 H3 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	17,330	18,116	16,145	12,332	12,584	10,456	11,076	13,796	16,781	17,775	17,965	18,508
20%	16,922	17,008	14,421	11,286	9,734	10,048	10,512	12,921	14,481	16,764	17,789	18,146
30%	15,839	15,710	13,525	9,825	8,911	7,318	8,519	10,127	12,915	15,429	16,812	17,763
40%	15,054	14,989	13,101	8,530	7,627	5,329	7,073	10,004	12,070	15,006	16,417	17,428
50%	13,271	11,440	12,789	8,237	6,227	4,406	5,834	9,097	11,366	13,863	15,885	17,125
60%	10,970	10,779	12,093	7,812	2,978	2,603	4,674	6,709	11,013	12,306	14,603	15,829
70%	8,999	9,087	11,415	3,540	851	959	3,185	6,409	9,164	11,379	14,560	11,597
80%	7,408	7,781	6,968	877	344	384	2,338	5,216	8,583	11,295	14,510	8,470
90%	7,273	5,379	427	404	299	270	650	2,170	6,254	10,244	14,317	8,123
Long Term												
Full Simulation Period[a]	12,484	11,949	10,859	7,032	5,770	4,902	6,052	8,383	11,153	13,555	15,886	14,553
Water Year Types[b]												
Wet (31%)	11,276	7,843	3,538	2,373	499	564	1,878	4,212	6,837	9,610	14,187	8,169
Above Normal (25%)	14,771	15,551	13,083	1,115	428	391	2,006	4,049	7,783	11,090	14,541	11,597
Below Normal (6%)	10,970	11,097	13,744	8,131	2,978	2,603	4,724	6,709	8,600	13,061	16,549	18,788
Dry (13%)	10,488	11,355	11,466	10,131	8,581	5,862	6,839	9,040	11,808	14,308	15,857	17,287
Critical (25%)	14,434	14,437	14,763	10,429	10,432	9,870	10,647	13,263	15,940	17,193	17,675	17,809

Alternative 4 H3 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,485	-458	-1,354	-3,438	-1,371	**1,401**	**1,281**	**1,585**	**1,306**	**895**	**789**	**259**
20%	-1,457	-1,228	-2,939	-2,679	-2,140	**1,913**	**1,716**	**1,533**	**627**	**721**	**929**	**9**
30%	-2,358	-2,381	-3,715	-2,500	**366**	**1,510**	**1,882**	-808	**306**	**500**	**822**	**22**
40%	-3,119	-2,892	-3,129	-726	-754	**1,712**	**1,952**	**2,004**	**1,030**	**1,024**	**958**	**337**
50%	-4,400	-6,262	-2,049	-75	**2,374**	**1,951**	**2,190**	**2,128**	**484**	-50	**1,111**	**275**
60%	-6,013	-6,581	-1,812	**149**	**1,130**	**1,437**	**1,761**	**1,359**	**2,035**	**537**	**418**	-720
70%	-7,454	-5,389	-1,584	**404**	**301**	**389**	**1,099**	**3,035**	**2,106**	**930**	**988**	-4,619
80%	-8,923	-1,624	**2,109**	**181**	**86**	**132**	**967**	**2,253**	**2,388**	**1,768**	**1,195**	-7,262
90%	-1,143	**738**	**202**	**157**	**87**	**63**	**354**	**1,184**	**2,587**	**1,793**	**1,341**	-3,874
Long Term												
Full Simulation Period[a]	-3,339	-2,426	-1,409	-971	**31**	**1,003**	**1,306**	**1,429**	**1,364**	**1,114**	**1,493**	-1,128
Water Year Types[b]												
Wet (31%)	-299	**354**	-97	**278**	**154**	**192**	**710**	**1,983**	**2,188**	**2,249**	**3,374**	-2,623
Above Normal (25%)	-3,772	-2,040	-1,720	-223	**129**	**134**	**943**	**1,581**	**2,300**	**1,755**	**1,144**	-4,206
Below Normal (6%)	-5,538	-6,264	-3,699	-1,124	**1,130**	**1,437**	**1,644**	**3,333**	**1,325**	**1,292**	**2,364**	**1,697**
Dry (13%)	-6,619	-4,271	-2,379	-1,283	**248**	**1,890**	**1,859**	**933**	**543**	**200**	**706**	**375**
Critical (25%)	-2,535	-2,561	-1,100	-1,989	-500	**1,205**	**1,420**	**942**	**996**	**645**	**583**	-469

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-39-8. Sacramento River at Port Chicago, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	18,815	18,574	17,499	15,770	13,955	9,056	9,795	12,210	15,475	16,881	17,176	18,249
20%	18,380	18,236	17,360	13,964	11,874	8,135	8,796	11,387	13,854	16,043	16,859	18,138
30%	18,197	18,091	17,241	12,325	8,545	5,808	6,638	10,935	12,609	14,928	15,990	17,741
40%	18,173	17,881	16,230	9,256	8,381	3,616	5,121	8,000	11,040	13,982	15,459	17,090
50%	17,671	17,702	14,838	8,312	3,853	2,455	3,644	6,969	10,882	13,913	14,774	16,849
60%	16,983	17,360	13,905	7,663	1,848	1,165	2,912	5,350	8,978	11,769	14,185	16,550
70%	16,453	14,476	12,998	3,136	550	570	2,085	3,374	7,058	10,449	13,572	16,215
80%	16,331	9,405	4,859	696	258	252	1,371	2,963	6,195	9,527	13,315	15,732
90%	8,416	4,642	225	247	212	207	296	986	3,667	8,451	12,975	11,997
Long Term												
Full Simulation Period[a]	15,823	14,375	12,268	8,003	5,739	3,899	4,746	6,954	9,789	12,441	14,393	15,681
Water Year Types[b]												
Wet (31%)	11,574	7,489	3,635	2,094	346	372	1,167	2,229	4,649	7,361	10,812	10,792
Above Normal (25%)	18,544	17,592	14,803	1,338	299	258	1,063	2,468	5,483	9,335	13,397	15,803
Below Normal (6%)	16,508	17,360	17,443	9,256	1,848	1,165	3,081	3,377	7,275	11,769	14,185	17,090
Dry (13%)	17,107	15,626	13,845	11,413	8,333	3,972	4,980	8,107	11,265	14,108	15,151	16,912
Critical (25%)	16,969	16,998	15,863	12,418	10,932	8,665	9,228	12,322	14,944	16,548	17,092	18,278

Alternative 4 H4 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	17,335	17,723	17,169	14,237	13,254	10,441	10,900	13,575	16,630	17,540	17,816	18,407
20%	16,247	16,605	15,499	12,562	11,667	9,864	10,362	12,607	14,364	16,720	17,582	17,592
30%	15,235	15,431	13,673	11,642	9,136	7,168	8,201	10,132	12,967	15,322	16,710	17,482
40%	13,828	13,770	13,074	8,751	7,608	5,533	6,928	10,010	12,424	15,219	16,341	17,323
50%	12,912	11,485	12,767	8,330	6,260	4,210	5,743	8,265	11,710	14,015	15,818	17,249
60%	10,865	10,816	11,858	7,833	2,878	2,584	3,357	6,210	9,458	12,568	15,101	17,146
70%	8,982	8,325	11,389	3,617	829	952	1,901	5,314	8,336	11,415	14,872	11,665
80%	7,374	7,803	6,961	786	355	382	977	2,865	7,497	11,180	14,729	8,458
90%	7,246	5,498	450	396	298	269	614	1,950	6,288	10,646	14,383	8,140
Long Term												
Full Simulation Period[a]	12,261	11,692	11,019	7,702	6,064	4,849	5,632	7,891	10,935	13,610	15,900	14,568
Water Year Types[b]												
Wet (31%)	10,835	7,538	3,543	2,449	501	561	1,075	3,132	6,236	9,620	14,296	8,160
Above Normal (25%)	14,957	15,580	13,254	1,097	407	389	961	2,654	7,275	11,360	14,872	11,665
Below Normal (6%)	10,865	11,085	13,725	7,993	2,878	2,584	4,625	6,210	7,794	12,568	16,341	18,779
Dry (13%)	10,442	11,322	11,703	10,341	8,700	5,689	6,672	9,160	12,093	14,673	15,937	17,835
Critical (25%)	14,057	13,879	15,017	12,377	11,305	9,845	10,516	13,113	15,860	17,062	17,477	17,400

Alternative 4 H4 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,480	-851	-329	-1,532	-701	**1,386**	**1,105**	**1,364**	**1,155**	**660**	**640**	**158**
20%	-2,133	-1,631	-1,861	-1,402	-206	**1,729**	**1,565**	**1,220**	**510**	**677**	**723**	-546
30%	-2,962	-2,661	-3,568	-683	**591**	**1,361**	**1,563**	-803	**358**	**394**	**721**	-258
40%	-4,345	-4,110	-3,156	-505	-773	**1,917**	**1,808**	**2,009**	**1,383**	**1,237**	**882**	**233**
50%	-4,759	-6,216	-2,072	**18**	**2,407**	**1,755**	**2,099**	**1,296**	**828**	**102**	**1,044**	**400**
60%	-6,117	-6,544	-2,047	**170**	**1,030**	**1,419**	**445**	**860**	**480**	**799**	**917**	**596**
70%	-7,471	-6,152	-1,609	**481**	**279**	**382**	-185	**1,940**	**1,278**	**966**	**1,300**	-4,550
80%	-8,957	-1,602	**2,102**	**90**	**97**	**130**	-393	-98	**1,302**	**1,652**	**1,414**	-7,274
90%	-1,171	**856**	**225**	**149**	**86**	**62**	**318**	**964**	**2,621**	**2,195**	**1,408**	-3,857
Long Term												
Full Simulation Period[a]	-3,562	-2,682	-1,249	-301	**325**	**950**	**886**	**937**	**1,146**	**1,169**	**1,507**	-1,114
Water Year Types[b]												
Wet (31%)	-740	**49**	-92	**355**	**155**	**188**	-92	**903**	**1,586**	**2,259**	**3,484**	-2,632
Above Normal (25%)	-3,587	-2,012	-1,549	-240	**108**	**131**	-102	**186**	**1,792**	**2,025**	**1,475**	-4,138
Below Normal (6%)	-5,643	-6,275	-3,718	-1,262	**1,030**	**1,419**	**1,544**	**2,833**	**520**	**799**	**2,156**	**1,689**
Dry (13%)	-6,665	-4,304	-2,142	-1,073	**367**	**1,717**	**1,692**	**1,054**	**828**	**565**	**786**	**923**
Critical (25%)	-2,912	-3,119	-846	-41	**373**	**1,180**	**1,288**	**791**	**917**	**514**	**385**	-879

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-39-9. Sacramento River at Port Chicago, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	18,815	18,574	17,499	15,770	13,955	9,056	9,795	12,210	15,475	16,881	17,176	18,249
20%	18,380	18,236	17,360	13,964	11,874	8,135	8,796	11,387	13,854	16,043	16,859	18,138
30%	18,197	18,091	17,241	12,325	8,545	5,808	6,638	10,935	12,609	14,928	15,990	17,741
40%	18,173	17,881	16,230	9,256	8,381	3,616	5,121	8,000	11,040	13,982	15,459	17,090
50%	17,671	17,702	14,838	8,312	3,853	2,455	3,644	6,969	10,882	13,913	14,774	16,849
60%	16,983	17,360	13,905	7,663	1,848	1,165	2,912	5,350	8,978	11,769	14,185	16,550
70%	16,453	14,476	12,998	3,136	550	570	2,085	3,374	7,058	10,449	13,572	16,215
80%	16,331	9,405	4,859	696	258	252	1,371	2,963	6,195	9,527	13,315	15,732
90%	8,416	4,642	225	247	212	207	296	986	3,667	8,451	12,975	11,997
Long Term												
Full Simulation Period[a]	15,823	14,375	12,268	8,003	5,739	3,899	4,746	6,954	9,789	12,441	14,393	15,681
Water Year Types[b]												
Wet (31%)	11,574	7,489	3,635	2,094	346	372	1,167	2,229	4,649	7,361	10,812	10,792
Above Normal (25%)	18,544	17,592	14,803	1,338	299	258	1,063	2,468	5,483	9,335	13,397	15,803
Below Normal (6%)	16,508	17,360	17,443	9,256	1,848	1,165	3,081	3,377	7,275	11,769	14,185	17,090
Dry (13%)	17,107	15,626	13,845	11,413	8,333	3,972	4,980	8,107	11,265	14,108	15,151	16,912
Critical (25%)	16,969	16,998	15,863	12,418	10,932	8,665	9,228	12,322	14,944	16,548	17,092	18,278

Alternative 5 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	17,954	17,657	17,249	14,481	12,971	11,152	10,811	13,452	16,570	17,433	17,932	18,362
20%	17,824	16,452	16,677	13,731	10,800	9,872	9,847	13,008	14,513	16,803	17,705	18,098
30%	16,854	15,665	14,200	11,159	9,925	7,602	8,517	10,276	13,211	15,167	16,758	17,831
40%	15,293	14,516	13,678	10,570	8,532	5,008	6,839	10,087	12,627	14,674	15,563	17,695
50%	14,485	12,841	13,196	9,986	6,276	4,114	5,570	9,343	11,688	13,804	15,482	17,222
60%	11,627	11,218	12,715	8,681	3,271	2,528	4,618	6,649	11,018	12,471	15,002	16,556
70%	9,360	9,855	11,817	3,419	830	946	3,108	6,484	9,665	11,697	14,819	11,570
80%	7,608	7,749	8,925	864	334	385	2,305	5,330	8,594	11,265	14,497	8,477
90%	7,327	5,464	428	390	290	262	575	2,155	6,460	10,516	13,916	8,038
Long Term												
Full Simulation Period[a]	13,114	12,112	11,502	7,972	6,115	4,929	5,900	8,409	11,329	13,533	15,769	14,596
Water Year Types[b]												
Wet (31%)	12,607	8,481	3,879	2,712	492	557	1,855	4,213	6,916	9,818	14,267	8,108
Above Normal (25%)	17,139	17,630	13,809	1,091	407	385	1,846	4,165	8,357	11,279	14,447	11,570
Below Normal (6%)	11,627	11,218	13,435	8,681	3,271	2,528	4,629	6,649	8,594	13,032	16,224	18,354
Dry (13%)	11,000	11,281	13,006	12,533	9,593	5,915	6,816	9,276	12,152	14,345	15,703	17,545
Critical (25%)	13,896	13,654	15,088	11,143	10,682	9,935	10,280	13,123	15,938	16,855	17,461	17,886

Alternative 5 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-862	-917	-249	-1,289	-983	**2,097**	**1,017**	**1,242**	**1,095**	**552**	**757**	**113**
20%	-555	-1,784	-683	-233	-1,074	**1,737**	**1,051**	**1,621**	**659**	**761**	**846**	-40
30%	-1,343	-2,426	-3,040	-1,166	**1,379**	**1,794**	**1,879**	-659	**602**	**239**	**769**	**90**
40%	-2,879	-3,365	-2,552	**1,315**	**151**	**1,392**	**1,718**	**2,087**	**1,587**	**692**	**104**	**604**
50%	-3,186	-4,861	-1,643	**1,674**	**2,423**	**1,659**	**1,926**	**2,374**	**807**	-109	**708**	**373**
60%	-5,355	-6,142	-1,190	**1,018**	**1,423**	**1,362**	**1,706**	**1,299**	**2,039**	**702**	**818**	**6**
70%	-7,094	-4,621	-1,181	**283**	**280**	**377**	**1,022**	**3,109**	**2,607**	**1,248**	**1,247**	-4,645
80%	-8,723	-1,656	**4,066**	**169**	**76**	**133**	**934**	**2,367**	**2,400**	**1,738**	**1,182**	-7,255
90%	-1,089	**822**	**203**	**142**	**78**	**55**	**279**	**1,170**	**2,792**	**2,065**	**940**	-3,959
Long Term												
Full Simulation Period[a]	-2,709	-2,262	-765	-31	**376**	**1,030**	**1,154**	**1,455**	**1,541**	**1,092**	**1,376**	-1,085
Water Year Types[b]												
Wet (31%)	**1,033**	**992**	**243**	**618**	**146**	**184**	**688**	**1,984**	**2,267**	**2,457**	**3,455**	-2,684
Above Normal (25%)	-1,405	**39**	-994	-247	**108**	**128**	**783**	**1,697**	**2,874**	**1,944**	**1,049**	-4,232
Below Normal (6%)	-4,881	-6,142	-4,008	-575	**1,423**	**1,362**	**1,548**	**3,272**	**1,320**	**1,263**	**2,040**	**1,264**
Dry (13%)	-6,107	-4,345	-838	**1,120**	**1,259**	**1,943**	**1,835**	**1,169**	**886**	**238**	**552**	**632**
Critical (25%)	-3,073	-3,344	-774	-1,275	-250	**1,270**	**1,052**	**801**	**994**	**307**	**369**	-392

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-39-10. Sacramento River at Port Chicago, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	18,815	18,574	17,499	15,770	13,955	9,056	9,795	12,210	15,475	16,881	17,176	18,249
20%	18,380	18,236	17,360	13,964	11,874	8,135	8,796	11,387	13,854	16,043	16,859	18,138
30%	18,197	18,091	17,241	12,325	8,545	5,808	6,638	10,935	12,609	14,928	15,990	17,741
40%	18,173	17,881	16,230	9,256	8,381	3,616	5,121	8,000	11,040	13,982	15,459	17,090
50%	17,671	17,702	14,838	8,312	3,853	2,455	3,644	6,969	10,882	13,913	14,774	16,849
60%	16,983	17,360	13,905	7,663	1,848	1,165	2,912	5,350	8,978	11,769	14,185	16,550
70%	16,453	14,476	12,998	3,136	550	570	2,085	3,374	7,058	10,449	13,572	16,215
80%	16,331	9,405	4,859	696	258	252	1,371	2,963	6,195	9,527	13,315	15,732
90%	8,416	4,642	225	247	212	207	296	986	3,667	8,451	12,975	11,997
Long Term												
Full Simulation Period[a]	15,823	14,375	12,268	8,003	5,739	3,899	4,746	6,954	9,789	12,441	14,393	15,681
Water Year Types[b]												
Wet (31%)	11,574	7,489	3,635	2,094	346	372	1,167	2,229	4,649	7,361	10,812	10,792
Above Normal (25%)	18,544	17,592	14,803	1,338	299	258	1,063	2,468	5,483	9,335	13,397	15,803
Below Normal (6%)	16,508	17,360	17,443	9,256	1,848	1,165	3,081	3,377	7,275	11,769	14,185	17,090
Dry (13%)	17,107	15,626	13,845	11,413	8,333	3,972	4,980	8,107	11,265	14,108	15,151	16,912
Critical (25%)	16,969	16,998	15,863	12,418	10,932	8,665	9,228	12,322	14,944	16,548	17,092	18,278

Alternative 6A,6B,6C (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	15,484	15,067	12,482	10,452	10,746	8,620	10,246	12,646	15,463	17,613	17,405	16,362
20%	14,229	13,252	11,963	8,234	8,094	6,919	8,761	12,347	14,276	16,448	16,795	15,979
30%	13,194	12,271	10,539	8,058	6,266	5,384	6,916	9,942	12,882	15,833	16,197	15,091
40%	12,734	11,886	9,448	5,539	5,371	3,993	6,170	9,844	12,512	15,219	15,654	14,551
50%	12,434	11,148	8,269	4,839	3,745	3,305	5,100	8,756	11,639	14,785	15,158	14,231
60%	10,581	10,260	7,417	4,500	1,785	1,809	4,076	6,474	10,223	12,428	13,969	13,525
70%	9,051	7,496	7,282	2,417	839	938	2,990	5,697	8,641	11,131	12,609	11,409
80%	7,319	5,415	3,977	458	325	404	2,159	4,614	7,806	10,761	12,478	8,081
90%	7,165	4,079	362	409	293	269	649	2,139	6,131	10,167	11,929	7,741
Long Term												
Full Simulation Period[a]	11,342	9,939	7,934	5,424	4,588	3,924	5,409	7,951	10,804	13,519	14,456	12,938
Water Year Types[b]												
Wet (31%)	9,623	5,440	2,049	1,418	486	550	1,743	3,820	6,546	8,932	11,162	7,773
Above Normal (25%)	14,599	14,096	9,118	792	428	409	1,858	3,711	7,353	10,907	12,387	11,409
Below Normal (6%)	10,524	10,260	10,133	4,622	1,785	1,809	4,076	5,901	7,806	12,428	13,969	13,525
Dry (13%)	10,051	9,502	8,444	7,040	6,202	4,143	5,749	8,979	12,126	15,048	15,678	14,661
Critical (25%)	12,610	12,161	11,319	9,351	8,802	8,277	9,757	12,538	15,133	17,227	17,039	16,188

Alternative 6A,6B,6C (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-3,332	-3,507	-5,016	-5,318	-3,209	-435	**451**	**436**	-12	**732**	**229**	-1,887
20%	-4,151	-4,984	-5,397	-5,730	-3,780	-1,216	-35	**960**	**422**	**406**	-64	-2,159
30%	-5,003	-5,820	-6,702	-4,267	-2,279	-423	**279**	-993	**273**	**904**	**208**	-2,649
40%	-5,439	-5,994	-6,781	-3,716	-3,010	**376**	**1,049**	**1,844**	**1,472**	**1,237**	**195**	-2,539
50%	-5,236	-6,554	-6,569	-3,473	-108	**850**	**1,456**	**1,787**	**757**	**872**	**385**	-2,618
60%	-6,402	-7,100	-6,488	-3,163	-63	**644**	**1,163**	**1,124**	**1,244**	**659**	-215	-3,025
70%	-7,402	-6,980	-5,716	-719	**289**	**368**	**904**	**2,323**	**1,583**	**682**	-963	-4,806
80%	-9,012	-3,990	-882	-238	**67**	**152**	**788**	**1,651**	**1,611**	**1,234**	-837	-7,651
90%	-1,251	-563	**137**	**162**	**81**	**62**	**353**	**1,153**	**2,463**	**1,716**	-1,046	-4,257
Long Term												
Full Simulation Period[a]	-4,481	-4,436	-4,334	-2,579	-1,151	**25**	**663**	**997**	**1,015**	**1,078**	**63**	-2,743
Water Year Types[b]												
Wet (31%)	-1,952	-2,049	-1,586	-676	**140**	**177**	**576**	**1,591**	**1,897**	**1,571**	**350**	-3,019
Above Normal (25%)	-3,944	-3,495	-5,685	-546	**129**	**151**	**796**	**1,242**	**1,870**	**1,572**	-1,010	-4,394
Below Normal (6%)	-5,984	-7,100	-7,310	-4,633	-63	**644**	**995**	**2,525**	**532**	**659**	-215	-3,566
Dry (13%)	-7,057	-6,124	-5,400	-4,373	-2,131	**171**	**769**	**873**	**860**	**941**	**527**	-2,251
Critical (25%)	-4,359	-4,837	-4,544	-3,067	-2,130	-388	**530**	**216**	**189**	**679**	-53	-2,091

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-39-11. Sacramento River at Port Chicago, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	18,815	18,574	17,499	15,770	13,955	9,056	9,795	12,210	15,475	16,881	17,176	18,249
20%	18,380	18,236	17,360	13,964	11,874	8,135	8,796	11,387	13,854	16,043	16,859	18,138
30%	18,197	18,091	17,241	12,325	8,545	5,808	6,638	10,935	12,609	14,928	15,990	17,741
40%	18,173	17,881	16,230	9,256	8,381	3,616	5,121	8,000	11,040	13,982	15,459	17,090
50%	17,671	17,702	14,838	8,312	3,853	2,455	3,644	6,969	10,882	13,913	14,774	16,849
60%	16,983	17,360	13,905	7,663	1,848	1,165	2,912	5,350	8,978	11,769	14,185	16,550
70%	16,453	14,476	12,998	3,136	550	570	2,085	3,374	7,058	10,449	13,572	16,215
80%	16,331	9,405	4,859	696	258	252	1,371	2,963	6,195	9,527	13,315	15,732
90%	8,416	4,642	225	247	212	207	296	986	3,667	8,451	12,975	11,997
Long Term												
Full Simulation Period[a]	15,823	14,375	12,268	8,003	5,739	3,899	4,746	6,954	9,789	12,441	14,393	15,681
Water Year Types[b]												
Wet (31%)	11,574	7,489	3,635	2,094	346	372	1,167	2,229	4,649	7,361	10,812	10,792
Above Normal (25%)	18,544	17,592	14,803	1,338	299	258	1,063	2,468	5,483	9,335	13,397	15,803
Below Normal (6%)	16,508	17,360	17,443	9,256	1,848	1,165	3,081	3,377	7,275	11,769	14,185	17,090
Dry (13%)	17,107	15,626	13,845	11,413	8,333	3,972	4,980	8,107	11,265	14,108	15,151	16,912
Critical (25%)	16,969	16,998	15,863	12,418	10,932	8,665	9,228	12,322	14,944	16,548	17,092	18,278

Alternative 7 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	16,956	15,056	12,865	10,411	10,647	8,370	9,992	12,118	13,557	16,353	17,349	18,037
20%	16,270	13,434	12,051	8,128	7,999	6,789	8,642	11,642	12,986	15,770	17,193	17,814
30%	15,843	13,204	10,066	7,958	6,248	5,244	6,836	9,998	12,266	15,019	16,589	17,775
40%	15,768	12,800	9,226	5,914	5,216	3,548	5,980	9,884	12,104	14,998	15,766	17,489
50%	14,794	11,460	8,171	4,935	3,591	3,208	4,916	8,642	10,939	13,825	15,270	17,418
60%	10,493	10,322	7,507	4,820	2,055	1,873	3,879	6,396	9,731	12,810	15,016	17,350
70%	8,651	7,508	7,394	2,334	837	957	2,981	5,644	8,069	11,228	14,918	11,646
80%	7,212	5,636	4,120	465	319	406	2,111	4,638	7,099	10,671	14,623	8,510
90%	6,819	4,072	370	399	289	273	638	1,988	5,898	10,432	14,443	8,131
Long Term												
Full Simulation Period[a]	12,472	10,210	7,952	5,436	4,541	3,827	5,305	7,721	9,976	13,202	15,677	14,599
Water Year Types[b]												
Wet (31%)	10,788	5,651	2,111	1,508	486	562	1,735	3,796	6,147	9,700	14,458	8,179
Above Normal (25%)	16,764	14,061	8,710	761	418	408	1,859	3,640	6,689	10,641	14,612	11,646
Below Normal (6%)	10,493	10,607	10,180	4,820	2,055	1,873	3,879	5,744	7,882	12,904	15,766	17,380
Dry (13%)	10,005	9,601	8,444	7,054	6,077	3,955	5,603	8,923	11,720	14,398	15,528	17,836
Critical (25%)	14,471	12,726	11,483	9,277	8,701	8,093	9,587	11,927	13,379	16,130	17,179	17,771

Alternative 7 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,859	-3,518	-4,633	-5,359	-3,308	-686	**198**	-92	-1,917	-528	**174**	-212
20%	-2,110	-4,802	-5,309	-5,836	-3,875	-1,345	-155	**255**	-868	-272	**334**	-324
30%	-2,355	-4,888	-7,175	-4,367	-2,297	-564	**199**	-937	-343	**90**	**599**	**34**
40%	-2,405	-5,080	-7,004	-3,342	-3,165	-68	**859**	**1,884**	**1,064**	**1,016**	**308**	**399**
50%	-2,876	-6,242	-6,667	-3,377	-262	**753**	**1,272**	**1,673**	**58**	-88	**496**	**568**
60%	-6,490	-7,038	-6,398	-2,843	**207**	**708**	**967**	**1,047**	**752**	**1,041**	**832**	**800**
70%	-7,802	-6,968	-5,605	-802	**286**	**387**	**896**	**2,270**	**1,011**	**779**	**1,346**	-4,569
80%	-9,119	-3,769	-739	-231	**61**	**154**	**740**	**1,675**	**905**	**1,144**	**1,308**	-7,221
90%	-1,597	-570	**145**	**152**	**77**	**66**	**343**	**1,002**	**2,230**	**1,981**	**1,468**	-3,866
Long Term												
Full Simulation Period[a]	-3,351	-4,164	-4,315	-2,567	-1,198	-72	**559**	**767**	**188**	**761**	**1,284**	-1,082
Water Year Types[b]												
Wet (31%)	-786	-1,838	-1,524	-586	**140**	**189**	**567**	**1,567**	**1,497**	**2,339**	**3,645**	-2,612
Above Normal (25%)	-1,780	-3,531	-6,093	-577	**119**	**150**	**796**	**1,172**	**1,206**	**1,306**	**1,215**	-4,156
Below Normal (6%)	-6,015	-6,753	-7,263	-4,436	**207**	**708**	**799**	**2,368**	**607**	**1,135**	**1,582**	**290**
Dry (13%)	-7,102	-6,025	-5,401	-4,360	-2,256	-17	**623**	**816**	**454**	**291**	**377**	**924**
Critical (25%)	-2,498	-4,272	-4,379	-3,141	-2,231	-572	**359**	-395	-1,565	-418	**87**	-508

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-39-12. Sacramento River at Port Chicago, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	18,815	18,574	17,499	15,770	13,955	9,056	9,795	12,210	15,475	16,881	17,176	18,249
20%	18,380	18,236	17,360	13,964	11,874	8,135	8,796	11,387	13,854	16,043	16,859	18,138
30%	18,197	18,091	17,241	12,325	8,545	5,808	6,638	10,935	12,609	14,928	15,990	17,741
40%	18,173	17,881	16,230	9,256	8,381	3,616	5,121	8,000	11,040	13,982	15,459	17,090
50%	17,671	17,702	14,838	8,312	3,853	2,455	3,644	6,969	10,882	13,913	14,774	16,849
60%	16,983	17,360	13,905	7,663	1,848	1,165	2,912	5,350	8,978	11,769	14,185	16,550
70%	16,453	14,476	12,998	3,136	550	570	2,085	3,374	7,058	10,449	13,572	16,215
80%	16,331	9,405	4,859	696	258	252	1,371	2,963	6,195	9,527	13,315	15,732
90%	8,416	4,642	225	247	212	207	296	986	3,667	8,451	12,975	11,997
Long Term												
Full Simulation Period[a]	15,823	14,375	12,268	8,003	5,739	3,899	4,746	6,954	9,789	12,441	14,393	15,681
Water Year Types[b]												
Wet (31%)	11,574	7,489	3,635	2,094	346	372	1,167	2,229	4,649	7,361	10,812	10,792
Above Normal (25%)	18,544	17,592	14,803	1,338	299	258	1,063	2,468	5,483	9,335	13,397	15,803
Below Normal (6%)	16,508	17,360	17,443	9,256	1,848	1,165	3,081	3,377	7,275	11,769	14,185	17,090
Dry (13%)	17,107	15,626	13,845	11,413	8,333	3,972	4,980	8,107	11,265	14,108	15,151	16,912
Critical (25%)	16,969	16,998	15,863	12,418	10,932	8,665	9,228	12,322	14,944	16,548	17,092	18,278

Alternative 8 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	17,604	15,745	12,871	10,390	10,074	6,496	8,440	11,016	13,088	16,178	17,393	18,488
20%	17,501	14,923	12,609	8,275	7,892	6,012	7,781	9,943	12,004	15,124	17,227	18,214
30%	16,458	13,092	10,419	7,461	5,387	4,677	5,018	9,304	11,806	15,097	16,791	17,864
40%	15,845	12,654	9,361	5,511	4,498	2,485	4,313	7,775	11,399	14,959	16,618	17,787
50%	15,475	11,497	8,256	4,439	3,091	2,220	4,009	7,130	10,429	14,408	16,375	17,776
60%	10,248	10,443	7,599	3,609	1,470	1,556	3,247	5,159	9,260	13,044	16,127	17,658
70%	8,763	7,655	7,510	2,193	851	966	2,351	4,408	7,627	10,924	14,881	11,634
80%	7,239	6,085	4,007	442	318	385	1,820	4,023	6,874	10,665	14,674	8,288
90%	6,980	3,817	364	401	278	273	541	1,634	5,786	10,405	14,277	8,148
Long Term												
Full Simulation Period[a]	12,733	10,419	8,079	5,213	4,219	3,266	4,465	6,751	9,584	13,199	15,950	14,762
Water Year Types[b]												
Wet (31%)	11,117	5,708	2,132	1,190	502	568	1,526	3,220	5,860	9,510	14,303	8,119
Above Normal (25%)	16,583	14,147	9,102	764	389	395	1,491	3,092	6,538	10,650	14,653	11,634
Below Normal (6%)	10,248	10,464	10,162	4,423	1,470	1,556	3,247	4,032	7,380	13,044	16,331	18,214
Dry (13%)	10,496	10,056	8,585	6,726	5,274	2,924	4,196	7,900	11,528	14,763	16,509	18,320
Critical (25%)	14,773	12,978	11,606	9,158	8,430	7,188	8,464	10,665	12,668	15,948	17,263	17,792

Alternative 8 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,211	-2,829	-4,628	-5,380	-3,881	-2,560	-1,355	-1,195	-2,387	-703	**217**	**239**
20%	-879	-3,313	-4,751	-5,690	-3,982	-2,123	-1,015	-1,444	-1,850	-918	**368**	**76**
30%	-1,739	-4,999	-6,822	-4,864	-3,159	-1,131	-1,619	-1,631	-803	**169**	**801**	**124**
40%	-2,328	-5,227	-6,868	-3,745	-3,884	-1,131	-808	-225	**359**	**977**	**1,159**	**697**
50%	-2,196	-6,204	-6,582	-3,874	-761	-235	**365**	**161**	-453	**494**	**1,601**	**926**
60%	-6,735	-6,917	-6,306	-4,054	-378	**391**	**335**	-190	**281**	**1,275**	**1,943**	**1,109**
70%	-7,690	-6,822	-5,488	-943	**300**	**397**	**265**	**1,034**	**569**	**475**	**1,309**	-4,581
80%	-9,092	-3,321	-852	-253	**60**	**134**	**449**	**1,060**	**679**	**1,137**	**1,359**	-7,444
90%	-1,436	-825	**139**	**154**	**66**	**66**	**245**	**648**	**2,119**	**1,954**	**1,302**	-3,849
Long Term												
Full Simulation Period[a]	-3,090	-3,956	-4,189	-2,790	-1,520	-633	-281	-203	-204	**758**	**1,557**	-919
Water Year Types[b]												
Wet (31%)	-458	-1,782	-1,504	-904	**156**	**196**	**359**	**991**	**1,211**	**2,149**	**3,491**	-2,673
Above Normal (25%)	-1,960	-3,444	-5,701	-574	**90**	**137**	**428**	**624**	**1,055**	**1,315**	**1,256**	-4,168
Below Normal (6%)	-6,260	-6,896	-7,281	-4,833	-378	**391**	**167**	**656**	**105**	**1,275**	**2,147**	**1,124**
Dry (13%)	-6,611	-5,570	-5,260	-4,688	-3,059	-1,048	-784	-207	**263**	**655**	**1,359**	**1,408**
Critical (25%)	-2,196	-4,020	-4,257	-3,260	-2,502	-1,477	-764	-1,657	-2,276	-600	**171**	-487

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-39-13. Sacramento River at Port Chicago, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	18,815	18,574	17,499	15,770	13,955	9,056	9,795	12,210	15,475	16,881	17,176	18,249
20%	18,380	18,236	17,360	13,964	11,874	8,135	8,796	11,387	13,854	16,043	16,859	18,138
30%	18,197	18,091	17,241	12,325	8,545	5,808	6,638	10,935	12,609	14,928	15,990	17,741
40%	18,173	17,881	16,230	9,256	8,381	3,616	5,121	8,000	11,040	13,982	15,459	17,090
50%	17,671	17,702	14,838	8,312	3,853	2,455	3,644	6,969	10,882	13,913	14,774	16,849
60%	16,983	17,360	13,905	7,663	1,848	1,165	2,912	5,350	8,978	11,769	14,185	16,550
70%	16,453	14,476	12,998	3,136	550	570	2,085	3,374	7,058	10,449	13,572	16,215
80%	16,331	9,405	4,859	696	258	252	1,371	2,963	6,195	9,527	13,315	15,732
90%	8,416	4,642	225	247	212	207	296	986	3,667	8,451	12,975	11,997
Long Term												
Full Simulation Period[a]	15,823	14,375	12,268	8,003	5,739	3,899	4,746	6,954	9,789	12,441	14,393	15,681
Water Year Types[b]												
Wet (31%)	11,574	7,489	3,635	2,094	346	372	1,167	2,229	4,649	7,361	10,812	10,792
Above Normal (25%)	18,544	17,592	14,803	1,338	299	258	1,063	2,468	5,483	9,335	13,397	15,803
Below Normal (6%)	16,508	17,360	17,443	9,256	1,848	1,165	3,081	3,377	7,275	11,769	14,185	17,090
Dry (13%)	17,107	15,626	13,845	11,413	8,333	3,972	4,980	8,107	11,265	14,108	15,151	16,912
Critical (25%)	16,969	16,998	15,863	12,418	10,932	8,665	9,228	12,322	14,944	16,548	17,092	18,278

Alternative 9 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	19,321	19,932	19,491	17,237	14,857	10,580	10,461	13,092	15,831	16,796	16,957	18,177
20%	18,880	18,972	18,427	13,224	12,468	9,578	8,582	12,505	14,289	16,566	16,208	18,113
30%	18,695	18,779	16,431	12,394	8,959	6,712	7,285	8,635	11,764	15,147	15,891	17,822
40%	18,220	18,674	15,703	9,827	7,659	3,936	6,491	8,381	11,214	14,808	15,761	17,595
50%	17,549	14,916	13,495	8,721	5,543	3,602	5,609	8,139	10,806	14,125	15,400	17,434
60%	11,572	11,166	13,062	7,696	2,145	1,488	4,753	7,407	10,354	13,029	14,728	16,896
70%	9,309	9,451	11,694	3,151	692	757	3,142	6,857	9,038	11,899	14,370	11,974
80%	7,318	7,805	8,411	916	305	354	2,234	5,714	8,805	10,346	14,225	8,605
90%	7,194	5,344	420	383	281	256	539	2,010	6,788	9,787	13,653	8,055
Long Term												
Full Simulation Period[a]	14,176	13,479	12,455	8,480	6,327	4,571	5,637	7,889	10,667	13,405	15,234	14,670
Water Year Types[b]												
Wet (31%)	12,468	8,667	4,185	2,363	429	461	1,921	4,374	6,618	9,516	13,833	8,147
Above Normal (25%)	19,020	19,319	16,431	1,302	370	365	1,819	4,296	8,299	10,762	13,959	11,974
Below Normal (6%)	11,572	11,412	13,676	7,696	2,145	1,488	4,753	7,407	8,805	13,029	15,761	18,125
Dry (13%)	11,229	11,928	13,548	12,088	8,618	4,781	6,004	7,875	11,084	14,636	15,646	17,660
Critical (25%)	16,482	16,648	16,363	13,514	12,432	9,991	10,019	12,246	14,891	16,664	16,430	17,882

Alternative 9 (LLT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**505**	**1,358**	**1,993**	**1,467**	**903**	**1,524**	**666**	**881**	**356**	-85	-219	-72
20%	**500**	**736**	**1,067**	-741	**594**	**1,444**	-215	**1,117**	**435**	**523**	-652	-25
30%	**498**	**688**	-810	**69**	**414**	**904**	**648**	-2,300	-845	**218**	-99	**81**
40%	**47**	**793**	-527	**571**	-723	**320**	**1,371**	**381**	**174**	**826**	**302**	**505**
50%	-122	-2,786	-1,343	**409**	**1,690**	**1,147**	**1,965**	**1,171**	-76	**211**	**626**	**585**
60%	-5,411	-6,194	-843	**33**	**297**	**323**	**1,841**	**2,057**	**1,375**	**1,260**	**544**	**347**
70%	-7,144	-5,026	-1,304	**15**	**141**	**187**	**1,056**	**3,483**	**1,980**	**1,451**	**798**	-4,241
80%	-9,013	-1,600	**3,552**	**220**	**48**	**103**	**864**	**2,751**	**2,611**	**819**	**910**	-7,127
90%	-1,222	**702**	**195**	**136**	**69**	**49**	**243**	**1,024**	**3,121**	**1,336**	**678**	-3,942
Long Term												
Full Simulation Period[a]	-1,647	-895	**188**	**476**	**588**	**672**	**891**	**935**	**878**	**964**	**841**	-1,012
Water Year Types[b]												
Wet (31%)	**894**	**1,178**	**549**	**269**	**83**	**89**	**754**	**2,145**	**1,969**	**2,155**	**3,020**	-2,645
Above Normal (25%)	**476**	**1,727**	**1,628**	-36	**71**	**108**	**757**	**1,828**	**2,816**	**1,427**	**562**	-3,828
Below Normal (6%)	-4,936	-5,949	-3,767	-1,559	**297**	**323**	**1,672**	**4,030**	**1,531**	**1,260**	**1,577**	**1,035**
Dry (13%)	-5,878	-3,698	-297	**675**	**285**	**809**	**1,024**	-232	-182	**528**	**495**	**748**
Critical (25%)	-487	-350	**500**	**1,096**	**1,500**	**1,326**	**792**	-76	-53	**116**	-662	-396

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-39-14. Sacramento River at Port Chicago, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	18,324	18,595	18,167	14,600	14,062	11,236	10,711	13,078	16,240	16,711	17,385	18,799
20%	17,894	17,627	17,423	13,776	10,019	9,701	10,352	12,619	14,195	15,013	16,292	18,471
30%	17,547	17,545	15,545	11,625	9,659	7,002	8,423	10,235	12,634	14,644	15,712	18,304
40%	17,406	17,237	14,077	10,476	9,066	4,605	6,264	10,066	12,298	14,405	15,432	17,875
50%	16,920	13,899	13,275	9,210	5,971	3,769	5,178	8,902	11,429	13,370	14,508	17,527
60%	11,828	11,582	13,202	8,075	3,004	2,196	4,299	6,657	10,415	11,190	13,878	17,096
70%	9,531	9,991	12,040	3,445	944	1,052	2,899	6,120	9,618	9,948	13,130	11,896
80%	7,709	8,206	8,840	779	357	446	2,154	4,755	8,394	9,468	13,092	8,715
90%	7,535	5,485	551	465	298	282	622	2,020	6,609	8,268	12,779	8,103
Long Term												
Full Simulation Period[a]	13,821	12,917	11,950	8,105	6,285	4,772	5,772	8,182	11,085	12,514	14,717	14,911
Water Year Types[b]												
Wet (31%)	12,568	8,604	3,905	2,349	528	597	1,759	3,986	6,905	8,411	12,791	8,182
Above Normal (25%)	17,648	17,505	14,986	1,359	466	462	1,756	3,763	8,235	9,359	13,005	11,896
Below Normal (6%)	11,828	11,707	14,077	8,660	3,004	2,196	4,299	6,214	8,394	13,007	15,432	17,875
Dry (13%)	11,080	11,664	13,074	12,318	9,298	5,339	6,578	9,176	11,910	13,509	14,796	17,655
Critical (25%)	15,885	15,777	15,848	11,926	11,463	9,898	10,237	12,904	15,448	16,164	16,737	18,712

Alternative 1A,1B,1C (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	17,825	17,856	17,071	14,364	12,341	10,898	11,112	13,845	16,764	17,730	18,042	18,537
20%	17,594	17,742	16,713	13,357	11,244	9,960	10,577	13,135	14,370	16,647	17,459	18,345
30%	17,186	16,348	16,081	11,812	10,687	7,517	8,327	10,358	13,100	15,389	16,879	18,047
40%	16,459	15,765	15,727	10,904	8,807	5,799	7,546	10,261	12,007	15,174	16,384	17,868
50%	15,683	14,294	14,918	9,742	6,385	4,629	6,558	10,198	11,391	14,006	15,884	17,660
60%	15,540	13,923	13,289	8,126	2,862	1,895	5,538	9,513	11,035	12,211	14,900	17,595
70%	13,174	12,196	13,028	3,974	844	948	3,240	6,859	10,192	11,677	14,724	17,378
80%	11,825	11,506	10,493	1,093	390	381	2,507	6,573	9,908	11,113	14,309	16,933
90%	11,088	6,880	461	409	301	267	644	2,762	6,507	10,540	14,111	16,023
Long Term												
Full Simulation Period[a]	14,904	13,463	12,315	8,168	6,219	4,955	6,222	8,973	11,409	13,602	15,868	17,244
Water Year Types[b]												
Wet (31%)	13,555	7,841	3,498	2,853	510	554	2,136	4,850	6,958	9,645	14,178	15,972
Above Normal (25%)	14,953	15,623	14,093	1,238	425	395	2,039	5,341	8,954	11,499	14,724	17,732
Below Normal (6%)	11,781	12,432	16,095	9,223	2,862	1,895	5,904	9,513	9,947	13,383	16,650	18,865
Dry (13%)	17,267	16,466	14,925	11,330	9,462	6,123	6,902	9,353	11,796	14,325	15,754	17,291
Critical (25%)	14,696	14,900	15,813	12,451	11,182	9,979	10,685	13,314	15,936	17,073	17,613	17,705

Alternative 1A,1B,1C (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-499	-739	-1,096	-236	-1,722	-339	**401**	**767**	**525**	**1,019**	**657**	-263
20%	-300	**115**	-710	-420	**1,224**	**260**	**225**	**516**	**176**	**1,635**	**1,167**	-126
30%	-361	-1,197	**535**	**187**	**1,028**	**514**	-95	**123**	**466**	**745**	**1,167**	-257
40%	-947	-1,472	**1,650**	**428**	-259	**1,194**	**1,282**	**195**	-291	**769**	**952**	-7
50%	-1,237	**395**	**1,643**	**533**	**414**	**860**	**1,379**	**1,296**	-38	**635**	**1,376**	**133**
60%	**3,712**	**2,341**	**87**	**51**	-142	-301	**1,239**	**2,855**	**620**	**1,021**	**1,023**	**500**
70%	**3,643**	**2,205**	**988**	**529**	-100	-105	**341**	**739**	**574**	**1,728**	**1,594**	**5,482**
80%	**4,116**	**3,300**	**1,654**	**313**	**33**	-66	**353**	**1,818**	**1,514**	**1,644**	**1,217**	**8,217**
90%	**3,553**	**1,395**	-90	-56	**3**	-15	**22**	**742**	-102	**2,272**	**1,332**	**7,920**
Long Term												
Full Simulation Period[a]	**1,082**	**546**	**365**	**63**	-65	**184**	**451**	**792**	**324**	**1,087**	**1,151**	**2,333**
Water Year Types[b]												
Wet (31%)	**987**	-763	-407	**504**	-18	-42	**376**	**863**	**53**	**1,234**	**1,387**	**7,791**
Above Normal (25%)	-2,695	-1,882	-893	-121	-42	-67	**283**	**1,578**	**719**	**2,140**	**1,720**	**5,836**
Below Normal (6%)	-46	**725**	**2,018**	**563**	-142	-301	**1,604**	**3,299**	**1,553**	**375**	**1,218**	**990**
Dry (13%)	**6,187**	**4,802**	**1,852**	-987	**165**	**784**	**324**	**176**	-115	**815**	**957**	-364
Critical (25%)	-1,189	-877	-35	**525**	-281	**81**	**449**	**410**	**488**	**908**	**876**	-1,007

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-39-15. Sacramento River at Port Chicago, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	18,324	18,595	18,167	14,600	14,062	11,236	10,711	13,078	16,240	16,711	17,385	18,799
20%	17,894	17,627	17,423	13,776	10,019	9,701	10,352	12,619	14,195	15,013	16,292	18,471
30%	17,547	17,545	15,545	11,625	9,659	7,002	8,423	10,235	12,634	14,644	15,712	18,304
40%	17,406	17,237	14,077	10,476	9,066	4,605	6,264	10,066	12,298	14,405	15,432	17,875
50%	16,920	13,899	13,275	9,210	5,971	3,769	5,178	8,902	11,429	13,370	14,508	17,527
60%	11,828	11,582	13,202	8,075	3,004	2,196	4,299	6,657	10,415	11,190	13,878	17,096
70%	9,531	9,991	12,040	3,445	944	1,052	2,899	6,120	9,618	9,948	13,130	11,896
80%	7,709	8,206	8,840	779	357	446	2,154	4,755	8,394	9,468	13,092	8,715
90%	7,535	5,485	551	465	298	282	622	2,020	6,609	8,268	12,779	8,103
Long Term												
Full Simulation Period[a]	13,821	12,917	11,950	8,105	6,285	4,772	5,772	8,182	11,085	12,514	14,717	14,911
Water Year Types[b]												
Wet (31%)	12,568	8,604	3,905	2,349	528	597	1,759	3,986	6,905	8,411	12,791	8,182
Above Normal (25%)	17,648	17,505	14,986	1,359	466	462	1,756	3,763	8,235	9,359	13,005	11,896
Below Normal (6%)	11,828	11,707	14,077	8,660	3,004	2,196	4,299	6,214	8,394	13,007	15,432	17,875
Dry (13%)	11,080	11,664	13,074	12,318	9,298	5,339	6,578	9,176	11,910	13,509	14,796	17,655
Critical (25%)	15,885	15,777	15,848	11,926	11,463	9,898	10,237	12,904	15,448	16,164	16,737	18,712

Alternative 2A,2B,2C (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	17,159	18,133	16,586	12,363	12,279	10,485	11,081	13,814	16,793	17,709	17,957	18,578
20%	15,415	16,169	14,476	11,286	10,198	9,800	10,467	12,919	14,481	16,765	17,637	18,167
30%	14,841	15,014	13,820	10,430	8,433	7,398	8,544	10,122	12,908	15,164	16,786	17,953
40%	14,574	14,143	13,176	9,044	7,674	5,327	7,104	9,977	11,906	14,936	16,143	17,402
50%	13,568	11,768	12,917	8,412	6,349	4,726	5,876	9,056	11,262	13,954	15,741	17,231
60%	10,948	10,777	12,276	7,956	3,316	2,853	4,671	6,691	11,004	12,290	15,037	15,934
70%	9,047	9,410	11,429	3,668	862	955	3,158	6,399	9,148	11,341	14,593	11,647
80%	7,419	7,797	7,074	879	363	381	2,356	5,210	8,556	11,275	14,513	8,500
90%	7,289	5,383	473	407	304	270	650	2,253	6,291	10,528	14,324	8,168
Long Term												
Full Simulation Period[a]	12,301	11,830	11,000	7,166	5,735	4,931	6,052	8,383	11,130	13,529	15,868	14,616
Water Year Types[b]												
Wet (31%)	10,761	7,970	3,580	2,460	504	558	1,881	4,260	6,841	9,718	14,305	8,193
Above Normal (25%)	15,108	15,836	13,518	1,198	445	399	2,004	4,043	7,790	11,101	14,553	11,647
Below Normal (6%)	10,948	11,099	13,744	8,133	3,316	2,853	4,810	6,691	8,573	13,035	16,525	18,770
Dry (13%)	10,464	11,347	11,506	10,241	8,685	6,062	6,839	9,001	11,712	14,373	15,888	17,540
Critical (25%)	14,150	13,847	14,974	10,666	10,158	9,754	10,626	13,260	15,941	16,971	17,496	17,774

Alternative 2A,2B,2C (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,165	-462	-1,582	-2,237	-1,784	-752	**370**	**736**	**553**	**999**	**573**	-221
20%	-2,479	-1,458	-2,948	-2,491	**178**	**99**	**115**	**300**	**286**	**1,752**	**1,345**	-304
30%	-2,707	-2,531	-1,725	-1,195	-1,226	**395**	**121**	-114	**274**	**520**	**1,074**	-352
40%	-2,831	-3,094	-901	-1,432	-1,391	**722**	**839**	-89	-392	**531**	**711**	-473
50%	-3,352	-2,131	-358	-798	**379**	**957**	**698**	**154**	-167	**583**	**1,233**	-296
60%	-880	-805	-927	-118	**312**	**657**	**372**	**34**	**588**	**1,100**	**1,160**	-1,161
70%	-484	-581	-611	**223**	-81	-97	**259**	**279**	-470	**1,393**	**1,463**	-249
80%	-290	-409	-1,766	**99**	**6**	-65	**203**	**455**	**161**	**1,807**	**1,420**	-216
90%	-246	-102	-78	-58	**6**	-12	**28**	**233**	-319	**2,260**	**1,545**	**65**
Long Term												
Full Simulation Period[a]	-1,520	-1,088	-950	-938	-550	**159**	**280**	**201**	**44**	**1,014**	**1,150**	-294
Water Year Types[b]												
Wet (31%)	-1,806	-634	-325	**112**	-24	-39	**122**	**273**	-64	**1,307**	**1,514**	**11**
Above Normal (25%)	-2,540	-1,669	-1,468	-161	-22	-63	**248**	**280**	-445	**1,742**	**1,548**	-249
Below Normal (6%)	-880	-608	-333	-527	**312**	**657**	**511**	**478**	**178**	**28**	**1,093**	**895**
Dry (13%)	-616	-316	-1,567	-2,077	-612	**723**	**261**	-175	-198	**863**	**1,091**	-115
Critical (25%)	-1,735	-1,930	-874	-1,260	-1,305	-144	**389**	**356**	**493**	**807**	**759**	-938

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-39-16. Sacramento River at Port Chicago, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	18,324	18,595	18,167	14,600	14,062	11,236	10,711	13,078	16,240	16,711	17,385	18,799
20%	17,894	17,627	17,423	13,776	10,019	9,701	10,352	12,619	14,195	15,013	16,292	18,471
30%	17,547	17,545	15,545	11,625	9,659	7,002	8,423	10,235	12,634	14,644	15,712	18,304
40%	17,406	17,237	14,077	10,476	9,066	4,605	6,264	10,066	12,298	14,405	15,432	17,875
50%	16,920	13,899	13,275	9,210	5,971	3,769	5,178	8,902	11,429	13,370	14,508	17,527
60%	11,828	11,582	13,202	8,075	3,004	2,196	4,299	6,657	10,415	11,190	13,878	17,096
70%	9,531	9,991	12,040	3,445	944	1,052	2,899	6,120	9,618	9,948	13,130	11,896
80%	7,709	8,206	8,840	779	357	446	2,154	4,755	8,394	9,468	13,092	8,715
90%	7,535	5,485	551	465	298	282	622	2,020	6,609	8,268	12,779	8,103
Long Term												
Full Simulation Period[a]	13,821	12,917	11,950	8,105	6,285	4,772	5,772	8,182	11,085	12,514	14,717	14,911
Water Year Types[b]												
Wet (31%)	12,568	8,604	3,905	2,349	528	597	1,759	3,986	6,905	8,411	12,791	8,182
Above Normal (25%)	17,648	17,505	14,986	1,359	466	462	1,756	3,763	8,235	9,359	13,005	11,896
Below Normal (6%)	11,828	11,707	14,077	8,660	3,004	2,196	4,299	6,214	8,394	13,007	15,432	17,875
Dry (13%)	11,080	11,664	13,074	12,318	9,298	5,339	6,578	9,176	11,910	13,509	14,796	17,655
Critical (25%)	15,885	15,777	15,848	11,926	11,463	9,898	10,237	12,904	15,448	16,164	16,737	18,712

Alternative 3 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	17,989	17,703	17,231	13,488	12,042	10,846	11,165	13,972	16,703	17,664	18,024	18,490
20%	17,565	17,352	16,827	13,157	11,499	9,940	10,551	13,120	14,296	16,590	17,407	18,284
30%	17,239	16,647	16,364	12,488	10,566	7,053	8,227	10,391	13,049	15,243	16,755	18,090
40%	16,447	15,859	15,721	11,144	8,917	5,489	7,369	10,303	11,973	15,061	16,307	17,888
50%	15,138	14,210	14,453	9,262	6,171	4,093	6,548	10,184	11,691	14,040	15,802	17,658
60%	14,374	13,386	14,073	8,181	3,017	1,903	5,555	9,506	11,008	12,272	14,787	17,645
70%	13,128	12,231	13,068	3,742	834	946	3,210	6,917	10,263	11,787	14,563	17,189
80%	11,588	10,319	10,406	1,017	339	384	2,703	6,530	9,947	11,237	14,521	16,924
90%	10,554	6,787	436	399	291	266	640	2,834	6,513	10,384	14,263	16,364
Long Term												
Full Simulation Period[a]	14,711	13,301	12,397	7,977	6,031	4,828	6,219	9,010	11,437	13,595	15,843	17,261
Water Year Types[b]												
Wet (31%)	13,334	8,329	3,786	2,596	495	559	2,189	4,880	7,018	9,669	14,147	15,890
Above Normal (25%)	14,471	14,867	14,060	1,292	409	385	2,014	5,415	8,998	11,485	14,665	17,661
Below Normal (6%)	13,133	13,386	16,463	9,269	3,017	1,903	5,901	9,506	9,947	13,406	16,635	18,918
Dry (13%)	17,324	16,246	14,805	11,704	9,381	5,707	6,803	9,353	11,895	14,320	15,804	17,491
Critical (25%)	14,132	14,280	15,883	11,715	10,633	9,903	10,721	13,378	15,881	17,038	17,542	17,683

Alternative 3 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-335	-892	-937	-1,112	-2,020	-390	**454**	**894**	**463**	**953**	**639**	-309
20%	-329	-275	-597	-620	**1,479**	**239**	**199**	**501**	**102**	**1,577**	**1,115**	-187
30%	-308	-897	**818**	**862**	**906**	**51**	-196	**156**	**416**	**598**	**1,044**	-215
40%	-958	-1,379	**1,644**	**668**	-149	**883**	**1,104**	**237**	-325	**656**	**875**	**13**
50%	-1,782	**311**	**1,178**	**52**	**200**	**324**	**1,369**	**1,282**	**262**	**670**	**1,295**	**131**
60%	**2,546**	**1,804**	**870**	**106**	**13**	-293	**1,256**	**2,849**	**592**	**1,082**	**909**	**549**
70%	**3,597**	**2,240**	**1,029**	**297**	-110	-106	**311**	**798**	**644**	**1,839**	**1,432**	**5,293**
80%	**3,878**	**2,112**	**1,566**	**237**	-18	-62	**550**	**1,775**	**1,552**	**1,768**	**1,429**	**8,209**
90%	**3,019**	**1,302**	-115	-66	-8	-16	**17**	**814**	-96	**2,116**	**1,485**	**8,261**
Long Term												
Full Simulation Period[a]	**890**	**384**	**447**	-128	-253	**56**	**447**	**828**	**352**	**1,081**	**1,125**	**2,350**
Water Year Types[b]												
Wet (31%)	**766**	-275	-119	**247**	-34	-38	**430**	**894**	**113**	**1,257**	**1,357**	**7,709**
Above Normal (25%)	-3,177	-2,638	-926	-67	-57	-77	**258**	**1,651**	**763**	**2,126**	**1,661**	**5,765**
Below Normal (6%)	**1,305**	**1,679**	**2,386**	**610**	**13**	-293	**1,602**	**3,292**	**1,552**	**399**	**1,203**	**1,042**
Dry (13%)	**6,244**	**4,582**	**1,731**	-614	**83**	**369**	**224**	**176**	-15	**811**	**1,008**	-164
Critical (25%)	-1,752	-1,498	**35**	-211	-830	**5**	**485**	**474**	**432**	**874**	**805**	-1,029

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-39-17. Sacramento River at Port Chicago, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	18,324	18,595	18,167	14,600	14,062	11,236	10,711	13,078	16,240	16,711	17,385	18,799
20%	17,894	17,627	17,423	13,776	10,019	9,701	10,352	12,619	14,195	15,013	16,292	18,471
30%	17,547	17,545	15,545	11,625	9,659	7,002	8,423	10,235	12,634	14,644	15,712	18,304
40%	17,406	17,237	14,077	10,476	9,066	4,605	6,264	10,066	12,298	14,405	15,432	17,875
50%	16,920	13,899	13,275	9,210	5,971	3,769	5,178	8,902	11,429	13,370	14,508	17,527
60%	11,828	11,582	13,202	8,075	3,004	2,196	4,299	6,657	10,415	11,190	13,878	17,096
70%	9,531	9,991	12,040	3,445	944	1,052	2,899	6,120	9,618	9,948	13,130	11,896
80%	7,709	8,206	8,840	779	357	446	2,154	4,755	8,394	9,468	13,092	8,715
90%	7,535	5,485	551	465	298	282	622	2,020	6,609	8,268	12,779	8,103
Long Term												
Full Simulation Period[a]	13,821	12,917	11,950	8,105	6,285	4,772	5,772	8,182	11,085	12,514	14,717	14,911
Water Year Types[b]												
Wet (31%)	12,568	8,604	3,905	2,349	528	597	1,759	3,986	6,905	8,411	12,791	8,182
Above Normal (25%)	17,648	17,505	14,986	1,359	466	462	1,756	3,763	8,235	9,359	13,005	11,896
Below Normal (6%)	11,828	11,707	14,077	8,660	3,004	2,196	4,299	6,214	8,394	13,007	15,432	17,875
Dry (13%)	11,080	11,664	13,074	12,318	9,298	5,339	6,578	9,176	11,910	13,509	14,796	17,655
Critical (25%)	15,885	15,777	15,848	11,926	11,463	9,898	10,237	12,904	15,448	16,164	16,737	18,712

Alternative 4 H1 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	17,133	18,363	17,250	12,074	11,681	10,245	11,109	13,715	16,760	17,758	17,996	18,419
20%	16,835	16,666	16,589	11,014	9,730	10,053	10,549	12,941	14,259	16,577	17,686	18,222
30%	16,088	15,890	15,940	9,359	8,529	7,317	8,493	10,123	12,988	15,249	16,677	18,001
40%	15,720	15,050	15,009	9,068	7,487	5,299	6,870	10,008	12,400	15,071	16,108	17,755
50%	15,117	14,927	14,312	8,560	6,169	4,365	5,742	9,291	11,350	13,722	15,915	17,720
60%	15,093	14,757	13,329	7,541	3,066	2,326	4,588	6,700	11,016	12,282	14,695	17,381
70%	14,582	13,392	12,508	3,667	853	957	3,179	6,382	9,145	11,537	14,463	17,245
80%	13,618	10,771	6,639	862	338	383	2,334	5,297	8,225	11,286	14,416	16,960
90%	12,912	6,724	408	405	296	270	650	2,169	6,270	10,259	14,180	15,782
Long Term												
Full Simulation Period[a]	15,059	13,570	11,894	7,110	5,689	4,832	6,020	8,398	11,141	13,531	15,820	17,147
Water Year Types[b]												
Wet (31%)	13,165	7,888	3,511	2,358	498	563	1,877	4,205	6,814	9,696	14,178	15,950
Above Normal (25%)	15,456	16,120	13,641	1,166	426	391	2,016	4,089	7,835	11,085	14,463	17,568
Below Normal (6%)	13,618	13,752	16,589	8,833	3,066	2,326	4,588	6,700	8,225	12,769	16,455	18,753
Dry (13%)	16,369	15,379	13,579	10,256	8,513	5,841	6,785	9,121	11,922	14,313	15,755	16,957
Critical (25%)	15,658	15,613	15,614	10,429	10,212	9,718	10,610	13,238	15,884	17,106	17,600	17,766

Alternative 4 H1 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,191	-232	-918	-2,525	-2,382	-992	**399**	**637**	**520**	**1,047**	**612**	-381
20%	-1,060	-961	-834	-2,763	-290	**353**	**197**	**322**	**65**	**1,564**	**1,394**	-249
30%	-1,460	-1,655	**395**	-2,266	-1,131	**315**	**70**	-113	**354**	**605**	**965**	-303
40%	-1,685	-2,188	**932**	-1,408	-1,578	**694**	**605**	-58	**102**	**666**	**676**	-120
50%	-1,803	**1,028**	**1,037**	-650	**199**	**596**	**563**	**389**	-79	**352**	**1,407**	**192**
60%	**3,265**	**3,175**	**127**	-534	**61**	**130**	**289**	**42**	**601**	**1,092**	**817**	**285**
70%	**5,051**	**3,401**	**468**	**222**	-91	-96	**280**	**262**	-473	**1,589**	**1,333**	**5,349**
80%	**5,909**	**2,565**	-2,200	**83**	-19	-63	**181**	**542**	-169	**1,817**	**1,324**	**8,244**
90%	**5,377**	**1,239**	-143	-61	-3	-13	**28**	**149**	-339	**1,991**	**1,402**	**7,680**
Long Term												
Full Simulation Period[a]	**1,238**	**653**	-56	-994	-596	**60**	**248**	**216**	**56**	**1,017**	**1,102**	**2,236**
Water Year Types[b]												
Wet (31%)	**598**	-716	-394	**9**	-30	-34	**117**	**218**	-91	**1,285**	**1,387**	**7,768**
Above Normal (25%)	-2,192	-1,385	-1,345	-193	-40	-70	**260**	**326**	-399	**1,726**	**1,459**	**5,672**
Below Normal (6%)	**1,790**	**2,045**	**2,513**	**173**	**61**	**130**	**289**	**486**	-169	-238	**1,023**	**878**
Dry (13%)	**5,289**	**3,715**	**506**	-2,062	-785	**503**	**207**	-55	**12**	**803**	**959**	-698
Critical (25%)	-227	-165	-234	-1,497	-1,251	-180	**373**	**334**	**436**	**941**	**863**	-945

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H1" represents the low delta outflow scenario of Alternative 4.

Table C-39-18. Sacramento River at Port Chicago, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	18,324	18,595	18,167	14,600	14,062	11,236	10,711	13,078	16,240	16,711	17,385	18,799
20%	17,894	17,627	17,423	13,776	10,019	9,701	10,352	12,619	14,195	15,013	16,292	18,471
30%	17,547	17,545	15,545	11,625	9,659	7,002	8,423	10,235	12,634	14,644	15,712	18,304
40%	17,406	17,237	14,077	10,476	9,066	4,605	6,264	10,066	12,298	14,405	15,432	17,875
50%	16,920	13,899	13,275	9,210	5,971	3,769	5,178	8,902	11,429	13,370	14,508	17,527
60%	11,828	11,582	13,202	8,075	3,004	2,196	4,299	6,657	10,415	11,190	13,878	17,096
70%	9,531	9,991	12,040	3,445	944	1,052	2,899	6,120	9,618	9,948	13,130	11,896
80%	7,709	8,206	8,840	779	357	446	2,154	4,755	8,394	9,468	13,092	8,715
90%	7,535	5,485	551	465	298	282	622	2,020	6,609	8,268	12,779	8,103
Long Term												
Full Simulation Period[a]	13,821	12,917	11,950	8,105	6,285	4,772	5,772	8,182	11,085	12,514	14,717	14,911
Water Year Types[b]												
Wet (31%)	12,568	8,604	3,905	2,349	528	597	1,759	3,986	6,905	8,411	12,791	8,182
Above Normal (25%)	17,648	17,505	14,986	1,359	466	462	1,756	3,763	8,235	9,359	13,005	11,896
Below Normal (6%)	11,828	11,707	14,077	8,660	3,004	2,196	4,299	6,214	8,394	13,007	15,432	17,875
Dry (13%)	11,080	11,664	13,074	12,318	9,298	5,339	6,578	9,176	11,910	13,509	14,796	17,655
Critical (25%)	15,885	15,777	15,848	11,926	11,463	9,898	10,237	12,904	15,448	16,164	16,737	18,712

Alternative 4 H2 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	17,165	18,227	17,204	13,516	11,955	10,082	10,710	13,637	16,646	17,572	17,950	18,513
20%	16,895	17,341	16,725	12,570	9,952	9,511	10,400	12,604	14,363	16,717	17,887	18,457
30%	16,026	16,364	16,613	10,869	8,884	7,163	8,241	10,132	12,959	15,256	16,627	17,802
40%	15,994	15,477	16,162	9,701	8,012	5,232	6,971	9,991	12,403	15,037	16,396	17,598
50%	15,608	14,664	14,374	8,431	6,260	4,232	5,644	8,254	11,632	14,009	15,690	17,468
60%	14,888	13,971	13,208	7,048	2,839	2,261	3,335	6,199	9,348	12,863	14,987	17,350
70%	14,133	12,998	12,293	3,552	825	953	1,910	5,236	8,588	11,478	14,820	17,256
80%	13,814	10,466	6,200	790	346	378	977	2,865	7,463	11,194	14,757	17,017
90%	12,146	6,025	393	402	293	269	620	1,932	6,300	10,654	14,335	16,561
Long Term												
Full Simulation Period[a]	14,969	13,456	12,015	7,393	5,742	4,722	5,595	7,880	10,947	13,640	15,894	17,209
Water Year Types[b]												
Wet (31%)	13,308	7,711	3,548	2,450	498	561	1,080	3,093	6,210	9,656	14,234	15,603
Above Normal (25%)	15,224	15,855	13,203	1,067	401	388	966	2,637	7,266	11,365	14,813	17,467
Below Normal (6%)	17,116	17,341	16,725	8,203	2,839	2,261	4,479	6,199	8,299	13,010	16,528	18,781
Dry (13%)	15,957	15,052	13,825	10,946	8,831	5,697	6,656	9,151	12,057	14,603	15,867	17,755
Critical (25%)	14,976	15,040	15,923	10,874	10,183	9,495	10,433	13,127	15,852	17,092	17,549	17,638

Alternative 4 H2 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,159	-368	-964	-1,084	-2,108	-1,155	-1	**560**	**406**	**861**	**565**	-286
20%	-999	-286	-698	-1,207	-68	-190	**48**	-15	**168**	**1,704**	**1,595**	-14
30%	-1,522	-1,181	**1,068**	-757	-776	**161**	-182	-104	**326**	**612**	**916**	-502
40%	-1,412	-1,760	**2,086**	-775	-1,054	**627**	**707**	-75	**105**	**632**	**964**	-277
50%	-1,312	**766**	**1,099**	-779	**289**	**463**	**465**	-648	**203**	**639**	**1,182**	-59
60%	**3,060**	**2,389**	**5**	-1,026	-165	**65**	-965	-458	-1,068	**1,673**	**1,110**	**254**
70%	**4,602**	**3,007**	**253**	**108**	-119	-99	-989	-884	-1,030	**1,530**	**1,689**	**5,361**
80%	**6,105**	**2,260**	-2,639	**11**	-11	-69	-1,177	-1,890	-931	**1,725**	**1,665**	**8,301**
90%	**4,610**	**540**	-158	-63	-5	-13	-3	-87	-309	**2,386**	**1,556**	**8,458**
Long Term												
Full Simulation Period[a]	**1,148**	**539**	**65**	-711	-543	-50	-176	-302	-138	**1,125**	**1,177**	**2,298**
Water Year Types[b]												
Wet (31%)	**741**	-894	-357	**101**	-31	-36	-679	-894	-695	**1,245**	**1,443**	**7,421**
Above Normal (25%)	-2,424	-1,650	-1,783	-292	-66	-74	-790	-1,127	-969	**2,005**	**1,809**	**5,571**
Below Normal (6%)	**5,289**	**5,634**	**2,648**	-457	-165	**65**	**180**	-15	-95	**3**	**1,096**	**906**
Dry (13%)	**4,877**	**3,388**	**751**	-1,372	-466	**359**	**78**	-26	**146**	**1,094**	**1,071**	**100**
Critical (25%)	-908	-738	**75**	-1,052	-1,280	-402	**197**	**223**	**403**	**927**	**811**	-1,074

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H2" represents the enchanced spring delta outflow scenario of Alternative 4.

Table C-39-19. Sacramento River at Port Chicago, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	18,324	18,595	18,167	14,600	14,062	11,236	10,711	13,078	16,240	16,711	17,385	18,799
20%	17,894	17,627	17,423	13,776	10,019	9,701	10,352	12,619	14,195	15,013	16,292	18,471
30%	17,547	17,545	15,545	11,625	9,659	7,002	8,423	10,235	12,634	14,644	15,712	18,304
40%	17,406	17,237	14,077	10,476	9,066	4,605	6,264	10,066	12,298	14,405	15,432	17,875
50%	16,920	13,899	13,275	9,210	5,971	3,769	5,178	8,902	11,429	13,370	14,508	17,527
60%	11,828	11,582	13,202	8,075	3,004	2,196	4,299	6,657	10,415	11,190	13,878	17,096
70%	9,531	9,991	12,040	3,445	944	1,052	2,899	6,120	9,618	9,948	13,130	11,896
80%	7,709	8,206	8,840	779	357	446	2,154	4,755	8,394	9,468	13,092	8,715
90%	7,535	5,485	551	465	298	282	622	2,020	6,609	8,268	12,779	8,103
Long Term												
Full Simulation Period[a]	13,821	12,917	11,950	8,105	6,285	4,772	5,772	8,182	11,085	12,514	14,717	14,911
Water Year Types[b]												
Wet (31%)	12,568	8,604	3,905	2,349	528	597	1,759	3,986	6,905	8,411	12,791	8,182
Above Normal (25%)	17,648	17,505	14,986	1,359	466	462	1,756	3,763	8,235	9,359	13,005	11,896
Below Normal (6%)	11,828	11,707	14,077	8,660	3,004	2,196	4,299	6,214	8,394	13,007	15,432	17,875
Dry (13%)	11,080	11,664	13,074	12,318	9,298	5,339	6,578	9,176	11,910	13,509	14,796	17,655
Critical (25%)	15,885	15,777	15,848	11,926	11,463	9,898	10,237	12,904	15,448	16,164	16,737	18,712

Alternative 4 H3 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	17,330	18,116	16,145	12,332	12,584	10,456	11,076	13,796	16,781	17,775	17,965	18,508
20%	16,922	17,008	14,421	11,286	9,734	10,048	10,512	12,921	14,481	16,764	17,789	18,146
30%	15,839	15,710	13,525	9,825	8,911	7,318	8,519	10,127	12,915	15,429	16,812	17,763
40%	15,054	14,989	13,101	8,530	7,627	5,329	7,073	10,004	12,070	15,006	16,417	17,428
50%	13,271	11,440	12,789	8,237	6,227	4,406	5,834	9,097	11,366	13,863	15,885	17,125
60%	10,970	10,779	12,093	7,812	2,978	2,603	4,674	6,709	11,013	12,306	14,603	15,829
70%	8,999	9,087	11,415	3,540	851	959	3,185	6,409	9,164	11,379	14,560	11,597
80%	7,408	7,781	6,968	877	344	384	2,338	5,216	8,583	11,295	14,510	8,470
90%	7,273	5,379	427	404	299	270	650	2,170	6,254	10,244	14,317	8,123
Long Term												
Full Simulation Period[a]	12,484	11,949	10,859	7,032	5,770	4,902	6,052	8,383	11,153	13,555	15,886	14,553
Water Year Types[b]												
Wet (31%)	11,276	7,843	3,538	2,373	499	564	1,878	4,212	6,837	9,610	14,187	8,169
Above Normal (25%)	14,771	15,551	13,083	1,115	428	391	2,006	4,049	7,783	11,090	14,541	11,597
Below Normal (6%)	10,970	11,097	13,744	8,131	2,978	2,603	4,724	6,709	8,600	13,061	16,549	18,788
Dry (13%)	10,488	11,355	11,466	10,131	8,581	5,862	6,839	9,040	11,808	14,308	15,857	17,287
Critical (25%)	14,434	14,437	14,763	10,429	10,432	9,870	10,647	13,263	15,940	17,193	17,675	17,809

Alternative 4 H3 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-994	-479	-2,023	-2,268	-1,478	-780	**365**	**718**	**541**	**1,065**	**580**	-292
20%	-972	-619	-3,002	-2,491	-286	**347**	**160**	**302**	**286**	**1,751**	**1,496**	-325
30%	-1,708	-1,834	-2,020	-1,800	-748	**316**	**96**	-108	**281**	**784**	**1,100**	-542
40%	-2,352	-2,249	-976	-1,946	-1,439	**724**	**809**	-62	-228	**601**	**985**	-448
50%	-3,649	-2,459	-486	-972	**256**	**637**	**655**	**195**	-63	**493**	**1,377**	-402
60%	-858	-802	-1,109	-263	-27	**407**	**374**	**52**	**598**	**1,116**	**725**	-1,266
70%	-532	-904	-625	**95**	-93	-94	**286**	**289**	-454	**1,431**	**1,429**	-299
80%	-301	-425	-1,872	**97**	-13	-63	**184**	**461**	**189**	**1,827**	**1,418**	-245
90%	-262	-105	-125	-61	**0**	-12	**27**	**150**	-355	**1,976**	**1,538**	**20**
Long Term												
Full Simulation Period[a]	-1,337	-969	-1,091	-1,072	-515	**130**	**281**	**201**	**68**	**1,040**	**1,169**	-358
Water Year Types[b]												
Wet (31%)	-1,292	-761	-367	**24**	-29	-33	**118**	**226**	-68	**1,199**	**1,396**	-13
Above Normal (25%)	-2,877	-1,954	-1,903	-244	-39	-70	**250**	**286**	-452	**1,730**	**1,537**	-299
Below Normal (6%)	-858	-610	-332	-528	-27	**407**	**425**	**495**	**205**	**54**	**1,117**	**912**
Dry (13%)	-592	-308	-1,608	-2,187	-717	**523**	**261**	-136	-102	**799**	**1,060**	-368
Critical (25%)	-1,450	-1,340	-1,085	-1,498	-1,031	-28	**411**	**360**	**492**	**1,028**	**938**	-902

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H3" represents the fall X2 scenario of Alternative 4.

Table C-39-20. Sacramento River at Port Chicago, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	18,324	18,595	18,167	14,600	14,062	11,236	10,711	13,078	16,240	16,711	17,385	18,799
20%	17,894	17,627	17,423	13,776	10,019	9,701	10,352	12,619	14,195	15,013	16,292	18,471
30%	17,547	17,545	15,545	11,625	9,659	7,002	8,423	10,235	12,634	14,644	15,712	18,304
40%	17,406	17,237	14,077	10,476	9,066	4,605	6,264	10,066	12,298	14,405	15,432	17,875
50%	16,920	13,899	13,275	9,210	5,971	3,769	5,178	8,902	11,429	13,370	14,508	17,527
60%	11,828	11,582	13,202	8,075	3,004	2,196	4,299	6,657	10,415	11,190	13,878	17,096
70%	9,531	9,991	12,040	3,445	944	1,052	2,899	6,120	9,618	9,948	13,130	11,896
80%	7,709	8,206	8,840	779	357	446	2,154	4,755	8,394	9,468	13,092	8,715
90%	7,535	5,485	551	465	298	282	622	2,020	6,609	8,268	12,779	8,103
Long Term												
Full Simulation Period[a]	13,821	12,917	11,950	8,105	6,285	4,772	5,772	8,182	11,085	12,514	14,717	14,911
Water Year Types[b]												
Wet (31%)	12,568	8,604	3,905	2,349	528	597	1,759	3,986	6,905	8,411	12,791	8,182
Above Normal (25%)	17,648	17,505	14,986	1,359	466	462	1,756	3,763	8,235	9,359	13,005	11,896
Below Normal (6%)	11,828	11,707	14,077	8,660	3,004	2,196	4,299	6,214	8,394	13,007	15,432	17,875
Dry (13%)	11,080	11,664	13,074	12,318	9,298	5,339	6,578	9,176	11,910	13,509	14,796	17,655
Critical (25%)	15,885	15,777	15,848	11,926	11,463	9,898	10,237	12,904	15,448	16,164	16,737	18,712

Alternative 4 H4 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	17,335	17,723	17,169	14,237	13,254	10,441	10,900	13,575	16,630	17,540	17,816	18,407
20%	16,247	16,605	15,499	12,562	11,667	9,864	10,362	12,607	14,364	16,720	17,582	17,592
30%	15,235	15,431	13,673	11,642	9,136	7,168	8,201	10,132	12,967	15,322	16,710	17,482
40%	13,828	13,770	13,074	8,751	7,608	5,533	6,928	10,010	12,424	15,219	16,341	17,323
50%	12,912	11,485	12,767	8,330	6,260	4,210	5,743	8,265	11,710	14,015	15,818	17,249
60%	10,865	10,816	11,858	7,833	2,878	2,584	3,357	6,210	9,458	12,568	15,101	17,146
70%	8,982	8,325	11,389	3,617	829	952	1,901	5,314	8,336	11,415	14,872	11,665
80%	7,374	7,803	6,961	786	355	382	977	2,865	7,497	11,180	14,729	8,458
90%	7,246	5,498	450	396	298	269	614	1,950	6,288	10,646	14,383	8,140
Long Term												
Full Simulation Period[a]	12,261	11,692	11,019	7,702	6,064	4,849	5,632	7,891	10,935	13,610	15,900	14,568
Water Year Types[b]												
Wet (31%)	10,835	7,538	3,543	2,449	501	561	1,075	3,132	6,236	9,620	14,296	8,160
Above Normal (25%)	14,957	15,580	13,254	1,097	407	389	961	2,654	7,275	11,360	14,872	11,665
Below Normal (6%)	10,865	11,085	13,725	7,993	2,878	2,584	4,625	6,210	7,794	12,568	16,341	18,779
Dry (13%)	10,442	11,322	11,703	10,341	8,700	5,689	6,672	9,160	12,093	14,673	15,937	17,835
Critical (25%)	14,057	13,879	15,017	12,377	11,305	9,845	10,516	13,113	15,860	17,062	17,477	17,400

Alternative 4 H4 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-989	-872	-998	-363	-809	-795	**189**	**497**	**390**	**829**	**432**	-393
20%	-1,647	-1,022	-1,924	-1,214	**1,648**	**163**	**10**	-12	**169**	**1,707**	**1,290**	-879
30%	-2,312	-2,114	-1,873	**17**	-523	**166**	-222	-104	**333**	**678**	**999**	-822
40%	-3,578	-3,467	-1,003	-1,725	-1,457	**928**	**664**	-57	**126**	**814**	**909**	-552
50%	-4,008	-2,413	-508	-880	**289**	**441**	**565**	-637	**281**	**645**	**1,310**	-278
60%	-962	-766	-1,344	-242	-126	**388**	-942	-448	-957	**1,378**	**1,224**	**50**
70%	-549	-1,667	-650	**173**	-115	-100	-998	-805	-1,282	**1,466**	**1,741**	-231
80%	-335	-403	-1,878	**6**	-2	-65	-1,176	-1,890	-897	**1,711**	**1,637**	-257
90%	-290	**13**	-102	-69	0	-14	-9	-70	-321	**2,378**	**1,604**	**37**
Long Term												
Full Simulation Period[a]	-1,560	-1,225	-931	-403	-221	**77**	-140	-291	-150	**1,096**	**1,183**	-343
Water Year Types[b]												
Wet (31%)	-1,733	-1,066	-362	**100**	-27	-36	-684	-854	-669	**1,208**	**1,505**	-22
Above Normal (25%)	-2,691	-1,925	-1,732	-262	-59	-73	-795	-1,109	-959	**2,001**	**1,867**	-231
Below Normal (6%)	-962	-622	-351	-666	-126	**388**	**326**	-4	-600	-439	**909**	**904**
Dry (13%)	-638	-342	-1,371	-1,977	-598	**351**	**94**	-16	**183**	**1,163**	**1,141**	**179**
Critical (25%)	-1,828	-1,899	-831	**450**	-158	-53	**279**	**209**	**412**	**897**	**740**	-1,312

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

"Alternative 4 H4" represents the high delta outflow scenario of Alternative 4.

Table C-39-21. Sacramento River at Port Chicago, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	18,324	18,595	18,167	14,600	14,062	11,236	10,711	13,078	16,240	16,711	17,385	18,799
20%	17,894	17,627	17,423	13,776	10,019	9,701	10,352	12,619	14,195	15,013	16,292	18,471
30%	17,547	17,545	15,545	11,625	9,659	7,002	8,423	10,235	12,634	14,644	15,712	18,304
40%	17,406	17,237	14,077	10,476	9,066	4,605	6,264	10,066	12,298	14,405	15,432	17,875
50%	16,920	13,899	13,275	9,210	5,971	3,769	5,178	8,902	11,429	13,370	14,508	17,527
60%	11,828	11,582	13,202	8,075	3,004	2,196	4,299	6,657	10,415	11,190	13,878	17,096
70%	9,531	9,991	12,040	3,445	944	1,052	2,899	6,120	9,618	9,948	13,130	11,896
80%	7,709	8,206	8,840	779	357	446	2,154	4,755	8,394	9,468	13,092	8,715
90%	7,535	5,485	551	465	298	282	622	2,020	6,609	8,268	12,779	8,103
Long Term												
Full Simulation Period[a]	13,821	12,917	11,950	8,105	6,285	4,772	5,772	8,182	11,085	12,514	14,717	14,911
Water Year Types[b]												
Wet (31%)	12,568	8,604	3,905	2,349	528	597	1,759	3,986	6,905	8,411	12,791	8,182
Above Normal (25%)	17,648	17,505	14,986	1,359	466	462	1,756	3,763	8,235	9,359	13,005	11,896
Below Normal (6%)	11,828	11,707	14,077	8,660	3,004	2,196	4,299	6,214	8,394	13,007	15,432	17,875
Dry (13%)	11,080	11,664	13,074	12,318	9,298	5,339	6,578	9,176	11,910	13,509	14,796	17,655
Critical (25%)	15,885	15,777	15,848	11,926	11,463	9,898	10,237	12,904	15,448	16,164	16,737	18,712

Alternative 5 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	17,954	17,657	17,249	14,481	12,971	11,152	10,811	13,452	16,570	17,433	17,932	18,362
20%	17,824	16,452	16,677	13,731	10,800	9,872	9,847	13,008	14,513	16,803	17,705	18,098
30%	16,854	15,665	14,200	11,159	9,925	7,602	8,517	10,276	13,211	15,167	16,758	17,831
40%	15,293	14,516	13,678	10,570	8,532	5,008	6,839	10,087	12,627	14,674	15,563	17,695
50%	14,485	12,841	13,196	9,986	6,276	4,114	5,570	9,343	11,688	13,804	15,482	17,222
60%	11,627	11,218	12,715	8,681	3,271	2,528	4,618	6,649	11,018	12,471	15,002	16,556
70%	9,360	9,855	11,817	3,419	830	946	3,108	6,484	9,665	11,697	14,819	11,570
80%	7,608	7,749	8,925	864	334	385	2,305	5,330	8,594	11,265	14,497	8,477
90%	7,327	5,464	428	390	290	262	575	2,155	6,460	10,516	13,916	8,038
Long Term												
Full Simulation Period[a]	13,114	12,112	11,502	7,972	6,115	4,929	5,900	8,409	11,329	13,533	15,769	14,596
Water Year Types[b]												
Wet (31%)	12,607	8,481	3,879	2,712	492	557	1,855	4,213	6,916	9,818	14,267	8,108
Above Normal (25%)	17,139	17,630	13,809	1,091	407	385	1,846	4,165	8,357	11,279	14,447	11,570
Below Normal (6%)	11,627	11,218	13,435	8,681	3,271	2,528	4,629	6,649	8,594	13,032	16,224	18,354
Dry (13%)	11,000	11,281	13,006	12,533	9,593	5,915	6,816	9,276	12,152	14,345	15,703	17,545
Critical (25%)	13,896	13,654	15,088	11,143	10,682	9,935	10,280	13,123	15,938	16,855	17,461	17,886

Alternative 5 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-370	-938	-918	-119	-1,091	-84	**100**	**374**	**330**	**722**	**548**	-437
20%	-70	-1,175	-746	-45	**780**	**171**	-505	**389**	**318**	**1,790**	**1,413**	-373
30%	-693	-1,880	-1,345	-466	**265**	**600**	**94**	**40**	**577**	**523**	**1,047**	-474
40%	-2,112	-2,721	-399	**95**	-534	**403**	**575**	**21**	**329**	**269**	**131**	-181
50%	-2,435	-1,058	-80	**777**	**305**	**345**	**392**	**441**	**259**	**434**	**974**	-305
60%	-200	-364	-487	**606**	**266**	**332**	**319**	-8	**603**	**1,281**	**1,125**	-540
70%	-172	-136	-222	-26	-114	-106	**208**	**364**	**46**	**1,749**	**1,689**	-325
80%	-101	-457	**85**	**85**	-23	-61	**152**	**575**	**200**	**1,796**	**1,405**	-239
90%	-209	-21	-123	-75	-8	-21	-48	**136**	-150	**2,248**	**1,137**	-65
Long Term												
Full Simulation Period[a]	-707	-805	-448	-132	-170	**157**	**129**	**227**	**244**	**1,018**	**1,052**	-315
Water Year Types[b]												
Wet (31%)	**40**	-123	-26	**364**	-37	-40	**96**	**227**	**11**	**1,407**	**1,477**	-74
Above Normal (25%)	-509	**125**	-1,177	-268	-59	-76	**90**	**402**	**122**	**1,919**	**1,442**	-325
Below Normal (6%)	-200	-489	-641	**21**	**266**	**332**	**329**	**435**	**200**	**25**	**792**	**479**
Dry (13%)	-80	-382	-67	**216**	**295**	**576**	**237**	**99**	**241**	**836**	**907**	-111
Critical (25%)	-1,988	-2,123	-759	-784	-781	**37**	**43**	**219**	**490**	**691**	**724**	-825

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-39-22. Sacramento River at Port Chicago, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	18,324	18,595	18,167	14,600	14,062	11,236	10,711	13,078	16,240	16,711	17,385	18,799
20%	17,894	17,627	17,423	13,776	10,019	9,701	10,352	12,619	14,195	15,013	16,292	18,471
30%	17,547	17,545	15,545	11,625	9,659	7,002	8,423	10,235	12,634	14,644	15,712	18,304
40%	17,406	17,237	14,077	10,476	9,066	4,605	6,264	10,066	12,298	14,405	15,432	17,875
50%	16,920	13,899	13,275	9,210	5,971	3,769	5,178	8,902	11,429	13,370	14,508	17,527
60%	11,828	11,582	13,202	8,075	3,004	2,196	4,299	6,657	10,415	11,190	13,878	17,096
70%	9,531	9,991	12,040	3,445	944	1,052	2,899	6,120	9,618	9,948	13,130	11,896
80%	7,709	8,206	8,840	779	357	446	2,154	4,755	8,394	9,468	13,092	8,715
90%	7,535	5,485	551	465	298	282	622	2,020	6,609	8,268	12,779	8,103
Long Term												
Full Simulation Period[a]	13,821	12,917	11,950	8,105	6,285	4,772	5,772	8,182	11,085	12,514	14,717	14,911
Water Year Types[b]												
Wet (31%)	12,568	8,604	3,905	2,349	528	597	1,759	3,986	6,905	8,411	12,791	8,182
Above Normal (25%)	17,648	17,505	14,986	1,359	466	462	1,756	3,763	8,235	9,359	13,005	11,896
Below Normal (6%)	11,828	11,707	14,077	8,660	3,004	2,196	4,299	6,214	8,394	13,007	15,432	17,875
Dry (13%)	11,080	11,664	13,074	12,318	9,298	5,339	6,578	9,176	11,910	13,509	14,796	17,655
Critical (25%)	15,885	15,777	15,848	11,926	11,463	9,898	10,237	12,904	15,448	16,164	16,737	18,712

Alternative 6A,6B,6C (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	15,484	15,067	12,482	10,452	10,746	8,620	10,246	12,646	15,463	17,613	17,405	16,362
20%	14,229	13,252	11,963	8,234	8,094	6,919	8,761	12,347	14,276	16,448	16,795	15,979
30%	13,194	12,271	10,539	8,058	6,266	5,384	6,916	9,942	12,882	15,833	16,197	15,091
40%	12,734	11,886	9,448	5,539	5,371	3,993	6,170	9,844	12,512	15,219	15,654	14,551
50%	12,434	11,148	8,269	4,839	3,745	3,305	5,100	8,756	11,639	14,785	15,158	14,231
60%	10,581	10,260	7,417	4,500	1,785	1,809	4,076	6,474	10,223	12,428	13,969	13,525
70%	9,051	7,496	7,282	2,417	839	938	2,990	5,697	8,641	11,131	12,609	11,409
80%	7,319	5,415	3,977	458	325	404	2,159	4,614	7,806	10,761	12,478	8,081
90%	7,165	4,079	362	409	293	269	649	2,139	6,131	10,167	11,929	7,741
Long Term												
Full Simulation Period[a]	11,342	9,939	7,934	5,424	4,588	3,924	5,409	7,951	10,804	13,519	14,456	12,938
Water Year Types[b]												
Wet (31%)	9,623	5,440	2,049	1,418	486	550	1,743	3,820	6,546	8,932	11,162	7,773
Above Normal (25%)	14,599	14,096	9,118	792	428	409	1,858	3,711	7,353	10,907	12,387	11,409
Below Normal (6%)	10,524	10,260	10,133	4,622	1,785	1,809	4,076	5,901	7,806	12,428	13,969	13,525
Dry (13%)	10,051	9,502	8,444	7,040	6,202	4,143	5,749	8,979	12,126	15,048	15,678	14,661
Critical (25%)	12,610	12,161	11,319	9,351	8,802	8,277	9,757	12,538	15,133	17,227	17,039	16,188

Alternative 6A,6B,6C (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-2,840	-3,528	-5,685	-4,148	-3,317	-2,616	-465	-431	-777	**902**	**20**	-2,437
20%	-3,665	-4,375	-5,460	-5,542	-1,926	-2,782	-1,591	-272	**81**	**1,435**	**503**	-2,492
30%	-4,353	-5,273	-5,007	-3,567	-3,393	-1,618	-1,507	-294	**248**	**1,188**	**486**	-3,213
40%	-4,671	-5,351	-4,628	-4,936	-3,694	-613	-95	-222	**214**	**814**	**222**	-3,324
50%	-4,486	-2,751	-5,006	-4,371	-2,226	-464	-79	-146	**210**	**1,415**	**651**	-3,296
60%	-1,247	-1,322	-5,786	-3,575	-1,219	-387	-224	-183	-193	**1,238**	**92**	-3,571
70%	-480	-2,495	-4,757	-1,027	-104	-114	**90**	-423	-978	**1,182**	-521	-487
80%	-390	-2,791	-4,863	-322	-32	-43	**5**	-141	-588	**1,293**	-614	-634
90%	-371	-1,406	-189	-56	-6	-13	**26**	**119**	-479	**1,899**	-850	-362
Long Term												
Full Simulation Period[a]	-2,479	-2,978	-4,017	-2,680	-1,697	-848	-362	-231	-281	**1,004**	-261	-1,972
Water Year Types[b]												
Wet (31%)	-2,945	-3,164	-1,856	-931	-42	-47	-16	-166	-359	**521**	-1,629	-409
Above Normal (25%)	-3,049	-3,409	-5,868	-567	-39	-53	**102**	-53	-881	**1,547**	-618	-487
Below Normal (6%)	-1,304	-1,447	-3,943	-4,038	-1,219	-387	-224	-313	-588	-579	-1,463	-4,351
Dry (13%)	-1,029	-2,162	-4,629	-5,278	-3,095	-1,196	-829	-197	**215**	**1,539**	**882**	-2,994
Critical (25%)	-3,275	-3,616	-4,529	-2,576	-2,660	-1,621	-479	-366	-316	**1,062**	**302**	-2,524

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-39-23. Sacramento River at Port Chicago, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	18,324	18,595	18,167	14,600	14,062	11,236	10,711	13,078	16,240	16,711	17,385	18,799
20%	17,894	17,627	17,423	13,776	10,019	9,701	10,352	12,619	14,195	15,013	16,292	18,471
30%	17,547	17,545	15,545	11,625	9,659	7,002	8,423	10,235	12,634	14,644	15,712	18,304
40%	17,406	17,237	14,077	10,476	9,066	4,605	6,264	10,066	12,298	14,405	15,432	17,875
50%	16,920	13,899	13,275	9,210	5,971	3,769	5,178	8,902	11,429	13,370	14,508	17,527
60%	11,828	11,582	13,202	8,075	3,004	2,196	4,299	6,657	10,415	11,190	13,878	17,096
70%	9,531	9,991	12,040	3,445	944	1,052	2,899	6,120	9,618	9,948	13,130	11,896
80%	7,709	8,206	8,840	779	357	446	2,154	4,755	8,394	9,468	13,092	8,715
90%	7,535	5,485	551	465	298	282	622	2,020	6,609	8,268	12,779	8,103
Long Term												
Full Simulation Period[a]	13,821	12,917	11,950	8,105	6,285	4,772	5,772	8,182	11,085	12,514	14,717	14,911
Water Year Types[b]												
Wet (31%)	12,568	8,604	3,905	2,349	528	597	1,759	3,986	6,905	8,411	12,791	8,182
Above Normal (25%)	17,648	17,505	14,986	1,359	466	462	1,756	3,763	8,235	9,359	13,005	11,896
Below Normal (6%)	11,828	11,707	14,077	8,660	3,004	2,196	4,299	6,214	8,394	13,007	15,432	17,875
Dry (13%)	11,080	11,664	13,074	12,318	9,298	5,339	6,578	9,176	11,910	13,509	14,796	17,655
Critical (25%)	15,885	15,777	15,848	11,926	11,463	9,898	10,237	12,904	15,448	16,164	16,737	18,712

Alternative 7 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	16,956	15,056	12,865	10,411	10,647	8,370	9,992	12,118	13,557	16,353	17,349	18,037
20%	16,270	13,434	12,051	8,128	7,999	6,789	8,642	11,642	12,986	15,770	17,193	17,814
30%	15,843	13,204	10,066	7,958	6,248	5,244	6,836	9,998	12,266	15,019	16,589	17,775
40%	15,768	12,800	9,226	5,914	5,216	3,548	5,980	9,884	12,104	14,998	15,766	17,489
50%	14,794	11,460	8,171	4,935	3,591	3,208	4,916	8,642	10,939	13,825	15,270	17,418
60%	10,493	10,322	7,507	4,820	2,055	1,873	3,879	6,396	9,731	12,810	15,016	17,350
70%	8,651	7,508	7,394	2,334	837	957	2,981	5,644	8,069	11,228	14,918	11,646
80%	7,212	5,636	4,120	465	319	406	2,111	4,638	7,099	10,671	14,623	8,510
90%	6,819	4,072	370	399	289	273	638	1,988	5,898	10,432	14,443	8,131
Long Term												
Full Simulation Period[a]	12,472	10,210	7,952	5,436	4,541	3,827	5,305	7,721	9,976	13,202	15,677	14,599
Water Year Types[b]												
Wet (31%)	10,788	5,651	2,111	1,508	486	562	1,735	3,796	6,147	9,700	14,458	8,179
Above Normal (25%)	16,764	14,061	8,710	761	418	408	1,859	3,640	6,689	10,641	14,612	11,646
Below Normal (6%)	10,493	10,607	10,180	4,820	2,055	1,873	3,879	5,744	7,882	12,904	15,766	17,380
Dry (13%)	10,005	9,601	8,444	7,054	6,077	3,955	5,603	8,923	11,720	14,398	15,528	17,836
Critical (25%)	14,471	12,726	11,483	9,277	8,701	8,093	9,587	11,927	13,379	16,130	17,179	17,771

Alternative 7 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,368	-3,539	-5,302	-4,189	-3,416	-2,866	-718	-959	-2,682	-358	-35	-763
20%	-1,624	-4,193	-5,373	-5,648	-2,020	-2,911	-1,710	-977	-1,209	**757**	**901**	-657
30%	-1,705	-4,341	-5,480	-3,667	-3,411	-1,759	-1,587	-238	-368	**374**	**877**	-530
40%	-1,638	-4,437	-4,851	-4,562	-3,850	-1,057	-285	-182	-194	**593**	**334**	-386
50%	-2,126	-2,439	-5,104	-4,275	-2,380	-561	-263	-260	-490	**455**	**762**	-109
60%	-1,335	-1,260	-5,695	-3,255	-949	-323	-420	-261	-684	**1,620**	**1,139**	**254**
70%	-880	-2,483	-4,646	-1,110	-107	-96	**82**	-476	-1,550	**1,280**	**1,788**	-249
80%	-497	-2,570	-4,720	-315	-38	-41	-42	-117	-1,295	**1,203**	**1,531**	-205
90%	-716	-1,413	-181	-66	-9	-9	**16**	-32	-712	**2,163**	**1,665**	**28**
Long Term												
Full Simulation Period[a]	-1,349	-2,707	-3,998	-2,669	-1,744	-945	-466	-461	-1,109	**687**	**960**	-312
Water Year Types[b]												
Wet (31%)	-1,780	-2,953	-1,793	-841	-42	-35	-25	-191	-758	**1,289**	**1,667**	-2
Above Normal (25%)	-884	-3,445	-6,276	-598	-48	-54	**103**	-124	-1,546	**1,282**	**1,608**	-249
Below Normal (6%)	-1,335	-1,100	-3,897	-3,840	-949	-323	-420	-470	-513	-103	**334**	-495
Dry (13%)	-1,075	-2,063	-4,630	-5,264	-3,220	-1,383	-975	-253	-191	**889**	**732**	**181**
Critical (25%)	-1,414	-3,052	-4,364	-2,649	-2,761	-1,804	-650	-977	-2,070	-34	**442**	-941

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-39-24. Sacramento River at Port Chicago, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	18,324	18,595	18,167	14,600	14,062	11,236	10,711	13,078	16,240	16,711	17,385	18,799
20%	17,894	17,627	17,423	13,776	10,019	9,701	10,352	12,619	14,195	15,013	16,292	18,471
30%	17,547	17,545	15,545	11,625	9,659	7,002	8,423	10,235	12,634	14,644	15,712	18,304
40%	17,406	17,237	14,077	10,476	9,066	4,605	6,264	10,066	12,298	14,405	15,432	17,875
50%	16,920	13,899	13,275	9,210	5,971	3,769	5,178	8,902	11,429	13,370	14,508	17,527
60%	11,828	11,582	13,202	8,075	3,004	2,196	4,299	6,657	10,415	11,190	13,878	17,096
70%	9,531	9,991	12,040	3,445	944	1,052	2,899	6,120	9,618	9,948	13,130	11,896
80%	7,709	8,206	8,840	779	357	446	2,154	4,755	8,394	9,468	13,092	8,715
90%	7,535	5,485	551	465	298	282	622	2,020	6,609	8,268	12,779	8,103
Long Term												
Full Simulation Period[a]	13,821	12,917	11,950	8,105	6,285	4,772	5,772	8,182	11,085	12,514	14,717	14,911
Water Year Types[b]												
Wet (31%)	12,568	8,604	3,905	2,349	528	597	1,759	3,986	6,905	8,411	12,791	8,182
Above Normal (25%)	17,648	17,505	14,986	1,359	466	462	1,756	3,763	8,235	9,359	13,005	11,896
Below Normal (6%)	11,828	11,707	14,077	8,660	3,004	2,196	4,299	6,214	8,394	13,007	15,432	17,875
Dry (13%)	11,080	11,664	13,074	12,318	9,298	5,339	6,578	9,176	11,910	13,509	14,796	17,655
Critical (25%)	15,885	15,777	15,848	11,926	11,463	9,898	10,237	12,904	15,448	16,164	16,737	18,712

Alternative 8 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	17,604	15,745	12,871	10,390	10,074	6,496	8,440	11,016	13,088	16,178	17,393	18,488
20%	17,501	14,923	12,609	8,275	7,892	6,012	7,781	9,943	12,004	15,124	17,227	18,214
30%	16,458	13,092	10,419	7,461	5,387	4,677	5,018	9,304	11,806	15,097	16,791	17,864
40%	15,845	12,654	9,361	5,511	4,498	2,485	4,313	7,775	11,399	14,959	16,618	17,787
50%	15,475	11,497	8,256	4,439	3,091	2,220	4,009	7,130	10,429	14,408	16,375	17,776
60%	10,248	10,443	7,599	3,609	1,470	1,556	3,247	5,159	9,260	13,044	16,127	17,658
70%	8,763	7,655	7,510	2,193	851	966	2,351	4,408	7,627	10,924	14,881	11,634
80%	7,239	6,085	4,007	442	318	385	1,820	4,023	6,874	10,665	14,674	8,288
90%	6,980	3,817	364	401	278	273	541	1,634	5,786	10,405	14,277	8,148
Long Term												
Full Simulation Period[a]	12,733	10,419	8,079	5,213	4,219	3,266	4,465	6,751	9,584	13,199	15,950	14,762
Water Year Types[b]												
Wet (31%)	11,117	5,708	2,132	1,190	502	568	1,526	3,220	5,860	9,510	14,303	8,119
Above Normal (25%)	16,583	14,147	9,102	764	389	395	1,491	3,092	6,538	10,650	14,653	11,634
Below Normal (6%)	10,248	10,464	10,162	4,423	1,470	1,556	3,247	4,032	7,380	13,044	16,331	18,214
Dry (13%)	10,496	10,056	8,585	6,726	5,274	2,924	4,196	7,900	11,528	14,763	16,509	18,320
Critical (25%)	14,773	12,978	11,606	9,158	8,430	7,188	8,464	10,665	12,668	15,948	17,263	17,792

Alternative 8 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-719	-2,850	-5,297	-4,210	-3,988	-4,740	-2,271	-2,062	-3,152	-533	**8**	-312
20%	-394	-2,704	-4,814	-5,502	-2,127	-3,689	-2,571	-2,676	-2,191	**111**	**935**	-257
30%	-1,089	-4,453	-5,126	-4,164	-4,273	-2,326	-3,405	-932	-828	**453**	**1,079**	-440
40%	-1,561	-4,584	-4,715	-4,965	-4,568	-2,120	-1,952	-2,291	-899	**554**	**1,186**	-88
50%	-1,445	-2,401	-5,019	-4,771	-2,879	-1,549	-1,170	-1,772	-1,000	**1,037**	**1,867**	**249**
60%	-1,580	-1,139	-5,603	-4,466	-1,534	-640	-1,052	-1,498	-1,156	**1,854**	**2,249**	**563**
70%	-768	-2,337	-4,530	-1,252	-93	-86	-548	-1,711	-1,991	**976**	**1,751**	-261
80%	-470	-2,122	-4,833	-337	-39	-61	-334	-732	-1,520	**1,196**	**1,582**	-428
90%	-555	-1,668	-187	-64	-20	-9	-82	-386	-823	**2,137**	**1,499**	**45**
Long Term												
Full Simulation Period[a]	-1,088	-2,498	-3,871	-2,892	-2,066	-1,506	-1,307	-1,430	-1,501	**684**	**1,233**	-148
Water Year Types[b]												
Wet (31%)	-1,451	-2,897	-1,773	-1,159	-27	-29	-233	-766	-1,045	**1,099**	**1,513**	-63
Above Normal (25%)	-1,065	-3,358	-5,884	-596	-78	-67	-265	-671	-1,696	**1,291**	**1,648**	-261
Below Normal (6%)	-1,580	-1,243	-3,914	-4,237	-1,534	-640	-1,052	-2,182	-1,014	**37**	**899**	**339**
Dry (13%)	-583	-1,608	-4,489	-5,592	-4,023	-2,415	-2,382	-1,277	-382	**1,254**	**1,713**	**665**
Critical (25%)	-1,111	-2,799	-4,242	-2,768	-3,032	-2,710	-1,773	-2,239	-2,780	-216	**526**	-920

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Table C-39-25. Sacramento River at Port Chicago, Monthly EC

No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	18,324	18,595	18,167	14,600	14,062	11,236	10,711	13,078	16,240	16,711	17,385	18,799
20%	17,894	17,627	17,423	13,776	10,019	9,701	10,352	12,619	14,195	15,013	16,292	18,471
30%	17,547	17,545	15,545	11,625	9,659	7,002	8,423	10,235	12,634	14,644	15,712	18,304
40%	17,406	17,237	14,077	10,476	9,066	4,605	6,264	10,066	12,298	14,405	15,432	17,875
50%	16,920	13,899	13,275	9,210	5,971	3,769	5,178	8,902	11,429	13,370	14,508	17,527
60%	11,828	11,582	13,202	8,075	3,004	2,196	4,299	6,657	10,415	11,190	13,878	17,096
70%	9,531	9,991	12,040	3,445	944	1,052	2,899	6,120	9,618	9,948	13,130	11,896
80%	7,709	8,206	8,840	779	357	446	2,154	4,755	8,394	9,468	13,092	8,715
90%	7,535	5,485	551	465	298	282	622	2,020	6,609	8,268	12,779	8,103
Long Term												
Full Simulation Period[a]	13,821	12,917	11,950	8,105	6,285	4,772	5,772	8,182	11,085	12,514	14,717	14,911
Water Year Types[b]												
Wet (31%)	12,568	8,604	3,905	2,349	528	597	1,759	3,986	6,905	8,411	12,791	8,182
Above Normal (25%)	17,648	17,505	14,986	1,359	466	462	1,756	3,763	8,235	9,359	13,005	11,896
Below Normal (6%)	11,828	11,707	14,077	8,660	3,004	2,196	4,299	6,214	8,394	13,007	15,432	17,875
Dry (13%)	11,080	11,664	13,074	12,318	9,298	5,339	6,578	9,176	11,910	13,509	14,796	17,655
Critical (25%)	15,885	15,777	15,848	11,926	11,463	9,898	10,237	12,904	15,448	16,164	16,737	18,712

Alternative 9 (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	19,321	19,932	19,491	17,237	14,857	10,580	10,461	13,092	15,831	16,796	16,957	18,177
20%	18,880	18,972	18,427	13,224	12,468	9,578	8,582	12,505	14,289	16,566	16,208	18,113
30%	18,695	18,779	16,431	12,394	8,959	6,712	7,285	8,635	11,764	15,147	15,891	17,822
40%	18,220	18,674	15,703	9,827	7,659	3,936	6,491	8,381	11,214	14,808	15,761	17,595
50%	17,549	14,916	13,495	8,721	5,543	3,602	5,609	8,139	10,806	14,125	15,400	17,434
60%	11,572	11,166	13,062	7,696	2,145	1,488	4,753	7,407	10,354	13,029	14,728	16,896
70%	9,309	9,451	11,694	3,151	692	757	3,142	6,857	9,038	11,899	14,370	11,974
80%	7,318	7,805	8,411	916	305	354	2,234	5,714	8,805	10,346	14,225	8,605
90%	7,194	5,344	420	383	281	256	539	2,010	6,788	9,787	13,653	8,055
Long Term												
Full Simulation Period[a]	14,176	13,479	12,455	8,480	6,327	4,571	5,637	7,889	10,667	13,405	15,234	14,670
Water Year Types[b]												
Wet (31%)	12,468	8,667	4,185	2,363	429	461	1,921	4,374	6,618	9,516	13,833	8,147
Above Normal (25%)	19,020	19,319	16,431	1,302	370	365	1,819	4,296	8,299	10,762	13,959	11,974
Below Normal (6%)	11,572	11,412	13,676	7,696	2,145	1,488	4,753	7,407	8,805	13,029	15,761	18,125
Dry (13%)	11,229	11,928	13,548	12,088	8,618	4,781	6,004	7,875	11,084	14,636	15,646	17,660
Critical (25%)	16,482	16,648	16,363	13,514	12,432	9,991	10,019	12,246	14,891	16,664	16,430	17,882

Alternative 9 (LLT) minus No Action Alternative (LLT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**997**	**1,338**	**1,324**	**2,637**	**795**	-656	-250	**14**	-409	**85**	-427	-623
20%	**985**	**1,345**	**1,004**	-553	**2,448**	-122	-1,770	-114	**94**	**1,553**	-84	-358
30%	**1,148**	**1,235**	**885**	**769**	-700	-291	-1,138	-1,600	-870	**502**	**179**	-483
40%	**814**	**1,437**	**1,626**	-649	-1,407	-669	**227**	-1,685	-1,084	**403**	**329**	-280
50%	**629**	**1,017**	**220**	-489	-427	-167	**430**	-762	-623	**754**	**892**	-93
60%	-256	-415	-140	-379	-859	-708	**454**	**749**	-62	**1,839**	**850**	-199
70%	-222	-540	-345	-294	-252	-295	**243**	**738**	-580	**1,951**	**1,239**	**79**
80%	-391	-401	-429	**136**	-51	-92	**81**	**959**	**411**	**878**	**1,133**	-110
90%	-341	-141	-132	-82	-17	-26	-84	-10	**179**	**1,519**	**874**	-48
Long Term												
Full Simulation Period[a]	**355**	**562**	**505**	**375**	**42**	-201	-135	-293	-419	**891**	**517**	-241
Water Year Types[b]												
Wet (31%)	-99	**63**	**280**	**14**	-99	-135	**162**	**388**	-286	**1,104**	**1,042**	-35
Above Normal (25%)	**1,372**	**1,814**	**1,445**	-57	-97	-97	**63**	**532**	**65**	**1,403**	**954**	**79**
Below Normal (6%)	-256	-296	-400	-964	-859	-708	**454**	**1,193**	**411**	**22**	**329**	**250**
Dry (13%)	**149**	**264**	**474**	-229	-679	-558	-574	-1,301	-827	**1,126**	**849**	**5**
Critical (25%)	**597**	**871**	**515**	**1,587**	**969**	**93**	-217	-658	-557	**500**	-307	-829

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

Following figures and tables include CALSIM II and DSM2 results for Existing Conditions, No Action Alternative at Early Long-Term and Alternatives 4A, 2D, and 5A at Early Long-Term

C.40. Trinity Storage

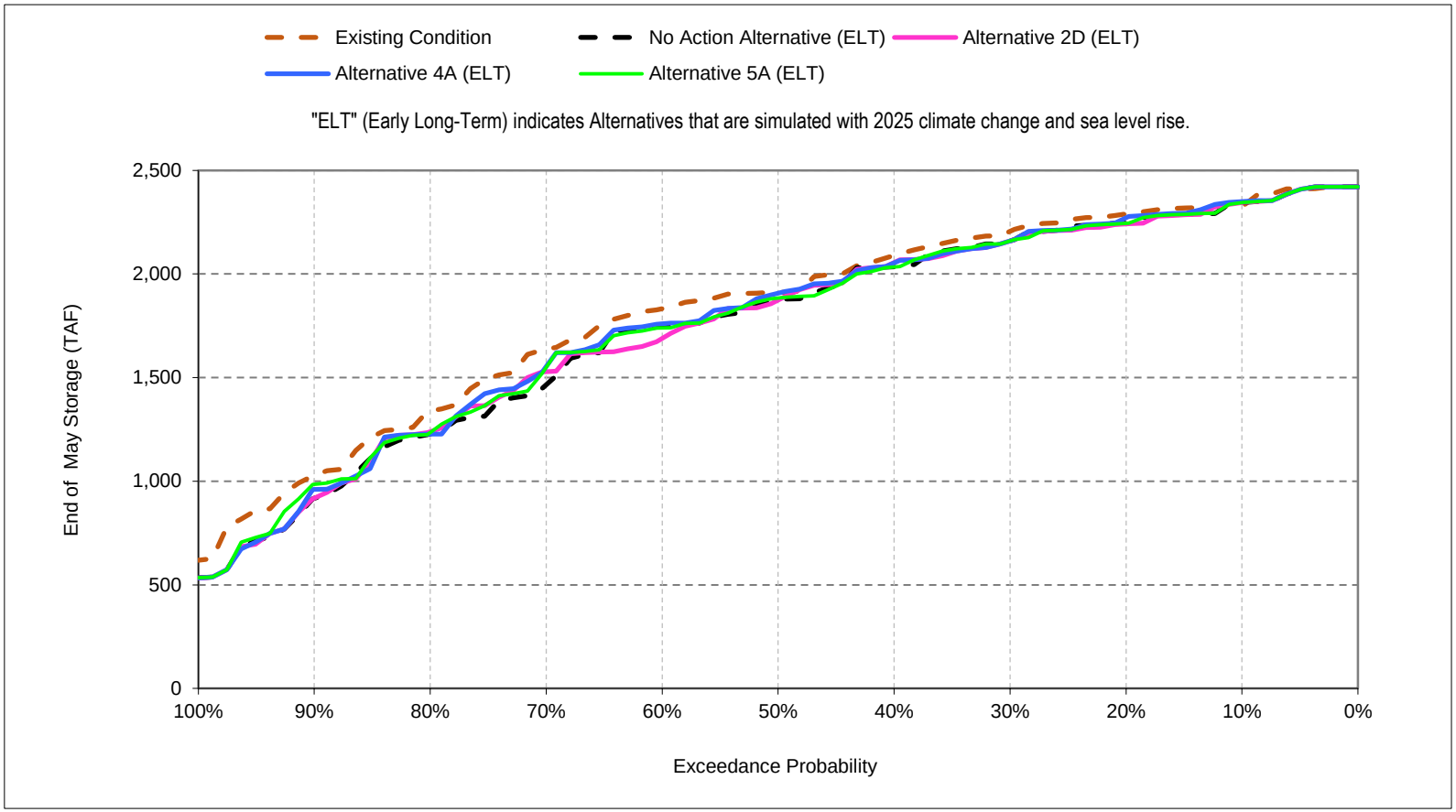


Figure C-40-1. Trinity Lake, End of May Storage

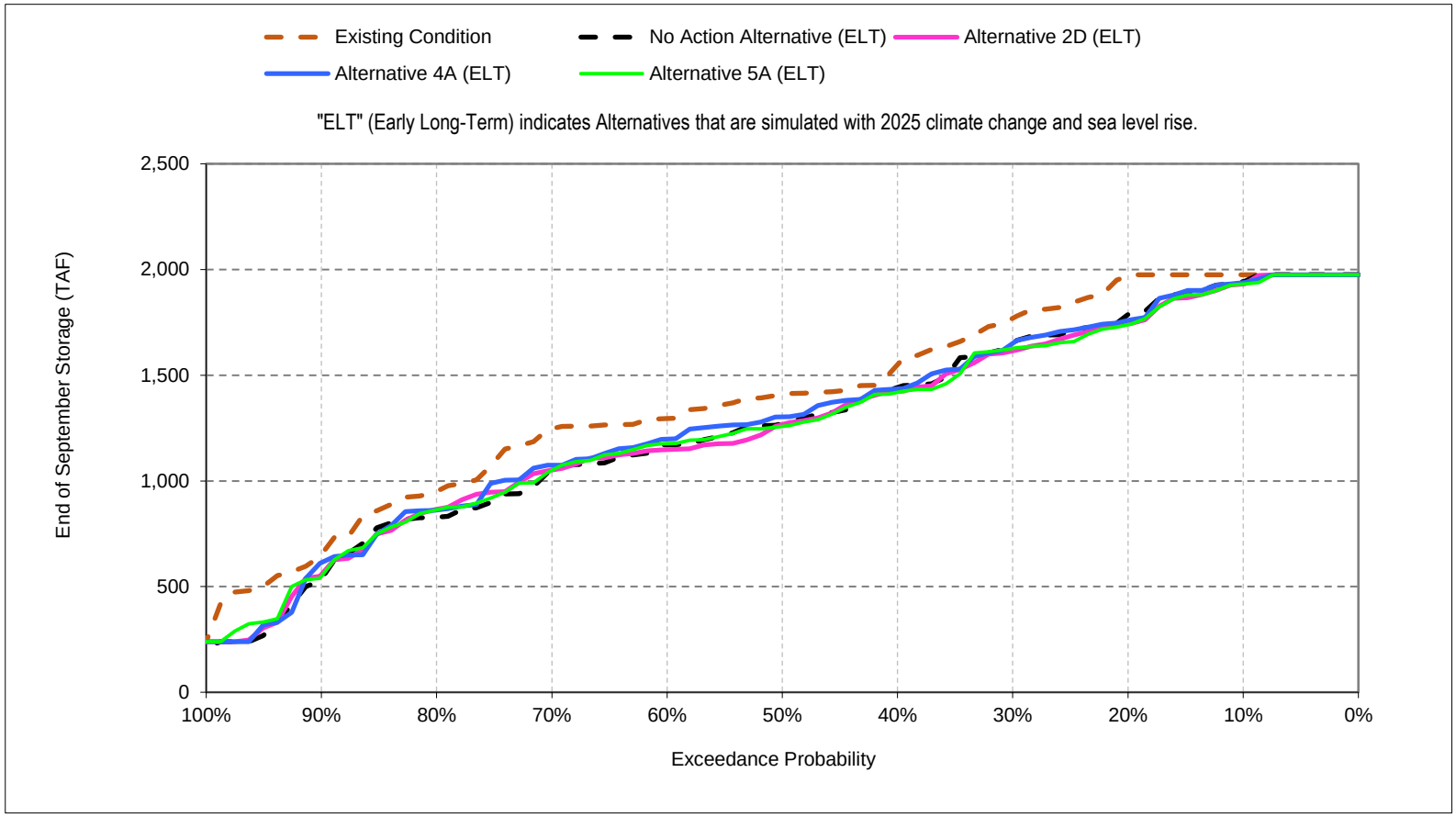


Figure C-40-2. Trinity Lake, End of September Storage

Table C-40-1. Trinity Lake, End of Month Storage

Existing Condition

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,850	1,850	1,850	1,900	2,000	2,100	2,299	2,329	2,366	2,270	2,150	1,975
20%	1,850	1,847	1,850	1,900	2,000	2,100	2,264	2,290	2,270	2,184	2,083	1,970
30%	1,744	1,796	1,846	1,848	1,965	2,098	2,215	2,206	2,143	2,006	1,872	1,770
40%	1,469	1,510	1,668	1,750	1,868	2,006	2,159	2,090	2,017	1,853	1,695	1,551
50%	1,353	1,364	1,440	1,584	1,718	1,834	1,981	1,912	1,840	1,694	1,532	1,408
60%	1,271	1,274	1,314	1,359	1,537	1,699	1,869	1,832	1,773	1,601	1,409	1,295
70%	1,196	1,188	1,234	1,297	1,387	1,500	1,650	1,637	1,611	1,495	1,360	1,247
80%	917	884	969	1,054	1,121	1,233	1,364	1,339	1,271	1,133	1,031	950
90%	641	689	675	674	814	890	1,041	1,028	1,009	820	697	651
Long Term												
Full Simulation Period[a]	1,326	1,336	1,385	1,447	1,557	1,679	1,827	1,822	1,787	1,650	1,513	1,393
Water Year Types[b]												
Wet (32%)	1,527	1,557	1,651	1,758	1,919	2,053	2,230	2,266	2,245	2,116	2,001	1,856
Above Normal (15%)	1,320	1,324	1,399	1,529	1,686	1,854	2,025	2,030	1,999	1,875	1,742	1,617
Below Normal (17%)	1,267	1,274	1,295	1,352	1,427	1,519	1,689	1,674	1,626	1,497	1,365	1,259
Dry (22%)	1,320	1,328	1,347	1,351	1,430	1,563	1,696	1,646	1,590	1,436	1,267	1,152
Critical (15%)	978	955	958	943	985	1,056	1,114	1,090	1,068	917	766	687

No Action Alternative (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,850	1,844	1,850	1,900	2,000	2,100	2,283	2,344	2,306	2,181	2,109	1,943
20%	1,803	1,787	1,798	1,889	2,000	2,100	2,251	2,245	2,182	2,056	1,906	1,787
30%	1,564	1,592	1,664	1,776	1,942	2,066	2,214	2,159	2,072	1,923	1,792	1,653
40%	1,392	1,394	1,580	1,673	1,815	1,969	2,149	2,035	1,916	1,749	1,575	1,443
50%	1,217	1,253	1,371	1,511	1,642	1,795	1,940	1,870	1,731	1,557	1,383	1,271
60%	1,143	1,144	1,221	1,286	1,485	1,681	1,790	1,744	1,657	1,462	1,279	1,171
70%	1,005	1,016	1,075	1,106	1,225	1,371	1,484	1,465	1,390	1,257	1,138	1,050
80%	796	851	874	954	1,057	1,137	1,316	1,228	1,177	1,052	921	828
90%	522	589	589	613	708	907	985	918	860	737	617	536
Long Term												
Full Simulation Period[a]	1,223	1,237	1,301	1,378	1,506	1,633	1,775	1,752	1,681	1,536	1,391	1,273
Water Year Types[b]												
Wet (32%)	1,446	1,485	1,602	1,732	1,919	2,055	2,227	2,248	2,186	2,058	1,932	1,783
Above Normal (15%)	1,241	1,244	1,327	1,487	1,676	1,856	2,022	2,004	1,925	1,785	1,631	1,505
Below Normal (17%)	1,159	1,166	1,196	1,268	1,355	1,458	1,629	1,591	1,516	1,364	1,230	1,139
Dry (22%)	1,193	1,202	1,234	1,249	1,339	1,473	1,600	1,532	1,435	1,266	1,096	985
Critical (15%)	840	829	844	825	868	939	983	943	907	759	609	526

No Action Alternative (ELT) minus Existing Condition

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	-6	0	0	0	0	-16	15	-60	-89	-41	-32
20%	-47	-61	-52	-11	0	0	-13	-44	-88	-128	-177	-183
30%	-180	-203	-182	-72	-23	-32	-2	-47	-71	-83	-80	-117
40%	-77	-116	-87	-76	-53	-36	-10	-55	-101	-104	-121	-108
50%	-136	-110	-69	-73	-76	-39	-41	-42	-109	-137	-149	-137
60%	-128	-130	-93	-73	-52	-18	-79	-88	-115	-139	-130	-125
70%	-190	-172	-159	-191	-162	-130	-167	-172	-221	-238	-222	-197
80%	-120	-33	-96	-100	-64	-96	-48	-111	-94	-82	-110	-122
90%	-119	-100	-87	-60	-107	18	-56	-110	-149	-83	-80	-115
Long Term												
Full Simulation Period[a]	-104	-99	-85	-69	-51	-47	-52	-70	-106	-115	-122	-120
Water Year Types[b]												
Wet (32%)	-81	-73	-50	-27	0	1	-3	-19	-59	-58	-70	-74
Above Normal (15%)	-79	-81	-73	-42	-10	2	-3	-26	-74	-90	-111	-112
Below Normal (17%)	-108	-108	-99	-84	-71	-61	-60	-83	-109	-132	-135	-120
Dry (22%)	-127	-127	-113	-103	-91	-90	-96	-114	-155	-170	-171	-167
Critical (15%)	-138	-126	-113	-118	-117	-117	-131	-147	-161	-158	-156	-161

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-40-2. Trinity Lake, End of Month Storage

Existing Condition

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,850	1,850	1,850	1,900	2,000	2,100	2,299	2,329	2,366	2,270	2,150	1,975
20%	1,850	1,847	1,850	1,900	2,000	2,100	2,264	2,290	2,270	2,184	2,083	1,970
30%	1,744	1,796	1,846	1,848	1,965	2,098	2,215	2,206	2,143	2,006	1,872	1,770
40%	1,469	1,510	1,668	1,750	1,868	2,006	2,159	2,090	2,017	1,853	1,695	1,551
50%	1,353	1,364	1,440	1,584	1,718	1,834	1,981	1,912	1,840	1,694	1,532	1,408
60%	1,271	1,274	1,314	1,359	1,537	1,699	1,869	1,832	1,773	1,601	1,409	1,295
70%	1,196	1,188	1,234	1,297	1,387	1,500	1,650	1,637	1,611	1,495	1,360	1,247
80%	917	884	969	1,054	1,121	1,233	1,364	1,339	1,271	1,133	1,031	950
90%	641	689	675	674	814	890	1,041	1,028	1,009	820	697	651
Long Term												
Full Simulation Period[a]	1,326	1,336	1,385	1,447	1,557	1,679	1,827	1,822	1,787	1,650	1,513	1,393
Water Year Types[b]												
Wet (32%)	1,527	1,557	1,651	1,758	1,919	2,053	2,230	2,266	2,245	2,116	2,001	1,856
Above Normal (15%)	1,320	1,324	1,399	1,529	1,686	1,854	2,025	2,030	1,999	1,875	1,742	1,617
Below Normal (17%)	1,267	1,274	1,295	1,352	1,427	1,519	1,689	1,674	1,626	1,497	1,365	1,259
Dry (22%)	1,320	1,328	1,347	1,351	1,430	1,563	1,696	1,646	1,590	1,436	1,267	1,152
Critical (15%)	978	955	958	943	985	1,056	1,114	1,090	1,068	917	766	687

Alternative 2D (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,849	1,849	1,850	1,900	2,000	2,100	2,271	2,344	2,297	2,180	2,083	1,931
20%	1,762	1,792	1,816	1,896	1,999	2,100	2,249	2,241	2,195	2,044	1,875	1,744
30%	1,526	1,589	1,645	1,776	1,912	2,065	2,218	2,159	2,066	1,906	1,766	1,615
40%	1,352	1,380	1,546	1,654	1,803	1,976	2,116	2,056	1,908	1,733	1,567	1,424
50%	1,212	1,245	1,411	1,561	1,671	1,790	1,967	1,874	1,745	1,561	1,385	1,267
60%	1,120	1,140	1,201	1,267	1,486	1,654	1,754	1,688	1,597	1,407	1,254	1,148
70%	1,017	1,024	1,078	1,127	1,249	1,391	1,582	1,528	1,423	1,274	1,132	1,051
80%	818	850	918	967	1,105	1,192	1,369	1,239	1,214	1,078	958	865
90%	557	599	589	612	696	909	957	919	861	739	619	558
Long Term												
Full Simulation Period[a]	1,217	1,238	1,302	1,382	1,509	1,635	1,777	1,753	1,680	1,528	1,384	1,269
Water Year Types[b]												
Wet (32%)	1,429	1,476	1,597	1,732	1,915	2,049	2,223	2,243	2,182	2,042	1,914	1,771
Above Normal (15%)	1,240	1,260	1,347	1,499	1,685	1,864	2,032	2,014	1,925	1,770	1,611	1,481
Below Normal (17%)	1,170	1,182	1,212	1,285	1,373	1,477	1,643	1,606	1,527	1,378	1,236	1,136
Dry (22%)	1,184	1,195	1,221	1,237	1,329	1,462	1,588	1,519	1,420	1,245	1,086	983
Critical (15%)	840	828	843	838	881	953	997	956	917	769	629	551

Alternative 2D (ELT) minus Existing Condition

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1	-1	0	0	0	0	-28	15	-70	-90	-67	-44
20%	-88	-55	-34	-4	-1	0	-15	-48	-75	-140	-208	-226
30%	-218	-207	-202	-73	-53	-33	2	-47	-77	-100	-106	-155
40%	-118	-130	-121	-96	-65	-30	-44	-34	-109	-120	-128	-126
50%	-140	-118	-30	-23	-47	-44	-14	-37	-95	-133	-147	-141
60%	-151	-134	-112	-93	-52	-45	-115	-144	-176	-195	-154	-148
70%	-179	-164	-157	-170	-138	-109	-68	-109	-188	-220	-227	-195
80%	-98	-34	-52	-87	-16	-41	6	-100	-57	-55	-73	-85
90%	-83	-90	-86	-62	-119	19	-83	-109	-148	-82	-79	-93
Long Term												
Full Simulation Period[a]	-109	-99	-83	-65	-48	-44	-50	-69	-107	-123	-129	-125
Water Year Types[b]												
Wet (32%)	-98	-81	-54	-27	-4	-5	-8	-23	-63	-74	-88	-86
Above Normal (15%)	-80	-64	-53	-29	0	10	7	-16	-74	-105	-132	-137
Below Normal (17%)	-98	-92	-83	-67	-54	-42	-46	-68	-98	-119	-129	-122
Dry (22%)	-136	-133	-127	-114	-102	-101	-108	-127	-170	-190	-181	-168
Critical (15%)	-137	-127	-114	-105	-103	-103	-117	-134	-151	-148	-137	-136

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-40-3. Trinity Lake, End of Month Storage

Existing Condition

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,850	1,850	1,850	1,900	2,000	2,100	2,299	2,329	2,366	2,270	2,150	1,975
20%	1,850	1,847	1,850	1,900	2,000	2,100	2,264	2,290	2,270	2,184	2,083	1,970
30%	1,744	1,796	1,846	1,848	1,965	2,098	2,215	2,206	2,143	2,006	1,872	1,770
40%	1,469	1,510	1,668	1,750	1,868	2,006	2,159	2,090	2,017	1,853	1,695	1,551
50%	1,353	1,364	1,440	1,584	1,718	1,834	1,981	1,912	1,840	1,694	1,532	1,408
60%	1,271	1,274	1,314	1,359	1,537	1,699	1,869	1,832	1,773	1,601	1,409	1,295
70%	1,196	1,188	1,234	1,297	1,387	1,500	1,650	1,637	1,611	1,495	1,360	1,247
80%	917	884	969	1,054	1,121	1,233	1,364	1,339	1,271	1,133	1,031	950
90%	641	689	675	674	814	890	1,041	1,028	1,009	820	697	651
Long Term												
Full Simulation Period[a]	1,326	1,336	1,385	1,447	1,557	1,679	1,827	1,822	1,787	1,650	1,513	1,393
Water Year Types[b]												
Wet (32%)	1,527	1,557	1,651	1,758	1,919	2,053	2,230	2,266	2,245	2,116	2,001	1,856
Above Normal (15%)	1,320	1,324	1,399	1,529	1,686	1,854	2,025	2,030	1,999	1,875	1,742	1,617
Below Normal (17%)	1,267	1,274	1,295	1,352	1,427	1,519	1,689	1,674	1,626	1,497	1,365	1,259
Dry (22%)	1,320	1,328	1,347	1,351	1,430	1,563	1,696	1,646	1,590	1,436	1,267	1,152
Critical (15%)	978	955	958	943	985	1,056	1,114	1,090	1,068	917	766	687

Alternative 4A (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,850	1,845	1,850	1,900	2,000	2,100	2,298	2,350	2,306	2,194	2,095	1,937
20%	1,798	1,795	1,827	1,900	2,000	2,100	2,250	2,271	2,206	2,064	1,885	1,759
30%	1,562	1,596	1,716	1,780	1,944	2,078	2,219	2,159	2,073	1,923	1,792	1,651
40%	1,395	1,409	1,583	1,687	1,817	1,992	2,138	2,054	1,910	1,730	1,566	1,436
50%	1,247	1,296	1,402	1,554	1,691	1,830	1,971	1,907	1,791	1,587	1,421	1,303
60%	1,159	1,179	1,259	1,303	1,512	1,708	1,819	1,759	1,665	1,446	1,286	1,197
70%	1,040	1,038	1,114	1,153	1,259	1,414	1,557	1,553	1,440	1,321	1,147	1,074
80%	829	825	930	992	1,133	1,184	1,315	1,227	1,223	1,069	947	862
90%	613	614	604	640	675	909	973	960	901	779	660	613
Long Term												
Full Simulation Period[a]	1,238	1,254	1,321	1,398	1,523	1,649	1,790	1,767	1,696	1,547	1,405	1,289
Water Year Types[b]												
Wet (32%)	1,455	1,494	1,618	1,750	1,929	2,060	2,231	2,251	2,189	2,061	1,930	1,780
Above Normal (15%)	1,256	1,268	1,353	1,505	1,690	1,873	2,040	2,022	1,943	1,794	1,643	1,518
Below Normal (17%)	1,179	1,191	1,221	1,289	1,377	1,479	1,645	1,608	1,527	1,378	1,245	1,150
Dry (22%)	1,220	1,232	1,265	1,280	1,369	1,503	1,629	1,563	1,468	1,287	1,126	1,026
Critical (15%)	842	828	843	836	879	950	997	955	917	776	635	553

Alternative 4A (ELT) minus Existing Condition

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	-5	0	0	0	0	-1	20	-60	-76	-55	-38
20%	-52	-52	-23	0	0	0	-15	-18	-64	-120	-198	-211
30%	-182	-200	-130	-68	-22	-20	4	-47	-70	-83	-80	-119
40%	-74	-101	-85	-62	-51	-13	-21	-36	-106	-124	-129	-115
50%	-106	-67	-38	-30	-27	-4	-10	-5	-49	-107	-111	-105
60%	-112	-95	-54	-56	-25	9	-50	-73	-107	-155	-123	-98
70%	-156	-149	-120	-144	-128	-87	-93	-84	-171	-174	-212	-173
80%	-88	-60	-39	-62	13	-49	-48	-112	-48	-65	-84	-88
90%	-28	-75	-71	-34	-140	19	-67	-67	-108	-42	-38	-38
Long Term												
Full Simulation Period[a]	-89	-82	-65	-48	-33	-31	-37	-55	-91	-103	-108	-104
Water Year Types[b]												
Wet (32%)	-72	-63	-33	-9	10	7	0	-15	-55	-56	-72	-76
Above Normal (15%)	-64	-57	-46	-24	4	19	15	-8	-56	-81	-99	-99
Below Normal (17%)	-88	-83	-75	-63	-50	-40	-44	-66	-99	-118	-119	-109
Dry (22%)	-100	-96	-82	-72	-61	-60	-67	-83	-122	-149	-141	-126
Critical (15%)	-136	-127	-115	-107	-106	-106	-118	-135	-150	-141	-131	-134

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-40-4. Trinity Lake, End of Month Storage

Existing Condition

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,850	1,850	1,850	1,900	2,000	2,100	2,299	2,329	2,366	2,270	2,150	1,975
20%	1,850	1,847	1,850	1,900	2,000	2,100	2,264	2,290	2,270	2,184	2,083	1,970
30%	1,744	1,796	1,846	1,848	1,965	2,098	2,215	2,206	2,143	2,006	1,872	1,770
40%	1,469	1,510	1,668	1,750	1,868	2,006	2,159	2,090	2,017	1,853	1,695	1,551
50%	1,353	1,364	1,440	1,584	1,718	1,834	1,981	1,912	1,840	1,694	1,532	1,408
60%	1,271	1,274	1,314	1,359	1,537	1,699	1,869	1,832	1,773	1,601	1,409	1,295
70%	1,196	1,188	1,234	1,297	1,387	1,500	1,650	1,637	1,611	1,495	1,360	1,247
80%	917	884	969	1,054	1,121	1,233	1,364	1,339	1,271	1,133	1,031	950
90%	641	689	675	674	814	890	1,041	1,028	1,009	820	697	651
Long Term												
Full Simulation Period[a]	1,326	1,336	1,385	1,447	1,557	1,679	1,827	1,822	1,787	1,650	1,513	1,393
Water Year Types[b]												
Wet (32%)	1,527	1,557	1,651	1,758	1,919	2,053	2,230	2,266	2,245	2,116	2,001	1,856
Above Normal (15%)	1,320	1,324	1,399	1,529	1,686	1,854	2,025	2,030	1,999	1,875	1,742	1,617
Below Normal (17%)	1,267	1,274	1,295	1,352	1,427	1,519	1,689	1,674	1,626	1,497	1,365	1,259
Dry (22%)	1,320	1,328	1,347	1,351	1,430	1,563	1,696	1,646	1,590	1,436	1,267	1,152
Critical (15%)	978	955	958	943	985	1,056	1,114	1,090	1,068	917	766	687

Alternative 5A (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,849	1,848	1,850	1,900	2,000	2,100	2,282	2,344	2,306	2,194	2,099	1,931
20%	1,754	1,783	1,803	1,899	1,995	2,100	2,251	2,245	2,200	2,046	1,866	1,738
30%	1,540	1,569	1,671	1,773	1,919	2,066	2,210	2,159	2,066	1,916	1,771	1,627
40%	1,370	1,404	1,548	1,663	1,809	1,981	2,134	2,034	1,904	1,740	1,560	1,419
50%	1,197	1,240	1,365	1,515	1,644	1,784	1,969	1,884	1,744	1,556	1,372	1,258
60%	1,144	1,157	1,229	1,288	1,513	1,671	1,796	1,739	1,640	1,464	1,282	1,177
70%	1,046	1,038	1,084	1,123	1,235	1,391	1,554	1,549	1,438	1,315	1,134	1,050
80%	828	834	898	969	1,067	1,163	1,330	1,234	1,205	1,058	945	863
90%	534	587	592	617	704	909	1,004	984	926	763	619	549
Long Term												
Full Simulation Period[a]	1,221	1,239	1,306	1,387	1,514	1,641	1,784	1,761	1,687	1,540	1,394	1,272
Water Year Types[b]												
Wet (32%)	1,433	1,475	1,601	1,735	1,918	2,053	2,226	2,247	2,186	2,059	1,929	1,771
Above Normal (15%)	1,228	1,237	1,322	1,476	1,661	1,848	2,016	1,998	1,909	1,760	1,601	1,470
Below Normal (17%)	1,159	1,172	1,203	1,274	1,361	1,464	1,632	1,596	1,516	1,364	1,226	1,127
Dry (22%)	1,198	1,210	1,244	1,268	1,358	1,490	1,617	1,550	1,449	1,278	1,102	997
Critical (15%)	862	849	865	858	901	972	1,020	979	944	793	660	571

Alternative 5A (ELT) minus Existing Condition

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1	-2	0	0	0	0	-17	15	-60	-76	-51	-44
20%	-96	-64	-47	-1	-5	0	-13	-45	-70	-138	-217	-232
30%	-204	-226	-175	-76	-46	-32	-5	-47	-77	-90	-101	-143
40%	-99	-106	-120	-87	-59	-25	-25	-56	-112	-113	-135	-131
50%	-156	-123	-75	-69	-74	-50	-12	-28	-96	-137	-160	-150
60%	-127	-118	-85	-71	-24	-29	-73	-93	-133	-137	-127	-118
70%	-149	-150	-151	-174	-152	-109	-96	-88	-173	-179	-225	-197
80%	-89	-51	-72	-85	-54	-70	-33	-105	-66	-76	-86	-87
90%	-106	-102	-83	-57	-110	19	-37	-43	-83	-58	-79	-102
Long Term												
Full Simulation Period[a]	-105	-97	-79	-59	-43	-39	-43	-61	-100	-110	-119	-122
Water Year Types[b]												
Wet (32%)	-94	-82	-50	-24	-1	0	-4	-19	-59	-58	-72	-85
Above Normal (15%)	-92	-88	-78	-53	-25	-6	-9	-32	-90	-115	-142	-147
Below Normal (17%)	-108	-102	-93	-79	-66	-55	-57	-78	-110	-132	-139	-132
Dry (22%)	-121	-118	-103	-84	-72	-72	-79	-95	-141	-158	-165	-155
Critical (15%)	-116	-106	-92	-85	-83	-83	-94	-111	-124	-123	-105	-115

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-40-5. Trinity Lake, End of Month Storage

No Action Alternative (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,850	1,844	1,850	1,900	2,000	2,100	2,283	2,344	2,306	2,181	2,109	1,943
20%	1,803	1,787	1,798	1,889	2,000	2,100	2,251	2,245	2,182	2,056	1,906	1,787
30%	1,564	1,592	1,664	1,776	1,942	2,066	2,214	2,159	2,072	1,923	1,792	1,653
40%	1,392	1,394	1,580	1,673	1,815	1,969	2,149	2,035	1,916	1,749	1,575	1,443
50%	1,217	1,253	1,371	1,511	1,642	1,795	1,940	1,870	1,731	1,557	1,383	1,271
60%	1,143	1,144	1,221	1,286	1,485	1,681	1,790	1,744	1,657	1,462	1,279	1,171
70%	1,005	1,016	1,075	1,106	1,225	1,371	1,484	1,465	1,390	1,257	1,138	1,050
80%	796	851	874	954	1,057	1,137	1,316	1,228	1,177	1,052	921	828
90%	522	589	589	613	708	907	985	918	860	737	617	536
Long Term												
Full Simulation Period[a]	1,223	1,237	1,301	1,378	1,506	1,633	1,775	1,752	1,681	1,536	1,391	1,273
Water Year Types[b]												
Wet (32%)	1,446	1,485	1,602	1,732	1,919	2,055	2,227	2,248	2,186	2,058	1,932	1,783
Above Normal (15%)	1,241	1,244	1,327	1,487	1,676	1,856	2,022	2,004	1,925	1,785	1,631	1,505
Below Normal (17%)	1,159	1,166	1,196	1,268	1,355	1,458	1,629	1,591	1,516	1,364	1,230	1,139
Dry (22%)	1,193	1,202	1,234	1,249	1,339	1,473	1,600	1,532	1,435	1,266	1,096	985
Critical (15%)	840	829	844	825	868	939	983	943	907	759	609	526

Alternative 2D (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,849	1,849	1,850	1,900	2,000	2,100	2,271	2,344	2,297	2,180	2,083	1,931
20%	1,762	1,792	1,816	1,896	1,999	2,100	2,249	2,241	2,195	2,044	1,875	1,744
30%	1,526	1,589	1,645	1,776	1,912	2,065	2,218	2,159	2,066	1,906	1,766	1,615
40%	1,352	1,380	1,546	1,654	1,803	1,976	2,116	2,056	1,908	1,733	1,567	1,424
50%	1,212	1,245	1,411	1,561	1,671	1,790	1,967	1,874	1,745	1,561	1,385	1,267
60%	1,120	1,140	1,201	1,267	1,486	1,654	1,754	1,688	1,597	1,407	1,254	1,148
70%	1,017	1,024	1,078	1,127	1,249	1,391	1,582	1,528	1,423	1,274	1,132	1,051
80%	818	850	918	967	1,105	1,192	1,369	1,239	1,214	1,078	958	865
90%	557	599	589	612	696	909	957	919	861	739	619	558
Long Term												
Full Simulation Period[a]	1,217	1,238	1,302	1,382	1,509	1,635	1,777	1,753	1,680	1,528	1,384	1,269
Water Year Types[b]												
Wet (32%)	1,429	1,476	1,597	1,732	1,915	2,049	2,223	2,243	2,182	2,042	1,914	1,771
Above Normal (15%)	1,240	1,260	1,347	1,499	1,685	1,864	2,032	2,014	1,925	1,770	1,611	1,481
Below Normal (17%)	1,170	1,182	1,212	1,285	1,373	1,477	1,643	1,606	1,527	1,378	1,236	1,136
Dry (22%)	1,184	1,195	1,221	1,237	1,329	1,462	1,588	1,519	1,420	1,245	1,086	983
Critical (15%)	840	828	843	838	881	953	997	956	917	769	629	551

Alternative 2D (ELT) minus No Action Alternative (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1	5	0	0	0	0	-11	0	-9	-1	-25	-12
20%	-41	6	18	7	-1	0	-1	-4	12	-12	-31	-43
30%	-38	-4	-19	0	-30	0	4	0	-6	-17	-26	-38
40%	-40	-14	-34	-19	-11	7	-33	21	-8	-16	-8	-18
50%	-4	-8	40	50	29	-5	27	4	14	4	2	-4
60%	-23	-4	-19	-20	0	-27	-35	-56	-61	-56	-24	-23
70%	12	8	2	21	24	20	99	63	33	17	-5	2
80%	22	-1	44	13	48	55	53	11	37	26	36	37
90%	35	10	0	-1	-12	1	-27	1	1	1	1	22
Long Term												
Full Simulation Period[a]	-6	1	1	4	3	2	2	2	-1	-8	-7	-5
Water Year Types[b]												
Wet (32%)	-17	-9	-4	0	-4	-6	-5	-5	-4	-16	-18	-12
Above Normal (15%)	-1	16	20	12	9	8	10	10	0	-15	-20	-25
Below Normal (17%)	11	16	17	17	18	19	14	14	11	13	6	-3
Dry (22%)	-9	-7	-14	-12	-11	-11	-12	-13	-15	-21	-10	-2
Critical (15%)	1	-1	-1	13	13	14	14	14	10	10	19	25

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-40-6. Trinity Lake, End of Month Storage

No Action Alternative (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,850	1,844	1,850	1,900	2,000	2,100	2,283	2,344	2,306	2,181	2,109	1,943
20%	1,803	1,787	1,798	1,889	2,000	2,100	2,251	2,245	2,182	2,056	1,906	1,787
30%	1,564	1,592	1,664	1,776	1,942	2,066	2,214	2,159	2,072	1,923	1,792	1,653
40%	1,392	1,394	1,580	1,673	1,815	1,969	2,149	2,035	1,916	1,749	1,575	1,443
50%	1,217	1,253	1,371	1,511	1,642	1,795	1,940	1,870	1,731	1,557	1,383	1,271
60%	1,143	1,144	1,221	1,286	1,485	1,681	1,790	1,744	1,657	1,462	1,279	1,171
70%	1,005	1,016	1,075	1,106	1,225	1,371	1,484	1,465	1,390	1,257	1,138	1,050
80%	796	851	874	954	1,057	1,137	1,316	1,228	1,177	1,052	921	828
90%	522	589	589	613	708	907	985	918	860	737	617	536
Long Term												
Full Simulation Period[a]	1,223	1,237	1,301	1,378	1,506	1,633	1,775	1,752	1,681	1,536	1,391	1,273
Water Year Types[b]												
Wet (32%)	1,446	1,485	1,602	1,732	1,919	2,055	2,227	2,248	2,186	2,058	1,932	1,783
Above Normal (15%)	1,241	1,244	1,327	1,487	1,676	1,856	2,022	2,004	1,925	1,785	1,631	1,505
Below Normal (17%)	1,159	1,166	1,196	1,268	1,355	1,458	1,629	1,591	1,516	1,364	1,230	1,139
Dry (22%)	1,193	1,202	1,234	1,249	1,339	1,473	1,600	1,532	1,435	1,266	1,096	985
Critical (15%)	840	829	844	825	868	939	983	943	907	759	609	526

Alternative 4A (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,850	1,845	1,850	1,900	2,000	2,100	2,298	2,350	2,306	2,194	2,095	1,937
20%	1,798	1,795	1,827	1,900	2,000	2,100	2,250	2,271	2,206	2,064	1,885	1,759
30%	1,562	1,596	1,716	1,780	1,944	2,078	2,219	2,159	2,073	1,923	1,792	1,651
40%	1,395	1,409	1,583	1,687	1,817	1,992	2,138	2,054	1,910	1,730	1,566	1,436
50%	1,247	1,296	1,402	1,554	1,691	1,830	1,971	1,907	1,791	1,587	1,421	1,303
60%	1,159	1,179	1,259	1,303	1,512	1,708	1,819	1,759	1,665	1,446	1,286	1,197
70%	1,040	1,038	1,114	1,153	1,259	1,414	1,557	1,553	1,440	1,321	1,147	1,074
80%	829	825	930	992	1,133	1,184	1,315	1,227	1,223	1,069	947	862
90%	613	614	604	640	675	909	973	960	901	779	660	613
Long Term												
Full Simulation Period[a]	1,238	1,254	1,321	1,398	1,523	1,649	1,790	1,767	1,696	1,547	1,405	1,289
Water Year Types[b]												
Wet (32%)	1,455	1,494	1,618	1,750	1,929	2,060	2,231	2,251	2,189	2,061	1,930	1,780
Above Normal (15%)	1,256	1,268	1,353	1,505	1,690	1,873	2,040	2,022	1,943	1,794	1,643	1,518
Below Normal (17%)	1,179	1,191	1,221	1,289	1,377	1,479	1,645	1,608	1,527	1,378	1,245	1,150
Dry (22%)	1,220	1,232	1,265	1,280	1,369	1,503	1,629	1,563	1,468	1,287	1,126	1,026
Critical (15%)	842	828	843	836	879	950	997	955	917	776	635	553

Alternative 4A (ELT) minus No Action Alternative (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	1	0	0	0	0	16	6	0	13	**-13**	**-6**
20%	**-6**	9	29	11	0	0	**-1**	26	24	8	**-21**	**-28**
30%	**-1**	4	52	4	2	12	5	0	1	0	0	**-1**
40%	3	15	2	14	2	23	**-10**	19	**-6**	**-19**	**-9**	**-7**
50%	30	43	31	43	49	35	31	37	59	30	38	32
60%	16	34	38	16	27	26	29	15	8	**-16**	7	27
70%	35	23	39	47	34	43	74	88	50	64	10	24
80%	33	**-26**	57	38	76	47	**0**	**0**	46	17	25	34
90%	91	25	15	26	**-33**	1	**-11**	43	41	41	43	77
Long Term												
Full Simulation Period[a]	15	17	20	20	17	16	15	15	14	12	14	16
Water Year Types[b]												
Wet (32%)	9	10	17	18	10	5	3	3	3	3	**-2**	**-2**
Above Normal (15%)	15	24	26	18	14	17	18	18	18	9	13	13
Below Normal (17%)	21	25	25	21	22	21	16	16	11	14	15	11
Dry (22%)	27	31	31	31	30	30	29	31	34	21	30	41
Critical (15%)	2	**-2**	**-1**	11	11	11	13	12	11	17	26	27

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-40-7. Trinity Lake, End of Month Storage

No Action Alternative (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,850	1,844	1,850	1,900	2,000	2,100	2,283	2,344	2,306	2,181	2,109	1,943
20%	1,803	1,787	1,798	1,889	2,000	2,100	2,251	2,245	2,182	2,056	1,906	1,787
30%	1,564	1,592	1,664	1,776	1,942	2,066	2,214	2,159	2,072	1,923	1,792	1,653
40%	1,392	1,394	1,580	1,673	1,815	1,969	2,149	2,035	1,916	1,749	1,575	1,443
50%	1,217	1,253	1,371	1,511	1,642	1,795	1,940	1,870	1,731	1,557	1,383	1,271
60%	1,143	1,144	1,221	1,286	1,485	1,681	1,790	1,744	1,657	1,462	1,279	1,171
70%	1,005	1,016	1,075	1,106	1,225	1,371	1,484	1,465	1,390	1,257	1,138	1,050
80%	796	851	874	954	1,057	1,137	1,316	1,228	1,177	1,052	921	828
90%	522	589	589	613	708	907	985	918	860	737	617	536
Long Term												
Full Simulation Period[a]	1,223	1,237	1,301	1,378	1,506	1,633	1,775	1,752	1,681	1,536	1,391	1,273
Water Year Types[b]												
Wet (32%)	1,446	1,485	1,602	1,732	1,919	2,055	2,227	2,248	2,186	2,058	1,932	1,783
Above Normal (15%)	1,241	1,244	1,327	1,487	1,676	1,856	2,022	2,004	1,925	1,785	1,631	1,505
Below Normal (17%)	1,159	1,166	1,196	1,268	1,355	1,458	1,629	1,591	1,516	1,364	1,230	1,139
Dry (22%)	1,193	1,202	1,234	1,249	1,339	1,473	1,600	1,532	1,435	1,266	1,096	985
Critical (15%)	840	829	844	825	868	939	983	943	907	759	609	526

Alternative 5A (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,849	1,848	1,850	1,900	2,000	2,100	2,282	2,344	2,306	2,194	2,099	1,931
20%	1,754	1,783	1,803	1,899	1,995	2,100	2,251	2,245	2,200	2,046	1,866	1,738
30%	1,540	1,569	1,671	1,773	1,919	2,066	2,210	2,159	2,066	1,916	1,771	1,627
40%	1,370	1,404	1,548	1,663	1,809	1,981	2,134	2,034	1,904	1,740	1,560	1,419
50%	1,197	1,240	1,365	1,515	1,644	1,784	1,969	1,884	1,744	1,556	1,372	1,258
60%	1,144	1,157	1,229	1,288	1,513	1,671	1,796	1,739	1,640	1,464	1,282	1,177
70%	1,046	1,038	1,084	1,123	1,235	1,391	1,554	1,549	1,438	1,315	1,134	1,050
80%	828	834	898	969	1,067	1,163	1,330	1,234	1,205	1,058	945	863
90%	534	587	592	617	704	909	1,004	984	926	763	619	549
Long Term												
Full Simulation Period[a]	1,221	1,239	1,306	1,387	1,514	1,641	1,784	1,761	1,687	1,540	1,394	1,272
Water Year Types[b]												
Wet (32%)	1,433	1,475	1,601	1,735	1,918	2,053	2,226	2,247	2,186	2,059	1,929	1,771
Above Normal (15%)	1,228	1,237	1,322	1,476	1,661	1,848	2,016	1,998	1,909	1,760	1,601	1,470
Below Normal (17%)	1,159	1,172	1,203	1,274	1,361	1,464	1,632	1,596	1,516	1,364	1,226	1,127
Dry (22%)	1,198	1,210	1,244	1,268	1,358	1,490	1,617	1,550	1,449	1,278	1,102	997
Critical (15%)	862	849	865	858	901	972	1,020	979	944	793	660	571

Alternative 5A (ELT) minus No Action Alternative (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1	5	0	0	0	0	0	0	0	13	-9	-12
20%	-49	-4	5	10	-5	0	0	-1	18	-10	-40	-49
30%	-24	-23	7	-3	-23	0	-4	0	-6	-7	-21	-26
40%	-22	10	-32	-10	-5	11	-15	-1	-12	-9	-14	-23
50%	-20	-13	-5	4	2	-11	29	14	12	-1	-11	-13
60%	2	12	8	2	28	-11	6	-5	-18	1	3	6
70%	41	22	8	17	10	21	71	84	48	58	-3	1
80%	31	-17	24	15	10	26	14	7	28	6	24	35
90%	13	-2	4	4	-3	1	19	67	66	25	1	13
Long Term												
Full Simulation Period[a]	-1	2	6	9	7	8	8	9	6	4	3	-2
Water Year Types[b]												
Wet (32%)	-13	-9	-1	3	-1	-2	-1	-1	0	1	-2	-11
Above Normal (15%)	-13	-7	-5	-11	-15	-8	-7	-7	-16	-25	-30	-35
Below Normal (17%)	1	6	7	5	6	6	3	5	-1	0	-4	-12
Dry (22%)	5	9	10	19	19	18	17	19	14	12	6	12
Critical (15%)	22	20	21	33	33	33	37	37	37	34	51	46

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

C.41. Shasta Storage

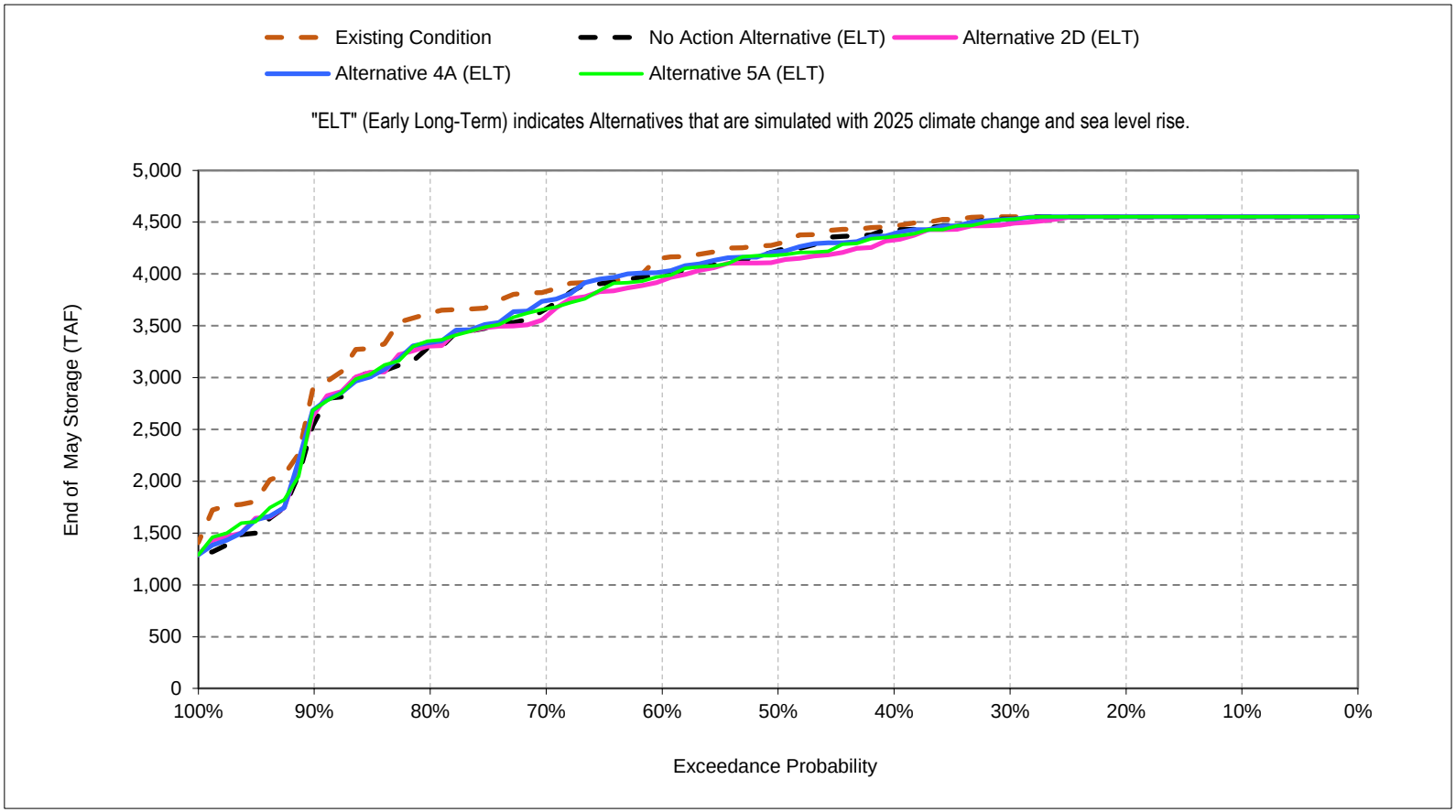


Figure C-41-1. Shasta Lake, End of May Storage

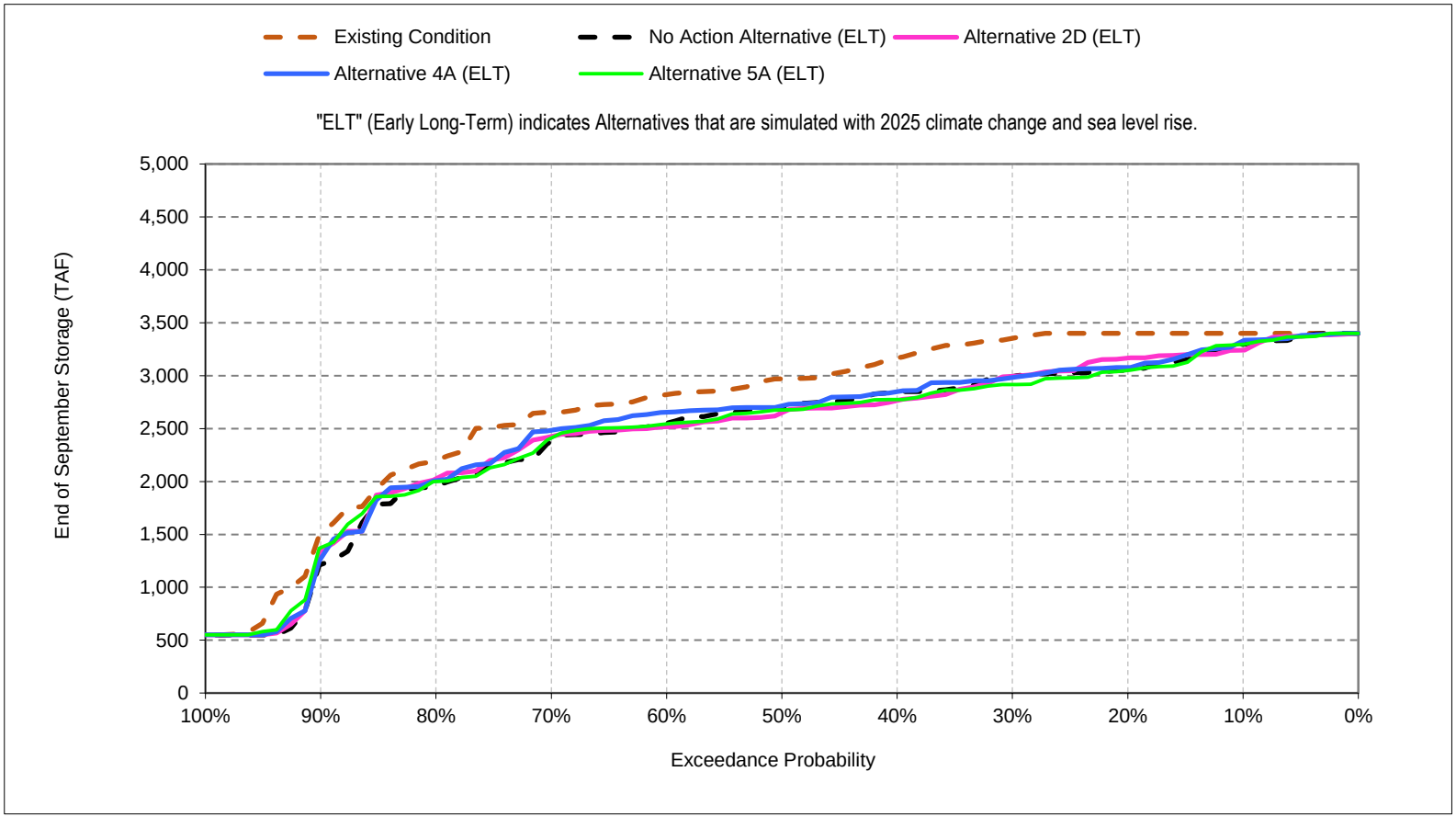


Figure C-41-2. Shasta Lake, End of September Storage

Table C-41-1. Shasta Lake, End of Month Storage

Existing Condition

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,250	3,252	3,347	3,638	3,919	4,226	4,521	4,552	4,479	4,081	3,700	3,400
20%	3,250	3,250	3,327	3,552	3,803	4,123	4,456	4,552	4,353	3,960	3,664	3,400
30%	3,213	3,215	3,309	3,520	3,684	4,039	4,369	4,552	4,239	3,718	3,372	3,353
40%	3,146	3,153	3,276	3,401	3,635	3,992	4,295	4,463	4,052	3,532	3,213	3,167
50%	2,871	2,980	3,243	3,287	3,533	3,903	4,212	4,293	3,906	3,385	3,006	2,970
60%	2,722	2,760	3,004	3,167	3,417	3,757	4,082	4,152	3,691	3,188	2,843	2,821
70%	2,574	2,594	2,714	2,957	3,282	3,566	3,950	3,831	3,437	2,975	2,686	2,654
80%	2,111	2,264	2,294	2,683	3,019	3,376	3,758	3,622	3,205	2,630	2,226	2,198
90%	1,303	1,414	1,456	1,840	2,177	2,813	2,705	2,893	2,522	1,914	1,601	1,502
Long Term												
Full Simulation Period[a]	2,624	2,645	2,777	3,029	3,299	3,644	3,936	3,961	3,654	3,172	2,838	2,723
Water Year Types[b]												
Wet (32%)	2,908	3,007	3,185	3,430	3,642	3,862	4,317	4,470	4,289	3,880	3,526	3,317
Above Normal (15%)	2,578	2,571	2,741	3,185	3,453	3,959	4,399	4,474	4,129	3,570	3,235	3,197
Below Normal (17%)	2,662	2,668	2,727	3,023	3,365	3,736	4,099	4,110	3,776	3,267	2,932	2,872
Dry (22%)	2,581	2,570	2,719	2,893	3,261	3,731	3,872	3,778	3,390	2,882	2,542	2,455
Critical (15%)	2,072	2,020	2,074	2,215	2,382	2,616	2,554	2,443	2,060	1,568	1,287	1,189

No Action Alternative (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,250	3,252	3,317	3,621	3,844	4,212	4,482	4,552	4,432	3,909	3,576	3,296
20%	3,059	3,044	3,275	3,530	3,744	4,115	4,438	4,552	4,280	3,775	3,464	3,051
30%	2,851	2,890	3,249	3,382	3,649	4,018	4,370	4,530	4,172	3,547	3,219	2,990
40%	2,764	2,733	3,082	3,297	3,524	3,960	4,273	4,428	3,973	3,361	3,059	2,845
50%	2,617	2,613	2,942	3,244	3,450	3,766	4,139	4,227	3,779	3,214	2,884	2,696
60%	2,484	2,497	2,617	3,040	3,323	3,716	3,984	4,002	3,575	3,032	2,715	2,550
70%	2,202	2,280	2,424	2,704	3,252	3,440	3,792	3,666	3,362	2,775	2,468	2,381
80%	1,912	1,972	2,137	2,509	2,788	3,226	3,534	3,287	2,879	2,375	1,990	1,956
90%	1,050	1,011	1,067	1,820	2,048	2,557	2,439	2,561	2,271	1,652	1,347	1,215
Long Term												
Full Simulation Period[a]	2,398	2,404	2,604	2,908	3,209	3,562	3,832	3,846	3,503	2,976	2,660	2,472
Water Year Types[b]												
Wet (32%)	2,684	2,759	3,084	3,405	3,647	3,876	4,303	4,457	4,236	3,728	3,396	3,022
Above Normal (15%)	2,403	2,346	2,546	3,104	3,429	3,978	4,395	4,450	4,051	3,439	3,084	2,837
Below Normal (17%)	2,481	2,459	2,540	2,884	3,246	3,654	3,994	4,017	3,661	3,128	2,800	2,706
Dry (22%)	2,301	2,316	2,513	2,698	3,110	3,562	3,684	3,566	3,160	2,623	2,284	2,240
Critical (15%)	1,822	1,760	1,836	1,977	2,145	2,355	2,283	2,138	1,696	1,236	1,040	986

No Action Alternative (ELT) minus Existing Condition

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	-30	-17	-75	-13	-39	0	-47	-172	-124	-104
20%	-191	-207	-52	-21	-59	-7	-18	0	-73	-185	-200	-349
30%	-362	-325	-60	-137	-35	-21	2	-22	-67	-171	-153	-363
40%	-382	-420	-193	-104	-110	-32	-22	-35	-79	-171	-153	-323
50%	-255	-367	-301	-43	-83	-138	-74	-66	-127	-171	-121	-274
60%	-238	-263	-387	-127	-93	-41	-98	-150	-116	-155	-127	-271
70%	-372	-314	-290	-253	-30	-127	-159	-166	-74	-200	-218	-274
80%	-199	-293	-158	-174	-231	-151	-225	-335	-327	-256	-236	-241
90%	-253	-404	-389	-20	-129	-256	-266	-332	-251	-262	-254	-287
Long Term												
Full Simulation Period[a]	-226	-241	-173	-121	-90	-82	-104	-115	-151	-197	-179	-251
Water Year Types[b]												
Wet (32%)	-224	-248	-101	-25	5	14	-14	-12	-53	-152	-131	-294
Above Normal (15%)	-175	-225	-195	-81	-24	19	-3	-24	-78	-131	-151	-360
Below Normal (17%)	-181	-210	-187	-139	-119	-82	-105	-93	-115	-139	-132	-165
Dry (22%)	-281	-253	-207	-194	-151	-169	-188	-212	-231	-260	-258	-215
Critical (15%)	-249	-260	-238	-237	-237	-261	-271	-305	-363	-332	-247	-203

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-41-2. Shasta Lake, End of Month Storage

Existing Condition

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,250	3,252	3,347	3,638	3,919	4,226	4,521	4,552	4,479	4,081	3,700	3,400
20%	3,250	3,250	3,327	3,552	3,803	4,123	4,456	4,552	4,353	3,960	3,664	3,400
30%	3,213	3,215	3,309	3,520	3,684	4,039	4,369	4,552	4,239	3,718	3,372	3,353
40%	3,146	3,153	3,276	3,401	3,635	3,992	4,295	4,463	4,052	3,532	3,213	3,167
50%	2,871	2,980	3,243	3,287	3,533	3,903	4,212	4,293	3,906	3,385	3,006	2,970
60%	2,722	2,760	3,004	3,167	3,417	3,757	4,082	4,152	3,691	3,188	2,843	2,821
70%	2,574	2,594	2,714	2,957	3,282	3,566	3,950	3,831	3,437	2,975	2,686	2,654
80%	2,111	2,264	2,294	2,683	3,019	3,376	3,758	3,622	3,205	2,630	2,226	2,198
90%	1,303	1,414	1,456	1,840	2,177	2,813	2,705	2,893	2,522	1,914	1,601	1,502
Long Term												
Full Simulation Period[a]	2,624	2,645	2,777	3,029	3,299	3,644	3,936	3,961	3,654	3,172	2,838	2,723
Water Year Types[b]												
Wet (32%)	2,908	3,007	3,185	3,430	3,642	3,862	4,317	4,470	4,289	3,880	3,526	3,317
Above Normal (15%)	2,578	2,571	2,741	3,185	3,453	3,959	4,399	4,474	4,129	3,570	3,235	3,197
Below Normal (17%)	2,662	2,668	2,727	3,023	3,365	3,736	4,099	4,110	3,776	3,267	2,932	2,872
Dry (22%)	2,581	2,570	2,719	2,893	3,261	3,731	3,872	3,778	3,390	2,882	2,542	2,455
Critical (15%)	2,072	2,020	2,074	2,215	2,382	2,616	2,554	2,443	2,060	1,568	1,287	1,189

Alternative 2D (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,203	3,252	3,338	3,621	3,844	4,225	4,492	4,552	4,391	3,882	3,537	3,240
20%	3,096	3,154	3,309	3,539	3,742	4,118	4,437	4,552	4,252	3,776	3,422	3,166
30%	2,976	3,101	3,275	3,432	3,671	4,007	4,382	4,483	4,132	3,498	3,171	2,993
40%	2,689	2,949	3,225	3,363	3,564	3,948	4,271	4,327	3,820	3,202	2,913	2,766
50%	2,569	2,626	3,050	3,252	3,492	3,829	4,149	4,125	3,676	3,131	2,729	2,648
60%	2,379	2,442	2,713	3,127	3,351	3,672	3,992	3,936	3,443	2,919	2,589	2,517
70%	2,242	2,336	2,503	2,790	3,252	3,476	3,764	3,589	3,191	2,689	2,462	2,426
80%	1,927	2,028	2,130	2,505	2,870	3,270	3,619	3,304	2,842	2,363	2,056	2,026
90%	1,167	1,081	1,177	1,855	2,288	2,650	2,529	2,646	2,303	1,815	1,484	1,345
Long Term												
Full Simulation Period[a]	2,400	2,466	2,662	2,945	3,232	3,578	3,847	3,824	3,450	2,926	2,622	2,480
Water Year Types[b]												
Wet (32%)	2,675	2,811	3,121	3,418	3,647	3,876	4,303	4,436	4,188	3,685	3,358	3,037
Above Normal (15%)	2,415	2,445	2,666	3,186	3,467	3,982	4,397	4,379	3,937	3,342	2,989	2,848
Below Normal (17%)	2,509	2,564	2,647	2,955	3,298	3,690	4,032	4,007	3,605	3,048	2,694	2,647
Dry (22%)	2,245	2,307	2,491	2,675	3,091	3,555	3,666	3,503	3,072	2,552	2,280	2,262
Critical (15%)	1,896	1,868	1,938	2,069	2,233	2,434	2,361	2,207	1,755	1,282	1,089	1,038

Alternative 2D (ELT) minus Existing Condition

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-47	0	-10	-17	-75	-1	-29	0	-88	-199	-163	-160
20%	-154	-96	-18	-13	-61	-5	-18	0	-100	-184	-242	-234
30%	-237	-114	-34	-87	-13	-32	13	-69	-107	-220	-200	-360
40%	-457	-204	-51	-38	-71	-44	-24	-135	-232	-330	-300	-401
50%	-302	-353	-193	-34	-41	-74	-64	-168	-230	-254	-276	-322
60%	-343	-318	-292	-41	-66	-85	-90	-216	-248	-268	-253	-304
70%	-332	-259	-211	-166	-30	-90	-186	-242	-245	-286	-225	-229
80%	-184	-236	-164	-178	-150	-107	-140	-318	-364	-267	-170	-172
90%	-135	-333	-279	15	111	-163	-176	-247	-218	-99	-117	-158
Long Term												
Full Simulation Period[a]	-223	-179	-115	-84	-67	-65	-89	-137	-204	-247	-217	-242
Water Year Types[b]												
Wet (32%)	-233	-196	-64	-12	5	14	-14	-33	-101	-194	-168	-279
Above Normal (15%)	-163	-126	-75	1	14	23	-2	-95	-192	-228	-246	-349
Below Normal (17%)	-153	-104	-80	-68	-67	-46	-67	-103	-171	-219	-239	-225
Dry (22%)	-336	-263	-228	-217	-169	-176	-206	-275	-319	-330	-262	-192
Critical (15%)	-176	-152	-136	-146	-149	-182	-194	-235	-305	-285	-199	-151

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-41-3. Shasta Lake, End of Month Storage

Existing Condition

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,250	3,252	3,347	3,638	3,919	4,226	4,521	4,552	4,479	4,081	3,700	3,400
20%	3,250	3,250	3,327	3,552	3,803	4,123	4,456	4,552	4,353	3,960	3,664	3,400
30%	3,213	3,215	3,309	3,520	3,684	4,039	4,369	4,552	4,239	3,718	3,372	3,353
40%	3,146	3,153	3,276	3,401	3,635	3,992	4,295	4,463	4,052	3,532	3,213	3,167
50%	2,871	2,980	3,243	3,287	3,533	3,903	4,212	4,293	3,906	3,385	3,006	2,970
60%	2,722	2,760	3,004	3,167	3,417	3,757	4,082	4,152	3,691	3,188	2,843	2,821
70%	2,574	2,594	2,714	2,957	3,282	3,566	3,950	3,831	3,437	2,975	2,686	2,654
80%	2,111	2,264	2,294	2,683	3,019	3,376	3,758	3,622	3,205	2,630	2,226	2,198
90%	1,303	1,414	1,456	1,840	2,177	2,813	2,705	2,893	2,522	1,914	1,601	1,502
Long Term												
Full Simulation Period[a]	2,624	2,645	2,777	3,029	3,299	3,644	3,936	3,961	3,654	3,172	2,838	2,723
Water Year Types[b]												
Wet (32%)	2,908	3,007	3,185	3,430	3,642	3,862	4,317	4,470	4,289	3,880	3,526	3,317
Above Normal (15%)	2,578	2,571	2,741	3,185	3,453	3,959	4,399	4,474	4,129	3,570	3,235	3,197
Below Normal (17%)	2,662	2,668	2,727	3,023	3,365	3,736	4,099	4,110	3,776	3,267	2,932	2,872
Dry (22%)	2,581	2,570	2,719	2,893	3,261	3,731	3,872	3,778	3,390	2,882	2,542	2,455
Critical (15%)	2,072	2,020	2,074	2,215	2,382	2,616	2,554	2,443	2,060	1,568	1,287	1,189

Alternative 4A (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,207	3,231	3,333	3,621	3,907	4,212	4,478	4,552	4,432	3,879	3,583	3,329
20%	3,088	3,159	3,308	3,549	3,771	4,118	4,423	4,552	4,281	3,790	3,465	3,076
30%	2,884	3,095	3,282	3,459	3,660	4,018	4,362	4,528	4,166	3,520	3,190	2,982
40%	2,811	2,923	3,252	3,367	3,559	3,970	4,282	4,389	3,915	3,319	3,000	2,848
50%	2,585	2,719	3,061	3,252	3,490	3,857	4,157	4,213	3,744	3,171	2,859	2,714
60%	2,510	2,526	2,773	3,041	3,405	3,731	4,037	4,020	3,573	3,048	2,727	2,654
70%	2,294	2,400	2,463	2,861	3,252	3,456	3,850	3,742	3,327	2,793	2,579	2,485
80%	1,944	2,032	2,280	2,550	2,852	3,256	3,680	3,338	2,893	2,388	2,050	2,007
90%	1,054	963	1,169	1,808	2,264	2,711	2,576	2,695	2,367	1,778	1,451	1,270
Long Term												
Full Simulation Period[a]	2,420	2,486	2,680	2,957	3,241	3,588	3,855	3,863	3,494	2,969	2,675	2,513
Water Year Types[b]												
Wet (32%)	2,705	2,838	3,130	3,425	3,647	3,876	4,304	4,458	4,220	3,711	3,384	3,026
Above Normal (15%)	2,423	2,450	2,669	3,186	3,469	3,982	4,397	4,444	4,010	3,401	3,073	2,889
Below Normal (17%)	2,503	2,556	2,642	2,957	3,302	3,686	4,018	4,041	3,654	3,104	2,794	2,745
Dry (22%)	2,302	2,364	2,558	2,726	3,130	3,601	3,719	3,582	3,142	2,629	2,350	2,322
Critical (15%)	1,880	1,861	1,942	2,060	2,227	2,432	2,355	2,204	1,746	1,280	1,092	1,041

Alternative 4A (ELT) minus Existing Condition

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-43	-21	-14	-17	-12	-13	-43	0	-47	-202	-117	-71
20%	-162	-91	-20	-3	-33	-5	-33	0	-72	-170	-200	-324
30%	-329	-120	-27	-60	-23	-21	-7	-24	-73	-198	-182	-371
40%	-335	-230	-24	-34	-76	-22	-13	-74	-137	-214	-213	-319
50%	-286	-261	-183	-34	-43	-46	-56	-80	-162	-214	-147	-256
60%	-212	-234	-231	-126	-11	-26	-45	-132	-117	-140	-116	-167
70%	-281	-194	-252	-96	-30	-111	-100	-89	-110	-182	-107	-170
80%	-167	-232	-14	-133	-167	-120	-79	-284	-312	-243	-176	-190
90%	-249	-451	-288	-32	87	-102	-129	-198	-155	-136	-150	-232
Long Term												
Full Simulation Period[a]	-204	-159	-97	-72	-58	-56	-81	-98	-161	-204	-163	-209
Water Year Types[b]												
Wet (32%)	-203	-169	-54	-6	5	14	-13	-12	-69	-168	-142	-290
Above Normal (15%)	-155	-121	-72	1	16	23	-2	-30	-119	-169	-162	-308
Below Normal (17%)	-159	-112	-85	-67	-63	-50	-81	-69	-121	-163	-139	-126
Dry (22%)	-279	-206	-162	-167	-131	-130	-153	-196	-248	-253	-192	-133
Critical (15%)	-192	-158	-132	-154	-155	-184	-199	-239	-314	-287	-195	-149

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-41-4. Shasta Lake, End of Month Storage

Existing Condition

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,250	3,252	3,347	3,638	3,919	4,226	4,521	4,552	4,479	4,081	3,700	3,400
20%	3,250	3,250	3,327	3,552	3,803	4,123	4,456	4,552	4,353	3,960	3,664	3,400
30%	3,213	3,215	3,309	3,520	3,684	4,039	4,369	4,552	4,239	3,718	3,372	3,353
40%	3,146	3,153	3,276	3,401	3,635	3,992	4,295	4,463	4,052	3,532	3,213	3,167
50%	2,871	2,980	3,243	3,287	3,533	3,903	4,212	4,293	3,906	3,385	3,006	2,970
60%	2,722	2,760	3,004	3,167	3,417	3,757	4,082	4,152	3,691	3,188	2,843	2,821
70%	2,574	2,594	2,714	2,957	3,282	3,566	3,950	3,831	3,437	2,975	2,686	2,654
80%	2,111	2,264	2,294	2,683	3,019	3,376	3,758	3,622	3,205	2,630	2,226	2,198
90%	1,303	1,414	1,456	1,840	2,177	2,813	2,705	2,893	2,522	1,914	1,601	1,502
Long Term												
Full Simulation Period[a]	2,624	2,645	2,777	3,029	3,299	3,644	3,936	3,961	3,654	3,172	2,838	2,723
Water Year Types[b]												
Wet (32%)	2,908	3,007	3,185	3,430	3,642	3,862	4,317	4,470	4,289	3,880	3,526	3,317
Above Normal (15%)	2,578	2,571	2,741	3,185	3,453	3,959	4,399	4,474	4,129	3,570	3,235	3,197
Below Normal (17%)	2,662	2,668	2,727	3,023	3,365	3,736	4,099	4,110	3,776	3,267	2,932	2,872
Dry (22%)	2,581	2,570	2,719	2,893	3,261	3,731	3,872	3,778	3,390	2,882	2,542	2,455
Critical (15%)	2,072	2,020	2,074	2,215	2,382	2,616	2,554	2,443	2,060	1,568	1,287	1,189

Alternative 5A (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,249	3,252	3,335	3,621	3,897	4,225	4,492	4,552	4,432	3,875	3,537	3,297
20%	3,056	3,169	3,309	3,539	3,742	4,118	4,434	4,552	4,279	3,746	3,390	3,049
30%	2,920	2,980	3,261	3,409	3,668	4,009	4,382	4,527	4,167	3,541	3,186	2,916
40%	2,747	2,878	3,197	3,354	3,558	3,960	4,271	4,363	3,862	3,310	2,963	2,774
50%	2,572	2,637	3,016	3,252	3,448	3,829	4,139	4,182	3,677	3,147	2,758	2,676
60%	2,444	2,469	2,702	3,069	3,350	3,695	3,991	3,978	3,516	2,982	2,631	2,543
70%	2,302	2,387	2,448	2,768	3,252	3,450	3,807	3,663	3,320	2,734	2,486	2,411
80%	1,938	2,028	2,198	2,504	2,818	3,251	3,632	3,353	2,876	2,305	2,003	2,001
90%	1,193	1,103	1,323	1,892	2,257	2,610	2,580	2,692	2,384	1,929	1,471	1,374
Long Term												
Full Simulation Period[a]	2,411	2,467	2,663	2,947	3,240	3,585	3,851	3,846	3,488	2,952	2,631	2,473
Water Year Types[b]												
Wet (32%)	2,682	2,810	3,118	3,417	3,647	3,876	4,304	4,453	4,219	3,699	3,345	2,995
Above Normal (15%)	2,404	2,401	2,617	3,157	3,464	3,982	4,397	4,419	3,999	3,388	3,029	2,834
Below Normal (17%)	2,468	2,516	2,601	2,909	3,266	3,665	4,006	4,016	3,630	3,090	2,741	2,688
Dry (22%)	2,302	2,361	2,550	2,722	3,132	3,585	3,695	3,542	3,112	2,543	2,254	2,236
Critical (15%)	1,928	1,891	1,966	2,099	2,269	2,465	2,379	2,217	1,791	1,349	1,124	1,084

Alternative 5A (ELT) minus Existing Condition

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1	0	-12	-17	-23	-1	-29	0	-47	-206	-163	-103
20%	-194	-82	-18	-13	-61	-5	-22	0	-73	-215	-275	-351
30%	-292	-235	-48	-111	-15	-31	13	-25	-72	-178	-186	-437
40%	-399	-275	-79	-47	-77	-32	-24	-100	-190	-223	-249	-393
50%	-299	-342	-227	-34	-84	-75	-74	-111	-230	-238	-247	-294
60%	-278	-291	-302	-99	-66	-62	-91	-174	-174	-206	-212	-278
70%	-273	-208	-267	-189	-30	-116	-143	-169	-117	-241	-200	-244
80%	-173	-236	-96	-180	-202	-126	-127	-268	-330	-326	-223	-197
90%	-110	-312	-134	52	80	-203	-125	-201	-138	15	-130	-129
Long Term												
Full Simulation Period[a]	-213	-178	-114	-82	-59	-58	-85	-114	-167	-221	-207	-250
Water Year Types[b]												
Wet (32%)	-226	-198	-67	-13	5	14	-13	-17	-70	-180	-181	-321
Above Normal (15%)	-175	-170	-123	-28	11	22	-2	-56	-130	-182	-206	-363
Below Normal (17%)	-194	-153	-126	-114	-99	-71	-93	-94	-145	-177	-191	-183
Dry (22%)	-279	-209	-169	-170	-129	-146	-177	-236	-279	-339	-288	-219
Critical (15%)	-144	-129	-107	-116	-113	-151	-175	-226	-269	-219	-164	-105

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-41-5. Shasta Lake, End of Month Storage

No Action Alternative (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,250	3,252	3,317	3,621	3,844	4,212	4,482	4,552	4,432	3,909	3,576	3,296
20%	3,059	3,044	3,275	3,530	3,744	4,115	4,438	4,552	4,280	3,775	3,464	3,051
30%	2,851	2,890	3,249	3,382	3,649	4,018	4,370	4,530	4,172	3,547	3,219	2,990
40%	2,764	2,733	3,082	3,297	3,524	3,960	4,273	4,428	3,973	3,361	3,059	2,845
50%	2,617	2,613	2,942	3,244	3,450	3,766	4,139	4,227	3,779	3,214	2,884	2,696
60%	2,484	2,497	2,617	3,040	3,323	3,716	3,984	4,002	3,575	3,032	2,715	2,550
70%	2,202	2,280	2,424	2,704	3,252	3,440	3,792	3,666	3,362	2,775	2,468	2,381
80%	1,912	1,972	2,137	2,509	2,788	3,226	3,534	3,287	2,879	2,375	1,990	1,956
90%	1,050	1,011	1,067	1,820	2,048	2,557	2,439	2,561	2,271	1,652	1,347	1,215
Long Term												
Full Simulation Period[a]	2,398	2,404	2,604	2,908	3,209	3,562	3,832	3,846	3,503	2,976	2,660	2,472
Water Year Types[b]												
Wet (32%)	2,684	2,759	3,084	3,405	3,647	3,876	4,303	4,457	4,236	3,728	3,396	3,022
Above Normal (15%)	2,403	2,346	2,546	3,104	3,429	3,978	4,395	4,450	4,051	3,439	3,084	2,837
Below Normal (17%)	2,481	2,459	2,540	2,884	3,246	3,654	3,994	4,017	3,661	3,128	2,800	2,706
Dry (22%)	2,301	2,316	2,513	2,698	3,110	3,562	3,684	3,566	3,160	2,623	2,284	2,240
Critical (15%)	1,822	1,760	1,836	1,977	2,145	2,355	2,283	2,138	1,696	1,236	1,040	986

Alternative 2D (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,203	3,252	3,338	3,621	3,844	4,225	4,492	4,552	4,391	3,882	3,537	3,240
20%	3,096	3,154	3,309	3,539	3,742	4,118	4,437	4,552	4,252	3,776	3,422	3,166
30%	2,976	3,101	3,275	3,432	3,671	4,007	4,382	4,483	4,132	3,498	3,171	2,993
40%	2,689	2,949	3,225	3,363	3,564	3,948	4,271	4,327	3,820	3,202	2,913	2,766
50%	2,569	2,626	3,050	3,252	3,492	3,829	4,149	4,125	3,676	3,131	2,729	2,648
60%	2,379	2,442	2,713	3,127	3,351	3,672	3,992	3,936	3,443	2,919	2,589	2,517
70%	2,242	2,336	2,503	2,790	3,252	3,476	3,764	3,589	3,191	2,689	2,462	2,426
80%	1,927	2,028	2,130	2,505	2,870	3,270	3,619	3,304	2,842	2,363	2,056	2,026
90%	1,167	1,081	1,177	1,855	2,288	2,650	2,529	2,646	2,303	1,815	1,484	1,345
Long Term												
Full Simulation Period[a]	2,400	2,466	2,662	2,945	3,232	3,578	3,847	3,824	3,450	2,926	2,622	2,480
Water Year Types[b]												
Wet (32%)	2,675	2,811	3,121	3,418	3,647	3,876	4,303	4,436	4,188	3,685	3,358	3,037
Above Normal (15%)	2,415	2,445	2,666	3,186	3,467	3,982	4,397	4,379	3,937	3,342	2,989	2,848
Below Normal (17%)	2,509	2,564	2,647	2,955	3,298	3,690	4,032	4,007	3,605	3,048	2,694	2,647
Dry (22%)	2,245	2,307	2,491	2,675	3,091	3,555	3,666	3,503	3,072	2,552	2,280	2,262
Critical (15%)	1,896	1,868	1,938	2,069	2,233	2,434	2,361	2,207	1,755	1,282	1,089	1,038

Alternative 2D (ELT) minus No Action Alternative (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-47	0	21	0	0	13	11	0	-41	-27	-39	-56
20%	37	110	34	9	-2	2	0	0	-27	0	-42	115
30%	125	211	27	50	22	-11	11	-46	-40	-49	-47	3
40%	-75	216	143	66	40	-12	-2	-100	-153	-159	-147	-79
50%	-48	14	108	9	42	63	10	-102	-102	-83	-155	-48
60%	-106	-55	95	86	28	-44	8	-66	-132	-113	-126	-32
70%	40	56	79	87	0	37	-27	-77	-171	-86	-7	45
80%	15	56	-6	-4	81	44	85	17	-37	-11	66	70
90%	118	70	110	35	240	92	90	85	32	163	137	130
Long Term												
Full Simulation Period[a]	2	62	58	37	23	17	14	-22	-52	-50	-38	9
Water Year Types[b]												
Wet (32%)	-9	51	37	13	0	0	0	-21	-49	-42	-37	15
Above Normal (15%)	12	98	119	81	38	4	2	-71	-114	-97	-95	11
Below Normal (17%)	28	106	107	72	51	35	38	-10	-56	-80	-106	-60
Dry (22%)	-55	-10	-22	-23	-18	-7	-17	-63	-88	-70	-4	22
Critical (15%)	73	108	102	91	89	79	78	69	59	47	49	52

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-41-6. Shasta Lake, End of Month Storage

No Action Alternative (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,250	3,252	3,317	3,621	3,844	4,212	4,482	4,552	4,432	3,909	3,576	3,296
20%	3,059	3,044	3,275	3,530	3,744	4,115	4,438	4,552	4,280	3,775	3,464	3,051
30%	2,851	2,890	3,249	3,382	3,649	4,018	4,370	4,530	4,172	3,547	3,219	2,990
40%	2,764	2,733	3,082	3,297	3,524	3,960	4,273	4,428	3,973	3,361	3,059	2,845
50%	2,617	2,613	2,942	3,244	3,450	3,766	4,139	4,227	3,779	3,214	2,884	2,696
60%	2,484	2,497	2,617	3,040	3,323	3,716	3,984	4,002	3,575	3,032	2,715	2,550
70%	2,202	2,280	2,424	2,704	3,252	3,440	3,792	3,666	3,362	2,775	2,468	2,381
80%	1,912	1,972	2,137	2,509	2,788	3,226	3,534	3,287	2,879	2,375	1,990	1,956
90%	1,050	1,011	1,067	1,820	2,048	2,557	2,439	2,561	2,271	1,652	1,347	1,215
Long Term												
Full Simulation Period[a]	2,398	2,404	2,604	2,908	3,209	3,562	3,832	3,846	3,503	2,976	2,660	2,472
Water Year Types[b]												
Wet (32%)	2,684	2,759	3,084	3,405	3,647	3,876	4,303	4,457	4,236	3,728	3,396	3,022
Above Normal (15%)	2,403	2,346	2,546	3,104	3,429	3,978	4,395	4,450	4,051	3,439	3,084	2,837
Below Normal (17%)	2,481	2,459	2,540	2,884	3,246	3,654	3,994	4,017	3,661	3,128	2,800	2,706
Dry (22%)	2,301	2,316	2,513	2,698	3,110	3,562	3,684	3,566	3,160	2,623	2,284	2,240
Critical (15%)	1,822	1,760	1,836	1,977	2,145	2,355	2,283	2,138	1,696	1,236	1,040	986

Alternative 4A (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,207	3,231	3,333	3,621	3,907	4,212	4,478	4,552	4,432	3,879	3,583	3,329
20%	3,088	3,159	3,308	3,549	3,771	4,118	4,423	4,552	4,281	3,790	3,465	3,076
30%	2,884	3,095	3,282	3,459	3,660	4,018	4,362	4,528	4,166	3,520	3,190	2,982
40%	2,811	2,923	3,252	3,367	3,559	3,970	4,282	4,389	3,915	3,319	3,000	2,848
50%	2,585	2,719	3,061	3,252	3,490	3,857	4,157	4,213	3,744	3,171	2,859	2,714
60%	2,510	2,526	2,773	3,041	3,405	3,731	4,037	4,020	3,573	3,048	2,727	2,654
70%	2,294	2,400	2,463	2,861	3,252	3,456	3,850	3,742	3,327	2,793	2,579	2,485
80%	1,944	2,032	2,280	2,550	2,852	3,256	3,680	3,338	2,893	2,388	2,050	2,007
90%	1,054	963	1,169	1,808	2,264	2,711	2,576	2,695	2,367	1,778	1,451	1,270
Long Term												
Full Simulation Period[a]	2,420	2,486	2,680	2,957	3,241	3,588	3,855	3,863	3,494	2,969	2,675	2,513
Water Year Types[b]												
Wet (32%)	2,705	2,838	3,130	3,425	3,647	3,876	4,304	4,458	4,220	3,711	3,384	3,026
Above Normal (15%)	2,423	2,450	2,669	3,186	3,469	3,982	4,397	4,444	4,010	3,401	3,073	2,889
Below Normal (17%)	2,503	2,556	2,642	2,957	3,302	3,686	4,018	4,041	3,654	3,104	2,794	2,745
Dry (22%)	2,302	2,364	2,558	2,726	3,130	3,601	3,719	3,582	3,142	2,629	2,350	2,322
Critical (15%)	1,880	1,861	1,942	2,060	2,227	2,432	2,355	2,204	1,746	1,280	1,092	1,041

Alternative 4A (ELT) minus No Action Alternative (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-43	-21	16	0	63	0	-3	0	0	-30	7	33
20%	29	115	33	19	26	2	-15	0	1	14	1	26
30%	33	205	34	77	12	0	-8	-2	-6	-27	-29	-8
40%	47	190	170	70	35	10	9	-39	-58	-42	-59	3
50%	-31	106	119	9	40	91	18	-13	-35	-43	-26	18
60%	25	29	156	1	82	15	53	18	-2	15	12	105
70%	91	120	39	158	0	16	58	77	-36	18	111	104
80%	31	60	143	41	64	31	146	51	15	13	60	51
90%	4	-47	102	-13	216	154	137	134	96	126	104	55
Long Term												
Full Simulation Period[a]	22	82	76	49	32	26	23	17	-9	-7	16	42
Water Year Types[b]												
Wet (32%)	21	79	47	19	0	0	1	0	-17	-17	-12	4
Above Normal (15%)	20	103	123	81	40	4	2	-6	-41	-37	-12	52
Below Normal (17%)	22	98	101	73	55	32	24	24	-7	-24	-7	39
Dry (22%)	1	47	45	27	20	39	35	16	-18	7	66	82
Critical (15%)	58	101	106	83	82	77	72	66	49	45	52	54

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-41-7. Shasta Lake, End of Month Storage

No Action Alternative (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,250	3,252	3,317	3,621	3,844	4,212	4,482	4,552	4,432	3,909	3,576	3,296
20%	3,059	3,044	3,275	3,530	3,744	4,115	4,438	4,552	4,280	3,775	3,464	3,051
30%	2,851	2,890	3,249	3,382	3,649	4,018	4,370	4,530	4,172	3,547	3,219	2,990
40%	2,764	2,733	3,082	3,297	3,524	3,960	4,273	4,428	3,973	3,361	3,059	2,845
50%	2,617	2,613	2,942	3,244	3,450	3,766	4,139	4,227	3,779	3,214	2,884	2,696
60%	2,484	2,497	2,617	3,040	3,323	3,716	3,984	4,002	3,575	3,032	2,715	2,550
70%	2,202	2,280	2,424	2,704	3,252	3,440	3,792	3,666	3,362	2,775	2,468	2,381
80%	1,912	1,972	2,137	2,509	2,788	3,226	3,534	3,287	2,879	2,375	1,990	1,956
90%	1,050	1,011	1,067	1,820	2,048	2,557	2,439	2,561	2,271	1,652	1,347	1,215
Long Term												
Full Simulation Period[a]	2,398	2,404	2,604	2,908	3,209	3,562	3,832	3,846	3,503	2,976	2,660	2,472
Water Year Types[b]												
Wet (32%)	2,684	2,759	3,084	3,405	3,647	3,876	4,303	4,457	4,236	3,728	3,396	3,022
Above Normal (15%)	2,403	2,346	2,546	3,104	3,429	3,978	4,395	4,450	4,051	3,439	3,084	2,837
Below Normal (17%)	2,481	2,459	2,540	2,884	3,246	3,654	3,994	4,017	3,661	3,128	2,800	2,706
Dry (22%)	2,301	2,316	2,513	2,698	3,110	3,562	3,684	3,566	3,160	2,623	2,284	2,240
Critical (15%)	1,822	1,760	1,836	1,977	2,145	2,355	2,283	2,138	1,696	1,236	1,040	986

Alternative 5A (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,249	3,252	3,335	3,621	3,897	4,225	4,492	4,552	4,432	3,875	3,537	3,297
20%	3,056	3,169	3,309	3,539	3,742	4,118	4,434	4,552	4,279	3,746	3,390	3,049
30%	2,920	2,980	3,261	3,409	3,668	4,009	4,382	4,527	4,167	3,541	3,186	2,916
40%	2,747	2,878	3,197	3,354	3,558	3,960	4,271	4,363	3,862	3,310	2,963	2,774
50%	2,572	2,637	3,016	3,252	3,448	3,829	4,139	4,182	3,677	3,147	2,758	2,676
60%	2,444	2,469	2,702	3,069	3,350	3,695	3,991	3,978	3,516	2,982	2,631	2,543
70%	2,302	2,387	2,448	2,768	3,252	3,450	3,807	3,663	3,320	2,734	2,486	2,411
80%	1,938	2,028	2,198	2,504	2,818	3,251	3,632	3,353	2,876	2,305	2,003	2,001
90%	1,193	1,103	1,323	1,892	2,257	2,610	2,580	2,692	2,384	1,929	1,471	1,374
Long Term												
Full Simulation Period[a]	2,411	2,467	2,663	2,947	3,240	3,585	3,851	3,846	3,488	2,952	2,631	2,473
Water Year Types[b]												
Wet (32%)	2,682	2,810	3,118	3,417	3,647	3,876	4,304	4,453	4,219	3,699	3,345	2,995
Above Normal (15%)	2,404	2,401	2,617	3,157	3,464	3,982	4,397	4,419	3,999	3,388	3,029	2,834
Below Normal (17%)	2,468	2,516	2,601	2,909	3,266	3,665	4,006	4,016	3,630	3,090	2,741	2,688
Dry (22%)	2,302	2,361	2,550	2,722	3,132	3,585	3,695	3,542	3,112	2,543	2,254	2,236
Critical (15%)	1,928	1,891	1,966	2,099	2,269	2,465	2,379	2,217	1,791	1,349	1,124	1,084

Alternative 5A (ELT) minus No Action Alternative (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1	0	18	0	52	13	11	0	0	-35	-39	1
20%	-3	125	34	9	-2	2	-4	0	0	-30	-74	-2
30%	69	90	13	27	20	-10	11	-3	-5	-6	-33	-74
40%	-17	145	115	57	33	0	-2	-65	-111	-51	-96	-71
50%	-45	24	74	9	-2	63	0	-45	-102	-67	-126	-21
60%	-40	-28	85	28	27	-21	7	-24	-59	-51	-84	-6
70%	99	107	23	64	0	11	15	-3	-42	-41	18	30
80%	26	57	61	-6	30	25	98	67	-3	-70	13	45
90%	143	92	256	72	209	53	140	131	113	277	124	159
Long Term												
Full Simulation Period[a]	13	63	59	39	31	24	19	0	-15	-24	-29	1
Water Year Types[b]												
Wet (32%)	-2	50	34	12	0	0	1	-4	-17	-28	-51	-27
Above Normal (15%)	0	55	71	53	35	4	1	-32	-52	-51	-55	-2
Below Normal (17%)	-13	57	61	25	19	11	12	-1	-31	-38	-59	-18
Dry (22%)	1	44	37	24	22	23	12	-24	-48	-79	-30	-4
Critical (15%)	105	131	131	122	124	110	97	79	94	113	84	97

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

C.42. Oroville Storage

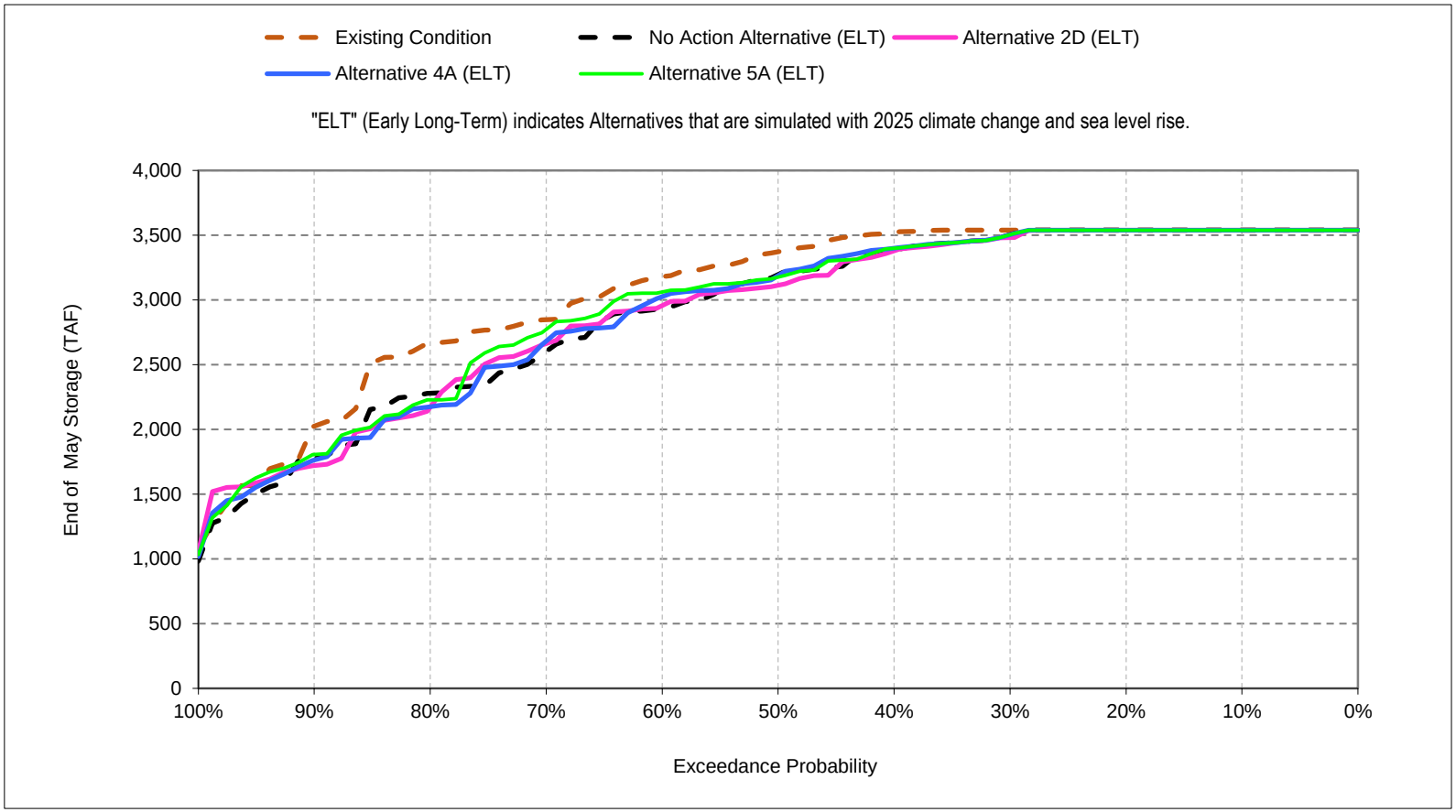


Figure C-42-1. Lake Oroville, End of May Storage

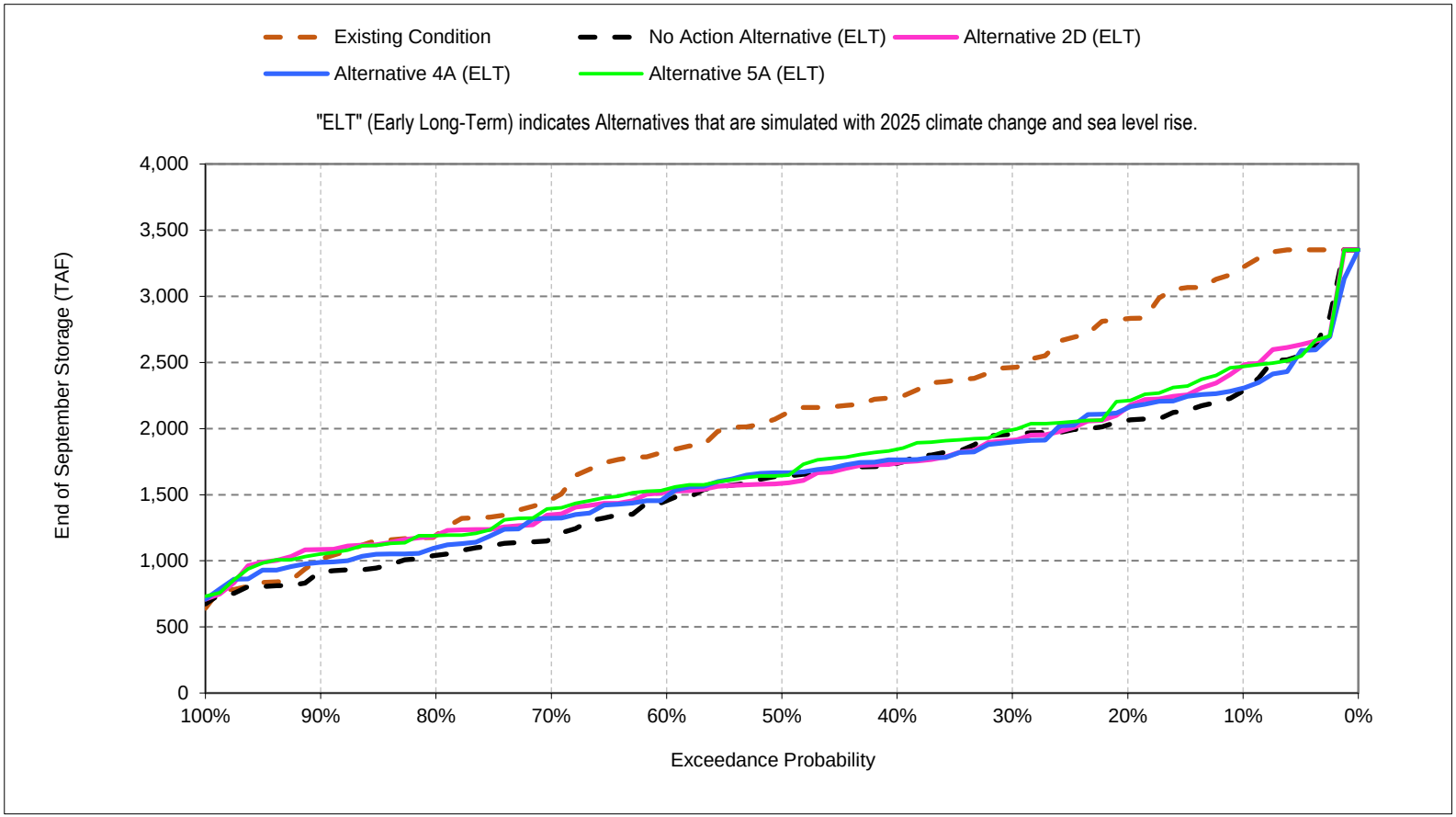


Figure C-42-2. Lake Oroville, End of September Storage

Table C-42-1. Lake Oroville, End of Month Storage

Existing Condition

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,161	3,046	2,987	2,976	3,052	3,116	3,395	3,538	3,538	3,378	3,278	3,221
20%	2,778	2,876	2,812	2,869	2,946	3,025	3,352	3,538	3,538	3,037	2,862	2,831
30%	2,408	2,583	2,787	2,792	2,853	2,981	3,293	3,538	3,538	2,959	2,563	2,461
40%	2,169	2,291	2,559	2,788	2,788	2,938	3,237	3,520	3,380	2,789	2,399	2,239
50%	2,031	2,081	2,337	2,688	2,788	2,841	3,205	3,371	3,199	2,651	2,232	2,099
60%	1,690	1,792	2,004	2,217	2,588	2,788	3,100	3,179	3,025	2,422	2,010	1,828
70%	1,443	1,426	1,512	1,891	2,203	2,584	2,807	2,847	2,697	2,105	1,614	1,464
80%	1,156	1,220	1,291	1,490	1,892	2,248	2,563	2,666	2,467	1,885	1,378	1,194
90%	1,031	1,065	1,145	1,293	1,480	1,720	1,759	2,024	1,858	1,283	1,065	1,012
Long Term												
Full Simulation Period[a]	1,980	2,032	2,141	2,305	2,470	2,644	2,918	3,053	2,945	2,460	2,162	2,054
Water Year Types[b]												
Wet (32%)	2,280	2,366	2,576	2,760	2,889	2,943	3,303	3,507	3,488	3,146	2,986	2,899
Above Normal (15%)	1,922	2,023	2,154	2,459	2,660	2,937	3,298	3,497	3,397	2,848	2,483	2,374
Below Normal (17%)	2,027	2,040	2,115	2,285	2,483	2,673	3,046	3,264	3,163	2,577	2,177	2,018
Dry (22%)	1,818	1,852	1,913	2,009	2,226	2,520	2,713	2,756	2,556	1,977	1,508	1,361
Critical (15%)	1,574	1,576	1,557	1,632	1,721	1,858	1,857	1,824	1,644	1,174	1,022	984

No Action Alternative (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,347	2,452	2,788	2,813	2,961	3,059	3,354	3,538	3,538	3,039	2,802	2,285
20%	1,971	2,068	2,435	2,788	2,804	2,994	3,303	3,538	3,535	2,939	2,540	2,062
30%	1,861	1,935	2,205	2,575	2,788	2,944	3,276	3,504	3,390	2,763	2,366	1,958
40%	1,704	1,833	1,961	2,396	2,781	2,830	3,218	3,387	3,196	2,540	2,137	1,737
50%	1,535	1,545	1,782	2,073	2,562	2,788	3,123	3,196	2,969	2,337	1,949	1,639
60%	1,373	1,448	1,621	1,825	2,305	2,652	2,831	2,935	2,746	2,152	1,739	1,454
70%	1,146	1,234	1,404	1,573	1,920	2,313	2,647	2,601	2,340	1,697	1,301	1,168
80%	1,005	1,067	1,222	1,469	1,738	2,008	2,173	2,278	2,053	1,484	1,111	1,041
90%	854	866	1,006	1,217	1,420	1,681	1,853	1,776	1,571	1,033	951	915
Long Term												
Full Simulation Period[a]	1,557	1,629	1,830	2,079	2,343	2,551	2,811	2,907	2,758	2,226	1,886	1,618
Water Year Types[b]												
Wet (32%)	1,786	1,925	2,352	2,666	2,878	2,945	3,298	3,488	3,442	2,959	2,643	2,175
Above Normal (15%)	1,575	1,677	1,825	2,259	2,660	2,945	3,292	3,438	3,288	2,666	2,232	1,824
Below Normal (17%)	1,540	1,560	1,647	1,904	2,286	2,567	2,930	3,089	2,911	2,305	1,891	1,682
Dry (22%)	1,367	1,410	1,515	1,649	1,912	2,251	2,417	2,401	2,156	1,584	1,196	1,111
Critical (15%)	1,345	1,348	1,390	1,476	1,584	1,738	1,726	1,667	1,470	1,066	931	889

No Action Alternative (ELT) minus Existing Condition

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-814	-594	-199	-163	-91	-57	-41	0	0	-339	-476	-936
20%	-807	-808	-376	-81	-141	-31	-49	0	-3	-98	-322	-769
30%	-547	-648	-582	-217	-65	-37	-17	-34	-148	-196	-197	-503
40%	-465	-458	-599	-392	-7	-108	-19	-133	-185	-249	-262	-503
50%	-496	-536	-555	-614	-226	-53	-82	-176	-230	-314	-283	-460
60%	-317	-344	-384	-393	-283	-136	-269	-245	-279	-270	-271	-374
70%	-298	-191	-108	-318	-283	-271	-161	-246	-357	-408	-313	-296
80%	-152	-153	-70	-21	-154	-240	-390	-387	-414	-400	-267	-152
90%	-177	-199	-138	-76	-59	-40	94	-248	-287	-250	-114	-97
Long Term												
Full Simulation Period[a]	-423	-402	-311	-226	-126	-93	-107	-146	-187	-234	-276	-436
Water Year Types[b]												
Wet (32%)	-494	-441	-224	-94	-11	2	-5	-20	-46	-187	-343	-725
Above Normal (15%)	-347	-345	-328	-200	0	8	-6	-60	-109	-182	-252	-550
Below Normal (17%)	-487	-479	-468	-380	-197	-105	-115	-175	-252	-272	-286	-336
Dry (22%)	-451	-442	-398	-360	-314	-269	-297	-355	-400	-393	-312	-250
Critical (15%)	-230	-227	-168	-156	-137	-120	-131	-158	-173	-108	-92	-95

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-42-2. Lake Oroville, End of Month Storage

Existing Condition

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,161	3,046	2,987	2,976	3,052	3,116	3,395	3,538	3,538	3,378	3,278	3,221
20%	2,778	2,876	2,812	2,869	2,946	3,025	3,352	3,538	3,538	3,037	2,862	2,831
30%	2,408	2,583	2,787	2,792	2,853	2,981	3,293	3,538	3,538	2,959	2,563	2,461
40%	2,169	2,291	2,559	2,788	2,788	2,938	3,237	3,520	3,380	2,789	2,399	2,239
50%	2,031	2,081	2,337	2,688	2,788	2,841	3,205	3,371	3,199	2,651	2,232	2,099
60%	1,690	1,792	2,004	2,217	2,588	2,788	3,100	3,179	3,025	2,422	2,010	1,828
70%	1,443	1,426	1,512	1,891	2,203	2,584	2,807	2,847	2,697	2,105	1,614	1,464
80%	1,156	1,220	1,291	1,490	1,892	2,248	2,563	2,666	2,467	1,885	1,378	1,194
90%	1,031	1,065	1,145	1,293	1,480	1,720	1,759	2,024	1,858	1,283	1,065	1,012
Long Term												
Full Simulation Period[a]	1,980	2,032	2,141	2,305	2,470	2,644	2,918	3,053	2,945	2,460	2,162	2,054
Water Year Types[b]												
Wet (32%)	2,280	2,366	2,576	2,760	2,889	2,943	3,303	3,507	3,488	3,146	2,986	2,899
Above Normal (15%)	1,922	2,023	2,154	2,459	2,660	2,937	3,298	3,497	3,397	2,848	2,483	2,374
Below Normal (17%)	2,027	2,040	2,115	2,285	2,483	2,673	3,046	3,264	3,163	2,577	2,177	2,018
Dry (22%)	1,818	1,852	1,913	2,009	2,226	2,520	2,713	2,756	2,556	1,977	1,508	1,361
Critical (15%)	1,574	1,576	1,557	1,632	1,721	1,858	1,857	1,824	1,644	1,174	1,022	984

Alternative 2D (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,343	2,447	2,788	2,844	2,952	3,059	3,365	3,538	3,538	3,092	2,798	2,476
20%	2,106	2,222	2,541	2,788	2,845	2,994	3,315	3,538	3,370	2,856	2,466	2,162
30%	1,869	2,007	2,272	2,762	2,788	2,944	3,280	3,481	3,034	2,465	2,163	1,912
40%	1,631	1,765	2,072	2,534	2,788	2,844	3,218	3,377	2,889	2,289	1,962	1,740
50%	1,518	1,540	1,826	2,129	2,628	2,788	3,172	3,113	2,681	2,173	1,846	1,586
60%	1,427	1,443	1,586	1,831	2,304	2,730	2,996	2,956	2,562	2,013	1,680	1,519
70%	1,278	1,286	1,467	1,653	2,026	2,431	2,598	2,662	2,307	1,828	1,558	1,349
80%	1,161	1,195	1,258	1,525	1,766	2,025	2,257	2,171	2,018	1,526	1,224	1,192
90%	1,048	1,074	1,117	1,369	1,532	1,730	1,799	1,721	1,552	1,353	1,116	1,087
Long Term												
Full Simulation Period[a]	1,623	1,689	1,890	2,146	2,380	2,585	2,841	2,913	2,641	2,186	1,896	1,691
Water Year Types[b]												
Wet (32%)	1,804	1,935	2,379	2,688	2,866	2,945	3,298	3,476	3,300	2,875	2,604	2,242
Above Normal (15%)	1,706	1,803	1,957	2,408	2,694	2,947	3,294	3,377	3,009	2,395	2,018	1,698
Below Normal (17%)	1,563	1,583	1,677	1,950	2,318	2,621	2,984	3,104	2,687	2,131	1,768	1,653
Dry (22%)	1,475	1,514	1,599	1,742	2,005	2,328	2,479	2,439	2,143	1,699	1,417	1,342
Critical (15%)	1,435	1,427	1,448	1,547	1,646	1,788	1,770	1,717	1,536	1,282	1,108	1,054

Alternative 2D (ELT) minus Existing Condition

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-818	-599	-199	-132	-100	-57	-31	0	0	-286	-480	-744
20%	-672	-655	-271	-81	-100	-31	-36	0	-168	-181	-396	-669
30%	-539	-577	-514	-30	-65	-37	-13	-57	-504	-494	-401	-549
40%	-538	-526	-487	-254	0	-94	-19	-142	-492	-500	-437	-499
50%	-513	-542	-511	-558	-160	-53	-33	-259	-518	-478	-386	-513
60%	-263	-349	-418	-386	-284	-58	-103	-223	-463	-408	-330	-309
70%	-165	-139	-46	-239	-177	-152	-209	-185	-390	-278	-56	-116
80%	5	-25	-34	35	-126	-223	-306	-495	-449	-358	-154	-1
90%	18	9	-27	76	53	9	40	-303	-306	69	51	74
Long Term												
Full Simulation Period[a]	-357	-343	-251	-159	-90	-59	-77	-140	-304	-274	-266	-363
Water Year Types[b]												
Wet (32%)	-476	-431	-197	-72	-23	2	-5	-32	-188	-271	-382	-657
Above Normal (15%)	-216	-220	-197	-51	34	10	-4	-121	-388	-454	-466	-676
Below Normal (17%)	-464	-457	-438	-335	-165	-51	-62	-161	-476	-446	-409	-365
Dry (22%)	-343	-338	-314	-267	-220	-192	-234	-317	-413	-278	-91	-19
Critical (15%)	-139	-148	-109	-85	-75	-70	-87	-108	-108	107	86	70

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-42-3. Lake Oroville, End of Month Storage

Existing Condition

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,161	3,046	2,987	2,976	3,052	3,116	3,395	3,538	3,538	3,378	3,278	3,221
20%	2,778	2,876	2,812	2,869	2,946	3,025	3,352	3,538	3,538	3,037	2,862	2,831
30%	2,408	2,583	2,787	2,792	2,853	2,981	3,293	3,538	3,538	2,959	2,563	2,461
40%	2,169	2,291	2,559	2,788	2,788	2,938	3,237	3,520	3,380	2,789	2,399	2,239
50%	2,031	2,081	2,337	2,688	2,788	2,841	3,205	3,371	3,199	2,651	2,232	2,099
60%	1,690	1,792	2,004	2,217	2,588	2,788	3,100	3,179	3,025	2,422	2,010	1,828
70%	1,443	1,426	1,512	1,891	2,203	2,584	2,807	2,847	2,697	2,105	1,614	1,464
80%	1,156	1,220	1,291	1,490	1,892	2,248	2,563	2,666	2,467	1,885	1,378	1,194
90%	1,031	1,065	1,145	1,293	1,480	1,720	1,759	2,024	1,858	1,283	1,065	1,012
Long Term												
Full Simulation Period[a]	1,980	2,032	2,141	2,305	2,470	2,644	2,918	3,053	2,945	2,460	2,162	2,054
Water Year Types[b]												
Wet (32%)	2,280	2,366	2,576	2,760	2,889	2,943	3,303	3,507	3,488	3,146	2,986	2,899
Above Normal (15%)	1,922	2,023	2,154	2,459	2,660	2,937	3,298	3,497	3,397	2,848	2,483	2,374
Below Normal (17%)	2,027	2,040	2,115	2,285	2,483	2,673	3,046	3,264	3,163	2,577	2,177	2,018
Dry (22%)	1,818	1,852	1,913	2,009	2,226	2,520	2,713	2,756	2,556	1,977	1,508	1,361
Critical (15%)	1,574	1,576	1,557	1,632	1,721	1,858	1,857	1,824	1,644	1,174	1,022	984

Alternative 4A (ELT)

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,310	2,389	2,788	2,843	2,987	3,063	3,365	3,538	3,538	2,989	2,683	2,305
20%	2,068	2,224	2,599	2,788	2,886	2,998	3,316	3,538	3,498	2,891	2,505	2,156
30%	1,880	1,917	2,322	2,781	2,801	2,953	3,283	3,503	3,226	2,635	2,268	1,898
40%	1,667	1,823	2,089	2,540	2,788	2,890	3,228	3,399	3,050	2,408	2,030	1,764
50%	1,558	1,607	1,810	2,135	2,638	2,788	3,150	3,187	2,887	2,307	1,898	1,666
60%	1,413	1,478	1,582	1,803	2,190	2,633	2,904	3,025	2,605	1,978	1,691	1,487
70%	1,246	1,266	1,368	1,623	1,985	2,364	2,583	2,682	2,308	1,732	1,408	1,322
80%	1,134	1,178	1,213	1,435	1,738	1,971	2,068	2,175	1,952	1,390	1,154	1,100
90%	959	1,008	1,079	1,321	1,508	1,695	1,820	1,764	1,558	1,260	1,022	988
Long Term												
Full Simulation Period[a]	1,602	1,671	1,880	2,123	2,367	2,560	2,817	2,914	2,692	2,181	1,865	1,660
Water Year Types[b]												
Wet (32%)	1,861	1,997	2,455	2,727	2,895	2,945	3,298	3,488	3,380	2,888	2,579	2,209
Above Normal (15%)	1,620	1,717	1,896	2,367	2,692	2,947	3,294	3,442	3,173	2,538	2,088	1,753
Below Normal (17%)	1,530	1,549	1,634	1,909	2,309	2,586	2,943	3,102	2,793	2,189	1,828	1,718
Dry (22%)	1,412	1,457	1,541	1,667	1,932	2,261	2,422	2,405	2,095	1,554	1,256	1,199
Critical (15%)	1,393	1,381	1,415	1,506	1,620	1,758	1,742	1,686	1,500	1,222	1,052	1,000

Alternative 4A (ELT) minus Existing Condition

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-851	-658	-199	-133	-65	-53	-30	0	0	-390	-595	-916
20%	-710	-653	-213	-81	-59	-27	-36	0	-40	-146	-357	-675
30%	-528	-666	-465	-11	-53	-28	-10	-35	-312	-324	-296	-563
40%	-502	-468	-471	-248	0	-48	-9	-121	-331	-381	-370	-476
50%	-473	-474	-527	-553	-150	-53	-55	-184	-313	-344	-334	-433
60%	-277	-314	-423	-415	-398	-155	-196	-154	-421	-444	-319	-341
70%	-197	-160	-145	-269	-218	-219	-224	-164	-389	-373	-207	-142
80%	-22	-42	-78	-55	-154	-277	-495	-491	-515	-495	-224	-94
90%	-72	-57	-66	28	29	-25	61	-260	-300	-23	-43	-25
Long Term												
Full Simulation Period[a]	-377	-361	-261	-182	-102	-84	-101	-139	-252	-279	-297	-394
Water Year Types[b]												
Wet (32%)	-419	-369	-121	-33	6	2	-5	-20	-108	-258	-407	-690
Above Normal (15%)	-302	-305	-257	-92	31	10	-4	-56	-224	-310	-395	-621
Below Normal (17%)	-497	-490	-480	-376	-174	-87	-103	-162	-370	-388	-349	-301
Dry (22%)	-405	-395	-372	-342	-293	-259	-292	-351	-461	-423	-252	-162
Critical (15%)	-181	-195	-142	-126	-101	-100	-115	-139	-143	48	29	16

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-42-4. Lake Oroville, End of Month Storage

Existing Condition

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,161	3,046	2,987	2,976	3,052	3,116	3,395	3,538	3,538	3,378	3,278	3,221
20%	2,778	2,876	2,812	2,869	2,946	3,025	3,352	3,538	3,538	3,037	2,862	2,831
30%	2,408	2,583	2,787	2,792	2,853	2,981	3,293	3,538	3,538	2,959	2,563	2,461
40%	2,169	2,291	2,559	2,788	2,788	2,938	3,237	3,520	3,380	2,789	2,399	2,239
50%	2,031	2,081	2,337	2,688	2,788	2,841	3,205	3,371	3,199	2,651	2,232	2,099
60%	1,690	1,792	2,004	2,217	2,588	2,788	3,100	3,179	3,025	2,422	2,010	1,828
70%	1,443	1,426	1,512	1,891	2,203	2,584	2,807	2,847	2,697	2,105	1,614	1,464
80%	1,156	1,220	1,291	1,490	1,892	2,248	2,563	2,666	2,467	1,885	1,378	1,194
90%	1,031	1,065	1,145	1,293	1,480	1,720	1,759	2,024	1,858	1,283	1,065	1,012
Long Term												
Full Simulation Period[a]	1,980	2,032	2,141	2,305	2,470	2,644	2,918	3,053	2,945	2,460	2,162	2,054
Water Year Types[b]												
Wet (32%)	2,280	2,366	2,576	2,760	2,889	2,943	3,303	3,507	3,488	3,146	2,986	2,899
Above Normal (15%)	1,922	2,023	2,154	2,459	2,660	2,937	3,298	3,497	3,397	2,848	2,483	2,374
Below Normal (17%)	2,027	2,040	2,115	2,285	2,483	2,673	3,046	3,264	3,163	2,577	2,177	2,018
Dry (22%)	1,818	1,852	1,913	2,009	2,226	2,520	2,713	2,756	2,556	1,977	1,508	1,361
Critical (15%)	1,574	1,576	1,557	1,632	1,721	1,858	1,857	1,824	1,644	1,174	1,022	984

Alternative 5A (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,364	2,479	2,788	2,809	2,985	3,063	3,365	3,538	3,538	2,945	2,700	2,470
20%	2,171	2,274	2,529	2,788	2,879	3,012	3,316	3,538	3,416	2,773	2,488	2,211
30%	1,876	2,038	2,329	2,787	2,801	2,953	3,283	3,503	3,266	2,636	2,158	1,990
40%	1,790	1,851	2,164	2,571	2,788	2,920	3,236	3,399	3,109	2,468	2,006	1,845
50%	1,615	1,639	1,895	2,262	2,721	2,788	3,161	3,176	2,928	2,268	1,876	1,645
60%	1,422	1,425	1,639	1,962	2,309	2,707	3,028	3,061	2,712	2,060	1,675	1,541
70%	1,285	1,311	1,458	1,662	2,087	2,501	2,654	2,772	2,491	1,810	1,433	1,396
80%	1,152	1,206	1,254	1,495	1,788	2,019	2,213	2,229	2,015	1,573	1,247	1,191
90%	1,018	1,024	1,129	1,284	1,505	1,690	1,845	1,806	1,575	1,263	1,111	1,051
Long Term												
Full Simulation Period[a]	1,651	1,718	1,909	2,158	2,403	2,593	2,852	2,943	2,741	2,206	1,882	1,724
Water Year Types[b]												
Wet (32%)	1,852	1,983	2,415	2,717	2,899	2,945	3,298	3,481	3,376	2,866	2,577	2,302
Above Normal (15%)	1,677	1,773	1,920	2,379	2,712	2,947	3,294	3,435	3,199	2,542	2,062	1,839
Below Normal (17%)	1,579	1,598	1,678	1,935	2,317	2,597	2,958	3,111	2,860	2,203	1,779	1,690
Dry (22%)	1,542	1,582	1,664	1,808	2,068	2,395	2,560	2,536	2,247	1,672	1,347	1,291
Critical (15%)	1,438	1,433	1,438	1,514	1,623	1,771	1,756	1,702	1,510	1,246	1,118	1,046

Alternative 5A (ELT) minus Existing Condition

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-796	-567	-199	-167	-68	-53	-30	0	0	-433	-578	-751
20%	-607	-602	-283	-81	-67	-13	-36	0	-122	-264	-374	-620
30%	-531	-545	-458	-5	-53	-28	-10	-35	-272	-323	-406	-471
40%	-379	-440	-396	-217	0	-17	-2	-121	-271	-321	-394	-395
50%	-416	-442	-442	-425	-67	-53	-44	-195	-272	-383	-357	-454
60%	-267	-367	-365	-255	-279	-81	-71	-118	-313	-362	-335	-287
70%	-158	-114	-54	-230	-115	-83	-153	-75	-206	-296	-181	-69
80%	-4	-14	-38	5	-104	-229	-349	-437	-452	-312	-131	-2
90%	-13	-41	-16	-9	26	-31	86	-217	-283	-20	45	39
Long Term												
Full Simulation Period[a]	-329	-313	-232	-146	-67	-51	-66	-110	-203	-254	-281	-330
Water Year Types[b]												
Wet (32%)	-428	-383	-160	-43	10	2	-5	-26	-111	-280	-409	-597
Above Normal (15%)	-245	-249	-233	-80	51	10	-4	-63	-198	-307	-422	-535
Below Normal (17%)	-448	-441	-437	-350	-166	-76	-87	-153	-303	-374	-398	-328
Dry (22%)	-276	-270	-250	-201	-158	-125	-153	-220	-308	-306	-161	-70
Critical (15%)	-136	-143	-119	-118	-98	-87	-101	-123	-133	72	96	62

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-42-5. Lake Oroville, End of Month Storage

No Action Alternative (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,347	2,452	2,788	2,813	2,961	3,059	3,354	3,538	3,538	3,039	2,802	2,285
20%	1,971	2,068	2,435	2,788	2,804	2,994	3,303	3,538	3,535	2,939	2,540	2,062
30%	1,861	1,935	2,205	2,575	2,788	2,944	3,276	3,504	3,390	2,763	2,366	1,958
40%	1,704	1,833	1,961	2,396	2,781	2,830	3,218	3,387	3,196	2,540	2,137	1,737
50%	1,535	1,545	1,782	2,073	2,562	2,788	3,123	3,196	2,969	2,337	1,949	1,639
60%	1,373	1,448	1,621	1,825	2,305	2,652	2,831	2,935	2,746	2,152	1,739	1,454
70%	1,146	1,234	1,404	1,573	1,920	2,313	2,647	2,601	2,340	1,697	1,301	1,168
80%	1,005	1,067	1,222	1,469	1,738	2,008	2,173	2,278	2,053	1,484	1,111	1,041
90%	854	866	1,006	1,217	1,420	1,681	1,853	1,776	1,571	1,033	951	915
Long Term												
Full Simulation Period[a]	1,557	1,629	1,830	2,079	2,343	2,551	2,811	2,907	2,758	2,226	1,886	1,618
Water Year Types[b]												
Wet (32%)	1,786	1,925	2,352	2,666	2,878	2,945	3,298	3,488	3,442	2,959	2,643	2,175
Above Normal (15%)	1,575	1,677	1,825	2,259	2,660	2,945	3,292	3,438	3,288	2,666	2,232	1,824
Below Normal (17%)	1,540	1,560	1,647	1,904	2,286	2,567	2,930	3,089	2,911	2,305	1,891	1,682
Dry (22%)	1,367	1,410	1,515	1,649	1,912	2,251	2,417	2,401	2,156	1,584	1,196	1,111
Critical (15%)	1,345	1,348	1,390	1,476	1,584	1,738	1,726	1,667	1,470	1,066	931	889

Alternative 2D (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,343	2,447	2,788	2,844	2,952	3,059	3,365	3,538	3,538	3,092	2,798	2,476
20%	2,106	2,222	2,541	2,788	2,845	2,994	3,315	3,538	3,370	2,856	2,466	2,162
30%	1,869	2,007	2,272	2,762	2,788	2,944	3,280	3,481	3,034	2,465	2,163	1,912
40%	1,631	1,765	2,072	2,534	2,788	2,844	3,218	3,377	2,889	2,289	1,962	1,740
50%	1,518	1,540	1,826	2,129	2,628	2,788	3,172	3,113	2,681	2,173	1,846	1,586
60%	1,427	1,443	1,586	1,831	2,304	2,730	2,996	2,956	2,562	2,013	1,680	1,519
70%	1,278	1,286	1,467	1,653	2,026	2,431	2,598	2,662	2,307	1,828	1,558	1,349
80%	1,161	1,195	1,258	1,525	1,766	2,025	2,257	2,171	2,018	1,526	1,224	1,192
90%	1,048	1,074	1,117	1,369	1,532	1,730	1,799	1,721	1,552	1,353	1,116	1,087
Long Term												
Full Simulation Period[a]	1,623	1,689	1,890	2,146	2,380	2,585	2,841	2,913	2,641	2,186	1,896	1,691
Water Year Types[b]												
Wet (32%)	1,804	1,935	2,379	2,688	2,866	2,945	3,298	3,476	3,300	2,875	2,604	2,242
Above Normal (15%)	1,706	1,803	1,957	2,408	2,694	2,947	3,294	3,377	3,009	2,395	2,018	1,698
Below Normal (17%)	1,563	1,583	1,677	1,950	2,318	2,621	2,984	3,104	2,687	2,131	1,768	1,653
Dry (22%)	1,475	1,514	1,599	1,742	2,005	2,328	2,479	2,439	2,143	1,699	1,417	1,342
Critical (15%)	1,435	1,427	1,448	1,547	1,646	1,788	1,770	1,717	1,536	1,282	1,108	1,054

Alternative 2D (ELT) minus No Action Alternative (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-4	-5	0	31	-9	0	11	0	0	53	-4	191
20%	135	153	105	0	41	0	12	0	-165	-83	-74	100
30%	8	72	68	186	0	0	3	-22	-356	-298	-204	-46
40%	-73	-68	111	138	7	13	0	-9	-307	-251	-175	4
50%	-18	-5	44	56	67	0	49	-83	-288	-164	-103	-53
60%	54	-4	-34	6	-1	78	165	22	-184	-139	-59	65
70%	133	52	62	79	106	118	-48	61	-33	131	257	180
80%	156	128	36	56	28	17	84	-107	-35	42	113	151
90%	194	208	111	152	112	49	-54	-54	-19	319	165	171
Long Term												
Full Simulation Period[a]	66	60	60	67	36	34	30	5	-118	-40	10	73
Water Year Types[b]												
Wet (32%)	18	10	28	22	-12	0	0	-12	-142	-85	-39	68
Above Normal (15%)	131	126	132	149	34	2	2	-61	-279	-272	-214	-125
Below Normal (17%)	23	22	30	46	32	54	54	14	-225	-174	-123	-29
Dry (22%)	108	104	84	93	93	77	63	38	-13	115	221	231
Critical (15%)	90	79	59	70	62	51	44	50	66	215	178	165

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-42-6. Lake Oroville, End of Month Storage

No Action Alternative (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,347	2,452	2,788	2,813	2,961	3,059	3,354	3,538	3,538	3,039	2,802	2,285
20%	1,971	2,068	2,435	2,788	2,804	2,994	3,303	3,538	3,535	2,939	2,540	2,062
30%	1,861	1,935	2,205	2,575	2,788	2,944	3,276	3,504	3,390	2,763	2,366	1,958
40%	1,704	1,833	1,961	2,396	2,781	2,830	3,218	3,387	3,196	2,540	2,137	1,737
50%	1,535	1,545	1,782	2,073	2,562	2,788	3,123	3,196	2,969	2,337	1,949	1,639
60%	1,373	1,448	1,621	1,825	2,305	2,652	2,831	2,935	2,746	2,152	1,739	1,454
70%	1,146	1,234	1,404	1,573	1,920	2,313	2,647	2,601	2,340	1,697	1,301	1,168
80%	1,005	1,067	1,222	1,469	1,738	2,008	2,173	2,278	2,053	1,484	1,111	1,041
90%	854	866	1,006	1,217	1,420	1,681	1,853	1,776	1,571	1,033	951	915
Long Term												
Full Simulation Period[a]	1,557	1,629	1,830	2,079	2,343	2,551	2,811	2,907	2,758	2,226	1,886	1,618
Water Year Types[b]												
Wet (32%)	1,786	1,925	2,352	2,666	2,878	2,945	3,298	3,488	3,442	2,959	2,643	2,175
Above Normal (15%)	1,575	1,677	1,825	2,259	2,660	2,945	3,292	3,438	3,288	2,666	2,232	1,824
Below Normal (17%)	1,540	1,560	1,647	1,904	2,286	2,567	2,930	3,089	2,911	2,305	1,891	1,682
Dry (22%)	1,367	1,410	1,515	1,649	1,912	2,251	2,417	2,401	2,156	1,584	1,196	1,111
Critical (15%)	1,345	1,348	1,390	1,476	1,584	1,738	1,726	1,667	1,470	1,066	931	889

Alternative 4A (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,310	2,389	2,788	2,843	2,987	3,063	3,365	3,538	3,538	2,989	2,683	2,305
20%	2,068	2,224	2,599	2,788	2,886	2,998	3,316	3,538	3,498	2,891	2,505	2,156
30%	1,880	1,917	2,322	2,781	2,801	2,953	3,283	3,503	3,226	2,635	2,268	1,898
40%	1,667	1,823	2,089	2,540	2,788	2,890	3,228	3,399	3,050	2,408	2,030	1,764
50%	1,558	1,607	1,810	2,135	2,638	2,788	3,150	3,187	2,887	2,307	1,898	1,666
60%	1,413	1,478	1,582	1,803	2,190	2,633	2,904	3,025	2,605	1,978	1,691	1,487
70%	1,246	1,266	1,368	1,623	1,985	2,364	2,583	2,682	2,308	1,732	1,408	1,322
80%	1,134	1,178	1,213	1,435	1,738	1,971	2,068	2,175	1,952	1,390	1,154	1,100
90%	959	1,008	1,079	1,321	1,508	1,695	1,820	1,764	1,558	1,260	1,022	988
Long Term												
Full Simulation Period[a]	1,602	1,671	1,880	2,123	2,367	2,560	2,817	2,914	2,692	2,181	1,865	1,660
Water Year Types[b]												
Wet (32%)	1,861	1,997	2,455	2,727	2,895	2,945	3,298	3,488	3,380	2,888	2,579	2,209
Above Normal (15%)	1,620	1,717	1,896	2,367	2,692	2,947	3,294	3,442	3,173	2,538	2,088	1,753
Below Normal (17%)	1,530	1,549	1,634	1,909	2,309	2,586	2,943	3,102	2,793	2,189	1,828	1,718
Dry (22%)	1,412	1,457	1,541	1,667	1,932	2,261	2,422	2,405	2,095	1,554	1,256	1,199
Critical (15%)	1,393	1,381	1,415	1,506	1,620	1,758	1,742	1,686	1,500	1,222	1,052	1,000

Alternative 4A (ELT) minus No Action Alternative (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-37	-64	0	30	26	4	11	0	0	-51	-119	20
20%	97	156	163	0	82	5	13	0	-37	-48	-35	93
30%	19	-18	117	206	13	9	7	0	-164	-128	-98	-60
40%	-37	-10	128	144	7	59	10	12	-146	-132	-107	27
50%	23	62	28	62	76	0	27	-8	-82	-30	-51	27
60%	40	30	-39	-22	-115	-19	73	90	-141	-174	-48	33
70%	100	32	-37	49	65	51	-64	81	-32	35	107	154
80%	129	111	-9	-34	-1	-37	-105	-103	-101	-95	43	58
90%	105	142	72	104	88	14	-33	-11	-12	227	71	73
Long Term												
Full Simulation Period[a]	46	42	50	44	24	8	6	6	-66	-45	-21	42
Water Year Types[b]												
Wet (32%)	75	72	103	61	17	0	0	0	-63	-71	-64	35
Above Normal (15%)	44	40	71	109	32	2	2	4	-115	-129	-143	-71
Below Normal (17%)	-11	-11	-13	4	24	19	13	13	-119	-116	-63	36
Dry (22%)	46	47	26	17	20	9	5	4	-61	-30	60	88
Critical (15%)	49	32	26	30	36	20	16	19	30	156	121	111

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-42-7. Lake Oroville, End of Month Storage

No Action Alternative (ELT)

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,347	2,452	2,788	2,813	2,961	3,059	3,354	3,538	3,538	3,039	2,802	2,285
20%	1,971	2,068	2,435	2,788	2,804	2,994	3,303	3,538	3,535	2,939	2,540	2,062
30%	1,861	1,935	2,205	2,575	2,788	2,944	3,276	3,504	3,390	2,763	2,366	1,958
40%	1,704	1,833	1,961	2,396	2,781	2,830	3,218	3,387	3,196	2,540	2,137	1,737
50%	1,535	1,545	1,782	2,073	2,562	2,788	3,123	3,196	2,969	2,337	1,949	1,639
60%	1,373	1,448	1,621	1,825	2,305	2,652	2,831	2,935	2,746	2,152	1,739	1,454
70%	1,146	1,234	1,404	1,573	1,920	2,313	2,647	2,601	2,340	1,697	1,301	1,168
80%	1,005	1,067	1,222	1,469	1,738	2,008	2,173	2,278	2,053	1,484	1,111	1,041
90%	854	866	1,006	1,217	1,420	1,681	1,853	1,776	1,571	1,033	951	915
Long Term												
Full Simulation Period[a]	1,557	1,629	1,830	2,079	2,343	2,551	2,811	2,907	2,758	2,226	1,886	1,618
Water Year Types[b]												
Wet (32%)	1,786	1,925	2,352	2,666	2,878	2,945	3,298	3,488	3,442	2,959	2,643	2,175
Above Normal (15%)	1,575	1,677	1,825	2,259	2,660	2,945	3,292	3,438	3,288	2,666	2,232	1,824
Below Normal (17%)	1,540	1,560	1,647	1,904	2,286	2,567	2,930	3,089	2,911	2,305	1,891	1,682
Dry (22%)	1,367	1,410	1,515	1,649	1,912	2,251	2,417	2,401	2,156	1,584	1,196	1,111
Critical (15%)	1,345	1,348	1,390	1,476	1,584	1,738	1,726	1,667	1,470	1,066	931	889

Alternative 5A (ELT)

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,364	2,479	2,788	2,809	2,985	3,063	3,365	3,538	3,538	2,945	2,700	2,470
20%	2,171	2,274	2,529	2,788	2,879	3,012	3,316	3,538	3,416	2,773	2,488	2,211
30%	1,876	2,038	2,329	2,787	2,801	2,953	3,283	3,503	3,266	2,636	2,158	1,990
40%	1,790	1,851	2,164	2,571	2,788	2,920	3,236	3,399	3,109	2,468	2,006	1,845
50%	1,615	1,639	1,895	2,262	2,721	2,788	3,161	3,176	2,928	2,268	1,876	1,645
60%	1,422	1,425	1,639	1,962	2,309	2,707	3,028	3,061	2,712	2,060	1,675	1,541
70%	1,285	1,311	1,458	1,662	2,087	2,501	2,654	2,772	2,491	1,810	1,433	1,396
80%	1,152	1,206	1,254	1,495	1,788	2,019	2,213	2,229	2,015	1,573	1,247	1,191
90%	1,018	1,024	1,129	1,284	1,505	1,690	1,845	1,806	1,575	1,263	1,111	1,051
Long Term												
Full Simulation Period[a]	1,651	1,718	1,909	2,158	2,403	2,593	2,852	2,943	2,741	2,206	1,882	1,724
Water Year Types[b]												
Wet (32%)	1,852	1,983	2,415	2,717	2,899	2,945	3,298	3,481	3,376	2,866	2,577	2,302
Above Normal (15%)	1,677	1,773	1,920	2,379	2,712	2,947	3,294	3,435	3,199	2,542	2,062	1,839
Below Normal (17%)	1,579	1,598	1,678	1,935	2,317	2,597	2,958	3,111	2,860	2,203	1,779	1,690
Dry (22%)	1,542	1,582	1,664	1,808	2,068	2,395	2,560	2,536	2,247	1,672	1,347	1,291
Critical (15%)	1,438	1,433	1,438	1,514	1,623	1,771	1,756	1,702	1,510	1,246	1,118	1,046

Alternative 5A (ELT) minus No Action Alternative (ELT)

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	18	27	0	-4	24	4	11	0	0	-94	-102	185
20%	200	206	93	0	74	18	13	0	-119	-166	-52	149
30%	16	103	125	212	13	9	7	-1	-124	-127	-209	33
40%	86	18	203	175	7	90	17	12	-86	-72	-132	108
50%	80	94	113	189	160	0	39	-20	-41	-69	-73	6
60%	50	-23	19	138	4	55	197	127	-34	-92	-64	88
70%	139	77	54	88	168	188	8	171	151	113	132	227
80%	147	139	32	26	50	11	41	-50	-38	88	136	150
90%	164	158	123	67	85	9	-8	31	4	230	159	136
Long Term												
Full Simulation Period[a]	95	89	79	79	59	42	41	36	-17	-20	-4	106
Water Year Types[b]												
Wet (32%)	66	58	64	51	21	0	0	-6	-66	-93	-66	127
Above Normal (15%)	101	96	95	121	52	2	2	-3	-89	-125	-170	16
Below Normal (17%)	39	38	31	30	32	30	28	21	-51	-102	-112	8
Dry (22%)	176	172	149	159	155	143	143	135	91	87	151	179
Critical (15%)	94	84	49	37	39	33	30	35	40	180	188	157

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

C.43. Folsom Storage

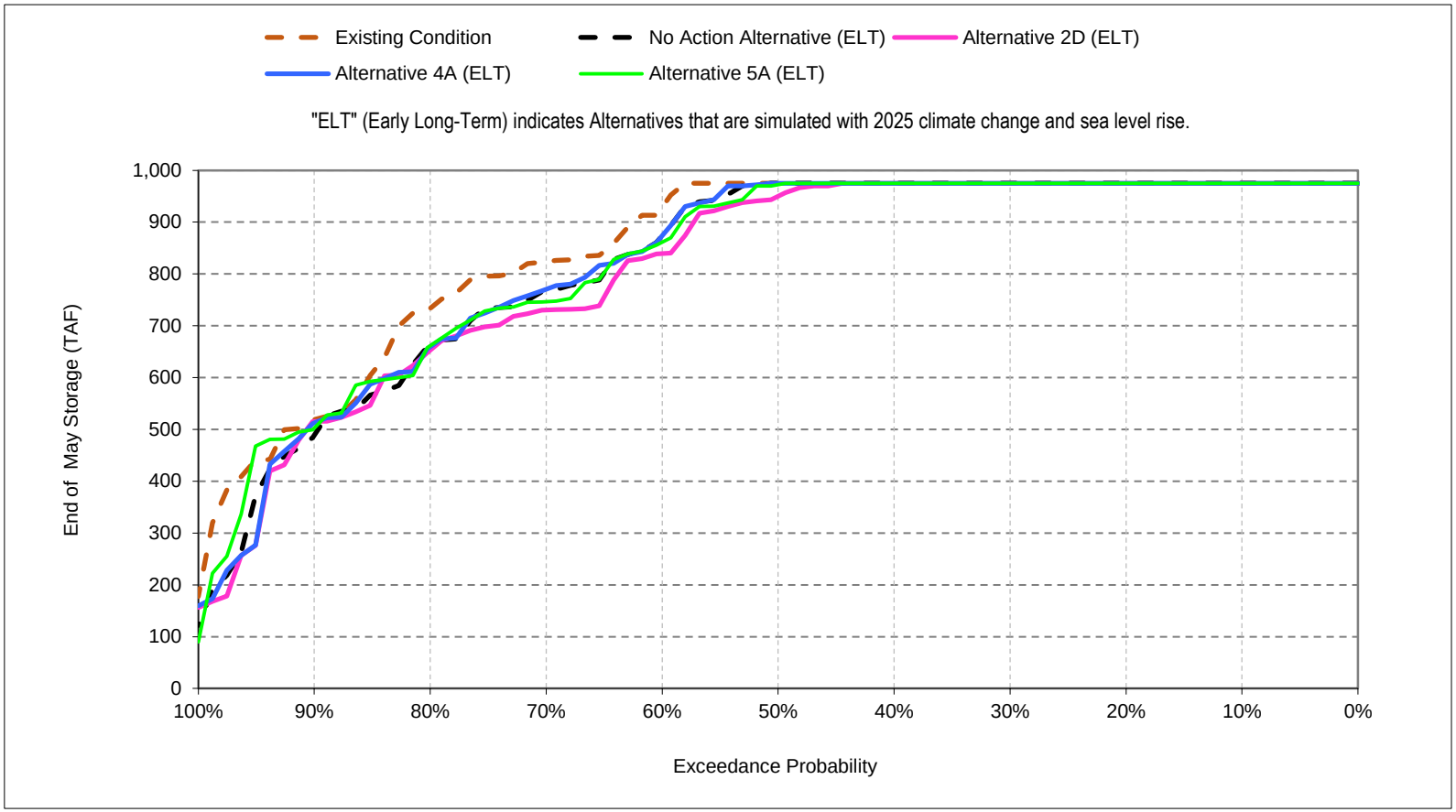


Figure C-43-1. Folsom Lake, End of May Storage

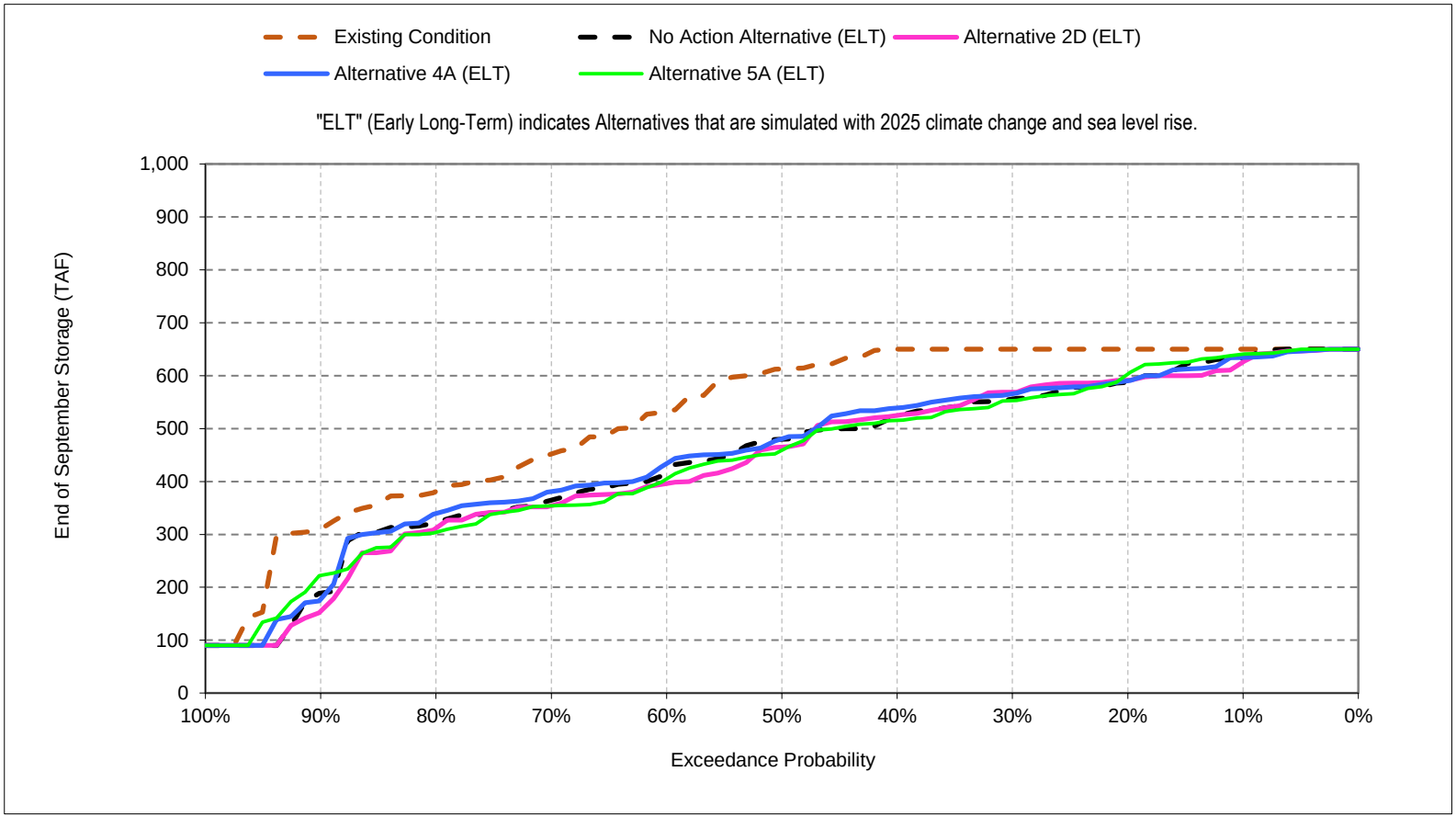


Figure C-43-2. Folsom Lake, End of September Storage

Table C-43-1. Folsom Lake, End of Month Storage

Existing Condition

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	652	575	575	575	575	672	800	975	975	950	800	650
20%	642	575	575	575	573	667	800	975	975	891	800	650
30%	632	575	571	570	563	659	800	975	975	807	767	650
40%	603	568	546	560	553	645	800	975	975	781	725	650
50%	583	544	516	521	536	634	800	975	975	751	659	613
60%	480	459	476	481	506	622	800	929	874	667	577	532
70%	411	420	404	431	467	601	755	824	743	554	476	452
80%	361	374	359	385	427	563	682	734	640	469	391	381
90%	301	297	285	318	359	465	498	519	499	376	326	310
Long Term												
Full Simulation Period[a]	505	467	468	479	494	598	727	850	823	684	600	525
Water Year Types[b]												
Wet (32%)	559	520	527	523	502	633	794	966	966	876	770	636
Above Normal (15%)	474	432	445	526	531	642	796	968	952	760	697	623
Below Normal (17%)	511	491	478	515	543	639	790	934	913	710	643	589
Dry (22%)	496	461	469	460	522	618	731	806	741	572	477	441
Critical (15%)	423	370	349	324	340	401	433	448	405	329	270	240

No Action Alternative (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	621	555	575	575	575	671	800	975	975	909	800	633
20%	553	508	575	571	574	667	800	975	975	838	752	587
30%	512	479	530	560	563	662	800	975	975	751	672	556
40%	471	448	469	533	558	652	800	975	968	700	605	523
50%	434	420	448	489	543	636	800	975	867	615	527	480
60%	375	401	400	444	484	623	800	874	766	528	480	419
70%	343	361	362	387	429	589	731	767	681	432	389	365
80%	314	308	317	347	403	522	613	662	557	383	336	322
90%	176	209	234	287	350	449	461	489	443	274	200	189
Long Term												
Full Simulation Period[a]	422	401	429	454	485	591	713	822	773	600	522	445
Water Year Types[b]												
Wet (32%)	470	454	517	519	505	633	789	957	948	809	715	557
Above Normal (15%)	400	359	396	504	534	648	796	955	901	657	588	504
Below Normal (17%)	439	422	427	479	543	640	785	920	871	628	543	499
Dry (22%)	398	391	411	414	491	593	696	746	638	464	399	375
Critical (15%)	355	317	302	296	319	383	408	397	352	260	202	186

No Action Alternative (ELT) minus Existing Condition

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-31	-20	0	0	0	-1	0	0	0	-41	0	-17
20%	-89	-67	0	-4	1	0	0	0	0	-53	-48	-63
30%	-120	-96	-41	-10	0	3	0	0	0	-56	-96	-94
40%	-133	-120	-77	-27	5	7	0	0	-7	-81	-120	-127
50%	-149	-123	-68	-32	7	2	0	0	-108	-136	-132	-133
60%	-105	-58	-76	-37	-22	1	0	-55	-108	-140	-96	-113
70%	-68	-59	-42	-45	-38	-12	-23	-57	-62	-122	-87	-87
80%	-47	-66	-42	-37	-23	-41	-69	-71	-83	-86	-54	-59
90%	-125	-88	-51	-31	-9	-16	-37	-31	-57	-102	-126	-121
Long Term												
Full Simulation Period[a]	-83	-67	-38	-25	-8	-7	-14	-28	-51	-84	-78	-80
Water Year Types[b]												
Wet (32%)	-88	-66	-10	-4	3	1	-4	-9	-18	-67	-55	-78
Above Normal (15%)	-75	-74	-48	-22	3	6	0	-13	-50	-103	-109	-118
Below Normal (17%)	-72	-69	-50	-36	0	1	-5	-14	-43	-82	-100	-90
Dry (22%)	-98	-70	-58	-46	-31	-25	-35	-60	-103	-108	-78	-66
Critical (15%)	-68	-53	-47	-28	-21	-18	-25	-51	-53	-69	-69	-54

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-43-2. Folsom Lake, End of Month Storage

Existing Condition

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	652	575	575	575	575	672	800	975	975	950	800	650
20%	642	575	575	575	573	667	800	975	975	891	800	650
30%	632	575	571	570	563	659	800	975	975	807	767	650
40%	603	568	546	560	553	645	800	975	975	781	725	650
50%	583	544	516	521	536	634	800	975	975	751	659	613
60%	480	459	476	481	506	622	800	929	874	667	577	532
70%	411	420	404	431	467	601	755	824	743	554	476	452
80%	361	374	359	385	427	563	682	734	640	469	391	381
90%	301	297	285	318	359	465	498	519	499	376	326	310
Long Term												
Full Simulation Period[a]	505	467	468	479	494	598	727	850	823	684	600	525
Water Year Types[b]												
Wet (32%)	559	520	527	523	502	633	794	966	966	876	770	636
Above Normal (15%)	474	432	445	526	531	642	796	968	952	760	697	623
Below Normal (17%)	511	491	478	515	543	639	790	934	913	710	643	589
Dry (22%)	496	461	469	460	522	618	731	806	741	572	477	441
Critical (15%)	423	370	349	324	340	401	433	448	405	329	270	240

Alternative 2D (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	600	571	575	575	575	671	800	975	975	867	765	626
20%	567	547	575	572	575	667	800	975	975	806	718	591
30%	537	521	540	561	566	662	800	975	959	718	609	569
40%	469	481	508	549	560	652	800	975	867	617	577	525
50%	416	412	469	512	546	637	800	950	784	556	514	465
60%	358	376	413	468	485	626	800	840	716	484	431	396
70%	325	343	344	405	440	591	732	730	600	421	390	354
80%	292	311	309	319	408	529	615	653	534	358	309	312
90%	159	198	240	271	353	467	471	515	423	253	170	154
Long Term												
Full Simulation Period[a]	414	407	433	461	487	592	712	812	735	557	494	438
Water Year Types[b]												
Wet (32%)	455	465	520	521	505	634	790	952	924	774	691	569
Above Normal (15%)	391	373	415	524	537	648	796	938	846	606	549	497
Below Normal (17%)	427	425	425	489	545	642	786	902	808	561	490	474
Dry (22%)	392	385	408	417	496	597	696	737	590	412	370	347
Critical (15%)	365	328	309	299	319	383	398	387	344	250	205	189

Alternative 2D (ELT) minus Existing Condition

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-52	-4	0	0	0	-1	0	0	0	-83	-35	-24
20%	-75	-28	0	-3	2	0	0	0	0	-85	-82	-59
30%	-95	-54	-30	-9	3	3	0	0	-16	-88	-158	-81
40%	-134	-87	-38	-11	6	7	0	0	-108	-163	-148	-125
50%	-167	-132	-47	-9	9	3	0	-25	-191	-195	-145	-148
60%	-123	-83	-63	-13	-22	4	0	-89	-158	-183	-146	-136
70%	-85	-77	-59	-26	-26	-11	-23	-93	-143	-133	-86	-98
80%	-70	-63	-50	-65	-19	-34	-67	-81	-105	-112	-82	-69
90%	-142	-99	-45	-47	-6	2	-27	-4	-76	-123	-156	-156
Long Term												
Full Simulation Period[a]	-91	-60	-34	-18	-7	-6	-15	-38	-89	-127	-106	-87
Water Year Types[b]												
Wet (32%)	-104	-55	-7	-1	3	1	-4	-14	-42	-102	-79	-67
Above Normal (15%)	-83	-59	-30	-2	6	6	0	-30	-106	-154	-148	-126
Below Normal (17%)	-84	-65	-53	-26	2	3	-4	-32	-105	-149	-153	-115
Dry (22%)	-104	-76	-60	-43	-26	-22	-35	-69	-151	-159	-107	-94
Critical (15%)	-58	-42	-40	-25	-21	-18	-35	-61	-61	-78	-65	-51

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-43-3. Folsom Lake, End of Month Storage

Existing Condition

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	652	575	575	575	575	672	800	975	975	950	800	650
20%	642	575	575	575	573	667	800	975	975	891	800	650
30%	632	575	571	570	563	659	800	975	975	807	767	650
40%	603	568	546	560	553	645	800	975	975	781	725	650
50%	583	544	516	521	536	634	800	975	975	751	659	613
60%	480	459	476	481	506	622	800	929	874	667	577	532
70%	411	420	404	431	467	601	755	824	743	554	476	452
80%	361	374	359	385	427	563	682	734	640	469	391	381
90%	301	297	285	318	359	465	498	519	499	376	326	310
Long Term												
Full Simulation Period[a]	505	467	468	479	494	598	727	850	823	684	600	525
Water Year Types[b]												
Wet (32%)	559	520	527	523	502	633	794	966	966	876	770	636
Above Normal (15%)	474	432	445	526	531	642	796	968	952	760	697	623
Below Normal (17%)	511	491	478	515	543	639	790	934	913	710	643	589
Dry (22%)	496	461	469	460	522	618	731	806	741	572	477	441
Critical (15%)	423	370	349	324	340	401	433	448	405	329	270	240

Alternative 4A (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	600	569	575	575	575	670	800	975	975	855	800	634
20%	576	539	575	574	575	667	800	975	975	819	753	590
30%	506	506	553	565	566	662	800	975	973	738	645	566
40%	473	469	508	546	560	655	800	975	885	642	591	539
50%	426	423	460	514	546	637	800	975	796	592	544	480
60%	389	397	412	451	484	625	800	874	755	526	472	434
70%	344	371	363	407	448	591	746	770	637	449	395	381
80%	314	311	332	333	407	537	626	659	536	377	347	340
90%	170	219	236	254	354	469	473	512	423	268	211	177
Long Term												
Full Simulation Period[a]	421	412	437	460	487	593	715	824	746	581	519	452
Water Year Types[b]												
Wet (32%)	465	470	524	522	505	633	790	957	926	782	705	561
Above Normal (15%)	406	384	422	521	538	648	796	955	882	648	586	507
Below Normal (17%)	430	426	428	487	545	643	787	922	811	600	532	513
Dry (22%)	398	391	414	416	497	599	704	751	607	448	399	376
Critical (15%)	367	329	309	299	318	382	407	396	349	256	217	203

Alternative 4A (ELT) minus Existing Condition

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-52	-6	0	0	0	-2	0	0	0	-95	0	-16
20%	-66	-36	0	-1	2	0	0	0	0	-72	-47	-60
30%	-126	-69	-18	-5	3	3	0	0	-2	-68	-123	-84
40%	-131	-100	-38	-14	6	10	0	0	-90	-139	-134	-111
50%	-157	-120	-56	-7	10	3	0	0	-179	-160	-115	-132
60%	-91	-62	-64	-30	-22	2	0	-55	-119	-141	-105	-99
70%	-67	-49	-40	-24	-19	-11	-9	-53	-107	-105	-81	-71
80%	-48	-62	-27	-52	-19	-26	-56	-74	-103	-92	-44	-42
90%	-131	-78	-49	-64	-6	4	-25	-7	-76	-108	-115	-133
Long Term												
Full Simulation Period[a]	-83	-55	-30	-19	-6	-5	-11	-26	-78	-103	-81	-73
Water Year Types[b]												
Wet (32%)	-94	-50	-3	-1	3	1	-4	-9	-40	-95	-65	-75
Above Normal (15%)	-68	-48	-22	-5	7	6	0	-13	-70	-112	-112	-115
Below Normal (17%)	-81	-65	-49	-28	2	3	-2	-11	-102	-111	-111	-76
Dry (22%)	-98	-70	-54	-44	-25	-19	-26	-54	-134	-123	-78	-66
Critical (15%)	-56	-41	-40	-25	-22	-20	-26	-52	-56	-73	-54	-36

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-43-4. Folsom Lake, End of Month Storage

Existing Condition

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	652	575	575	575	575	672	800	975	975	950	800	650
20%	642	575	575	575	573	667	800	975	975	891	800	650
30%	632	575	571	570	563	659	800	975	975	807	767	650
40%	603	568	546	560	553	645	800	975	975	781	725	650
50%	583	544	516	521	536	634	800	975	975	751	659	613
60%	480	459	476	481	506	622	800	929	874	667	577	532
70%	411	420	404	431	467	601	755	824	743	554	476	452
80%	361	374	359	385	427	563	682	734	640	469	391	381
90%	301	297	285	318	359	465	498	519	499	376	326	310
Long Term												
Full Simulation Period[a]	505	467	468	479	494	598	727	850	823	684	600	525
Water Year Types[b]												
Wet (32%)	559	520	527	523	502	633	794	966	966	876	770	636
Above Normal (15%)	474	432	445	526	531	642	796	968	952	760	697	623
Below Normal (17%)	511	491	478	515	543	639	790	934	913	710	643	589
Dry (22%)	496	461	469	460	522	618	731	806	741	572	477	441
Critical (15%)	423	370	349	324	340	401	433	448	405	329	270	240

Alternative 5A (ELT)

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	614	574	575	575	575	671	800	975	975	872	786	641
20%	564	544	575	571	574	667	800	975	975	793	697	603
30%	525	510	537	558	564	662	800	975	971	727	638	553
40%	481	475	502	543	559	653	800	975	876	671	582	516
50%	432	428	472	499	540	638	800	973	788	560	506	459
60%	373	394	434	455	484	623	800	861	731	479	425	405
70%	321	363	373	424	438	591	731	747	636	402	364	354
80%	294	297	325	358	410	543	616	661	543	362	330	304
90%	211	213	235	295	362	490	478	502	452	286	234	223
Long Term												
Full Simulation Period[a]	420	411	438	462	490	596	718	825	750	567	500	441
Water Year Types[b]												
Wet (32%)	458	464	520	520	505	634	790	955	933	774	682	560
Above Normal (15%)	392	365	406	514	537	648	796	952	872	608	548	489
Below Normal (17%)	442	435	438	490	544	641	786	914	812	591	519	499
Dry (22%)	398	396	418	418	494	600	702	748	612	416	370	348
Critical (15%)	374	335	322	315	340	406	429	429	364	277	226	206

Alternative 5A (ELT) minus Existing Condition

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-37	-1	0	0	0	-1	0	0	0	-78	-14	-9
20%	-78	-31	0	-4	1	0	0	0	0	-98	-103	-47
30%	-107	-65	-33	-12	2	3	0	0	-4	-80	-129	-97
40%	-123	-93	-44	-17	6	8	0	0	-99	-110	-143	-134
50%	-151	-116	-45	-22	4	4	0	-2	-187	-191	-153	-154
60%	-108	-65	-42	-26	-22	1	0	-68	-143	-188	-151	-127
70%	-90	-57	-30	-7	-28	-11	-24	-77	-107	-152	-112	-98
80%	-67	-77	-34	-27	-16	-20	-66	-72	-96	-108	-61	-77
90%	-90	-83	-50	-23	3	25	-20	-17	-47	-89	-92	-87
Long Term												
Full Simulation Period[a]	-84	-56	-30	-17	-4	-2	-9	-25	-73	-117	-101	-84
Water Year Types[b]												
Wet (32%)	-101	-55	-7	-3	3	1	-4	-11	-33	-103	-88	-75
Above Normal (15%)	-82	-67	-39	-12	6	6	0	-16	-80	-151	-149	-134
Below Normal (17%)	-69	-55	-40	-25	1	2	-4	-20	-101	-119	-124	-90
Dry (22%)	-98	-65	-51	-42	-28	-18	-29	-58	-129	-156	-107	-94
Critical (15%)	-49	-35	-27	-8	0	5	-4	-19	-41	-52	-45	-34

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-43-5. Folsom Lake, End of Month Storage

No Action Alternative (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	621	555	575	575	575	671	800	975	975	909	800	633
20%	553	508	575	571	574	667	800	975	975	838	752	587
30%	512	479	530	560	563	662	800	975	975	751	672	556
40%	471	448	469	533	558	652	800	975	968	700	605	523
50%	434	420	448	489	543	636	800	975	867	615	527	480
60%	375	401	400	444	484	623	800	874	766	528	480	419
70%	343	361	362	387	429	589	731	767	681	432	389	365
80%	314	308	317	347	403	522	613	662	557	383	336	322
90%	176	209	234	287	350	449	461	489	443	274	200	189
Long Term												
Full Simulation Period[a]	422	401	429	454	485	591	713	822	773	600	522	445
Water Year Types[b]												
Wet (32%)	470	454	517	519	505	633	789	957	948	809	715	557
Above Normal (15%)	400	359	396	504	534	648	796	955	901	657	588	504
Below Normal (17%)	439	422	427	479	543	640	785	920	871	628	543	499
Dry (22%)	398	391	411	414	491	593	696	746	638	464	399	375
Critical (15%)	355	317	302	296	319	383	408	397	352	260	202	186

Alternative 2D (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	600	571	575	575	575	671	800	975	975	867	765	626
20%	567	547	575	572	575	667	800	975	975	806	718	591
30%	537	521	540	561	566	662	800	975	959	718	609	569
40%	469	481	508	549	560	652	800	975	867	617	577	525
50%	416	412	469	512	546	637	800	950	784	556	514	465
60%	358	376	413	468	485	626	800	840	716	484	431	396
70%	325	343	344	405	440	591	732	730	600	421	390	354
80%	292	311	309	319	408	529	615	653	534	358	309	312
90%	159	198	240	271	353	467	471	515	423	253	170	154
Long Term												
Full Simulation Period[a]	414	407	433	461	487	592	712	812	735	557	494	438
Water Year Types[b]												
Wet (32%)	455	465	520	521	505	634	790	952	924	774	691	569
Above Normal (15%)	391	373	415	524	537	648	796	938	846	606	549	497
Below Normal (17%)	427	425	425	489	545	642	786	902	808	561	490	474
Dry (22%)	392	385	408	417	496	597	696	737	590	412	370	347
Critical (15%)	365	328	309	299	319	383	398	387	344	250	205	189

Alternative 2D (ELT) minus No Action Alternative (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-21	16	0	0	0	0	0	0	0	-42	-35	-7
20%	14	39	0	1	1	0	0	0	0	-31	-34	4
30%	25	42	10	1	3	0	0	0	-16	-32	-62	13
40%	-1	33	39	15	1	0	0	0	-101	-82	-28	2
50%	-18	-8	21	23	3	1	0	-25	-83	-59	-13	-15
60%	-18	-25	13	24	1	3	0	-34	-50	-43	-49	-23
70%	-17	-17	-17	18	11	1	1	-37	-81	-11	2	-10
80%	-22	3	-8	-28	5	7	2	-9	-22	-26	-28	-10
90%	-17	-11	6	-16	3	18	10	27	-19	-21	-31	-34
Long Term												
Full Simulation Period[a]	-8	6	4	6	2	1	-1	-10	-38	-43	-28	-7
Water Year Types[b]												
Wet (32%)	-16	11	3	2	0	0	0	-5	-24	-35	-24	11
Above Normal (15%)	-8	14	19	19	3	0	0	-16	-55	-51	-38	-8
Below Normal (17%)	-12	3	-2	10	2	2	1	-18	-63	-67	-53	-25
Dry (22%)	-7	-6	-2	3	5	4	0	-9	-47	-52	-29	-28
Critical (15%)	10	12	7	3	0	0	-10	-10	-7	-10	3	3

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-43-6. Folsom Lake, End of Month Storage

No Action Alternative (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	621	555	575	575	575	671	800	975	975	909	800	633
20%	553	508	575	571	574	667	800	975	975	838	752	587
30%	512	479	530	560	563	662	800	975	975	751	672	556
40%	471	448	469	533	558	652	800	975	968	700	605	523
50%	434	420	448	489	543	636	800	975	867	615	527	480
60%	375	401	400	444	484	623	800	874	766	528	480	419
70%	343	361	362	387	429	589	731	767	681	432	389	365
80%	314	308	317	347	403	522	613	662	557	383	336	322
90%	176	209	234	287	350	449	461	489	443	274	200	189
Long Term												
Full Simulation Period[a]	422	401	429	454	485	591	713	822	773	600	522	445
Water Year Types[b]												
Wet (32%)	470	454	517	519	505	633	789	957	948	809	715	557
Above Normal (15%)	400	359	396	504	534	648	796	955	901	657	588	504
Below Normal (17%)	439	422	427	479	543	640	785	920	871	628	543	499
Dry (22%)	398	391	411	414	491	593	696	746	638	464	399	375
Critical (15%)	355	317	302	296	319	383	408	397	352	260	202	186

Alternative 4A (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	600	569	575	575	575	670	800	975	975	855	800	634
20%	576	539	575	574	575	667	800	975	975	819	753	590
30%	506	506	553	565	566	662	800	975	973	738	645	566
40%	473	469	508	546	560	655	800	975	885	642	591	539
50%	426	423	460	514	546	637	800	975	796	592	544	480
60%	389	397	412	451	484	625	800	874	755	526	472	434
70%	344	371	363	407	448	591	746	770	637	449	395	381
80%	314	311	332	333	407	537	626	659	536	377	347	340
90%	170	219	236	254	354	469	473	512	423	268	211	177
Long Term												
Full Simulation Period[a]	421	412	437	460	487	593	715	824	746	581	519	452
Water Year Types[b]												
Wet (32%)	465	470	524	522	505	633	790	957	926	782	705	561
Above Normal (15%)	406	384	422	521	538	648	796	955	882	648	586	507
Below Normal (17%)	430	426	428	487	545	643	787	922	811	600	532	513
Dry (22%)	398	391	414	416	497	599	704	751	607	448	399	376
Critical (15%)	367	329	309	299	318	382	407	396	349	256	217	203

Alternative 4A (ELT) minus No Action Alternative (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-21	14	0	0	0	-1	0	0	0	-54	0	1
20%	24	32	0	3	1	0	0	0	0	-19	1	3
30%	-6	27	23	5	3	0	0	0	-2	-12	-27	10
40%	2	21	39	12	1	3	0	0	-83	-58	-14	16
50%	-8	3	12	25	3	2	0	0	-70	-23	17	1
60%	14	-3	12	7	0	1	0	0	-11	-1	-9	15
70%	1	11	2	20	19	1	15	3	-44	17	7	16
80%	0	4	15	-14	4	15	13	-3	-20	-6	10	17
90%	-6	10	2	-33	3	20	12	24	-19	-6	11	-12
Long Term												
Full Simulation Period[a]	-1	11	8	6	2	2	2	1	-27	-19	-3	7
Water Year Types[b]												
Wet (32%)	-6	16	7	3	0	0	0	0	-22	-27	-10	3
Above Normal (15%)	6	26	26	17	3	0	0	0	-19	-9	-2	3
Below Normal (17%)	-10	4	1	8	2	2	2	2	-59	-29	-11	14
Dry (22%)	0	0	3	2	6	6	9	6	-31	-15	0	1
Critical (15%)	12	12	7	3	-1	-1	-1	-1	-3	-4	15	18

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-43-7. Folsom Lake, End of Month Storage

No Action Alternative (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	621	555	575	575	575	671	800	975	975	909	800	633
20%	553	508	575	571	574	667	800	975	975	838	752	587
30%	512	479	530	560	563	662	800	975	975	751	672	556
40%	471	448	469	533	558	652	800	975	968	700	605	523
50%	434	420	448	489	543	636	800	975	867	615	527	480
60%	375	401	400	444	484	623	800	874	766	528	480	419
70%	343	361	362	387	429	589	731	767	681	432	389	365
80%	314	308	317	347	403	522	613	662	557	383	336	322
90%	176	209	234	287	350	449	461	489	443	274	200	189
Long Term												
Full Simulation Period[a]	422	401	429	454	485	591	713	822	773	600	522	445
Water Year Types[b]												
Wet (32%)	470	454	517	519	505	633	789	957	948	809	715	557
Above Normal (15%)	400	359	396	504	534	648	796	955	901	657	588	504
Below Normal (17%)	439	422	427	479	543	640	785	920	871	628	543	499
Dry (22%)	398	391	411	414	491	593	696	746	638	464	399	375
Critical (15%)	355	317	302	296	319	383	408	397	352	260	202	186

Alternative 5A (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	614	574	575	575	575	671	800	975	975	872	786	641
20%	564	544	575	571	574	667	800	975	975	793	697	603
30%	525	510	537	558	564	662	800	975	971	727	638	553
40%	481	475	502	543	559	653	800	975	876	671	582	516
50%	432	428	472	499	540	638	800	973	788	560	506	459
60%	373	394	434	455	484	623	800	861	731	479	425	405
70%	321	363	373	424	438	591	731	747	636	402	364	354
80%	294	297	325	358	410	543	616	661	543	362	330	304
90%	211	213	235	295	362	490	478	502	452	286	234	223
Long Term												
Full Simulation Period[a]	420	411	438	462	490	596	718	825	750	567	500	441
Water Year Types[b]												
Wet (32%)	458	464	520	520	505	634	790	955	933	774	682	560
Above Normal (15%)	392	365	406	514	537	648	796	952	872	608	548	489
Below Normal (17%)	442	435	438	490	544	641	786	914	812	591	519	499
Dry (22%)	398	396	418	418	494	600	702	748	612	416	370	348
Critical (15%)	374	335	322	315	340	406	429	429	364	277	226	206

Alternative 5A (ELT) minus No Action Alternative (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-6	19	0	0	0	0	0	0	0	-37	-14	8
20%	11	36	0	0	0	0	0	0	0	-45	-55	16
30%	12	31	7	-2	1	0	0	0	-4	-24	-34	-3
40%	10	27	33	9	1	1	0	0	-92	-29	-23	-7
50%	-2	8	24	9	-3	2	0	-2	-79	-55	-21	-21
60%	-2	-7	35	11	0	0	0	-13	-35	-48	-55	-14
70%	-22	2	12	37	9	1	0	-21	-45	-30	-25	-11
80%	-20	-11	8	10	7	21	3	-1	-13	-22	-6	-18
90%	34	5	1	8	12	41	17	14	10	12	34	34
Long Term												
Full Simulation Period[a]	-2	10	9	7	4	5	5	3	-23	-33	-23	-4
Water Year Types[b]												
Wet (32%)	-13	10	3	1	0	0	0	-2	-15	-35	-32	3
Above Normal (15%)	-8	7	10	10	2	0	0	-2	-30	-49	-40	-15
Below Normal (17%)	3	13	11	11	1	1	1	-6	-58	-37	-24	0
Dry (22%)	0	5	7	4	3	7	6	2	-26	-48	-29	-27
Critical (15%)	19	19	20	19	21	23	22	32	13	17	24	20

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

C.44. San Luis Storage

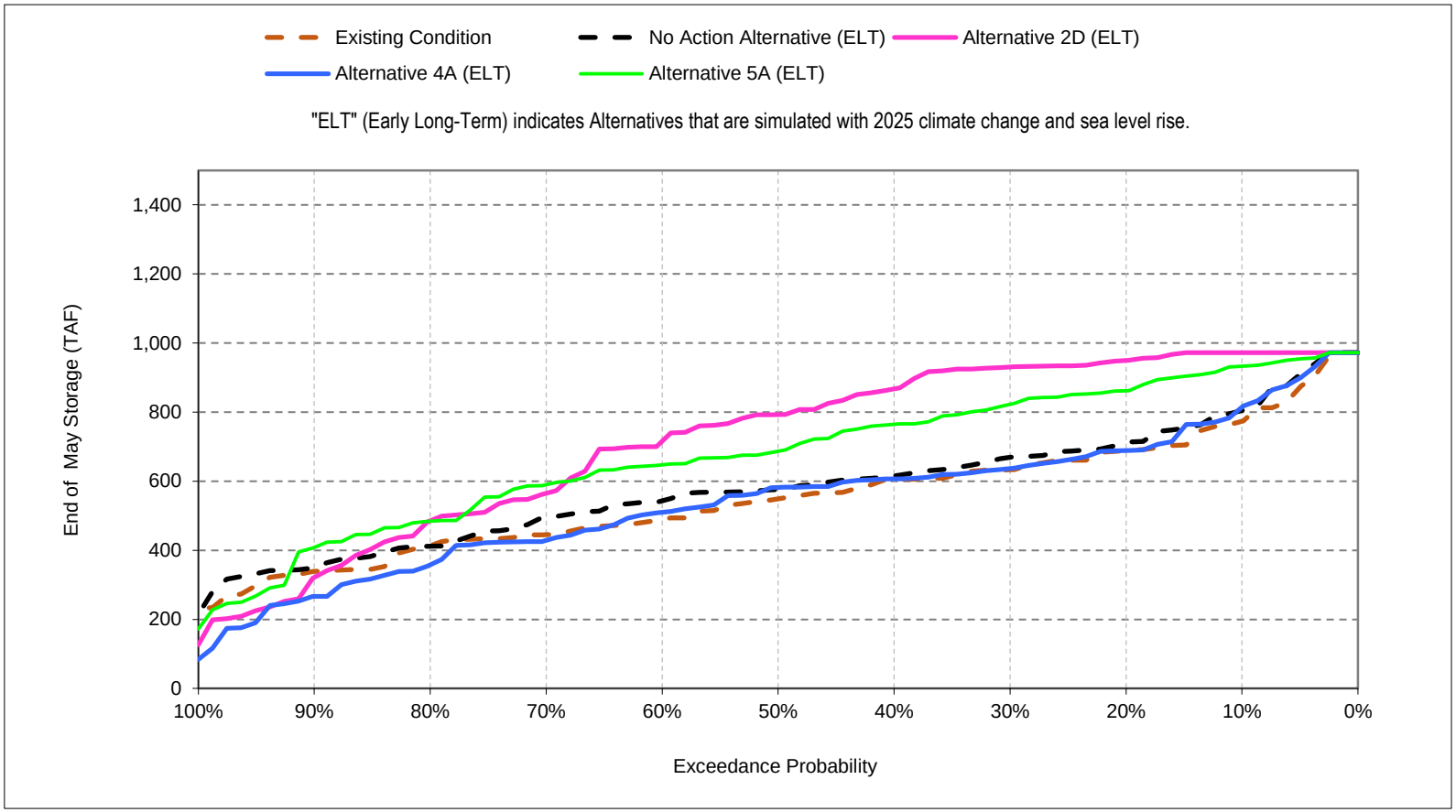


Figure C-44-5. San Luis Reservoir (CVP), End of May Storage

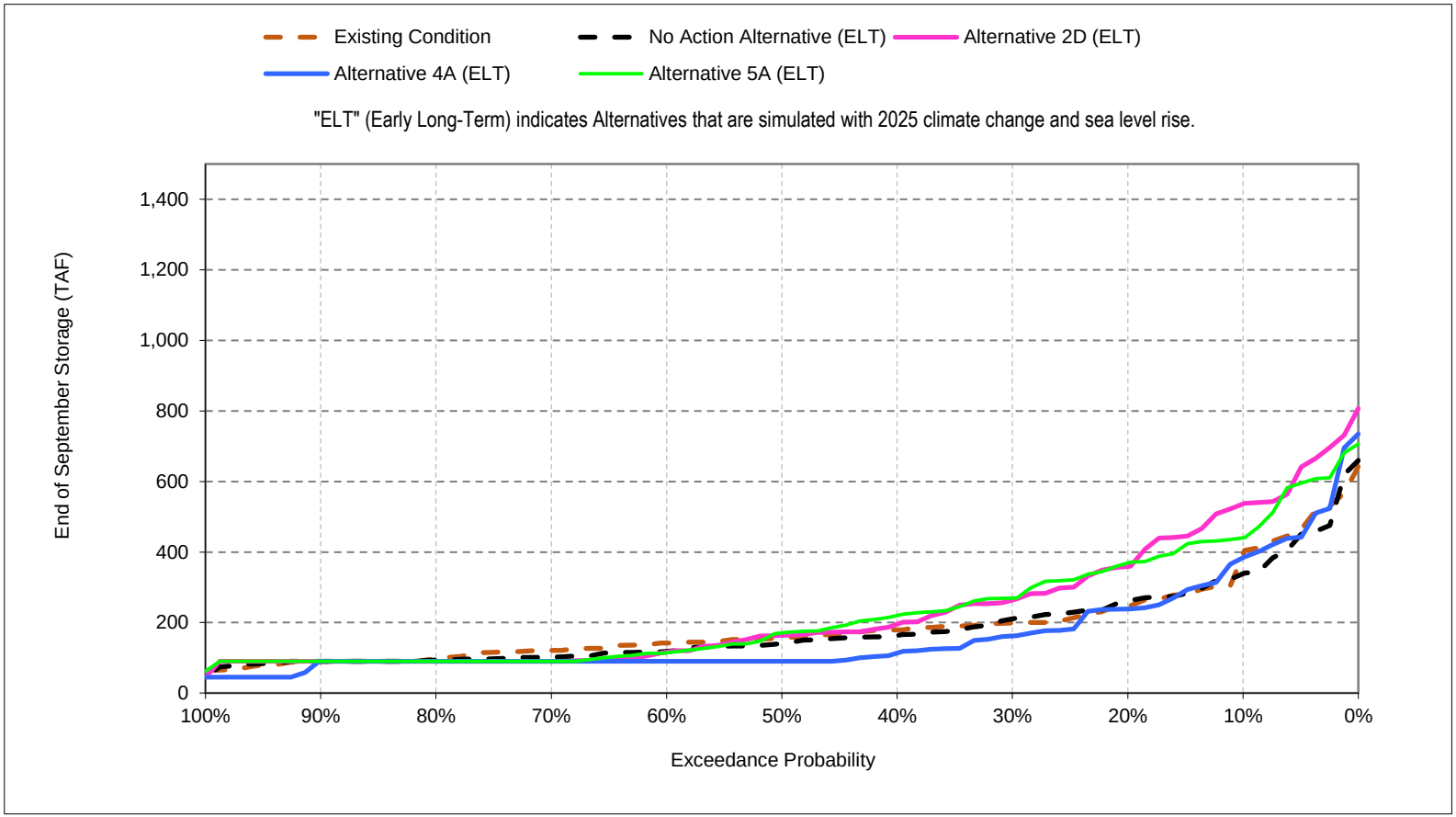


Figure C-44-6. San Luis Reservoir (CVP), End of September Storage

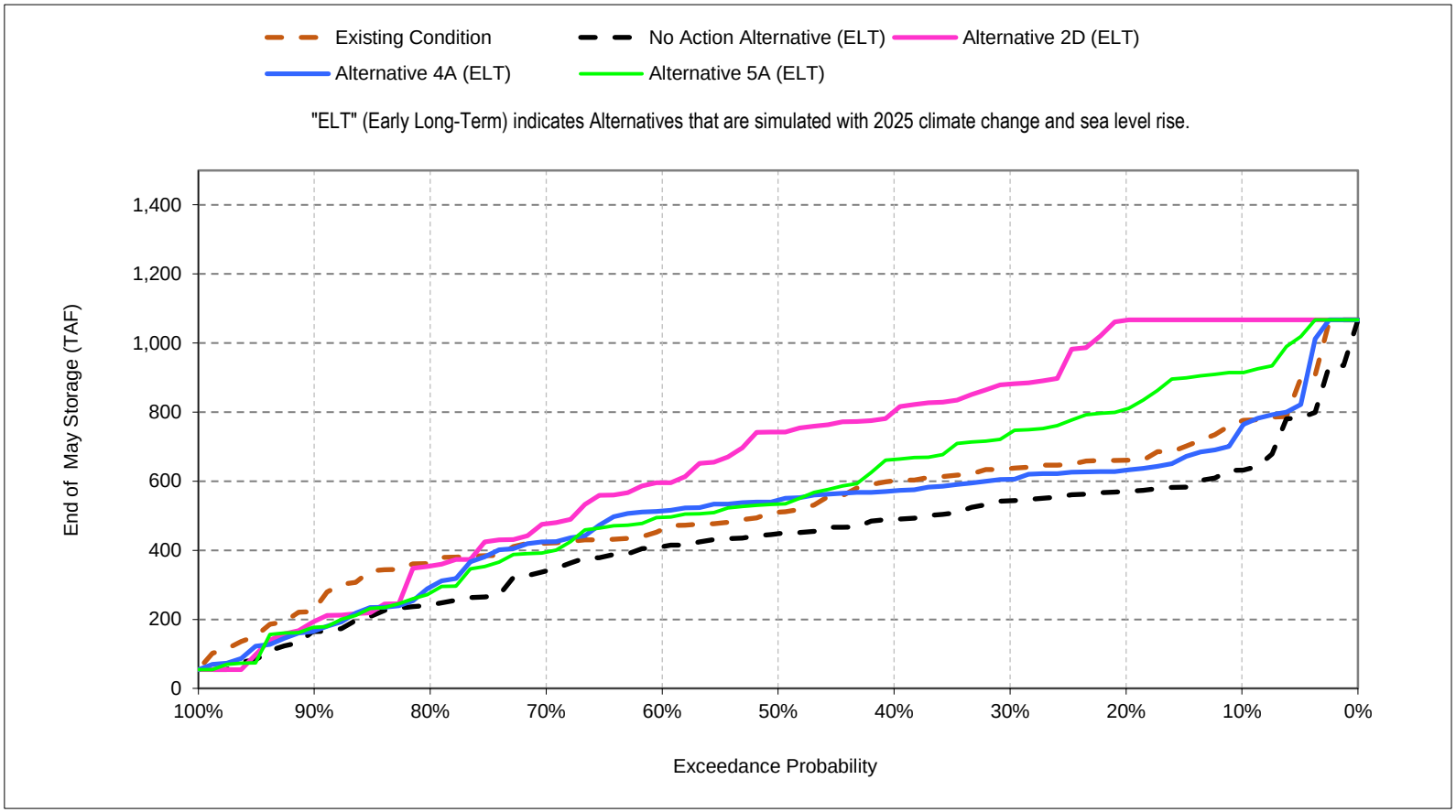


Figure C-44-5. San Luis Reservoir (SWP), End of May Storage

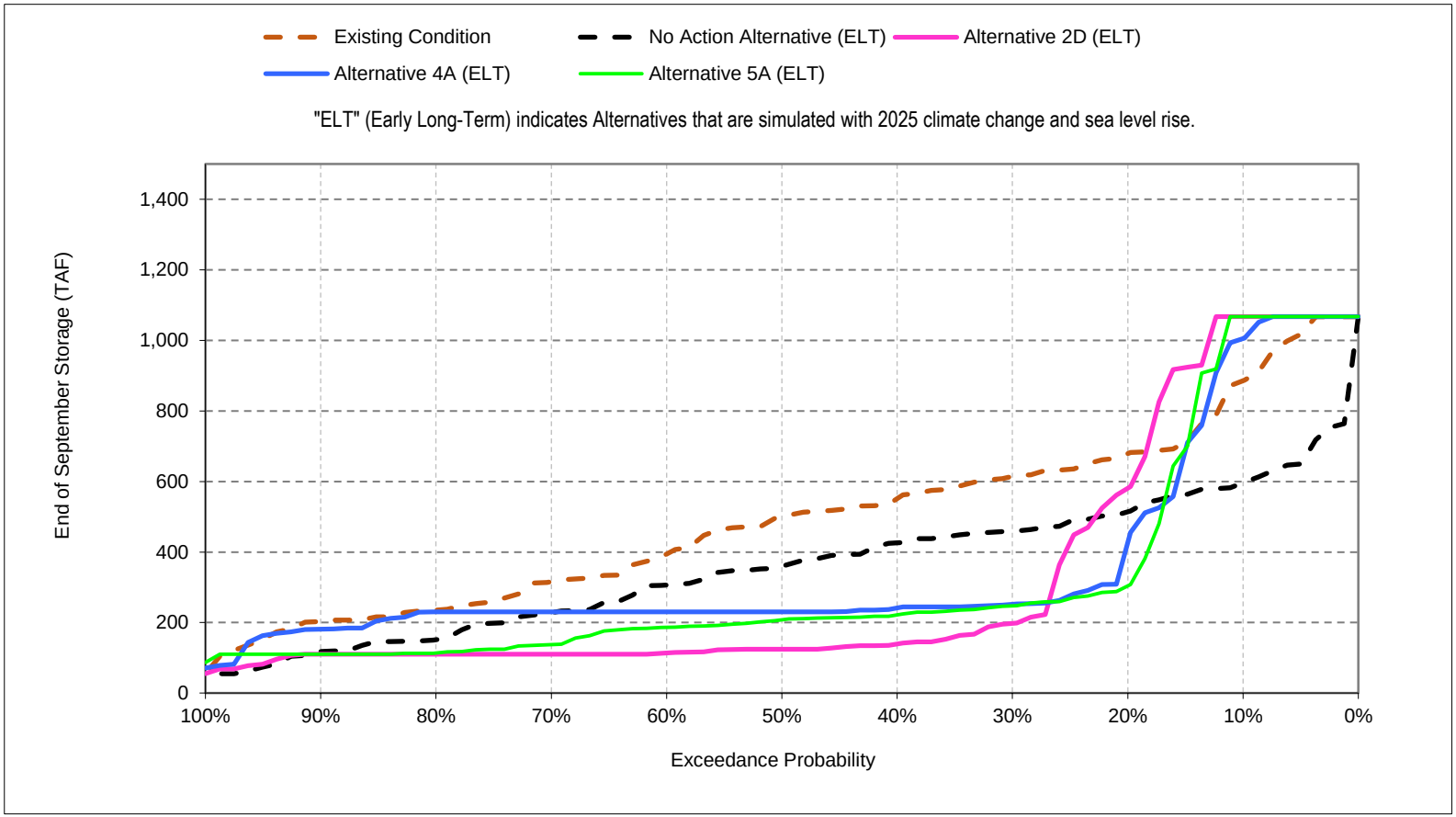


Figure C-44-6. San Luis Reservoir (SWP), End of September Storage

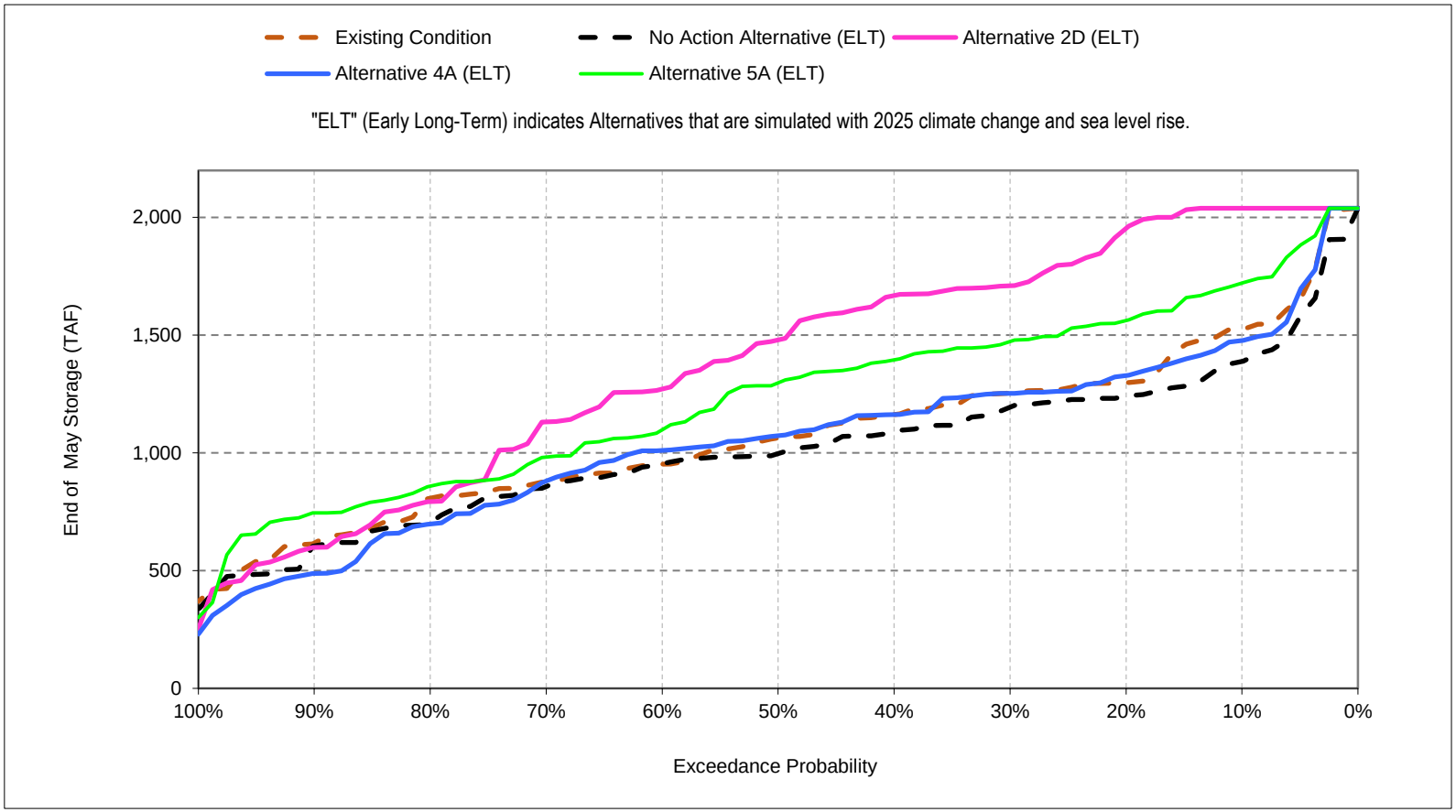


Figure C-44-1. San Luis Reservoir (SWP and CVP), End of May Storage

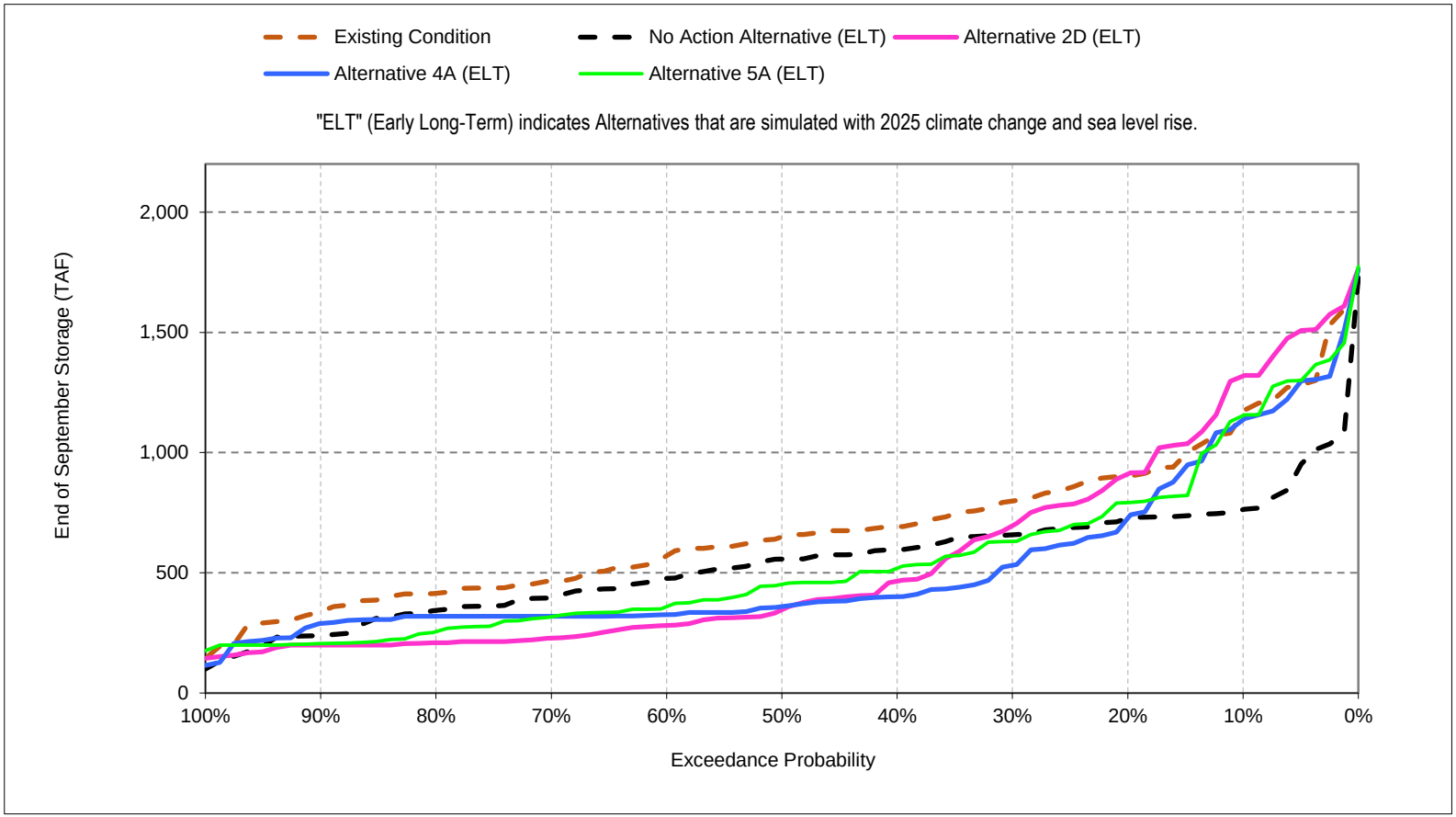


Figure C-44-2. San Luis Reservoir (SWP and CVP), End of September Storage

Table C-44-1. San Luis Reservoir (SWP and CVP), End of Month Storage

Existing Condition

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,317	1,508	1,705	1,876	1,998	2,039	1,841	1,525	1,343	1,219	1,006	1,167
20%	1,097	1,404	1,646	1,758	1,879	2,015	1,713	1,298	993	928	771	902
30%	998	1,289	1,577	1,670	1,809	1,917	1,602	1,255	871	716	636	799
40%	907	1,207	1,513	1,638	1,722	1,738	1,510	1,163	769	655	586	692
50%	824	1,105	1,442	1,541	1,660	1,634	1,419	1,064	649	576	535	649
60%	711	1,006	1,367	1,486	1,571	1,604	1,336	952	525	495	493	571
70%	589	851	1,173	1,400	1,453	1,550	1,271	877	438	440	424	465
80%	539	689	1,008	1,270	1,384	1,418	1,201	808	350	337	330	415
90%	381	549	868	987	1,111	1,176	939	617	280	250	240	339
Long Term												
Full Simulation Period[a]	835	1,069	1,357	1,495	1,594	1,647	1,409	1,077	729	651	590	687
Water Year Types[b]												
Wet (32%)	969	1,250	1,513	1,648	1,796	1,913	1,679	1,365	1,082	940	852	980
Above Normal (15%)	731	949	1,267	1,386	1,491	1,623	1,360	991	689	567	515	658
Below Normal (17%)	806	1,056	1,347	1,476	1,572	1,639	1,371	995	608	569	524	637
Dry (22%)	816	1,044	1,357	1,518	1,584	1,547	1,287	919	457	426	445	516
Critical (15%)	712	848	1,118	1,258	1,299	1,253	1,100	868	551	544	394	399

No Action Alternative (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	895	1,078	1,486	1,740	2,002	2,039	1,729	1,388	1,066	908	795	763
20%	711	954	1,279	1,549	1,728	1,885	1,638	1,241	899	786	661	726
30%	662	815	1,209	1,428	1,621	1,761	1,496	1,195	803	681	558	659
40%	607	754	1,066	1,374	1,558	1,694	1,415	1,090	728	587	521	597
50%	544	671	978	1,257	1,469	1,581	1,350	997	625	529	464	557
60%	502	622	946	1,197	1,376	1,486	1,266	954	567	466	386	477
70%	436	551	865	1,106	1,290	1,374	1,185	858	460	388	341	400
80%	359	497	819	984	1,154	1,227	1,077	704	380	285	256	344
90%	263	369	601	841	1,013	1,068	852	604	264	183	217	239
Long Term												
Full Simulation Period[a]	565	714	1,041	1,280	1,453	1,559	1,337	1,017	676	566	490	546
Water Year Types[b]												
Wet (32%)	622	803	1,119	1,368	1,595	1,788	1,538	1,207	889	706	631	703
Above Normal (15%)	410	577	932	1,177	1,344	1,506	1,249	886	556	378	367	481
Below Normal (17%)	559	724	1,062	1,283	1,443	1,539	1,293	935	568	508	452	563
Dry (22%)	583	705	1,067	1,316	1,450	1,481	1,279	959	557	530	453	457
Critical (15%)	573	660	914	1,132	1,271	1,257	1,130	921	636	572	405	388

No Action Alternative (ELT) minus Existing Condition

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-422	-429	-219	-136	5	0	-112	-136	-277	-311	-211	-404
20%	-386	-451	-367	-210	-151	-130	-75	-57	-93	-141	-111	-176
30%	-336	-473	-369	-242	-188	-156	-105	-60	-68	-35	-79	-140
40%	-299	-454	-447	-264	-164	-44	-95	-73	-41	-68	-65	-95
50%	-279	-434	-463	-285	-191	-54	-69	-67	-25	-47	-71	-92
60%	-210	-384	-421	-289	-195	-118	-70	2	42	-28	-107	-94
70%	-153	-301	-308	-294	-163	-176	-85	-19	22	-52	-83	-66
80%	-181	-192	-189	-286	-230	-191	-125	-104	30	-52	-73	-71
90%	-118	-179	-267	-146	-98	-108	-88	-12	-16	-67	-23	-100
Long Term												
Full Simulation Period[a]	-271	-355	-316	-215	-141	-88	-72	-59	-53	-85	-101	-141
Water Year Types[b]												
Wet (32%)	-347	-447	-394	-279	-201	-126	-141	-158	-194	-234	-221	-277
Above Normal (15%)	-321	-372	-335	-209	-148	-118	-111	-105	-133	-189	-148	-177
Below Normal (17%)	-247	-333	-285	-193	-129	-101	-78	-60	-40	-61	-72	-74
Dry (22%)	-234	-340	-290	-202	-134	-66	-9	40	100	103	8	-60
Critical (15%)	-139	-188	-205	-126	-28	3	30	52	85	28	11	-11

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-44-2. San Luis Reservoir (SWP and CVP), End of Month Storage

Existing Condition

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,317	1,508	1,705	1,876	1,998	2,039	1,841	1,525	1,343	1,219	1,006	1,167
20%	1,097	1,404	1,646	1,758	1,879	2,015	1,713	1,298	993	928	771	902
30%	998	1,289	1,577	1,670	1,809	1,917	1,602	1,255	871	716	636	799
40%	907	1,207	1,513	1,638	1,722	1,738	1,510	1,163	769	655	586	692
50%	824	1,105	1,442	1,541	1,660	1,634	1,419	1,064	649	576	535	649
60%	711	1,006	1,367	1,486	1,571	1,604	1,336	952	525	495	493	571
70%	589	851	1,173	1,400	1,453	1,550	1,271	877	438	440	424	465
80%	539	689	1,008	1,270	1,384	1,418	1,201	808	350	337	330	415
90%	381	549	868	987	1,111	1,176	939	617	280	250	240	339
Long Term												
Full Simulation Period[a]	835	1,069	1,357	1,495	1,594	1,647	1,409	1,077	729	651	590	687
Water Year Types[b]												
Wet (32%)	969	1,250	1,513	1,648	1,796	1,913	1,679	1,365	1,082	940	852	980
Above Normal (15%)	731	949	1,267	1,386	1,491	1,623	1,360	991	689	567	515	658
Below Normal (17%)	806	1,056	1,347	1,476	1,572	1,639	1,371	995	608	569	524	637
Dry (22%)	816	1,044	1,357	1,518	1,584	1,547	1,287	919	457	426	445	516
Critical (15%)	712	848	1,118	1,258	1,299	1,253	1,100	868	551	544	394	399

Alternative 2D (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,135	1,017	1,480	1,894	2,039	2,039	2,039	2,039	1,864	1,563	1,396	1,318
20%	809	876	1,233	1,711	1,868	2,039	2,021	1,953	1,664	1,402	1,140	910
30%	583	734	1,167	1,511	1,789	1,986	1,954	1,710	1,466	1,056	828	696
40%	432	643	993	1,371	1,658	1,879	1,856	1,668	1,336	953	640	465
50%	315	520	839	1,202	1,553	1,798	1,735	1,480	1,218	877	541	346
60%	256	420	708	1,056	1,456	1,656	1,537	1,271	1,048	742	429	281
70%	208	322	645	904	1,113	1,414	1,319	1,132	824	646	367	229
80%	161	238	551	735	965	1,124	1,021	793	527	429	287	209
90%	145	169	393	599	748	901	818	599	370	346	226	200
Long Term												
Full Simulation Period[a]	492	593	914	1,216	1,461	1,619	1,562	1,384	1,139	901	677	555
Water Year Types[b]												
Wet (32%)	613	710	1,097	1,500	1,752	1,918	1,928	1,851	1,639	1,320	1,062	851
Above Normal (15%)	324	504	816	1,196	1,496	1,730	1,700	1,542	1,315	992	732	512
Below Normal (17%)	574	630	951	1,193	1,497	1,612	1,473	1,160	934	780	604	504
Dry (22%)	368	487	773	986	1,207	1,411	1,320	1,093	793	616	381	350
Critical (15%)	491	541	787	994	1,137	1,181	1,100	914	639	469	315	322

Alternative 2D (ELT) minus Existing Condition

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-182	-491	-225	18	41	0	198	514	521	344	391	151
20%	-288	-528	-414	-47	-12	24	308	655	672	475	368	8
30%	-415	-554	-410	-159	-20	70	352	455	595	341	192	-102
40%	-474	-564	-520	-267	-64	142	346	505	567	298	54	-227
50%	-509	-585	-602	-340	-107	163	316	416	569	301	6	-303
60%	-455	-586	-659	-429	-115	51	201	319	522	247	-63	-290
70%	-381	-530	-529	-496	-339	-136	48	255	385	206	-57	-236
80%	-378	-451	-456	-535	-419	-294	-180	-14	177	92	-43	-206
90%	-236	-380	-475	-388	-363	-275	-121	-18	90	96	-14	-139
Long Term												
Full Simulation Period[a]	-343	-476	-442	-279	-133	-28	153	308	410	250	87	-133
Water Year Types[b]												
Wet (32%)	-356	-540	-416	-148	-44	5	249	485	556	381	210	-129
Above Normal (15%)	-407	-444	-451	-190	4	107	340	551	626	425	217	-147
Below Normal (17%)	-232	-426	-396	-283	-76	-28	102	165	326	211	80	-133
Dry (22%)	-448	-558	-585	-532	-377	-136	33	175	337	190	-63	-166
Critical (15%)	-222	-306	-331	-264	-162	-72	0	46	88	-75	-79	-77

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-44-3. San Luis Reservoir (SWP and CVP), End of Month Storage

Existing Condition

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,317	1,508	1,705	1,876	1,998	2,039	1,841	1,525	1,343	1,219	1,006	1,167
20%	1,097	1,404	1,646	1,758	1,879	2,015	1,713	1,298	993	928	771	902
30%	998	1,289	1,577	1,670	1,809	1,917	1,602	1,255	871	716	636	799
40%	907	1,207	1,513	1,638	1,722	1,738	1,510	1,163	769	655	586	692
50%	824	1,105	1,442	1,541	1,660	1,634	1,419	1,064	649	576	535	649
60%	711	1,006	1,367	1,486	1,571	1,604	1,336	952	525	495	493	571
70%	589	851	1,173	1,400	1,453	1,550	1,271	877	438	440	424	465
80%	539	689	1,008	1,270	1,384	1,418	1,201	808	350	337	330	415
90%	381	549	868	987	1,111	1,176	939	617	280	250	240	339
Long Term												
Full Simulation Period[a]	835	1,069	1,357	1,495	1,594	1,647	1,409	1,077	729	651	590	687
Water Year Types[b]												
Wet (32%)	969	1,250	1,513	1,648	1,796	1,913	1,679	1,365	1,082	940	852	980
Above Normal (15%)	731	949	1,267	1,386	1,491	1,623	1,360	991	689	567	515	658
Below Normal (17%)	806	1,056	1,347	1,476	1,572	1,639	1,371	995	608	569	524	637
Dry (22%)	816	1,044	1,357	1,518	1,584	1,547	1,287	919	457	426	445	516
Critical (15%)	712	848	1,118	1,258	1,299	1,253	1,100	868	551	544	394	399

Alternative 4A (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,008	1,012	1,473	1,800	2,037	2,039	1,801	1,478	1,223	1,039	1,026	1,137
20%	665	861	1,299	1,662	1,916	2,039	1,719	1,329	1,084	898	800	727
30%	519	708	1,141	1,458	1,794	1,952	1,663	1,253	1,004	811	676	531
40%	389	648	1,003	1,363	1,632	1,856	1,575	1,163	908	751	518	401
50%	336	520	853	1,201	1,555	1,767	1,472	1,074	852	673	461	360
60%	303	438	765	1,126	1,397	1,568	1,337	1,011	765	624	430	326
70%	276	376	630	928	1,181	1,391	1,204	881	631	536	398	320
80%	250	278	556	731	1,021	1,077	987	698	463	398	360	320
90%	226	160	523	603	786	981	783	489	222	285	308	289
Long Term												
Full Simulation Period[a]	480	591	931	1,213	1,452	1,606	1,380	1,053	821	705	582	524
Water Year Types[b]												
Wet (32%)	605	723	1,109	1,478	1,725	1,885	1,620	1,287	1,082	944	832	720
Above Normal (15%)	333	488	825	1,184	1,498	1,709	1,418	1,016	785	663	609	547
Below Normal (17%)	481	581	925	1,119	1,399	1,550	1,305	933	735	684	562	524
Dry (22%)	397	507	825	1,045	1,251	1,439	1,256	945	672	578	398	368
Critical (15%)	479	545	816	1,031	1,177	1,212	1,093	888	613	447	313	312

Alternative 4A (ELT) minus Existing Condition

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-310**	**-496**	**-232**	**-76**	40	0	**-40**	**-47**	**-120**	**-181**	20	**-30**
20%	**-432**	**-543**	**-348**	**-96**	36	24	6	30	92	**-30**	29	**-175**
30%	**-479**	**-581**	**-436**	**-212**	**-15**	35	61	**-2**	133	95	40	**-267**
40%	**-518**	**-560**	**-510**	**-275**	**-90**	118	64	0	139	96	**-68**	**-291**
50%	**-487**	**-585**	**-589**	**-340**	**-104**	133	54	10	203	97	**-75**	**-289**
60%	**-409**	**-568**	**-602**	**-360**	**-174**	**-36**	2	59	240	129	**-62**	**-245**
70%	**-313**	**-475**	**-543**	**-472**	**-272**	**-158**	**-66**	4	192	96	**-27**	**-145**
80%	**-290**	**-411**	**-452**	**-539**	**-362**	**-341**	**-215**	**-109**	114	61	31	**-95**
90%	**-154**	**-389**	**-346**	**-384**	**-325**	**-195**	**-156**	**-128**	**-57**	35	68	**-50**
Long Term												
Full Simulation Period[a]	**-356**	**-478**	**-426**	**-281**	**-142**	**-41**	**-29**	**-23**	92	54	**-8**	**-163**
Water Year Types[b]												
Wet (32%)	**-364**	**-527**	**-404**	**-170**	**-71**	**-28**	**-59**	**-78**	**0**	4	**-19**	**-259**
Above Normal (15%)	**-399**	**-461**	**-442**	**-202**	6	86	58	24	97	96	95	**-111**
Below Normal (17%)	**-325**	**-475**	**-422**	**-357**	**-173**	**-89**	**-67**	**-63**	127	115	38	**-113**
Dry (22%)	**-419**	**-537**	**-532**	**-472**	**-333**	**-108**	**-31**	27	215	152	**-47**	**-148**
Critical (15%)	**-234**	**-303**	**-303**	**-227**	**-121**	**-41**	**-7**	20	62	**-97**	**-81**	**-88**

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-44-4. San Luis Reservoir (SWP and CVP), End of Month Storage

Existing Condition

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,317	1,508	1,705	1,876	1,998	2,039	1,841	1,525	1,343	1,219	1,006	1,167
20%	1,097	1,404	1,646	1,758	1,879	2,015	1,713	1,298	993	928	771	902
30%	998	1,289	1,577	1,670	1,809	1,917	1,602	1,255	871	716	636	799
40%	907	1,207	1,513	1,638	1,722	1,738	1,510	1,163	769	655	586	692
50%	824	1,105	1,442	1,541	1,660	1,634	1,419	1,064	649	576	535	649
60%	711	1,006	1,367	1,486	1,571	1,604	1,336	952	525	495	493	571
70%	589	851	1,173	1,400	1,453	1,550	1,271	877	438	440	424	465
80%	539	689	1,008	1,270	1,384	1,418	1,201	808	350	337	330	415
90%	381	549	868	987	1,111	1,176	939	617	280	250	240	339
Long Term												
Full Simulation Period[a]	835	1,069	1,357	1,495	1,594	1,647	1,409	1,077	729	651	590	687
Water Year Types[b]												
Wet (32%)	969	1,250	1,513	1,648	1,796	1,913	1,679	1,365	1,082	940	852	980
Above Normal (15%)	731	949	1,267	1,386	1,491	1,623	1,360	991	689	567	515	658
Below Normal (17%)	806	1,056	1,347	1,476	1,572	1,639	1,371	995	608	569	524	637
Dry (22%)	816	1,044	1,357	1,518	1,584	1,547	1,287	919	457	426	445	516
Critical (15%)	712	848	1,118	1,258	1,299	1,253	1,100	868	551	544	394	399

Alternative 5A (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	993	1,087	1,517	1,926	2,039	2,039	1,956	1,721	1,546	1,319	1,118	1,154
20%	847	917	1,297	1,665	1,893	2,039	1,866	1,562	1,325	1,102	903	792
30%	705	853	1,226	1,546	1,790	1,973	1,793	1,473	1,167	988	750	631
40%	595	783	1,132	1,390	1,673	1,883	1,733	1,395	1,064	890	640	519
50%	477	727	992	1,299	1,573	1,750	1,629	1,298	974	780	585	453
60%	422	593	897	1,201	1,382	1,570	1,391	1,099	813	733	544	359
70%	324	401	783	1,049	1,278	1,394	1,232	983	666	621	484	318
80%	212	326	620	910	1,132	1,254	1,116	859	553	499	412	255
90%	163	145	521	744	953	1,120	1,024	745	409	346	338	206
Long Term												
Full Simulation Period[a]	564	678	1,013	1,306	1,510	1,651	1,508	1,238	959	833	682	551
Water Year Types[b]												
Wet (32%)	666	792	1,145	1,471	1,716	1,898	1,762	1,524	1,295	1,115	947	706
Above Normal (15%)	372	541	880	1,197	1,415	1,624	1,469	1,179	908	736	669	471
Below Normal (17%)	640	723	1,065	1,330	1,513	1,637	1,439	1,088	770	705	612	521
Dry (22%)	459	577	935	1,210	1,399	1,515	1,381	1,092	762	749	551	498
Critical (15%)	604	670	916	1,171	1,323	1,359	1,265	1,074	800	595	402	407

Alternative 5A (ELT) minus Existing Condition

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-324**	**-421**	**-189**	50	41	0	116	196	203	100	113	**-13**
20%	**-250**	**-487**	**-349**	**-93**	14	24	153	264	332	174	131	**-110**
30%	**-292**	**-435**	**-351**	**-124**	**-19**	57	191	218	296	272	114	**-167**
40%	**-312**	**-424**	**-380**	**-248**	**-49**	145	223	232	295	235	54	**-173**
50%	**-347**	**-378**	**-449**	**-242**	**-87**	116	210	234	325	204	49	**-197**
60%	**-289**	**-413**	**-470**	**-285**	**-189**	**-34**	56	146	288	239	51	**-212**
70%	**-264**	**-450**	**-390**	**-350**	**-175**	**-156**	**-39**	106	227	181	60	**-148**
80%	**-327**	**-363**	**-387**	**-360**	**-252**	**-164**	**-85**	51	203	162	83	**-160**
90%	**-218**	**-403**	**-347**	**-243**	**-158**	**-56**	85	128	130	96	98	**-134**
Long Term												
Full Simulation Period[a]	**-271**	**-390**	**-344**	**-189**	**-84**	4	99	162	230	182	92	**-136**
Water Year Types[b]												
Wet (32%)	**-303**	**-458**	**-368**	**-176**	**-80**	**-15**	83	158	213	176	95	**-273**
Above Normal (15%)	**-360**	**-408**	**-386**	**-189**	**-77**	1	109	187	220	169	154	**-187**
Below Normal (17%)	**-166**	**-333**	**-282**	**-146**	**-59**	**-2**	68	93	162	135	88	**-116**
Dry (22%)	**-358**	**-467**	**-422**	**-307**	**-185**	**-32**	94	173	305	323	106	**-18**
Critical (15%)	**-108**	**-178**	**-202**	**-87**	25	106	165	206	249	52	9	8

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-44-5. San Luis Reservoir (SWP and CVP), End of Month Storage

No Action Alternative (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	895	1,078	1,486	1,740	2,002	2,039	1,729	1,388	1,066	908	795	763
20%	711	954	1,279	1,549	1,728	1,885	1,638	1,241	899	786	661	726
30%	662	815	1,209	1,428	1,621	1,761	1,496	1,195	803	681	558	659
40%	607	754	1,066	1,374	1,558	1,694	1,415	1,090	728	587	521	597
50%	544	671	978	1,257	1,469	1,581	1,350	997	625	529	464	557
60%	502	622	946	1,197	1,376	1,486	1,266	954	567	466	386	477
70%	436	551	865	1,106	1,290	1,374	1,185	858	460	388	341	400
80%	359	497	819	984	1,154	1,227	1,077	704	380	285	256	344
90%	263	369	601	841	1,013	1,068	852	604	264	183	217	239
Long Term												
Full Simulation Period[a]	565	714	1,041	1,280	1,453	1,559	1,337	1,017	676	566	490	546
Water Year Types[b]												
Wet (32%)	622	803	1,119	1,368	1,595	1,788	1,538	1,207	889	706	631	703
Above Normal (15%)	410	577	932	1,177	1,344	1,506	1,249	886	556	378	367	481
Below Normal (17%)	559	724	1,062	1,283	1,443	1,539	1,293	935	568	508	452	563
Dry (22%)	583	705	1,067	1,316	1,450	1,481	1,279	959	557	530	453	457
Critical (15%)	573	660	914	1,132	1,271	1,257	1,130	921	636	572	405	388

Alternative 2D (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,135	1,017	1,480	1,894	2,039	2,039	2,039	2,039	1,864	1,563	1,396	1,318
20%	809	876	1,233	1,711	1,868	2,039	2,021	1,953	1,664	1,402	1,140	910
30%	583	734	1,167	1,511	1,789	1,986	1,954	1,710	1,466	1,056	828	696
40%	432	643	993	1,371	1,658	1,879	1,856	1,668	1,336	953	640	465
50%	315	520	839	1,202	1,553	1,798	1,735	1,480	1,218	877	541	346
60%	256	420	708	1,056	1,456	1,656	1,537	1,271	1,048	742	429	281
70%	208	322	645	904	1,113	1,414	1,319	1,132	824	646	367	229
80%	161	238	551	735	965	1,124	1,021	793	527	429	287	209
90%	145	169	393	599	748	901	818	599	370	346	226	200
Long Term												
Full Simulation Period[a]	492	593	914	1,216	1,461	1,619	1,562	1,384	1,139	901	677	555
Water Year Types[b]												
Wet (32%)	613	710	1,097	1,500	1,752	1,918	1,928	1,851	1,639	1,320	1,062	851
Above Normal (15%)	324	504	816	1,196	1,496	1,730	1,700	1,542	1,315	992	732	512
Below Normal (17%)	574	630	951	1,193	1,497	1,612	1,473	1,160	934	780	604	504
Dry (22%)	368	487	773	986	1,207	1,411	1,320	1,093	793	616	381	350
Critical (15%)	491	541	787	994	1,137	1,181	1,100	914	639	469	315	322

Alternative 2D (ELT) minus No Action Alternative (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	240	-61	-6	154	37	0	310	651	798	655	601	555
20%	98	-78	-47	162	139	153	383	712	765	616	479	184
30%	-79	-81	-41	83	169	226	458	515	663	376	271	38
40%	-175	-111	-73	-3	100	186	441	578	608	366	118	-132
50%	-230	-151	-139	-55	84	217	385	483	593	348	77	-211
60%	-245	-202	-238	-140	80	169	271	317	480	275	44	-196
70%	-228	-229	-221	-202	-176	40	133	274	363	258	26	-171
80%	-197	-259	-267	-249	-189	-103	-56	90	147	144	30	-135
90%	-118	-200	-208	-242	-265	-167	-34	-5	106	163	9	-39
Long Term												
Full Simulation Period[a]	-72	-121	-126	-64	8	60	225	367	464	335	187	8
Water Year Types[b]												
Wet (32%)	-9	-93	-22	131	157	131	390	643	750	615	431	148
Above Normal (15%)	-86	-72	-116	19	152	224	451	656	759	613	365	30
Below Normal (17%)	14	-94	-111	-90	53	73	180	225	366	271	152	-59
Dry (22%)	-214	-218	-294	-330	-243	-70	41	135	236	87	-72	-106
Critical (15%)	-82	-118	-126	-138	-134	-75	-30	-7	2	-103	-90	-65

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-44-6. San Luis Reservoir (SWP and CVP), End of Month Storage

No Action Alternative (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	895	1,078	1,486	1,740	2,002	2,039	1,729	1,388	1,066	908	795	763
20%	711	954	1,279	1,549	1,728	1,885	1,638	1,241	899	786	661	726
30%	662	815	1,209	1,428	1,621	1,761	1,496	1,195	803	681	558	659
40%	607	754	1,066	1,374	1,558	1,694	1,415	1,090	728	587	521	597
50%	544	671	978	1,257	1,469	1,581	1,350	997	625	529	464	557
60%	502	622	946	1,197	1,376	1,486	1,266	954	567	466	386	477
70%	436	551	865	1,106	1,290	1,374	1,185	858	460	388	341	400
80%	359	497	819	984	1,154	1,227	1,077	704	380	285	256	344
90%	263	369	601	841	1,013	1,068	852	604	264	183	217	239
Long Term												
Full Simulation Period[a]	565	714	1,041	1,280	1,453	1,559	1,337	1,017	676	566	490	546
Water Year Types[b]												
Wet (32%)	622	803	1,119	1,368	1,595	1,788	1,538	1,207	889	706	631	703
Above Normal (15%)	410	577	932	1,177	1,344	1,506	1,249	886	556	378	367	481
Below Normal (17%)	559	724	1,062	1,283	1,443	1,539	1,293	935	568	508	452	563
Dry (22%)	583	705	1,067	1,316	1,450	1,481	1,279	959	557	530	453	457
Critical (15%)	573	660	914	1,132	1,271	1,257	1,130	921	636	572	405	388

Alternative 4A (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,008	1,012	1,473	1,800	2,037	2,039	1,801	1,478	1,223	1,039	1,026	1,137
20%	665	861	1,299	1,662	1,916	2,039	1,719	1,329	1,084	898	800	727
30%	519	708	1,141	1,458	1,794	1,952	1,663	1,253	1,004	811	676	531
40%	389	648	1,003	1,363	1,632	1,856	1,575	1,163	908	751	518	401
50%	336	520	853	1,201	1,555	1,767	1,472	1,074	852	673	461	360
60%	303	438	765	1,126	1,397	1,568	1,337	1,011	765	624	430	326
70%	276	376	630	928	1,181	1,391	1,204	881	631	536	398	320
80%	250	278	556	731	1,021	1,077	987	698	463	398	360	320
90%	226	160	523	603	786	981	783	489	222	285	308	289
Long Term												
Full Simulation Period[a]	480	591	931	1,213	1,452	1,606	1,380	1,053	821	705	582	524
Water Year Types[b]												
Wet (32%)	605	723	1,109	1,478	1,725	1,885	1,620	1,287	1,082	944	832	720
Above Normal (15%)	333	488	825	1,184	1,498	1,709	1,418	1,016	785	663	609	547
Below Normal (17%)	481	581	925	1,119	1,399	1,550	1,305	933	735	684	562	524
Dry (22%)	397	507	825	1,045	1,251	1,439	1,256	945	672	578	398	368
Critical (15%)	479	545	816	1,031	1,177	1,212	1,093	888	613	447	313	312

Alternative 4A (ELT) minus No Action Alternative (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	113	-67	-13	60	35	0	72	90	157	131	231	374
20%	-46	-93	20	113	187	154	81	87	185	111	139	0
30%	-143	-107	-67	29	173	191	167	58	201	130	119	-127
40%	-218	-106	-63	-10	74	162	160	73	180	164	-4	-196
50%	-208	-152	-125	-56	86	187	123	77	227	144	-3	-197
60%	-199	-184	-181	-71	21	82	72	57	198	158	45	-151
70%	-160	-175	-235	-178	-108	17	19	23	170	149	57	-80
80%	-109	-218	-263	-253	-132	-150	-90	-5	83	113	104	-24
90%	-36	-210	-79	-238	-227	-87	-68	-116	-41	102	91	50
Long Term												
Full Simulation Period[a]	-85	-123	-110	-66	-1	47	42	36	145	140	93	-22
Water Year Types[b]												
Wet (32%)	-18	-80	-10	110	130	97	82	80	193	238	202	17
Above Normal (15%)	-78	-89	-107	7	154	204	169	129	230	285	242	66
Below Normal (17%)	-78	-142	-137	-164	-44	12	12	-2	167	176	110	-39
Dry (22%)	-186	-197	-242	-271	-199	-42	-23	-14	115	49	-55	-89
Critical (15%)	-94	-115	-98	-101	-93	-44	-37	-32	-24	-126	-92	-76

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-44-7. San Luis Reservoir (SWP and CVP), End of Month Storage

No Action Alternative (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	895	1,078	1,486	1,740	2,002	2,039	1,729	1,388	1,066	908	795	763
20%	711	954	1,279	1,549	1,728	1,885	1,638	1,241	899	786	661	726
30%	662	815	1,209	1,428	1,621	1,761	1,496	1,195	803	681	558	659
40%	607	754	1,066	1,374	1,558	1,694	1,415	1,090	728	587	521	597
50%	544	671	978	1,257	1,469	1,581	1,350	997	625	529	464	557
60%	502	622	946	1,197	1,376	1,486	1,266	954	567	466	386	477
70%	436	551	865	1,106	1,290	1,374	1,185	858	460	388	341	400
80%	359	497	819	984	1,154	1,227	1,077	704	380	285	256	344
90%	263	369	601	841	1,013	1,068	852	604	264	183	217	239
Long Term												
Full Simulation Period[a]	565	714	1,041	1,280	1,453	1,559	1,337	1,017	676	566	490	546
Water Year Types[b]												
Wet (32%)	622	803	1,119	1,368	1,595	1,788	1,538	1,207	889	706	631	703
Above Normal (15%)	410	577	932	1,177	1,344	1,506	1,249	886	556	378	367	481
Below Normal (17%)	559	724	1,062	1,283	1,443	1,539	1,293	935	568	508	452	563
Dry (22%)	583	705	1,067	1,316	1,450	1,481	1,279	959	557	530	453	457
Critical (15%)	573	660	914	1,132	1,271	1,257	1,130	921	636	572	405	388

Alternative 5A (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	993	1,087	1,517	1,926	2,039	2,039	1,956	1,721	1,546	1,319	1,118	1,154
20%	847	917	1,297	1,665	1,893	2,039	1,866	1,562	1,325	1,102	903	792
30%	705	853	1,226	1,546	1,790	1,973	1,793	1,473	1,167	988	750	631
40%	595	783	1,132	1,390	1,673	1,883	1,733	1,395	1,064	890	640	519
50%	477	727	992	1,299	1,573	1,750	1,629	1,298	974	780	585	453
60%	422	593	897	1,201	1,382	1,570	1,391	1,099	813	733	544	359
70%	324	401	783	1,049	1,278	1,394	1,232	983	666	621	484	318
80%	212	326	620	910	1,132	1,254	1,116	859	553	499	412	255
90%	163	145	521	744	953	1,120	1,024	745	409	346	338	206
Long Term												
Full Simulation Period[a]	564	678	1,013	1,306	1,510	1,651	1,508	1,238	959	833	682	551
Water Year Types[b]												
Wet (32%)	666	792	1,145	1,471	1,716	1,898	1,762	1,524	1,295	1,115	947	706
Above Normal (15%)	372	541	880	1,197	1,415	1,624	1,469	1,179	908	736	669	471
Below Normal (17%)	640	723	1,065	1,330	1,513	1,637	1,439	1,088	770	705	612	521
Dry (22%)	459	577	935	1,210	1,399	1,515	1,381	1,092	762	749	551	498
Critical (15%)	604	670	916	1,171	1,323	1,359	1,265	1,074	800	595	402	407

Alternative 5A (ELT) minus No Action Alternative (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	99	9	30	186	37	0	228	332	480	411	323	391
20%	136	-37	18	117	165	154	228	321	425	315	242	66
30%	43	38	17	118	170	213	297	278	365	308	193	-27
40%	-13	30	67	17	115	189	318	305	337	303	118	-78
50%	-68	56	14	43	104	169	279	301	350	251	121	-105
60%	-79	-29	-49	4	6	84	126	145	246	267	158	-118
70%	-111	-150	-82	-56	-12	20	47	125	205	233	143	-82
80%	-146	-171	-199	-74	-21	27	40	155	173	215	156	-88
90%	-100	-224	-80	-97	-60	52	172	141	145	162	121	-33
Long Term												
Full Simulation Period[a]	-1	-35	-27	26	57	92	171	221	284	267	193	5
Water Year Types[b]												
Wet (32%)	44	-11	26	103	121	111	224	316	406	410	316	3
Above Normal (15%)	-39	-36	-52	20	71	119	220	292	352	358	302	-10
Below Normal (17%)	81	-1	3	47	70	98	146	153	202	196	160	-41
Dry (22%)	-124	-128	-132	-106	-51	34	102	133	204	219	98	42
Critical (15%)	31	10	2	39	53	103	135	154	163	23	-3	20

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

C.45. New Melones Storage

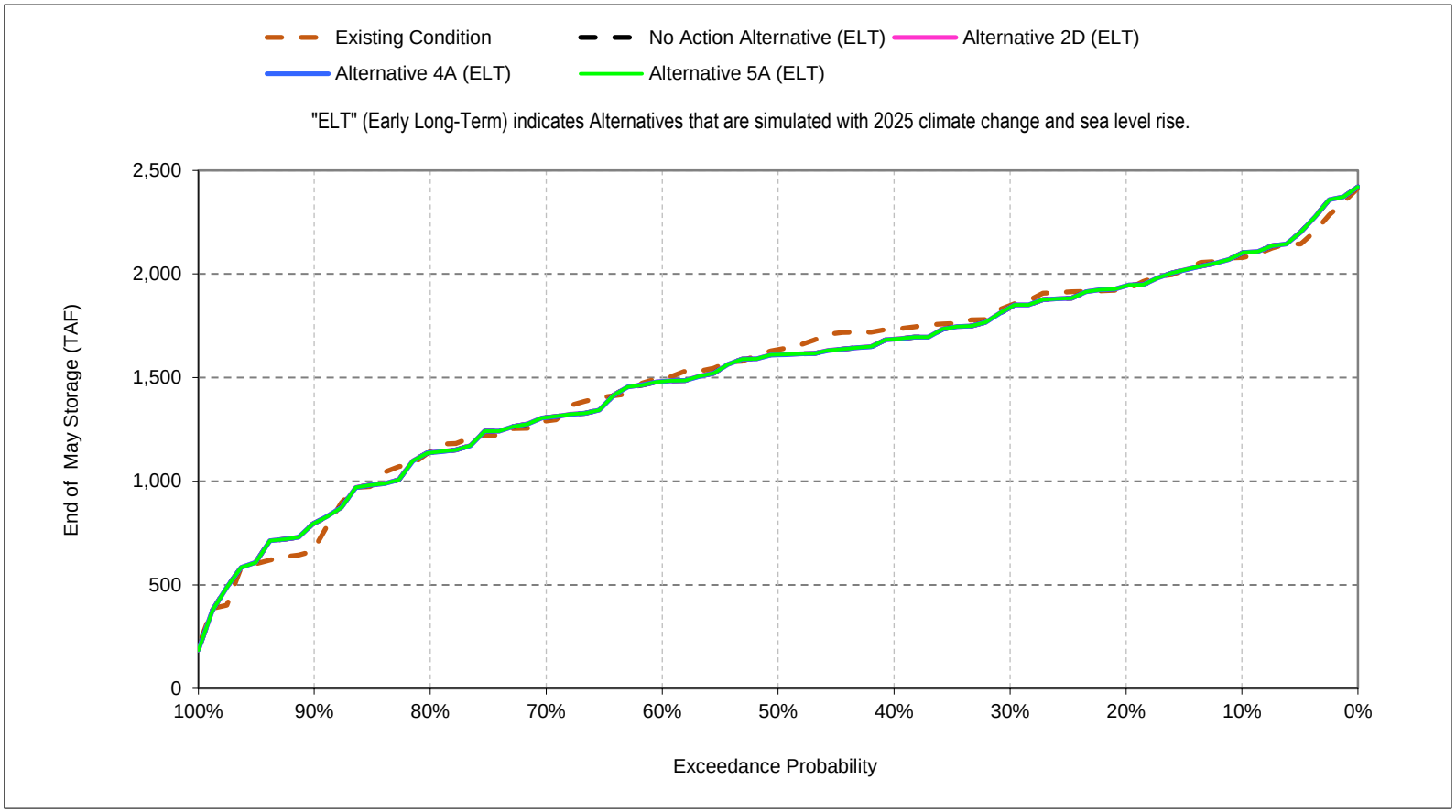


Figure C-45-1. New Melones Reservoir, End of May Storage

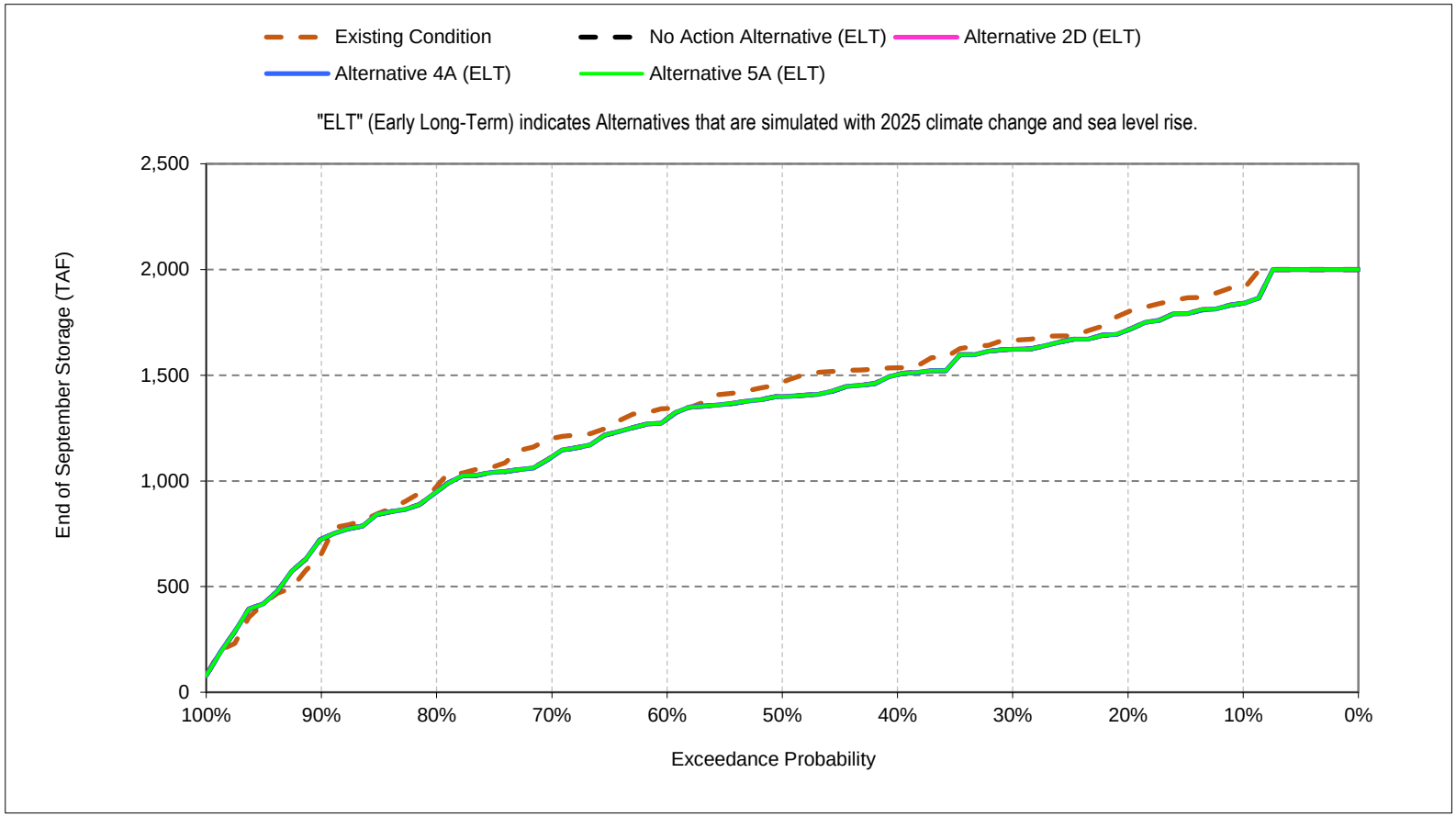


Figure C-45-2. New Melones Reservoir, End of September Storage

Table C-45-1. New Melones Reservoir, End of Month Storage

Existing Condition

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,870	1,878	1,931	1,952	1,970	1,990	1,970	2,080	2,142	2,068	1,973	1,914
20%	1,757	1,758	1,787	1,845	1,932	1,956	1,875	1,928	1,990	1,947	1,854	1,799
30%	1,629	1,648	1,690	1,774	1,850	1,874	1,848	1,848	1,850	1,788	1,704	1,666
40%	1,513	1,554	1,627	1,689	1,764	1,778	1,745	1,734	1,708	1,638	1,568	1,535
50%	1,444	1,450	1,476	1,544	1,640	1,668	1,629	1,635	1,619	1,577	1,497	1,466
60%	1,320	1,346	1,383	1,449	1,504	1,497	1,481	1,498	1,500	1,436	1,369	1,343
70%	1,173	1,204	1,239	1,293	1,301	1,302	1,274	1,291	1,340	1,274	1,216	1,201
80%	990	976	991	1,013	1,055	1,138	1,094	1,144	1,123	1,062	1,003	975
90%	674	694	727	747	760	770	697	674	775	742	682	655
Long Term												
Full Simulation Period[a]	1,342	1,353	1,387	1,438	1,492	1,516	1,492	1,526	1,547	1,485	1,406	1,364
Water Year Types[b]												
Wet (32%)	1,523	1,536	1,589	1,680	1,763	1,807	1,823	1,932	2,015	1,954	1,850	1,787
Above Normal (15%)	1,289	1,316	1,367	1,451	1,537	1,591	1,572	1,638	1,666	1,602	1,522	1,484
Below Normal (17%)	1,287	1,297	1,322	1,357	1,417	1,438	1,416	1,476	1,489	1,425	1,349	1,314
Dry (22%)	1,403	1,407	1,424	1,438	1,461	1,477	1,418	1,375	1,350	1,287	1,221	1,190
Critical (15%)	976	977	990	996	994	963	895	820	777	721	670	647

No Action Alternative (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,784	1,787	1,849	1,945	1,970	2,003	1,981	2,100	2,122	2,026	1,912	1,840
20%	1,662	1,686	1,738	1,765	1,878	1,918	1,904	1,943	1,950	1,875	1,771	1,714
30%	1,594	1,605	1,664	1,737	1,808	1,830	1,765	1,839	1,853	1,769	1,666	1,623
40%	1,458	1,499	1,573	1,643	1,720	1,742	1,687	1,685	1,687	1,618	1,534	1,502
50%	1,370	1,375	1,402	1,509	1,575	1,621	1,568	1,611	1,570	1,493	1,414	1,399
60%	1,288	1,318	1,331	1,388	1,421	1,436	1,419	1,481	1,464	1,398	1,328	1,294
70%	1,122	1,146	1,191	1,224	1,285	1,304	1,254	1,308	1,267	1,211	1,152	1,114
80%	903	895	933	936	1,030	1,078	1,081	1,138	1,099	1,045	984	949
90%	734	741	759	766	817	804	758	797	847	782	726	725
Long Term												
Full Simulation Period[a]	1,301	1,312	1,350	1,407	1,467	1,497	1,478	1,520	1,532	1,456	1,370	1,325
Water Year Types[b]												
Wet (32%)	1,491	1,503	1,567	1,675	1,768	1,807	1,826	1,948	2,018	1,935	1,819	1,749
Above Normal (15%)	1,245	1,276	1,337	1,427	1,511	1,580	1,567	1,641	1,650	1,573	1,485	1,444
Below Normal (17%)	1,241	1,248	1,272	1,305	1,375	1,407	1,389	1,458	1,468	1,391	1,308	1,272
Dry (22%)	1,345	1,347	1,363	1,375	1,404	1,425	1,373	1,334	1,304	1,232	1,163	1,130
Critical (15%)	951	952	964	971	976	954	894	821	775	715	665	642

No Action Alternative (ELT) minus Existing Condition

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-86	-91	-82	-7	0	13	11	20	-20	-42	-61	-74
20%	-95	-72	-49	-81	-53	-38	28	15	-40	-71	-83	-86
30%	-35	-43	-26	-36	-42	-44	-83	-10	3	-19	-39	-43
40%	-55	-55	-54	-46	-44	-36	-58	-49	-21	-20	-34	-33
50%	-74	-75	-74	-35	-65	-48	-61	-24	-49	-84	-82	-68
60%	-32	-28	-52	-61	-83	-61	-62	-17	-36	-38	-41	-49
70%	-51	-58	-49	-69	-16	3	-20	17	-73	-63	-64	-87
80%	-87	-81	-58	-77	-24	-59	-13	-6	-24	-17	-19	-26
90%	61	47	32	19	58	34	61	124	72	40	44	69
Long Term												
Full Simulation Period[a]	-41	-41	-37	-31	-25	-19	-14	-6	-15	-29	-35	-39
Water Year Types[b]												
Wet (32%)	-31	-33	-22	-5	5	0	3	16	3	-18	-31	-37
Above Normal (15%)	-43	-40	-30	-23	-26	-11	-5	3	-16	-29	-37	-40
Below Normal (17%)	-46	-49	-50	-53	-42	-31	-27	-18	-21	-34	-40	-42
Dry (22%)	-58	-60	-60	-63	-57	-51	-45	-41	-46	-54	-58	-60
Critical (15%)	-25	-25	-26	-25	-17	-9	-1	1	-2	-6	-5	-5

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-45-2. New Melones Reservoir, End of Month Storage

Existing Condition

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,870	1,878	1,931	1,952	1,970	1,990	1,970	2,080	2,142	2,068	1,973	1,914
20%	1,757	1,758	1,787	1,845	1,932	1,956	1,875	1,928	1,990	1,947	1,854	1,799
30%	1,629	1,648	1,690	1,774	1,850	1,874	1,848	1,848	1,850	1,788	1,704	1,666
40%	1,513	1,554	1,627	1,689	1,764	1,778	1,745	1,734	1,708	1,638	1,568	1,535
50%	1,444	1,450	1,476	1,544	1,640	1,668	1,629	1,635	1,619	1,577	1,497	1,466
60%	1,320	1,346	1,383	1,449	1,504	1,497	1,481	1,498	1,500	1,436	1,369	1,343
70%	1,173	1,204	1,239	1,293	1,301	1,302	1,274	1,291	1,340	1,274	1,216	1,201
80%	990	976	991	1,013	1,055	1,138	1,094	1,144	1,123	1,062	1,003	975
90%	674	694	727	747	760	770	697	674	775	742	682	655
Long Term												
Full Simulation Period[a]	1,342	1,353	1,387	1,438	1,492	1,516	1,492	1,526	1,547	1,485	1,406	1,364
Water Year Types[b]												
Wet (32%)	1,523	1,536	1,589	1,680	1,763	1,807	1,823	1,932	2,015	1,954	1,850	1,787
Above Normal (15%)	1,289	1,316	1,367	1,451	1,537	1,591	1,572	1,638	1,666	1,602	1,522	1,484
Below Normal (17%)	1,287	1,297	1,322	1,357	1,417	1,438	1,416	1,476	1,489	1,425	1,349	1,314
Dry (22%)	1,403	1,407	1,424	1,438	1,461	1,477	1,418	1,375	1,350	1,287	1,221	1,190
Critical (15%)	976	977	990	996	994	963	895	820	777	721	670	647

Alternative 2D (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,784	1,787	1,850	1,945	1,970	2,003	1,981	2,100	2,122	2,026	1,912	1,840
20%	1,663	1,686	1,739	1,765	1,879	1,918	1,904	1,943	1,950	1,875	1,771	1,714
30%	1,594	1,606	1,664	1,738	1,808	1,831	1,765	1,839	1,853	1,769	1,666	1,623
40%	1,459	1,500	1,573	1,643	1,720	1,742	1,687	1,686	1,687	1,618	1,534	1,502
50%	1,370	1,375	1,402	1,509	1,575	1,621	1,568	1,611	1,571	1,493	1,415	1,399
60%	1,288	1,318	1,331	1,388	1,422	1,436	1,419	1,482	1,464	1,398	1,328	1,294
70%	1,123	1,146	1,191	1,224	1,285	1,304	1,254	1,308	1,267	1,211	1,153	1,114
80%	903	895	933	937	1,031	1,079	1,082	1,138	1,099	1,046	985	950
90%	734	741	759	766	817	804	758	797	847	782	726	725
Long Term												
Full Simulation Period[a]	1,302	1,312	1,350	1,407	1,468	1,497	1,478	1,520	1,532	1,457	1,370	1,325
Water Year Types[b]												
Wet (32%)	1,491	1,503	1,567	1,675	1,768	1,807	1,826	1,948	2,019	1,935	1,819	1,750
Above Normal (15%)	1,245	1,276	1,337	1,427	1,511	1,580	1,567	1,641	1,650	1,573	1,485	1,444
Below Normal (17%)	1,241	1,248	1,272	1,305	1,375	1,407	1,389	1,458	1,468	1,391	1,309	1,273
Dry (22%)	1,345	1,348	1,364	1,375	1,404	1,426	1,373	1,334	1,304	1,233	1,163	1,130
Critical (15%)	951	952	964	971	977	954	894	821	775	715	665	642

Alternative 2D (ELT) minus Existing Condition

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-86	-91	-81	-7	0	13	11	20	-20	-42	-61	-74
20%	-94	-72	-48	-81	-53	-38	28	15	-40	-71	-83	-86
30%	-35	-43	-26	-36	-41	-44	-83	-10	3	-19	-39	-43
40%	-55	-54	-54	-46	-44	-36	-58	-49	-21	-20	-34	-33
50%	-74	-75	-74	-35	-64	-48	-61	-24	-49	-84	-82	-67
60%	-32	-28	-52	-60	-82	-61	-62	-17	-36	-38	-41	-49
70%	-50	-57	-48	-69	-16	3	-19	17	-73	-63	-63	-86
80%	-86	-81	-58	-76	-24	-59	-12	-5	-24	-16	-18	-25
90%	61	47	32	19	58	34	61	124	72	40	44	69
Long Term												
Full Simulation Period[a]	-40	-41	-37	-31	-24	-19	-14	-6	-15	-28	-35	-38
Water Year Types[b]												
Wet (32%)	-31	-33	-22	-5	5	0	3	16	3	-18	-31	-37
Above Normal (15%)	-43	-40	-30	-23	-26	-11	-5	3	-16	-29	-37	-40
Below Normal (17%)	-46	-48	-50	-52	-42	-31	-26	-17	-21	-33	-40	-41
Dry (22%)	-58	-60	-60	-62	-57	-51	-45	-41	-45	-54	-58	-60
Critical (15%)	-25	-25	-26	-25	-17	-9	-1	2	-2	-6	-5	-5

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-45-3. New Melones Reservoir, End of Month Storage

Existing Condition

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,870	1,878	1,931	1,952	1,970	1,990	1,970	2,080	2,142	2,068	1,973	1,914
20%	1,757	1,758	1,787	1,845	1,932	1,956	1,875	1,928	1,990	1,947	1,854	1,799
30%	1,629	1,648	1,690	1,774	1,850	1,874	1,848	1,848	1,850	1,788	1,704	1,666
40%	1,513	1,554	1,627	1,689	1,764	1,778	1,745	1,734	1,708	1,638	1,568	1,535
50%	1,444	1,450	1,476	1,544	1,640	1,668	1,629	1,635	1,619	1,577	1,497	1,466
60%	1,320	1,346	1,383	1,449	1,504	1,497	1,481	1,498	1,500	1,436	1,369	1,343
70%	1,173	1,204	1,239	1,293	1,301	1,302	1,274	1,291	1,340	1,274	1,216	1,201
80%	990	976	991	1,013	1,055	1,138	1,094	1,144	1,123	1,062	1,003	975
90%	674	694	727	747	760	770	697	674	775	742	682	655
Long Term												
Full Simulation Period[a]	1,342	1,353	1,387	1,438	1,492	1,516	1,492	1,526	1,547	1,485	1,406	1,364
Water Year Types[b]												
Wet (32%)	1,523	1,536	1,589	1,680	1,763	1,807	1,823	1,932	2,015	1,954	1,850	1,787
Above Normal (15%)	1,289	1,316	1,367	1,451	1,537	1,591	1,572	1,638	1,666	1,602	1,522	1,484
Below Normal (17%)	1,287	1,297	1,322	1,357	1,417	1,438	1,416	1,476	1,489	1,425	1,349	1,314
Dry (22%)	1,403	1,407	1,424	1,438	1,461	1,477	1,418	1,375	1,350	1,287	1,221	1,190
Critical (15%)	976	977	990	996	994	963	895	820	777	721	670	647

Alternative 4A (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,784	1,786	1,849	1,945	1,970	2,003	1,981	2,100	2,122	2,026	1,912	1,840
20%	1,662	1,686	1,738	1,765	1,878	1,918	1,904	1,943	1,950	1,875	1,771	1,714
30%	1,594	1,606	1,664	1,737	1,808	1,830	1,765	1,838	1,853	1,769	1,666	1,623
40%	1,458	1,499	1,573	1,643	1,719	1,742	1,687	1,685	1,686	1,618	1,534	1,502
50%	1,371	1,375	1,402	1,509	1,575	1,621	1,568	1,610	1,570	1,493	1,414	1,398
60%	1,288	1,318	1,331	1,388	1,421	1,435	1,419	1,481	1,464	1,398	1,328	1,293
70%	1,122	1,146	1,191	1,223	1,285	1,304	1,253	1,307	1,267	1,210	1,152	1,114
80%	903	895	933	936	1,030	1,079	1,081	1,138	1,099	1,045	984	949
90%	734	741	759	765	817	804	758	797	847	782	726	725
Long Term												
Full Simulation Period[a]	1,301	1,311	1,350	1,406	1,467	1,497	1,478	1,520	1,532	1,456	1,370	1,325
Water Year Types[b]												
Wet (32%)	1,491	1,503	1,567	1,674	1,768	1,807	1,826	1,948	2,018	1,935	1,819	1,749
Above Normal (15%)	1,245	1,275	1,337	1,427	1,511	1,580	1,567	1,641	1,650	1,573	1,485	1,444
Below Normal (17%)	1,241	1,248	1,272	1,305	1,374	1,407	1,389	1,458	1,467	1,391	1,308	1,272
Dry (22%)	1,345	1,347	1,363	1,375	1,404	1,425	1,373	1,334	1,304	1,232	1,163	1,130
Critical (15%)	951	952	964	971	976	954	894	821	775	715	665	642

Alternative 4A (ELT) minus Existing Condition

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-86	-91	-82	-7	0	13	11	20	-20	-42	-61	-74
20%	-95	-72	-49	-81	-53	-38	28	15	-40	-71	-83	-86
30%	-35	-43	-26	-36	-42	-45	-83	-10	3	-19	-39	-43
40%	-55	-55	-54	-46	-44	-36	-58	-50	-22	-20	-34	-33
50%	-74	-75	-74	-35	-65	-48	-62	-25	-49	-85	-83	-68
60%	-32	-28	-52	-61	-83	-62	-62	-17	-36	-38	-42	-49
70%	-51	-58	-49	-70	-16	3	-21	16	-73	-63	-64	-87
80%	-87	-82	-58	-77	-24	-59	-13	-6	-24	-16	-19	-26
90%	60	47	32	19	58	34	61	124	72	40	44	69
Long Term												
Full Simulation Period[a]	-41	-41	-37	-32	-25	-20	-15	-6	-15	-29	-36	-39
Water Year Types[b]												
Wet (32%)	-31	-33	-22	-5	5	0	3	16	3	-18	-31	-37
Above Normal (15%)	-44	-40	-30	-24	-26	-11	-5	3	-16	-29	-37	-40
Below Normal (17%)	-46	-49	-50	-53	-42	-31	-27	-18	-22	-34	-40	-42
Dry (22%)	-58	-60	-60	-63	-57	-52	-45	-41	-46	-54	-58	-60
Critical (15%)	-25	-25	-26	-25	-17	-9	-1	1	-2	-6	-5	-5

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-45-4. New Melones Reservoir, End of Month Storage

Existing Condition

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,870	1,878	1,931	1,952	1,970	1,990	1,970	2,080	2,142	2,068	1,973	1,914
20%	1,757	1,758	1,787	1,845	1,932	1,956	1,875	1,928	1,990	1,947	1,854	1,799
30%	1,629	1,648	1,690	1,774	1,850	1,874	1,848	1,848	1,850	1,788	1,704	1,666
40%	1,513	1,554	1,627	1,689	1,764	1,778	1,745	1,734	1,708	1,638	1,568	1,535
50%	1,444	1,450	1,476	1,544	1,640	1,668	1,629	1,635	1,619	1,577	1,497	1,466
60%	1,320	1,346	1,383	1,449	1,504	1,497	1,481	1,498	1,500	1,436	1,369	1,343
70%	1,173	1,204	1,239	1,293	1,301	1,302	1,274	1,291	1,340	1,274	1,216	1,201
80%	990	976	991	1,013	1,055	1,138	1,094	1,144	1,123	1,062	1,003	975
90%	674	694	727	747	760	770	697	674	775	742	682	655
Long Term												
Full Simulation Period[a]	1,342	1,353	1,387	1,438	1,492	1,516	1,492	1,526	1,547	1,485	1,406	1,364
Water Year Types[b]												
Wet (32%)	1,523	1,536	1,589	1,680	1,763	1,807	1,823	1,932	2,015	1,954	1,850	1,787
Above Normal (15%)	1,289	1,316	1,367	1,451	1,537	1,591	1,572	1,638	1,666	1,602	1,522	1,484
Below Normal (17%)	1,287	1,297	1,322	1,357	1,417	1,438	1,416	1,476	1,489	1,425	1,349	1,314
Dry (22%)	1,403	1,407	1,424	1,438	1,461	1,477	1,418	1,375	1,350	1,287	1,221	1,190
Critical (15%)	976	977	990	996	994	963	895	820	777	721	670	647

Alternative 5A (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,784	1,787	1,850	1,945	1,970	2,003	1,981	2,100	2,122	2,026	1,912	1,840
20%	1,663	1,686	1,739	1,765	1,879	1,918	1,904	1,943	1,950	1,875	1,771	1,714
30%	1,594	1,605	1,664	1,738	1,808	1,831	1,765	1,839	1,853	1,769	1,666	1,623
40%	1,459	1,500	1,573	1,643	1,720	1,742	1,687	1,686	1,687	1,618	1,534	1,502
50%	1,370	1,375	1,402	1,509	1,575	1,621	1,568	1,611	1,570	1,493	1,415	1,399
60%	1,288	1,318	1,331	1,388	1,422	1,436	1,419	1,482	1,464	1,398	1,328	1,294
70%	1,123	1,146	1,191	1,224	1,285	1,304	1,254	1,308	1,267	1,211	1,153	1,114
80%	903	895	931	936	1,030	1,078	1,082	1,137	1,097	1,046	985	949
90%	733	739	758	764	817	804	758	797	845	780	724	723
Long Term												
Full Simulation Period[a]	1,301	1,312	1,350	1,407	1,467	1,497	1,478	1,520	1,532	1,457	1,370	1,325
Water Year Types[b]												
Wet (32%)	1,491	1,503	1,567	1,675	1,768	1,807	1,826	1,948	2,018	1,935	1,819	1,750
Above Normal (15%)	1,245	1,276	1,337	1,427	1,511	1,580	1,567	1,641	1,650	1,573	1,485	1,444
Below Normal (17%)	1,241	1,248	1,272	1,305	1,375	1,407	1,389	1,458	1,468	1,391	1,309	1,272
Dry (22%)	1,345	1,347	1,364	1,375	1,404	1,425	1,373	1,334	1,304	1,232	1,163	1,130
Critical (15%)	951	952	963	971	976	954	893	821	775	715	664	641

Alternative 5A (ELT) minus Existing Condition

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-86	-91	-81	-7	0	13	11	20	-20	-42	-61	-74
20%	-94	-72	-49	-81	-53	-38	28	15	-40	-71	-83	-86
30%	-35	-43	-26	-36	-41	-44	-83	-10	3	-19	-39	-43
40%	-55	-54	-54	-46	-44	-36	-58	-49	-21	-20	-34	-33
50%	-74	-75	-74	-35	-64	-48	-61	-24	-49	-84	-82	-67
60%	-32	-28	-52	-60	-82	-61	-62	-17	-36	-38	-41	-49
70%	-51	-58	-49	-69	-16	3	-20	17	-73	-63	-63	-86
80%	-87	-81	-59	-77	-24	-59	-12	-6	-25	-16	-19	-25
90%	59	45	31	17	57	34	61	124	70	38	42	67
Long Term												
Full Simulation Period[a]	-41	-41	-37	-31	-24	-19	-14	-6	-15	-29	-35	-39
Water Year Types[b]												
Wet (32%)	-31	-33	-22	-5	5	0	3	16	3	-18	-31	-37
Above Normal (15%)	-43	-40	-30	-23	-26	-11	-5	3	-16	-29	-37	-40
Below Normal (17%)	-46	-49	-50	-52	-42	-31	-26	-17	-21	-33	-40	-41
Dry (22%)	-58	-60	-60	-63	-57	-51	-45	-41	-46	-54	-58	-60
Critical (15%)	-26	-26	-26	-25	-18	-9	-2	1	-3	-6	-5	-6

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-45-5. New Melones Reservoir, End of Month Storage

No Action Alternative (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,784	1,787	1,849	1,945	1,970	2,003	1,981	2,100	2,122	2,026	1,912	1,840
20%	1,662	1,686	1,738	1,765	1,878	1,918	1,904	1,943	1,950	1,875	1,771	1,714
30%	1,594	1,605	1,664	1,737	1,808	1,830	1,765	1,839	1,853	1,769	1,666	1,623
40%	1,458	1,499	1,573	1,643	1,720	1,742	1,687	1,685	1,687	1,618	1,534	1,502
50%	1,370	1,375	1,402	1,509	1,575	1,621	1,568	1,611	1,570	1,493	1,414	1,399
60%	1,288	1,318	1,331	1,388	1,421	1,436	1,419	1,481	1,464	1,398	1,328	1,294
70%	1,122	1,146	1,191	1,224	1,285	1,304	1,254	1,308	1,267	1,211	1,152	1,114
80%	903	895	933	936	1,030	1,078	1,081	1,138	1,099	1,045	984	949
90%	734	741	759	766	817	804	758	797	847	782	726	725
Long Term												
Full Simulation Period[a]	1,301	1,312	1,350	1,407	1,467	1,497	1,478	1,520	1,532	1,456	1,370	1,325
Water Year Types[b]												
Wet (32%)	1,491	1,503	1,567	1,675	1,768	1,807	1,826	1,948	2,018	1,935	1,819	1,749
Above Normal (15%)	1,245	1,276	1,337	1,427	1,511	1,580	1,567	1,641	1,650	1,573	1,485	1,444
Below Normal (17%)	1,241	1,248	1,272	1,305	1,375	1,407	1,389	1,458	1,468	1,391	1,308	1,272
Dry (22%)	1,345	1,347	1,363	1,375	1,404	1,425	1,373	1,334	1,304	1,232	1,163	1,130
Critical (15%)	951	952	964	971	976	954	894	821	775	715	665	642

Alternative 2D (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,784	1,787	1,850	1,945	1,970	2,003	1,981	2,100	2,122	2,026	1,912	1,840
20%	1,663	1,686	1,739	1,765	1,879	1,918	1,904	1,943	1,950	1,875	1,771	1,714
30%	1,594	1,606	1,664	1,738	1,808	1,831	1,765	1,839	1,853	1,769	1,666	1,623
40%	1,459	1,500	1,573	1,643	1,720	1,742	1,687	1,686	1,687	1,618	1,534	1,502
50%	1,370	1,375	1,402	1,509	1,575	1,621	1,568	1,611	1,571	1,493	1,415	1,399
60%	1,288	1,318	1,331	1,388	1,422	1,436	1,419	1,482	1,464	1,398	1,328	1,294
70%	1,123	1,146	1,191	1,224	1,285	1,304	1,254	1,308	1,267	1,211	1,153	1,114
80%	903	895	933	937	1,031	1,079	1,082	1,138	1,099	1,046	985	950
90%	734	741	759	766	817	804	758	797	847	782	726	725
Long Term												
Full Simulation Period[a]	1,302	1,312	1,350	1,407	1,468	1,497	1,478	1,520	1,532	1,457	1,370	1,325
Water Year Types[b]												
Wet (32%)	1,491	1,503	1,567	1,675	1,768	1,807	1,826	1,948	2,019	1,935	1,819	1,750
Above Normal (15%)	1,245	1,276	1,337	1,427	1,511	1,580	1,567	1,641	1,650	1,573	1,485	1,444
Below Normal (17%)	1,241	1,248	1,272	1,305	1,375	1,407	1,389	1,458	1,468	1,391	1,309	1,273
Dry (22%)	1,345	1,348	1,364	1,375	1,404	1,426	1,373	1,334	1,304	1,233	1,163	1,130
Critical (15%)	951	952	964	971	977	954	894	821	775	715	665	642

Alternative 2D (ELT) minus No Action Alternative (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	1	0	0	0	0	0	0	0	0	0
20%	1	0	1	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	1	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	1	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	1	1	0	0	0	0	0	0
70%	1	0	0	0	0	0	0	0	0	0	0	1
80%	1	0	0	1	0	0	1	0	0	1	1	1
90%	0	0	0	0	0	0	0	0	**0**	0	**0**	**0**
Long Term												
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]												
Wet (32%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (15%)	0	0	0	0	0	0	0	**0**	0	0	0	0
Below Normal (17%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry (22%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-45-6. New Melones Reservoir, End of Month Storage

No Action Alternative (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,784	1,787	1,849	1,945	1,970	2,003	1,981	2,100	2,122	2,026	1,912	1,840
20%	1,662	1,686	1,738	1,765	1,878	1,918	1,904	1,943	1,950	1,875	1,771	1,714
30%	1,594	1,605	1,664	1,737	1,808	1,830	1,765	1,839	1,853	1,769	1,666	1,623
40%	1,458	1,499	1,573	1,643	1,720	1,742	1,687	1,685	1,687	1,618	1,534	1,502
50%	1,370	1,375	1,402	1,509	1,575	1,621	1,568	1,611	1,570	1,493	1,414	1,399
60%	1,288	1,318	1,331	1,388	1,421	1,436	1,419	1,481	1,464	1,398	1,328	1,294
70%	1,122	1,146	1,191	1,224	1,285	1,304	1,254	1,308	1,267	1,211	1,152	1,114
80%	903	895	933	936	1,030	1,078	1,081	1,138	1,099	1,045	984	949
90%	734	741	759	766	817	804	758	797	847	782	726	725
Long Term												
Full Simulation Period[a]	1,301	1,312	1,350	1,407	1,467	1,497	1,478	1,520	1,532	1,456	1,370	1,325
Water Year Types[b]												
Wet (32%)	1,491	1,503	1,567	1,675	1,768	1,807	1,826	1,948	2,018	1,935	1,819	1,749
Above Normal (15%)	1,245	1,276	1,337	1,427	1,511	1,580	1,567	1,641	1,650	1,573	1,485	1,444
Below Normal (17%)	1,241	1,248	1,272	1,305	1,375	1,407	1,389	1,458	1,468	1,391	1,308	1,272
Dry (22%)	1,345	1,347	1,363	1,375	1,404	1,425	1,373	1,334	1,304	1,232	1,163	1,130
Critical (15%)	951	952	964	971	976	954	894	821	775	715	665	642

Alternative 4A (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,784	1,786	1,849	1,945	1,970	2,003	1,981	2,100	2,122	2,026	1,912	1,840
20%	1,662	1,686	1,738	1,765	1,878	1,918	1,904	1,943	1,950	1,875	1,771	1,714
30%	1,594	1,606	1,664	1,737	1,808	1,830	1,765	1,838	1,853	1,769	1,666	1,623
40%	1,458	1,499	1,573	1,643	1,719	1,742	1,687	1,685	1,686	1,618	1,534	1,502
50%	1,371	1,375	1,402	1,509	1,575	1,621	1,568	1,610	1,570	1,493	1,414	1,398
60%	1,288	1,318	1,331	1,388	1,421	1,435	1,419	1,481	1,464	1,398	1,328	1,293
70%	1,122	1,146	1,191	1,223	1,285	1,304	1,253	1,307	1,267	1,210	1,152	1,114
80%	903	895	933	936	1,030	1,079	1,081	1,138	1,099	1,045	984	949
90%	734	741	759	765	817	804	758	797	847	782	726	725
Long Term												
Full Simulation Period[a]	1,301	1,311	1,350	1,406	1,467	1,497	1,478	1,520	1,532	1,456	1,370	1,325
Water Year Types[b]												
Wet (32%)	1,491	1,503	1,567	1,674	1,768	1,807	1,826	1,948	2,018	1,935	1,819	1,749
Above Normal (15%)	1,245	1,275	1,337	1,427	1,511	1,580	1,567	1,641	1,650	1,573	1,485	1,444
Below Normal (17%)	1,241	1,248	1,272	1,305	1,374	1,407	1,389	1,458	1,467	1,391	1,308	1,272
Dry (22%)	1,345	1,347	1,363	1,375	1,404	1,425	1,373	1,334	1,304	1,232	1,163	1,130
Critical (15%)	951	952	964	971	976	954	894	821	775	715	665	642

Alternative 4A (ELT) minus No Action Alternative (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	-1	-1	-1	0	0	0	0	0	0
70%	0	0	0	0	0	0	-1	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]												
Wet (32%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (15%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (17%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry (22%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-45-7. New Melones Reservoir, End of Month Storage

No Action Alternative (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,784	1,787	1,849	1,945	1,970	2,003	1,981	2,100	2,122	2,026	1,912	1,840
20%	1,662	1,686	1,738	1,765	1,878	1,918	1,904	1,943	1,950	1,875	1,771	1,714
30%	1,594	1,605	1,664	1,737	1,808	1,830	1,765	1,839	1,853	1,769	1,666	1,623
40%	1,458	1,499	1,573	1,643	1,720	1,742	1,687	1,685	1,687	1,618	1,534	1,502
50%	1,370	1,375	1,402	1,509	1,575	1,621	1,568	1,611	1,570	1,493	1,414	1,399
60%	1,288	1,318	1,331	1,388	1,421	1,436	1,419	1,481	1,464	1,398	1,328	1,294
70%	1,122	1,146	1,191	1,224	1,285	1,304	1,254	1,308	1,267	1,211	1,152	1,114
80%	903	895	933	936	1,030	1,078	1,081	1,138	1,099	1,045	984	949
90%	734	741	759	766	817	804	758	797	847	782	726	725
Long Term												
Full Simulation Period[a]	1,301	1,312	1,350	1,407	1,467	1,497	1,478	1,520	1,532	1,456	1,370	1,325
Water Year Types[b]												
Wet (32%)	1,491	1,503	1,567	1,675	1,768	1,807	1,826	1,948	2,018	1,935	1,819	1,749
Above Normal (15%)	1,245	1,276	1,337	1,427	1,511	1,580	1,567	1,641	1,650	1,573	1,485	1,444
Below Normal (17%)	1,241	1,248	1,272	1,305	1,375	1,407	1,389	1,458	1,468	1,391	1,308	1,272
Dry (22%)	1,345	1,347	1,363	1,375	1,404	1,425	1,373	1,334	1,304	1,232	1,163	1,130
Critical (15%)	951	952	964	971	976	954	894	821	775	715	665	642

Alternative 5A (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,784	1,787	1,850	1,945	1,970	2,003	1,981	2,100	2,122	2,026	1,912	1,840
20%	1,663	1,686	1,739	1,765	1,879	1,918	1,904	1,943	1,950	1,875	1,771	1,714
30%	1,594	1,605	1,664	1,738	1,808	1,831	1,765	1,839	1,853	1,769	1,666	1,623
40%	1,459	1,500	1,573	1,643	1,720	1,742	1,687	1,686	1,687	1,618	1,534	1,502
50%	1,370	1,375	1,402	1,509	1,575	1,621	1,568	1,611	1,570	1,493	1,415	1,399
60%	1,288	1,318	1,331	1,388	1,422	1,436	1,419	1,482	1,464	1,398	1,328	1,294
70%	1,123	1,146	1,191	1,224	1,285	1,304	1,254	1,308	1,267	1,211	1,153	1,114
80%	903	895	931	936	1,030	1,078	1,082	1,137	1,097	1,046	985	949
90%	733	739	758	764	817	804	758	797	845	780	724	723
Long Term												
Full Simulation Period[a]	1,301	1,312	1,350	1,407	1,467	1,497	1,478	1,520	1,532	1,457	1,370	1,325
Water Year Types[b]												
Wet (32%)	1,491	1,503	1,567	1,675	1,768	1,807	1,826	1,948	2,018	1,935	1,819	1,750
Above Normal (15%)	1,245	1,276	1,337	1,427	1,511	1,580	1,567	1,641	1,650	1,573	1,485	1,444
Below Normal (17%)	1,241	1,248	1,272	1,305	1,375	1,407	1,389	1,458	1,468	1,391	1,309	1,272
Dry (22%)	1,345	1,347	1,364	1,375	1,404	1,425	1,373	1,334	1,304	1,232	1,163	1,130
Critical (15%)	951	952	963	971	976	954	893	821	775	715	664	641

Alternative 5A (ELT) minus No Action Alternative (ELT)

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	1	0	0	0	0	0	0	0	0	0
20%	1	0	0	0	1	0	0	0	0	0	0	0
30%	0	0	0	0	0	1	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	1	1	0	0	0	0	0	0
70%	1	0	0	0	0	0	0	0	0	0	0	1
80%	0	0	-2	1	0	0	0	-1	-1	0	0	0
90%	-2	-2	-2	-2	0	0	0	0	-2	-2	-2	-2
Long Term												
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]												
Wet (32%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (15%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (17%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry (22%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	-1	-1	0	0	0

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

C.46. Delta Outflow

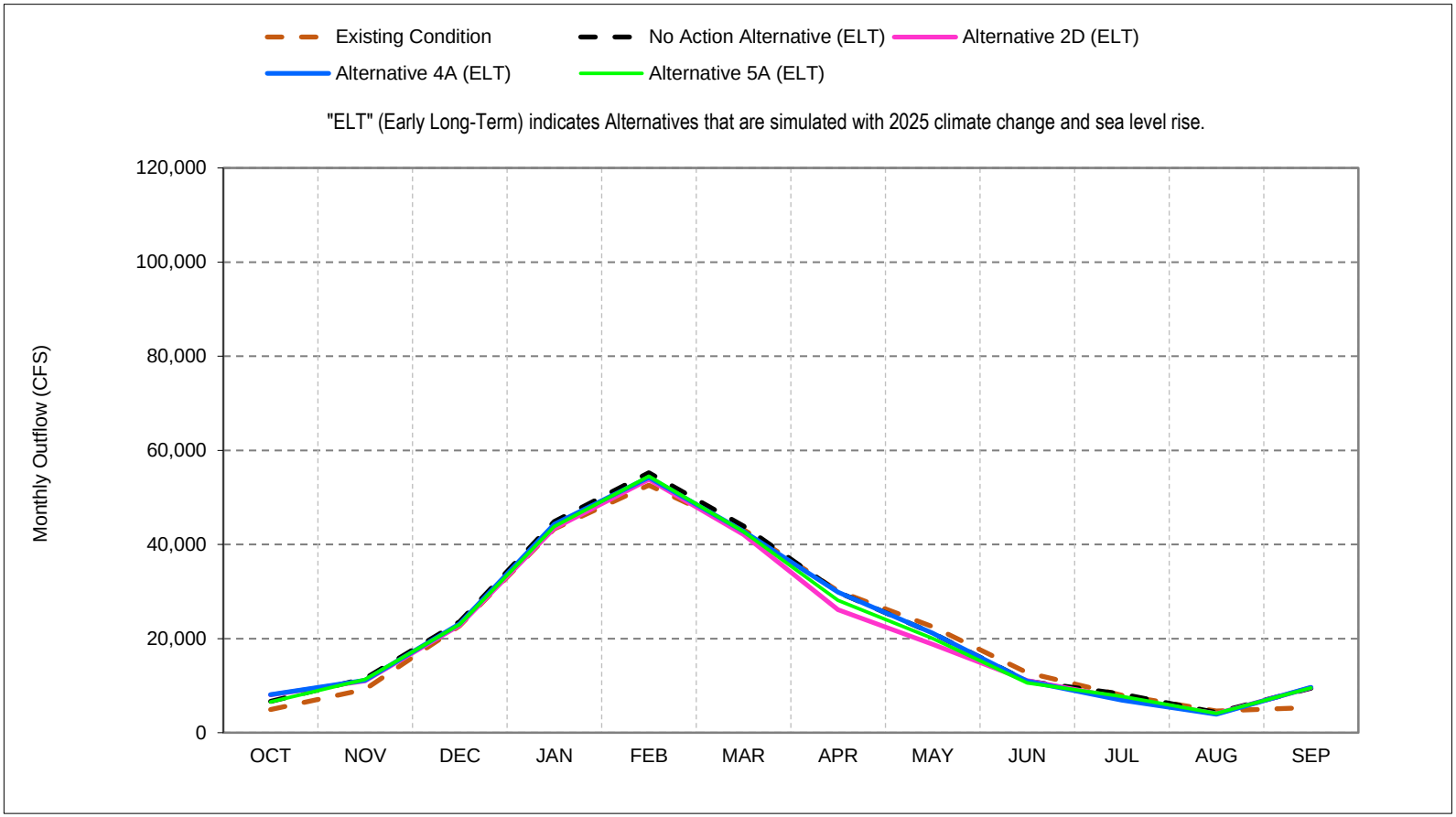
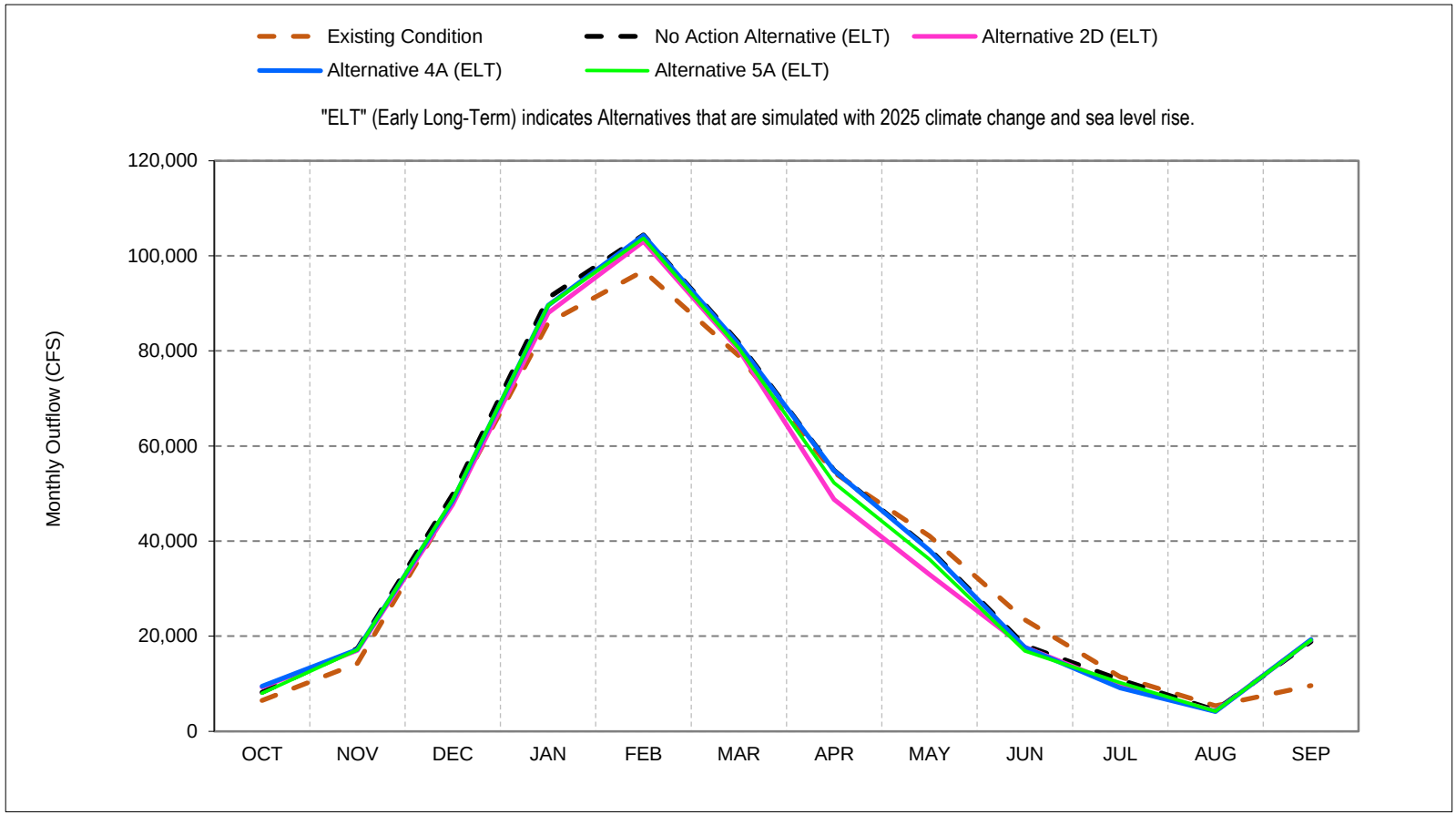
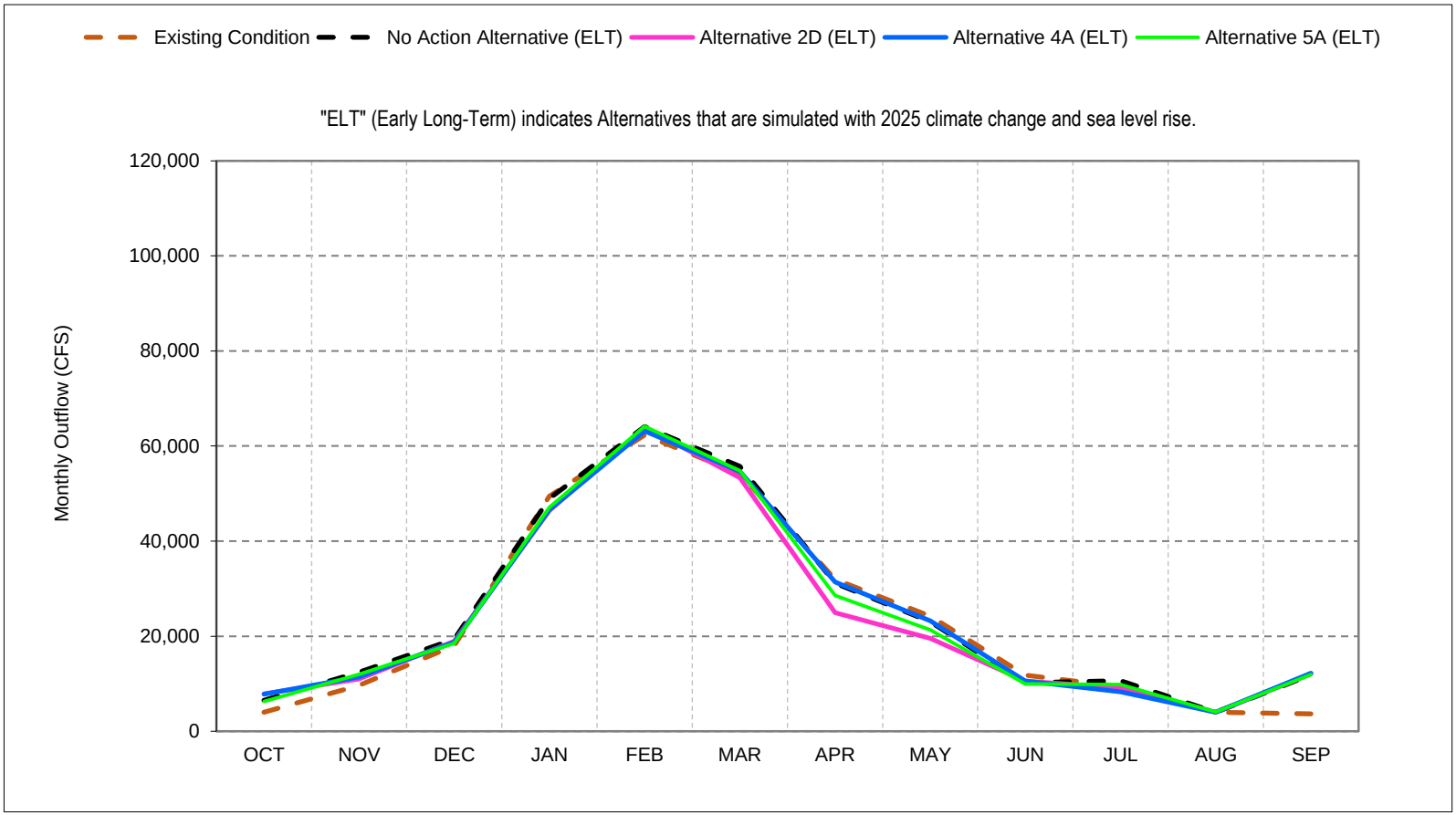


Figure C-46-1. Sacramento/San Joaquin River Delta Outflow, Long-Term Average Outflow



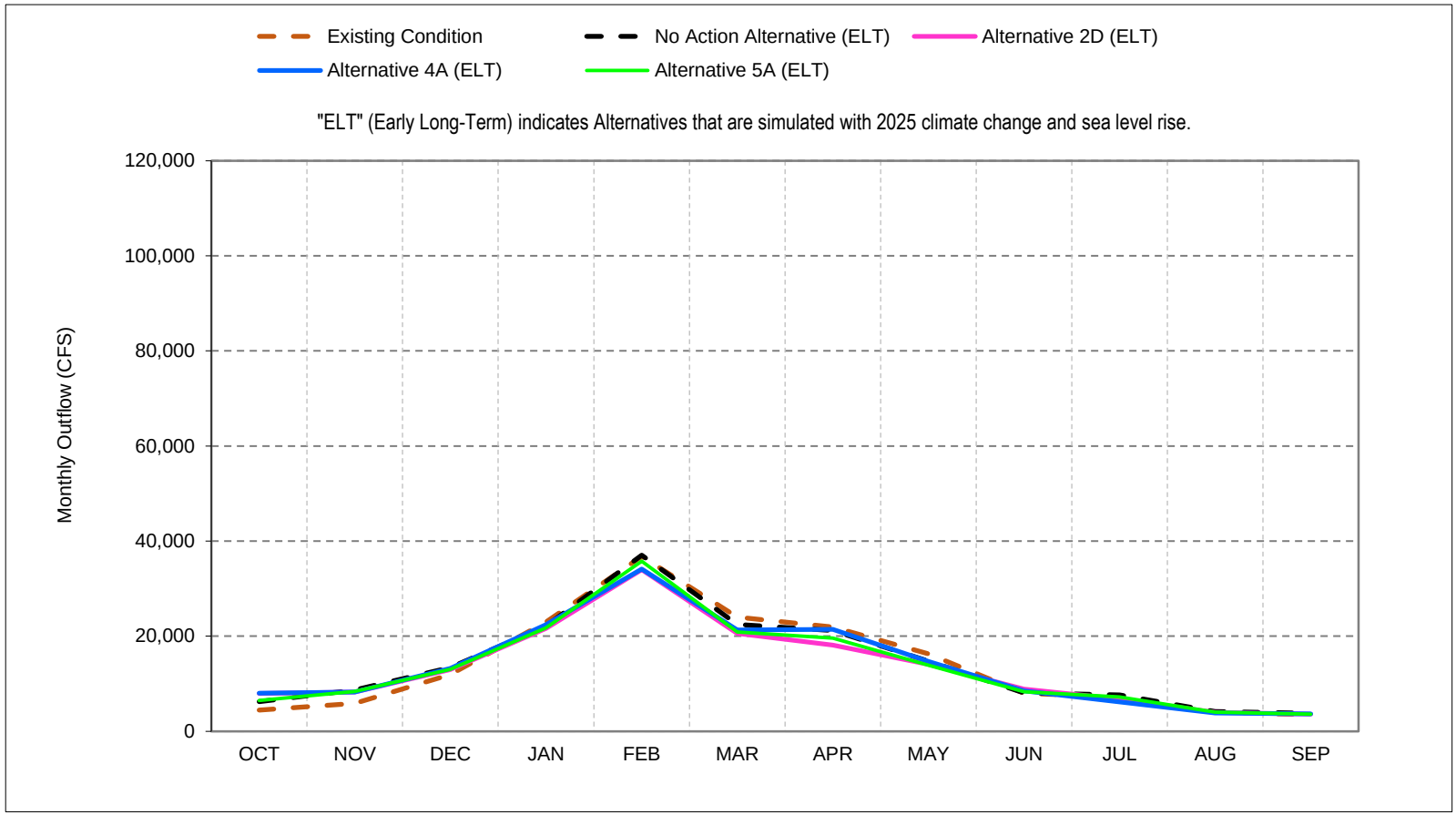
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-46-2. Sacramento/San Joaquin River Delta Outflow, Wet Year* Average Outflow



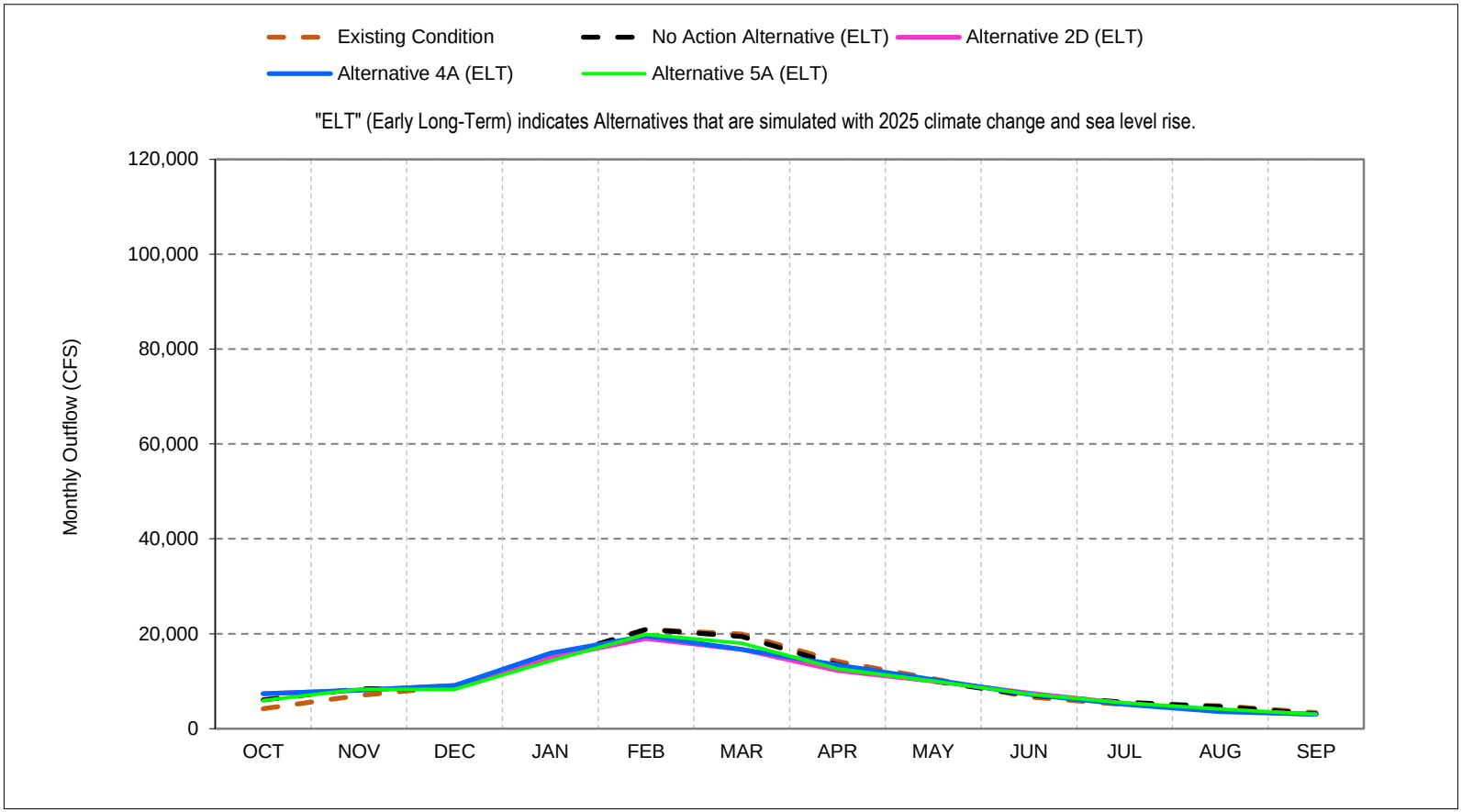
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-46-3. Sacramento/San Joaquin River Delta Outflow, Above Normal Year* Average Outflow



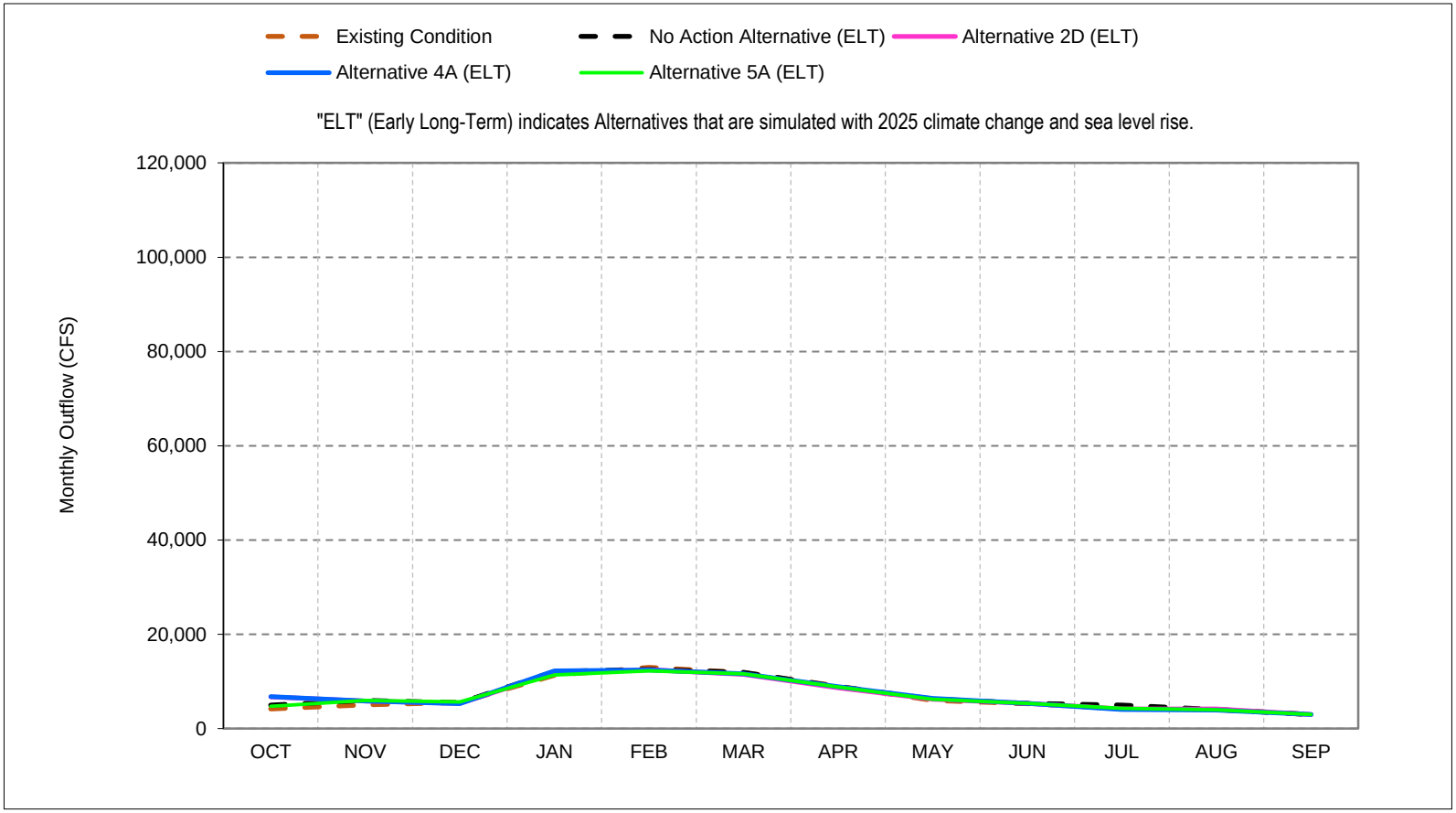
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-46-4. Sacramento/San Joaquin River Delta Outflow, Below Normal Year* Average Outflow



*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-46-5. Sacramento/San Joaquin River Delta Outflow, Dry Year* Average Outflow



*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-46-6. Sacramento/San Joaquin River Delta Outflow, Critical Year* Average Outflow

Table C-46-1-1. Sacramento/San Joaquin River Delta, Monthly Outflow Rate

Existing Condition

	Monthly Outflow Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	6,715	16,643	65,896	106,566	123,159	91,606	68,957	53,731	29,717	11,010	5,650	10,109	44,440
20%	4,603	7,613	35,641	67,111	77,058	62,905	49,306	30,361	14,749	8,727	4,745	7,872	33,383
30%	4,351	6,239	20,351	47,588	62,823	46,968	29,154	21,936	10,328	8,000	4,448	4,079	27,538
40%	4,008	5,799	11,724	31,660	51,243	33,850	26,561	19,505	7,942	8,000	4,000	3,853	21,405
50%	4,000	5,100	8,176	23,462	36,121	26,533	19,193	16,166	7,270	8,000	4,000	3,606	14,765
60%	4,000	4,783	6,464	17,526	23,293	21,654	15,823	12,445	7,100	6,500	4,000	3,401	12,401
70%	4,000	4,500	5,283	12,909	17,199	16,769	12,969	10,254	6,716	5,000	4,000	3,078	10,505
80%	4,000	4,500	5,014	9,907	13,613	12,799	11,160	8,720	6,300	5,000	4,000	3,000	8,963
90%	3,817	4,500	4,500	8,652	9,542	9,714	9,643	7,100	5,187	4,300	4,000	3,000	7,328
Long Term													
Full Simulation Period[a]	4,931	9,193	22,714	43,289	52,594	43,172	30,099	22,517	12,765	7,951	4,618	5,334	21,598
Water Year Types[b]													
Wet (32%)	6,487	14,232	48,185	85,900	96,835	78,956	54,394	41,040	23,451	11,441	5,341	9,569	39,652
Above Normal (15%)	4,021	9,683	18,014	49,448	62,321	54,171	31,975	24,200	11,801	9,430	4,000	3,672	23,561
Below Normal (17%)	4,477	5,864	11,950	22,968	36,766	24,029	21,928	16,299	8,004	7,151	4,000	3,445	13,907
Dry (22%)	4,157	6,943	8,884	14,736	20,915	19,880	14,142	10,487	6,636	5,024	4,829	3,350	9,999
Critical (15%)	4,158	5,045	5,531	11,343	12,991	11,911	9,053	6,000	5,322	4,238	4,077	3,000	6,889

No Action Alternative (ELT)

	Monthly Outflow Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	10,148	15,000	72,634	111,129	134,922	87,666	68,863	48,230	20,581	12,615	4,990	19,375	46,274
20%	9,688	14,585	34,818	73,005	88,376	67,761	45,685	28,486	10,494	11,036	4,467	19,063	35,197
30%	9,375	13,662	18,281	50,812	63,850	45,800	28,825	19,921	8,524	9,350	4,243	17,629	28,782
40%	6,813	10,156	11,835	28,558	51,728	33,345	25,325	16,689	7,780	8,024	4,039	11,094	23,341
50%	5,380	9,844	8,912	21,394	35,397	25,486	18,934	14,068	7,243	8,000	4,000	3,651	14,811
60%	4,000	6,113	5,862	17,225	22,640	20,607	15,328	12,042	7,100	7,210	4,000	3,050	12,678
70%	4,000	4,506	4,745	12,881	16,005	17,543	12,028	9,709	6,811	5,549	4,000	3,000	10,184
80%	4,000	4,500	4,500	10,209	13,057	12,149	10,194	8,409	6,443	5,000	4,000	3,000	9,078
90%	3,596	3,604	4,500	9,047	8,971	9,325	9,673	7,269	5,393	4,940	3,943	3,000	7,657
Long Term													
Full Simulation Period[a]	6,664	11,525	23,571	44,851	55,230	43,918	29,844	21,147	10,929	8,236	4,297	9,475	22,474
Water Year Types[b]													
Wet (32%)	8,166	17,373	49,798	91,148	104,394	81,757	54,879	38,281	18,082	10,811	4,415	18,873	41,498
Above Normal (15%)	6,529	12,428	19,364	48,940	64,086	55,697	31,177	23,075	10,222	10,642	4,010	11,836	24,834
Below Normal (17%)	6,237	8,681	13,395	22,093	37,032	22,482	21,211	14,721	8,059	7,612	4,116	3,774	14,118
Dry (22%)	6,028	8,385	8,482	14,781	20,910	19,393	13,480	9,997	7,023	5,573	4,633	3,077	10,147
Critical (15%)	4,997	5,981	5,457	12,104	12,563	11,949	8,890	6,322	5,346	4,976	4,037	3,000	7,135

No Action Alternative (ELT) minus Existing Condition

	Monthly Outflow Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	3,433	-1,643	6,739	4,563	11,763	-3,940	-94	-5,501	-9,136	1,605	-660	9,266	1,834
20%	5,085	6,972	-824	5,894	11,318	4,856	-3,622	-1,875	-4,255	2,309	-278	11,190	1,815
30%	5,024	7,423	-2,071	3,224	1,027	-1,168	-329	-2,015	-1,804	1,350	-205	13,550	1,244
40%	2,804	4,358	111	-3,102	485	-505	-1,236	-2,816	-162	24	39	7,241	1,937
50%	1,380	4,744	735	-2,068	-724	-1,047	-259	-2,097	-27	0	0	45	45
60%	0	1,330	-602	-301	-653	-1,047	-494	-402	0	710	0	-351	276
70%	0	6	-539	-27	-1,194	775	-941	-545	95	549	0	-78	-321
80%	0	0	-514	302	-555	-650	-966	-311	143	0	0	0	115
90%	-221	-896	0	395	-572	-389	30	169	206	639	-57	0	329
Long Term													
Full Simulation Period[a]	1,733	2,332	857	1,562	2,636	746	-255	-1,369	-1,835	285	-321	4,141	876
Water Year Types[b]													
Wet (32%)	1,680	3,141	1,613	5,248	7,559	2,801	485	-2,759	-5,369	-629	-926	9,304	1,846
Above Normal (15%)	2,508	2,745	1,350	-508	1,764	1,527	-798	-1,125	-1,580	1,212	10	8,164	1,272
Below Normal (17%)	1,761	2,817	1,445	-875	265	-1,547	-717	-1,578	55	461	116	329	211
Dry (22%)	1,871	1,442	-402	46	-5	-487	-662	-491	388	549	-195	-273	148
Critical (15%)	839	937	-74	762	-428	38	-163	322	24	738	-40	0	246

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-46-1-2. Sacramento/San Joaquin River Delta, Monthly Outflow Rate

Existing Condition

	Monthly Outflow Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	6,715	16,643	65,896	106,566	123,159	91,606	68,957	53,731	29,717	11,010	5,650	10,109	44,440
20%	4,603	7,613	35,641	67,111	77,058	62,905	49,306	30,361	14,749	8,727	4,745	7,872	33,383
30%	4,351	6,239	20,351	47,588	62,823	46,968	29,154	21,936	10,328	8,000	4,448	4,079	27,538
40%	4,008	5,799	11,724	31,660	51,243	33,850	26,561	19,505	7,942	8,000	4,000	3,853	21,405
50%	4,000	5,100	8,176	23,462	36,121	26,533	19,193	16,166	7,270	8,000	4,000	3,606	14,765
60%	4,000	4,783	6,464	17,526	23,293	21,654	15,823	12,445	7,100	6,500	4,000	3,401	12,401
70%	4,000	4,500	5,283	12,909	17,199	16,769	12,969	10,254	6,716	5,000	4,000	3,078	10,505
80%	4,000	4,500	5,014	9,907	13,613	12,799	11,160	8,720	6,300	5,000	4,000	3,000	8,963
90%	3,817	4,500	4,500	8,652	9,542	9,714	9,643	7,100	5,187	4,300	4,000	3,000	7,328
Long Term													
Full Simulation Period[a]	4,931	9,193	22,714	43,289	52,594	43,172	30,099	22,517	12,765	7,951	4,618	5,334	21,598
Water Year Types[b]													
Wet (32%)	6,487	14,232	48,185	85,900	96,835	78,956	54,394	41,040	23,451	11,441	5,341	9,569	39,652
Above Normal (15%)	4,021	9,683	18,014	49,448	62,321	54,171	31,975	24,200	11,801	9,430	4,000	3,672	23,561
Below Normal (17%)	4,477	5,864	11,950	22,968	36,766	24,029	21,928	16,299	8,004	7,151	4,000	3,445	13,907
Dry (22%)	4,157	6,943	8,884	14,736	20,915	19,880	14,142	10,487	6,636	5,024	4,829	3,350	9,999
Critical (15%)	4,158	5,045	5,531	11,343	12,991	11,911	9,053	6,000	5,322	4,238	4,077	3,000	6,889

Alternative 2D (ELT)

	Monthly Outflow Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	9,969	15,121	63,188	106,256	139,874	85,528	61,484	39,703	16,714	10,157	4,357	19,828	44,188
20%	9,375	14,688	33,624	72,778	86,943	66,164	39,778	19,060	11,583	9,048	4,059	19,656	34,303
30%	9,172	13,633	17,158	43,436	59,455	40,928	23,185	16,507	9,619	8,390	4,000	18,232	27,418
40%	8,079	9,625	12,813	27,279	48,260	32,092	18,098	15,341	9,013	8,000	4,000	11,406	20,496
50%	7,671	8,672	9,422	22,831	32,682	23,445	15,447	13,573	8,167	8,000	4,000	3,000	14,194
60%	7,470	4,500	6,738	15,976	20,376	17,456	14,027	12,391	7,650	6,500	4,000	3,000	12,509
70%	7,295	4,500	4,584	13,793	15,681	15,019	11,055	9,806	7,197	5,000	4,000	3,000	9,992
80%	6,784	4,500	4,505	11,719	12,840	11,781	9,929	9,013	7,100	5,000	3,766	3,000	8,933
90%	5,155	3,500	4,500	9,347	9,333	9,568	9,310	7,116	5,848	4,000	3,500	3,000	7,596
Long Term													
Full Simulation Period[a]	8,038	11,043	22,867	43,409	53,837	42,118	26,162	18,819	11,098	7,330	4,036	9,568	21,527
Water Year Types[b]													
Wet (32%)	9,263	17,030	47,633	87,998	103,021	80,258	48,755	32,926	17,699	9,685	4,210	19,223	39,809
Above Normal (15%)	7,880	10,987	18,932	46,478	63,980	53,325	24,924	19,568	10,596	9,080	4,029	12,044	23,485
Below Normal (17%)	7,930	8,220	12,981	21,585	34,018	20,592	18,142	14,077	8,888	6,786	3,936	3,589	13,395
Dry (22%)	7,340	8,089	9,062	14,974	19,007	16,686	12,248	10,029	7,449	5,297	3,766	3,000	9,746
Critical (15%)	6,712	5,854	5,382	11,847	12,497	11,538	8,672	6,223	5,351	4,165	4,191	3,000	7,119

Alternative 2D (ELT) minus Existing Condition

	Monthly Outflow Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	3,253	-1,522	-2,708	-310	16,715	-6,078	-7,473	-14,028	-13,003	-853	-1,293	9,720	-253
20%	4,772	7,075	-2,018	5,667	9,885	3,259	-9,528	-11,301	-3,166	322	-686	11,784	920
30%	4,821	7,394	-3,193	-4,152	-3,367	-6,040	-5,969	-5,429	-709	390	-448	14,153	-121
40%	4,071	3,826	1,089	-4,381	-2,983	-1,758	-8,463	-4,164	1,071	0	0	7,553	-909
50%	3,671	3,572	1,246	-631	-3,439	-3,088	-3,745	-2,593	897	0	0	-606	-572
60%	3,470	-283	275	-1,550	-2,918	-4,198	-1,796	-54	550	0	0	-401	108
70%	3,295	0	-699	884	-1,518	-1,749	-1,914	-448	480	0	0	-78	-513
80%	2,784	0	-509	1,812	-773	-1,018	-1,231	293	800	0	-234	0	-30
90%	1,338	-1,000	0	695	-209	-146	-333	16	660	-300	-500	0	267
Long Term													
Full Simulation Period[a]	3,107	1,850	153	121	1,244	-1,053	-3,937	-3,698	-1,666	-621	-582	4,234	-71
Water Year Types[b]													
Wet (32%)	2,776	2,798	-552	2,098	6,186	1,303	-5,639	-8,114	-5,751	-1,755	-1,131	9,654	156
Above Normal (15%)	3,859	1,304	918	-2,969	1,658	-846	-7,051	-4,632	-1,205	-350	29	8,372	-76
Below Normal (17%)	3,453	2,355	1,031	-1,383	-2,749	-3,436	-3,786	-2,222	884	-365	-64	144	-512
Dry (22%)	3,183	1,147	177	238	-1,908	-3,194	-1,893	-458	813	273	-1,063	-350	-253
Critical (15%)	2,554	809	-149	505	-493	-374	-381	224	29	-73	114	0	230

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-46-1-3. Sacramento/San Joaquin River Delta, Monthly Outflow Rate

Existing Condition

	Monthly Outflow Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	6,715	16,643	65,896	106,566	123,159	91,606	68,957	53,731	29,717	11,010	5,650	10,109	44,440
20%	4,603	7,613	35,641	67,111	77,058	62,905	49,306	30,361	14,749	8,727	4,745	7,872	33,383
30%	4,351	6,239	20,351	47,588	62,823	46,968	29,154	21,936	10,328	8,000	4,448	4,079	27,538
40%	4,008	5,799	11,724	31,660	51,243	33,850	26,561	19,505	7,942	8,000	4,000	3,853	21,405
50%	4,000	5,100	8,176	23,462	36,121	26,533	19,193	16,166	7,270	8,000	4,000	3,606	14,765
60%	4,000	4,783	6,464	17,526	23,293	21,654	15,823	12,445	7,100	6,500	4,000	3,401	12,401
70%	4,000	4,500	5,283	12,909	17,199	16,769	12,969	10,254	6,716	5,000	4,000	3,078	10,505
80%	4,000	4,500	5,014	9,907	13,613	12,799	11,160	8,720	6,300	5,000	4,000	3,000	8,963
90%	3,817	4,500	4,500	8,652	9,542	9,714	9,643	7,100	5,187	4,300	4,000	3,000	7,328
Long Term													
Full Simulation Period[a]	4,931	9,193	22,714	43,289	52,594	43,172	30,099	22,517	12,765	7,951	4,618	5,334	21,598
Water Year Types[b]													
Wet (32%)	6,487	14,232	48,185	85,900	96,835	78,956	54,394	41,040	23,451	11,441	5,341	9,569	39,652
Above Normal (15%)	4,021	9,683	18,014	49,448	62,321	54,171	31,975	24,200	11,801	9,430	4,000	3,672	23,561
Below Normal (17%)	4,477	5,864	11,950	22,968	36,766	24,029	21,928	16,299	8,004	7,151	4,000	3,445	13,907
Dry (22%)	4,157	6,943	8,884	14,736	20,915	19,880	14,142	10,487	6,636	5,024	4,829	3,350	9,999
Critical (15%)	4,158	5,045	5,531	11,343	12,991	11,911	9,053	6,000	5,322	4,238	4,077	3,000	6,889

Alternative 4A (ELT)

	Monthly Outflow Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	10,000	15,000	67,217	101,734	134,916	86,483	68,886	48,404	19,105	8,869	4,017	20,000	46,044
20%	9,375	14,625	33,493	73,292	85,364	67,425	45,783	28,801	11,403	8,096	4,000	19,656	34,869
30%	9,172	13,633	17,750	44,711	63,934	43,404	28,736	20,018	9,102	8,000	4,000	18,424	28,520
40%	8,079	9,688	13,231	28,504	49,363	32,073	25,242	16,783	8,339	8,000	4,000	11,563	22,616
50%	7,684	8,750	9,871	22,975	32,209	23,949	18,706	14,391	7,598	6,529	4,000	3,031	14,366
60%	7,478	4,500	6,511	17,487	21,046	18,623	16,011	12,042	7,282	6,500	4,000	3,000	12,449
70%	7,258	4,500	4,516	14,131	15,849	15,670	11,888	10,088	7,056	5,000	3,991	3,000	10,231
80%	6,767	4,500	4,501	12,104	12,808	11,825	10,340	8,596	6,689	5,000	3,500	3,000	9,001
90%	5,099	3,500	4,500	9,393	8,973	9,565	9,587	7,255	5,732	4,000	3,500	3,000	7,635
Long Term													
Full Simulation Period[a]	8,122	11,170	23,124	44,319	54,245	42,836	29,883	21,166	10,952	6,887	3,922	9,629	22,188
Water Year Types[b]													
Wet (32%)	9,483	17,222	48,435	89,577	104,288	81,446	54,818	38,029	17,599	9,134	4,170	19,308	41,126
Above Normal (15%)	7,839	11,451	18,720	46,551	63,186	54,692	31,370	23,227	10,604	8,294	4,000	12,227	24,347
Below Normal (17%)	8,010	8,229	13,188	22,395	34,094	21,333	21,450	14,697	8,487	6,187	3,857	3,623	13,796
Dry (22%)	7,333	8,055	9,091	15,882	19,553	16,706	13,406	10,310	7,235	5,117	3,573	3,003	9,939
Critical (15%)	6,772	5,880	5,326	12,259	12,422	11,605	8,922	6,400	5,351	4,086	3,905	3,009	7,162

Alternative 4A (ELT) minus Existing Condition

	Monthly Outflow Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	3,285	-1,643	1,321	-4,832	11,757	-5,123	-70	-5,327	-10,612	-2,140	-1,633	9,891	1,604
20%	4,772	7,012	-2,149	6,181	8,306	4,520	-3,523	-1,560	-3,346	-630	-745	11,784	1,486
30%	4,821	7,394	-2,601	-2,876	1,112	-3,564	-418	-1,918	-1,226	0	-448	14,345	982
40%	4,070	3,889	1,507	-3,156	-1,880	-1,776	-1,319	-2,722	397	0	0	7,709	1,211
50%	3,684	3,650	1,695	-487	-3,912	-2,584	-487	-1,774	328	-1,471	0	-575	-399
60%	3,478	-283	47	-38	-2,247	-3,031	188	-402	182	0	0	-401	48
70%	3,258	0	-767	1,222	-1,351	-1,099	-1,081	-167	340	0	-9	-78	-275
80%	2,767	0	-513	2,197	-805	-975	-821	-123	389	0	-500	0	38
90%	1,282	-1,000	0	741	-570	-149	-56	155	545	-300	-500	0	307
Long Term													
Full Simulation Period[a]	3,192	1,977	409	1,030	1,651	-336	-216	-1,351	-1,812	-1,064	-697	4,295	590
Water Year Types[b]													
Wet (32%)	2,996	2,990	250	3,677	7,453	2,490	424	-3,010	-5,852	-2,306	-1,171	9,739	1,473
Above Normal (15%)	3,817	1,768	706	-2,897	864	521	-605	-973	-1,197	-1,137	0	8,555	785
Below Normal (17%)	3,534	2,365	1,238	-573	-2,672	-2,695	-478	-1,602	483	-964	-143	178	-111
Dry (22%)	3,176	1,112	207	1,146	-1,363	-3,174	-735	-177	600	93	-1,256	-347	-60
Critical (15%)	2,614	835	-205	916	-569	-306	-132	400	29	-151	-172	9	273

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-46-1-4. Sacramento/San Joaquin River Delta, Monthly Outflow Rate

Existing Condition

	Monthly Outflow Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	6,715	16,643	65,896	106,566	123,159	91,606	68,957	53,731	29,717	11,010	5,650	10,109	44,440
20%	4,603	7,613	35,641	67,111	77,058	62,905	49,306	30,361	14,749	8,727	4,745	7,872	33,383
30%	4,351	6,239	20,351	47,588	62,823	46,968	29,154	21,936	10,328	8,000	4,448	4,079	27,538
40%	4,008	5,799	11,724	31,660	51,243	33,850	26,561	19,505	7,942	8,000	4,000	3,853	21,405
50%	4,000	5,100	8,176	23,462	36,121	26,533	19,193	16,166	7,270	8,000	4,000	3,606	14,765
60%	4,000	4,783	6,464	17,526	23,293	21,654	15,823	12,445	7,100	6,500	4,000	3,401	12,401
70%	4,000	4,500	5,283	12,909	17,199	16,769	12,969	10,254	6,716	5,000	4,000	3,078	10,505
80%	4,000	4,500	5,014	9,907	13,613	12,799	11,160	8,720	6,300	5,000	4,000	3,000	8,963
90%	3,817	4,500	4,500	8,652	9,542	9,714	9,643	7,100	5,187	4,300	4,000	3,000	7,328
Long Term													
Full Simulation Period[a]	4,931	9,193	22,714	43,289	52,594	43,172	30,099	22,517	12,765	7,951	4,618	5,334	21,598
Water Year Types[b]													
Wet (32%)	6,487	14,232	48,185	85,900	96,835	78,956	54,394	41,040	23,451	11,441	5,341	9,569	39,652
Above Normal (15%)	4,021	9,683	18,014	49,448	62,321	54,171	31,975	24,200	11,801	9,430	4,000	3,672	23,561
Below Normal (17%)	4,477	5,864	11,950	22,968	36,766	24,029	21,928	16,299	8,004	7,151	4,000	3,445	13,907
Dry (22%)	4,157	6,943	8,884	14,736	20,915	19,880	14,142	10,487	6,636	5,024	4,829	3,350	9,999
Critical (15%)	4,158	5,045	5,531	11,343	12,991	11,911	9,053	6,000	5,322	4,238	4,077	3,000	6,889

Alternative 5A (ELT)

	Monthly Outflow Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	10,000	15,000	70,106	106,748	137,964	85,350	65,893	45,242	17,684	11,069	4,513	19,688	45,005
20%	9,500	14,675	30,945	72,762	87,386	64,836	42,791	25,490	9,945	10,752	4,119	19,375	34,188
30%	9,219	13,676	17,666	47,988	59,267	44,360	26,252	17,986	8,572	8,779	4,000	18,496	27,844
40%	6,906	10,156	11,259	26,505	52,580	32,575	22,268	15,219	7,681	8,092	4,000	11,250	22,170
50%	5,147	9,844	8,476	20,697	34,048	23,581	16,701	13,027	7,550	8,000	4,000	3,000	14,020
60%	4,000	5,160	5,635	17,670	20,750	19,192	14,012	11,509	7,244	6,618	4,000	3,000	12,596
70%	4,000	4,500	4,999	13,117	16,017	15,279	11,457	9,696	7,101	5,000	4,000	3,000	9,749
80%	4,000	4,500	4,501	9,891	12,576	11,796	9,984	8,839	6,700	5,000	3,924	3,000	8,764
90%	3,534	3,955	4,500	8,646	8,628	9,176	9,387	7,128	5,774	4,000	3,679	3,000	7,502
Long Term													
Full Simulation Period[a]	6,557	11,307	23,011	43,803	54,510	42,775	28,141	20,045	10,611	7,719	4,111	9,536	21,844
Water Year Types[b]													
Wet (32%)	7,992	17,128	48,696	89,561	103,679	80,548	52,244	36,109	16,894	10,195	4,223	19,158	40,536
Above Normal (15%)	6,282	12,009	18,509	47,124	64,145	54,831	28,552	21,307	9,954	9,865	4,042	11,940	24,047
Below Normal (17%)	6,486	8,366	13,005	21,755	35,749	20,860	19,577	13,888	8,320	7,181	3,993	3,600	13,565
Dry (22%)	5,923	8,280	8,257	14,265	19,827	17,963	12,585	9,982	7,262	5,414	4,148	3,009	9,743
Critical (15%)	4,757	5,962	5,668	11,368	12,255	11,661	8,833	6,253	5,352	4,297	4,022	3,000	6,952

Alternative 5A (ELT) minus Existing Condition

	Monthly Outflow Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	3,285	-1,643	4,210	182	14,805	-6,256	-3,064	-8,489	-12,033	59	-1,136	9,579	565
20%	4,897	7,062	-4,696	5,651	10,328	1,931	-6,515	-4,871	-4,803	2,026	-626	11,503	806
30%	4,868	7,437	-2,686	400	-3,556	-2,608	-2,902	-3,950	-1,756	779	-448	14,417	306
40%	2,898	4,358	-466	-5,155	1,337	-1,275	-4,293	-4,286	-261	92	0	7,397	766
50%	1,147	4,744	299	-2,765	-2,073	-2,952	-2,492	-3,138	280	0	0	-606	-745
60%	0	377	-829	144	-2,543	-2,462	-1,810	-936	144	118	0	-401	195
70%	0	0	-284	209	-1,182	-1,490	-1,511	-558	384	0	0	-78	-756
80%	0	0	-513	-16	-1,037	-1,003	-1,176	120	400	0	-76	0	-199
90%	-283	-545	0	-6	-914	-538	-256	28	587	-300	-321	0	174
Long Term													
Full Simulation Period[a]	1,626	2,114	297	514	1,917	-397	-1,958	-2,472	-2,153	-232	-507	4,202	246
Water Year Types[b]													
Wet (32%)	1,505	2,896	511	3,661	6,844	1,592	-2,150	-4,930	-6,557	-1,246	-1,118	9,589	883
Above Normal (15%)	2,261	2,326	495	-2,324	1,823	660	-3,423	-2,892	-1,847	434	42	8,268	485
Below Normal (17%)	2,009	2,502	1,055	-1,214	-1,017	-3,169	-2,351	-2,411	317	30	-7	155	-342
Dry (22%)	1,766	1,338	-628	-471	-1,088	-1,917	-1,557	-506	627	390	-681	-342	-256
Critical (15%)	598	917	137	26	-735	-250	-221	253	30	59	-55	0	63

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-46-1-5. Sacramento/San Joaquin River Delta, Monthly Outflow Rate

No Action Alternative (ELT)

	Monthly Outflow Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	10,148	15,000	72,634	111,129	134,922	87,666	68,863	48,230	20,581	12,615	4,990	19,375	46,274
20%	9,688	14,585	34,818	73,005	88,376	67,761	45,685	28,486	10,494	11,036	4,467	19,063	35,197
30%	9,375	13,662	18,281	50,812	63,850	45,800	28,825	19,921	8,524	9,350	4,243	17,629	28,782
40%	6,813	10,156	11,835	28,558	51,728	33,345	25,325	16,689	7,780	8,024	4,039	11,094	23,341
50%	5,380	9,844	8,912	21,394	35,397	25,486	18,934	14,068	7,243	8,000	4,000	3,651	14,811
60%	4,000	6,113	5,862	17,225	22,640	20,607	15,328	12,042	7,100	7,210	4,000	3,050	12,678
70%	4,000	4,506	4,745	12,881	16,005	17,543	12,028	9,709	6,811	5,549	4,000	3,000	10,184
80%	4,000	4,500	4,500	10,209	13,057	12,149	10,194	8,409	6,443	5,000	4,000	3,000	9,078
90%	3,596	3,604	4,500	9,047	8,971	9,325	9,673	7,269	5,393	4,940	3,943	3,000	7,657
Long Term													
Full Simulation Period[a]	6,664	11,525	23,571	44,851	55,230	43,918	29,844	21,147	10,929	8,236	4,297	9,475	22,474
Water Year Types[b]													
Wet (32%)	8,166	17,373	49,798	91,148	104,394	81,757	54,879	38,281	18,082	10,811	4,415	18,873	41,498
Above Normal (15%)	6,529	12,428	19,364	48,940	64,086	55,697	31,177	23,075	10,222	10,642	4,010	11,836	24,834
Below Normal (17%)	6,237	8,681	13,395	22,093	37,032	22,482	21,211	14,721	8,059	7,612	4,116	3,774	14,118
Dry (22%)	6,028	8,385	8,482	14,781	20,910	19,393	13,480	9,997	7,023	5,573	4,633	3,077	10,147
Critical (15%)	4,997	5,981	5,457	12,104	12,563	11,949	8,890	6,322	5,346	4,976	4,037	3,000	7,135

Alternative 2D (ELT)

	Monthly Outflow Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	9,969	15,121	63,188	106,256	139,874	85,528	61,484	39,703	16,714	10,157	4,357	19,828	44,188
20%	9,375	14,688	33,624	72,778	86,943	66,164	39,778	19,060	11,583	9,048	4,059	19,656	34,303
30%	9,172	13,633	17,158	43,436	59,455	40,928	23,185	16,507	9,619	8,390	4,000	18,232	27,418
40%	8,079	9,625	12,813	27,279	48,260	32,092	18,098	15,341	9,013	8,000	4,000	11,406	20,496
50%	7,671	8,672	9,422	22,831	32,682	23,445	15,447	13,573	8,167	8,000	4,000	3,000	14,194
60%	7,470	4,500	6,738	15,976	20,376	17,456	14,027	12,391	7,650	6,500	4,000	3,000	12,509
70%	7,295	4,500	4,584	13,793	15,681	15,019	11,055	9,806	7,197	5,000	4,000	3,000	9,992
80%	6,784	4,500	4,505	11,719	12,840	11,781	9,929	9,013	7,100	5,000	3,766	3,000	8,933
90%	5,155	3,500	4,500	9,347	9,333	9,568	9,310	7,116	5,848	4,000	3,500	3,000	7,596
Long Term													
Full Simulation Period[a]	8,038	11,043	22,867	43,409	53,837	42,118	26,162	18,819	11,098	7,330	4,036	9,568	21,527
Water Year Types[b]													
Wet (32%)	9,263	17,030	47,633	87,998	103,021	80,258	48,755	32,926	17,699	9,685	4,210	19,223	39,809
Above Normal (15%)	7,880	10,987	18,932	46,478	63,980	53,325	24,924	19,568	10,596	9,080	4,029	12,044	23,485
Below Normal (17%)	7,930	8,220	12,981	21,585	34,018	20,592	18,142	14,077	8,888	6,786	3,936	3,589	13,395
Dry (22%)	7,340	8,089	9,062	14,974	19,007	16,686	12,248	10,029	7,449	5,297	3,766	3,000	9,746
Critical (15%)	6,712	5,854	5,382	11,847	12,497	11,538	8,672	6,223	5,351	4,165	4,191	3,000	7,119

Alternative 2D (ELT) minus No Action Alternative (ELT)

	Monthly Outflow Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	-180	121	-9,447	-4,873	4,952	-2,138	-7,379	-8,527	-3,868	-2,458	-633	453	-2,087
20%	-313	102	-1,194	-227	-1,434	-1,597	-5,907	-9,427	1,089	-1,987	-408	594	-894
30%	-203	-30	-1,123	-7,376	-4,394	-4,872	-5,641	-3,414	1,095	-960	-243	603	-1,365
40%	1,267	-531	977	-1,279	-3,468	-1,254	-7,227	-1,348	1,233	-24	-39	313	-2,846
50%	2,291	-1,172	511	1,437	-2,714	-2,041	-3,486	-496	924	0	0	-651	-617
60%	3,470	-1,613	877	-1,249	-2,265	-3,151	-1,301	348	550	-710	0	-50	-168
70%	3,295	-6	-160	911	-324	-2,524	-973	97	386	-549	0	0	-192
80%	2,784	0	5	1,510	-218	-368	-265	604	657	0	-234	0	-144
90%	1,558	-104	0	299	362	243	-363	-153	454	-940	-443	0	-62
Long Term													
Full Simulation Period[a]	1,374	-482	-704	-1,441	-1,393	-1,799	-3,683	-2,328	169	-906	-261	93	-947
Water Year Types[b]													
Wet (32%)	1,097	-343	-2,165	-3,151	-1,373	-1,499	-6,124	-5,355	-383	-1,126	-205	350	-1,690
Above Normal (15%)	1,351	-1,441	-433	-2,462	-106	-2,372	-6,253	-3,507	374	-1,562	20	208	-1,349
Below Normal (17%)	1,693	-462	-414	-508	-3,014	-1,890	-3,068	-645	829	-826	-180	-185	-723
Dry (22%)	1,312	-295	579	192	-1,903	-2,707	-1,232	33	425	-276	-868	-77	-401
Critical (15%)	1,715	-127	-75	-257	-65	-412	-217	-98	5	-811	154	0	-16

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-46-1-6. Sacramento/San Joaquin River Delta, Monthly Outflow Rate

No Action Alternative (ELT)

	Monthly Outflow Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	10,148	15,000	72,634	111,129	134,922	87,666	68,863	48,230	20,581	12,615	4,990	19,375	46,274
20%	9,688	14,585	34,818	73,005	88,376	67,761	45,685	28,486	10,494	11,036	4,467	19,063	35,197
30%	9,375	13,662	18,281	50,812	63,850	45,800	28,825	19,921	8,524	9,350	4,243	17,629	28,782
40%	6,813	10,156	11,835	28,558	51,728	33,345	25,325	16,689	7,780	8,024	4,039	11,094	23,341
50%	5,380	9,844	8,912	21,394	35,397	25,486	18,934	14,068	7,243	8,000	4,000	3,651	14,811
60%	4,000	6,113	5,862	17,225	22,640	20,607	15,328	12,042	7,100	7,210	4,000	3,050	12,678
70%	4,000	4,506	4,745	12,881	16,005	17,543	12,028	9,709	6,811	5,549	4,000	3,000	10,184
80%	4,000	4,500	4,500	10,209	13,057	12,149	10,194	8,409	6,443	5,000	4,000	3,000	9,078
90%	3,596	3,604	4,500	9,047	8,971	9,325	9,673	7,269	5,393	4,940	3,943	3,000	7,657
Long Term													
Full Simulation Period[a]	6,664	11,525	23,571	44,851	55,230	43,918	29,844	21,147	10,929	8,236	4,297	9,475	22,474
Water Year Types[b]													
Wet (32%)	8,166	17,373	49,798	91,148	104,394	81,757	54,879	38,281	18,082	10,811	4,415	18,873	41,498
Above Normal (15%)	6,529	12,428	19,364	48,940	64,086	55,697	31,177	23,075	10,222	10,642	4,010	11,836	24,834
Below Normal (17%)	6,237	8,681	13,395	22,093	37,032	22,482	21,211	14,721	8,059	7,612	4,116	3,774	14,118
Dry (22%)	6,028	8,385	8,482	14,781	20,910	19,393	13,480	9,997	7,023	5,573	4,633	3,077	10,147
Critical (15%)	4,997	5,981	5,457	12,104	12,563	11,949	8,890	6,322	5,346	4,976	4,037	3,000	7,135

Alternative 4A (ELT)

	Monthly Outflow Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	10,000	15,000	67,217	101,734	134,916	86,483	68,886	48,404	19,105	8,869	4,017	20,000	46,044
20%	9,375	14,625	33,493	73,292	85,364	67,425	45,783	28,801	11,403	8,096	4,000	19,656	34,869
30%	9,172	13,633	17,750	44,711	63,934	43,404	28,736	20,018	9,102	8,000	4,000	18,424	28,520
40%	8,079	9,688	13,231	28,504	49,363	32,073	25,242	16,783	8,339	8,000	4,000	11,563	22,616
50%	7,684	8,750	9,871	22,975	32,209	23,949	18,706	14,391	7,598	6,529	4,000	3,031	14,366
60%	7,478	4,500	6,511	17,487	21,046	18,623	16,011	12,042	7,282	6,500	4,000	3,000	12,449
70%	7,258	4,500	4,516	14,131	15,849	15,670	11,888	10,088	7,056	5,000	3,991	3,000	10,231
80%	6,767	4,500	4,501	12,104	12,808	11,825	10,340	8,596	6,689	5,000	3,500	3,000	9,001
90%	5,099	3,500	4,500	9,393	8,973	9,565	9,587	7,255	5,732	4,000	3,500	3,000	7,635
Long Term													
Full Simulation Period[a]	8,122	11,170	23,124	44,319	54,245	42,836	29,883	21,166	10,952	6,887	3,922	9,629	22,188
Water Year Types[b]													
Wet (32%)	9,483	17,222	48,435	89,577	104,288	81,446	54,818	38,029	17,599	9,134	4,170	19,308	41,126
Above Normal (15%)	7,839	11,451	18,720	46,551	63,186	54,692	31,370	23,227	10,604	8,294	4,000	12,227	24,347
Below Normal (17%)	8,010	8,229	13,188	22,395	34,094	21,333	21,450	14,697	8,487	6,187	3,857	3,623	13,796
Dry (22%)	7,333	8,055	9,091	15,882	19,553	16,706	13,406	10,310	7,235	5,117	3,573	3,003	9,939
Critical (15%)	6,772	5,880	5,326	12,259	12,422	11,605	8,922	6,400	5,351	4,086	3,905	3,009	7,162

Alternative 4A (ELT) minus No Action Alternative (ELT)

	Monthly Outflow Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	-148	0	-5,417	-9,394	-6	-1,182	23	174	-1,477	-3,746	-973	625	-230
20%	-313	40	-1,325	287	-3,012	-336	99	315	909	-2,939	-467	594	-329
30%	-203	-30	-531	-6,101	85	-2,396	-90	97	578	-1,350	-243	795	-262
40%	1,266	-469	1,396	-54	-2,365	-1,272	-83	94	559	-24	-39	469	-725
50%	2,304	-1,094	960	1,581	-3,187	-1,538	-228	323	355	-1,471	0	-620	-445
60%	3,478	-1,613	649	263	-1,594	-1,984	682	0	182	-710	0	-50	-229
70%	3,258	-6	-228	1,249	-157	-1,874	-140	379	245	-549	-9	0	47
80%	2,767	0	1	1,895	-250	-325	146	187	246	0	-500	0	-77
90%	1,503	-104	0	346	2	240	-86	-14	339	-940	-443	0	-22
Long Term													
Full Simulation Period[a]	1,458	-355	-447	-532	-985	-1,082	38	19	23	-1,349	-376	154	-286
Water Year Types[b]													
Wet (32%)	1,316	-151	-1,363	-1,571	-106	-312	-61	-251	-483	-1,677	-245	435	-372
Above Normal (15%)	1,309	-977	-644	-2,389	-900	-1,005	194	152	383	-2,349	-10	391	-487
Below Normal (17%)	1,773	-452	-207	302	-2,938	-1,148	240	-25	428	-1,425	-259	-152	-322
Dry (22%)	1,305	-330	609	1,101	-1,358	-2,687	-74	314	212	-455	-1,061	-74	-208
Critical (15%)	1,775	-101	-131	155	-140	-344	32	79	5	-889	-132	9	26

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-46-1-7. Sacramento/San Joaquin River Delta, Monthly Outflow Rate

No Action Alternative (ELT)

	Monthly Outflow Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	10,148	15,000	72,634	111,129	134,922	87,666	68,863	48,230	20,581	12,615	4,990	19,375	46,274
20%	9,688	14,585	34,818	73,005	88,376	67,761	45,685	28,486	10,494	11,036	4,467	19,063	35,197
30%	9,375	13,662	18,281	50,812	63,850	45,800	28,825	19,921	8,524	9,350	4,243	17,629	28,782
40%	6,813	10,156	11,835	28,558	51,728	33,345	25,325	16,689	7,780	8,024	4,039	11,094	23,341
50%	5,380	9,844	8,912	21,394	35,397	25,486	18,934	14,068	7,243	8,000	4,000	3,651	14,811
60%	4,000	6,113	5,862	17,225	22,640	20,607	15,328	12,042	7,100	7,210	4,000	3,050	12,678
70%	4,000	4,506	4,745	12,881	16,005	17,543	12,028	9,709	6,811	5,549	4,000	3,000	10,184
80%	4,000	4,500	4,500	10,209	13,057	12,149	10,194	8,409	6,443	5,000	4,000	3,000	9,078
90%	3,596	3,604	4,500	9,047	8,971	9,325	9,673	7,269	5,393	4,940	3,943	3,000	7,657
Long Term													
Full Simulation Period[a]	6,664	11,525	23,571	44,851	55,230	43,918	29,844	21,147	10,929	8,236	4,297	9,475	22,474
Water Year Types[b]													
Wet (32%)	8,166	17,373	49,798	91,148	104,394	81,757	54,879	38,281	18,082	10,811	4,415	18,873	41,498
Above Normal (15%)	6,529	12,428	19,364	48,940	64,086	55,697	31,177	23,075	10,222	10,642	4,010	11,836	24,834
Below Normal (17%)	6,237	8,681	13,395	22,093	37,032	22,482	21,211	14,721	8,059	7,612	4,116	3,774	14,118
Dry (22%)	6,028	8,385	8,482	14,781	20,910	19,393	13,480	9,997	7,023	5,573	4,633	3,077	10,147
Critical (15%)	4,997	5,981	5,457	12,104	12,563	11,949	8,890	6,322	5,346	4,976	4,037	3,000	7,135

Alternative 5A (ELT)

	Monthly Outflow Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	10,000	15,000	70,106	106,748	137,964	85,350	65,893	45,242	17,684	11,069	4,513	19,688	45,005
20%	9,500	14,675	30,945	72,762	87,386	64,836	42,791	25,490	9,945	10,752	4,119	19,375	34,188
30%	9,219	13,676	17,666	47,988	59,267	44,360	26,252	17,986	8,572	8,779	4,000	18,496	27,844
40%	6,906	10,156	11,259	26,505	52,580	32,575	22,268	15,219	7,681	8,092	4,000	11,250	22,170
50%	5,147	9,844	8,476	20,697	34,048	23,581	16,701	13,027	7,550	8,000	4,000	3,000	14,020
60%	4,000	5,160	5,635	17,670	20,750	19,192	14,012	11,509	7,244	6,618	4,000	3,000	12,596
70%	4,000	4,500	4,999	13,117	16,017	15,279	11,457	9,696	7,101	5,000	4,000	3,000	9,749
80%	4,000	4,500	4,501	9,891	12,576	11,796	9,984	8,839	6,700	5,000	3,924	3,000	8,764
90%	3,534	3,955	4,500	8,646	8,628	9,176	9,387	7,128	5,774	4,000	3,679	3,000	7,502
Long Term													
Full Simulation Period[a]	6,557	11,307	23,011	43,803	54,510	42,775	28,141	20,045	10,611	7,719	4,111	9,536	21,844
Water Year Types[b]													
Wet (32%)	7,992	17,128	48,696	89,561	103,679	80,548	52,244	36,109	16,894	10,195	4,223	19,158	40,536
Above Normal (15%)	6,282	12,009	18,509	47,124	64,145	54,831	28,552	21,307	9,954	9,865	4,042	11,940	24,047
Below Normal (17%)	6,486	8,366	13,005	21,755	35,749	20,860	19,577	13,888	8,320	7,181	3,993	3,600	13,565
Dry (22%)	5,923	8,280	8,257	14,265	19,827	17,963	12,585	9,982	7,262	5,414	4,148	3,009	9,743
Critical (15%)	4,757	5,962	5,668	11,368	12,255	11,661	8,833	6,253	5,352	4,297	4,022	3,000	6,952

Alternative 5A (ELT) minus No Action Alternative (ELT)

	Monthly Outflow Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	-148	0	-2,528	-4,380	3,041	-2,315	-2,970	-2,988	-2,897	-1,546	-476	313	-1,269
20%	-188	90	-3,872	-243	-991	-2,925	-2,893	-2,996	-548	-284	-348	313	-1,009
30%	-156	13	-615	-2,824	-4,583	-1,440	-2,573	-1,935	48	-571	-243	867	-938
40%	94	0	-577	-2,053	852	-770	-3,057	-1,470	-99	68	-39	156	-1,171
50%	-233	0	-436	-698	-1,349	-1,906	-2,233	-1,041	307	0	0	-651	-791
60%	0	-953	-226	445	-1,890	-1,416	-1,316	-533	144	-592	0	-50	-82
70%	0	-6	254	236	12	-2,264	-571	-13	290	-549	0	0	-435
80%	0	0	1	-318	-482	-353	-210	430	257	0	-76	0	-313
90%	-62	351	0	-401	-342	-149	-286	-141	381	-940	-264	0	-155
Long Term													
Full Simulation Period[a]	-107	-219	-560	-1,048	-720	-1,143	-1,703	-1,103	-318	-517	-186	61	-630
Water Year Types[b]													
Wet (32%)	-174	-245	-1,102	-1,588	-715	-1,210	-2,635	-2,171	-1,188	-616	-192	285	-963
Above Normal (15%)	-247	-419	-855	-1,816	59	-867	-2,625	-1,768	-268	-778	33	104	-787
Below Normal (17%)	249	-315	-390	-339	-1,283	-1,622	-1,634	-833	262	-431	-123	-174	-553
Dry (22%)	-105	-104	-226	-516	-1,083	-1,430	-895	-15	239	-159	-485	-68	-404
Critical (15%)	-240	-20	212	-736	-307	-288	-57	-69	6	-679	-15	0	-183

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-46-2-1. Sacramento/San Joaquin River Delta, Monthly Outflow Volume

Existing Condition

	Monthly Outflow Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	413	990	4,052	6,552	7,060	5,633	4,103	3,304	1,768	677	347	602	31,756
20%	283	453	2,192	4,127	4,418	3,868	2,934	1,867	878	537	292	468	24,054
30%	268	371	1,251	2,926	3,614	2,888	1,735	1,349	615	492	273	243	19,623
40%	246	345	721	1,947	2,846	2,081	1,580	1,199	473	492	246	229	15,491
50%	246	303	503	1,443	2,042	1,631	1,142	994	433	492	246	215	10,646
60%	246	285	397	1,078	1,317	1,331	942	765	422	400	246	202	8,880
70%	246	268	325	794	955	1,031	772	631	400	307	246	183	7,637
80%	246	268	308	609	776	787	664	536	375	307	246	179	6,490
90%	235	268	277	532	537	597	574	437	309	264	246	179	5,269
Long Term													
Full Simulation Period[a]	303	547	1,397	2,662	2,944	2,655	1,791	1,385	760	489	284	317	15,533
Water Year Types[b]													
Wet (32%)	399	847	2,963	5,282	5,402	4,855	3,237	2,523	1,395	703	328	569	28,504
Above Normal (15%)	247	576	1,108	3,040	3,517	3,331	1,903	1,488	702	580	246	218	16,956
Below Normal (17%)	275	349	735	1,412	2,066	1,477	1,305	1,002	476	440	246	205	9,989
Dry (22%)	256	413	546	906	1,170	1,222	841	645	395	309	297	199	7,200
Critical (15%)	256	300	340	697	733	732	539	369	317	261	251	179	4,973

No Action Alternative (ELT)

	Monthly Outflow Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	624	893	4,466	6,833	7,713	5,390	4,098	2,966	1,225	776	307	1,153	33,408
20%	596	868	2,141	4,489	5,083	4,166	2,718	1,752	624	679	275	1,134	25,278
30%	576	813	1,124	3,124	3,546	2,816	1,715	1,225	507	575	261	1,049	20,631
40%	419	604	728	1,756	2,873	2,050	1,507	1,026	463	493	248	660	16,751
50%	331	586	548	1,315	1,966	1,567	1,127	865	431	492	246	217	10,686
60%	246	364	360	1,059	1,275	1,267	912	740	422	443	246	181	9,049
70%	246	268	292	792	898	1,079	716	597	405	341	246	179	7,380
80%	246	268	277	628	746	747	607	517	383	307	246	179	6,562
90%	221	214	277	556	500	573	576	447	321	304	242	179	5,526
Long Term													
Full Simulation Period[a]	410	686	1,449	2,758	3,092	2,700	1,776	1,300	650	506	264	564	16,156
Water Year Types[b]													
Wet (32%)	502	1,034	3,062	5,604	5,824	5,027	3,266	2,354	1,076	665	271	1,123	29,808
Above Normal (15%)	401	740	1,191	3,009	3,617	3,425	1,855	1,419	608	654	247	704	17,870
Below Normal (17%)	384	517	824	1,358	2,081	1,382	1,262	905	480	468	253	225	10,138
Dry (22%)	371	499	522	909	1,170	1,192	802	615	418	343	285	183	7,308
Critical (15%)	307	356	336	744	708	735	529	389	318	306	248	179	5,154

No Action Alternative (ELT) minus Existing Condition

	Monthly Outflow Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	211	-98	414	281	653	-242	-6	-338	-544	99	-41	551	1,652
20%	313	415	-51	362	665	299	-216	-115	-253	142	-17	666	1,224
30%	309	442	-127	198	-68	-72	-20	-124	-107	83	-13	806	1,009
40%	172	259	7	-191	27	-31	-74	-173	-10	1	2	431	1,260
50%	85	282	45	-127	-76	-64	-15	-129	-2	0	0	3	40
60%	0	79	-37	-18	-41	-64	-29	-25	0	44	0	-21	169
70%	0	0	-33	-2	-58	48	-56	-34	6	34	0	-5	-257
80%	0	0	-32	19	-30	-40	-57	-19	9	0	0	0	72
90%	-14	-53	0	24	-37	-24	2	10	12	39	-4	0	257
Long Term													
Full Simulation Period[a]	107	139	53	96	147	46	-15	-84	-109	18	-20	246	623
Water Year Types[b]													
Wet (32%)	103	187	99	323	422	172	29	-170	-319	-39	-57	554	1,304
Above Normal (15%)	154	163	83	-31	100	94	-48	-69	-94	75	1	486	914
Below Normal (17%)	108	168	89	-54	15	-95	-43	-97	3	28	7	20	149
Dry (22%)	115	86	-25	3	0	-30	-39	-30	23	34	-12	-16	108
Critical (15%)	52	56	-5	47	-25	2	-10	20	1	45	-2	0	182

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-46-2-2. Sacramento/San Joaquin River Delta, Monthly Outflow Volume

Existing Condition

	Monthly Outflow Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	413	990	4,052	6,552	7,060	5,633	4,103	3,304	1,768	677	347	602	31,756
20%	283	453	2,192	4,127	4,418	3,868	2,934	1,867	878	537	292	468	24,054
30%	268	371	1,251	2,926	3,614	2,888	1,735	1,349	615	492	273	243	19,623
40%	246	345	721	1,947	2,846	2,081	1,580	1,199	473	492	246	229	15,491
50%	246	303	503	1,443	2,042	1,631	1,142	994	433	492	246	215	10,646
60%	246	285	397	1,078	1,317	1,331	942	765	422	400	246	202	8,880
70%	246	268	325	794	955	1,031	772	631	400	307	246	183	7,637
80%	246	268	308	609	776	787	664	536	375	307	246	179	6,490
90%	235	268	277	532	537	597	574	437	309	264	246	179	5,269
Long Term													
Full Simulation Period[a]	303	547	1,397	2,662	2,944	2,655	1,791	1,385	760	489	284	317	15,533
Water Year Types[b]													
Wet (32%)	399	847	2,963	5,282	5,402	4,855	3,237	2,523	1,395	703	328	569	28,504
Above Normal (15%)	247	576	1,108	3,040	3,517	3,331	1,903	1,488	702	580	246	218	16,956
Below Normal (17%)	275	349	735	1,412	2,066	1,477	1,305	1,002	476	440	246	205	9,989
Dry (22%)	256	413	546	906	1,170	1,222	841	645	395	309	297	199	7,200
Critical (15%)	256	300	340	697	733	732	539	369	317	261	251	179	4,973

Alternative 2D (ELT)

	Monthly Outflow Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	613	900	3,885	6,533	7,795	5,259	3,659	2,441	995	625	268	1,180	31,604
20%	576	874	2,067	4,475	4,973	4,068	2,367	1,172	689	556	250	1,170	24,631
30%	564	811	1,055	2,671	3,302	2,517	1,380	1,015	572	516	246	1,085	19,348
40%	497	573	788	1,677	2,680	1,973	1,077	943	536	492	246	679	14,776
50%	472	516	579	1,404	1,848	1,442	919	835	486	492	246	179	10,252
60%	459	268	414	982	1,132	1,073	835	762	455	400	246	179	8,981
70%	449	268	282	848	871	924	658	603	428	307	246	179	7,244
80%	417	268	277	721	733	724	591	554	422	307	232	179	6,471
90%	317	208	277	575	535	588	554	438	348	246	215	179	5,450
Long Term													
Full Simulation Period[a]	494	657	1,406	2,669	3,014	2,590	1,557	1,157	660	451	248	569	15,473
Water Year Types[b]													
Wet (32%)	570	1,013	2,929	5,411	5,748	4,935	2,901	2,025	1,053	596	259	1,144	28,582
Above Normal (15%)	485	654	1,164	2,858	3,611	3,279	1,483	1,203	631	558	248	717	16,889
Below Normal (17%)	488	489	798	1,327	1,912	1,266	1,080	866	529	417	242	214	9,627
Dry (22%)	451	481	557	921	1,064	1,026	729	617	443	326	232	179	7,025
Critical (15%)	413	348	331	728	704	709	516	383	318	256	258	179	5,143

Alternative 2D (ELT) minus Existing Condition

	Monthly Outflow Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	200	-91	-167	-19	734	-374	-445	-863	-774	-52	-79	578	-152
20%	293	421	-124	348	554	200	-567	-695	-188	20	-42	701	577
30%	296	440	-196	-255	-312	-371	-355	-334	-42	24	-28	842	-275
40%	250	228	67	-269	-166	-108	-504	-256	64	0	0	449	-715
50%	226	213	77	-39	-195	-190	-223	-159	53	0	0	-36	-394
60%	213	-17	17	-95	-185	-258	-107	-3	33	0	0	-24	100
70%	203	0	-43	54	-84	-108	-114	-28	29	0	0	-5	-393
80%	171	0	-31	111	-43	-63	-73	18	48	0	-14	0	-20
90%	82	-60	0	43	-2	-9	-20	1	39	-18	-31	0	181
Long Term													
Full Simulation Period[a]	191	110	9	7	70	-65	-234	-227	-99	-38	-36	252	-60
Water Year Types[b]													
Wet (32%)	171	166	-34	129	345	80	-336	-499	-342	-108	-70	574	78
Above Normal (15%)	237	78	56	-183	94	-52	-420	-285	-72	-22	2	498	-67
Below Normal (17%)	212	140	63	-85	-154	-211	-225	-137	53	-22	-4	9	-362
Dry (22%)	196	68	11	15	-106	-196	-113	-28	48	17	-65	-21	-175
Critical (15%)	157	48	-9	31	-29	-23	-23	14	2	-4	7	0	171

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-46-2-3. Sacramento/San Joaquin River Delta, Monthly Outflow Volume

Existing Condition

	Monthly Outflow Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	413	990	4,052	6,552	7,060	5,633	4,103	3,304	1,768	677	347	602	31,756
20%	283	453	2,192	4,127	4,418	3,868	2,934	1,867	878	537	292	468	24,054
30%	268	371	1,251	2,926	3,614	2,888	1,735	1,349	615	492	273	243	19,623
40%	246	345	721	1,947	2,846	2,081	1,580	1,199	473	492	246	229	15,491
50%	246	303	503	1,443	2,042	1,631	1,142	994	433	492	246	215	10,646
60%	246	285	397	1,078	1,317	1,331	942	765	422	400	246	202	8,880
70%	246	268	325	794	955	1,031	772	631	400	307	246	183	7,637
80%	246	268	308	609	776	787	664	536	375	307	246	179	6,490
90%	235	268	277	532	537	597	574	437	309	264	246	179	5,269
Long Term													
Full Simulation Period[a]	303	547	1,397	2,662	2,944	2,655	1,791	1,385	760	489	284	317	15,533
Water Year Types[b]													
Wet (32%)	399	847	2,963	5,282	5,402	4,855	3,237	2,523	1,395	703	328	569	28,504
Above Normal (15%)	247	576	1,108	3,040	3,517	3,331	1,903	1,488	702	580	246	218	16,956
Below Normal (17%)	275	349	735	1,412	2,066	1,477	1,305	1,002	476	440	246	205	9,989
Dry (22%)	256	413	546	906	1,170	1,222	841	645	395	309	297	199	7,200
Critical (15%)	256	300	340	697	733	732	539	369	317	261	251	179	4,973

Alternative 4A (ELT)

	Monthly Outflow Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	615	893	4,133	6,255	7,631	5,318	4,099	2,976	1,137	545	247	1,190	32,814
20%	576	870	2,059	4,507	4,910	4,146	2,724	1,771	679	498	246	1,170	25,032
30%	564	811	1,091	2,749	3,622	2,669	1,710	1,231	542	492	246	1,096	20,267
40%	497	576	814	1,753	2,741	1,972	1,502	1,032	496	492	246	688	16,331
50%	472	521	607	1,413	1,819	1,473	1,113	885	452	401	246	180	10,341
60%	460	268	400	1,075	1,169	1,145	953	740	433	400	246	179	8,832
70%	446	268	278	869	884	964	707	620	420	307	245	179	7,409
80%	416	268	277	744	731	727	615	529	398	307	215	179	6,522
90%	314	208	277	578	500	588	570	446	341	246	215	179	5,547
Long Term													
Full Simulation Period[a]	499	665	1,422	2,725	3,036	2,634	1,778	1,301	652	423	241	573	15,950
Water Year Types[b]													
Wet (32%)	583	1,025	2,978	5,508	5,818	5,008	3,262	2,338	1,047	562	256	1,149	29,534
Above Normal (15%)	482	681	1,151	2,862	3,567	3,363	1,867	1,428	631	510	246	728	17,516
Below Normal (17%)	493	490	811	1,377	1,916	1,312	1,276	904	505	380	237	216	9,916
Dry (22%)	451	479	559	977	1,094	1,027	798	634	431	315	220	179	7,162
Critical (15%)	416	350	327	754	700	714	531	394	318	251	240	179	5,174

Alternative 4A (ELT) minus Existing Condition

	Monthly Outflow Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	202	-98	81	-297	571	-315	-4	-328	-631	-132	-100	589	1,058
20%	293	417	-132	380	492	278	-210	-96	-199	-39	-46	701	978
30%	296	440	-160	-177	8	-219	-25	-118	-73	0	-28	854	645
40%	250	231	93	-194	-104	-109	-78	-167	24	0	0	459	840
50%	227	217	104	-30	-224	-159	-29	-109	20	-90	0	-34	-305
60%	214	-17	3	-2	-148	-186	11	-25	11	0	0	-24	-48
70%	200	0	-47	75	-71	-68	-64	-10	20	0	-1	-5	-228
80%	170	0	-32	135	-44	-60	-49	-8	23	0	-31	0	31
90%	79	-60	0	46	-37	-9	-3	10	32	-18	-31	0	278
Long Term													
Full Simulation Period[a]	196	118	25	63	92	-21	-13	-83	-108	-65	-43	256	417
Water Year Types[b]													
Wet (32%)	184	178	15	226	416	153	25	-185	-348	-142	-72	579	1,030
Above Normal (15%)	235	105	43	-178	51	32	-36	-60	-71	-70	0	509	560
Below Normal (17%)	217	141	76	-35	-151	-166	-28	-99	29	-59	-9	11	-73
Dry (22%)	195	66	13	70	-76	-195	-44	-11	36	6	-77	-21	-37
Critical (15%)	161	50	-13	56	-33	-19	-8	25	2	-9	-11	1	202

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-46-2-4. Sacramento/San Joaquin River Delta, Monthly Outflow Volume

Existing Condition

	Monthly Outflow Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	413	990	4,052	6,552	7,060	5,633	4,103	3,304	1,768	677	347	602	31,756
20%	283	453	2,192	4,127	4,418	3,868	2,934	1,867	878	537	292	468	24,054
30%	268	371	1,251	2,926	3,614	2,888	1,735	1,349	615	492	273	243	19,623
40%	246	345	721	1,947	2,846	2,081	1,580	1,199	473	492	246	229	15,491
50%	246	303	503	1,443	2,042	1,631	1,142	994	433	492	246	215	10,646
60%	246	285	397	1,078	1,317	1,331	942	765	422	400	246	202	8,880
70%	246	268	325	794	955	1,031	772	631	400	307	246	183	7,637
80%	246	268	308	609	776	787	664	536	375	307	246	179	6,490
90%	235	268	277	532	537	597	574	437	309	264	246	179	5,269
Long Term													
Full Simulation Period[a]	303	547	1,397	2,662	2,944	2,655	1,791	1,385	760	489	284	317	15,533
Water Year Types[b]													
Wet (32%)	399	847	2,963	5,282	5,402	4,855	3,237	2,523	1,395	703	328	569	28,504
Above Normal (15%)	247	576	1,108	3,040	3,517	3,331	1,903	1,488	702	580	246	218	16,956
Below Normal (17%)	275	349	735	1,412	2,066	1,477	1,305	1,002	476	440	246	205	9,989
Dry (22%)	256	413	546	906	1,170	1,222	841	645	395	309	297	199	7,200
Critical (15%)	256	300	340	697	733	732	539	369	317	261	251	179	4,973

Alternative 5A (ELT)

	Monthly Outflow Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	615	893	4,311	6,564	7,688	5,248	3,921	2,782	1,052	681	278	1,171	32,373
20%	584	873	1,903	4,474	5,020	3,987	2,546	1,567	592	661	253	1,153	24,541
30%	567	814	1,086	2,951	3,292	2,728	1,562	1,106	510	540	246	1,101	19,852
40%	425	604	692	1,630	2,960	2,003	1,325	936	457	498	246	669	15,966
50%	316	586	521	1,273	1,912	1,450	994	801	449	492	246	179	10,114
60%	246	307	346	1,086	1,171	1,180	834	708	431	407	246	179	8,927
70%	246	268	307	807	909	939	682	596	423	307	246	179	7,075
80%	246	268	277	608	705	725	594	544	399	307	241	179	6,350
90%	217	235	277	532	481	564	559	438	344	246	226	179	5,430
Long Term													
Full Simulation Period[a]	403	673	1,415	2,693	3,052	2,630	1,675	1,233	631	475	253	567	15,699
Water Year Types[b]													
Wet (32%)	491	1,019	2,994	5,507	5,784	4,953	3,109	2,220	1,005	627	260	1,140	29,110
Above Normal (15%)	386	715	1,138	2,898	3,621	3,371	1,699	1,310	592	607	249	710	17,296
Below Normal (17%)	399	498	800	1,338	2,009	1,283	1,165	854	495	442	246	214	9,740
Dry (22%)	364	493	508	877	1,109	1,105	749	614	432	333	255	179	7,017
Critical (15%)	292	355	349	699	691	717	526	384	318	264	247	179	5,021

Alternative 5A (ELT) minus Existing Condition

	Monthly Outflow Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	202	-98	259	11	628	-385	-182	-522	-716	4	-70	570	617
20%	301	420	-289	347	602	119	-388	-299	-286	125	-38	684	488
30%	299	443	-165	25	-322	-160	-173	-243	-105	48	-28	858	230
40%	178	259	-29	-317	114	-78	-255	-264	-16	6	0	440	475
50%	71	282	18	-170	-130	-182	-148	-193	17	0	0	-36	-532
60%	0	22	-51	9	-146	-151	-108	-58	9	7	0	-24	46
70%	0	0	-17	13	-47	-92	-90	-34	23	0	0	-5	-562
80%	0	0	-32	-1	-70	-62	-70	7	24	0	-5	0	-140
90%	-17	-32	0	0	-56	-33	-15	2	35	-18	-20	0	161
Long Term													
Full Simulation Period[a]	100	126	18	32	107	-24	-117	-152	-128	-14	-31	250	166
Water Year Types[b]													
Wet (32%)	93	172	31	225	382	98	-128	-303	-390	-77	-69	571	606
Above Normal (15%)	139	138	30	-143	104	41	-204	-178	-110	27	3	492	340
Below Normal (17%)	124	149	65	-75	-57	-195	-140	-148	19	2	0	9	-248
Dry (22%)	109	80	-39	-29	-60	-118	-93	-31	37	24	-42	-20	-182
Critical (15%)	37	55	8	2	-42	-15	-13	16	2	4	-3	0	49

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-46-2-5. Sacramento/San Joaquin River Delta, Monthly Outflow Volume

No Action Alternative (ELT)

	Monthly Outflow Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	624	893	4,466	6,833	7,713	5,390	4,098	2,966	1,225	776	307	1,153	33,408
20%	596	868	2,141	4,489	5,083	4,166	2,718	1,752	624	679	275	1,134	25,278
30%	576	813	1,124	3,124	3,546	2,816	1,715	1,225	507	575	261	1,049	20,631
40%	419	604	728	1,756	2,873	2,050	1,507	1,026	463	493	248	660	16,751
50%	331	586	548	1,315	1,966	1,567	1,127	865	431	492	246	217	10,686
60%	246	364	360	1,059	1,275	1,267	912	740	422	443	246	181	9,049
70%	246	268	292	792	898	1,079	716	597	405	341	246	179	7,380
80%	246	268	277	628	746	747	607	517	383	307	246	179	6,562
90%	221	214	277	556	500	573	576	447	321	304	242	179	5,526
Long Term													
Full Simulation Period[a]	410	686	1,449	2,758	3,092	2,700	1,776	1,300	650	506	264	564	16,156
Water Year Types[b]													
Wet (32%)	502	1,034	3,062	5,604	5,824	5,027	3,266	2,354	1,076	665	271	1,123	29,808
Above Normal (15%)	401	740	1,191	3,009	3,617	3,425	1,855	1,419	608	654	247	704	17,870
Below Normal (17%)	384	517	824	1,358	2,081	1,382	1,262	905	480	468	253	225	10,138
Dry (22%)	371	499	522	909	1,170	1,192	802	615	418	343	285	183	7,308
Critical (15%)	307	356	336	744	708	735	529	389	318	306	248	179	5,154

Alternative 2D (ELT)

	Monthly Outflow Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	613	900	3,885	6,533	7,795	5,259	3,659	2,441	995	625	268	1,180	31,604
20%	576	874	2,067	4,475	4,973	4,068	2,367	1,172	689	556	250	1,170	24,631
30%	564	811	1,055	2,671	3,302	2,517	1,380	1,015	572	516	246	1,085	19,348
40%	497	573	788	1,677	2,680	1,973	1,077	943	536	492	246	679	14,776
50%	472	516	579	1,404	1,848	1,442	919	835	486	492	246	179	10,252
60%	459	268	414	982	1,132	1,073	835	762	455	400	246	179	8,981
70%	449	268	282	848	871	924	658	603	428	307	246	179	7,244
80%	417	268	277	721	733	724	591	554	422	307	232	179	6,471
90%	317	208	277	575	535	588	554	438	348	246	215	179	5,450
Long Term													
Full Simulation Period[a]	494	657	1,406	2,669	3,014	2,590	1,557	1,157	660	451	248	569	15,473
Water Year Types[b]													
Wet (32%)	570	1,013	2,929	5,411	5,748	4,935	2,901	2,025	1,053	596	259	1,144	28,582
Above Normal (15%)	485	654	1,164	2,858	3,611	3,279	1,483	1,203	631	558	248	717	16,889
Below Normal (17%)	488	489	798	1,327	1,912	1,266	1,080	866	529	417	242	214	9,627
Dry (22%)	451	481	557	921	1,064	1,026	729	617	443	326	232	179	7,025
Critical (15%)	413	348	331	728	704	709	516	383	318	256	258	179	5,143

Alternative 2D (ELT) minus No Action Alternative (ELT)

	Monthly Outflow Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	-11	7	-581	-300	81	-131	-439	-524	-230	-151	-39	27	-1,804
20%	-19	6	-73	-14	-111	-98	-351	-580	65	-122	-25	35	-646
30%	-12	-2	-69	-454	-244	-300	-336	-210	65	-59	-15	36	-1,283
40%	78	-32	60	-79	-193	-77	-430	-83	73	-1	-2	19	-1,975
50%	141	-70	31	88	-118	-126	-207	-30	55	0	0	-39	-434
60%	213	-96	54	-77	-144	-194	-77	21	33	-44	0	-3	-68
70%	203	0	-10	56	-27	-155	-58	6	23	-34	0	0	-136
80%	171	0	0	93	-12	-23	-16	37	39	0	-14	0	-92
90%	96	-6	0	18	35	15	-22	-9	27	-58	-27	0	-76
Long Term													
Full Simulation Period[a]	84	-29	-43	-89	-78	-111	-219	-143	10	-56	-16	6	-683
Water Year Types[b]													
Wet (32%)	67	-20	-133	-194	-77	-92	-364	-329	-23	-69	-13	21	-1,226
Above Normal (15%)	83	-86	-27	-151	-6	-146	-372	-216	22	-96	1	12	-980
Below Normal (17%)	104	-27	-25	-31	-169	-116	-183	-40	49	-51	-11	-11	-511
Dry (22%)	81	-18	36	12	-106	-166	-73	2	25	-17	-53	-5	-283
Critical (15%)	105	-8	-5	-16	-4	-25	-13	-6	0	-50	9	0	-11

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-46-2-6. Sacramento/San Joaquin River Delta, Monthly Outflow Volume

No Action Alternative (ELT)

	Monthly Outflow Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	624	893	4,466	6,833	7,713	5,390	4,098	2,966	1,225	776	307	1,153	33,408
20%	596	868	2,141	4,489	5,083	4,166	2,718	1,752	624	679	275	1,134	25,278
30%	576	813	1,124	3,124	3,546	2,816	1,715	1,225	507	575	261	1,049	20,631
40%	419	604	728	1,756	2,873	2,050	1,507	1,026	463	493	248	660	16,751
50%	331	586	548	1,315	1,966	1,567	1,127	865	431	492	246	217	10,686
60%	246	364	360	1,059	1,275	1,267	912	740	422	443	246	181	9,049
70%	246	268	292	792	898	1,079	716	597	405	341	246	179	7,380
80%	246	268	277	628	746	747	607	517	383	307	246	179	6,562
90%	221	214	277	556	500	573	576	447	321	304	242	179	5,526
Long Term													
Full Simulation Period[a]	410	686	1,449	2,758	3,092	2,700	1,776	1,300	650	506	264	564	16,156
Water Year Types[b]													
Wet (32%)	502	1,034	3,062	5,604	5,824	5,027	3,266	2,354	1,076	665	271	1,123	29,808
Above Normal (15%)	401	740	1,191	3,009	3,617	3,425	1,855	1,419	608	654	247	704	17,870
Below Normal (17%)	384	517	824	1,358	2,081	1,382	1,262	905	480	468	253	225	10,138
Dry (22%)	371	499	522	909	1,170	1,192	802	615	418	343	285	183	7,308
Critical (15%)	307	356	336	744	708	735	529	389	318	306	248	179	5,154

Alternative 4A (ELT)

	Monthly Outflow Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	615	893	4,133	6,255	7,631	5,318	4,099	2,976	1,137	545	247	1,190	32,814
20%	576	870	2,059	4,507	4,910	4,146	2,724	1,771	679	498	246	1,170	25,032
30%	564	811	1,091	2,749	3,622	2,669	1,710	1,231	542	492	246	1,096	20,267
40%	497	576	814	1,753	2,741	1,972	1,502	1,032	496	492	246	688	16,331
50%	472	521	607	1,413	1,819	1,473	1,113	885	452	401	246	180	10,341
60%	460	268	400	1,075	1,169	1,145	953	740	433	400	246	179	8,832
70%	446	268	278	869	884	964	707	620	420	307	245	179	7,409
80%	416	268	277	744	731	727	615	529	398	307	215	179	6,522
90%	314	208	277	578	500	588	570	446	341	246	215	179	5,547
Long Term													
Full Simulation Period[a]	499	665	1,422	2,725	3,036	2,634	1,778	1,301	652	423	241	573	15,950
Water Year Types[b]													
Wet (32%)	583	1,025	2,978	5,508	5,818	5,008	3,262	2,338	1,047	562	256	1,149	29,534
Above Normal (15%)	482	681	1,151	2,862	3,567	3,363	1,867	1,428	631	510	246	728	17,516
Below Normal (17%)	493	490	811	1,377	1,916	1,312	1,276	904	505	380	237	216	9,916
Dry (22%)	451	479	559	977	1,094	1,027	798	634	431	315	220	179	7,162
Critical (15%)	416	350	327	754	700	714	531	394	318	251	240	179	5,174

Alternative 4A (ELT) minus No Action Alternative (ELT)

	Monthly Outflow Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	-9	0	-333	-578	-82	-73	1	11	-88	-230	-60	37	-594
20%	-19	2	-81	18	-173	-21	6	19	54	-181	-29	35	-245
30%	-12	-2	-33	-375	76	-147	-5	6	34	-83	-15	47	-364
40%	78	-28	86	-3	-131	-78	-5	6	33	-1	-2	28	-420
50%	142	-65	59	97	-147	-95	-14	20	21	-90	0	-37	-345
60%	214	-96	40	16	-107	-122	41	0	11	-44	0	-3	-217
70%	200	0	-14	77	-13	-115	-8	23	15	-34	-1	0	29
80%	170	0	0	117	-14	-20	9	12	15	0	-31	0	-41
90%	92	-6	0	21	0	15	-5	-1	20	-58	-27	0	21
Long Term													
Full Simulation Period[a]	90	-21	-28	-33	-55	-67	2	1	1	-83	-23	9	-206
Water Year Types[b]													
Wet (32%)	81	-9	-84	-97	-6	-19	-4	-15	-29	-103	-15	26	-274
Above Normal (15%)	81	-58	-40	-147	-49	-62	12	9	23	-144	-1	23	-354
Below Normal (17%)	109	-27	-13	19	-165	-71	14	-2	25	-88	-16	-9	-222
Dry (22%)	80	-20	37	68	-76	-165	-4	19	13	-28	-65	-4	-145
Critical (15%)	109	-6	-8	10	-8	-21	2	5	0	-55	-8	1	20

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-46-2-7. Sacramento/San Joaquin River Delta, Monthly Outflow Volume

No Action Alternative (ELT)

	Monthly Outflow Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	624	893	4,466	6,833	7,713	5,390	4,098	2,966	1,225	776	307	1,153	33,408
20%	596	868	2,141	4,489	5,083	4,166	2,718	1,752	624	679	275	1,134	25,278
30%	576	813	1,124	3,124	3,546	2,816	1,715	1,225	507	575	261	1,049	20,631
40%	419	604	728	1,756	2,873	2,050	1,507	1,026	463	493	248	660	16,751
50%	331	586	548	1,315	1,966	1,567	1,127	865	431	492	246	217	10,686
60%	246	364	360	1,059	1,275	1,267	912	740	422	443	246	181	9,049
70%	246	268	292	792	898	1,079	716	597	405	341	246	179	7,380
80%	246	268	277	628	746	747	607	517	383	307	246	179	6,562
90%	221	214	277	556	500	573	576	447	321	304	242	179	5,526
Long Term													
Full Simulation Period[a]	410	686	1,449	2,758	3,092	2,700	1,776	1,300	650	506	264	564	16,156
Water Year Types[b]													
Wet (32%)	502	1,034	3,062	5,604	5,824	5,027	3,266	2,354	1,076	665	271	1,123	29,808
Above Normal (15%)	401	740	1,191	3,009	3,617	3,425	1,855	1,419	608	654	247	704	17,870
Below Normal (17%)	384	517	824	1,358	2,081	1,382	1,262	905	480	468	253	225	10,138
Dry (22%)	371	499	522	909	1,170	1,192	802	615	418	343	285	183	7,308
Critical (15%)	307	356	336	744	708	735	529	389	318	306	248	179	5,154

Alternative 5A (ELT)

	Monthly Outflow Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	615	893	4,311	6,564	7,688	5,248	3,921	2,782	1,052	681	278	1,171	32,373
20%	584	873	1,903	4,474	5,020	3,987	2,546	1,567	592	661	253	1,153	24,541
30%	567	814	1,086	2,951	3,292	2,728	1,562	1,106	510	540	246	1,101	19,852
40%	425	604	692	1,630	2,960	2,003	1,325	936	457	498	246	669	15,966
50%	316	586	521	1,273	1,912	1,450	994	801	449	492	246	179	10,114
60%	246	307	346	1,086	1,171	1,180	834	708	431	407	246	179	8,927
70%	246	268	307	807	909	939	682	596	423	307	246	179	7,075
80%	246	268	277	608	705	725	594	544	399	307	241	179	6,350
90%	217	235	277	532	481	564	559	438	344	246	226	179	5,430
Long Term													
Full Simulation Period[a]	403	673	1,415	2,693	3,052	2,630	1,675	1,233	631	475	253	567	15,699
Water Year Types[b]													
Wet (32%)	491	1,019	2,994	5,507	5,784	4,953	3,109	2,220	1,005	627	260	1,140	29,110
Above Normal (15%)	386	715	1,138	2,898	3,621	3,371	1,699	1,310	592	607	249	710	17,296
Below Normal (17%)	399	498	800	1,338	2,009	1,283	1,165	854	495	442	246	214	9,740
Dry (22%)	364	493	508	877	1,109	1,105	749	614	432	333	255	179	7,017
Critical (15%)	292	355	349	699	691	717	526	384	318	264	247	179	5,021

Alternative 5A (ELT) minus No Action Alternative (ELT)

	Monthly Outflow Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	-9	0	-155	-269	-25	-142	-177	-184	-172	-95	-29	19	-1,035
20%	-12	5	-238	-15	-63	-180	-172	-184	-33	-17	-21	19	-736
30%	-10	1	-38	-174	-255	-89	-153	-119	3	-35	-15	52	-779
40%	6	0	-35	-126	87	-47	-182	-90	-6	4	-2	9	-784
50%	-14	0	-27	-43	-54	-117	-133	-64	18	0	0	-39	-572
60%	0	-57	-14	27	-105	-87	-78	-33	9	-36	0	-3	-122
70%	0	0	16	14	11	-139	-34	-1	17	-34	0	0	-305
80%	0	0	0	-20	-40	-22	-13	26	15	0	-5	0	-212
90%	-4	21	0	-25	-19	-9	-17	-9	23	-58	-16	0	-95
Long Term													
Full Simulation Period[a]	-7	-13	-34	-64	-40	-70	-101	-68	-19	-32	-11	4	-457
Water Year Types[b]													
Wet (32%)	-11	-15	-68	-98	-40	-74	-157	-133	-71	-38	-12	17	-699
Above Normal (15%)	-15	-25	-53	-112	4	-53	-156	-109	-16	-48	2	6	-574
Below Normal (17%)	15	-19	-24	-21	-72	-100	-97	-51	16	-26	-8	-10	-397
Dry (22%)	-6	-6	-14	-32	-61	-88	-53	-1	14	-10	-30	-4	-290
Critical (15%)	-15	-1	13	-45	-17	-18	-3	-4	0	-42	-1	0	-133

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

C.47. X2 Results

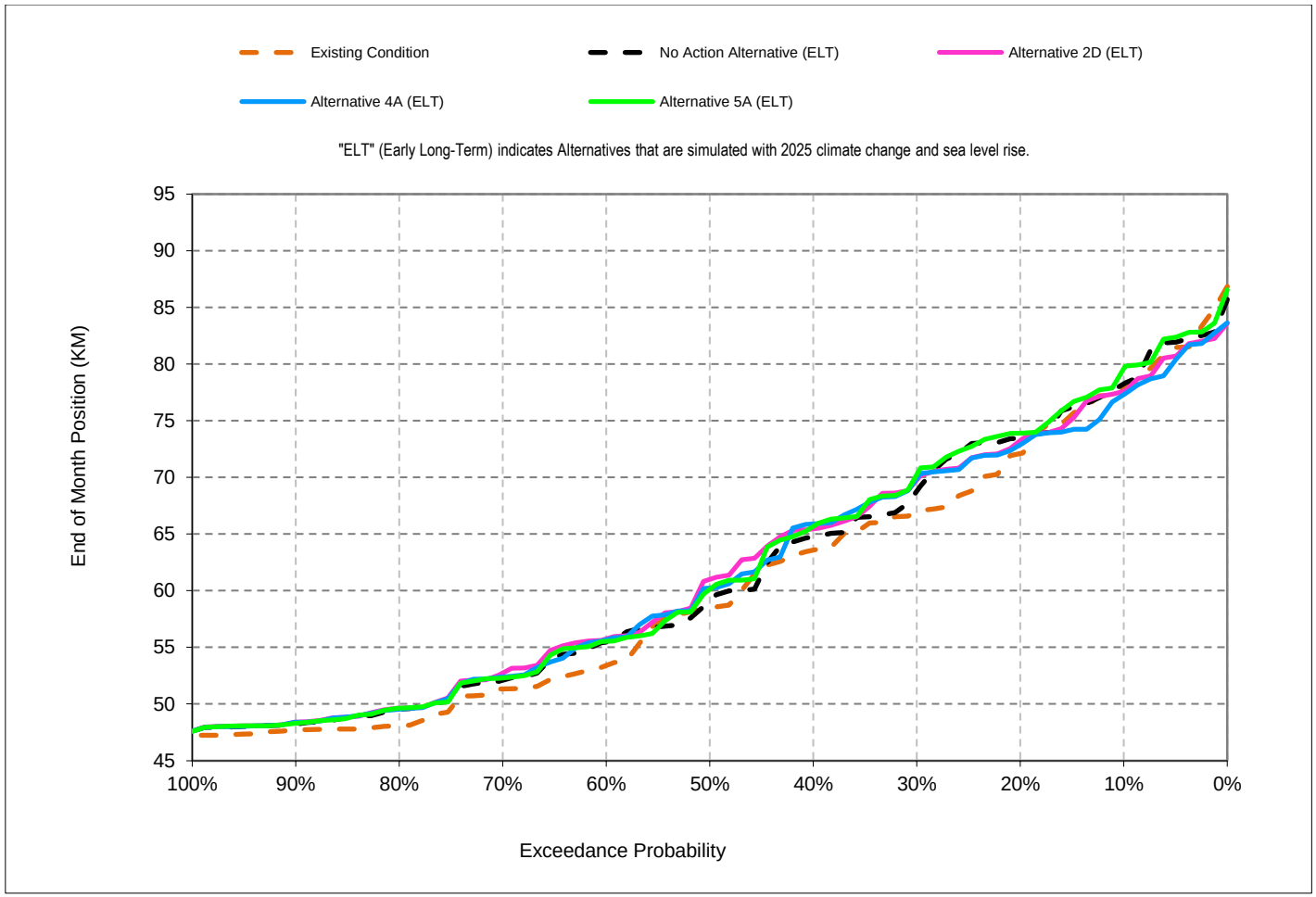


Figure C-47-1. X2, February Position

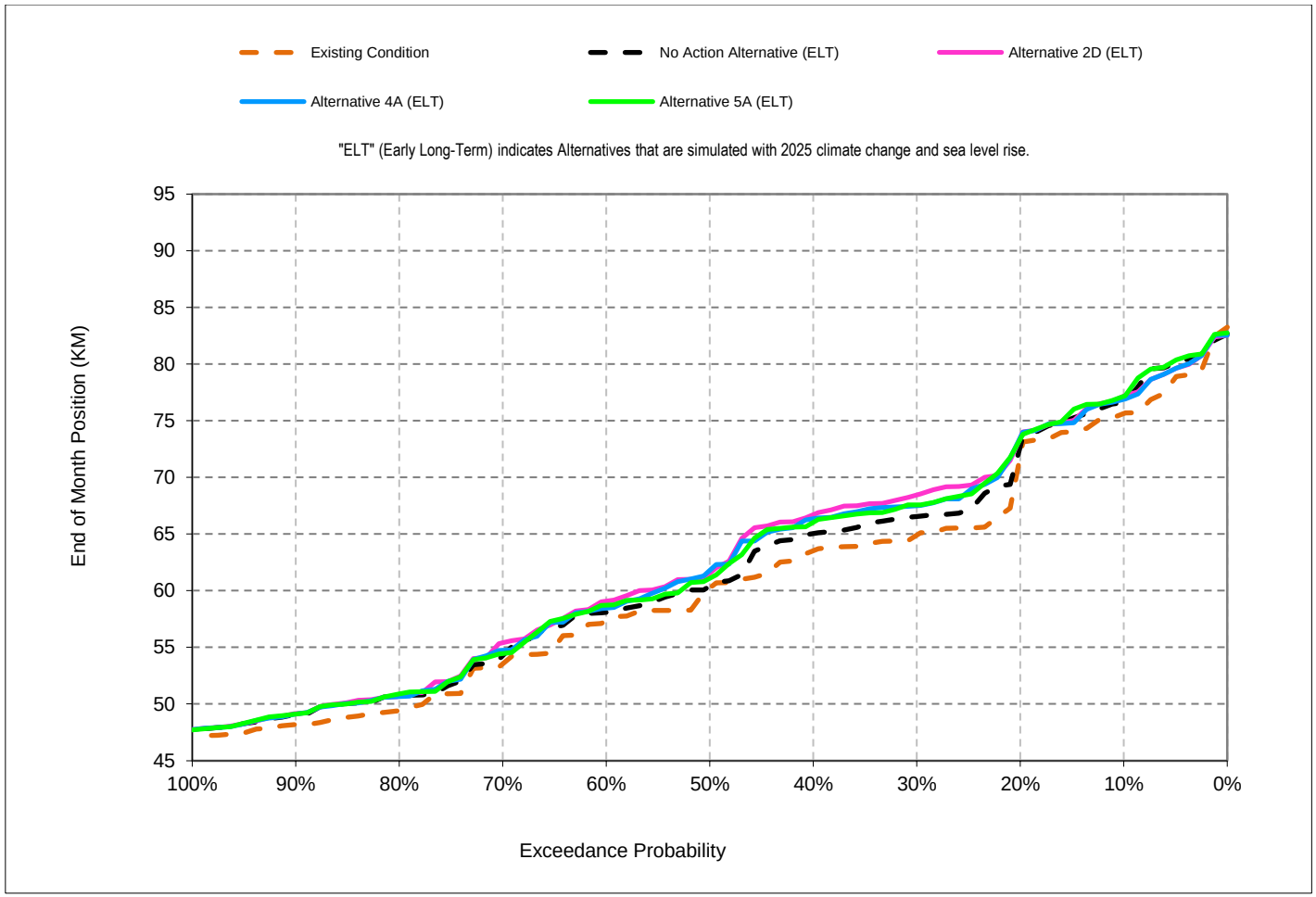


Figure C-47-2. X2, March Position

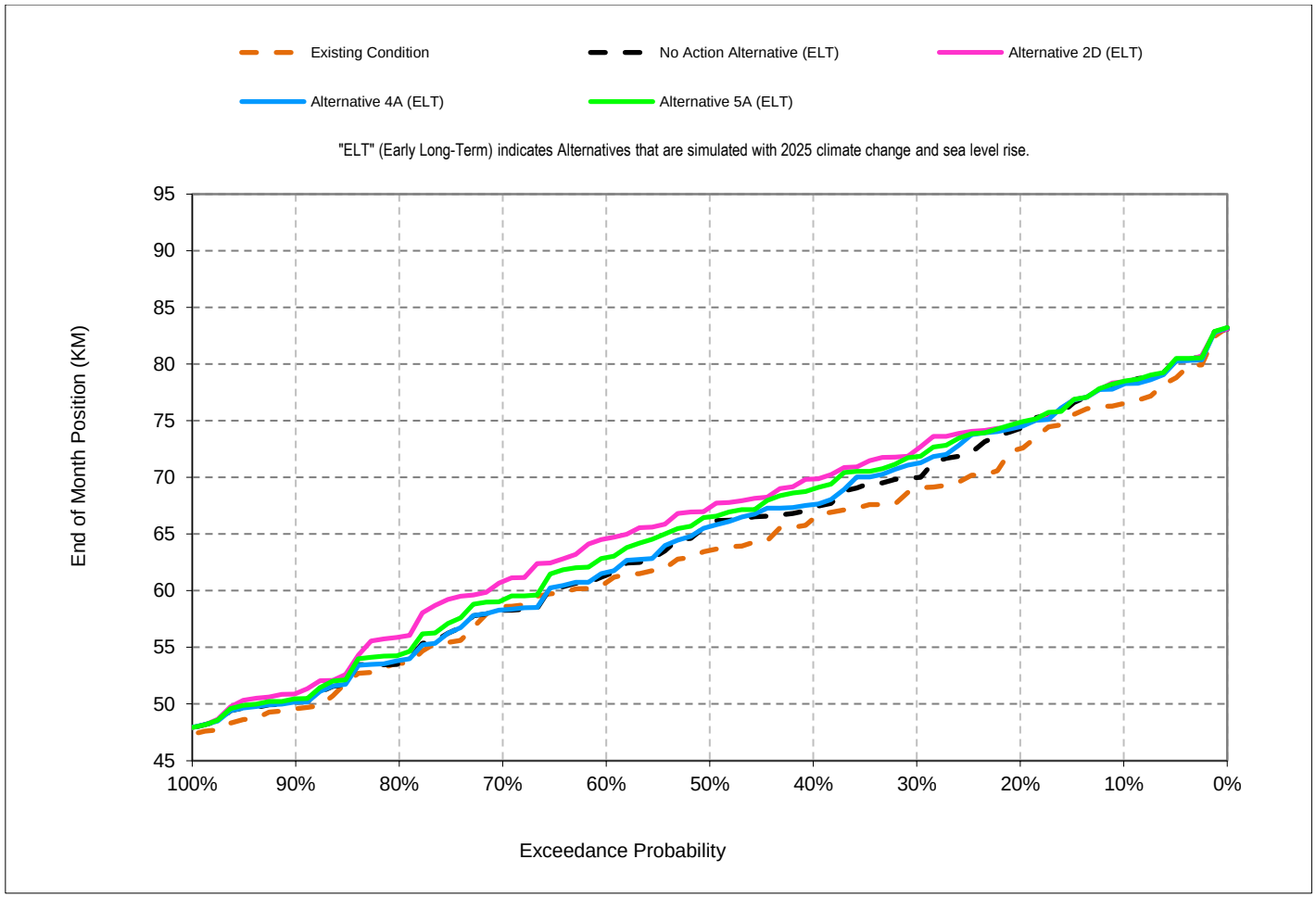


Figure C-47-3. X2, April Position

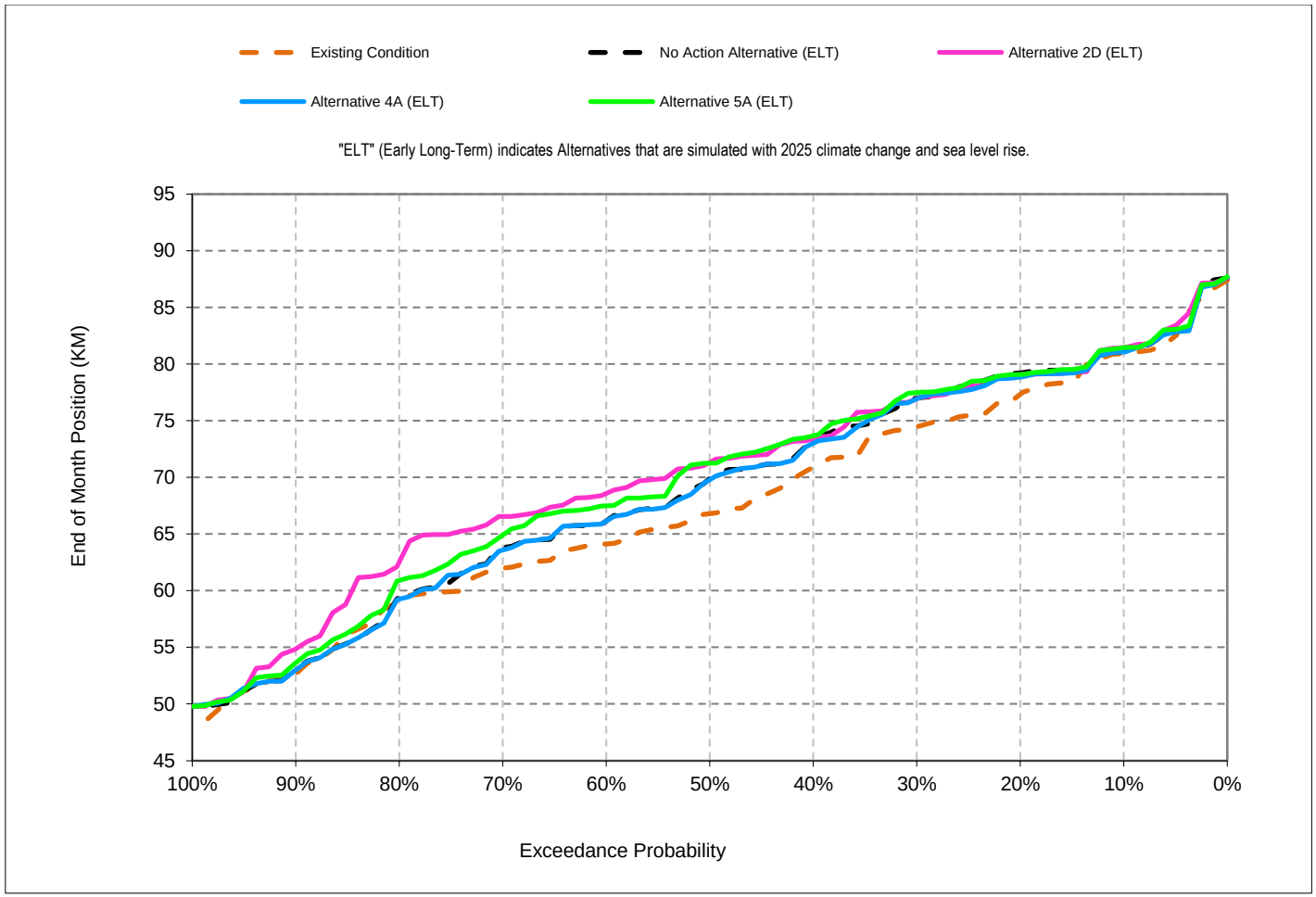


Figure C-47-4. X2, May Position

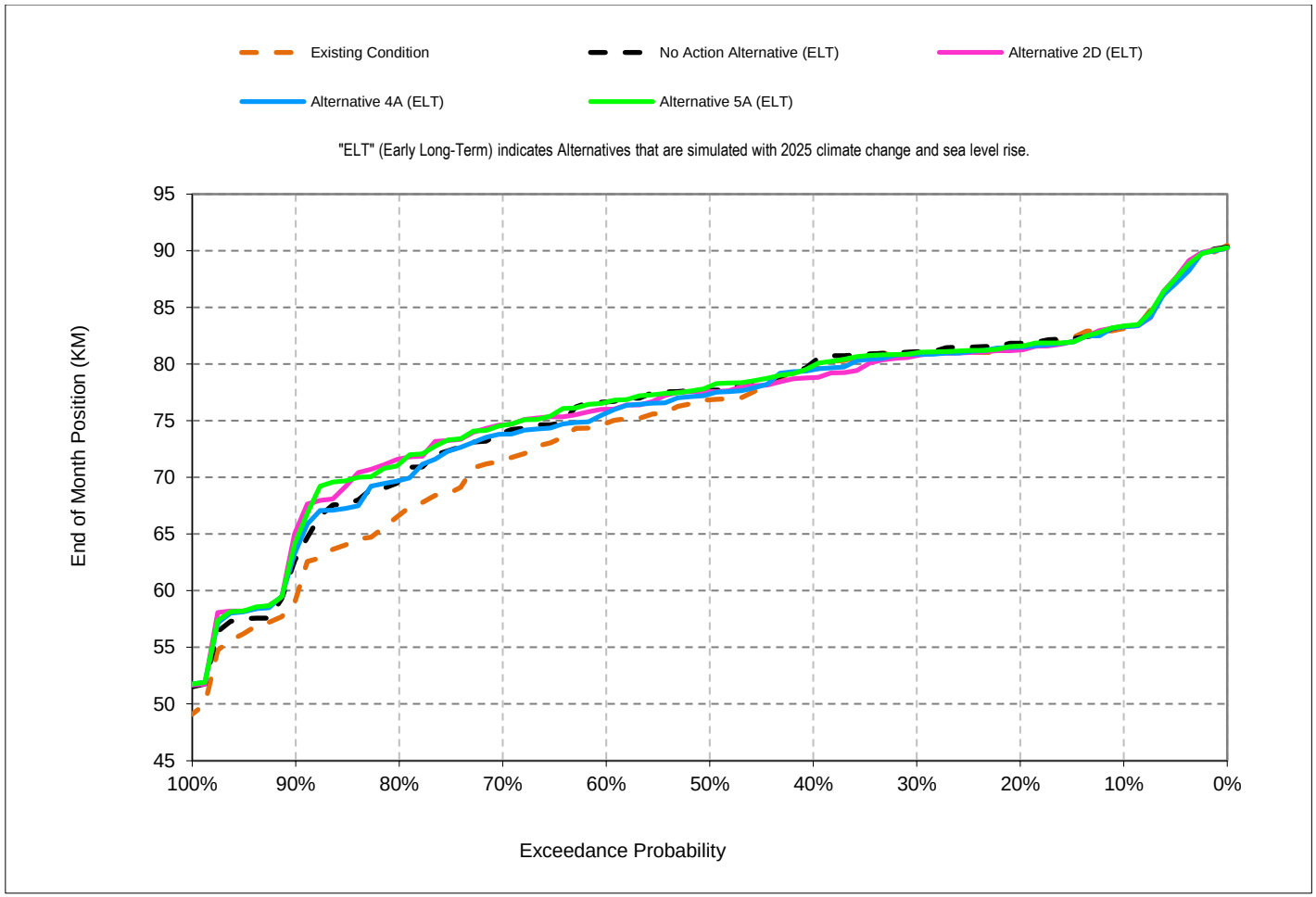


Figure C-47-5. X2, June Position

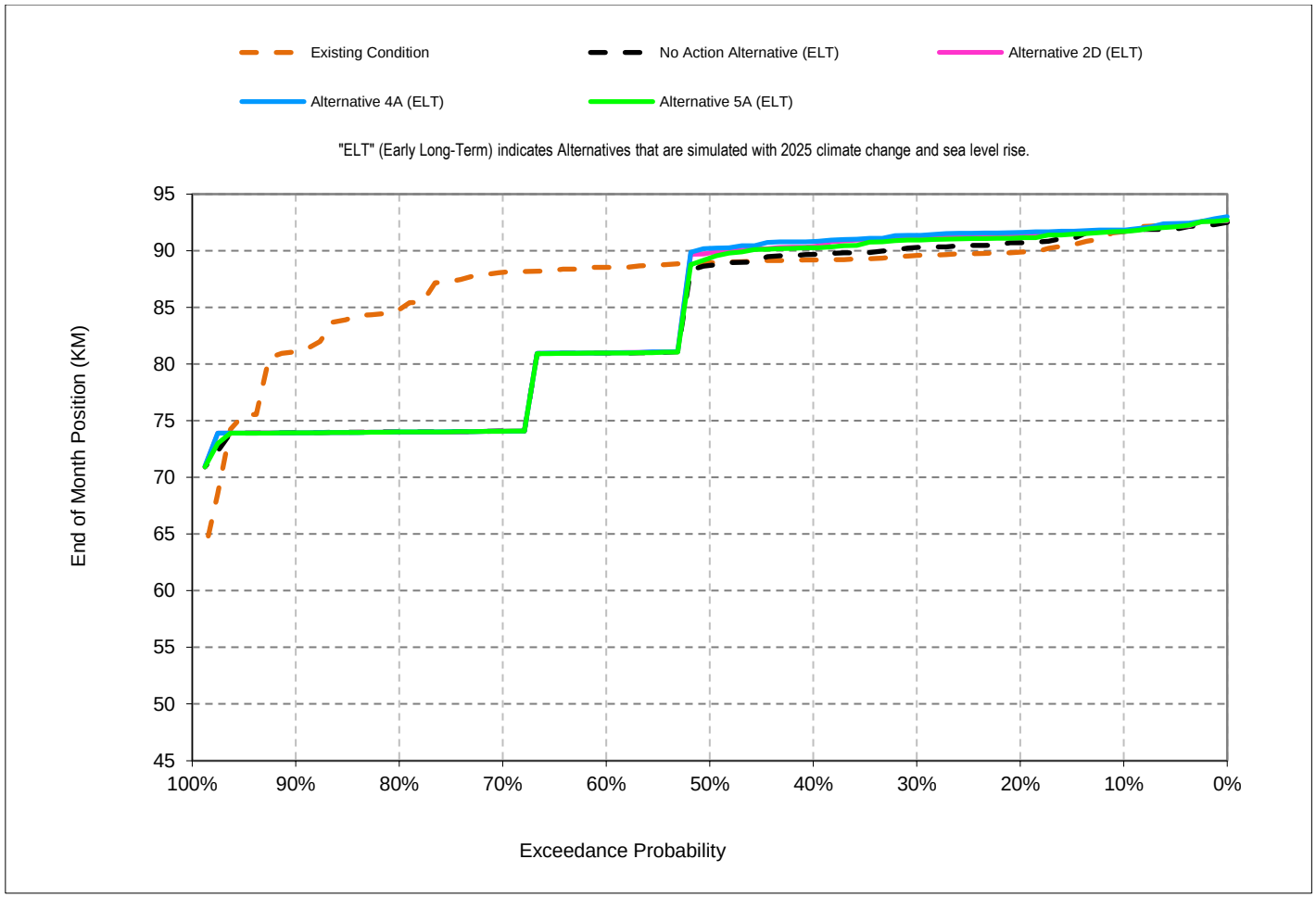


Figure C-47-6. X2, September Position

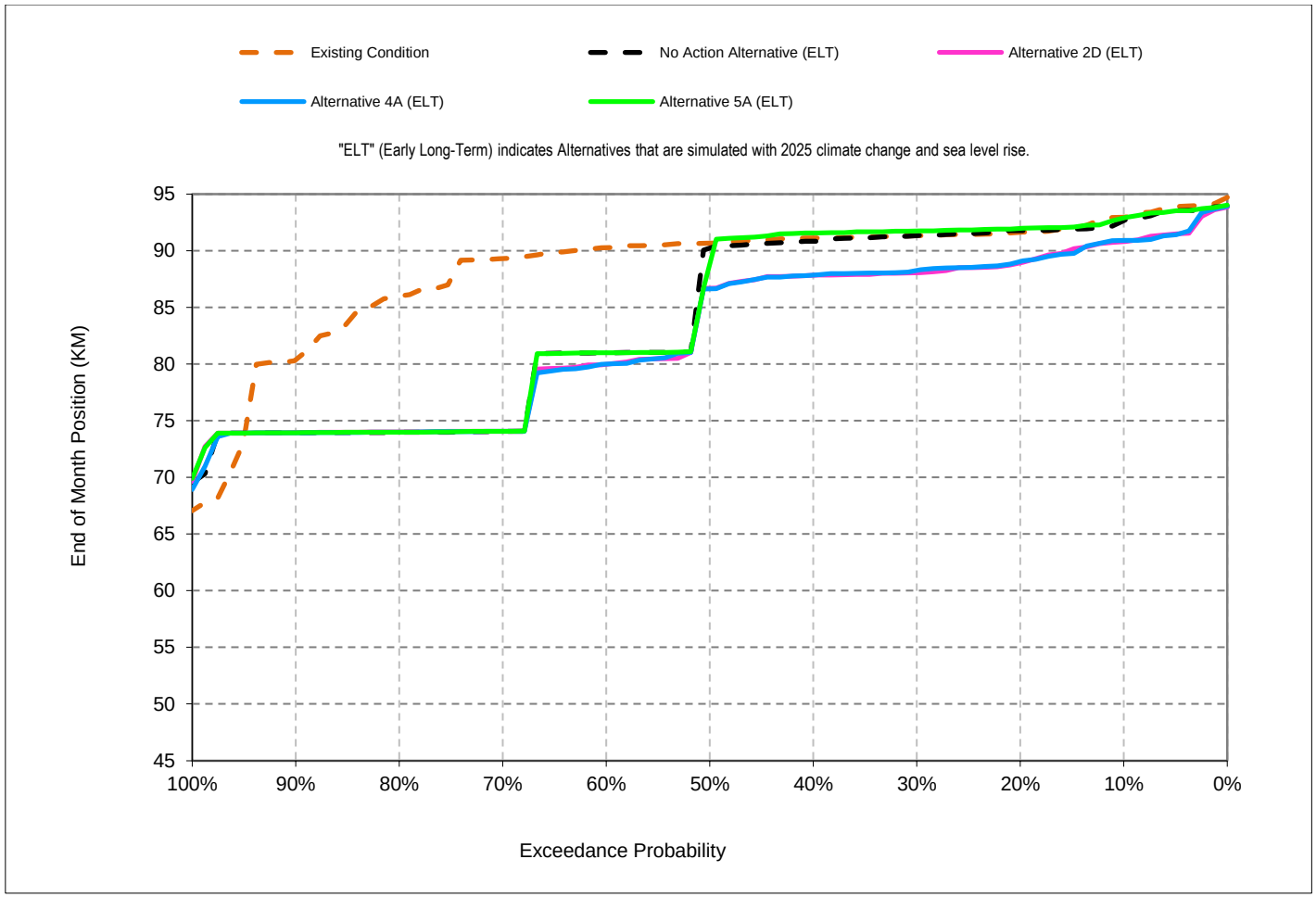


Figure C-47-7. X2, October Position

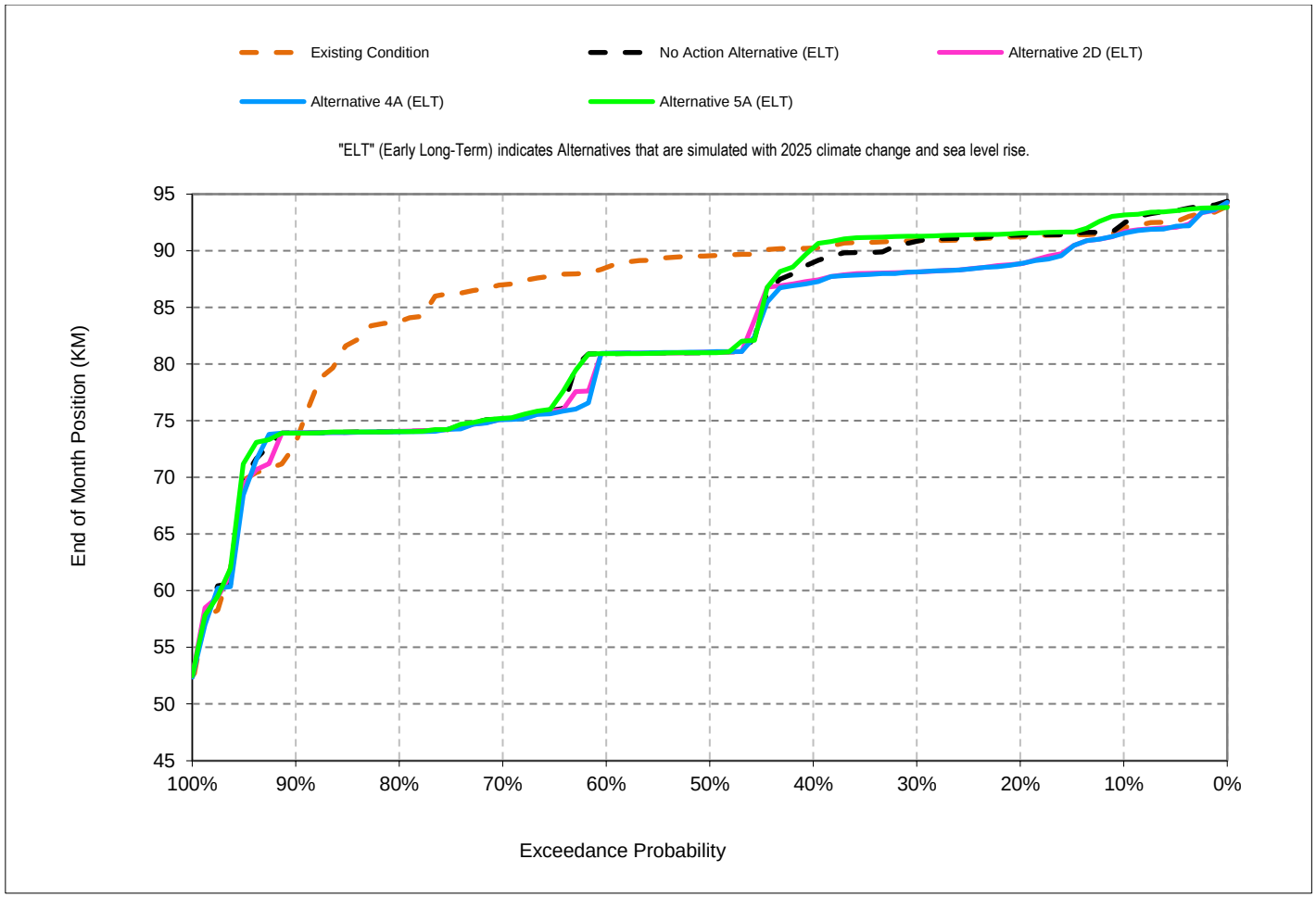


Figure C-47-8. X2, November Position

Table C-47-1. X2, End of Month Position

Existing Condition

Statistic	End of Month Position (KM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	93.0	92.0	90.6	84.8	77.8	75.6	76.5	80.9	83.2	86.4	89.6	91.7
20%	91.6	91.2	89.8	82.9	72.1	72.0	72.5	77.3	81.4	85.4	87.3	89.9
30%	91.3	90.9	88.6	80.0	66.9	64.9	69.0	74.5	81.0	84.6	86.6	89.6
40%	91.1	90.3	87.0	72.6	63.6	63.5	66.3	70.9	79.5	82.2	86.0	89.2
50%	90.7	89.6	85.4	69.0	58.5	60.3	63.6	66.8	76.9	81.2	85.7	89.0
60%	90.3	88.5	79.6	64.4	53.4	57.3	60.7	64.1	74.8	79.9	85.0	88.5
70%	89.3	87.0	70.9	55.1	51.3	53.5	58.6	62.0	71.5	78.6	84.7	88.2
80%	86.0	83.8	64.5	49.7	48.1	49.4	53.6	59.1	66.7	77.1	83.5	85.4
90%	80.4	73.1	53.3	48.2	47.7	48.2	49.6	52.6	59.3	72.9	82.4	81.4
Long Term												
Full Simulation Period[a]	88.5	86.3	77.9	67.6	60.7	60.7	63.4	67.5	74.6	80.4	85.2	87.4
Water Year Types[b]												
Wet (32%)	84.0	82.7	74.6	53.5	50.2	52.0	54.5	57.6	65.0	74.3	82.5	82.5
Above Normal (15%)	88.0	85.0	76.2	61.7	53.9	53.5	58.6	62.6	72.8	78.3	83.8	81.3
Below Normal (17%)	89.3	85.3	75.2	72.4	60.6	62.6	64.1	68.2	76.6	81.7	85.5	89.2
Dry (22%)	91.3	89.0	79.0	77.9	70.1	66.9	69.9	74.5	80.5	84.8	86.9	89.4
Critical (15%)	93.5	92.5	88.5	82.9	76.5	75.1	77.4	82.6	86.0	87.9	89.7	91.9

No Action Alternative (ELT)

Statistic	End of Month Position (KM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	92.7	92.4	90.9	84.0	78.3	76.6	78.3	81.1	83.3	86.1	89.6	91.7
20%	91.8	91.4	89.2	82.2	73.5	72.8	74.3	79.2	81.8	84.9	87.5	90.7
30%	91.3	90.8	84.7	80.2	68.8	66.5	70.0	77.0	81.1	84.3	86.8	90.3
40%	90.9	89.0	83.2	73.2	64.7	65.0	67.3	73.2	80.2	81.5	85.3	89.7
50%	90.2	81.0	81.3	70.9	59.1	60.4	65.9	69.9	77.7	80.4	84.7	88.8
60%	81.0	80.9	80.0	64.7	55.5	58.1	61.4	66.2	76.7	78.3	84.5	81.0
70%	74.1	75.1	71.1	56.0	52.1	54.3	58.3	63.8	73.9	77.3	84.1	74.1
80%	74.0	74.1	61.9	51.3	49.6	50.7	53.6	59.4	69.8	76.8	82.8	74.0
90%	73.9	73.9	53.1	49.3	48.2	49.1	50.2	53.0	62.8	74.4	82.2	74.0
Long Term												
Full Simulation Period[a]	84.1	82.3	76.5	67.9	61.7	61.9	64.6	68.9	75.9	80.3	85.2	83.7
Water Year Types[b]												
Wet (32%)	73.8	72.9	70.8	54.7	51.4	53.3	55.4	58.3	67.2	74.8	82.7	73.8
Above Normal (16%)	81.0	79.2	75.7	61.0	55.3	55.0	59.4	65.3	75.3	77.9	83.2	74.8
Below Normal (13%)	89.2	88.3	79.0	74.9	64.9	67.6	69.6	73.1	79.1	80.8	84.9	89.6
Dry (24%)	91.2	86.8	75.7	77.6	68.7	66.2	69.0	74.3	80.1	84.4	87.1	90.3
Critical (15%)	93.0	93.0	88.9	81.1	76.0	75.4	78.1	82.6	85.3	87.2	89.5	91.7

No Action Alternative (ELT) minus Existing Condition

Statistic	End of Month Position (KM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.3	**0.4**	**0.3**	-0.8	**0.4**	**1.0**	**1.8**	**0.2**	**0.2**	-0.3	**0.0**	**0.0**
20%	**0.1**	**0.1**	-0.6	-0.7	**1.4**	**0.8**	**1.8**	**1.9**	**0.4**	-0.5	**0.2**	**0.8**
30%	**0.0**	0.0	-3.9	**0.1**	**1.9**	**1.6**	**1.0**	**2.5**	**0.1**	-0.3	**0.1**	**0.7**
40%	-0.3	-1.3	-3.8	**0.6**	**1.2**	**1.5**	**1.0**	**2.3**	**0.6**	-0.7	-0.7	**0.5**
50%	-0.4	-8.5	-4.0	**1.9**	**0.6**	**0.2**	**2.3**	**3.1**	**0.8**	-0.8	-1.0	-0.2
60%	-9.3	-7.6	**0.3**	**0.3**	**2.1**	**0.8**	**0.7**	**2.0**	**1.9**	-1.6	-0.5	-7.6
70%	-15.3	-11.9	**0.2**	**0.9**	**0.8**	**0.7**	-0.3	**1.8**	**2.4**	-1.2	-0.5	-14.1
80%	-12.0	-9.7	-2.6	**1.6**	**1.5**	**1.2**	**0.0**	**0.3**	**3.1**	-0.3	-0.6	-11.4
90%	-6.5	**0.8**	-0.2	**1.1**	**0.5**	**0.9**	**0.6**	**0.4**	**3.5**	**1.5**	-0.2	-7.4
Long Term												
Full Simulation Period[a]	-4.4	-4.0	-1.4	**0.3**	**1.0**	**1.2**	**1.1**	**1.3**	**1.3**	-0.2	-0.1	-3.7
Water Year Types[b]												
Wet	-10.1	-9.9	-3.8	**1.2**	**1.2**	**1.2**	**1.0**	**0.8**	**2.2**	**0.6**	**0.2**	-8.7
Above Normal	-7.0	-5.8	-0.5	-0.7	**1.4**	**1.5**	**0.8**	**2.6**	**2.5**	-0.4	-0.7	-6.5
Below Normal	-0.1	**3.1**	**3.8**	**2.5**	**4.3**	**5.0**	**5.5**	**4.9**	**2.5**	-0.9	-0.6	**0.3**
Dry	-0.1	-2.1	-3.3	-0.3	-1.4	-0.6	-0.9	-0.2	-0.4	-0.4	**0.2**	**0.8**
Critical	-0.5	**0.5**	**0.3**	-1.8	-0.5	**0.4**	**0.7**	0.0	-0.7	-0.7	-0.2	-0.1

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999) calculated for current and future climate.

Positive differences highlighted in red indicate eastward movement of X2 position

Table C-47-2. X2, End of Month Position

Existing Condition

Statistic	End of Month Position (KM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	93.0	92.0	90.6	84.8	77.8	75.6	76.5	80.9	83.2	86.4	89.6	91.7
20%	91.6	91.2	89.8	82.9	72.1	72.0	72.5	77.3	81.4	85.4	87.3	89.9
30%	91.3	90.9	88.6	80.0	66.9	64.9	69.0	74.5	81.0	84.6	86.6	89.6
40%	91.1	90.3	87.0	72.6	63.6	63.5	66.3	70.9	79.5	82.2	86.0	89.2
50%	90.7	89.6	85.4	69.0	58.5	60.3	63.6	66.8	76.9	81.2	85.7	89.0
60%	90.3	88.5	79.6	64.4	53.4	57.3	60.7	64.1	74.8	79.9	85.0	88.5
70%	89.3	87.0	70.9	55.1	51.3	53.5	58.6	62.0	71.5	78.6	84.7	88.2
80%	86.0	83.8	64.5	49.7	48.1	49.4	53.6	59.1	66.7	77.1	83.5	85.4
90%	80.4	73.1	53.3	48.2	47.7	48.2	49.6	52.6	59.3	72.9	82.4	81.4
Long Term												
Full Simulation Period[a]	88.5	86.3	77.9	67.6	60.7	60.7	63.4	67.5	74.6	80.4	85.2	87.4
Water Year Types[b]												
Wet (32%)	84.0	82.7	74.6	53.5	50.2	52.0	54.5	57.6	65.0	74.3	82.5	82.5
Above Normal (15%)	88.0	85.0	76.2	61.7	53.9	53.5	58.6	62.6	72.8	78.3	83.8	81.3
Below Normal (17%)	89.3	85.3	75.2	72.4	60.6	62.6	64.1	68.2	76.6	81.7	85.5	89.2
Dry (22%)	91.3	89.0	79.0	77.9	70.1	66.9	69.9	74.5	80.5	84.8	86.9	89.4
Critical (15%)	93.5	92.5	88.5	82.9	76.5	75.1	77.4	82.6	86.0	87.9	89.7	91.9

Alternative 2D (ELT)

Statistic	End of Month Position (KM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	90.8	91.7	89.9	84.0	77.6	77.2	78.5	81.5	83.3	86.5	89.8	91.7
20%	88.9	88.9	88.7	81.5	73.3	73.5	74.6	79.0	81.2	84.9	88.5	91.5
30%	88.1	88.1	84.8	78.0	69.8	68.5	72.5	77.0	80.8	84.4	88.1	91.1
40%	87.8	87.4	82.5	72.7	65.5	66.7	69.9	73.4	78.8	82.3	86.4	90.4
50%	86.7	81.1	81.3	70.1	61.0	61.6	67.3	71.3	77.6	81.0	85.1	89.9
60%	80.0	80.9	79.2	66.7	55.8	59.1	64.6	68.6	76.0	79.4	84.8	81.0
70%	74.1	75.1	72.3	56.5	52.7	55.4	60.8	66.6	74.6	78.7	84.5	74.1
80%	74.0	74.1	62.6	51.7	49.6	50.7	55.9	62.6	71.6	78.1	84.1	74.0
90%	74.0	73.9	53.8	49.5	48.4	49.2	50.9	54.9	65.3	75.5	83.5	73.9
Long Term												
Full Simulation Period[a]	82.7	81.5	76.5	67.7	61.9	62.6	66.1	70.3	76.0	81.0	86.1	84.1
Water Year Types[b]												
Wet (32%)	73.8	72.8	70.7	54.9	51.7	53.7	57.0	60.8	68.2	75.9	83.6	73.9
Above Normal (16%)	80.1	79.3	75.7	61.2	55.3	55.6	61.7	67.6	75.5	79.0	84.1	74.8
Below Normal (13%)	86.2	86.4	79.8	73.3	64.5	68.1	70.8	73.5	78.0	81.3	85.7	90.2
Dry (24%)	88.5	85.0	75.6	77.0	69.3	67.9	70.8	75.0	79.8	84.4	88.3	91.3
Critical (15%)	91.6	92.2	88.4	81.4	76.2	75.7	78.4	83.0	85.5	88.1	90.1	91.9

Alternative 2D (ELT) minus Existing Condition

Statistic	End of Month Position (KM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-2.1	-0.4	-0.7	-0.8	-0.3	**1.6**	**1.9**	**0.6**	**0.2**	**0.2**	**0.2**	**0.0**
20%	-2.7	-2.4	-1.1	-1.4	**1.1**	**1.5**	**2.0**	**1.7**	-0.2	-0.5	**1.2**	**1.6**
30%	-3.3	-2.8	-3.8	-2.0	**2.8**	**3.6**	**3.5**	**2.5**	-0.2	-0.3	**1.5**	**1.5**
40%	-3.3	-2.9	-4.6	**0.0**	**1.9**	**3.2**	**3.5**	**2.5**	-0.7	**0.1**	**0.4**	**1.2**
50%	-4.0	-8.5	-4.1	**1.1**	**2.5**	**1.3**	**3.8**	**4.5**	**0.7**	-0.2	-0.6	**1.0**
60%	-10.3	-7.6	-0.4	**2.3**	**2.4**	**1.7**	**3.9**	**4.5**	**1.2**	-0.5	-0.2	-7.5
70%	-15.2	-11.9	**1.4**	**1.3**	**1.4**	**1.9**	**2.2**	**4.6**	**3.1**	**0.1**	-0.1	-14.1
80%	-12.0	-9.7	-1.9	**2.0**	**1.6**	**1.3**	**2.3**	**3.5**	**4.9**	**1.0**	**0.7**	-11.4
90%	-6.4	**0.8**	**0.5**	**1.3**	**0.7**	**1.0**	**1.4**	**2.2**	**6.0**	**2.6**	**1.1**	-7.4
Long Term												
Full Simulation Period[a]	-5.8	-4.8	-1.4	**0.1**	**1.2**	**1.9**	**2.6**	**2.8**	**1.4**	**0.5**	**0.8**	-3.3
Water Year Types[b]												
Wet	-10.1	-9.9	-3.9	**1.4**	**1.5**	**1.7**	**2.5**	**3.2**	**3.2**	**1.6**	**1.1**	-8.6
Above Normal	-7.9	-5.7	-0.5	-0.5	**1.4**	**2.1**	**3.1**	**5.0**	**2.7**	**0.7**	**0.3**	-6.5
Below Normal	-3.1	**1.1**	**4.6**	**0.9**	**4.0**	**5.5**	**6.7**	**5.3**	**1.4**	-0.4	**0.2**	**0.9**
Dry	-2.8	-4.0	-3.4	-0.8	-0.7	**1.1**	**0.9**	**0.5**	-0.7	-0.4	**1.4**	**1.9**
Critical	-1.9	-0.3	-0.1	-1.5	-0.3	**0.7**	**1.0**	**0.4**	-0.5	**0.1**	**0.4**	**0.0**

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999) calculated for current and future climate.

Positive differences highlighted in red indicate eastward movement of X2 position

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-47-3. X2, End of Month Position

Existing Condition

Statistic	End of Month Position (KM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	93.0	92.0	90.6	84.8	77.8	75.6	76.5	80.9	83.2	86.4	89.6	91.7
20%	91.6	91.2	89.8	82.9	72.1	72.0	72.5	77.3	81.4	85.4	87.3	89.9
30%	91.3	90.9	88.6	80.0	66.9	64.9	69.0	74.5	81.0	84.6	86.6	89.6
40%	91.1	90.3	87.0	72.6	63.6	63.5	66.3	70.9	79.5	82.2	86.0	89.2
50%	90.7	89.6	85.4	69.0	58.5	60.3	63.6	66.8	76.9	81.2	85.7	89.0
60%	90.3	88.5	79.6	64.4	53.4	57.3	60.7	64.1	74.8	79.9	85.0	88.5
70%	89.3	87.0	70.9	55.1	51.3	53.5	58.6	62.0	71.5	78.6	84.7	88.2
80%	86.0	83.8	64.5	49.7	48.1	49.4	53.6	59.1	66.7	77.1	83.5	85.4
90%	80.4	73.1	53.3	48.2	47.7	48.2	49.6	52.6	59.3	72.9	82.4	81.4
Long Term												
Full Simulation Period[a]	88.5	86.3	77.9	67.6	60.7	60.7	63.4	67.5	74.6	80.4	85.2	87.4
Water Year Types[b]												
Wet (32%)	84.0	82.7	74.6	53.5	50.2	52.0	54.5	57.6	65.0	74.3	82.5	82.5
Above Normal (15%)	88.0	85.0	76.2	61.7	53.9	53.5	58.6	62.6	72.8	78.3	83.8	81.3
Below Normal (17%)	89.3	85.3	75.2	72.4	60.6	62.6	64.1	68.2	76.6	81.7	85.5	89.2
Dry (22%)	91.3	89.0	79.0	77.9	70.1	66.9	69.9	74.5	80.5	84.8	86.9	89.4
Critical (15%)	93.5	92.5	88.5	82.9	76.5	75.1	77.4	82.6	86.0	87.9	89.7	91.9

Alternative 4A (ELT)

Statistic	End of Month Position (KM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	90.9	91.5	90.0	84.1	77.3	76.9	78.2	81.1	83.3	86.6	90.0	91.9
20%	89.1	88.9	89.2	80.8	72.9	73.5	74.5	78.9	81.5	84.8	88.7	91.6
30%	88.3	88.1	84.8	77.1	69.9	67.5	71.2	76.9	80.9	84.3	88.4	91.4
40%	87.9	87.2	82.3	72.4	65.9	66.4	67.6	73.0	79.5	83.3	87.1	90.8
50%	86.6	81.1	81.2	69.4	60.2	61.8	65.7	69.8	77.4	81.8	86.1	90.3
60%	80.0	81.0	79.2	65.4	55.7	58.5	61.6	66.1	75.7	80.5	84.9	81.0
70%	74.1	75.1	71.4	56.0	52.4	54.7	58.3	63.6	73.8	79.6	84.8	74.1
80%	74.0	74.0	62.9	51.7	49.5	50.6	53.8	59.3	69.7	78.4	84.6	74.0
90%	73.9	73.9	53.5	49.4	48.4	49.1	50.2	53.0	63.5	74.9	84.2	73.9
Long Term												
Full Simulation Period[a]	82.6	81.4	76.3	67.2	61.6	62.4	64.7	68.8	75.7	81.4	86.5	84.2
Water Year Types[b]												
Wet (32%)	73.9	73.0	70.7	54.6	51.4	53.4	55.5	58.3	67.3	76.2	83.9	73.9
Above Normal (16%)	80.1	79.2	75.5	60.9	55.6	55.3	59.4	65.2	74.8	80.1	84.8	74.8
Below Normal (13%)	85.9	86.0	79.2	72.8	64.4	67.7	69.4	72.9	78.6	82.5	86.6	90.5
Dry (24%)	88.6	84.7	75.4	76.4	68.7	67.7	69.7	74.2	79.7	84.6	88.5	91.5
Critical (15%)	91.6	92.2	88.3	81.1	76.0	75.7	78.2	82.5	85.2	88.0	90.4	92.2

Alternative 4A (ELT) minus Existing Condition

Statistic	End of Month Position (KM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-2.0	-0.5	-0.6	-0.7	-0.5	**1.3**	**1.7**	**0.2**	**0.1**	**0.3**	**0.4**	**0.2**
20%	-2.6	-2.4	-0.6	-2.1	**0.8**	**1.6**	**1.9**	**1.5**	**0.1**	-0.5	**1.4**	**1.7**
30%	-3.1	-2.8	-3.8	-2.9	**3.0**	**2.6**	**2.3**	**2.5**	-0.1	-0.3	**1.8**	**1.8**
40%	-3.3	-3.0	-4.7	-0.3	**2.3**	**2.8**	**1.3**	**2.1**	0.0	**1.1**	**1.1**	**1.6**
50%	-4.0	-8.5	-4.2	**0.4**	**1.7**	**1.5**	**2.1**	**3.0**	**0.5**	**0.6**	**0.4**	**1.3**
60%	-10.3	-7.6	-0.5	**0.9**	**2.3**	**1.1**	**0.9**	**2.0**	**0.9**	**0.6**	-0.1	-7.5
70%	-15.3	-11.9	**0.5**	**0.9**	**1.1**	**1.2**	-0.3	**1.6**	**2.3**	**1.0**	**0.1**	-14.1
80%	-12.0	-9.7	-1.6	**2.0**	**1.4**	**1.2**	**0.2**	**0.2**	**3.0**	**1.3**	**1.1**	-11.4
90%	-6.5	**0.8**	**0.2**	**1.2**	**0.7**	**0.9**	**0.6**	**0.4**	**4.2**	**2.0**	**1.8**	-7.4
Long Term												
Full Simulation Period[a]	-5.8	-4.9	-1.6	-0.4	**0.9**	**1.7**	**1.3**	**1.3**	**1.1**	**1.0**	**1.2**	-3.2
Water Year Types[b]												
Wet	-10.1	-9.8	-3.9	**1.0**	**1.2**	**1.3**	**1.0**	**0.8**	**2.3**	**2.0**	**1.4**	-8.6
Above Normal	-7.9	-5.8	-0.7	-0.8	**1.7**	**1.8**	**0.8**	**2.5**	**2.1**	**1.7**	**1.0**	-6.5
Below Normal	-3.4	**0.7**	**4.0**	**0.5**	**3.8**	**5.1**	**5.3**	**4.7**	**2.0**	**0.8**	**1.1**	**1.3**
Dry	-2.8	-4.2	-3.6	-1.5	-1.4	**0.9**	-0.2	-0.3	-0.8	-0.3	**1.6**	**2.0**
Critical	-1.9	-0.3	-0.2	-1.8	-0.5	**0.6**	**0.8**	-0.1	-0.8	**0.1**	**0.7**	**0.3**

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999) calculated for current and future climate.

Positive differences highlighted in red indicate eastward movement of X2 position

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-47-4. X2, End of Month Position

Existing Condition

Statistic	End of Month Position (KM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	93.0	92.0	90.6	84.8	77.8	75.6	76.5	80.9	83.2	86.4	89.6	91.7
20%	91.6	91.2	89.8	82.9	72.1	72.0	72.5	77.3	81.4	85.4	87.3	89.9
30%	91.3	90.9	88.6	80.0	66.9	64.9	69.0	74.5	81.0	84.6	86.6	89.6
40%	91.1	90.3	87.0	72.6	63.6	63.5	66.3	70.9	79.5	82.2	86.0	89.2
50%	90.7	89.6	85.4	69.0	58.5	60.3	63.6	66.8	76.9	81.2	85.7	89.0
60%	90.3	88.5	79.6	64.4	53.4	57.3	60.7	64.1	74.8	79.9	85.0	88.5
70%	89.3	87.0	70.9	55.1	51.3	53.5	58.6	62.0	71.5	78.6	84.7	88.2
80%	86.0	83.8	64.5	49.7	48.1	49.4	53.6	59.1	66.7	77.1	83.5	85.4
90%	80.4	73.1	53.3	48.2	47.7	48.2	49.6	52.6	59.3	72.9	82.4	81.4
Long Term												
Full Simulation Period[a]	88.5	86.3	77.9	67.6	60.7	60.7	63.4	67.5	74.6	80.4	85.2	87.4
Water Year Types[b]												
Wet (32%)	84.0	82.7	74.6	53.5	50.2	52.0	54.5	57.6	65.0	74.3	82.5	82.5
Above Normal (15%)	88.0	85.0	76.2	61.7	53.9	53.5	58.6	62.6	72.8	78.3	83.8	81.3
Below Normal (17%)	89.3	85.3	75.2	72.4	60.6	62.6	64.1	68.2	76.6	81.7	85.5	89.2
Dry (22%)	91.3	89.0	79.0	77.9	70.1	66.9	69.9	74.5	80.5	84.8	86.9	89.4
Critical (15%)	93.5	92.5	88.5	82.9	76.5	75.1	77.4	82.6	86.0	87.9	89.7	91.9

Alternative 5A (ELT)

Statistic	End of Month Position (KM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	92.9	93.2	91.0	84.7	79.6	77.2	78.5	81.4	83.4	86.5	89.7	91.7
20%	92.0	91.6	89.5	82.0	73.9	73.4	74.9	79.1	81.6	84.8	88.1	91.2
30%	91.8	91.3	85.0	80.6	70.3	67.6	71.8	77.5	81.0	84.3	87.8	91.0
40%	91.6	90.3	83.3	74.2	65.7	66.0	69.0	73.7	79.9	82.1	85.9	90.3
50%	88.9	81.0	81.4	72.0	60.1	61.1	66.5	71.3	78.1	80.7	84.9	89.6
60%	81.0	80.9	80.4	65.3	55.5	58.7	62.9	67.5	76.6	79.1	84.7	81.0
70%	74.1	75.2	71.4	56.3	52.3	54.4	59.2	64.9	74.6	78.4	84.3	74.1
80%	74.0	74.0	62.5	51.6	49.6	50.9	54.3	60.9	71.2	77.8	83.3	74.0
90%	73.9	73.9	53.6	49.4	48.3	49.1	50.5	53.6	64.4	75.3	82.9	73.9
Long Term												
Full Simulation Period[a]	84.3	82.6	76.9	68.3	62.1	62.4	65.4	69.6	76.2	80.8	85.7	84.0
Water Year Types[b]												
Wet (32%)	73.8	72.9	71.1	55.1	51.6	53.6	56.2	59.3	68.1	75.7	83.3	73.8
Above Normal (16%)	81.0	79.2	76.0	61.7	55.4	55.1	60.3	66.6	75.9	78.7	83.6	74.8
Below Normal (13%)	89.8	89.0	80.0	75.3	65.3	68.2	70.5	73.7	79.1	81.2	85.3	90.0
Dry (24%)	91.5	87.4	76.2	77.8	69.4	67.3	70.1	74.9	80.0	84.4	87.8	90.9
Critical (15%)	93.2	93.3	88.9	81.7	76.7	75.8	78.3	82.8	85.4	88.0	90.2	92.0

Alternative 5A (ELT) minus Existing Condition

Statistic	End of Month Position (KM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.0	**1.1**	**0.3**	-0.1	**1.8**	**1.5**	**2.0**	**0.5**	**0.2**	**0.2**	**0.2**	**0.0**
20%	**0.3**	**0.3**	-0.2	-0.9	**1.8**	**1.4**	**2.3**	**1.7**	**0.2**	-0.5	**0.8**	**1.3**
30%	**0.4**	**0.4**	-3.6	**0.6**	**3.3**	**2.7**	**2.9**	**3.0**	**0.0**	-0.3	**1.1**	**1.4**
40%	**0.4**	**0.0**	-3.8	**1.6**	**2.1**	**2.5**	**2.6**	**2.8**	**0.3**	0.0	-0.1	**1.1**
50%	-1.8	-8.6	-4.0	**3.0**	**1.6**	**0.8**	**3.0**	**4.5**	**1.2**	-0.4	-0.8	**0.6**
60%	-9.3	-7.6	**0.8**	**0.9**	**2.1**	**1.4**	**2.2**	**3.4**	**1.9**	-0.8	-0.3	-7.5
70%	-15.2	-11.8	**0.5**	**1.2**	**1.0**	**0.9**	**0.6**	**2.9**	**3.1**	-0.2	-0.4	-14.1
80%	-12.0	-9.7	-2.0	**1.9**	**1.6**	**1.4**	**0.7**	**1.9**	**4.5**	**0.7**	-0.1	-11.4
90%	-6.4	**0.8**	**0.2**	**1.2**	**0.6**	**0.9**	**0.9**	**1.0**	**5.1**	**2.4**	**0.5**	-7.4
Long Term												
Full Simulation Period[a]	-4.2	-3.7	-1.0	**0.7**	**1.4**	**1.7**	**1.9**	**2.1**	**1.6**	**0.4**	**0.5**	-3.4
Water Year Types[b]												
Wet	-10.1	-9.8	-3.5	**1.5**	**1.4**	**1.5**	**1.7**	**1.7**	**3.1**	**1.4**	**0.8**	-8.7
Above Normal	-7.0	-5.8	-0.2	0.0	**1.5**	**1.6**	**1.7**	**4.0**	**3.1**	**0.4**	-0.2	-6.5
Below Normal	**0.5**	**3.7**	**4.8**	**2.9**	**4.8**	**5.6**	**6.4**	**5.5**	**2.5**	-0.4	-0.2	**0.8**
Dry	**0.2**	-1.5	-2.8	-0.1	-0.7	**0.5**	**0.3**	**0.4**	-0.6	-0.5	**0.9**	**1.5**
Critical	-0.2	**0.8**	**0.4**	-1.2	**0.2**	**0.8**	**0.9**	**0.2**	-0.6	**0.1**	**0.5**	**0.1**

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999) calculated for current and future climate.

Positive differences highlighted in red indicate eastward movement of X2 position

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-47-5. X2, End of Month Position

No Action Alternative (ELT)

Statistic	End of Month Position (KM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	92.7	92.4	90.9	84.0	78.3	76.6	78.3	81.1	83.3	86.1	89.6	91.7
20%	91.8	91.4	89.2	82.2	73.5	72.8	74.3	79.2	81.8	84.9	87.5	90.7
30%	91.3	90.8	84.7	80.2	68.8	66.5	70.0	77.0	81.1	84.3	86.8	90.3
40%	90.9	89.0	83.2	73.2	64.7	65.0	67.3	73.2	80.2	81.5	85.3	89.7
50%	90.2	81.0	81.3	70.9	59.1	60.4	65.9	69.9	77.7	80.4	84.7	88.8
60%	81.0	80.9	80.0	64.7	55.5	58.1	61.4	66.2	76.7	78.3	84.5	81.0
70%	74.1	75.1	71.1	56.0	52.1	54.3	58.3	63.8	73.9	77.3	84.1	74.1
80%	74.0	74.1	61.9	51.3	49.6	50.7	53.6	59.4	69.8	76.8	82.8	74.0
90%	73.9	73.9	53.1	49.3	48.2	49.1	50.2	53.0	62.8	74.4	82.2	74.0
Long Term												
Full Simulation Period[a]	84.1	82.3	76.5	67.9	61.7	61.9	64.6	68.9	75.9	80.3	85.2	83.7
Water Year Types[b]												
Wet (32%)	73.8	72.9	70.8	54.7	51.4	53.3	55.4	58.3	67.2	74.8	82.7	73.8
Above Normal (16%)	81.0	79.2	75.7	61.0	55.3	55.0	59.4	65.3	75.3	77.9	83.2	74.8
Below Normal (13%)	89.2	88.3	79.0	74.9	64.9	67.6	69.6	73.1	79.1	80.8	84.9	89.6
Dry (24%)	91.2	86.8	75.7	77.6	68.7	66.2	69.0	74.3	80.1	84.4	87.1	90.3
Critical (15%)	93.0	93.0	88.9	81.1	76.0	75.4	78.1	82.6	85.3	87.2	89.5	91.7

Alternative 2D (ELT)

Statistic	End of Month Position (KM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	90.8	91.7	89.9	84.0	77.6	77.2	78.5	81.5	83.3	86.5	89.8	91.7
20%	88.9	88.9	88.7	81.5	73.3	73.5	74.6	79.0	81.2	84.9	88.5	91.5
30%	88.1	88.1	84.8	78.0	69.8	68.5	72.5	77.0	80.8	84.4	88.1	91.1
40%	87.8	87.4	82.5	72.7	65.5	66.7	69.9	73.4	78.8	82.3	86.4	90.4
50%	86.7	81.1	81.3	70.1	61.0	61.6	67.3	71.3	77.6	81.0	85.1	89.9
60%	80.0	80.9	79.2	66.7	55.8	59.1	64.6	68.6	76.0	79.4	84.8	81.0
70%	74.1	75.1	72.3	56.5	52.7	55.4	60.8	66.6	74.6	78.7	84.5	74.1
80%	74.0	74.1	62.6	51.7	49.6	50.7	55.9	62.6	71.6	78.1	84.1	74.0
90%	74.0	73.9	53.8	49.5	48.4	49.2	50.9	54.9	65.3	75.5	83.5	73.9
Long Term												
Full Simulation Period[a]	82.7	81.5	76.5	67.7	61.9	62.6	66.1	70.3	76.0	81.0	86.1	84.1
Water Year Types[b]												
Wet (32%)	73.8	72.8	70.7	54.9	51.7	53.7	57.0	60.8	68.2	75.9	83.6	73.9
Above Normal (16%)	80.1	79.3	75.7	61.2	55.3	55.6	61.7	67.6	75.5	79.0	84.1	74.8
Below Normal (13%)	86.2	86.4	79.8	73.3	64.5	68.1	70.8	73.5	78.0	81.3	85.7	90.2
Dry (24%)	88.5	85.0	75.6	77.0	69.3	67.9	70.8	75.0	79.8	84.4	88.3	91.3
Critical (15%)	91.6	92.2	88.4	81.4	76.2	75.7	78.4	83.0	85.5	88.1	90.1	91.9

Alternative 2D (ELT) minus No Action Alternative (ELT)

Statistic	End of Month Position (KM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1.9	-0.8	-1.0	0.0	-0.7	**0.6**	**0.1**	**0.3**	**0.0**	**0.5**	**0.2**	0.0
20%	-2.8	-2.5	-0.5	-0.7	-0.2	**0.7**	**0.3**	-0.2	-0.6	0.0	**1.0**	**0.8**
30%	-3.3	-2.7	**0.2**	-2.1	**1.0**	**1.9**	**2.5**	0.0	-0.3	**0.0**	**1.4**	**0.8**
40%	-3.0	-1.6	-0.7	-0.5	**0.7**	**1.7**	**2.6**	**0.2**	-1.4	**0.8**	**1.0**	**0.7**
50%	-3.5	**0.0**	-0.1	-0.8	**1.9**	**1.1**	**1.5**	**1.4**	-0.1	**0.6**	**0.4**	**1.2**
60%	-1.0	**0.0**	-0.8	**2.0**	**0.3**	**1.0**	**3.2**	**2.4**	-0.6	**1.2**	**0.3**	**0.0**
70%	**0.0**	0.0	**1.2**	**0.5**	**0.6**	**1.1**	**2.5**	**2.8**	**0.7**	**1.4**	**0.4**	0.0
80%	**0.0**	**0.0**	**0.7**	**0.4**	**0.1**	**0.0**	**2.3**	**3.2**	**1.9**	**1.2**	**1.3**	0.0
90%	**0.0**	0.0	**0.7**	**0.2**	**0.2**	**0.1**	**0.8**	**1.8**	**2.4**	**1.1**	**1.3**	0.0
Long Term												
Full Simulation Period[a]	-1.4	-0.8	0.0	-0.2	**0.2**	**0.8**	**1.5**	**1.4**	**0.1**	**0.7**	**0.9**	**0.4**
Water Year Types[b]												
Wet	0.0	-0.1	-0.1	**0.2**	**0.3**	**0.4**	**1.6**	**2.4**	**1.0**	**1.1**	**0.9**	**0.0**
Above Normal	-0.9	**0.1**	0.0	**0.2**	**0.0**	**0.6**	**2.3**	**2.4**	**0.2**	**1.1**	**0.9**	**0.0**
Below Normal	-3.0	-1.9	**0.8**	-1.6	-0.4	**0.5**	**1.3**	**0.4**	-1.1	**0.5**	**0.8**	**0.6**
Dry	-2.7	-1.8	-0.1	-0.5	**0.6**	**1.7**	**1.8**	**0.7**	-0.3	**0.0**	**1.2**	**1.1**
Critical	-1.4	-0.8	-0.4	**0.3**	**0.1**	**0.3**	**0.3**	**0.4**	**0.2**	**0.9**	**0.6**	**0.1**

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999) calculated for current and future climate.

Positive differences highlighted in red indicate eastward movement of X2 position

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-47-6. X2, End of Month Position

No Action Alternative (ELT)

Statistic	End of Month Position (KM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	92.7	92.4	90.9	84.0	78.3	76.6	78.3	81.1	83.3	86.1	89.6	91.7
20%	91.8	91.4	89.2	82.2	73.5	72.8	74.3	79.2	81.8	84.9	87.5	90.7
30%	91.3	90.8	84.7	80.2	68.8	66.5	70.0	77.0	81.1	84.3	86.8	90.3
40%	90.9	89.0	83.2	73.2	64.7	65.0	67.3	73.2	80.2	81.5	85.3	89.7
50%	90.2	81.0	81.3	70.9	59.1	60.4	65.9	69.9	77.7	80.4	84.7	88.8
60%	81.0	80.9	80.0	64.7	55.5	58.1	61.4	66.2	76.7	78.3	84.5	81.0
70%	74.1	75.1	71.1	56.0	52.1	54.3	58.3	63.8	73.9	77.3	84.1	74.1
80%	74.0	74.1	61.9	51.3	49.6	50.7	53.6	59.4	69.8	76.8	82.8	74.0
90%	73.9	73.9	53.1	49.3	48.2	49.1	50.2	53.0	62.8	74.4	82.2	74.0
Long Term												
Full Simulation Period[a]	84.1	82.3	76.5	67.9	61.7	61.9	64.6	68.9	75.9	80.3	85.2	83.7
Water Year Types[b]												
Wet (32%)	73.8	72.9	70.8	54.7	51.4	53.3	55.4	58.3	67.2	74.8	82.7	73.8
Above Normal (16%)	81.0	79.2	75.7	61.0	55.3	55.0	59.4	65.3	75.3	77.9	83.2	74.8
Below Normal (13%)	89.2	88.3	79.0	74.9	64.9	67.6	69.6	73.1	79.1	80.8	84.9	89.6
Dry (24%)	91.2	86.8	75.7	77.6	68.7	66.2	69.0	74.3	80.1	84.4	87.1	90.3
Critical (15%)	93.0	93.0	88.9	81.1	76.0	75.4	78.1	82.6	85.3	87.2	89.5	91.7

Alternative 4A (ELT)

Statistic	End of Month Position (KM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	90.9	91.5	90.0	84.1	77.3	76.9	78.2	81.1	83.3	86.6	90.0	91.9
20%	89.1	88.9	89.2	80.8	72.9	73.5	74.5	78.9	81.5	84.8	88.7	91.6
30%	88.3	88.1	84.8	77.1	69.9	67.5	71.2	76.9	80.9	84.3	88.4	91.4
40%	87.9	87.2	82.3	72.4	65.9	66.4	67.6	73.0	79.5	83.3	87.1	90.8
50%	86.6	81.1	81.2	69.4	60.2	61.8	65.7	69.8	77.4	81.8	86.1	90.3
60%	80.0	81.0	79.2	65.4	55.7	58.5	61.6	66.1	75.7	80.5	84.9	81.0
70%	74.1	75.1	71.4	56.0	52.4	54.7	58.3	63.6	73.8	79.6	84.8	74.1
80%	74.0	74.0	62.9	51.7	49.5	50.6	53.8	59.3	69.7	78.4	84.6	74.0
90%	73.9	73.9	53.5	49.4	48.4	49.1	50.2	53.0	63.5	74.9	84.2	73.9
Long Term												
Full Simulation Period[a]	82.6	81.4	76.3	67.2	61.6	62.4	64.7	68.8	75.7	81.4	86.5	84.2
Water Year Types[b]												
Wet (32%)	73.9	73.0	70.7	54.6	51.4	53.4	55.5	58.3	67.3	76.2	83.9	73.9
Above Normal (16%)	80.1	79.2	75.5	60.9	55.6	55.3	59.4	65.2	74.8	80.1	84.8	74.8
Below Normal (13%)	85.9	86.0	79.2	72.8	64.4	67.7	69.4	72.9	78.6	82.5	86.6	90.5
Dry (24%)	88.6	84.7	75.4	76.4	68.7	67.7	69.7	74.2	79.7	84.6	88.5	91.5
Critical (15%)	91.6	92.2	88.3	81.1	76.0	75.7	78.2	82.5	85.2	88.0	90.4	92.2

Alternative 4A (ELT) minus No Action Alternative (ELT)

Statistic	End of Month Position (KM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1.8	-0.9	-0.9	**0.1**	-1.0	**0.3**	-0.1	0.0	0.0	**0.5**	**0.4**	**0.1**
20%	-2.7	-2.5	**0.0**	-1.4	-0.6	**0.8**	**0.2**	-0.4	-0.4	-0.1	**1.2**	**0.9**
30%	-3.1	-2.7	**0.1**	-3.0	**1.1**	**1.0**	**1.2**	-0.1	-0.2	**0.0**	**1.6**	**1.0**
40%	-3.0	-1.8	-0.8	-0.8	**1.2**	**1.3**	**0.3**	-0.2	-0.7	**1.8**	**1.8**	**1.2**
50%	-3.6	**0.0**	-0.1	-1.5	**1.1**	**1.4**	-0.2	-0.1	-0.3	**1.4**	**1.4**	**1.5**
60%	-1.0	**0.0**	-0.8	**0.6**	**0.2**	**0.4**	**0.2**	0.0	-1.0	**2.3**	**0.4**	**0.0**
70%	0.0	-0.1	**0.3**	**0.1**	**0.3**	**0.5**	**0.0**	-0.2	-0.1	**2.3**	**0.7**	0.0
80%	**0.0**	0.0	**1.0**	**0.4**	0.0	0.0	**0.2**	-0.1	0.0	**1.6**	**1.7**	**0.0**
90%	0.0	**0.0**	**0.4**	**0.1**	**0.2**	**0.0**	0.0	0.0	**0.7**	**0.5**	**2.1**	0.0
Long Term												
Full Simulation Period[a]	-1.4	-0.9	-0.2	-0.6	0.0	**0.5**	**0.2**	-0.1	-0.2	**1.2**	**1.3**	**0.5**
Water Year Types[b]												
Wet	**0.0**	**0.1**	-0.1	-0.2	0.0	**0.1**	**0.0**	**0.0**	**0.1**	**1.4**	**1.2**	**0.1**
Above Normal	-0.9	0.0	-0.3	-0.1	**0.3**	**0.3**	0.0	-0.1	-0.5	**2.2**	**1.7**	**0.0**
Below Normal	-3.3	-2.4	**0.2**	-2.1	-0.5	**0.1**	-0.2	-0.2	-0.5	**1.7**	**1.7**	**0.9**
Dry	-2.7	-2.1	-0.3	-1.2	0.0	**1.5**	**0.7**	-0.1	-0.4	**0.1**	**1.4**	**1.2**
Critical	-1.4	-0.8	-0.5	-0.1	-0.1	**0.3**	**0.1**	-0.1	-0.1	**0.8**	**0.9**	**0.4**

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999) calculated for current and future climate.

Positive differences highlighted in red indicate eastward movement of X2 position

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-47-7. X2, End of Month Position

No Action Alternative (ELT)

Statistic	End of Month Position (KM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	92.7	92.4	90.9	84.0	78.3	76.6	78.3	81.1	83.3	86.1	89.6	91.7
20%	91.8	91.4	89.2	82.2	73.5	72.8	74.3	79.2	81.8	84.9	87.5	90.7
30%	91.3	90.8	84.7	80.2	68.8	66.5	70.0	77.0	81.1	84.3	86.8	90.3
40%	90.9	89.0	83.2	73.2	64.7	65.0	67.3	73.2	80.2	81.5	85.3	89.7
50%	90.2	81.0	81.3	70.9	59.1	60.4	65.9	69.9	77.7	80.4	84.7	88.8
60%	81.0	80.9	80.0	64.7	55.5	58.1	61.4	66.2	76.7	78.3	84.5	81.0
70%	74.1	75.1	71.1	56.0	52.1	54.3	58.3	63.8	73.9	77.3	84.1	74.1
80%	74.0	74.1	61.9	51.3	49.6	50.7	53.6	59.4	69.8	76.8	82.8	74.0
90%	73.9	73.9	53.1	49.3	48.2	49.1	50.2	53.0	62.8	74.4	82.2	74.0
Long Term												
Full Simulation Period[a]	84.1	82.3	76.5	67.9	61.7	61.9	64.6	68.9	75.9	80.3	85.2	83.7
Water Year Types[b]												
Wet (32%)	73.8	72.9	70.8	54.7	51.4	53.3	55.4	58.3	67.2	74.8	82.7	73.8
Above Normal (16%)	81.0	79.2	75.7	61.0	55.3	55.0	59.4	65.3	75.3	77.9	83.2	74.8
Below Normal (13%)	89.2	88.3	79.0	74.9	64.9	67.6	69.6	73.1	79.1	80.8	84.9	89.6
Dry (24%)	91.2	86.8	75.7	77.6	68.7	66.2	69.0	74.3	80.1	84.4	87.1	90.3
Critical (15%)	93.0	93.0	88.9	81.1	76.0	75.4	78.1	82.6	85.3	87.2	89.5	91.7

Alternative 5A (ELT)

Statistic	End of Month Position (KM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	92.9	93.2	91.0	84.7	79.6	77.2	78.5	81.4	83.4	86.5	89.7	91.7
20%	92.0	91.6	89.5	82.0	73.9	73.4	74.9	79.1	81.6	84.8	88.1	91.2
30%	91.8	91.3	85.0	80.6	70.3	67.6	71.8	77.5	81.0	84.3	87.8	91.0
40%	91.6	90.3	83.3	74.2	65.7	66.0	69.0	73.7	79.9	82.1	85.9	90.3
50%	88.9	81.0	81.4	72.0	60.1	61.1	66.5	71.3	78.1	80.7	84.9	89.6
60%	81.0	80.9	80.4	65.3	55.5	58.7	62.9	67.5	76.6	79.1	84.7	81.0
70%	74.1	75.2	71.4	56.3	52.3	54.4	59.2	64.9	74.6	78.4	84.3	74.1
80%	74.0	74.0	62.5	51.6	49.6	50.9	54.3	60.9	71.2	77.8	83.3	74.0
90%	73.9	73.9	53.6	49.4	48.3	49.1	50.5	53.6	64.4	75.3	82.9	73.9
Long Term												
Full Simulation Period[a]	84.3	82.6	76.9	68.3	62.1	62.4	65.4	69.6	76.2	80.8	85.7	84.0
Water Year Types[b]												
Wet (32%)	73.8	72.9	71.1	55.1	51.6	53.6	56.2	59.3	68.1	75.7	83.3	73.8
Above Normal (16%)	81.0	79.2	76.0	61.7	55.4	55.1	60.3	66.6	75.9	78.7	83.6	74.8
Below Normal (13%)	89.8	89.0	80.0	75.3	65.3	68.2	70.5	73.7	79.1	81.2	85.3	90.0
Dry (24%)	91.5	87.4	76.2	77.8	69.4	67.3	70.1	74.9	80.0	84.4	87.8	90.9
Critical (15%)	93.2	93.3	88.9	81.7	76.7	75.8	78.3	82.8	85.4	88.0	90.2	92.0

Alternative 5A (ELT) minus No Action Alternative (ELT)

Statistic	End of Month Position (KM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**0.2**	**0.7**	**0.1**	**0.7**	**1.4**	**0.6**	**0.2**	**0.3**	**0.0**	**0.5**	**0.1**	0.0
20%	**0.2**	**0.2**	**0.3**	-0.2	**0.4**	**0.6**	**0.5**	-0.2	-0.3	0.0	**0.6**	**0.5**
30%	**0.4**	**0.4**	**0.4**	**0.5**	**1.5**	**1.0**	**1.8**	**0.5**	-0.1	0.0	**1.0**	**0.6**
40%	**0.7**	**1.3**	**0.1**	**1.0**	**0.9**	**1.0**	**1.7**	**0.4**	-0.3	**0.6**	**0.6**	**0.6**
50%	-1.4	0.0	**0.0**	**1.1**	**1.0**	**0.7**	**0.7**	**1.3**	**0.4**	**0.4**	**0.2**	**0.8**
60%	**0.0**	**0.0**	**0.5**	**0.6**	**0.1**	**0.6**	**1.5**	**1.3**	0.0	**0.8**	**0.2**	**0.0**
70%	**0.0**	**0.1**	**0.3**	**0.3**	**0.2**	**0.2**	**0.9**	**1.1**	**0.7**	**1.1**	**0.2**	0.0
80%	**0.0**	0.0	**0.6**	**0.3**	**0.1**	**0.2**	**0.7**	**1.5**	**1.4**	**0.9**	**0.5**	**0.0**
90%	**0.0**	0.0	**0.5**	**0.1**	**0.1**	**0.0**	**0.3**	**0.6**	**1.6**	**0.9**	**0.7**	0.0
Long Term												
Full Simulation Period[a]	**0.2**	**0.3**	**0.4**	**0.4**	**0.4**	**0.5**	**0.8**	**0.8**	**0.4**	**0.6**	**0.6**	**0.3**
Water Year Types[b]												
Wet	0.0	**0.1**	**0.3**	**0.3**	**0.2**	**0.3**	**0.7**	**1.0**	**0.9**	**0.9**	**0.6**	**0.0**
Above Normal	**0.0**	0.0	**0.2**	**0.7**	**0.1**	**0.1**	**0.9**	**1.3**	**0.6**	**0.8**	**0.5**	0.0
Below Normal	**0.5**	**0.6**	**0.9**	**0.4**	**0.4**	**0.6**	**0.9**	**0.6**	0.0	**0.4**	**0.5**	**0.5**
Dry	**0.3**	**0.6**	**0.5**	**0.2**	**0.7**	**1.1**	**1.1**	**0.6**	-0.1	-0.1	**0.6**	**0.6**
Critical	**0.2**	**0.3**	**0.0**	**0.6**	**0.7**	**0.4**	**0.2**	**0.2**	**0.1**	**0.8**	**0.7**	**0.3**

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999) calculated for current and future climate.

Positive differences highlighted in red indicate eastward movement of X2 position

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

C.48. Old and Middle River Flow

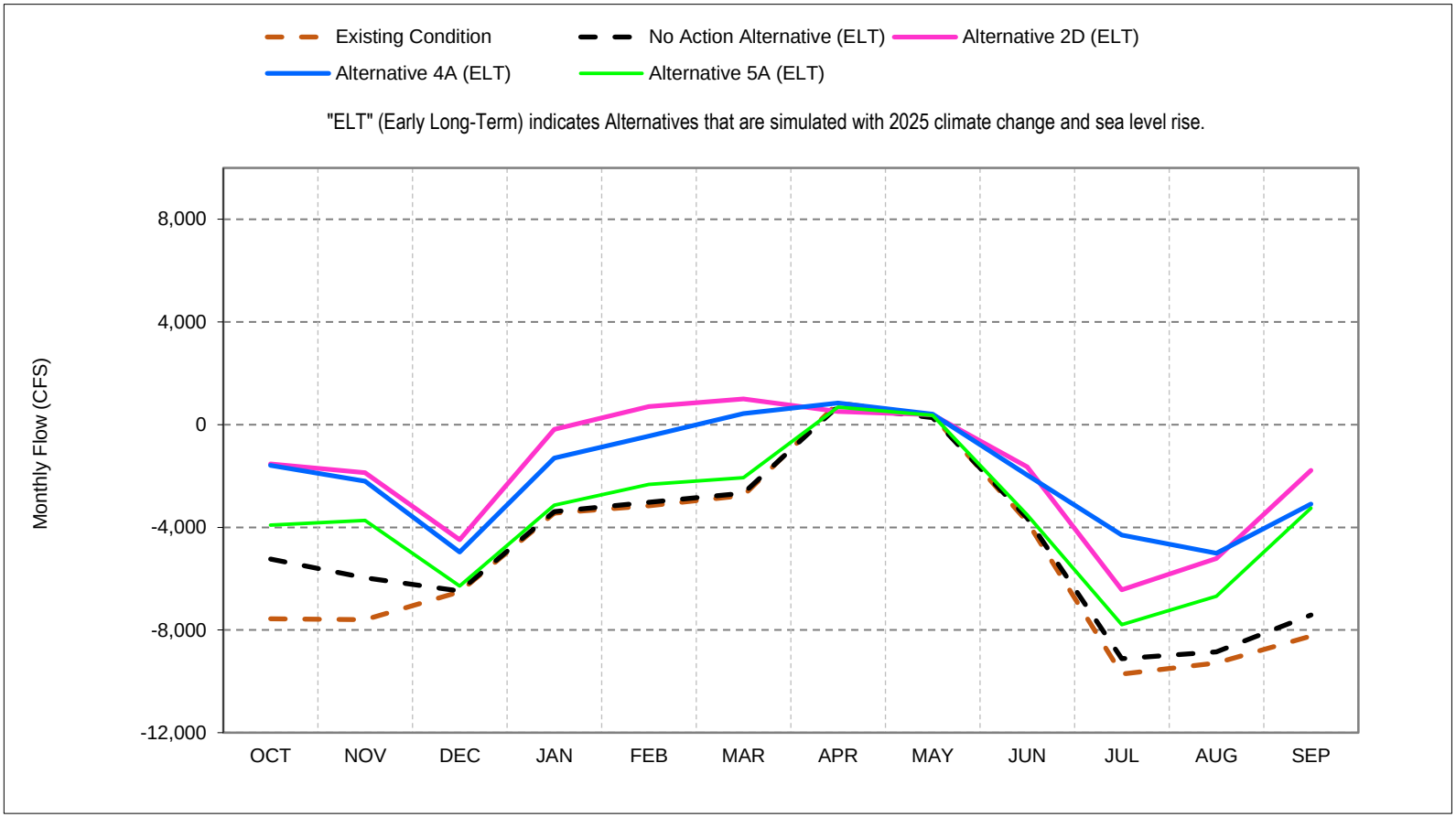
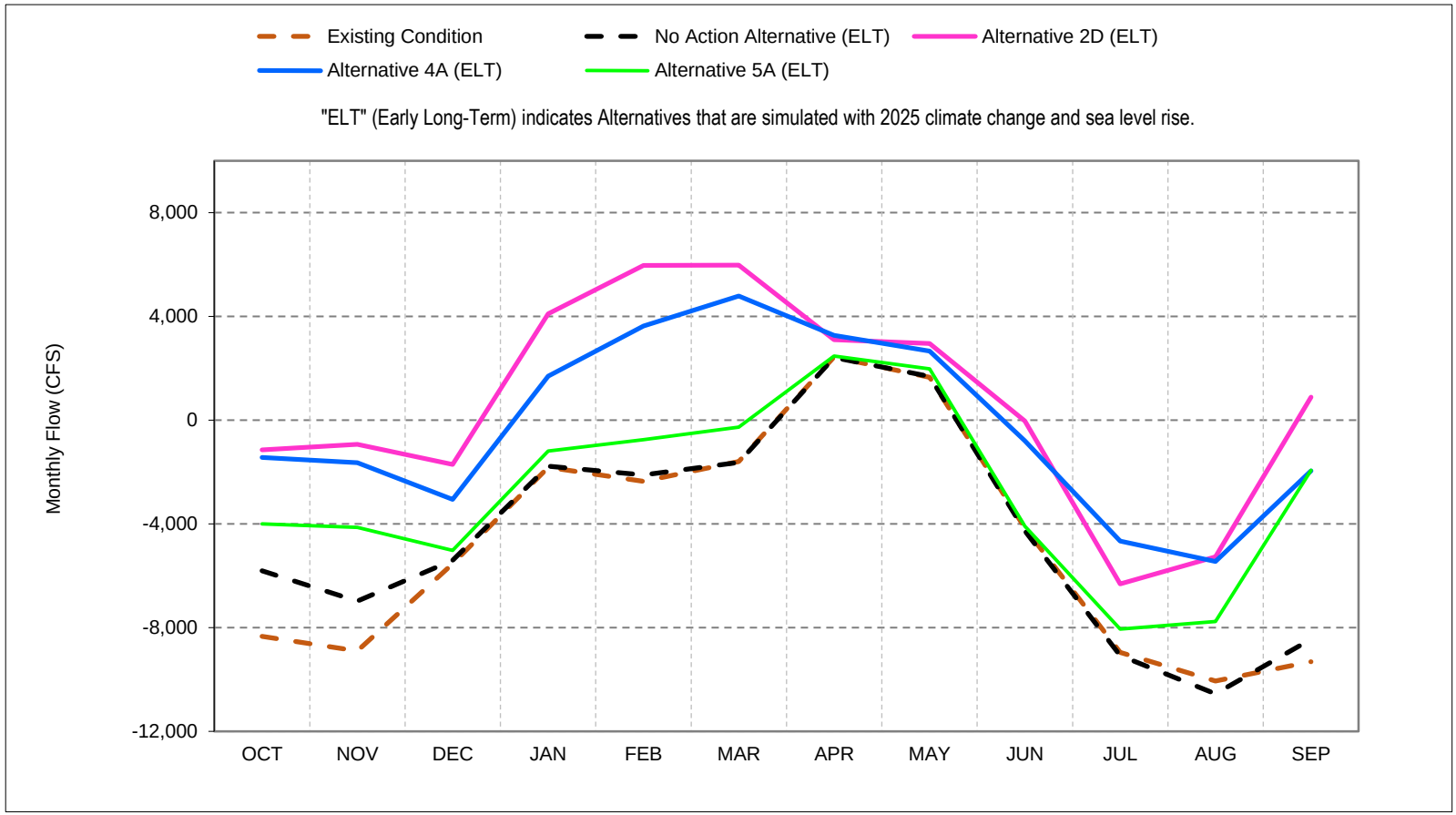
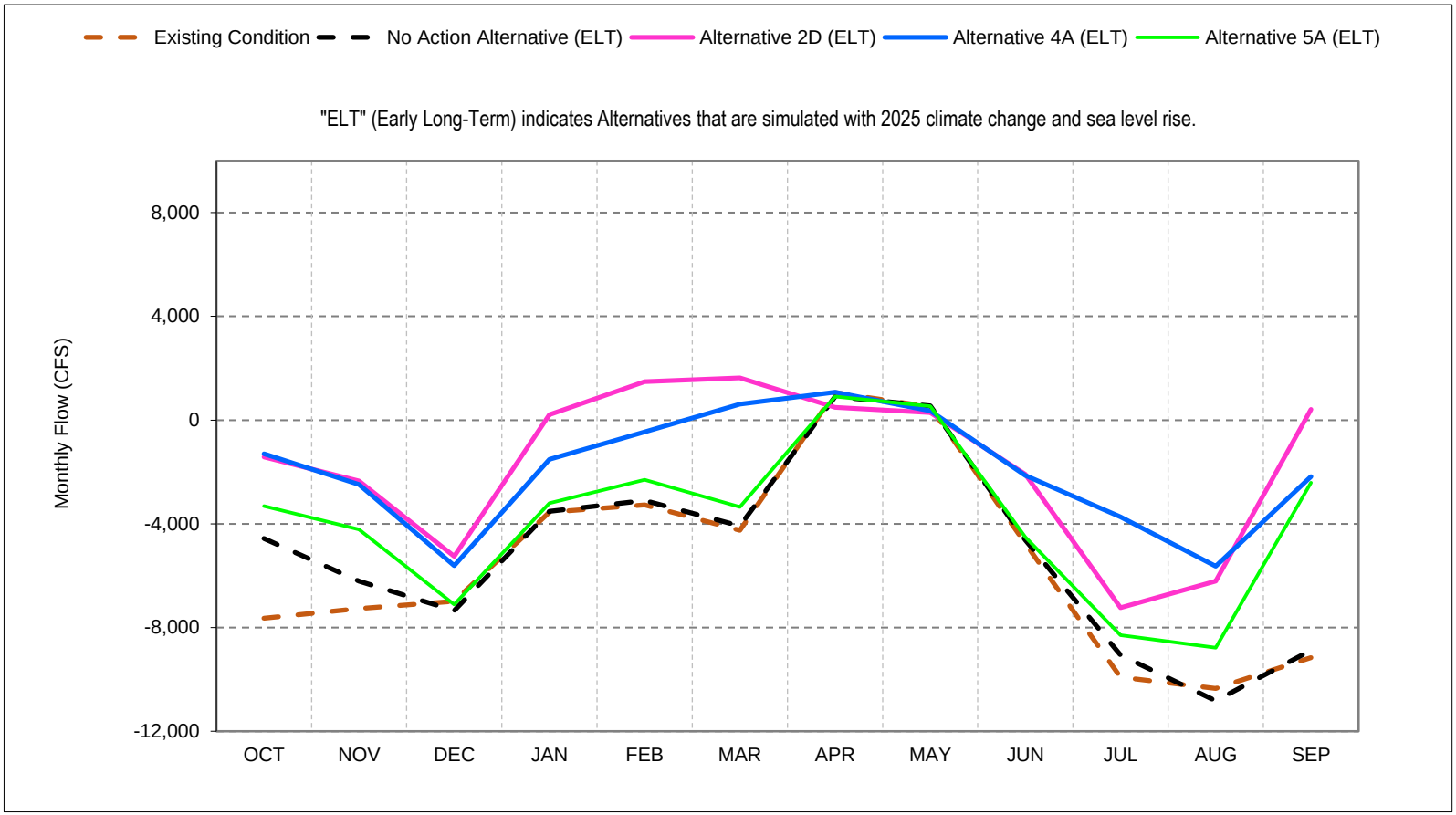


Figure C-48-1. Old and Middle River, Long-Term Average Flow



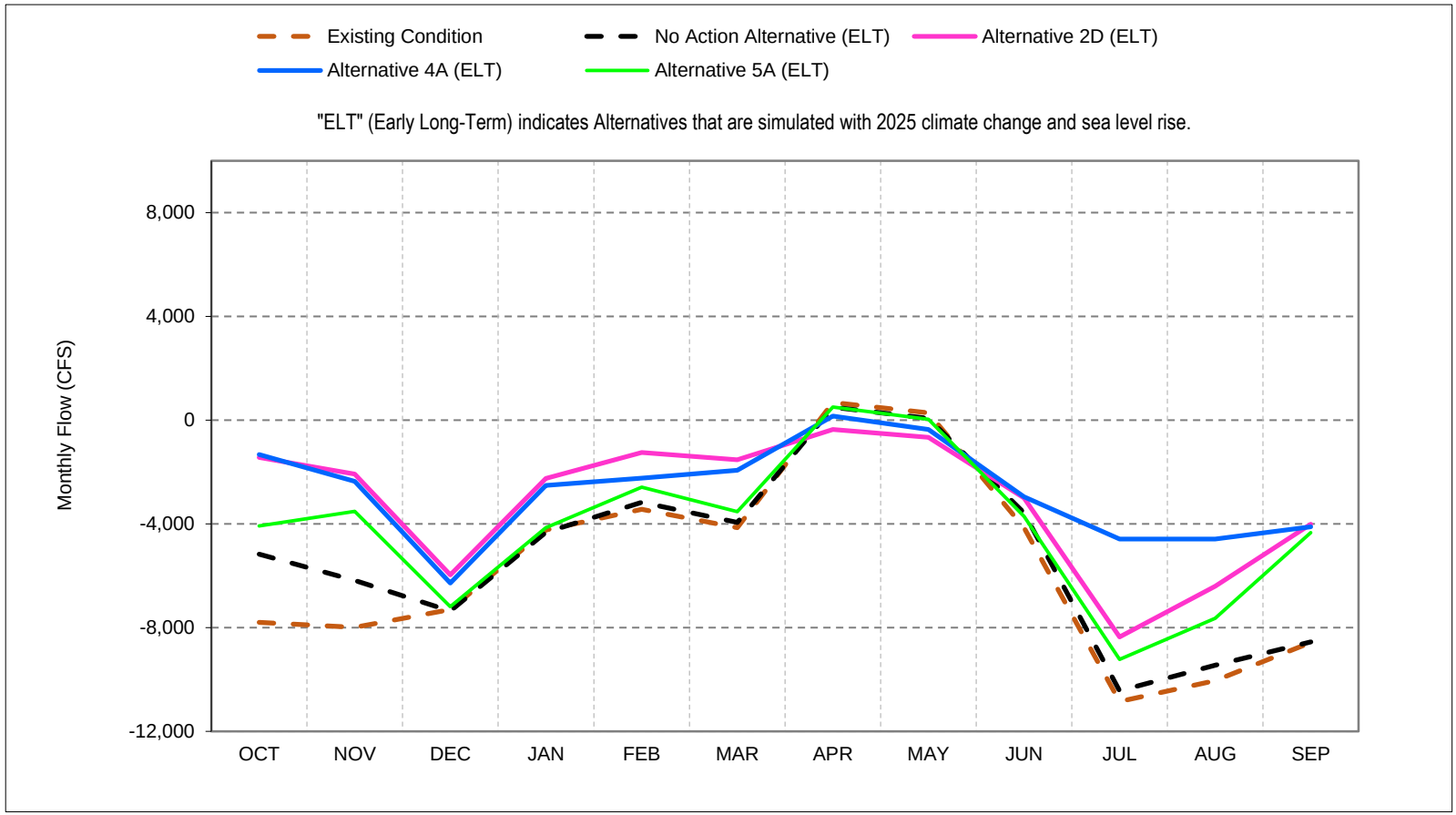
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-48-2. Old and Middle River, Wet Year* Average Flow



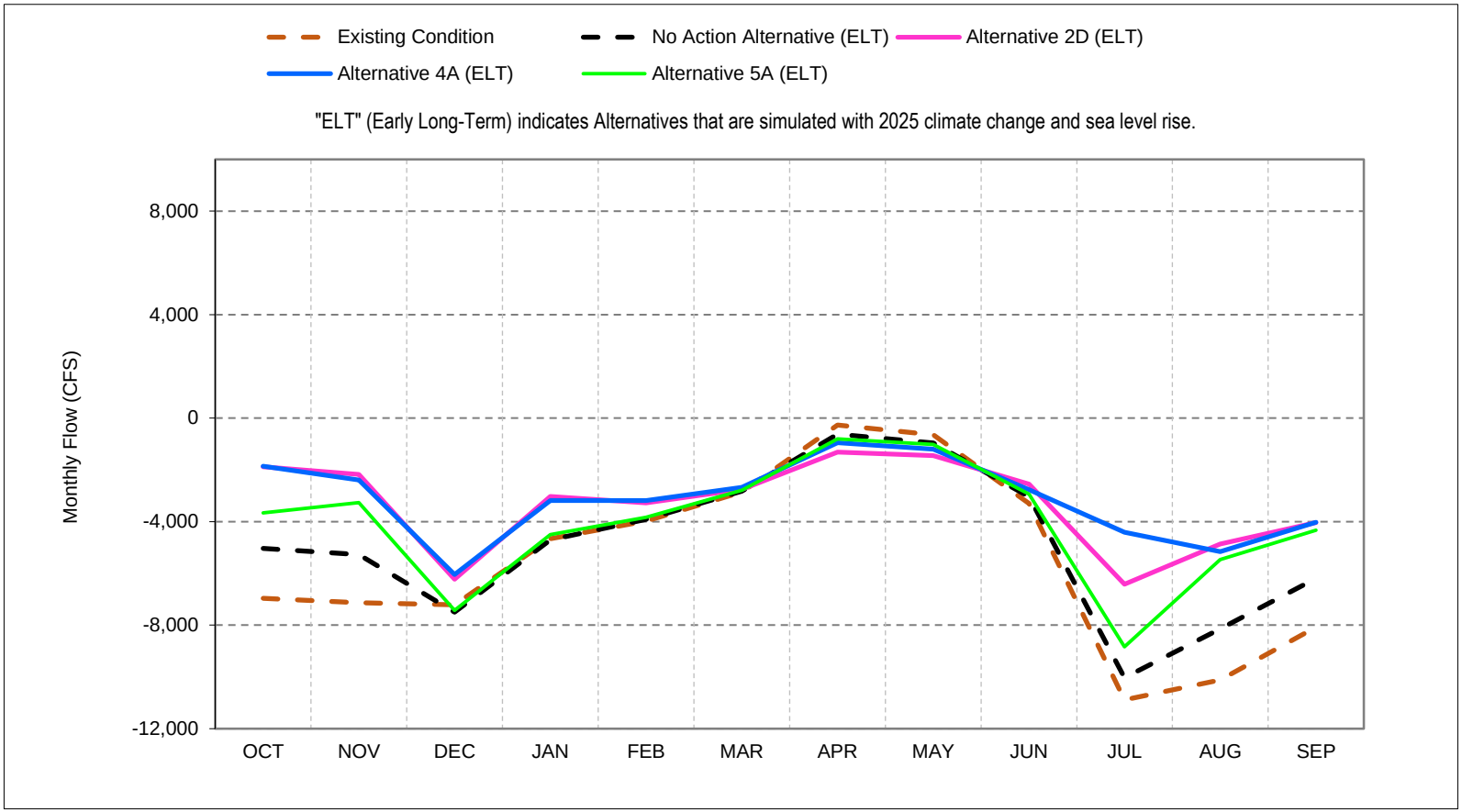
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-48-3. Old and Middle River, Above Normal Year* Average Flow



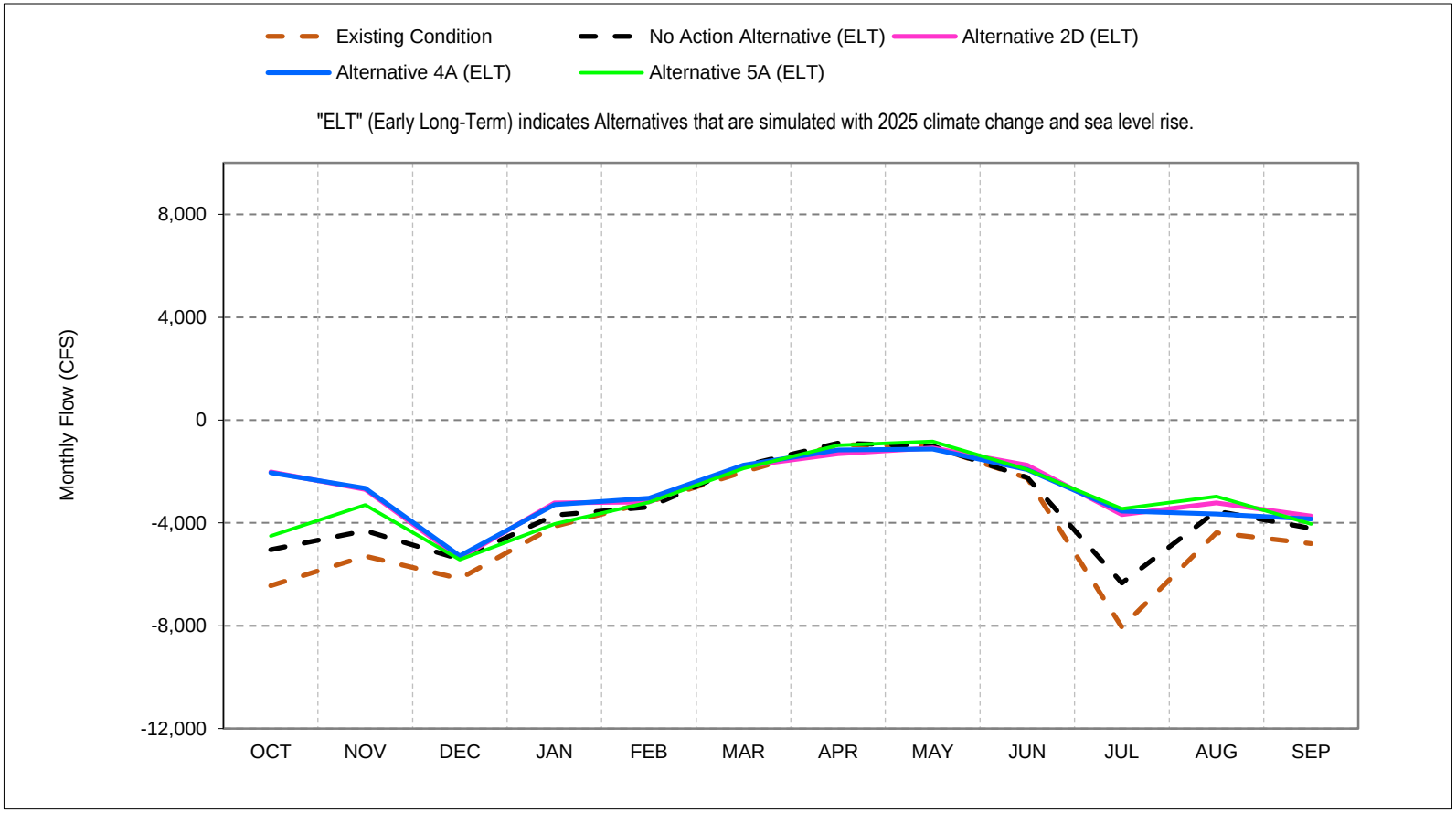
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-48-4. Old and Middle River, Below Normal Year* Average Flow



*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-48-5. Old and Middle River, Dry Year* Average Flow



*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-48-6. Old and Middle River, Critical Year* Average Flow

Table C-48-1. Old and Middle River, Monthly Flow (combined flows)

Existing Condition

Statistic	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-4,618	-4,270	-4,565	-2,655	-762	-363	2,971	2,074	-1,975	-6,617	-4,549	-4,506
20%	-5,648	-5,724	-5,732	-2,823	-2,364	-1,502	1,699	1,007	-2,352	-8,794	-7,783	-7,161
30%	-6,484	-6,315	-5,871	-3,355	-2,822	-2,093	1,431	682	-3,500	-9,467	-9,742	-8,126
40%	-7,003	-7,247	-5,871	-3,355	-3,500	-3,500	1,053	491	-3,500	-10,209	-10,283	-8,443
50%	-8,028	-8,161	-5,871	-4,710	-4,181	-3,680	663	67	-3,580	-10,681	-10,406	-8,898
60%	-8,607	-8,772	-6,901	-4,851	-4,912	-4,556	172	-190	-4,980	-10,971	-10,594	-9,188
70%	-9,200	-9,620	-7,822	-5,000	-5,000	-5,000	-208	-465	-5,000	-11,120	-10,760	-9,559
80%	-9,696	-9,809	-8,913	-5,000	-5,000	-5,000	-403	-690	-5,000	-11,187	-10,846	-9,742
90%	-9,984	-9,896	-9,357	-5,000	-5,000	-5,000	-1,005	-1,150	-5,000	-11,274	-10,975	-9,912
Long Term												
Full Simulation Period[a]	-7,568	-7,592	-6,513	-3,449	-3,158	-2,758	843	353	-3,780	-9,715	-9,283	-8,236
Water Year Types[b]												
Wet (32%)	-8,347	-8,902	-5,542	-1,820	-2,365	-1,600	2,431	1,651	-4,164	-8,959	-10,062	-9,317
Above Normal (15%)	-7,643	-7,264	-6,987	-3,553	-3,274	-4,251	1,058	509	-4,761	-9,919	-10,348	-9,163
Below Normal (17%)	-7,804	-7,997	-7,304	-4,240	-3,437	-4,147	677	272	-4,154	-10,853	-10,044	-8,575
Dry (22%)	-6,961	-7,136	-7,214	-4,664	-3,986	-2,852	-268	-647	-3,301	-10,891	-10,122	-8,081
Critical (15%)	-6,440	-5,294	-6,166	-4,130	-3,191	-2,010	-950	-1,020	-2,250	-8,058	-4,384	-4,807

No Action Alternative (ELT)

Statistic	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-3,561	-4,024	-3,737	-2,107	-494	-638	3,103	2,453	-2,028	-6,100	-2,528	-3,927
20%	-4,043	-4,211	-5,834	-2,823	-2,350	-1,364	1,783	1,236	-2,309	-7,690	-7,356	-4,344
30%	-4,381	-4,649	-5,871	-3,355	-2,822	-2,823	1,396	614	-3,156	-8,512	-8,035	-6,121
40%	-4,782	-5,045	-5,871	-3,355	-3,500	-3,500	930	356	-3,500	-9,301	-10,050	-7,572
50%	-5,192	-5,225	-5,871	-4,710	-3,815	-3,500	657	80	-3,500	-9,759	-10,410	-8,200
60%	-5,469	-6,018	-7,108	-4,795	-4,924	-4,252	-161	-465	-3,837	-10,218	-10,714	-8,546
70%	-5,694	-6,867	-8,400	-5,000	-5,000	-5,000	-478	-690	-5,000	-10,666	-10,871	-9,084
80%	-6,128	-7,863	-8,912	-5,000	-5,000	-5,000	-807	-1,134	-5,000	-10,959	-11,079	-9,681
90%	-7,069	-9,149	-9,504	-5,000	-5,000	-5,000	-1,150	-1,368	-5,000	-11,270	-11,166	-10,005
Long Term												
Full Simulation Period[a]	-5,236	-5,968	-6,483	-3,390	-3,023	-2,667	714	267	-3,635	-9,116	-8,851	-7,419
Water Year Types[b]												
Wet (32%)	-5,818	-6,986	-5,404	-1,776	-2,120	-1,634	2,410	1,685	-4,272	-9,078	-10,556	-8,459
Above Normal (15%)	-4,560	-6,215	-7,345	-3,517	-3,106	-4,078	905	549	-4,618	-9,054	-10,825	-8,880
Below Normal (17%)	-5,169	-6,183	-7,369	-4,326	-3,172	-3,945	496	68	-3,578	-10,442	-9,453	-8,551
Dry (22%)	-5,031	-5,273	-7,499	-4,705	-3,918	-2,823	-622	-962	-3,038	-10,034	-8,144	-6,199
Critical (15%)	-5,037	-4,306	-5,405	-3,699	-3,377	-1,770	-892	-1,012	-2,234	-6,337	-3,543	-4,212

No Action Alternative (ELT) minus Existing Condition

Statistic	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,056	246	828	548	268	**-275**	131	379	**-53**	518	2,022	579
20%	1,604	1,514	**-102**	0	14	138	84	229	43	1,104	427	2,816
30%	2,103	1,666	0	0	0	**-730**	**-35**	**-68**	344	955	1,707	2,004
40%	2,221	2,202	0	0	0	0	**-123**	**-134**	0	908	233	871
50%	2,836	2,935	0	0	365	180	**-6**	13	80	922	**-4**	698
60%	3,138	2,754	**-207**	57	**-12**	304	**-333**	**-274**	1,143	753	**-120**	643
70%	3,506	2,753	**-577**	0	0	0	**-270**	**-225**	0	453	**-111**	474
80%	3,568	1,946	0	0	0	0	**-405**	**-444**	0	229	**-233**	61
90%	2,914	747	**-147**	0	0	0	**-145**	**-218**	0	5	**-191**	**-94**
Long Term												
Full Simulation Period[a]	2,332	1,625	29	58	135	91	**-129**	**-86**	145	599	432	818
Water Year Types[b]												
Wet (32%)	2,529	1,917	138	44	245	**-33**	**-21**	34	**-108**	**-119**	**-493**	857
Above Normal (15%)	3,083	1,049	**-358**	36	168	173	**-153**	40	143	865	**-477**	283
Below Normal (17%)	2,635	1,814	**-65**	**-86**	265	202	**-180**	**-203**	577	410	591	24
Dry (22%)	1,929	1,864	**-285**	**-41**	68	29	**-354**	**-315**	262	857	1,979	1,882
Critical (15%)	1,403	987	761	430	**-186**	241	58	8	16	1,721	842	595

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-48-2. Old and Middle River, Monthly Flow (combined flows)

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-4,618	-4,270	-4,565	-2,655	-762	-363	2,971	2,074	-1,975	-6,617	-4,549	-4,506
20%	-5,648	-5,724	-5,732	-2,823	-2,364	-1,502	1,699	1,007	-2,352	-8,794	-7,783	-7,161
30%	-6,484	-6,315	-5,871	-3,355	-2,822	-2,093	1,431	682	-3,500	-9,467	-9,742	-8,126
40%	-7,003	-7,247	-5,871	-3,355	-3,500	-3,500	1,053	491	-3,500	-10,209	-10,283	-8,443
50%	-8,028	-8,161	-5,871	-4,710	-4,181	-3,680	663	67	-3,580	-10,681	-10,406	-8,898
60%	-8,607	-8,772	-6,901	-4,851	-4,912	-4,556	172	-190	-4,980	-10,971	-10,594	-9,188
70%	-9,200	-9,620	-7,822	-5,000	-5,000	-5,000	-208	-465	-5,000	-11,120	-10,760	-9,559
80%	-9,696	-9,809	-8,913	-5,000	-5,000	-5,000	-403	-690	-5,000	-11,187	-10,846	-9,742
90%	-9,984	-9,896	-9,357	-5,000	-5,000	-5,000	-1,005	-1,150	-5,000	-11,274	-10,975	-9,912
Long Term												
Full Simulation Period[a]	-7,568	-7,592	-6,513	-3,449	-3,158	-2,758	843	353	-3,780	-9,715	-9,283	-8,236
Water Year Types[b]												
Wet (32%)	-8,347	-8,902	-5,542	-1,820	-2,365	-1,600	2,431	1,651	-4,164	-8,959	-10,062	-9,317
Above Normal (15%)	-7,643	-7,264	-6,987	-3,553	-3,274	-4,251	1,058	509	-4,761	-9,919	-10,348	-9,163
Below Normal (17%)	-7,804	-7,997	-7,304	-4,240	-3,437	-4,147	677	272	-4,154	-10,853	-10,044	-8,575
Dry (22%)	-6,961	-7,136	-7,214	-4,664	-3,986	-2,852	-268	-647	-3,301	-10,891	-10,122	-8,081
Critical (15%)	-6,440	-5,294	-6,166	-4,130	-3,191	-2,010	-950	-1,020	-2,250	-8,058	-4,384	-4,807

Alternative 2D (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	65	1,035	-919	6,228	8,075	7,742	3,517	3,299	0	-2,302	-2,848	939
20%	-416	852	-3,324	1,408	2,681	2,425	1,682	773	-602	-3,179	-3,385	709
30%	-1,046	682	-4,137	-20	1,725	1,652	431	60	-1,398	-4,106	-3,835	605
40%	-2,024	-391	-5,076	-675	0	215	240	-59	-2,097	-4,651	-4,063	312
50%	-2,090	-3,537	-5,339	-868	-1,309	-788	102	-175	-2,330	-6,176	-4,576	-3,432
60%	-2,145	-3,809	-5,486	-2,823	-2,491	-1,213	-273	-813	-2,671	-7,471	-4,932	-3,846
70%	-2,203	-3,995	-6,365	-3,355	-2,923	-2,583	-1,150	-1,128	-3,500	-8,773	-5,529	-3,944
80%	-2,235	-4,279	-7,743	-3,500	-3,944	-3,217	-1,757	-1,256	-3,500	-9,852	-6,581	-4,076
90%	-2,321	-5,000	-8,000	-5,000	-4,000	-3,500	-2,000	-2,000	-3,500	-11,332	-9,272	-4,312
Long Term												
Full Simulation Period[a]	-1,528	-1,870	-4,486	-188	708	1,002	512	388	-1,646	-6,438	-5,216	-1,777
Water Year Types[b]												
Wet (32%)	-1,154	-933	-1,715	4,100	5,962	5,974	3,102	2,956	-34	-6,322	-5,278	882
Above Normal (15%)	-1,419	-2,352	-5,255	213	1,477	1,624	491	288	-2,084	-7,230	-6,208	415
Below Normal (17%)	-1,445	-2,087	-5,976	-2,249	-1,254	-1,527	-364	-672	-3,008	-8,361	-6,410	-4,015
Dry (22%)	-1,877	-2,179	-6,227	-3,025	-3,272	-2,759	-1,316	-1,451	-2,556	-6,424	-4,869	-4,039
Critical (15%)	-2,018	-2,698	-5,374	-3,221	-3,182	-1,800	-1,312	-1,078	-1,748	-3,676	-3,215	-3,727

Alternative 2D (ELT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,682	5,305	3,646	8,883	8,837	8,105	546	1,225	1,975	4,315	1,701	5,445
20%	5,231	6,576	2,408	4,230	5,046	3,927	**-17**	**-234**	1,750	5,615	4,397	7,870
30%	5,438	6,997	1,734	3,334	4,547	3,745	**-1,000**	**-623**	2,102	5,361	5,907	8,730
40%	4,979	6,856	795	2,680	3,500	3,715	**-813**	**-549**	1,403	5,558	6,220	8,754
50%	5,938	4,624	532	3,842	2,872	2,891	**-561**	**-243**	1,250	4,505	5,829	5,465
60%	6,462	4,963	1,415	2,029	2,421	3,342	**-445**	**-622**	2,309	3,500	5,662	5,342
70%	6,996	5,625	1,458	1,645	2,077	2,417	**-943**	**-663**	1,500	2,346	5,231	5,615
80%	7,461	5,530	1,170	1,500	1,056	1,783	**-1,354**	**-566**	1,500	1,335	4,265	5,666
90%	7,663	4,896	1,357	0	1,000	1,500	**-995**	**-850**	1,500	**-58**	1,703	5,600
Long Term												
Full Simulation Period[a]	6,040	5,723	2,026	3,260	3,866	3,760	**-331**	35	2,134	3,277	4,068	6,459
Water Year Types[b]												
Wet (32%)	7,193	7,969	3,827	5,919	8,327	7,574	671	1,305	4,130	2,637	4,784	10,199
Above Normal (15%)	6,224	4,912	1,733	3,766	4,752	5,875	**-567**	**-221**	2,677	2,689	4,140	9,578
Below Normal (17%)	6,359	5,909	1,328	1,991	2,183	2,620	**-1,041**	**-944**	1,147	2,492	3,634	4,560
Dry (22%)	5,083	4,957	987	1,639	713	93	**-1,048**	**-804**	745	4,467	5,253	4,042
Critical (15%)	4,422	2,595	792	909	10	210	**-362**	**-58**	502	4,382	1,169	1,080

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-48-3. Old and Middle River, Monthly Flow (combined flows)

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-4,618	-4,270	-4,565	-2,655	-762	-363	2,971	2,074	-1,975	-6,617	-4,549	-4,506
20%	-5,648	-5,724	-5,732	-2,823	-2,364	-1,502	1,699	1,007	-2,352	-8,794	-7,783	-7,161
30%	-6,484	-6,315	-5,871	-3,355	-2,822	-2,093	1,431	682	-3,500	-9,467	-9,742	-8,126
40%	-7,003	-7,247	-5,871	-3,355	-3,500	-3,500	1,053	491	-3,500	-10,209	-10,283	-8,443
50%	-8,028	-8,161	-5,871	-4,710	-4,181	-3,680	663	67	-3,580	-10,681	-10,406	-8,898
60%	-8,607	-8,772	-6,901	-4,851	-4,912	-4,556	172	-190	-4,980	-10,971	-10,594	-9,188
70%	-9,200	-9,620	-7,822	-5,000	-5,000	-5,000	-208	-465	-5,000	-11,120	-10,760	-9,559
80%	-9,696	-9,809	-8,913	-5,000	-5,000	-5,000	-403	-690	-5,000	-11,187	-10,846	-9,742
90%	-9,984	-9,896	-9,357	-5,000	-5,000	-5,000	-1,005	-1,150	-5,000	-11,274	-10,975	-9,912
Long Term												
Full Simulation Period[a]	-7,568	-7,592	-6,513	-3,449	-3,158	-2,758	843	353	-3,780	-9,715	-9,283	-8,236
Water Year Types[b]												
Wet (32%)	-8,347	-8,902	-5,542	-1,820	-2,365	-1,600	2,431	1,651	-4,164	-8,959	-10,062	-9,317
Above Normal (15%)	-7,643	-7,264	-6,987	-3,553	-3,274	-4,251	1,058	509	-4,761	-9,919	-10,348	-9,163
Below Normal (17%)	-7,804	-7,997	-7,304	-4,240	-3,437	-4,147	677	272	-4,154	-10,853	-10,044	-8,575
Dry (22%)	-6,961	-7,136	-7,214	-4,664	-3,986	-2,852	-268	-647	-3,301	-10,891	-10,122	-8,081
Critical (15%)	-6,440	-5,294	-6,166	-4,130	-3,191	-2,010	-950	-1,020	-2,250	-8,058	-4,384	-4,807

Alternative 4A (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-18	980	-3,348	1,296	4,266	5,387	3,523	3,342	0	-2,821	-3,422	-1,748
20%	-516	812	-4,032	-157	145	1,546	2,041	890	-603	-3,875	-3,920	-2,029
30%	-1,325	509	-4,282	-713	-199	0	1,475	611	-1,425	-4,022	-4,295	-2,221
40%	-1,992	-1,683	-5,097	-1,680	-838	-235	825	3	-2,101	-4,242	-4,629	-2,366
50%	-2,095	-3,586	-5,339	-2,823	-2,250	-911	179	-158	-2,373	-4,424	-5,089	-3,712
60%	-2,161	-3,864	-5,484	-3,355	-2,869	-1,288	-227	-532	-3,500	-4,636	-5,546	-3,864
70%	-2,204	-4,063	-6,340	-3,500	-3,500	-2,583	-841	-1,106	-3,500	-4,787	-5,741	-3,961
80%	-2,239	-4,543	-7,737	-3,611	-3,940	-3,400	-1,150	-1,185	-3,500	-5,110	-6,069	-4,050
90%	-2,336	-5,000	-7,987	-5,000	-4,000	-3,500	-1,346	-1,541	-3,500	-5,428	-6,621	-4,313
Long Term												
Full Simulation Period[a]	-1,581	-2,201	-4,964	-1,296	-444	435	840	407	-1,962	-4,296	-5,004	-3,089
Water Year Types[b]												
Wet (32%)	-1,437	-1,643	-3,057	1,694	3,628	4,788	3,263	2,663	-806	-4,668	-5,450	-1,962
Above Normal (15%)	-1,303	-2,482	-5,608	-1,515	-456	613	1,074	359	-2,135	-3,731	-5,635	-2,181
Below Normal (17%)	-1,329	-2,366	-6,290	-2,524	-2,241	-1,935	154	-359	-2,959	-4,586	-4,592	-4,111
Dry (22%)	-1,858	-2,393	-6,044	-3,184	-3,191	-2,671	-947	-1,200	-2,765	-4,410	-5,159	-4,025
Critical (15%)	-2,050	-2,651	-5,283	-3,288	-3,035	-1,748	-1,164	-1,131	-1,925	-3,541	-3,653	-3,842

Alternative 4A (ELT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,599	5,250	1,217	3,950	5,028	5,750	552	1,268	1,975	3,796	1,127	2,758
20%	5,131	6,537	1,700	2,666	2,509	3,048	343	**-117**	1,749	4,919	3,863	5,132
30%	5,159	6,824	1,589	2,641	2,623	2,093	44	**-72**	2,075	5,445	5,448	5,905
40%	5,011	5,565	774	1,675	2,662	3,265	**-228**	**-487**	1,399	5,967	5,654	6,077
50%	5,933	4,575	532	1,887	1,930	2,769	**-485**	**-225**	1,207	6,257	5,317	5,186
60%	6,446	4,907	1,417	1,497	2,043	3,268	**-399**	**-341**	1,480	6,336	5,048	5,324
70%	6,996	5,557	1,482	1,500	1,500	2,417	**-633**	**-640**	1,500	6,333	5,019	5,597
80%	7,457	5,265	1,175	1,389	1,060	1,600	**-748**	**-495**	1,500	6,077	4,777	5,692
90%	7,648	4,896	1,370	0	1,000	1,500	**-341**	**-391**	1,500	5,847	4,354	5,599
Long Term												
Full Simulation Period[a]	5,987	5,391	1,549	2,153	2,714	3,193	**-4**	53	1,818	5,419	4,280	5,148
Water Year Types[b]												
Wet (32%)	6,909	7,259	2,485	3,514	5,993	6,388	832	1,012	3,358	4,290	4,613	7,355
Above Normal (15%)	6,340	4,782	1,379	2,038	2,819	4,864	16	**-150**	2,626	6,188	4,713	6,982
Below Normal (17%)	6,475	5,630	1,014	1,716	1,196	2,212	**-523**	**-630**	1,195	6,267	5,453	4,464
Dry (22%)	5,102	4,744	1,170	1,480	794	181	**-679**	**-554**	536	6,481	4,963	4,057
Critical (15%)	4,390	2,643	883	841	156	262	**-214**	**-112**	325	4,517	732	965

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-48-4. Old and Middle River, Monthly Flow (combined flows)

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-4,618	-4,270	-4,565	-2,655	-762	-363	2,971	2,074	-1,975	-6,617	-4,549	-4,506
20%	-5,648	-5,724	-5,732	-2,823	-2,364	-1,502	1,699	1,007	-2,352	-8,794	-7,783	-7,161
30%	-6,484	-6,315	-5,871	-3,355	-2,822	-2,093	1,431	682	-3,500	-9,467	-9,742	-8,126
40%	-7,003	-7,247	-5,871	-3,355	-3,500	-3,500	1,053	491	-3,500	-10,209	-10,283	-8,443
50%	-8,028	-8,161	-5,871	-4,710	-4,181	-3,680	663	67	-3,580	-10,681	-10,406	-8,898
60%	-8,607	-8,772	-6,901	-4,851	-4,912	-4,556	172	-190	-4,980	-10,971	-10,594	-9,188
70%	-9,200	-9,620	-7,822	-5,000	-5,000	-5,000	-208	-465	-5,000	-11,120	-10,760	-9,559
80%	-9,696	-9,809	-8,913	-5,000	-5,000	-5,000	-403	-690	-5,000	-11,187	-10,846	-9,742
90%	-9,984	-9,896	-9,357	-5,000	-5,000	-5,000	-1,005	-1,150	-5,000	-11,274	-10,975	-9,912
Long Term												
Full Simulation Period[a]	-7,568	-7,592	-6,513	-3,449	-3,158	-2,758	843	353	-3,780	-9,715	-9,283	-8,236
Water Year Types[b]												
Wet (32%)	-8,347	-8,902	-5,542	-1,820	-2,365	-1,600	2,431	1,651	-4,164	-8,959	-10,062	-9,317
Above Normal (15%)	-7,643	-7,264	-6,987	-3,553	-3,274	-4,251	1,058	509	-4,761	-9,919	-10,348	-9,163
Below Normal (17%)	-7,804	-7,997	-7,304	-4,240	-3,437	-4,147	677	272	-4,154	-10,853	-10,044	-8,575
Dry (22%)	-6,961	-7,136	-7,214	-4,664	-3,986	-2,852	-268	-647	-3,301	-10,891	-10,122	-8,081
Critical (15%)	-6,440	-5,294	-6,166	-4,130	-3,191	-2,010	-950	-1,020	-2,250	-8,058	-4,384	-4,807

Alternative 5A (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,080	365	-3,686	-1,254	309	-303	3,103	2,856	-1,767	-2,426	-2,724	248
20%	-1,821	263	-5,093	-2,823	-1,423	-1,351	1,793	1,291	-2,140	-5,769	-3,452	-504
30%	-2,828	-869	-5,871	-3,355	-2,489	-2,031	1,375	614	-3,500	-6,765	-4,422	-2,157
40%	-3,466	-3,481	-5,871	-3,355	-2,776	-2,823	930	357	-3,500	-7,743	-5,212	-3,876
50%	-4,124	-4,024	-5,871	-4,710	-3,500	-3,216	654	80	-3,500	-8,284	-6,287	-4,126
60%	-4,746	-4,512	-7,013	-4,710	-3,586	-3,500	-214	-436	-3,500	-9,215	-8,111	-4,275
70%	-5,382	-4,942	-8,306	-5,000	-4,186	-4,065	-462	-618	-4,987	-9,642	-8,910	-4,390
80%	-5,675	-6,003	-9,067	-5,000	-5,000	-4,674	-1,082	-811	-5,000	-10,531	-10,229	-4,588
90%	-5,890	-8,299	-9,453	-5,000	-5,000	-5,000	-1,310	-1,208	-5,000	-11,029	-10,926	-5,048
Long Term												
Full Simulation Period[a]	-3,916	-3,729	-6,289	-3,135	-2,327	-2,068	681	363	-3,517	-7,790	-6,685	-3,253
Water Year Types[b]												
Wet (32%)	-4,006	-4,134	-5,026	-1,190	-758	-275	2,465	1,969	-4,091	-8,062	-7,765	-1,936
Above Normal (15%)	-3,312	-4,220	-7,109	-3,199	-2,297	-3,347	904	535	-4,506	-8,292	-8,773	-2,419
Below Normal (17%)	-4,084	-3,522	-7,196	-4,153	-2,593	-3,532	502	34	-3,714	-9,234	-7,645	-4,347
Dry (22%)	-3,662	-3,265	-7,437	-4,506	-3,828	-2,793	-798	-1,023	-2,938	-8,833	-5,464	-4,338
Critical (15%)	-4,508	-3,295	-5,426	-4,039	-3,193	-1,879	-979	-826	-1,923	-3,451	-2,968	-4,036

Alternative 5A (ELT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,537	4,635	879	1,401	1,071	60	132	782	208	4,191	1,825	4,754
20%	3,826	5,987	640	0	942	151	94	285	212	3,025	4,331	6,656
30%	3,656	5,445	0	**0**	334	62	**-55**	**-68**	0	2,702	5,320	5,968
40%	3,538	3,766	0	0	724	677	**-123**	**-134**	0	2,466	5,071	4,566
50%	3,904	4,137	0	0	681	464	**-9**	13	80	2,397	4,118	4,772
60%	3,861	4,260	**-112**	142	1,326	1,056	**-387**	**-246**	1,480	1,756	2,483	4,914
70%	3,818	4,678	**-484**	0	814	935	**-254**	**-153**	13	1,477	1,850	5,169
80%	4,021	3,806	**-154**	0	0	326	**-679**	**-121**	0	656	617	5,154
90%	4,094	1,597	**-97**	0	0	0	**-305**	**-57**	0	245	49	4,864
Long Term												
Full Simulation Period[a]	3,652	3,863	223	314	831	690	**-162**	10	263	1,925	2,599	4,984
Water Year Types[b]												
Wet (32%)	4,341	4,768	516	630	1,607	1,326	34	318	73	897	2,297	7,381
Above Normal (15%)	4,331	3,044	**-122**	354	977	904	**-155**	26	255	1,627	1,576	6,744
Below Normal (17%)	3,720	4,475	108	87	844	614	**-175**	**-237**	441	1,619	2,399	4,229
Dry (22%)	3,299	3,871	**-223**	157	157	59	**-530**	**-376**	363	2,057	4,659	3,743
Critical (15%)	1,932	1,999	740	90	**-2**	131	**-28**	194	326	4,607	1,417	771

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-48-5. Old and Middle River, Monthly Flow

No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-3,561	-4,024	-3,737	-2,107	-494	-638	3,103	2,453	-2,028	-6,100	-2,528	-3,927
20%	-4,043	-4,211	-5,834	-2,823	-2,350	-1,364	1,783	1,236	-2,309	-7,690	-7,356	-4,344
30%	-4,381	-4,649	-5,871	-3,355	-2,822	-2,823	1,396	614	-3,156	-8,512	-8,035	-6,121
40%	-4,782	-5,045	-5,871	-3,355	-3,500	-3,500	930	356	-3,500	-9,301	-10,050	-7,572
50%	-5,192	-5,225	-5,871	-4,710	-3,815	-3,500	657	80	-3,500	-9,759	-10,410	-8,200
60%	-5,469	-6,018	-7,108	-4,795	-4,924	-4,252	-161	-465	-3,837	-10,218	-10,714	-8,546
70%	-5,694	-6,867	-8,400	-5,000	-5,000	-5,000	-478	-690	-5,000	-10,666	-10,871	-9,084
80%	-6,128	-7,863	-8,912	-5,000	-5,000	-5,000	-807	-1,134	-5,000	-10,959	-11,079	-9,681
90%	-7,069	-9,149	-9,504	-5,000	-5,000	-5,000	-1,150	-1,368	-5,000	-11,270	-11,166	-10,005
Long Term												
Full Simulation Period[a]	-5,236	-5,968	-6,483	-3,390	-3,023	-2,667	714	267	-3,635	-9,116	-8,851	-7,419
Water Year Types[b]												
Wet (32%)	-5,818	-6,986	-5,404	-1,776	-2,120	-1,634	2,410	1,685	-4,272	-9,078	-10,556	-8,459
Above Normal (15%)	-4,560	-6,215	-7,345	-3,517	-3,106	-4,078	905	549	-4,618	-9,054	-10,825	-8,880
Below Normal (17%)	-5,169	-6,183	-7,369	-4,326	-3,172	-3,945	496	68	-3,578	-10,442	-9,453	-8,551
Dry (22%)	-5,031	-5,273	-7,499	-4,705	-3,918	-2,823	-622	-962	-3,038	-10,034	-8,144	-6,199
Critical (15%)	-5,037	-4,306	-5,405	-3,699	-3,377	-1,770	-892	-1,012	-2,234	-6,337	-3,543	-4,212

Alternative 2D (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	65	1,035	-919	6,228	8,075	7,742	3,517	3,299	0	-2,302	-2,848	939
20%	-416	852	-3,324	1,408	2,681	2,425	1,682	773	-602	-3,179	-3,385	709
30%	-1,046	682	-4,137	-20	1,725	1,652	431	60	-1,398	-4,106	-3,835	605
40%	-2,024	-391	-5,076	-675	0	215	240	-59	-2,097	-4,651	-4,063	312
50%	-2,090	-3,537	-5,339	-868	-1,309	-788	102	-175	-2,330	-6,176	-4,576	-3,432
60%	-2,145	-3,809	-5,486	-2,823	-2,491	-1,213	-273	-813	-2,671	-7,471	-4,932	-3,846
70%	-2,203	-3,995	-6,365	-3,355	-2,923	-2,583	-1,150	-1,128	-3,500	-8,773	-5,529	-3,944
80%	-2,235	-4,279	-7,743	-3,500	-3,944	-3,217	-1,757	-1,256	-3,500	-9,852	-6,581	-4,076
90%	-2,321	-5,000	-8,000	-5,000	-4,000	-3,500	-2,000	-2,000	-3,500	-11,332	-9,272	-4,312
Long Term												
Full Simulation Period[a]	-1,528	-1,870	-4,486	-188	708	1,002	512	388	-1,646	-6,438	-5,216	-1,777
Water Year Types[b]												
Wet (32%)	-1,154	-933	-1,715	4,100	5,962	5,974	3,102	2,956	-34	-6,322	-5,278	882
Above Normal (15%)	-1,419	-2,352	-5,255	213	1,477	1,624	491	288	-2,084	-7,230	-6,208	415
Below Normal (17%)	-1,445	-2,087	-5,976	-2,249	-1,254	-1,527	-364	-672	-3,008	-8,361	-6,410	-4,015
Dry (22%)	-1,877	-2,179	-6,227	-3,025	-3,272	-2,759	-1,316	-1,451	-2,556	-6,424	-4,869	-4,039
Critical (15%)	-2,018	-2,698	-5,374	-3,221	-3,182	-1,800	-1,312	-1,078	-1,748	-3,676	-3,215	-3,727

Alternative 2D (ELT) minus No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,626	5,059	2,818	8,335	8,569	8,380	414	846	2,028	3,798	**-320**	4,866
20%	3,627	5,063	2,510	4,230	5,031	3,789	**-101**	**-463**	1,707	4,511	3,971	5,053
30%	3,335	5,331	1,734	3,334	4,547	4,475	**-965**	**-555**	1,758	4,406	4,200	6,726
40%	2,758	4,654	795	2,680	3,500	3,715	**-690**	**-415**	1,403	4,650	5,987	7,883
50%	3,102	1,688	532	3,842	2,507	2,712	**-555**	**-256**	1,170	3,583	5,834	4,768
60%	3,324	2,210	1,622	1,972	2,433	3,038	**-112**	**-348**	1,166	2,747	5,782	4,699
70%	3,491	2,873	2,035	1,645	2,077	2,417	**-672**	**-438**	1,500	1,893	5,342	5,141
80%	3,893	3,584	1,169	1,500	1,056	1,783	**-950**	**-122**	1,500	1,106	4,498	5,605
90%	4,748	4,149	1,504	0	1,000	1,500	**-850**	**-632**	1,500	**-62**	1,894	5,694
Long Term												
Full Simulation Period[a]	3,709	4,098	1,997	3,202	3,731	3,669	**-202**	121	1,989	2,678	3,636	5,642
Water Year Types[b]												
Wet (32%)	4,664	6,053	3,688	5,875	8,082	7,607	692	1,270	4,238	2,756	5,278	9,341
Above Normal (15%)	3,141	3,863	2,090	3,730	4,584	5,703	**-414**	**-261**	2,534	1,824	4,617	9,295
Below Normal (17%)	3,724	4,095	1,393	2,077	1,918	2,418	**-861**	**-740**	570	2,082	3,043	4,536
Dry (22%)	3,154	3,093	1,271	1,680	645	64	**-695**	**-489**	482	3,610	3,275	2,160
Critical (15%)	3,019	1,608	31	479	196	**-30**	**-420**	**-66**	487	2,661	328	485

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-48-6. Old and Middle River, Monthly Flow

No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-3,561	-4,024	-3,737	-2,107	-494	-638	3,103	2,453	-2,028	-6,100	-2,528	-3,927
20%	-4,043	-4,211	-5,834	-2,823	-2,350	-1,364	1,783	1,236	-2,309	-7,690	-7,356	-4,344
30%	-4,381	-4,649	-5,871	-3,355	-2,822	-2,823	1,396	614	-3,156	-8,512	-8,035	-6,121
40%	-4,782	-5,045	-5,871	-3,355	-3,500	-3,500	930	356	-3,500	-9,301	-10,050	-7,572
50%	-5,192	-5,225	-5,871	-4,710	-3,815	-3,500	657	80	-3,500	-9,759	-10,410	-8,200
60%	-5,469	-6,018	-7,108	-4,795	-4,924	-4,252	-161	-465	-3,837	-10,218	-10,714	-8,546
70%	-5,694	-6,867	-8,400	-5,000	-5,000	-5,000	-478	-690	-5,000	-10,666	-10,871	-9,084
80%	-6,128	-7,863	-8,912	-5,000	-5,000	-5,000	-807	-1,134	-5,000	-10,959	-11,079	-9,681
90%	-7,069	-9,149	-9,504	-5,000	-5,000	-5,000	-1,150	-1,368	-5,000	-11,270	-11,166	-10,005
Long Term												
Full Simulation Period[a]	-5,236	-5,968	-6,483	-3,390	-3,023	-2,667	714	267	-3,635	-9,116	-8,851	-7,419
Water Year Types[b]												
Wet (32%)	-5,818	-6,986	-5,404	-1,776	-2,120	-1,634	2,410	1,685	-4,272	-9,078	-10,556	-8,459
Above Normal (15%)	-4,560	-6,215	-7,345	-3,517	-3,106	-4,078	905	549	-4,618	-9,054	-10,825	-8,880
Below Normal (17%)	-5,169	-6,183	-7,369	-4,326	-3,172	-3,945	496	68	-3,578	-10,442	-9,453	-8,551
Dry (22%)	-5,031	-5,273	-7,499	-4,705	-3,918	-2,823	-622	-962	-3,038	-10,034	-8,144	-6,199
Critical (15%)	-5,037	-4,306	-5,405	-3,699	-3,377	-1,770	-892	-1,012	-2,234	-6,337	-3,543	-4,212

Alternative 4A (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-18	980	-3,348	1,296	4,266	5,387	3,523	3,342	0	-2,821	-3,422	-1,748
20%	-516	812	-4,032	-157	145	1,546	2,041	890	-603	-3,875	-3,920	-2,029
30%	-1,325	509	-4,282	-713	-199	0	1,475	611	-1,425	-4,022	-4,295	-2,221
40%	-1,992	-1,683	-5,097	-1,680	-838	-235	825	3	-2,101	-4,242	-4,629	-2,366
50%	-2,095	-3,586	-5,339	-2,823	-2,250	-911	179	-158	-2,373	-4,424	-5,089	-3,712
60%	-2,161	-3,864	-5,484	-3,355	-2,869	-1,288	-227	-532	-3,500	-4,636	-5,546	-3,864
70%	-2,204	-4,063	-6,340	-3,500	-3,500	-2,583	-841	-1,106	-3,500	-4,787	-5,741	-3,961
80%	-2,239	-4,543	-7,737	-3,611	-3,940	-3,400	-1,150	-1,185	-3,500	-5,110	-6,069	-4,050
90%	-2,336	-5,000	-7,987	-5,000	-4,000	-3,500	-1,346	-1,541	-3,500	-5,428	-6,621	-4,313
Long Term												
Full Simulation Period[a]	-1,581	-2,201	-4,964	-1,296	-444	435	840	407	-1,962	-4,296	-5,004	-3,089
Water Year Types[b]												
Wet (32%)	-1,437	-1,643	-3,057	1,694	3,628	4,788	3,263	2,663	-806	-4,668	-5,450	-1,962
Above Normal (15%)	-1,303	-2,482	-5,608	-1,515	-456	613	1,074	359	-2,135	-3,731	-5,635	-2,181
Below Normal (17%)	-1,329	-2,366	-6,290	-2,524	-2,241	-1,935	154	-359	-2,959	-4,586	-4,592	-4,111
Dry (22%)	-1,858	-2,393	-6,044	-3,184	-3,191	-2,671	-947	-1,200	-2,765	-4,410	-5,159	-4,025
Critical (15%)	-2,050	-2,651	-5,283	-3,288	-3,035	-1,748	-1,164	-1,131	-1,925	-3,541	-3,653	-3,842

Alternative 4A (ELT) minus No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,543	5,004	389	3,402	4,760	6,025	421	889	2,028	3,278	**-894**	2,179
20%	3,527	5,023	1,802	2,666	2,495	2,910	258	**-346**	1,706	3,815	3,436	2,316
30%	3,056	5,158	1,589	2,641	2,623	2,823	79	**-4**	1,731	4,490	3,740	3,900
40%	2,790	3,363	774	1,675	2,662	3,265	**-105**	**-353**	1,399	5,059	5,421	5,206
50%	3,097	1,639	532	1,887	1,565	2,589	**-478**	**-239**	1,127	5,335	5,321	4,488
60%	3,308	2,154	1,624	1,440	2,055	2,964	**-66**	**-67**	337	5,583	5,168	4,681
70%	3,490	2,805	2,060	1,500	1,500	2,417	**-363**	**-416**	1,500	5,880	5,130	5,123
80%	3,889	3,319	1,175	1,389	1,060	1,600	**-343**	**-51**	1,500	5,848	5,010	5,631
90%	4,734	4,149	1,517	0	1,000	1,500	**-196**	**-173**	1,500	5,842	4,546	5,692
Long Term												
Full Simulation Period[a]	3,655	3,766	1,520	2,095	2,579	3,102	126	140	1,673	4,820	3,848	4,330
Water Year Types[b]												
Wet (32%)	4,381	5,343	2,346	3,470	5,749	6,421	853	978	3,465	4,409	5,106	6,497
Above Normal (15%)	3,257	3,732	1,737	2,002	2,651	4,691	169	**-190**	2,483	5,323	5,190	6,699
Below Normal (17%)	3,841	3,816	1,079	1,802	930	2,010	**-343**	**-427**	618	5,856	4,862	4,440
Dry (22%)	3,173	2,880	1,455	1,521	726	152	**-325**	**-239**	273	5,624	2,985	2,175
Critical (15%)	2,987	1,656	122	411	343	22	**-272**	**-119**	309	2,796	**-110**	370

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-48-7. Old and Middle River, Monthly Flow

No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-3,561	-4,024	-3,737	-2,107	-494	-638	3,103	2,453	-2,028	-6,100	-2,528	-3,927
20%	-4,043	-4,211	-5,834	-2,823	-2,350	-1,364	1,783	1,236	-2,309	-7,690	-7,356	-4,344
30%	-4,381	-4,649	-5,871	-3,355	-2,822	-2,823	1,396	614	-3,156	-8,512	-8,035	-6,121
40%	-4,782	-5,045	-5,871	-3,355	-3,500	-3,500	930	356	-3,500	-9,301	-10,050	-7,572
50%	-5,192	-5,225	-5,871	-4,710	-3,815	-3,500	657	80	-3,500	-9,759	-10,410	-8,200
60%	-5,469	-6,018	-7,108	-4,795	-4,924	-4,252	-161	-465	-3,837	-10,218	-10,714	-8,546
70%	-5,694	-6,867	-8,400	-5,000	-5,000	-5,000	-478	-690	-5,000	-10,666	-10,871	-9,084
80%	-6,128	-7,863	-8,912	-5,000	-5,000	-5,000	-807	-1,134	-5,000	-10,959	-11,079	-9,681
90%	-7,069	-9,149	-9,504	-5,000	-5,000	-5,000	-1,150	-1,368	-5,000	-11,270	-11,166	-10,005
Long Term												
Full Simulation Period[a]	-5,236	-5,968	-6,483	-3,390	-3,023	-2,667	714	267	-3,635	-9,116	-8,851	-7,419
Water Year Types[b]												
Wet (32%)	-5,818	-6,986	-5,404	-1,776	-2,120	-1,634	2,410	1,685	-4,272	-9,078	-10,556	-8,459
Above Normal (15%)	-4,560	-6,215	-7,345	-3,517	-3,106	-4,078	905	549	-4,618	-9,054	-10,825	-8,880
Below Normal (17%)	-5,169	-6,183	-7,369	-4,326	-3,172	-3,945	496	68	-3,578	-10,442	-9,453	-8,551
Dry (22%)	-5,031	-5,273	-7,499	-4,705	-3,918	-2,823	-622	-962	-3,038	-10,034	-8,144	-6,199
Critical (15%)	-5,037	-4,306	-5,405	-3,699	-3,377	-1,770	-892	-1,012	-2,234	-6,337	-3,543	-4,212

Alternative 5A (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,080	365	-3,686	-1,254	309	-303	3,103	2,856	-1,767	-2,426	-2,724	248
20%	-1,821	263	-5,093	-2,823	-1,423	-1,351	1,793	1,291	-2,140	-5,769	-3,452	-504
30%	-2,828	-869	-5,871	-3,355	-2,489	-2,031	1,375	614	-3,500	-6,765	-4,422	-2,157
40%	-3,466	-3,481	-5,871	-3,355	-2,776	-2,823	930	357	-3,500	-7,743	-5,212	-3,876
50%	-4,124	-4,024	-5,871	-4,710	-3,500	-3,216	654	80	-3,500	-8,284	-6,287	-4,126
60%	-4,746	-4,512	-7,013	-4,710	-3,586	-3,500	-214	-436	-3,500	-9,215	-8,111	-4,275
70%	-5,382	-4,942	-8,306	-5,000	-4,186	-4,065	-462	-618	-4,987	-9,642	-8,910	-4,390
80%	-5,675	-6,003	-9,067	-5,000	-5,000	-4,674	-1,082	-811	-5,000	-10,531	-10,229	-4,588
90%	-5,890	-8,299	-9,453	-5,000	-5,000	-5,000	-1,310	-1,208	-5,000	-11,029	-10,926	-5,048
Long Term												
Full Simulation Period[a]	-3,916	-3,729	-6,289	-3,135	-2,327	-2,068	681	363	-3,517	-7,790	-6,685	-3,253
Water Year Types[b]												
Wet (32%)	-4,006	-4,134	-5,026	-1,190	-758	-275	2,465	1,969	-4,091	-8,062	-7,765	-1,936
Above Normal (15%)	-3,312	-4,220	-7,109	-3,199	-2,297	-3,347	904	535	-4,506	-8,292	-8,773	-2,419
Below Normal (17%)	-4,084	-3,522	-7,196	-4,153	-2,593	-3,532	502	34	-3,714	-9,234	-7,645	-4,347
Dry (22%)	-3,662	-3,265	-7,437	-4,506	-3,828	-2,793	-798	-1,023	-2,938	-8,833	-5,464	-4,338
Critical (15%)	-4,508	-3,295	-5,426	-4,039	-3,193	-1,879	-979	-826	-1,923	-3,451	-2,968	-4,036

Alternative 5A (ELT) minus No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,481	4,389	51	853	803	335	0	403	261	3,674	**-197**	4,175
20%	2,222	4,473	742	0	927	13	10	56	169	1,921	3,904	3,840
30%	1,553	3,780	0	**0**	334	792	**-20**	**0**	**-344**	1,747	3,613	3,964
40%	1,316	1,564	0	0	724	677	0	0	0	1,558	4,838	3,696
50%	1,068	1,201	0	0	315	284	**-3**	0	0	1,475	4,123	4,074
60%	723	1,506	95	85	1,339	752	**-54**	28	337	1,003	2,603	4,271
70%	312	1,926	94	0	814	935	16	72	13	1,024	1,961	4,695
80%	453	1,860	**-154**	0	0	326	**-275**	323	0	427	850	5,093
90%	1,180	849	50	0	0	0	**-160**	161	0	241	240	4,957
Long Term												
Full Simulation Period[a]	1,321	2,239	194	256	696	599	**-33**	96	118	1,326	2,166	4,166
Water Year Types[b]												
Wet (32%)	1,812	2,851	377	586	1,363	1,359	55	283	181	1,016	2,791	6,523
Above Normal (15%)	1,248	1,994	236	318	809	731	**-1**	**-14**	111	762	2,053	6,461
Below Normal (17%)	1,086	2,661	174	173	579	412	6	**-34**	**-136**	1,208	1,808	4,205
Dry (22%)	1,369	2,008	62	198	89	30	**-176**	**-61**	101	1,200	2,680	1,861
Critical (15%)	529	1,011	**-22**	**-340**	184	**-110**	**-86**	186	311	2,886	575	176

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

C.49. Total Delta Exports

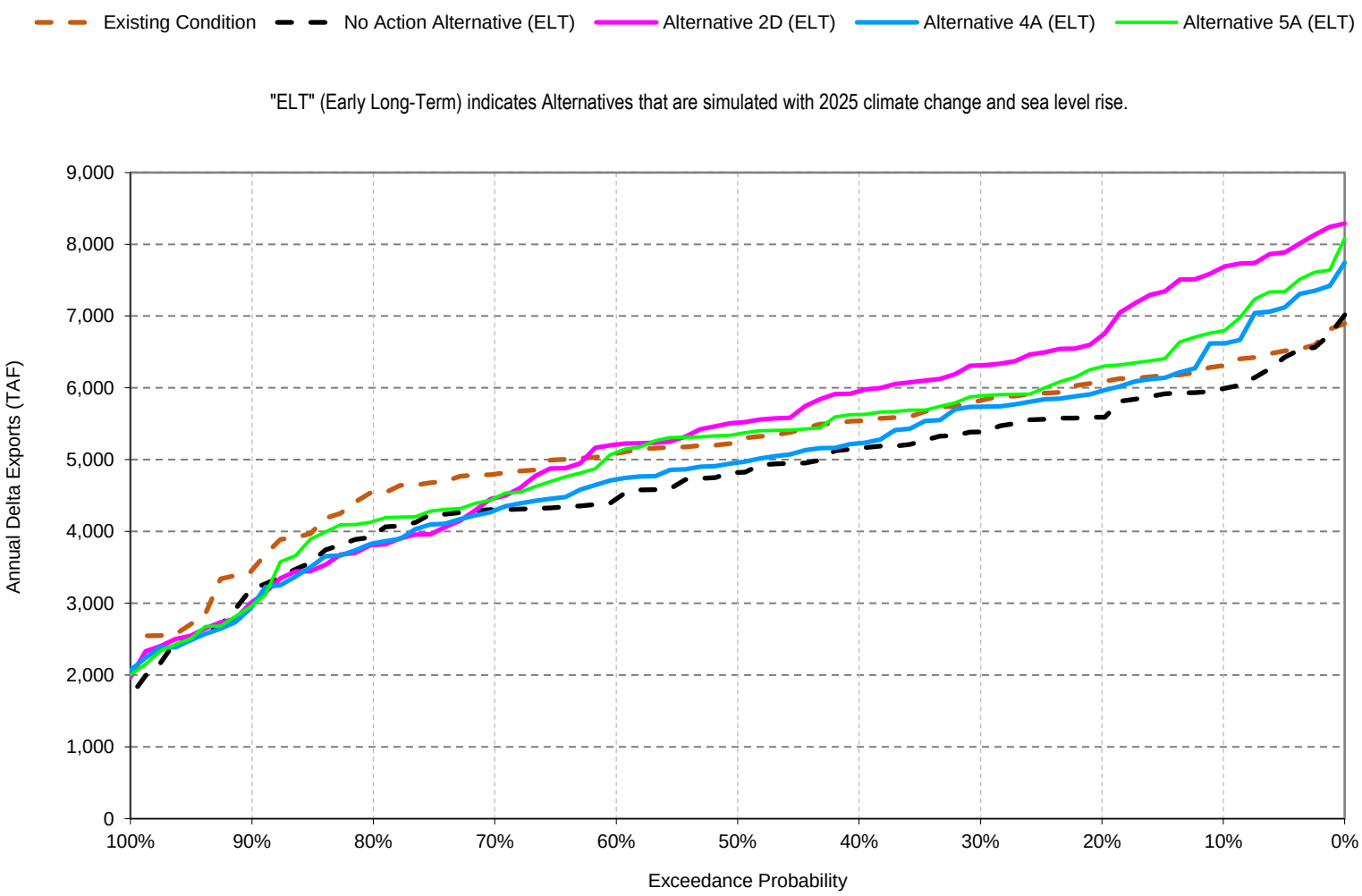


Figure C-49-1. Total Delta Exports

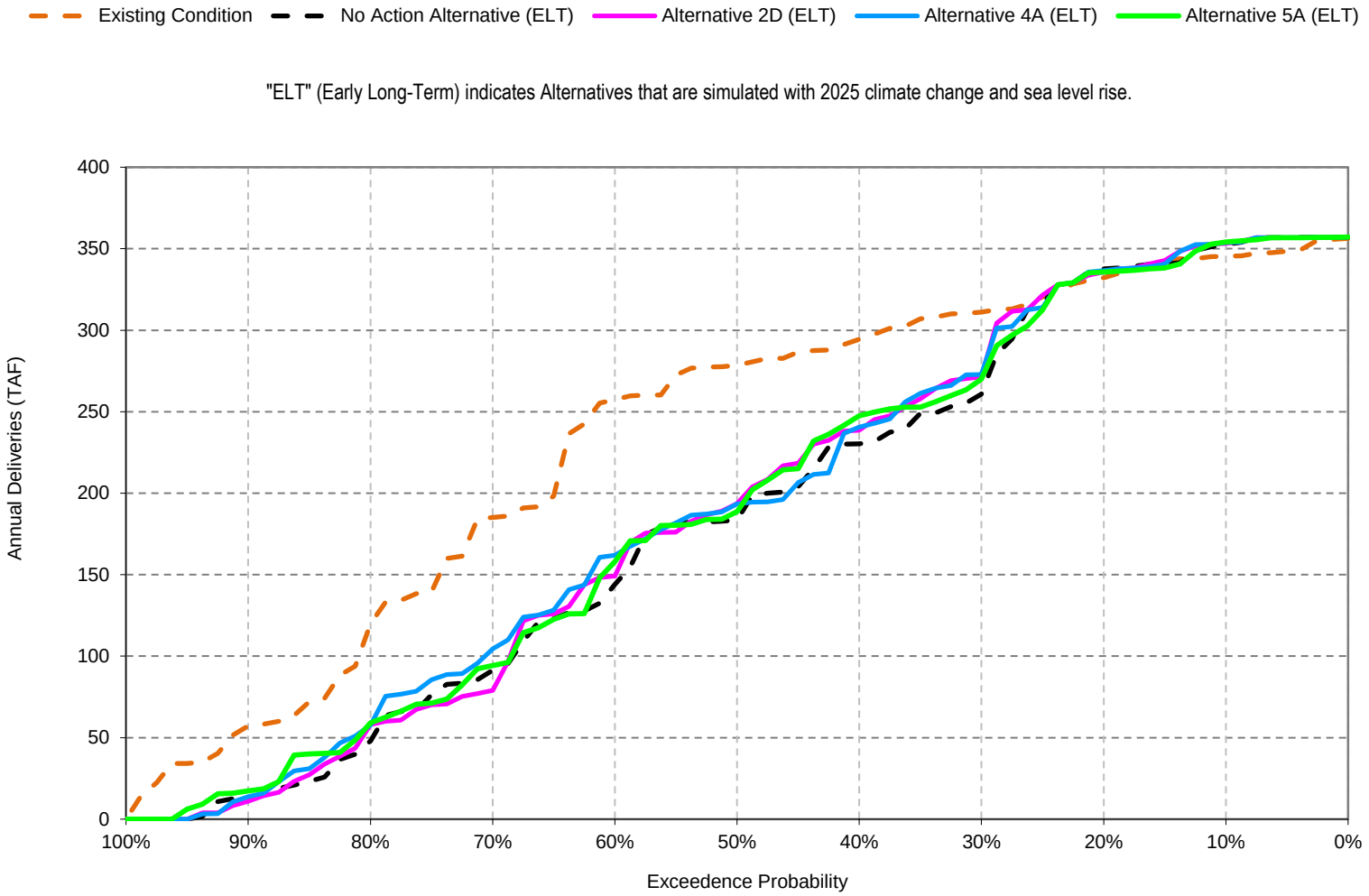


Figure C-52-1. Annual CVP North of Delta Agricultural Water Service Contract

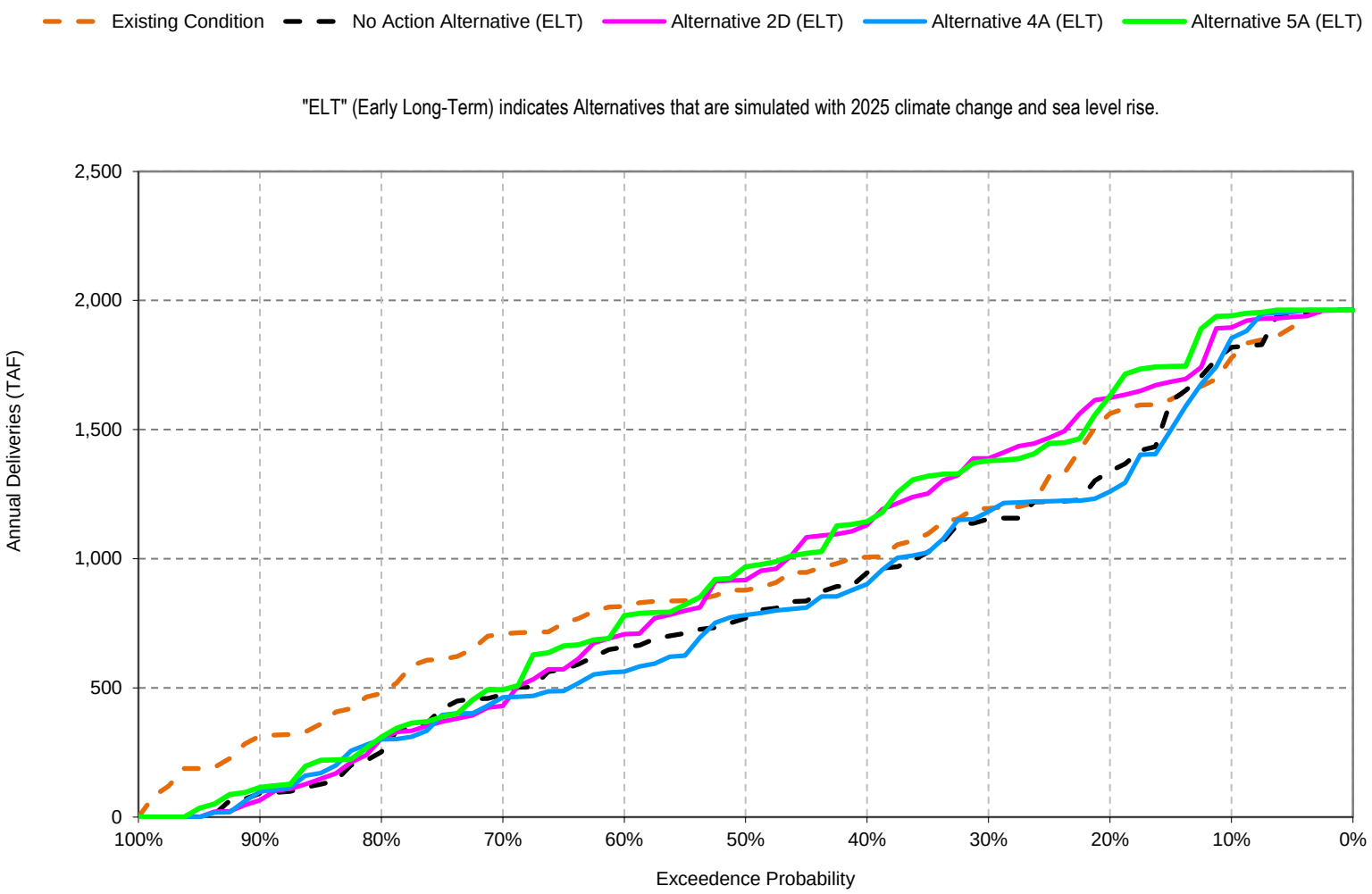


Figure C-52-2. Annual CVP South of Delta Agricultural Water Service Contract

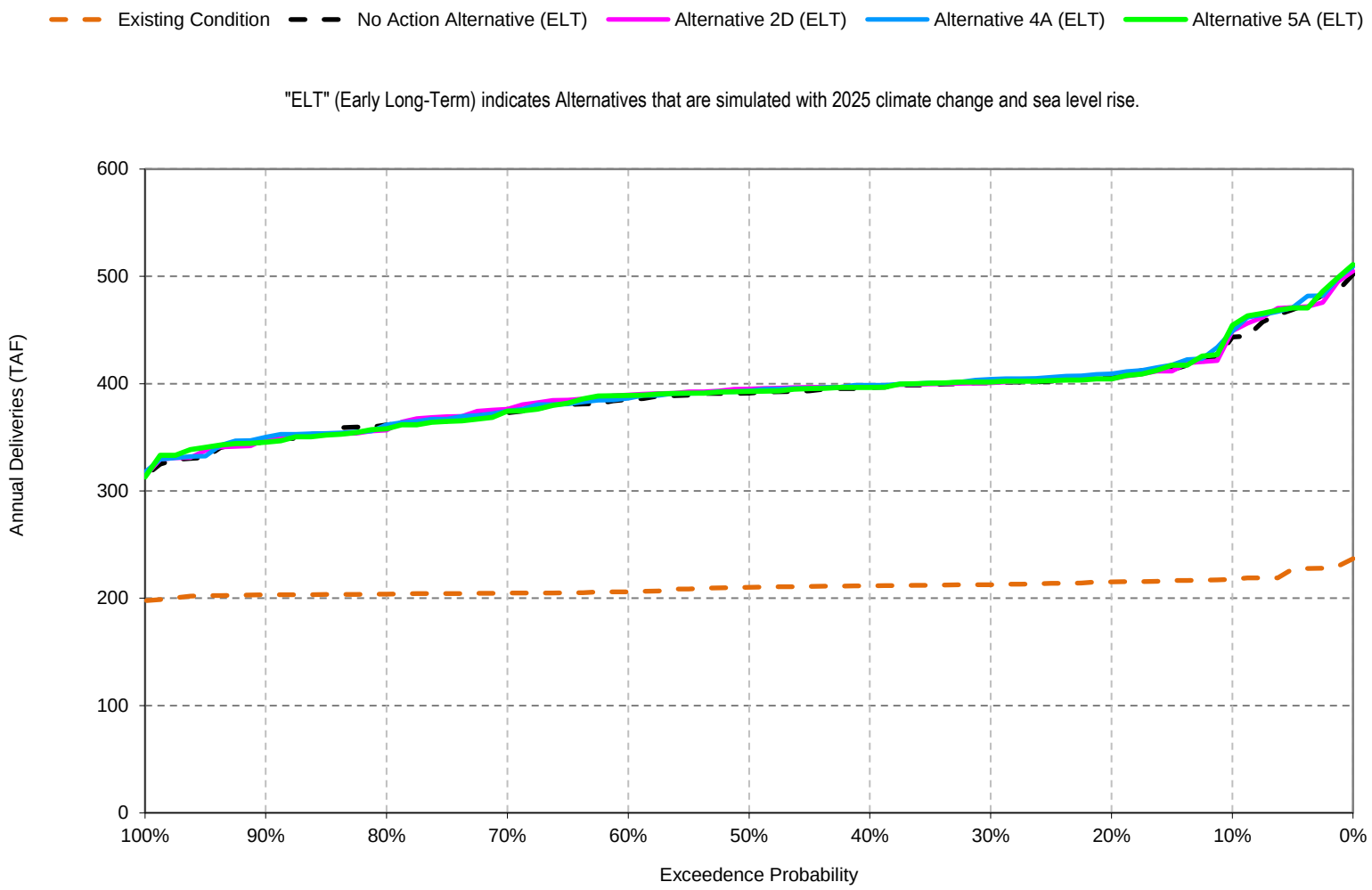


Figure C-52-3. Annual CVP North of Delta M&I Water Service Contract Deliveries

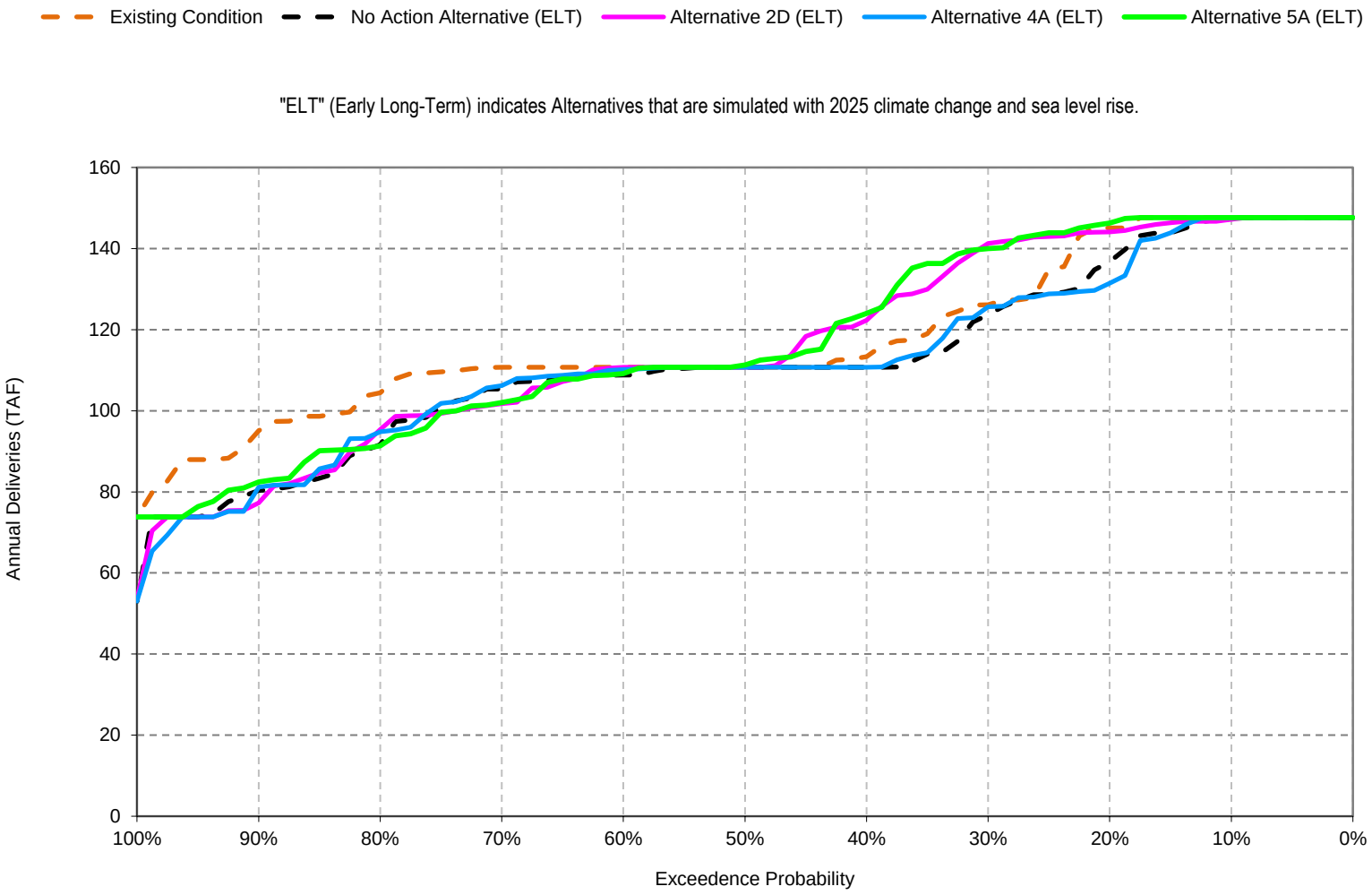


Figure C-52-4. Annual CVP South of Delta M&I Water Service Contract Deliveries

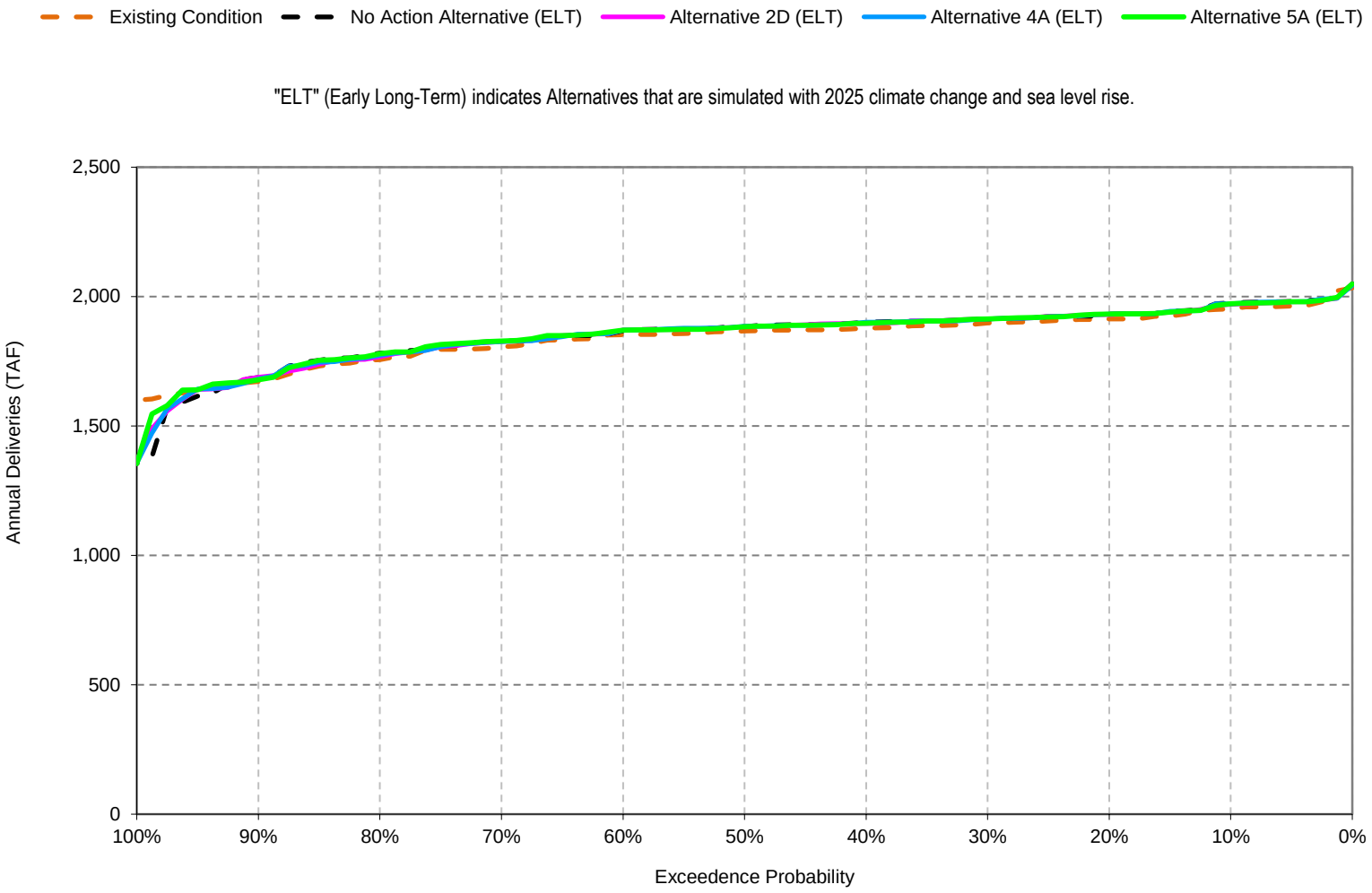


Figure C-52-5. Total Annual CVP Settlement Contactor Deliveries

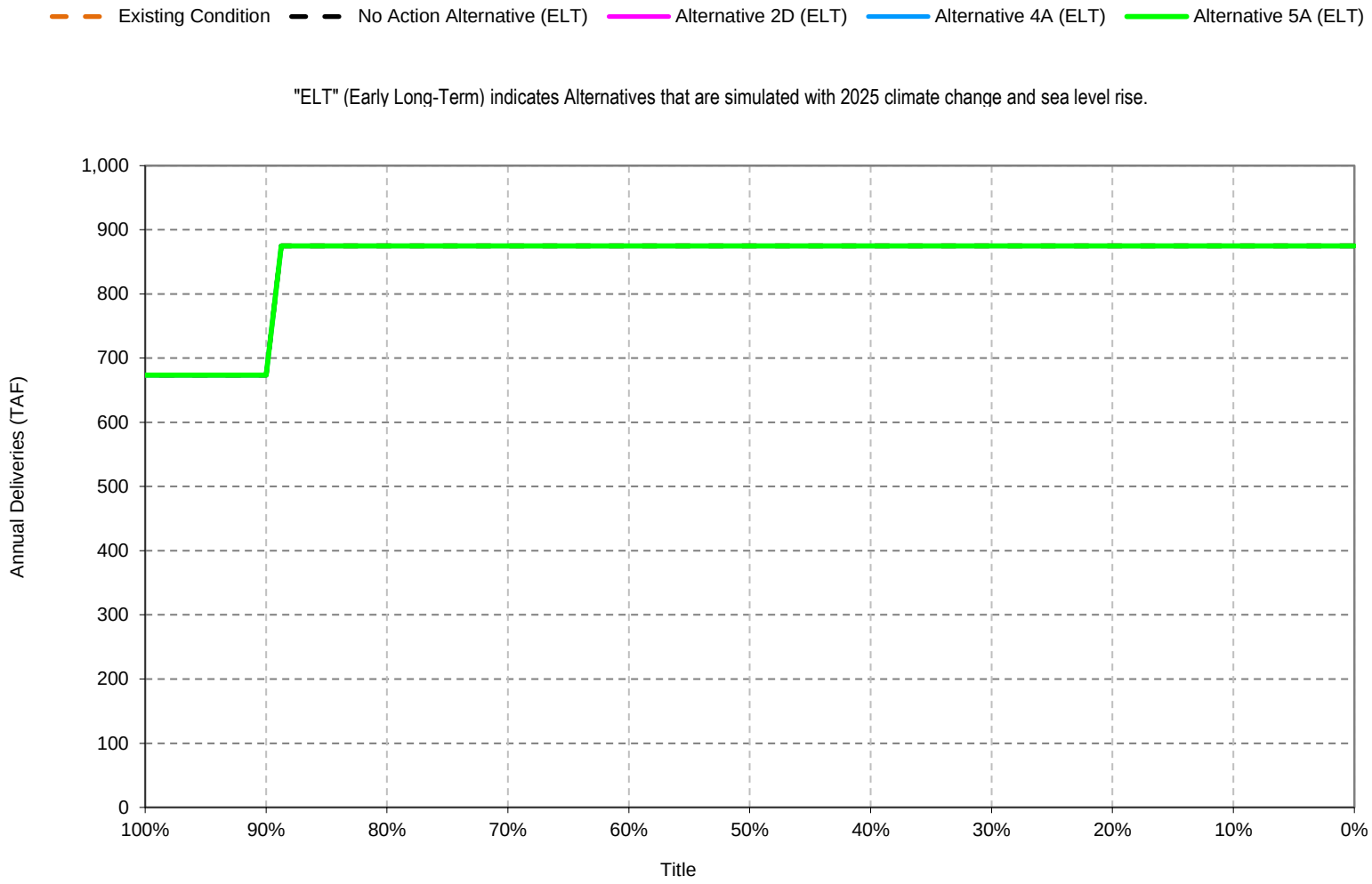


Figure C-52-6. Total Annual CVP Exchange Contactor Deliveries

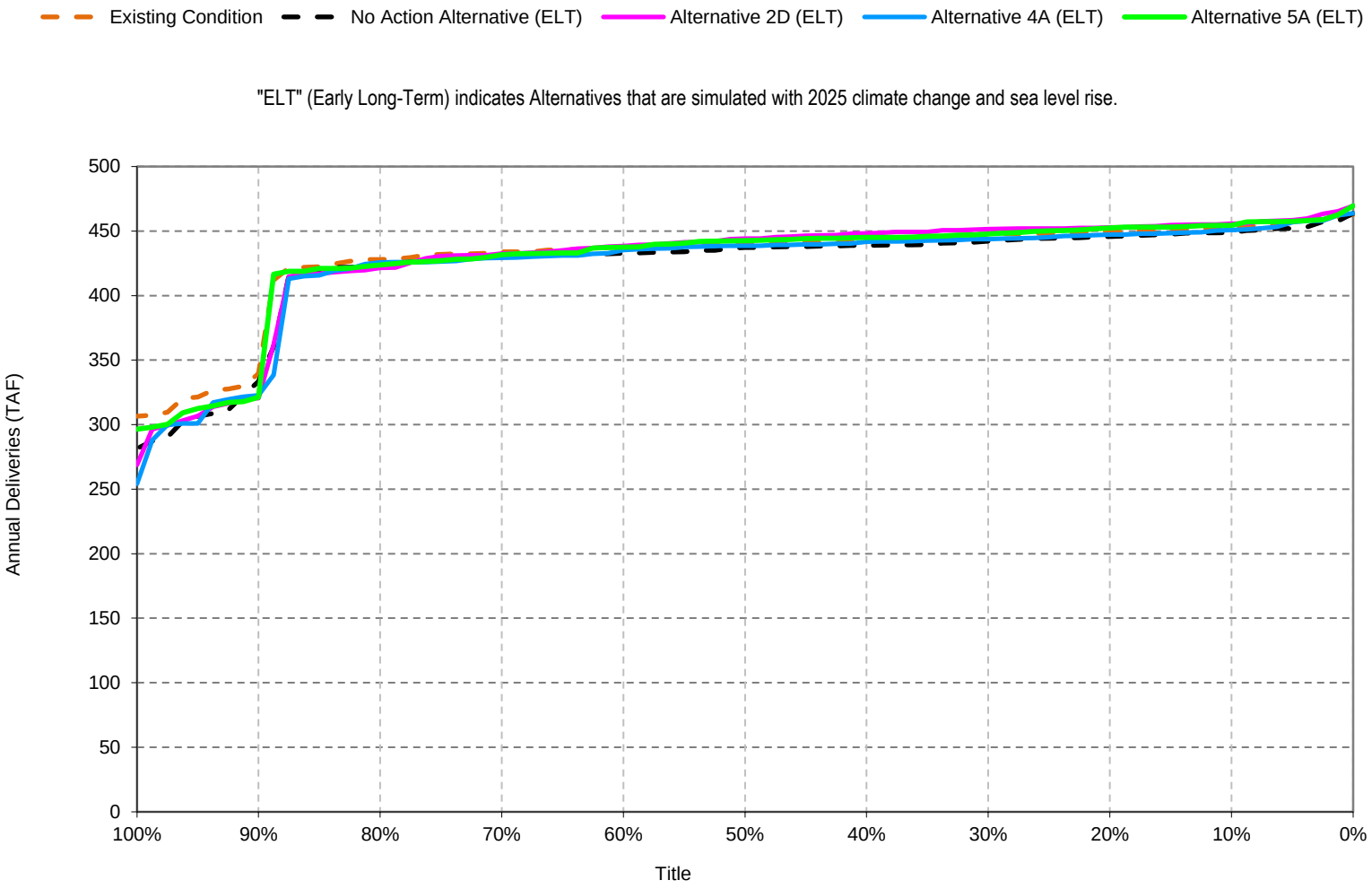


Figure C-52-7. Total Annual CVP Refuge Level 2 Deliveries

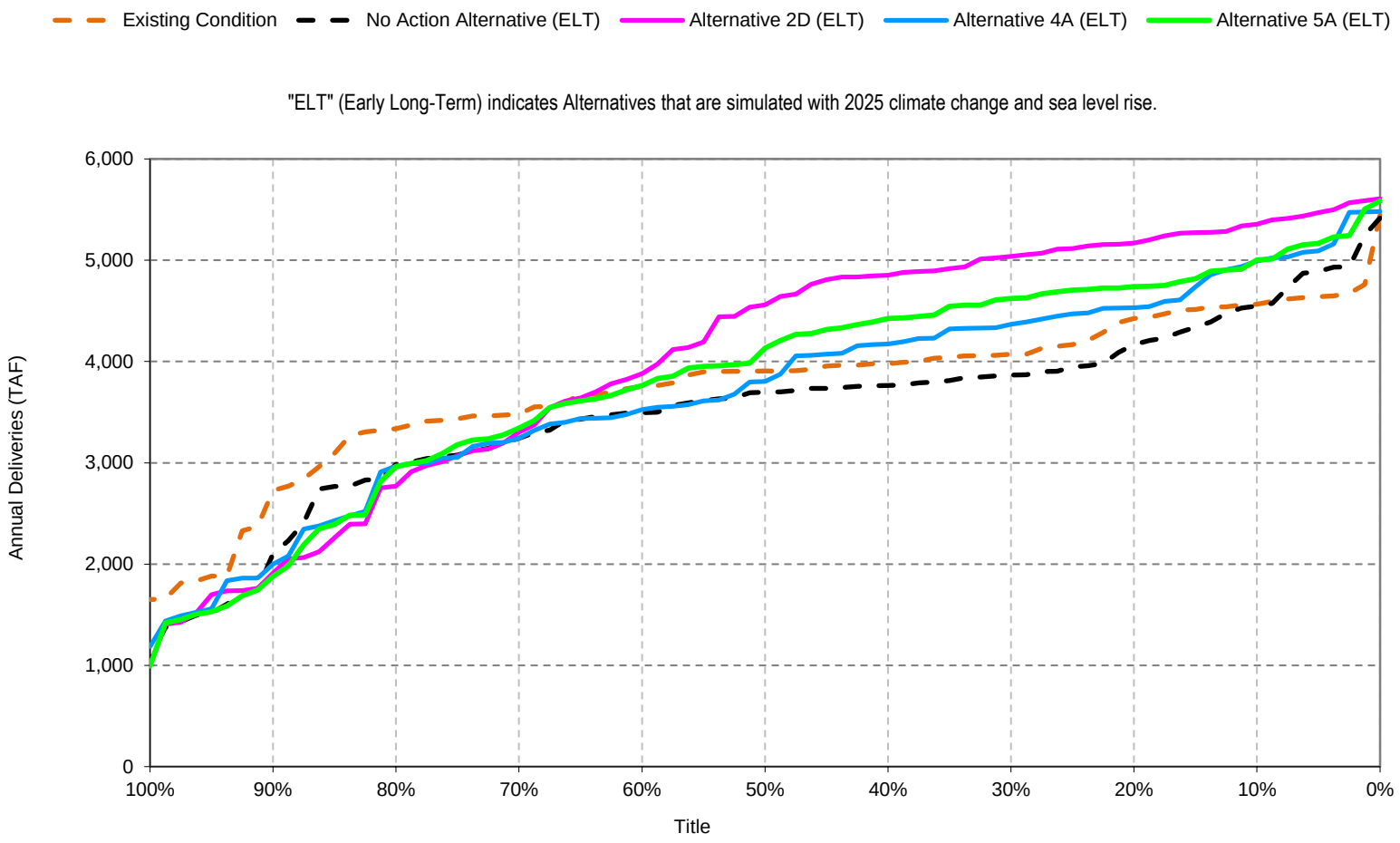


Figure C-52-8. Total Annual SWP Deliveries

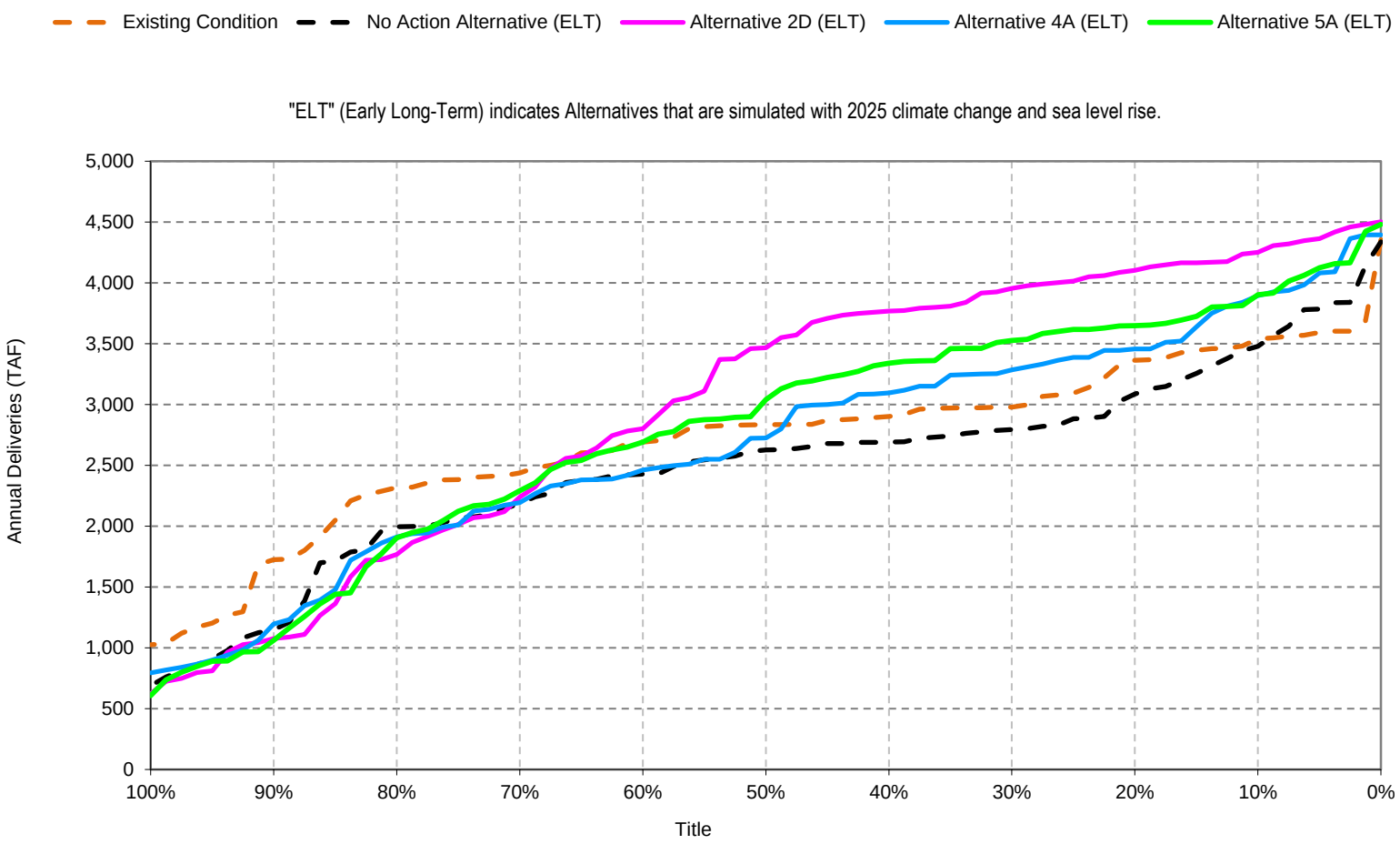


Figure C-52-9. Total Annual SWP South of Delta Deliveries including Article 21 and 56

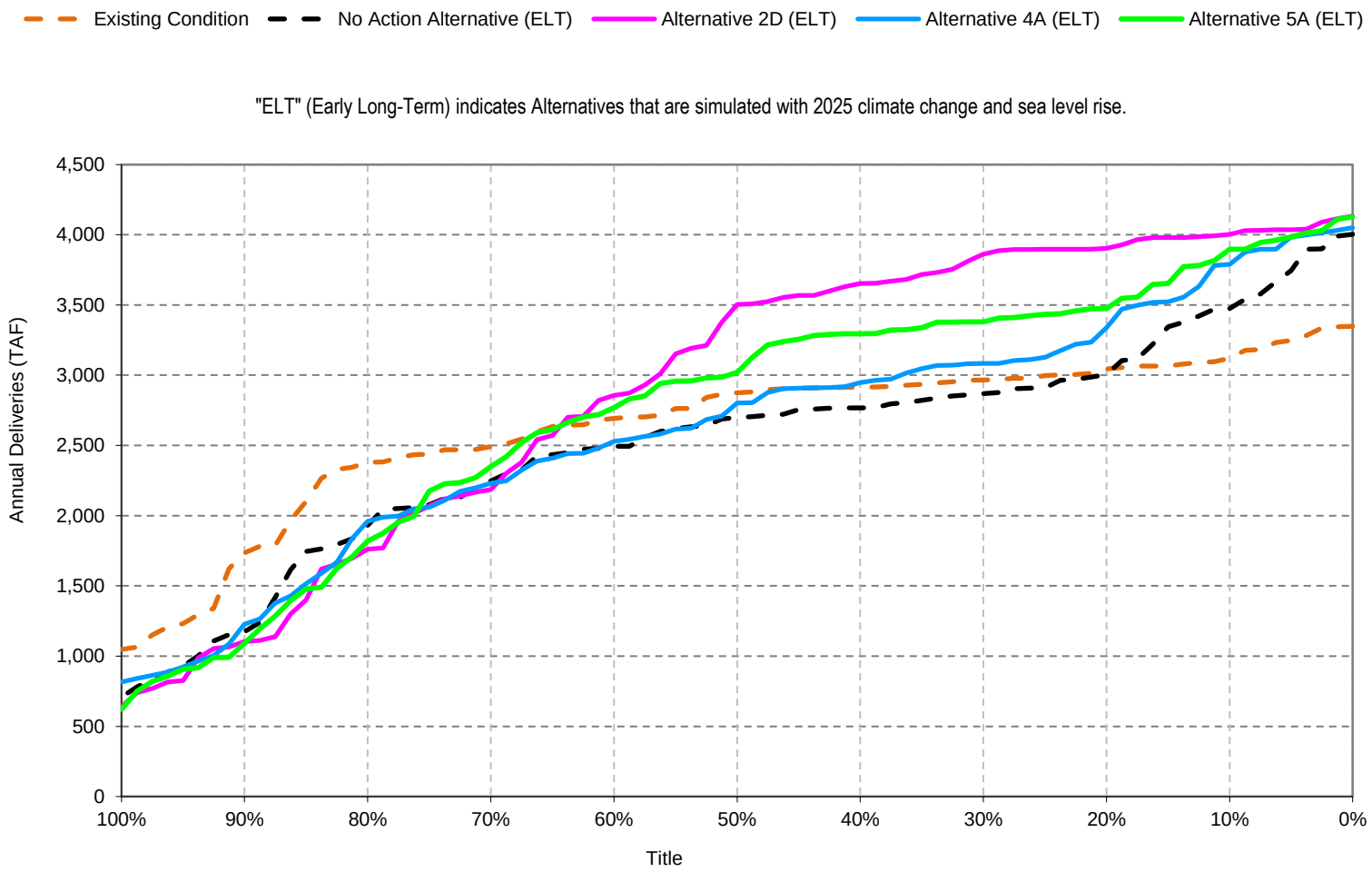


Figure C-52-10. Annual SWP Table A Deliveries with Article 56

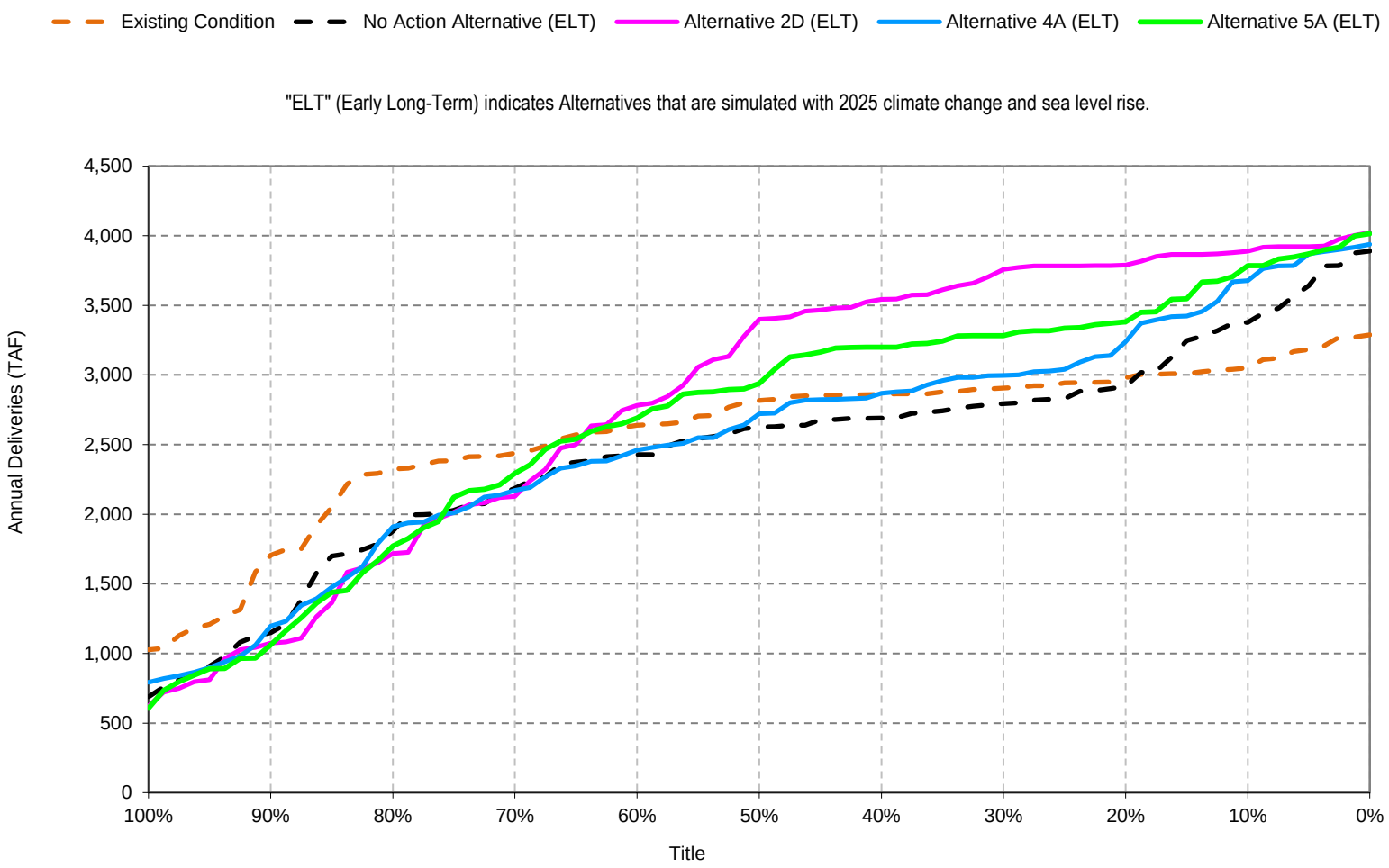


Figure C-52-11. Annual SWP South of Delta Table A Deliveries with Article 56

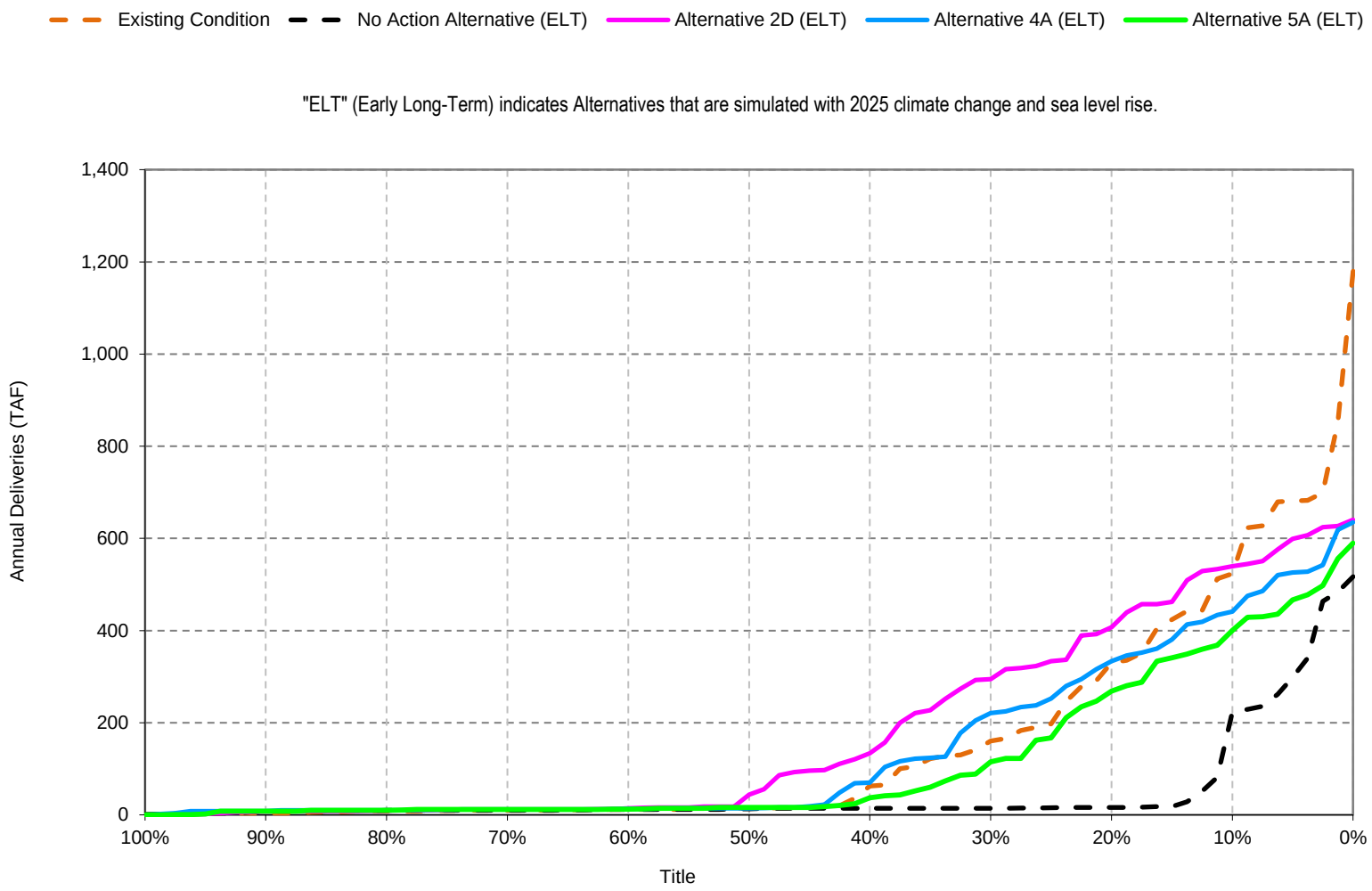


Figure C-52-12. Annual SWP Article 21 Deliveries

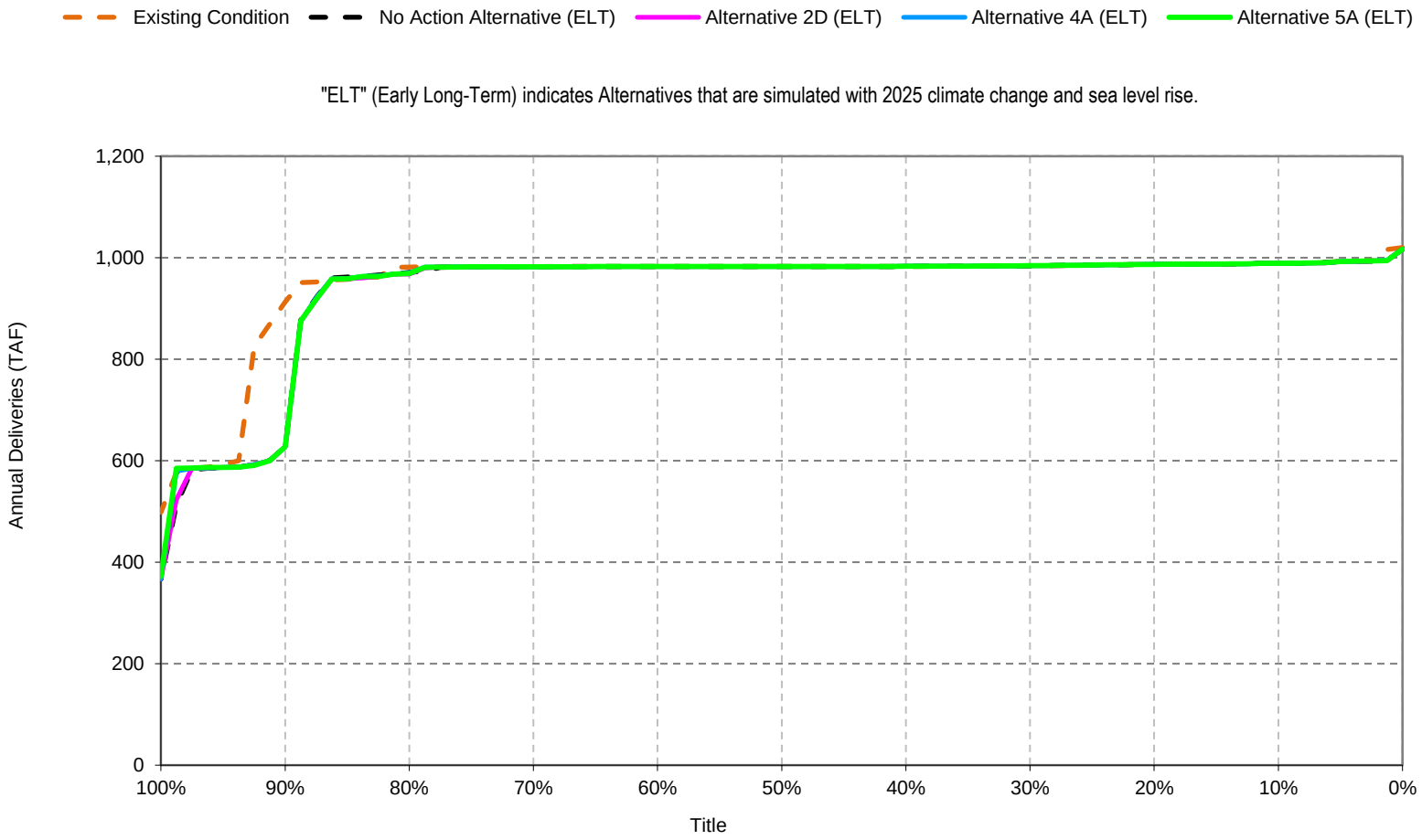


Figure C-52-13. Total Annual SWP FRSA Deliveries

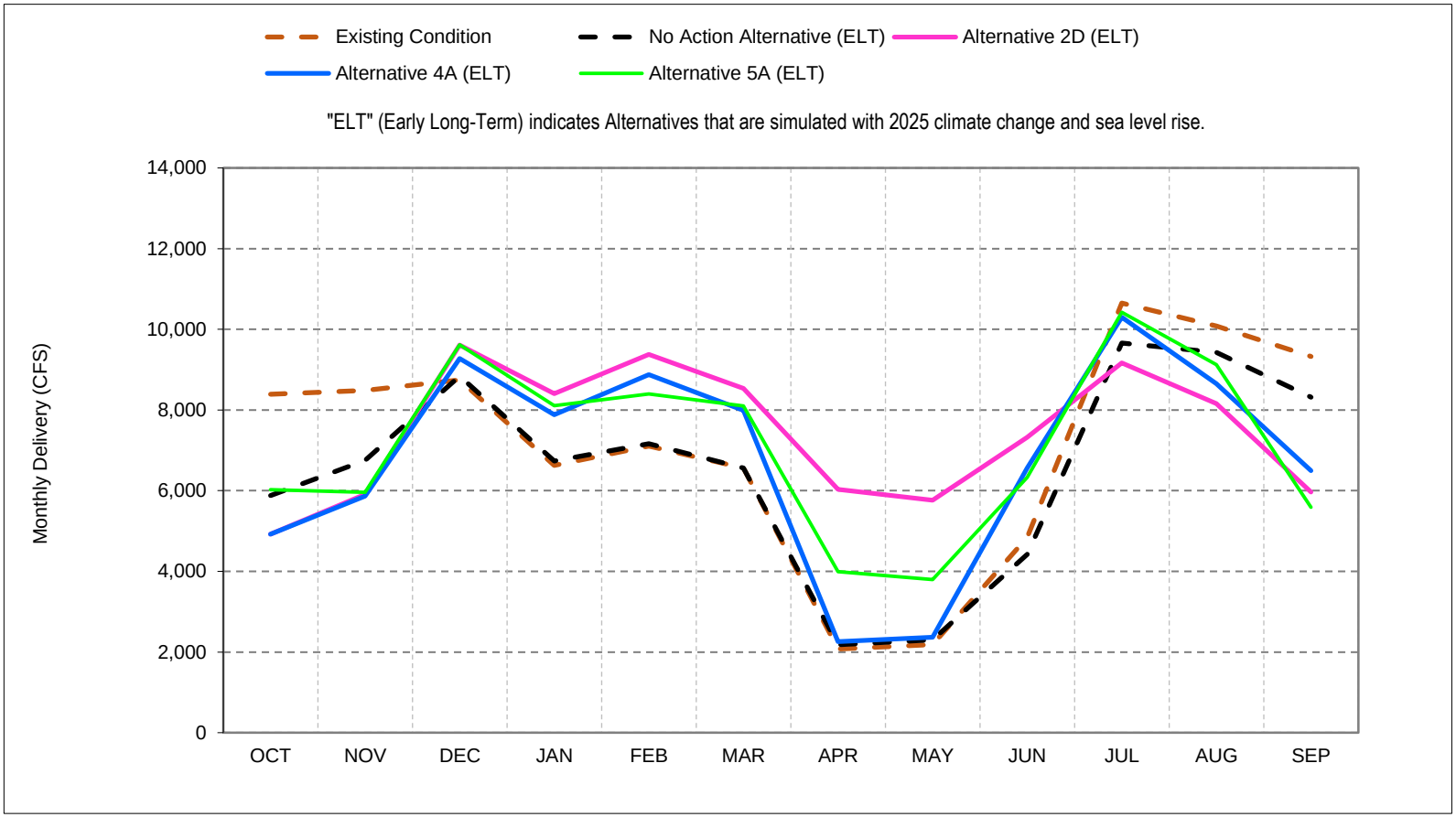
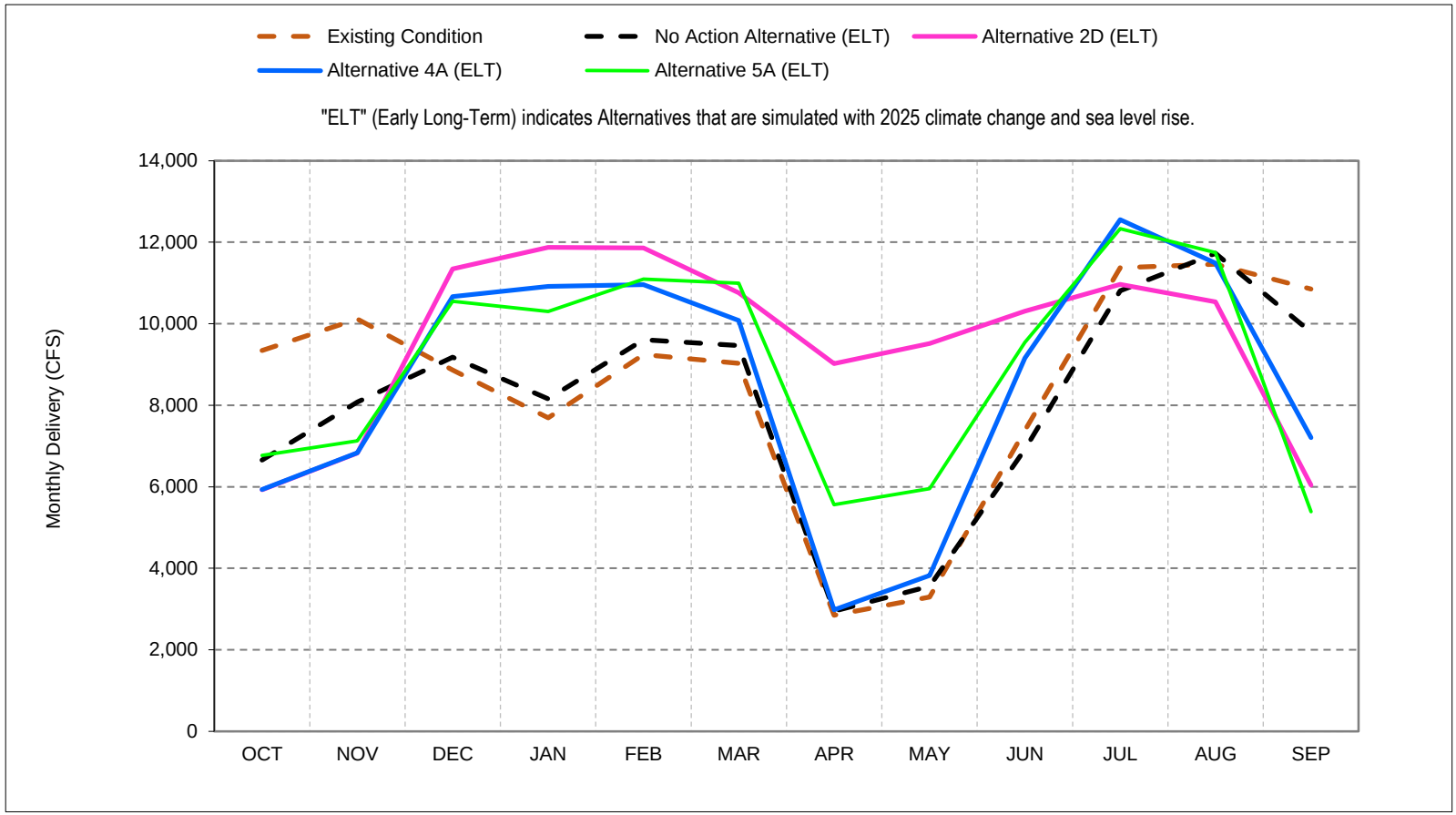
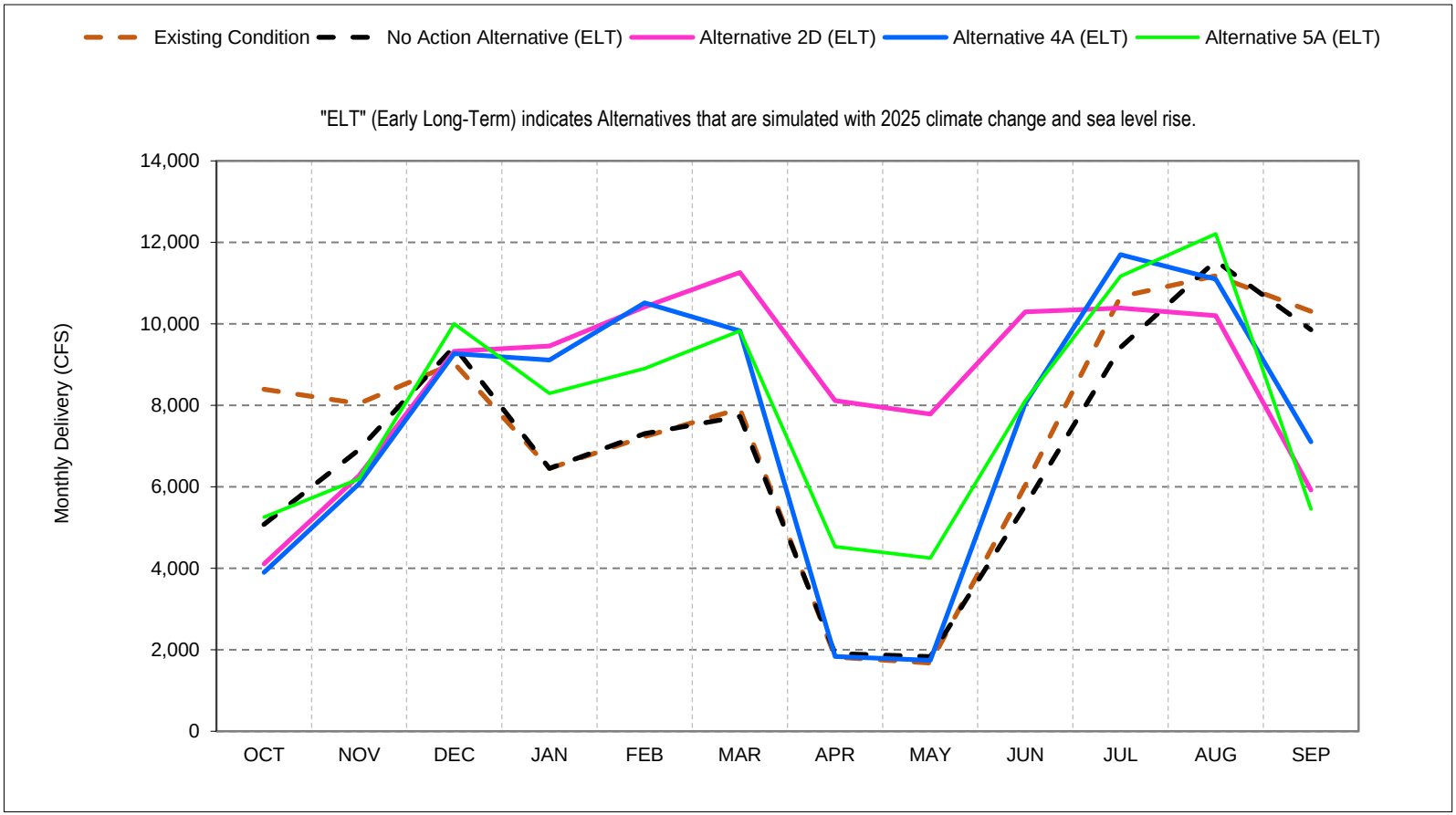


Figure C-49-1. Total Exports, Long-Term Average Delivery



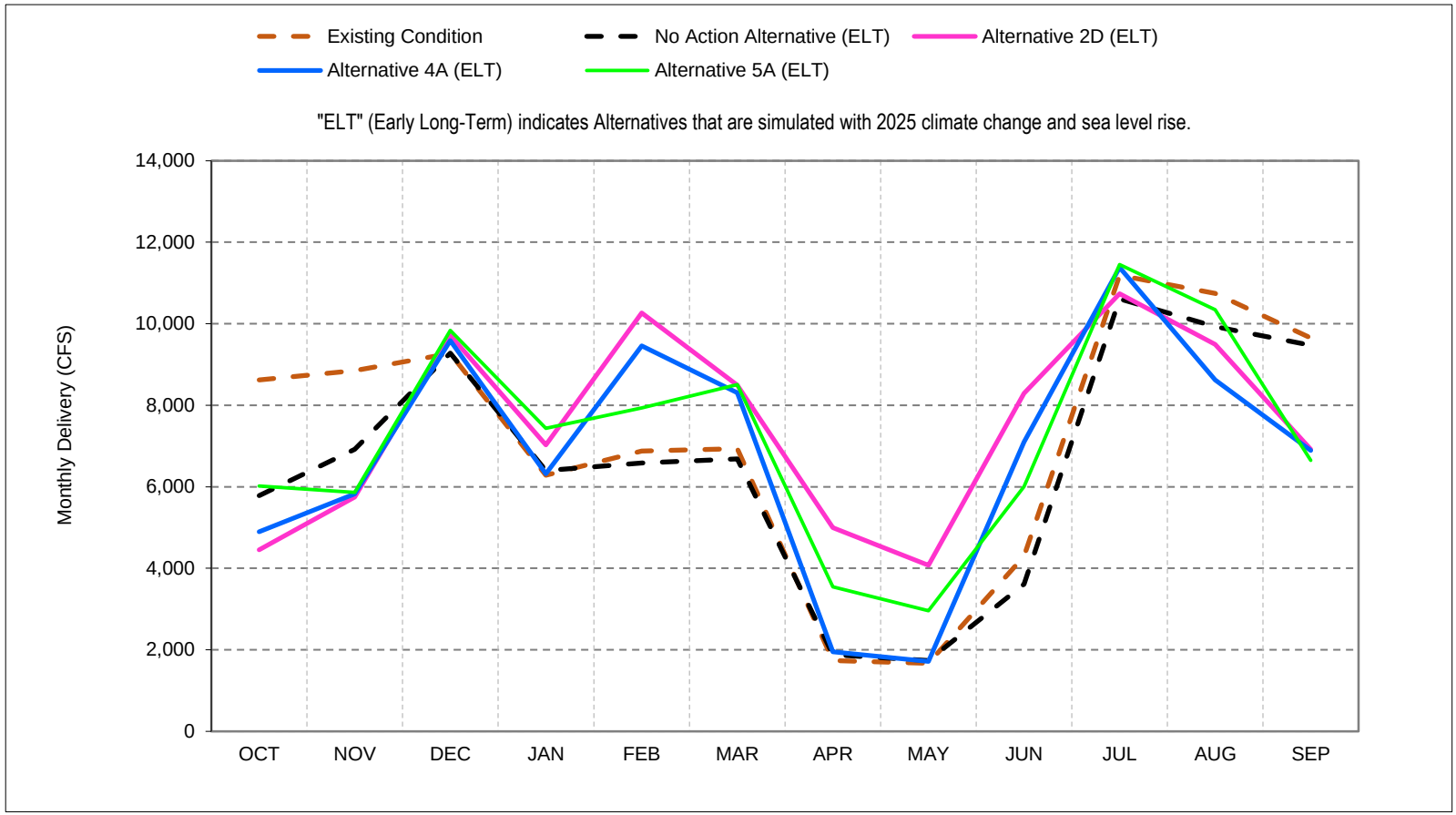
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-49-2. Total Exports, Wet Year* Average Delivery



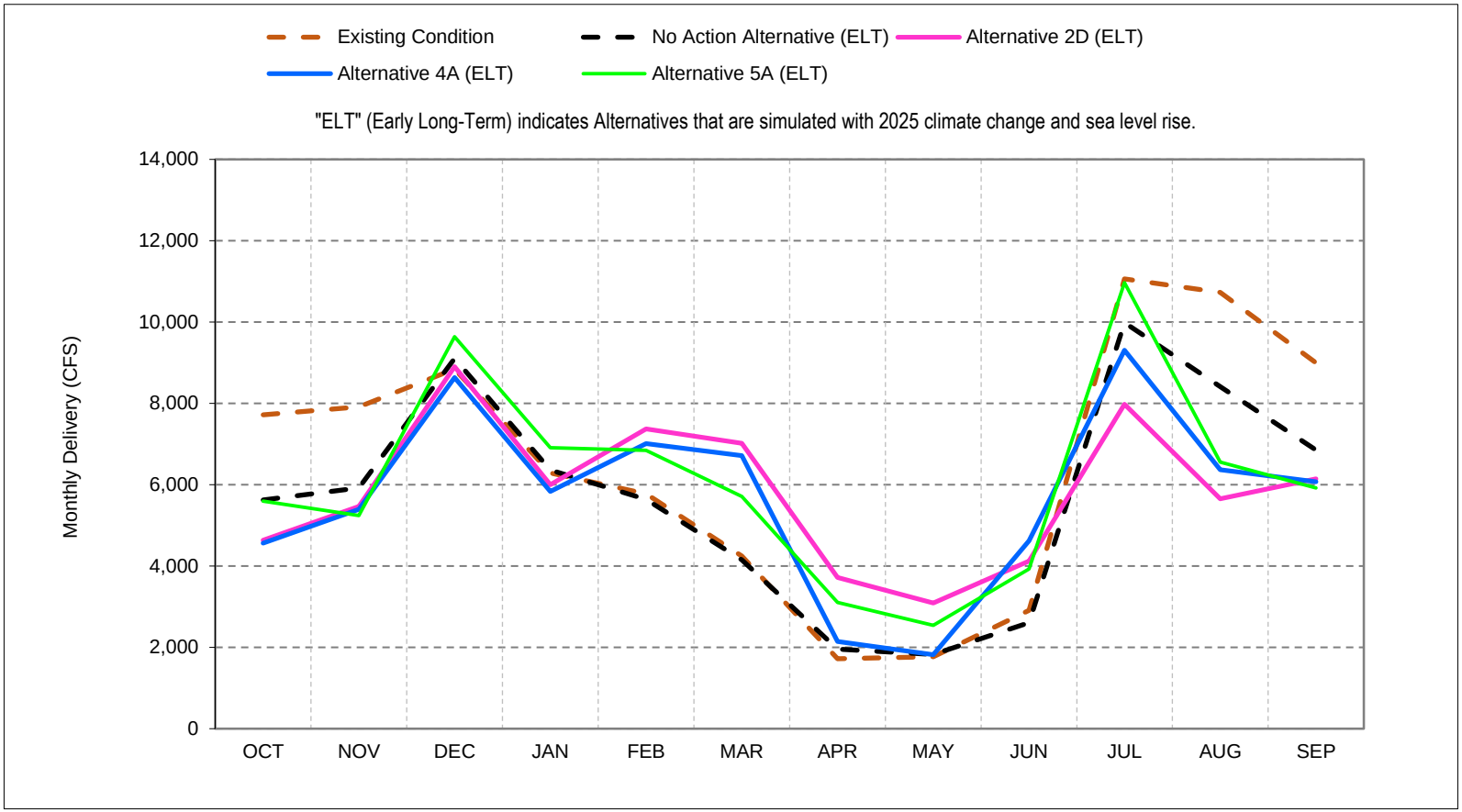
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-49-3. Total Exports, Above Normal Year* Average Delivery



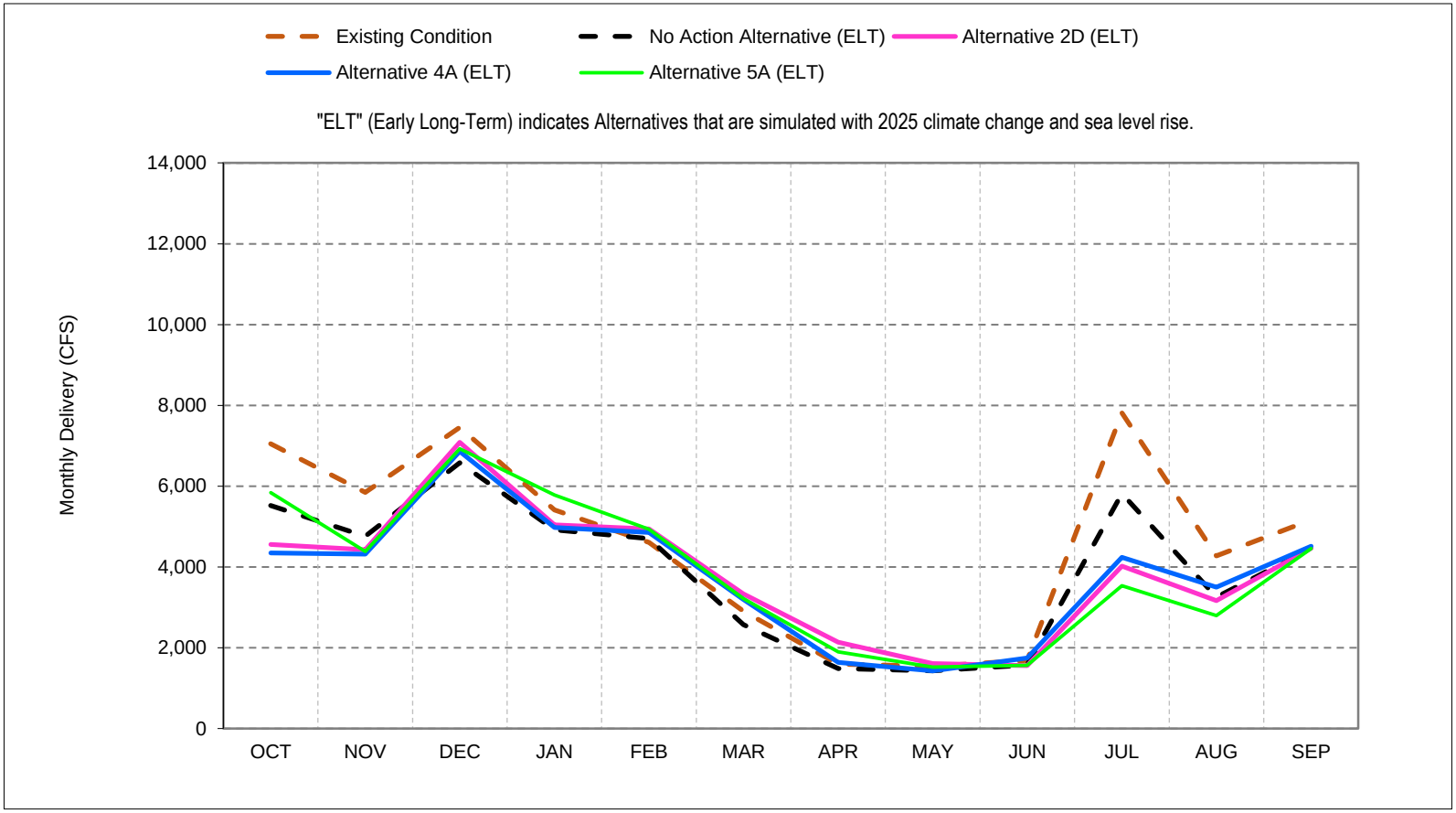
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-49-4. Total Exports, Below Normal Year* Average Delivery



*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-49-5. Total Exports, Dry Year* Average Delivery



*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-49-6. Total Exports, Critical Year* Average Delivery

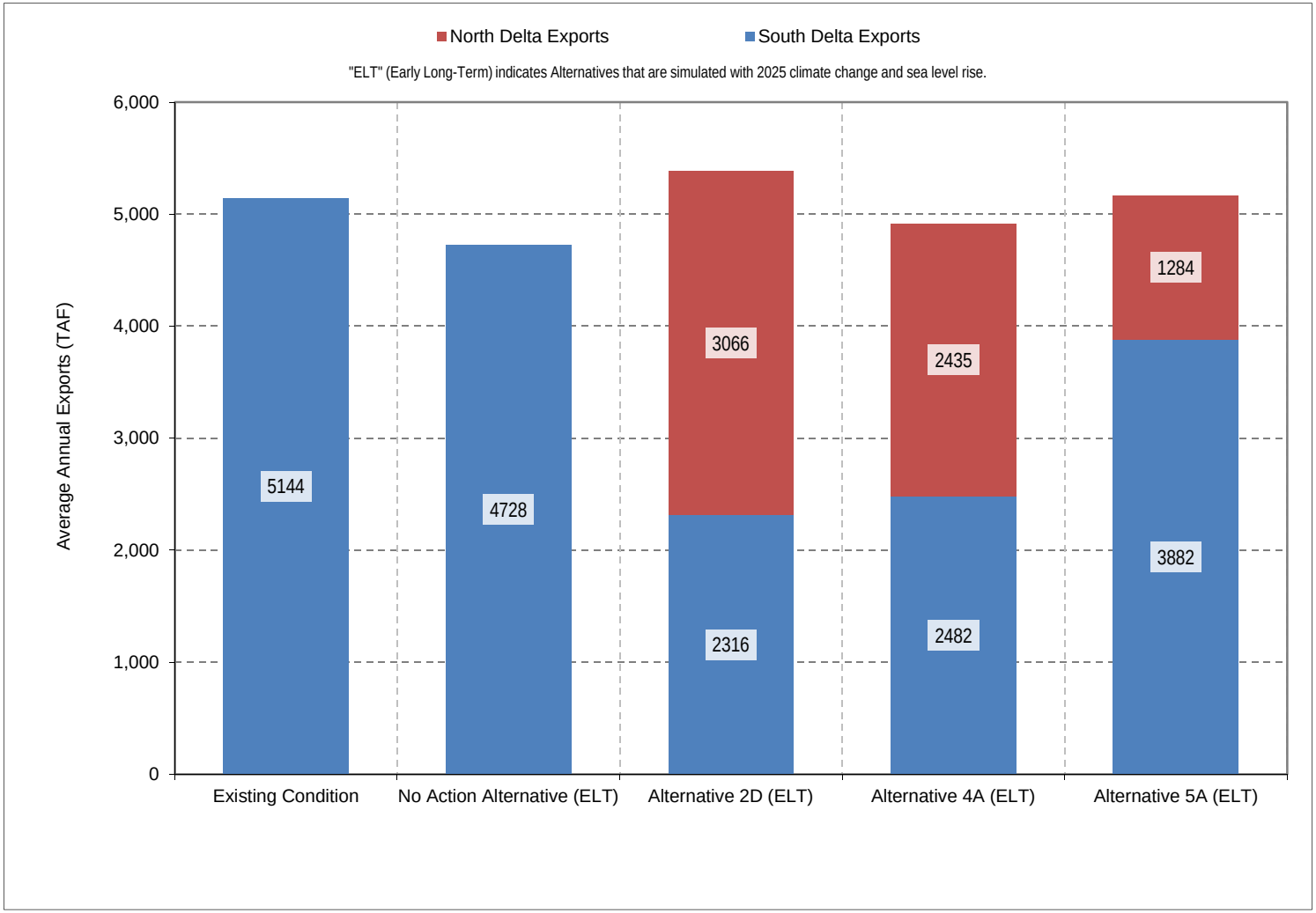


Figure C-49-8.North and South Delta Exports - Long-term Average

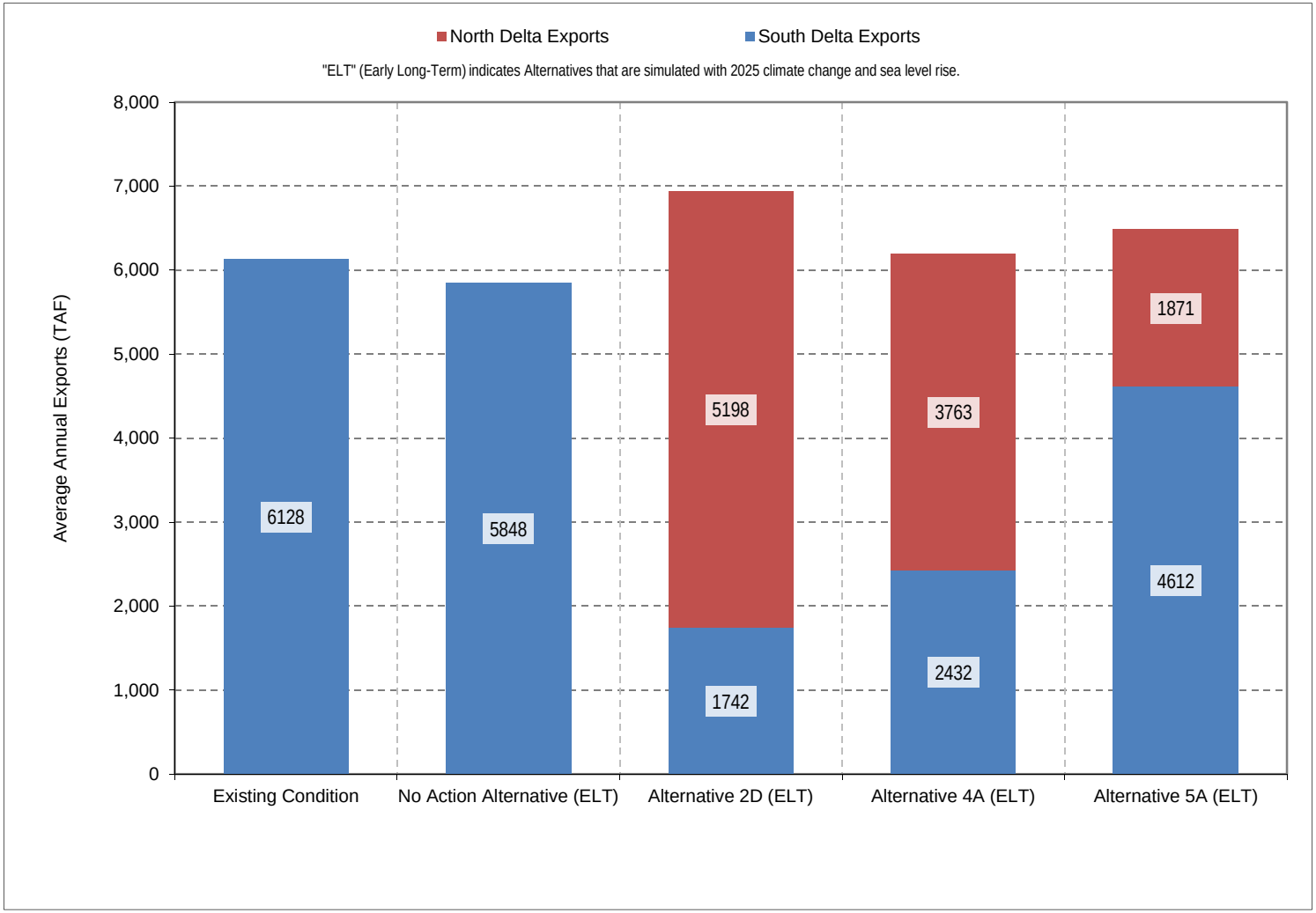


Figure C-49-9.North and South Delta Exports - Wet Year Average

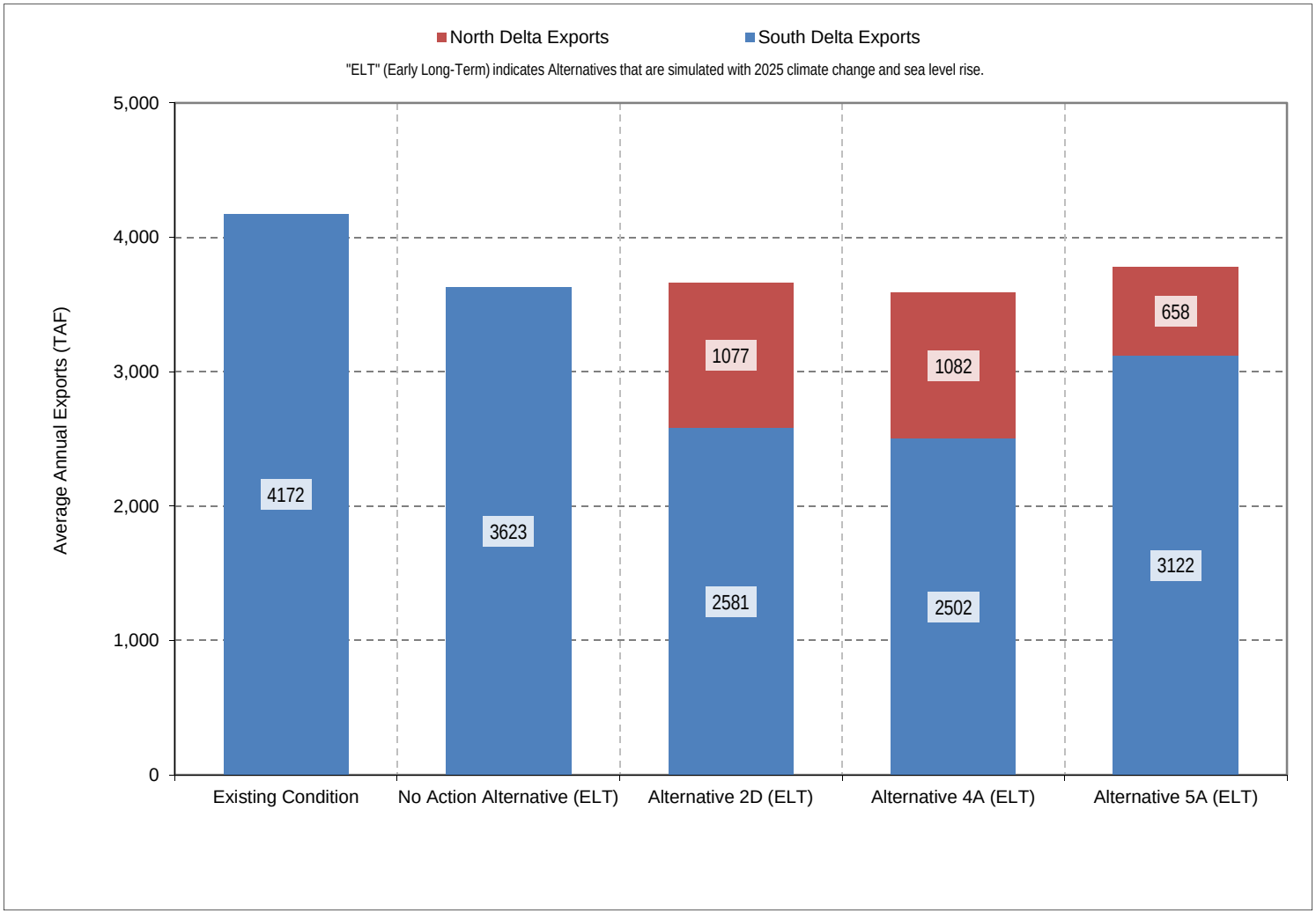


Figure C-49-10.North and South Delta Exports - Dry and Critical Average

Table C-49-1-1. Total Delta Exports, Monthly Delivery Rate

Existing Condition

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	11,044	10,934	11,317	8,932	10,779	9,816	3,240	3,381	9,032	11,595	11,725	11,158	8,711
20%	10,967	10,917	11,235	7,749	9,327	9,134	2,276	2,297	7,236	11,555	11,685	11,137	8,397
30%	10,389	10,903	9,988	6,883	8,257	8,647	2,055	1,847	5,468	11,502	11,669	11,041	8,035
40%	9,581	10,117	9,200	6,799	7,707	7,383	1,842	1,660	5,125	11,426	11,551	10,345	7,633
50%	8,972	9,052	8,500	6,435	6,855	6,604	1,714	1,570	4,469	11,384	11,461	9,891	7,261
60%	7,704	8,374	8,004	6,365	6,598	5,594	1,607	1,500	3,506	11,284	11,350	9,439	6,991
70%	7,180	7,212	7,638	5,905	5,969	4,804	1,500	1,500	3,080	11,076	11,058	9,029	6,612
80%	6,139	6,249	7,096	5,053	4,978	4,513	1,500	1,500	2,787	10,397	8,961	8,218	6,250
90%	4,847	4,660	6,185	4,460	3,823	2,260	1,500	1,500	1,598	8,986	4,363	4,996	4,761
Long Term													
Full Simulation Period[a]	8,389	8,488	8,747	6,627	7,105	6,562	2,076	2,188	4,844	10,650	10,084	9,328	7,091
Water Year Types[b]													
Wet (32%)	9,345	10,117	8,867	7,695	9,241	9,030	2,847	3,294	7,386	11,377	11,461	10,853	8,459
Above Normal (15%)	8,395	8,039	9,033	6,447	7,231	7,913	1,819	1,675	6,033	10,665	11,177	10,304	7,394
Below Normal (17%)	8,618	8,849	9,268	6,281	6,879	6,933	1,736	1,667	4,295	11,188	10,742	9,650	7,175
Dry (22%)	7,721	7,916	8,841	6,286	5,773	4,243	1,718	1,765	2,907	11,061	10,726	8,999	6,496
Critical (15%)	7,049	5,845	7,453	5,411	4,613	2,910	1,595	1,545	1,692	7,815	4,278	5,169	4,615

No Action Alternative (ELT)

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	8,224	10,751	11,696	9,904	10,560	10,610	3,493	3,654	8,309	11,605	11,780	11,280	8,255
20%	6,666	8,939	11,081	8,122	9,357	9,346	2,489	2,333	5,888	11,551	11,780	11,071	7,710
30%	6,465	7,699	10,434	6,960	8,207	8,668	2,159	1,922	5,301	11,329	11,780	10,319	7,456
40%	6,093	6,777	9,743	6,780	7,613	7,170	1,924	1,765	4,834	11,157	11,630	9,461	7,128
50%	5,732	6,069	8,646	6,579	6,785	6,520	1,764	1,621	3,726	10,812	11,511	9,053	6,632
60%	5,457	5,690	8,050	6,390	6,605	5,412	1,631	1,507	3,214	9,952	11,100	8,610	6,134
70%	5,043	5,176	7,560	6,027	5,752	4,602	1,506	1,500	2,883	9,256	8,466	6,741	5,914
80%	4,481	4,787	7,218	5,086	4,850	4,321	1,500	1,500	1,682	8,038	7,655	4,787	5,429
90%	3,972	4,416	5,675	4,245	3,769	2,180	1,500	1,500	1,442	6,713	1,979	4,510	4,422
Long Term													
Full Simulation Period[a]	5,881	6,750	8,837	6,738	7,164	6,561	2,181	2,302	4,423	9,659	9,425	8,318	6,520
Water Year Types[b]													
Wet (32%)	6,651	8,075	9,179	8,155	9,608	9,468	2,948	3,555	6,921	10,806	11,727	9,790	8,074
Above Normal (15%)	5,076	6,913	9,438	6,447	7,303	7,728	1,904	1,832	5,542	9,418	11,542	9,854	6,917
Below Normal (17%)	5,779	6,921	9,278	6,397	6,583	6,681	1,881	1,735	3,610	10,610	9,930	9,469	6,573
Dry (22%)	5,626	5,922	9,103	6,363	5,635	4,152	1,956	1,824	2,601	9,985	8,409	6,848	5,702
Critical (15%)	5,522	4,761	6,581	4,917	4,702	2,571	1,484	1,432	1,577	5,818	3,253	4,455	3,923

No Action Alternative (ELT) minus Existing Condition

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	-2,820	-183	379	972	-219	793	253	273	-723	10	55	122	-456
20%	-4,302	-1,977	-153	374	30	212	213	37	-1,348	-4	95	-65	-687
30%	-3,924	-3,204	446	76	-49	21	104	76	-167	-173	111	-722	-579
40%	-3,489	-3,341	543	-19	-95	-213	82	105	-291	-269	79	-884	-505
50%	-3,240	-2,983	146	143	-70	-84	50	51	-743	-572	50	-838	-629
60%	-2,247	-2,684	46	25	7	-181	23	7	-292	-1,332	-249	-830	-857
70%	-2,137	-2,035	-78	122	-217	-202	6	0	-196	-1,819	-2,592	-2,288	-698
80%	-1,657	-1,462	122	34	-128	-192	0	0	-1,104	-2,359	-1,306	-3,431	-821
90%	-875	-243	-510	-215	-54	-79	0	0	-156	-2,274	-2,384	-486	-339
Long Term													
Full Simulation Period[a]	-2,508	-1,738	90	110	59	-1	106	114	-420	-990	-659	-1,010	-571
Water Year Types[b]													
Wet (32%)	-2,694	-2,042	313	460	367	438	101	261	-465	-571	266	-1,062	-386
Above Normal (15%)	-3,318	-1,126	405	0	71	-185	85	156	-490	-1,247	365	-450	-478
Below Normal (17%)	-2,839	-1,927	10	116	-296	-252	145	68	-685	-578	-812	-181	-603
Dry (22%)	-2,095	-1,993	261	77	-138	-92	239	59	-306	-1,076	-2,317	-2,151	-794
Critical (15%)	-1,527	-1,085	-872	-494	89	-339	-111	-113	-115	-1,997	-1,025	-714	-692

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-49-1-2. Total Delta Exports, Monthly Delivery Rate

Existing Condition

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	11,044	10,934	11,317	8,932	10,779	9,816	3,240	3,381	9,032	11,595	11,725	11,158	8,711
20%	10,967	10,917	11,235	7,749	9,327	9,134	2,276	2,297	7,236	11,555	11,685	11,137	8,397
30%	10,389	10,903	9,988	6,883	8,257	8,647	2,055	1,847	5,468	11,502	11,669	11,041	8,035
40%	9,581	10,117	9,200	6,799	7,707	7,383	1,842	1,660	5,125	11,426	11,551	10,345	7,633
50%	8,972	9,052	8,500	6,435	6,855	6,604	1,714	1,570	4,469	11,384	11,461	9,891	7,261
60%	7,704	8,374	8,004	6,365	6,598	5,594	1,607	1,500	3,506	11,284	11,350	9,439	6,991
70%	7,180	7,212	7,638	5,905	5,969	4,804	1,500	1,500	3,080	11,076	11,058	9,029	6,612
80%	6,139	6,249	7,096	5,053	4,978	4,513	1,500	1,500	2,787	10,397	8,961	8,218	6,250
90%	4,847	4,660	6,185	4,460	3,823	2,260	1,500	1,500	1,598	8,986	4,363	4,996	4,761
Long Term													
Full Simulation Period[a]	8,389	8,488	8,747	6,627	7,105	6,562	2,076	2,188	4,844	10,650	10,084	9,328	7,091
Water Year Types[b]													
Wet (32%)	9,345	10,117	8,867	7,695	9,241	9,030	2,847	3,294	7,386	11,377	11,461	10,853	8,459
Above Normal (15%)	8,395	8,039	9,033	6,447	7,231	7,913	1,819	1,675	6,033	10,665	11,177	10,304	7,394
Below Normal (17%)	8,618	8,849	9,268	6,281	6,879	6,933	1,736	1,667	4,295	11,188	10,742	9,650	7,175
Dry (22%)	7,721	7,916	8,841	6,286	5,773	4,243	1,718	1,765	2,907	11,061	10,726	8,999	6,496
Critical (15%)	7,049	5,845	7,453	5,411	4,613	2,910	1,595	1,545	1,692	7,815	4,278	5,169	4,615

Alternative 2D (ELT)

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	7,610	11,003	14,495	14,494	14,538	12,538	10,981	12,272	13,919	13,441	13,300	8,443	10,607
20%	6,217	9,108	11,404	14,078	12,711	11,522	10,009	10,553	12,453	13,202	12,334	7,524	9,272
30%	5,233	7,538	10,723	11,650	11,518	10,552	8,414	7,691	11,003	11,634	9,699	6,920	8,723
40%	4,879	6,291	10,388	9,001	11,241	9,711	6,919	5,252	9,564	10,767	8,654	6,361	8,226
50%	4,612	5,460	9,955	7,261	9,849	9,143	4,847	3,743	6,950	9,503	7,975	6,014	7,628
60%	4,232	4,590	8,766	6,585	7,953	8,317	3,614	3,046	4,458	8,800	7,218	4,928	7,191
70%	3,862	4,116	8,159	5,746	6,429	6,569	2,994	2,539	3,298	7,320	6,138	4,659	6,140
80%	3,389	2,274	7,421	4,843	5,658	5,198	2,256	2,178	2,303	5,196	4,426	4,035	5,258
90%	2,692	1,175	6,282	2,387	4,631	3,467	2,022	1,843	1,728	3,802	2,965	3,688	4,158
Long Term													
Full Simulation Period[a]	4,924	5,910	9,613	8,401	9,380	8,537	6,028	5,763	7,324	9,170	8,158	5,964	7,431
Water Year Types[b]													
Wet (32%)	5,926	6,827	11,347	11,873	11,863	10,762	9,020	9,512	10,308	10,966	10,537	6,039	9,582
Above Normal (15%)	4,106	6,271	9,323	9,452	10,416	11,259	8,114	7,783	10,291	10,384	10,199	5,922	8,627
Below Normal (17%)	4,449	5,745	9,717	7,024	10,262	8,489	4,992	4,073	8,295	10,737	9,495	6,917	7,516
Dry (22%)	4,630	5,464	8,904	5,997	7,374	7,016	3,713	3,086	4,124	7,978	5,650	6,140	5,840
Critical (15%)	4,561	4,426	7,089	5,043	4,943	3,332	2,142	1,611	1,559	4,024	3,165	4,468	3,863

Alternative 2D (ELT) minus Existing Condition

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	-3,434	69	3,178	5,562	3,759	2,722	7,741	8,891	4,887	1,846	1,575	-2,715	1,896
20%	-4,750	-1,808	169	6,329	3,384	2,388	7,733	8,256	5,217	1,648	649	-3,613	874
30%	-5,156	-3,366	735	4,767	3,261	1,905	6,359	5,845	5,535	132	-1,970	-4,121	688
40%	-4,702	-3,826	1,188	2,202	3,533	2,328	5,078	3,592	4,439	-658	-2,898	-3,984	593
50%	-4,360	-3,592	1,455	826	2,995	2,538	3,133	2,173	2,481	-1,881	-3,486	-3,877	368
60%	-3,472	-3,784	762	220	1,355	2,723	2,007	1,546	952	-2,484	-4,131	-4,511	199
70%	-3,318	-3,096	520	-159	459	1,765	1,494	1,039	219	-3,755	-4,920	-4,370	-473
80%	-2,750	-3,976	325	-210	680	685	756	678	-483	-5,201	-4,534	-4,183	-992
90%	-2,155	-3,485	97	-2,073	808	1,207	522	343	130	-5,184	-1,397	-1,309	-603
Long Term													
Full Simulation Period[a]	-3,466	-2,577	866	1,774	2,275	1,975	3,953	3,576	2,480	-1,480	-1,926	-3,364	340
Water Year Types[b]													
Wet (32%)	-3,419	-3,290	2,481	4,178	2,622	1,732	6,173	6,217	2,922	-411	-924	-4,814	1,122
Above Normal (15%)	-4,288	-1,768	290	3,005	3,185	3,346	6,295	6,107	4,259	-282	-979	-4,382	1,232
Below Normal (17%)	-4,169	-3,104	449	743	3,383	1,556	3,256	2,406	4,000	-451	-1,247	-2,733	341
Dry (22%)	-3,090	-2,451	63	-289	1,602	2,772	1,996	1,321	1,217	-3,083	-5,076	-2,859	-657
Critical (15%)	-2,488	-1,419	-364	-368	330	422	547	66	-133	-3,791	-1,113	-702	-751

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-49-1-3. Total Delta Exports, Monthly Delivery Rate

Existing Condition

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	11,044	10,934	11,317	8,932	10,779	9,816	3,240	3,381	9,032	11,595	11,725	11,158	8,711
20%	10,967	10,917	11,235	7,749	9,327	9,134	2,276	2,297	7,236	11,555	11,685	11,137	8,397
30%	10,389	10,903	9,988	6,883	8,257	8,647	2,055	1,847	5,468	11,502	11,669	11,041	8,035
40%	9,581	10,117	9,200	6,799	7,707	7,383	1,842	1,660	5,125	11,426	11,551	10,345	7,633
50%	8,972	9,052	8,500	6,435	6,855	6,604	1,714	1,570	4,469	11,384	11,461	9,891	7,261
60%	7,704	8,374	8,004	6,365	6,598	5,594	1,607	1,500	3,506	11,284	11,350	9,439	6,991
70%	7,180	7,212	7,638	5,905	5,969	4,804	1,500	1,500	3,080	11,076	11,058	9,029	6,612
80%	6,139	6,249	7,096	5,053	4,978	4,513	1,500	1,500	2,787	10,397	8,961	8,218	6,250
90%	4,847	4,660	6,185	4,460	3,823	2,260	1,500	1,500	1,598	8,986	4,363	4,996	4,761
Long Term													
Full Simulation Period[a]	8,389	8,488	8,747	6,627	7,105	6,562	2,076	2,188	4,844	10,650	10,084	9,328	7,091
Water Year Types[b]													
Wet (32%)	9,345	10,117	8,867	7,695	9,241	9,030	2,847	3,294	7,386	11,377	11,461	10,853	8,459
Above Normal (15%)	8,395	8,039	9,033	6,447	7,231	7,913	1,819	1,675	6,033	10,665	11,177	10,304	7,394
Below Normal (17%)	8,618	8,849	9,268	6,281	6,879	6,933	1,736	1,667	4,295	11,188	10,742	9,650	7,175
Dry (22%)	7,721	7,916	8,841	6,286	5,773	4,243	1,718	1,765	2,907	11,061	10,726	8,999	6,496
Critical (15%)	7,049	5,845	7,453	5,411	4,613	2,910	1,595	1,545	1,692	7,815	4,278	5,169	4,615

Alternative 4A (ELT)

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	6,973	10,734	12,487	13,818	13,314	11,287	3,499	3,658	10,581	14,467	13,848	9,780	9,129
20%	6,252	8,960	11,071	12,674	11,839	10,457	2,489	2,384	9,817	13,473	12,627	7,389	8,210
30%	5,429	7,418	10,560	9,769	11,264	10,080	2,250	1,969	9,295	12,718	11,717	6,958	7,901
40%	4,952	6,142	10,175	8,131	10,441	9,286	2,037	1,760	8,265	11,726	9,212	6,656	7,254
50%	4,780	5,516	9,492	7,316	9,452	8,579	1,884	1,620	6,712	10,910	7,933	6,194	6,852
60%	4,495	4,793	8,600	6,480	7,734	7,863	1,732	1,491	4,897	10,151	7,175	5,583	6,511
70%	4,023	4,175	7,900	5,720	6,077	6,396	1,606	1,422	3,753	9,399	6,075	5,293	5,902
80%	3,464	2,347	7,308	4,347	5,655	5,176	1,442	1,287	2,412	7,941	5,223	4,581	5,317
90%	2,644	1,671	5,583	2,471	4,621	3,450	1,330	1,206	2,111	4,548	4,144	4,248	4,080
Long Term													
Full Simulation Period[a]	4,924	5,865	9,273	7,882	8,878	7,995	2,255	2,367	6,562	10,300	8,649	6,494	6,787
Water Year Types[b]													
Wet (32%)	5,929	6,836	10,663	10,916	10,960	10,082	2,976	3,819	9,156	12,556	11,491	7,207	8,549
Above Normal (15%)	3,898	6,070	9,266	9,106	10,513	9,828	1,836	1,739	8,046	11,694	11,096	7,104	7,516
Below Normal (17%)	4,892	5,822	9,584	6,319	9,459	8,306	1,946	1,715	7,098	11,384	8,620	6,887	6,836
Dry (22%)	4,564	5,390	8,634	5,835	7,008	6,714	2,143	1,819	4,618	9,309	6,367	6,069	5,706
Critical (15%)	4,347	4,317	6,864	4,976	4,858	3,199	1,638	1,431	1,750	4,243	3,502	4,516	3,803

Alternative 4A (ELT) minus Existing Condition

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	-4,071	-200	1,170	4,886	2,535	1,471	259	276	1,549	2,872	2,122	-1,378	418
20%	-4,715	-1,956	-163	4,925	2,512	1,322	213	88	2,581	1,918	942	-3,748	-187
30%	-4,961	-3,486	571	2,886	3,007	1,433	196	123	3,826	1,217	48	-4,083	-134
40%	-4,630	-3,976	975	1,333	2,734	1,903	196	100	3,140	300	-2,339	-3,689	-379
50%	-4,192	-3,536	991	881	2,597	1,975	169	51	2,243	-475	-3,528	-3,697	-409
60%	-3,209	-3,581	596	114	1,136	2,269	125	-9	1,391	-1,133	-4,174	-3,856	-480
70%	-3,157	-3,037	262	-185	108	1,592	106	-78	674	-1,676	-4,983	-3,736	-710
80%	-2,675	-3,902	212	-705	677	663	-58	-213	-374	-2,457	-3,738	-3,637	-933
90%	-2,203	-2,989	-602	-1,989	798	1,190	-170	-294	513	-4,438	-219	-748	-681
Long Term													
Full Simulation Period[a]	-3,466	-2,623	526	1,254	1,773	1,433	179	179	1,718	-349	-1,435	-2,835	-304
Water Year Types[b]													
Wet (32%)	-3,416	-3,281	1,797	3,221	1,719	1,051	129	525	1,770	1,180	29	-3,646	90
Above Normal (15%)	-4,497	-1,969	233	2,659	3,281	1,915	18	64	2,014	1,028	-82	-3,201	122
Below Normal (17%)	-3,726	-3,027	315	37	2,579	1,373	209	48	2,803	196	-2,122	-2,763	-340
Dry (22%)	-3,157	-2,525	-207	-451	1,235	2,471	426	54	1,711	-1,752	-4,359	-2,930	-790
Critical (15%)	-2,702	-1,529	-589	-435	245	289	43	-114	58	-3,572	-776	-654	-811

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-49-1-4. Total Delta Exports, Monthly Delivery Rate

Existing Condition

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	11,044	10,934	11,317	8,932	10,779	9,816	3,240	3,381	9,032	11,595	11,725	11,158	8,711
20%	10,967	10,917	11,235	7,749	9,327	9,134	2,276	2,297	7,236	11,555	11,685	11,137	8,397
30%	10,389	10,903	9,988	6,883	8,257	8,647	2,055	1,847	5,468	11,502	11,669	11,041	8,035
40%	9,581	10,117	9,200	6,799	7,707	7,383	1,842	1,660	5,125	11,426	11,551	10,345	7,633
50%	8,972	9,052	8,500	6,435	6,855	6,604	1,714	1,570	4,469	11,384	11,461	9,891	7,261
60%	7,704	8,374	8,004	6,365	6,598	5,594	1,607	1,500	3,506	11,284	11,350	9,439	6,991
70%	7,180	7,212	7,638	5,905	5,969	4,804	1,500	1,500	3,080	11,076	11,058	9,029	6,612
80%	6,139	6,249	7,096	5,053	4,978	4,513	1,500	1,500	2,787	10,397	8,961	8,218	6,250
90%	4,847	4,660	6,185	4,460	3,823	2,260	1,500	1,500	1,598	8,986	4,363	4,996	4,761
Long Term													
Full Simulation Period[a]	8,389	8,488	8,747	6,627	7,105	6,562	2,076	2,188	4,844	10,650	10,084	9,328	7,091
Water Year Types[b]													
Wet (32%)	9,345	10,117	8,867	7,695	9,241	9,030	2,847	3,294	7,386	11,377	11,461	10,853	8,459
Above Normal (15%)	8,395	8,039	9,033	6,447	7,231	7,913	1,819	1,675	6,033	10,665	11,177	10,304	7,394
Below Normal (17%)	8,618	8,849	9,268	6,281	6,879	6,933	1,736	1,667	4,295	11,188	10,742	9,650	7,175
Dry (22%)	7,721	7,916	8,841	6,286	5,773	4,243	1,718	1,765	2,907	11,061	10,726	8,999	6,496
Critical (15%)	7,049	5,845	7,453	5,411	4,613	2,910	1,595	1,545	1,692	7,815	4,278	5,169	4,615

Alternative 5A (ELT)

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	8,506	11,633	12,549	11,773	11,693	12,276	6,377	6,473	10,453	14,217	14,444	8,775	9,372
20%	7,720	9,179	12,013	10,368	11,075	11,239	5,148	4,565	8,643	13,424	13,437	7,410	8,678
30%	6,541	7,513	11,178	8,706	10,173	10,034	4,765	4,385	8,159	13,140	12,574	6,816	8,115
40%	6,046	6,066	10,836	8,203	9,104	9,553	4,500	3,823	7,258	12,049	11,264	6,144	7,759
50%	5,745	5,341	10,010	7,567	8,229	8,621	3,965	3,261	6,543	11,338	9,686	5,308	7,392
60%	5,478	4,463	9,450	7,143	7,488	7,163	3,191	2,918	5,701	10,993	8,476	4,845	7,027
70%	4,890	4,041	8,308	6,958	6,686	5,941	2,661	2,478	4,756	9,680	6,851	4,321	6,154
80%	4,390	2,254	7,550	6,485	5,895	4,868	2,486	2,102	2,147	8,704	4,057	3,604	5,704
90%	4,099	1,875	6,247	5,444	4,483	3,564	1,852	1,737	1,562	2,462	2,523	2,086	4,097
Long Term													
Full Simulation Period[a]	6,027	5,958	9,618	8,110	8,399	8,100	3,992	3,794	6,329	10,425	9,125	5,592	7,122
Water Year Types[b]													
Wet (32%)	6,771	7,125	10,550	10,298	11,093	10,994	5,563	5,951	9,543	12,332	11,745	5,387	8,946
Above Normal (15%)	5,257	6,191	9,995	8,294	8,899	9,824	4,529	4,251	8,112	11,168	12,208	5,455	7,849
Below Normal (17%)	6,018	5,861	9,838	7,431	7,931	8,507	3,546	2,957	6,001	11,454	10,345	6,648	7,211
Dry (22%)	5,593	5,242	9,642	6,907	6,847	5,707	3,106	2,540	3,926	10,967	6,553	5,917	6,079
Critical (15%)	5,842	4,386	6,929	5,783	4,938	3,220	1,899	1,522	1,569	3,537	2,801	4,457	3,907

Alternative 5A (ELT) minus Existing Condition

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	-2,538	698	1,232	2,841	914	2,460	3,137	3,092	1,421	2,622	2,719	-2,383	661
20%	-3,247	-1,738	778	2,619	1,747	2,105	2,872	2,268	1,407	1,869	1,752	-3,727	281
30%	-3,848	-3,390	1,189	1,823	1,916	1,387	2,710	2,539	2,691	1,638	906	-4,225	80
40%	-3,535	-4,052	1,637	1,404	1,396	2,170	2,658	2,163	2,133	623	-287	-4,201	125
50%	-3,227	-3,711	1,510	1,132	1,375	2,017	2,250	1,691	2,074	-46	-1,775	-4,584	131
60%	-2,226	-3,911	1,446	778	890	1,569	1,584	1,418	2,195	-291	-2,873	-4,595	36
70%	-2,290	-3,171	669	1,053	716	1,137	1,161	978	1,676	-1,396	-4,207	-4,708	-458
80%	-1,749	-3,996	453	1,432	917	355	986	602	-639	-1,693	-4,904	-4,613	-546
90%	-748	-2,785	62	984	660	1,304	352	237	-35	-6,524	-1,839	-2,910	-664
Long Term													
Full Simulation Period[a]	-2,363	-2,530	871	1,483	1,294	1,538	1,916	1,606	1,485	-225	-959	-3,736	32
Water Year Types[b]													
Wet (32%)	-2,573	-2,992	1,684	2,603	1,852	1,963	2,716	2,656	2,157	955	284	-5,466	487
Above Normal (15%)	-3,138	-1,848	962	1,847	1,667	1,912	2,710	2,575	2,080	503	1,031	-4,849	454
Below Normal (17%)	-2,600	-2,988	570	1,150	1,052	1,574	1,809	1,290	1,707	266	-397	-3,002	36
Dry (22%)	-2,128	-2,674	801	621	1,074	1,463	1,388	776	1,019	-94	-4,173	-3,082	-417
Critical (15%)	-1,207	-1,459	-524	372	325	310	305	-23	-123	-4,278	-1,476	-712	-708

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-49-1-5. Total Delta Exports, Monthly Delivery Rate

No Action Alternative (ELT)

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	8,224	10,751	11,696	9,904	10,560	10,610	3,493	3,654	8,309	11,605	11,780	11,280	8,255
20%	6,666	8,939	11,081	8,122	9,357	9,346	2,489	2,333	5,888	11,551	11,780	11,071	7,710
30%	6,465	7,699	10,434	6,960	8,207	8,668	2,159	1,922	5,301	11,329	11,780	10,319	7,456
40%	6,093	6,777	9,743	6,780	7,613	7,170	1,924	1,765	4,834	11,157	11,630	9,461	7,128
50%	5,732	6,069	8,646	6,579	6,785	6,520	1,764	1,621	3,726	10,812	11,511	9,053	6,632
60%	5,457	5,690	8,050	6,390	6,605	5,412	1,631	1,507	3,214	9,952	11,100	8,610	6,134
70%	5,043	5,176	7,560	6,027	5,752	4,602	1,506	1,500	2,883	9,256	8,466	6,741	5,914
80%	4,481	4,787	7,218	5,086	4,850	4,321	1,500	1,500	1,682	8,038	7,655	4,787	5,429
90%	3,972	4,416	5,675	4,245	3,769	2,180	1,500	1,500	1,442	6,713	1,979	4,510	4,422
Long Term													
Full Simulation Period[a]	5,881	6,750	8,837	6,738	7,164	6,561	2,181	2,302	4,423	9,659	9,425	8,318	6,520
Water Year Types[b]													
Wet (32%)	6,651	8,075	9,179	8,155	9,608	9,468	2,948	3,555	6,921	10,806	11,727	9,790	8,074
Above Normal (15%)	5,076	6,913	9,438	6,447	7,303	7,728	1,904	1,832	5,542	9,418	11,542	9,854	6,917
Below Normal (17%)	5,779	6,921	9,278	6,397	6,583	6,681	1,881	1,735	3,610	10,610	9,930	9,469	6,573
Dry (22%)	5,626	5,922	9,103	6,363	5,635	4,152	1,956	1,824	2,601	9,985	8,409	6,848	5,702
Critical (15%)	5,522	4,761	6,581	4,917	4,702	2,571	1,484	1,432	1,577	5,818	3,253	4,455	3,923

Alternative 2D (ELT)

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	7,610	11,003	14,495	14,494	14,538	12,538	10,981	12,272	13,919	13,441	13,300	8,443	10,607
20%	6,217	9,108	11,404	14,078	12,711	11,522	10,009	10,553	12,453	13,202	12,334	7,524	9,272
30%	5,233	7,538	10,723	11,650	11,518	10,552	8,414	7,691	11,003	11,634	9,699	6,920	8,723
40%	4,879	6,291	10,388	9,001	11,241	9,711	6,919	5,252	9,564	10,767	8,654	6,361	8,226
50%	4,612	5,460	9,955	7,261	9,849	9,143	4,847	3,743	6,950	9,503	7,975	6,014	7,628
60%	4,232	4,590	8,766	6,585	7,953	8,317	3,614	3,046	4,458	8,800	7,218	4,928	7,191
70%	3,862	4,116	8,159	5,746	6,429	6,569	2,994	2,539	3,298	7,320	6,138	4,659	6,140
80%	3,389	2,274	7,421	4,843	5,658	5,198	2,256	2,178	2,303	5,196	4,426	4,035	5,258
90%	2,692	1,175	6,282	2,387	4,631	3,467	2,022	1,843	1,728	3,802	2,965	3,688	4,158
Long Term													
Full Simulation Period[a]	4,924	5,910	9,613	8,401	9,380	8,537	6,028	5,763	7,324	9,170	8,158	5,964	7,431
Water Year Types[b]													
Wet (32%)	5,926	6,827	11,347	11,873	11,863	10,762	9,020	9,512	10,308	10,966	10,537	6,039	9,582
Above Normal (15%)	4,106	6,271	9,323	9,452	10,416	11,259	8,114	7,783	10,291	10,384	10,199	5,922	8,627
Below Normal (17%)	4,449	5,745	9,717	7,024	10,262	8,489	4,992	4,073	8,295	10,737	9,495	6,917	7,516
Dry (22%)	4,630	5,464	8,904	5,997	7,374	7,016	3,713	3,086	4,124	7,978	5,650	6,140	5,840
Critical (15%)	4,561	4,426	7,089	5,043	4,943	3,332	2,142	1,611	1,559	4,024	3,165	4,468	3,863

Alternative 2D (ELT) minus No Action Alternative (ELT)

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	-614	252	2,799	4,590	3,978	1,928	7,487	8,618	5,609	1,836	1,520	-2,837	2,352
20%	-449	169	322	5,956	3,354	2,176	7,521	8,219	6,565	1,652	554	-3,547	1,561
30%	-1,232	-162	289	4,691	3,310	1,884	6,255	5,769	5,702	305	-2,081	-3,399	1,267
40%	-1,214	-485	645	2,222	3,628	2,541	4,996	3,487	4,730	-390	-2,976	-3,100	1,098
50%	-1,120	-608	1,309	683	3,065	2,623	3,083	2,121	3,224	-1,309	-3,536	-3,039	997
60%	-1,226	-1,100	717	195	1,348	2,904	1,983	1,539	1,244	-1,151	-3,882	-3,681	1,056
70%	-1,181	-1,061	598	-281	676	1,966	1,488	1,039	415	-1,936	-2,329	-2,082	225
80%	-1,092	-2,514	203	-243	808	878	756	678	621	-2,842	-3,229	-752	-171
90%	-1,280	-3,242	607	-1,858	861	1,286	522	343	286	-2,910	986	-822	-263
Long Term													
Full Simulation Period[a]	-958	-840	776	1,664	2,216	1,976	3,847	3,462	2,901	-490	-1,267	-2,354	911
Water Year Types[b]													
Wet (32%)	-725	-1,248	2,168	3,718	2,255	1,294	6,072	5,956	3,387	160	-1,190	-3,752	1,508
Above Normal (15%)	-970	-642	-115	3,005	3,113	3,531	6,209	5,951	4,749	965	-1,344	-3,932	1,710
Below Normal (17%)	-1,330	-1,176	439	627	3,678	1,808	3,111	2,338	4,685	127	-435	-2,552	943
Dry (22%)	-996	-458	-199	-366	1,739	2,864	1,757	1,262	1,524	-2,008	-2,759	-708	138
Critical (15%)	-961	-334	508	126	240	761	658	179	-17	-1,794	-88	13	-59

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-49-1-6. Total Delta Exports, Monthly Delivery Rate

No Action Alternative (ELT)

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	8,224	10,751	11,696	9,904	10,560	10,610	3,493	3,654	8,309	11,605	11,780	11,280	8,255
20%	6,666	8,939	11,081	8,122	9,357	9,346	2,489	2,333	5,888	11,551	11,780	11,071	7,710
30%	6,465	7,699	10,434	6,960	8,207	8,668	2,159	1,922	5,301	11,329	11,780	10,319	7,456
40%	6,093	6,777	9,743	6,780	7,613	7,170	1,924	1,765	4,834	11,157	11,630	9,461	7,128
50%	5,732	6,069	8,646	6,579	6,785	6,520	1,764	1,621	3,726	10,812	11,511	9,053	6,632
60%	5,457	5,690	8,050	6,390	6,605	5,412	1,631	1,507	3,214	9,952	11,100	8,610	6,134
70%	5,043	5,176	7,560	6,027	5,752	4,602	1,506	1,500	2,883	9,256	8,466	6,741	5,914
80%	4,481	4,787	7,218	5,086	4,850	4,321	1,500	1,500	1,682	8,038	7,655	4,787	5,429
90%	3,972	4,416	5,675	4,245	3,769	2,180	1,500	1,500	1,442	6,713	1,979	4,510	4,422
Long Term													
Full Simulation Period[a]	5,881	6,750	8,837	6,738	7,164	6,561	2,181	2,302	4,423	9,659	9,425	8,318	6,520
Water Year Types[b]													
Wet (32%)	6,651	8,075	9,179	8,155	9,608	9,468	2,948	3,555	6,921	10,806	11,727	9,790	8,074
Above Normal (15%)	5,076	6,913	9,438	6,447	7,303	7,728	1,904	1,832	5,542	9,418	11,542	9,854	6,917
Below Normal (17%)	5,779	6,921	9,278	6,397	6,583	6,681	1,881	1,735	3,610	10,610	9,930	9,469	6,573
Dry (22%)	5,626	5,922	9,103	6,363	5,635	4,152	1,956	1,824	2,601	9,985	8,409	6,848	5,702
Critical (15%)	5,522	4,761	6,581	4,917	4,702	2,571	1,484	1,432	1,577	5,818	3,253	4,455	3,923

Alternative 4A (ELT)

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	6,973	10,734	12,487	13,818	13,314	11,287	3,499	3,658	10,581	14,467	13,848	9,780	9,129
20%	6,252	8,960	11,071	12,674	11,839	10,457	2,489	2,384	9,817	13,473	12,627	7,389	8,210
30%	5,429	7,418	10,560	9,769	11,264	10,080	2,250	1,969	9,295	12,718	11,717	6,958	7,901
40%	4,952	6,142	10,175	8,131	10,441	9,286	2,037	1,760	8,265	11,726	9,212	6,656	7,254
50%	4,780	5,516	9,492	7,316	9,452	8,579	1,884	1,620	6,712	10,910	7,933	6,194	6,852
60%	4,495	4,793	8,600	6,480	7,734	7,863	1,732	1,491	4,897	10,151	7,175	5,583	6,511
70%	4,023	4,175	7,900	5,720	6,077	6,396	1,606	1,422	3,753	9,399	6,075	5,293	5,902
80%	3,464	2,347	7,308	4,347	5,655	5,176	1,442	1,287	2,412	7,941	5,223	4,581	5,317
90%	2,644	1,671	5,583	2,471	4,621	3,450	1,330	1,206	2,111	4,548	4,144	4,248	4,080
Long Term													
Full Simulation Period[a]	4,924	5,865	9,273	7,882	8,878	7,995	2,255	2,367	6,562	10,300	8,649	6,494	6,787
Water Year Types[b]													
Wet (32%)	5,929	6,836	10,663	10,916	10,960	10,082	2,976	3,819	9,156	12,556	11,491	7,207	8,549
Above Normal (15%)	3,898	6,070	9,266	9,106	10,513	9,828	1,836	1,739	8,046	11,694	11,096	7,104	7,516
Below Normal (17%)	4,892	5,822	9,584	6,319	9,459	8,306	1,946	1,715	7,098	11,384	8,620	6,887	6,836
Dry (22%)	4,564	5,390	8,634	5,835	7,008	6,714	2,143	1,819	4,618	9,309	6,367	6,069	5,706
Critical (15%)	4,347	4,317	6,864	4,976	4,858	3,199	1,638	1,431	1,750	4,243	3,502	4,516	3,803

Alternative 4A (ELT) minus No Action Alternative (ELT)

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	-1,251	-17	791	3,913	2,754	678	5	4	2,272	2,862	2,068	-1,500	874
20%	-413	21	-10	4,552	2,482	1,110	0	51	3,930	1,923	847	-3,682	500
30%	-1,037	-282	126	2,810	3,057	1,412	91	47	3,993	1,389	-63	-3,361	445
40%	-1,141	-635	432	1,352	2,829	2,116	114	-5	3,431	569	-2,418	-2,805	126
50%	-952	-553	845	737	2,667	2,059	119	-1	2,987	97	-3,578	-2,859	220
60%	-963	-897	550	90	1,128	2,450	101	-15	1,683	199	-3,925	-3,027	377
70%	-1,020	-1,001	340	-307	325	1,793	100	-78	870	143	-2,392	-1,448	-12
80%	-1,018	-2,440	90	-739	805	855	-58	-213	730	-97	-2,432	-206	-112
90%	-1,328	-2,746	-92	-1,774	852	1,270	-170	-294	669	-2,165	2,165	-262	-342
Long Term													
Full Simulation Period[a]	-958	-886	436	1,144	1,714	1,434	73	66	2,139	641	-776	-1,825	267
Water Year Types[b]													
Wet (32%)	-722	-1,239	1,484	2,761	1,352	614	28	264	2,235	1,750	-237	-2,583	476
Above Normal (15%)	-1,179	-843	-172	2,659	3,210	2,100	-68	-93	2,504	2,275	-447	-2,751	600
Below Normal (17%)	-887	-1,100	305	-78	2,875	1,624	65	-20	3,488	774	-1,310	-2,581	263
Dry (22%)	-1,062	-532	-468	-528	1,373	2,562	187	-5	2,017	-676	-2,042	-780	4
Critical (15%)	-1,175	-444	283	59	156	628	154	0	173	-1,575	249	60	-119

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-49-1-7. Total Delta Exports, Monthly Delivery Rate

No Action Alternative (ELT)

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	8,224	10,751	11,696	9,904	10,560	10,610	3,493	3,654	8,309	11,605	11,780	11,280	8,255
20%	6,666	8,939	11,081	8,122	9,357	9,346	2,489	2,333	5,888	11,551	11,780	11,071	7,710
30%	6,465	7,699	10,434	6,960	8,207	8,668	2,159	1,922	5,301	11,329	11,780	10,319	7,456
40%	6,093	6,777	9,743	6,780	7,613	7,170	1,924	1,765	4,834	11,157	11,630	9,461	7,128
50%	5,732	6,069	8,646	6,579	6,785	6,520	1,764	1,621	3,726	10,812	11,511	9,053	6,632
60%	5,457	5,690	8,050	6,390	6,605	5,412	1,631	1,507	3,214	9,952	11,100	8,610	6,134
70%	5,043	5,176	7,560	6,027	5,752	4,602	1,506	1,500	2,883	9,256	8,466	6,741	5,914
80%	4,481	4,787	7,218	5,086	4,850	4,321	1,500	1,500	1,682	8,038	7,655	4,787	5,429
90%	3,972	4,416	5,675	4,245	3,769	2,180	1,500	1,500	1,442	6,713	1,979	4,510	4,422
Long Term													
Full Simulation Period[a]	5,881	6,750	8,837	6,738	7,164	6,561	2,181	2,302	4,423	9,659	9,425	8,318	6,520
Water Year Types[b]													
Wet (32%)	6,651	8,075	9,179	8,155	9,608	9,468	2,948	3,555	6,921	10,806	11,727	9,790	8,074
Above Normal (15%)	5,076	6,913	9,438	6,447	7,303	7,728	1,904	1,832	5,542	9,418	11,542	9,854	6,917
Below Normal (17%)	5,779	6,921	9,278	6,397	6,583	6,681	1,881	1,735	3,610	10,610	9,930	9,469	6,573
Dry (22%)	5,626	5,922	9,103	6,363	5,635	4,152	1,956	1,824	2,601	9,985	8,409	6,848	5,702
Critical (15%)	5,522	4,761	6,581	4,917	4,702	2,571	1,484	1,432	1,577	5,818	3,253	4,455	3,923

Alternative 5A (ELT)

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	8,506	11,633	12,549	11,773	11,693	12,276	6,377	6,473	10,453	14,217	14,444	8,775	9,372
20%	7,720	9,179	12,013	10,368	11,075	11,239	5,148	4,565	8,643	13,424	13,437	7,410	8,678
30%	6,541	7,513	11,178	8,706	10,173	10,034	4,765	4,385	8,159	13,140	12,574	6,816	8,115
40%	6,046	6,066	10,836	8,203	9,104	9,553	4,500	3,823	7,258	12,049	11,264	6,144	7,759
50%	5,745	5,341	10,010	7,567	8,229	8,621	3,965	3,261	6,543	11,338	9,686	5,308	7,392
60%	5,478	4,463	9,450	7,143	7,488	7,163	3,191	2,918	5,701	10,993	8,476	4,845	7,027
70%	4,890	4,041	8,308	6,958	6,686	5,941	2,661	2,478	4,756	9,680	6,851	4,321	6,154
80%	4,390	2,254	7,550	6,485	5,895	4,868	2,486	2,102	2,147	8,704	4,057	3,604	5,704
90%	4,099	1,875	6,247	5,444	4,483	3,564	1,852	1,737	1,562	2,462	2,523	2,086	4,097
Long Term													
Full Simulation Period[a]	6,027	5,958	9,618	8,110	8,399	8,100	3,992	3,794	6,329	10,425	9,125	5,592	7,122
Water Year Types[b]													
Wet (32%)	6,771	7,125	10,550	10,298	11,093	10,994	5,563	5,951	9,543	12,332	11,745	5,387	8,946
Above Normal (15%)	5,257	6,191	9,995	8,294	8,899	9,824	4,529	4,251	8,112	11,168	12,208	5,455	7,849
Below Normal (17%)	6,018	5,861	9,838	7,431	7,931	8,507	3,546	2,957	6,001	11,454	10,345	6,648	7,211
Dry (22%)	5,593	5,242	9,642	6,907	6,847	5,707	3,106	2,540	3,926	10,967	6,553	5,917	6,079
Critical (15%)	5,842	4,386	6,929	5,783	4,938	3,220	1,899	1,522	1,569	3,537	2,801	4,457	3,907

Alternative 5A (ELT) minus No Action Alternative (ELT)

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	282	881	853	1,869	1,133	1,667	2,884	2,819	2,144	2,612	2,664	**-2,505**	1,117
20%	1,055	239	931	2,246	1,718	1,893	2,659	2,231	2,755	1,873	1,657	**-3,662**	968
30%	76	**-187**	744	1,747	1,966	1,366	2,606	2,463	2,858	1,811	794	**-3,503**	659
40%	**-46**	**-711**	1,094	1,423	1,491	2,383	2,576	2,058	2,424	892	**-366**	**-3,317**	630
50%	13	**-728**	1,364	989	1,445	2,101	2,200	1,640	2,818	526	**-1,825**	**-3,745**	760
60%	21	**-1,227**	1,400	753	883	1,750	1,560	1,411	2,487	1,042	**-2,624**	**-3,765**	893
70%	**-153**	**-1,135**	747	932	933	1,339	1,155	978	1,873	423	**-1,615**	**-2,420**	240
80%	**-91**	**-2,533**	332	1,398	1,045	547	986	602	465	666	**-3,598**	**-1,182**	275
90%	127	**-2,542**	572	1,199	713	1,383	352	237	120	**-4,251**	545	**-2,424**	**-325**
Long Term													
Full Simulation Period[a]	145	**-792**	781	1,373	1,235	1,539	1,811	1,493	1,906	766	**-299**	**-2,726**	602
Water Year Types[b]													
Wet (32%)	120	**-950**	1,371	2,143	1,485	1,526	2,615	2,395	2,622	1,526	18	**-4,404**	872
Above Normal (15%)	180	**-722**	557	1,847	1,596	2,097	2,625	2,419	2,570	1,750	666	**-4,399**	932
Below Normal (17%)	239	**-1,060**	560	1,034	1,347	1,826	1,665	1,222	2,391	844	415	**-2,820**	639
Dry (22%)	**-33**	**-680**	539	544	1,212	1,555	1,150	717	1,326	982	**-1,857**	**-932**	377
Critical (15%)	320	**-375**	349	866	236	649	415	90	**-8**	**-2,281**	**-451**	2	**-16**

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-49-2-1. Total Delta Exports, Monthly Delivery Volume

Existing Condition

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	679	651	696	549	605	604	193	208	537	713	721	664	6,310
20%	674	650	691	476	519	562	135	141	431	710	718	663	6,088
30%	639	649	614	423	459	532	122	114	325	707	717	657	5,824
40%	589	602	566	418	431	454	110	102	305	703	710	616	5,540
50%	552	539	523	396	387	406	102	97	266	700	705	589	5,264
60%	474	498	492	391	367	344	96	92	209	694	698	562	5,088
70%	441	429	470	363	332	295	89	92	183	681	680	537	4,799
80%	377	372	436	311	276	277	89	92	166	639	551	489	4,541
90%	298	277	380	274	212	139	89	92	95	553	268	297	3,463
Long Term													
Full Simulation Period[a]	516	505	538	408	398	403	124	135	288	655	620	555	5,144
Water Year Types[b]													
Wet (32%)	575	602	545	473	516	555	169	203	440	700	705	646	6,128
Above Normal (15%)	516	478	555	396	406	487	108	103	359	656	687	613	5,366
Below Normal (17%)	530	527	570	386	385	426	103	102	256	688	660	574	5,208
Dry (22%)	475	471	544	387	323	261	102	109	173	680	660	535	4,719
Critical (15%)	433	348	458	333	259	179	95	95	101	481	263	308	3,352

No Action Alternative (ELT)

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	506	640	719	609	606	652	208	225	494	714	724	671	5,990
20%	410	532	681	499	525	575	148	143	350	710	724	659	5,592
30%	398	458	642	428	458	533	128	118	315	697	724	614	5,387
40%	375	403	599	417	423	441	114	109	288	686	715	563	5,158
50%	352	361	532	405	378	401	105	100	222	665	708	539	4,822
60%	336	339	495	393	367	333	97	93	191	612	683	512	4,455
70%	310	308	465	371	320	283	90	92	172	569	521	401	4,304
80%	276	285	444	313	269	266	89	92	100	494	471	285	3,946
90%	244	263	349	261	209	134	89	92	86	413	122	268	3,200
Long Term													
Full Simulation Period[a]	362	402	543	414	401	403	130	142	263	594	580	495	4,728
Water Year Types[b]													
Wet (32%)	409	481	564	501	537	582	175	219	412	664	721	583	5,848
Above Normal (15%)	312	411	580	396	410	475	113	113	330	579	710	586	5,017
Below Normal (17%)	355	412	571	393	368	411	112	107	215	652	611	563	4,770
Dry (22%)	346	352	560	391	316	255	116	112	155	614	517	408	4,142
Critical (15%)	340	283	405	302	264	158	88	88	94	358	200	265	2,845

No Action Alternative (ELT) minus Existing Condition

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	-173	-11	23	60	2	49	15	17	-43	1	3	7	-320
20%	-264	-118	-9	23	7	13	13	2	-80	0	6	-4	-496
30%	-241	-191	27	5	-1	1	6	5	-10	-11	7	-43	-436
40%	-215	-199	33	-1	-8	-13	5	6	-17	-17	5	-53	-381
50%	-199	-178	9	9	-9	-5	3	3	-44	-35	3	-50	-442
60%	-138	-160	3	2	0	-11	1	0	-17	-82	-15	-49	-633
70%	-131	-121	-5	7	-11	-12	0	0	-12	-112	-159	-136	-495
80%	-102	-87	7	2	-7	-12	0	0	-66	-145	-80	-204	-594
90%	-54	-14	-31	-13	-3	-5	0	0	-9	-140	-147	-29	-263
Long Term													
Full Simulation Period[a]	-154	-103	6	7	3	0	6	7	-25	-61	-41	-60	-415
Water Year Types[b]													
Wet (32%)	-166	-121	19	28	20	27	6	16	-28	-35	16	-63	-280
Above Normal (15%)	-204	-67	25	0	4	-11	5	10	-29	-77	22	-27	-349
Below Normal (17%)	-175	-115	1	7	-17	-15	9	4	-41	-36	-50	-11	-438
Dry (22%)	-129	-119	16	5	-8	-6	14	4	-18	-66	-142	-128	-577
Critical (15%)	-94	-65	-54	-30	5	-21	-7	-7	-7	-123	-63	-42	-507

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-49-2-2. Total Delta Exports, Monthly Delivery Volume

Existing Condition

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	679	651	696	549	605	604	193	208	537	713	721	664	6,310
20%	674	650	691	476	519	562	135	141	431	710	718	663	6,088
30%	639	649	614	423	459	532	122	114	325	707	717	657	5,824
40%	589	602	566	418	431	454	110	102	305	703	710	616	5,540
50%	552	539	523	396	387	406	102	97	266	700	705	589	5,264
60%	474	498	492	391	367	344	96	92	209	694	698	562	5,088
70%	441	429	470	363	332	295	89	92	183	681	680	537	4,799
80%	377	372	436	311	276	277	89	92	166	639	551	489	4,541
90%	298	277	380	274	212	139	89	92	95	553	268	297	3,463
Long Term													
Full Simulation Period[a]	516	505	538	408	398	403	124	135	288	655	620	555	5,144
Water Year Types[b]													
Wet (32%)	575	602	545	473	516	555	169	203	440	700	705	646	6,128
Above Normal (15%)	516	478	555	396	406	487	108	103	359	656	687	613	5,366
Below Normal (17%)	530	527	570	386	385	426	103	102	256	688	660	574	5,208
Dry (22%)	475	471	544	387	323	261	102	109	173	680	660	535	4,719
Critical (15%)	433	348	458	333	259	179	95	95	101	481	263	308	3,352

Alternative 2D (ELT)

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	468	655	891	891	808	771	653	755	828	826	818	502	7,682
20%	382	542	701	866	706	708	596	649	741	812	758	448	6,728
30%	322	449	659	716	640	649	501	473	655	715	596	412	6,315
40%	300	374	639	553	624	597	412	323	569	662	532	378	5,955
50%	284	325	612	446	554	562	288	230	414	584	490	358	5,515
60%	260	273	539	405	448	511	215	187	265	541	444	293	5,211
70%	237	245	502	353	357	404	178	156	196	450	377	277	4,466
80%	208	135	456	298	319	320	134	134	137	320	272	240	3,814
90%	166	70	386	147	258	213	120	113	103	234	182	219	3,016
Long Term													
Full Simulation Period[a]	303	352	591	517	525	525	359	354	436	564	502	355	5,381
Water Year Types[b]													
Wet (32%)	364	406	698	730	663	662	537	585	613	674	648	359	6,939
Above Normal (15%)	252	373	573	581	586	692	483	479	612	638	627	352	6,250
Below Normal (17%)	274	342	597	432	574	522	297	250	494	660	584	412	5,438
Dry (22%)	285	325	547	369	413	431	221	190	245	491	347	365	4,230
Critical (15%)	280	263	436	310	278	205	127	99	93	247	195	266	2,799

Alternative 2D (ELT) minus Existing Condition

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	-211	4	195	342	203	167	461	547	291	114	97	-162	1,372
20%	-292	-108	10	389	187	147	460	508	310	101	40	-215	641
30%	-317	-200	45	293	182	117	378	359	329	8	-121	-245	491
40%	-289	-228	73	135	193	143	302	221	264	-40	-178	-237	415
50%	-268	-214	89	51	167	156	186	134	148	-116	-214	-231	251
60%	-213	-225	47	14	81	167	119	95	57	-153	-254	-268	124
70%	-204	-184	32	-10	25	108	89	64	13	-231	-303	-260	-333
80%	-169	-237	20	-13	43	42	45	42	-29	-320	-279	-249	-727
90%	-133	-207	6	-127	46	74	31	21	8	-319	-86	-78	-448
Long Term													
Full Simulation Period[a]	-213	-153	53	109	127	121	235	220	148	-91	-118	-200	238
Water Year Types[b]													
Wet (32%)	-210	-196	153	257	146	106	367	382	174	-25	-57	-286	811
Above Normal (15%)	-264	-105	18	185	179	206	375	376	253	-17	-60	-261	884
Below Normal (17%)	-256	-185	28	46	189	96	194	148	238	-28	-77	-163	230
Dry (22%)	-190	-146	4	-18	90	170	119	81	72	-190	-312	-170	-489
Critical (15%)	-153	-84	-22	-23	19	26	33	4	-8	-233	-68	-42	-552

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-49-2-3. Total Delta Exports, Monthly Delivery Volume

Existing Condition

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	679	651	696	549	605	604	193	208	537	713	721	664	6,310
20%	674	650	691	476	519	562	135	141	431	710	718	663	6,088
30%	639	649	614	423	459	532	122	114	325	707	717	657	5,824
40%	589	602	566	418	431	454	110	102	305	703	710	616	5,540
50%	552	539	523	396	387	406	102	97	266	700	705	589	5,264
60%	474	498	492	391	367	344	96	92	209	694	698	562	5,088
70%	441	429	470	363	332	295	89	92	183	681	680	537	4,799
80%	377	372	436	311	276	277	89	92	166	639	551	489	4,541
90%	298	277	380	274	212	139	89	92	95	553	268	297	3,463
Long Term													
Full Simulation Period[a]	516	505	538	408	398	403	124	135	288	655	620	555	5,144
Water Year Types[b]													
Wet (32%)	575	602	545	473	516	555	169	203	440	700	705	646	6,128
Above Normal (15%)	516	478	555	396	406	487	108	103	359	656	687	613	5,366
Below Normal (17%)	530	527	570	386	385	426	103	102	256	688	660	574	5,208
Dry (22%)	475	471	544	387	323	261	102	109	173	680	660	535	4,719
Critical (15%)	433	348	458	333	259	179	95	95	101	481	263	308	3,352

Alternative 4A (ELT)

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	429	639	768	850	739	694	208	225	630	890	851	582	6,621
20%	384	533	681	779	658	643	148	147	584	828	776	440	5,959
30%	334	441	649	601	626	620	134	121	553	782	720	414	5,737
40%	304	365	626	500	580	571	121	108	492	721	566	396	5,228
50%	294	328	584	450	525	528	112	100	399	671	488	369	4,959
60%	276	285	529	398	445	483	103	92	291	624	441	332	4,725
70%	247	248	486	352	339	393	96	87	223	578	374	315	4,295
80%	213	140	449	267	317	318	86	79	144	488	321	273	3,835
90%	163	99	343	152	266	212	79	74	126	280	255	253	2,959
Long Term													
Full Simulation Period[a]	303	349	570	485	497	492	134	146	390	633	532	386	4,917
Water Year Types[b]													
Wet (32%)	365	407	656	671	612	620	177	235	545	772	707	429	6,194
Above Normal (15%)	240	361	570	560	591	604	109	107	479	719	682	423	5,445
Below Normal (17%)	301	346	589	389	530	511	116	105	422	700	530	410	4,949
Dry (22%)	281	321	531	359	392	413	128	112	275	572	391	361	4,135
Critical (15%)	267	257	422	306	273	197	97	88	104	261	215	269	2,757

Alternative 4A (ELT) minus Existing Condition

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	-250	-12	72	300	135	90	15	17	92	177	130	-82	311
20%	-290	-116	-10	303	139	81	13	5	154	118	58	-223	-129
30%	-305	-207	35	177	167	88	12	8	228	75	3	-243	-86
40%	-285	-237	60	82	149	117	12	6	187	18	-144	-220	-311
50%	-258	-210	61	54	138	121	10	3	133	-29	-217	-220	-305
60%	-197	-213	37	7	78	140	7	-1	83	-70	-257	-229	-363
70%	-194	-181	16	-11	7	98	6	-5	40	-103	-306	-222	-505
80%	-164	-232	13	-43	40	41	-3	-13	-22	-151	-230	-216	-705
90%	-135	-178	-37	-122	53	73	-10	-18	31	-273	-13	-45	-504
Long Term													
Full Simulation Period[a]	-213	-156	32	77	99	88	11	11	102	-21	-88	-169	-227
Water Year Types[b]													
Wet (32%)	-210	-195	110	198	96	65	8	32	105	73	2	-217	67
Above Normal (15%)	-277	-117	14	163	185	118	1	4	120	63	-5	-190	79
Below Normal (17%)	-229	-180	19	2	145	84	12	3	167	12	-130	-164	-259
Dry (22%)	-194	-150	-13	-28	69	152	25	3	102	-108	-268	-174	-583
Critical (15%)	-166	-91	-36	-27	14	18	3	-7	3	-220	-48	-39	-595

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-49-2-4. Total Delta Exports, Monthly Delivery Volume

Existing Condition

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	679	651	696	549	605	604	193	208	537	713	721	664	6,310
20%	674	650	691	476	519	562	135	141	431	710	718	663	6,088
30%	639	649	614	423	459	532	122	114	325	707	717	657	5,824
40%	589	602	566	418	431	454	110	102	305	703	710	616	5,540
50%	552	539	523	396	387	406	102	97	266	700	705	589	5,264
60%	474	498	492	391	367	344	96	92	209	694	698	562	5,088
70%	441	429	470	363	332	295	89	92	183	681	680	537	4,799
80%	377	372	436	311	276	277	89	92	166	639	551	489	4,541
90%	298	277	380	274	212	139	89	92	95	553	268	297	3,463
Long Term													
Full Simulation Period[a]	516	505	538	408	398	403	124	135	288	655	620	555	5,144
Water Year Types[b]													
Wet (32%)	575	602	545	473	516	555	169	203	440	700	705	646	6,128
Above Normal (15%)	516	478	555	396	406	487	108	103	359	656	687	613	5,366
Below Normal (17%)	530	527	570	386	385	426	103	102	256	688	660	574	5,208
Dry (22%)	475	471	544	387	323	261	102	109	173	680	660	535	4,719
Critical (15%)	433	348	458	333	259	179	95	95	101	481	263	308	3,352

Alternative 5A (ELT)

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	523	692	772	724	671	755	379	398	622	874	888	522	6,797
20%	475	546	739	638	617	691	306	281	514	825	826	441	6,293
30%	402	447	687	535	574	617	284	270	485	808	773	406	5,888
40%	372	361	666	504	508	587	268	235	432	741	693	366	5,629
50%	353	318	615	465	457	530	236	201	389	697	596	316	5,358
60%	337	266	581	439	419	440	190	179	339	676	521	288	5,100
70%	301	240	511	428	376	365	158	152	283	595	421	257	4,465
80%	270	134	464	399	332	299	148	129	128	535	249	214	4,141
90%	252	112	384	335	250	219	110	107	93	151	155	124	2,970
Long Term													
Full Simulation Period[a]	371	355	591	499	470	498	238	233	377	641	561	333	5,166
Water Year Types[b]													
Wet (32%)	416	424	649	633	619	676	331	366	568	758	722	321	6,483
Above Normal (15%)	323	368	615	510	500	604	269	261	483	687	751	325	5,696
Below Normal (17%)	370	349	605	457	444	523	211	182	357	704	636	396	5,233
Dry (22%)	344	312	593	425	383	351	185	156	234	674	403	352	4,412
Critical (15%)	359	261	426	356	277	198	113	94	93	217	172	265	2,832

Alternative 5A (ELT) minus Existing Condition

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	-156	42	76	175	67	151	187	190	85	161	167	-142	487
20%	-200	-103	48	161	99	129	171	139	84	115	108	-222	206
30%	-237	-202	73	112	115	85	161	156	160	101	56	-251	64
40%	-217	-241	101	86	77	133	158	133	127	38	-18	-250	90
50%	-198	-221	93	70	70	124	134	104	123	-3	-109	-273	94
60%	-137	-233	89	48	52	96	94	87	131	-18	-177	-273	12
70%	-141	-189	41	65	45	70	69	60	100	-86	-259	-280	-334
80%	-108	-238	28	88	56	22	59	37	-38	-104	-302	-275	-400
90%	-46	-166	4	60	38	80	21	15	-2	-401	-113	-173	-493
Long Term													
Full Simulation Period[a]	-145	-151	54	91	72	95	114	99	88	-14	-59	-222	22
Water Year Types[b]													
Wet (32%)	-158	-178	104	160	103	121	162	163	128	59	17	-325	355
Above Normal (15%)	-193	-110	59	114	93	118	161	158	124	31	63	-289	330
Below Normal (17%)	-160	-178	35	71	59	97	108	79	102	16	-24	-179	26
Dry (22%)	-131	-159	49	38	60	90	83	48	61	-6	-257	-183	-307
Critical (15%)	-74	-87	-32	23	19	19	18	-1	-7	-263	-91	-42	-520

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-49-2-5. Total Delta Exports, Monthly Delivery Volume

No Action Alternative (ELT)

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	506	640	719	609	606	652	208	225	494	714	724	671	5,990
20%	410	532	681	499	525	575	148	143	350	710	724	659	5,592
30%	398	458	642	428	458	533	128	118	315	697	724	614	5,387
40%	375	403	599	417	423	441	114	109	288	686	715	563	5,158
50%	352	361	532	405	378	401	105	100	222	665	708	539	4,822
60%	336	339	495	393	367	333	97	93	191	612	683	512	4,455
70%	310	308	465	371	320	283	90	92	172	569	521	401	4,304
80%	276	285	444	313	269	266	89	92	100	494	471	285	3,946
90%	244	263	349	261	209	134	89	92	86	413	122	268	3,200
Long Term													
Full Simulation Period[a]	362	402	543	414	401	403	130	142	263	594	580	495	4,728
Water Year Types[b]													
Wet (32%)	409	481	564	501	537	582	175	219	412	664	721	583	5,848
Above Normal (15%)	312	411	580	396	410	475	113	113	330	579	710	586	5,017
Below Normal (17%)	355	412	571	393	368	411	112	107	215	652	611	563	4,770
Dry (22%)	346	352	560	391	316	255	116	112	155	614	517	408	4,142
Critical (15%)	340	283	405	302	264	158	88	88	94	358	200	265	2,845

Alternative 2D (ELT)

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	468	655	891	891	808	771	653	755	828	826	818	502	7,682
20%	382	542	701	866	706	708	596	649	741	812	758	448	6,728
30%	322	449	659	716	640	649	501	473	655	715	596	412	6,315
40%	300	374	639	553	624	597	412	323	569	662	532	378	5,955
50%	284	325	612	446	554	562	288	230	414	584	490	358	5,515
60%	260	273	539	405	448	511	215	187	265	541	444	293	5,211
70%	237	245	502	353	357	404	178	156	196	450	377	277	4,466
80%	208	135	456	298	319	320	134	134	137	320	272	240	3,814
90%	166	70	386	147	258	213	120	113	103	234	182	219	3,016
Long Term													
Full Simulation Period[a]	303	352	591	517	525	525	359	354	436	564	502	355	5,381
Water Year Types[b]													
Wet (32%)	364	406	698	730	663	662	537	585	613	674	648	359	6,939
Above Normal (15%)	252	373	573	581	586	692	483	479	612	638	627	352	6,250
Below Normal (17%)	274	342	597	432	574	522	297	250	494	660	584	412	5,438
Dry (22%)	285	325	547	369	413	431	221	190	245	491	347	365	4,230
Critical (15%)	280	263	436	310	278	205	127	99	93	247	195	266	2,799

Alternative 2D (ELT) minus No Action Alternative (ELT)

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	-38	15	172	282	201	119	446	530	334	113	93	-169	1,692
20%	-28	10	20	366	181	134	448	505	391	102	34	-211	1,137
30%	-76	-10	18	288	183	116	372	355	339	19	-128	-202	928
40%	-75	-29	40	137	201	156	297	214	281	-24	-183	-184	797
50%	-69	-36	81	42	176	161	183	130	192	-80	-217	-181	693
60%	-75	-65	44	12	81	179	118	95	74	-71	-239	-219	756
70%	-73	-63	37	-17	37	121	89	64	25	-119	-143	-124	162
80%	-67	-150	12	-15	50	54	45	42	37	-175	-199	-45	-133
90%	-79	-193	37	-114	49	79	31	21	17	-179	61	-49	-185
Long Term													
Full Simulation Period[a]	-59	-50	48	102	124	121	229	213	173	-30	-78	-140	653
Water Year Types[b]													
Wet (32%)	-45	-74	133	229	126	80	361	366	202	10	-73	-223	1,091
Above Normal (15%)	-60	-38	-7	185	175	217	369	366	283	59	-83	-234	1,233
Below Normal (17%)	-82	-70	27	39	206	111	185	144	279	8	-27	-152	668
Dry (22%)	-61	-27	-12	-23	97	176	105	78	91	-123	-170	-42	88
Critical (15%)	-59	-20	31	8	13	47	39	11	-1	-110	-5	1	-46

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-49-2-6. Total Delta Exports, Monthly Delivery Volume

No Action Alternative (ELT)

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	506	640	719	609	606	652	208	225	494	714	724	671	5,990
20%	410	532	681	499	525	575	148	143	350	710	724	659	5,592
30%	398	458	642	428	458	533	128	118	315	697	724	614	5,387
40%	375	403	599	417	423	441	114	109	288	686	715	563	5,158
50%	352	361	532	405	378	401	105	100	222	665	708	539	4,822
60%	336	339	495	393	367	333	97	93	191	612	683	512	4,455
70%	310	308	465	371	320	283	90	92	172	569	521	401	4,304
80%	276	285	444	313	269	266	89	92	100	494	471	285	3,946
90%	244	263	349	261	209	134	89	92	86	413	122	268	3,200
Long Term													
Full Simulation Period[a]	362	402	543	414	401	403	130	142	263	594	580	495	4,728
Water Year Types[b]													
Wet (32%)	409	481	564	501	537	582	175	219	412	664	721	583	5,848
Above Normal (15%)	312	411	580	396	410	475	113	113	330	579	710	586	5,017
Below Normal (17%)	355	412	571	393	368	411	112	107	215	652	611	563	4,770
Dry (22%)	346	352	560	391	316	255	116	112	155	614	517	408	4,142
Critical (15%)	340	283	405	302	264	158	88	88	94	358	200	265	2,845

Alternative 4A (ELT)

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	429	639	768	850	739	694	208	225	630	890	851	582	6,621
20%	384	533	681	779	658	643	148	147	584	828	776	440	5,959
30%	334	441	649	601	626	620	134	121	553	782	720	414	5,737
40%	304	365	626	500	580	571	121	108	492	721	566	396	5,228
50%	294	328	584	450	525	528	112	100	399	671	488	369	4,959
60%	276	285	529	398	445	483	103	92	291	624	441	332	4,725
70%	247	248	486	352	339	393	96	87	223	578	374	315	4,295
80%	213	140	449	267	317	318	86	79	144	488	321	273	3,835
90%	163	99	343	152	266	212	79	74	126	280	255	253	2,959
Long Term													
Full Simulation Period[a]	303	349	570	485	497	492	134	146	390	633	532	386	4,917
Water Year Types[b]													
Wet (32%)	365	407	656	671	612	620	177	235	545	772	707	429	6,194
Above Normal (15%)	240	361	570	560	591	604	109	107	479	719	682	423	5,445
Below Normal (17%)	301	346	589	389	530	511	116	105	422	700	530	410	4,949
Dry (22%)	281	321	531	359	392	413	128	112	275	572	391	361	4,135
Critical (15%)	267	257	422	306	273	197	97	88	104	261	215	269	2,757

Alternative 4A (ELT) minus No Action Alternative (ELT)

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	-77	-1	49	241	133	42	0	0	135	176	127	-89	631
20%	-25	1	-1	280	132	68	0	3	234	118	52	-219	367
30%	-64	-17	8	173	168	87	5	3	238	85	-4	-200	350
40%	-70	-38	27	83	157	130	7	0	204	35	-149	-167	70
50%	-59	-33	52	45	147	127	7	0	178	6	-220	-170	137
60%	-59	-53	34	6	78	151	6	-1	100	12	-241	-180	269
70%	-63	-60	21	-19	18	110	6	-5	52	9	-147	-86	-10
80%	-63	-145	6	-45	47	53	-3	-13	43	-6	-150	-12	-111
90%	-82	-163	-6	-109	56	78	-10	-18	40	-133	133	-16	-242
Long Term													
Full Simulation Period[a]	-59	-53	27	70	96	88	4	4	127	39	-48	-109	189
Water Year Types[b]													
Wet (32%)	-44	-74	91	170	75	38	2	16	133	108	-15	-154	346
Above Normal (15%)	-72	-50	-11	163	181	129	-4	-6	149	140	-27	-164	428
Below Normal (17%)	-55	-65	19	-5	161	100	4	-1	208	48	-81	-154	179
Dry (22%)	-65	-32	-29	-32	77	158	11	0	120	-42	-126	-46	-7
Critical (15%)	-72	-26	17	4	9	39	9	0	10	-97	15	4	-89

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-49-2-7. Total Delta Exports, Monthly Delivery Volume

No Action Alternative (ELT)

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	506	640	719	609	606	652	208	225	494	714	724	671	5,990
20%	410	532	681	499	525	575	148	143	350	710	724	659	5,592
30%	398	458	642	428	458	533	128	118	315	697	724	614	5,387
40%	375	403	599	417	423	441	114	109	288	686	715	563	5,158
50%	352	361	532	405	378	401	105	100	222	665	708	539	4,822
60%	336	339	495	393	367	333	97	93	191	612	683	512	4,455
70%	310	308	465	371	320	283	90	92	172	569	521	401	4,304
80%	276	285	444	313	269	266	89	92	100	494	471	285	3,946
90%	244	263	349	261	209	134	89	92	86	413	122	268	3,200
Long Term													
Full Simulation Period[a]	362	402	543	414	401	403	130	142	263	594	580	495	4,728
Water Year Types[b]													
Wet (32%)	409	481	564	501	537	582	175	219	412	664	721	583	5,848
Above Normal (15%)	312	411	580	396	410	475	113	113	330	579	710	586	5,017
Below Normal (17%)	355	412	571	393	368	411	112	107	215	652	611	563	4,770
Dry (22%)	346	352	560	391	316	255	116	112	155	614	517	408	4,142
Critical (15%)	340	283	405	302	264	158	88	88	94	358	200	265	2,845

Alternative 5A (ELT)

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	523	692	772	724	671	755	379	398	622	874	888	522	6,797
20%	475	546	739	638	617	691	306	281	514	825	826	441	6,293
30%	402	447	687	535	574	617	284	270	485	808	773	406	5,888
40%	372	361	666	504	508	587	268	235	432	741	693	366	5,629
50%	353	318	615	465	457	530	236	201	389	697	596	316	5,358
60%	337	266	581	439	419	440	190	179	339	676	521	288	5,100
70%	301	240	511	428	376	365	158	152	283	595	421	257	4,465
80%	270	134	464	399	332	299	148	129	128	535	249	214	4,141
90%	252	112	384	335	250	219	110	107	93	151	155	124	2,970
Long Term													
Full Simulation Period[a]	371	355	591	499	470	498	238	233	377	641	561	333	5,166
Water Year Types[b]													
Wet (32%)	416	424	649	633	619	676	331	366	568	758	722	321	6,483
Above Normal (15%)	323	368	615	510	500	604	269	261	483	687	751	325	5,696
Below Normal (17%)	370	349	605	457	444	523	211	182	357	704	636	396	5,233
Dry (22%)	344	312	593	425	383	351	185	156	234	674	403	352	4,412
Critical (15%)	359	261	426	356	277	198	113	94	93	217	172	265	2,832

Alternative 5A (ELT) minus No Action Alternative (ELT)

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	17	52	52	115	65	102	172	173	128	161	164	-149	807
20%	65	14	57	138	92	116	158	137	164	115	102	-218	701
30%	5	-11	46	107	116	84	155	151	170	111	49	-208	500
40%	-3	-42	67	88	85	147	153	127	144	55	-22	-197	471
50%	1	-43	84	61	79	129	131	101	168	32	-112	-223	536
60%	1	-73	86	46	52	108	93	87	148	64	-161	-224	645
70%	-9	-68	46	57	56	82	69	60	111	26	-99	-144	161
80%	-6	-151	20	86	63	34	59	37	28	41	-221	-70	194
90%	8	-151	35	74	41	85	21	15	7	-261	33	-144	-230
Long Term													
Full Simulation Period[a]	9	-47	48	84	69	95	108	92	113	47	-18	-162	437
Water Year Types[b]													
Wet (32%)	7	-57	84	132	83	94	156	147	156	94	1	-262	635
Above Normal (15%)	11	-43	34	114	89	129	156	149	153	108	41	-262	679
Below Normal (17%)	15	-63	34	64	75	112	99	75	142	52	26	-168	463
Dry (22%)	-2	-40	33	33	68	96	68	44	79	60	-114	-55	269
Critical (15%)	20	-22	21	53	13	40	25	6	0	-140	-28	0	-13

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

C.50. Isolated Facility Exports

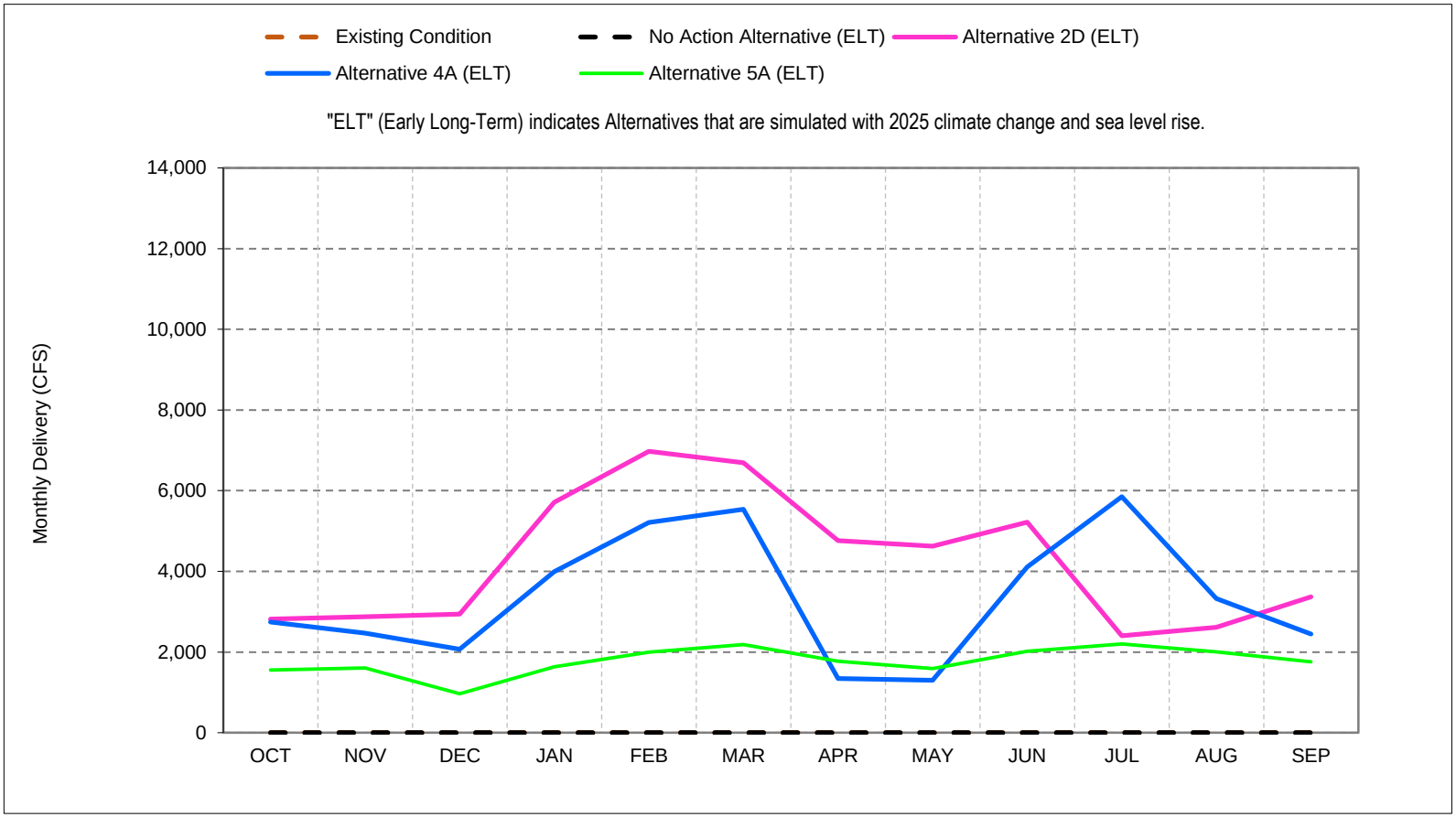
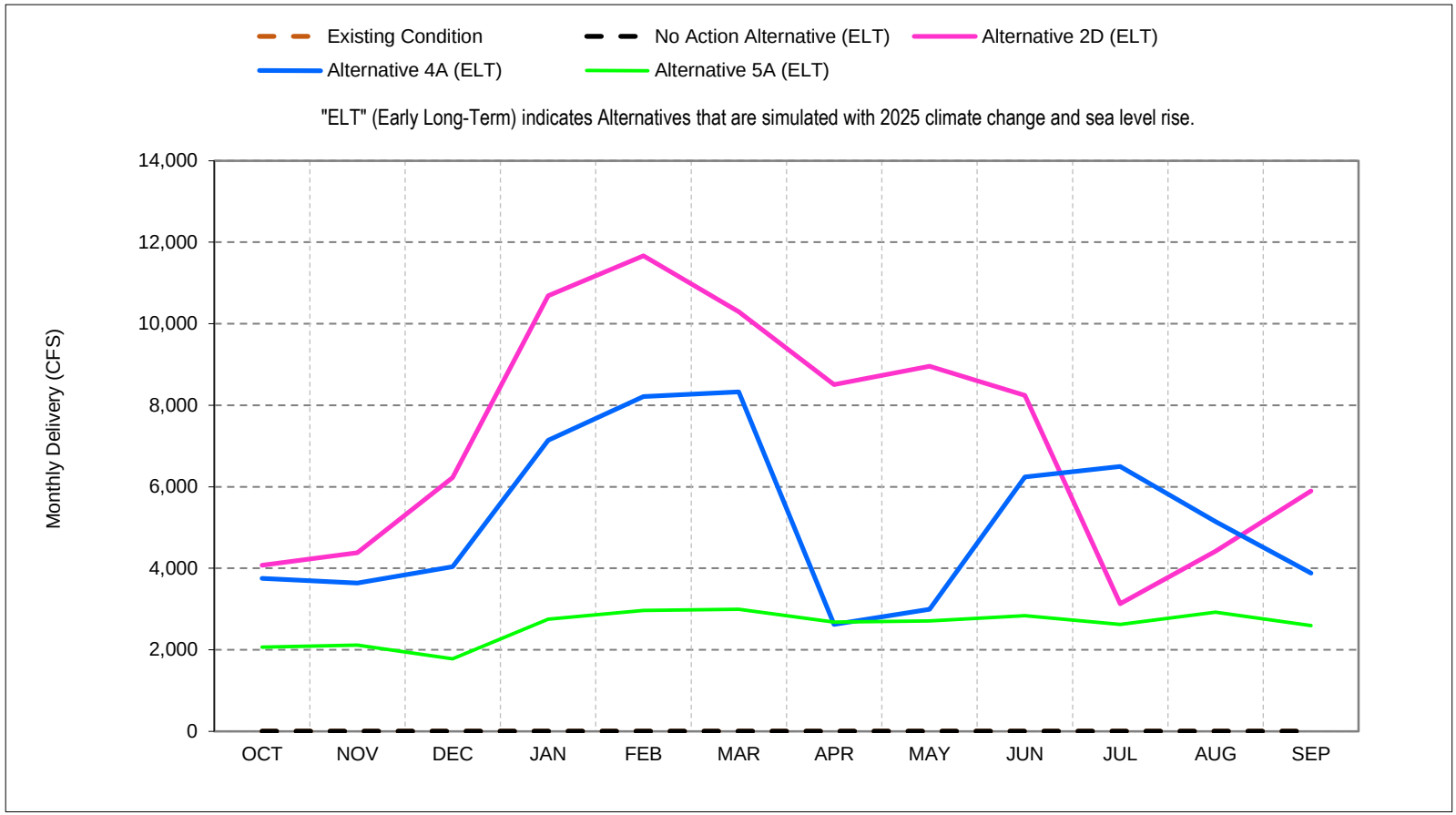
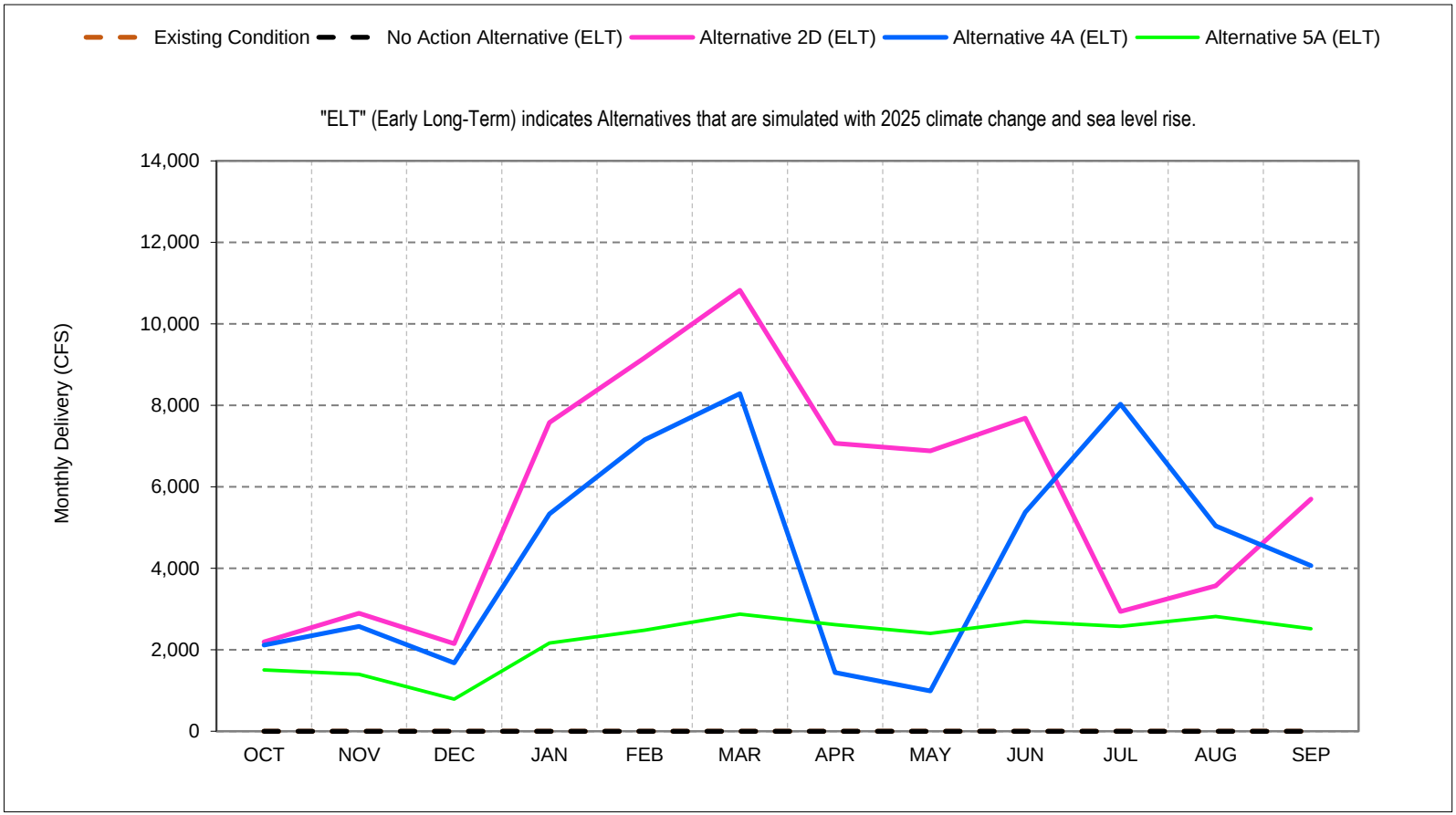


Figure C-50-1. Isolated Facility Exports, Long-Term Average Delivery



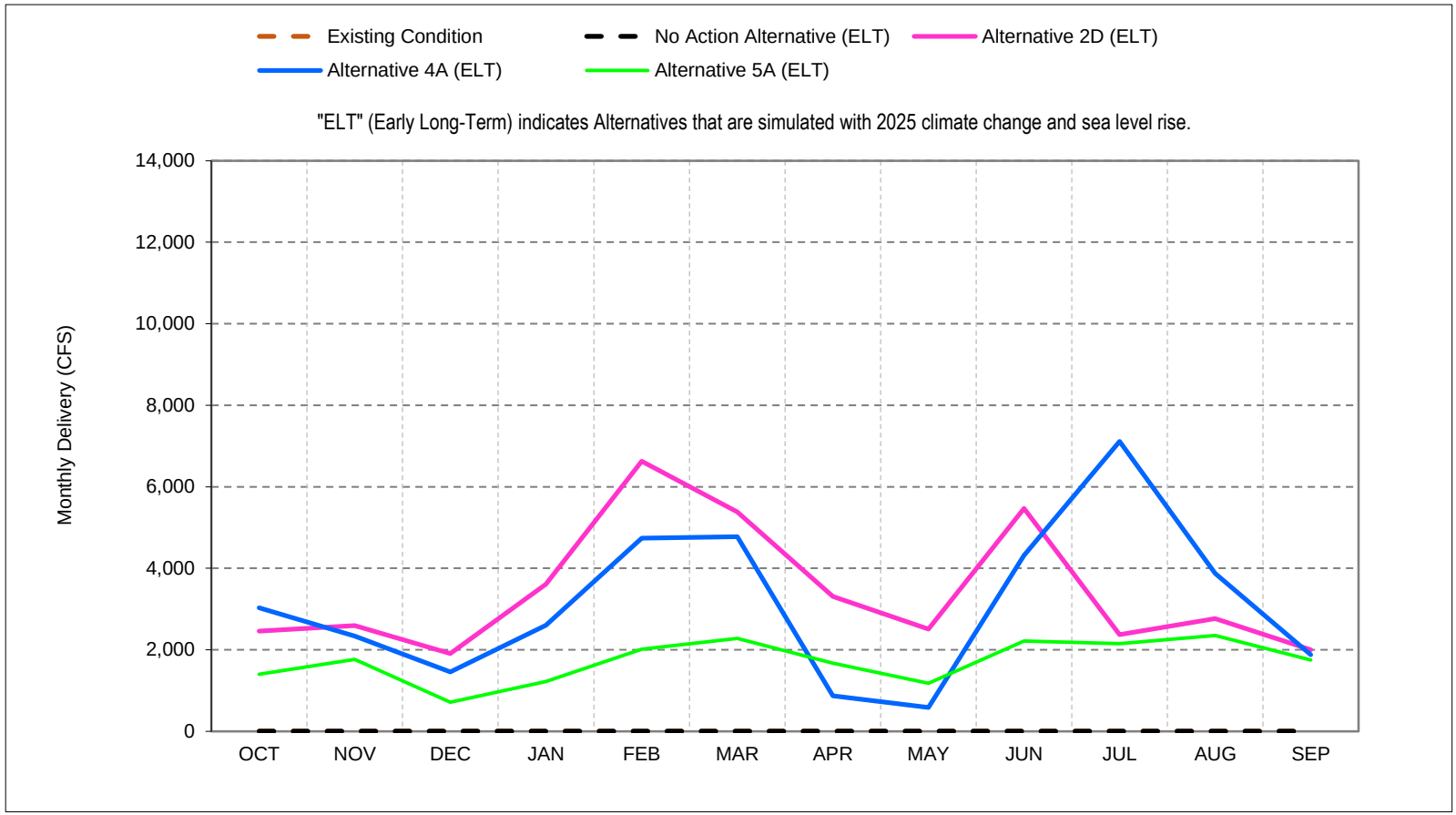
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-50-2. Isolated Facility Exports, Wet Year* Average Delivery



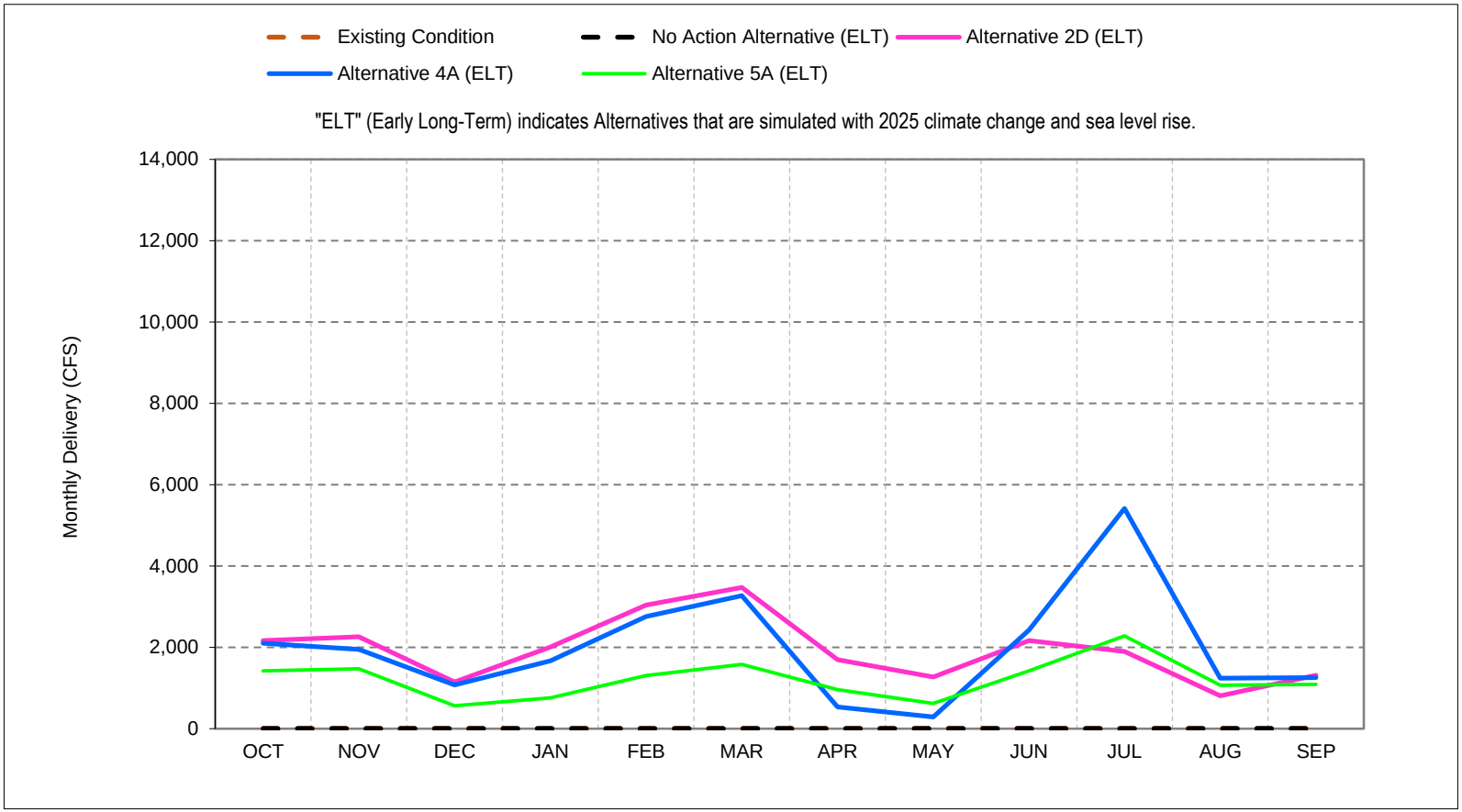
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-50-3. Isolated Facility Exports, Above Normal Year* Average Delivery



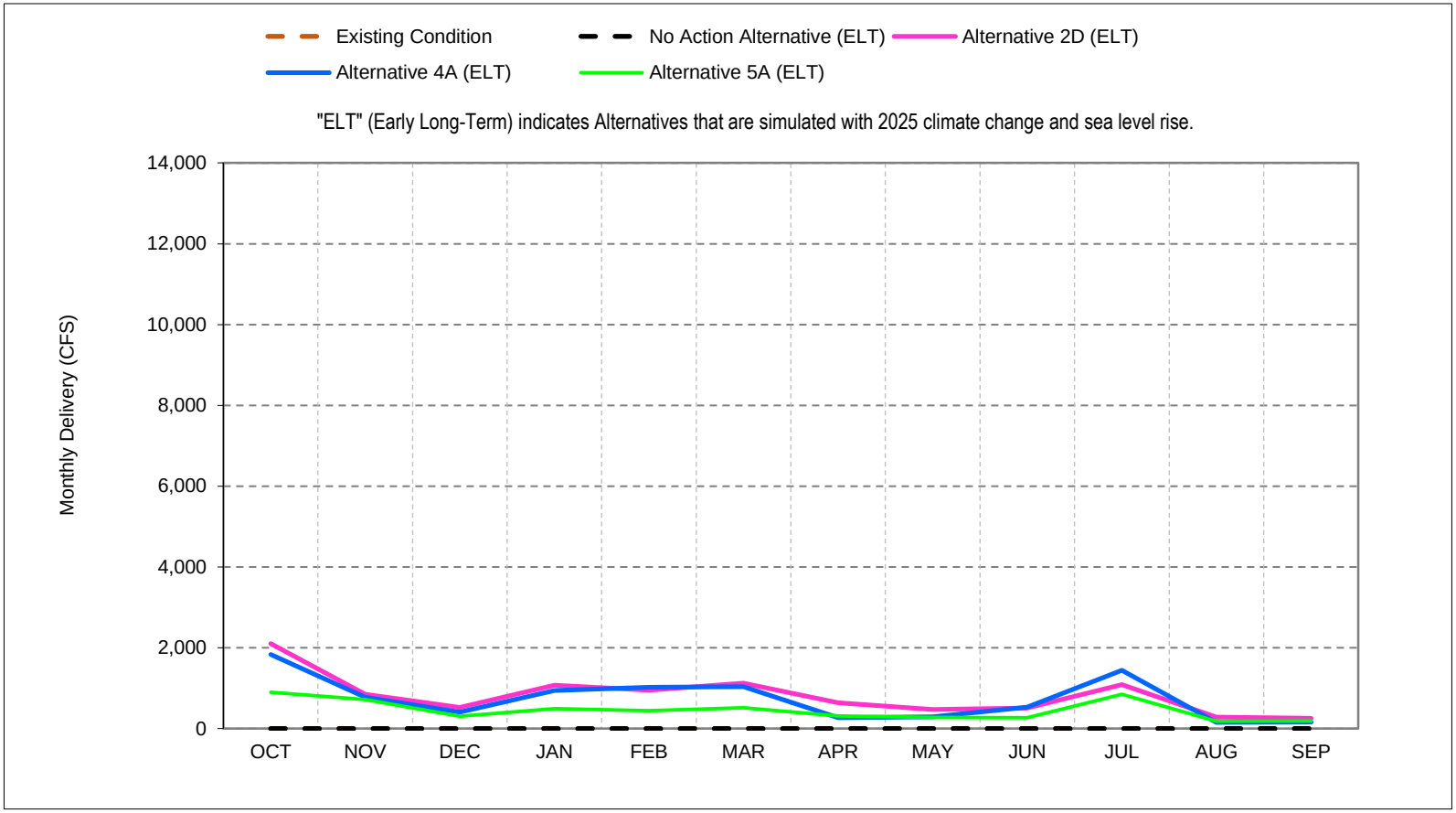
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-50-4. Isolated Facility Exports, Below Normal Year* Average Delivery



*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-50-5. Isolated Facility Exports, Dry Year* Average Delivery



*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-50-6. Isolated Facility Exports, Critical Year* Average Delivery

Table C-50-1-1. Isolated Facility Exports, Monthly Delivery Rate

Existing Condition

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	0	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0	0
Long Term													
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]													
Wet (32%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (15%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (17%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Dry (22%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0	0

No Action Alternative (ELT)

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	0	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0	0
Long Term													
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]													
Wet (32%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (15%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (17%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Dry (22%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0	0

No Action Alternative (ELT) minus Existing Condition

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	0	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0	0
Long Term													
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]													
Wet (32%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (15%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (17%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Dry (22%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0	0

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-50-1-2. Isolated Facility Exports, Monthly Delivery Rate

Existing Condition

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	0	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0	0
Long Term													
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]													
Wet (32%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (15%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (17%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Dry (22%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0	0

Alternative 2D (ELT)

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	4,986	6,836	9,403	14,280	14,274	11,606	10,676	12,205	10,827	5,734	5,263	7,955	7,869
20%	3,848	5,537	5,520	12,367	11,518	10,811	9,863	10,441	10,080	3,811	4,110	6,112	6,742
30%	3,458	3,679	2,108	9,600	10,482	9,678	7,845	6,634	7,948	3,042	3,793	3,982	6,190
40%	3,127	2,241	1,474	5,932	10,053	8,843	5,130	4,224	6,214	2,367	3,250	3,583	5,594
50%	2,476	1,907	1,035	3,154	7,528	7,600	3,589	2,265	4,877	1,742	2,539	2,927	3,791
60%	2,096	1,331	893	1,399	4,755	5,050	1,397	1,191	2,120	1,504	1,799	1,867	2,872
70%	1,504	1,100	817	1,023	2,271	3,492	890	769	1,144	1,034	1,136	1,501	2,161
80%	1,075	471	776	836	1,032	1,128	686	686	751	501	351	621	1,473
90%	0	0	513	710	783	702	637	535	657	235	103	28	909
Long Term													
Full Simulation Period[a]	2,814	2,875	2,943	5,710	6,978	6,695	4,761	4,622	5,221	2,402	2,614	3,370	4,250
Water Year Types[b]													
Wet (32%)	4,070	4,378	6,227	10,686	11,668	10,297	8,504	8,958	8,244	3,128	4,414	5,896	7,206
Above Normal (15%)	2,196	2,899	2,154	7,577	9,166	10,824	7,066	6,881	7,682	2,936	3,573	5,696	5,721
Below Normal (17%)	2,458	2,592	1,909	3,606	6,629	5,379	3,309	2,506	5,468	2,374	2,765	2,002	3,416
Dry (22%)	2,163	2,260	1,144	2,003	3,035	3,474	1,694	1,266	2,164	1,893	809	1,308	1,934
Critical (15%)	2,103	851	521	1,078	950	1,128	640	473	508	1,089	287	260	824

Alternative 2D (ELT) minus Existing Condition

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	4,986	6,836	9,403	14,280	14,274	11,606	10,676	12,205	10,827	5,734	5,263	7,955	7,869
20%	3,848	5,537	5,520	12,367	11,518	10,811	9,863	10,441	10,080	3,811	4,110	6,112	6,742
30%	3,458	3,679	2,108	9,600	10,482	9,678	7,845	6,634	7,948	3,042	3,793	3,982	6,190
40%	3,127	2,241	1,474	5,932	10,053	8,843	5,130	4,224	6,214	2,367	3,250	3,583	5,594
50%	2,476	1,907	1,035	3,154	7,528	7,600	3,589	2,265	4,877	1,742	2,539	2,927	3,791
60%	2,096	1,331	893	1,399	4,755	5,050	1,397	1,191	2,120	1,504	1,799	1,867	2,872
70%	1,504	1,100	817	1,023	2,271	3,492	890	769	1,144	1,034	1,136	1,501	2,161
80%	1,075	471	776	836	1,032	1,128	686	686	751	501	351	621	1,473
90%	0	0	513	710	783	702	637	535	657	235	103	28	909
Long Term													
Full Simulation Period[a]	2,814	2,875	2,943	5,710	6,978	6,695	4,761	4,622	5,221	2,402	2,614	3,370	4,250
Water Year Types[b]													
Wet (32%)	4,070	4,378	6,227	10,686	11,668	10,297	8,504	8,958	8,244	3,128	4,414	5,896	7,206
Above Normal (15%)	2,196	2,899	2,154	7,577	9,166	10,824	7,066	6,881	7,682	2,936	3,573	5,696	5,721
Below Normal (17%)	2,458	2,592	1,909	3,606	6,629	5,379	3,309	2,506	5,468	2,374	2,765	2,002	3,416
Dry (22%)	2,163	2,260	1,144	2,003	3,035	3,474	1,694	1,266	2,164	1,893	809	1,308	1,934
Critical (15%)	2,103	851	521	1,078	950	1,128	640	473	508	1,089	287	260	824

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-50-1-3. Isolated Facility Exports, Monthly Delivery Rate

Existing Condition

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	0	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0	0
Long Term													
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]													
Wet (32%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (15%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (17%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Dry (22%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0	0

Alternative 4A (ELT)

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	5,390	6,138	5,737	9,000	9,000	9,000	3,380	3,526	7,802	8,660	6,894	5,935	5,680
20%	4,328	4,544	4,129	8,313	9,000	9,000	2,135	1,632	6,780	8,535	6,217	3,776	4,917
30%	3,428	3,272	1,899	6,821	8,851	8,738	1,708	1,168	6,351	8,194	4,790	2,651	4,460
40%	3,114	2,439	1,215	5,130	7,082	7,240	1,322	751	5,504	7,520	3,785	2,272	4,087
50%	2,622	1,744	888	2,619	5,794	6,631	777	524	4,388	6,966	3,255	1,811	3,517
60%	2,106	1,100	821	1,295	4,165	4,532	596	399	2,435	5,749	2,409	1,367	2,778
70%	1,620	1,078	797	911	2,229	3,386	455	326	1,420	4,549	1,195	1,165	2,151
80%	979	444	622	811	964	1,449	216	132	758	3,198	522	539	1,615
90%	0	0	343	679	749	699	54	0	659	1,029	166	0	715
Long Term													
Full Simulation Period[a]	2,746	2,469	2,069	3,992	5,213	5,539	1,347	1,300	4,111	5,849	3,325	2,443	3,367
Water Year Types[b]													
Wet (32%)	3,754	3,636	4,036	7,139	8,211	8,330	2,618	2,997	6,239	6,500	5,144	3,877	5,207
Above Normal (15%)	2,113	2,572	1,677	5,330	7,152	8,287	1,445	988	5,373	8,024	5,042	4,063	4,339
Below Normal (17%)	3,030	2,333	1,458	2,602	4,739	4,774	868	584	4,316	7,112	3,870	1,880	3,131
Dry (22%)	2,099	1,949	1,070	1,669	2,753	3,267	533	286	2,425	5,411	1,240	1,250	1,996
Critical (15%)	1,832	776	407	943	1,024	1,042	274	291	529	1,448	155	166	741

Alternative 4A (ELT) minus Existing Condition

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	5,390	6,138	5,737	9,000	9,000	9,000	3,380	3,526	7,802	8,660	6,894	5,935	5,680
20%	4,328	4,544	4,129	8,313	9,000	9,000	2,135	1,632	6,780	8,535	6,217	3,776	4,917
30%	3,428	3,272	1,899	6,821	8,851	8,738	1,708	1,168	6,351	8,194	4,790	2,651	4,460
40%	3,114	2,439	1,215	5,130	7,082	7,240	1,322	751	5,504	7,520	3,785	2,272	4,087
50%	2,622	1,744	888	2,619	5,794	6,631	777	524	4,388	6,966	3,255	1,811	3,517
60%	2,106	1,100	821	1,295	4,165	4,532	596	399	2,435	5,749	2,409	1,367	2,778
70%	1,620	1,078	797	911	2,229	3,386	455	326	1,420	4,549	1,195	1,165	2,151
80%	979	444	622	811	964	1,449	216	132	758	3,198	522	539	1,615
90%	0	0	343	679	749	699	54	0	659	1,029	166	0	715
Long Term													
Full Simulation Period[a]	2,746	2,469	2,069	3,992	5,213	5,539	1,347	1,300	4,111	5,849	3,325	2,443	3,367
Water Year Types[b]													
Wet (32%)	3,754	3,636	4,036	7,139	8,211	8,330	2,618	2,997	6,239	6,500	5,144	3,877	5,207
Above Normal (15%)	2,113	2,572	1,677	5,330	7,152	8,287	1,445	988	5,373	8,024	5,042	4,063	4,339
Below Normal (17%)	3,030	2,333	1,458	2,602	4,739	4,774	868	584	4,316	7,112	3,870	1,880	3,131
Dry (22%)	2,099	1,949	1,070	1,669	2,753	3,267	533	286	2,425	5,411	1,240	1,250	1,996
Critical (15%)	1,832	776	407	943	1,024	1,042	274	291	529	1,448	155	166	741

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-50-1-4. Isolated Facility Exports, Monthly Delivery Rate

Existing Condition

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	0	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0	0
Long Term													
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]													
Wet (32%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (15%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (17%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Dry (22%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0	0

Alternative 5A (ELT)

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	3,000	3,000	2,477	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	2,698
20%	3,000	2,892	2,091	3,000	3,000	3,000	3,000	2,999	3,000	3,000	3,000	3,000	2,508
30%	2,877	2,546	1,120	2,905	3,000	3,000	2,990	2,612	2,964	3,000	3,000	2,930	2,358
40%	2,504	2,165	748	2,381	3,000	3,000	2,710	2,199	2,865	2,952	3,000	2,296	2,252
50%	1,702	1,795	563	1,611	2,301	2,892	2,042	1,358	2,681	2,528	2,657	2,035	1,918
60%	949	1,250	433	829	2,047	2,355	1,088	1,043	2,318	2,328	2,098	1,438	1,607
70%	56	1,036	318	536	1,217	1,929	696	437	1,465	1,872	1,347	1,006	1,234
80%	0	82	300	371	537	866	303	300	305	1,353	395	334	1,043
90%	0	0	280	301	305	300	300	300	300	341	34	0	484
Long Term													
Full Simulation Period[a]	1,556	1,605	969	1,636	1,999	2,183	1,773	1,587	2,022	2,201	2,002	1,755	1,774
Water Year Types[b]													
Wet (32%)	2,063	2,116	1,778	2,753	2,967	2,995	2,678	2,705	2,833	2,624	2,924	2,594	2,586
Above Normal (15%)	1,506	1,402	787	2,168	2,480	2,878	2,619	2,403	2,695	2,572	2,816	2,513	2,237
Below Normal (17%)	1,398	1,766	714	1,219	2,010	2,281	1,668	1,177	2,212	2,150	2,353	1,747	1,725
Dry (22%)	1,417	1,467	560	755	1,308	1,580	955	621	1,420	2,281	1,067	1,089	1,210
Critical (15%)	899	717	304	495	448	518	317	279	273	850	183	188	456

Alternative 5A (ELT) minus Existing Condition

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	3,000	3,000	2,477	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	2,698
20%	3,000	2,892	2,091	3,000	3,000	3,000	3,000	2,999	3,000	3,000	3,000	3,000	2,508
30%	2,877	2,546	1,120	2,905	3,000	3,000	2,990	2,612	2,964	3,000	3,000	2,930	2,358
40%	2,504	2,165	748	2,381	3,000	3,000	2,710	2,199	2,865	2,952	3,000	2,296	2,252
50%	1,702	1,795	563	1,611	2,301	2,892	2,042	1,358	2,681	2,528	2,657	2,035	1,918
60%	949	1,250	433	829	2,047	2,355	1,088	1,043	2,318	2,328	2,098	1,438	1,607
70%	56	1,036	318	536	1,217	1,929	696	437	1,465	1,872	1,347	1,006	1,234
80%	0	82	300	371	537	866	303	300	305	1,353	395	334	1,043
90%	0	0	280	301	305	300	300	300	300	341	34	0	484
Long Term													
Full Simulation Period[a]	1,556	1,605	969	1,636	1,999	2,183	1,773	1,587	2,022	2,201	2,002	1,755	1,774
Water Year Types[b]													
Wet (32%)	2,063	2,116	1,778	2,753	2,967	2,995	2,678	2,705	2,833	2,624	2,924	2,594	2,586
Above Normal (15%)	1,506	1,402	787	2,168	2,480	2,878	2,619	2,403	2,695	2,572	2,816	2,513	2,237
Below Normal (17%)	1,398	1,766	714	1,219	2,010	2,281	1,668	1,177	2,212	2,150	2,353	1,747	1,725
Dry (22%)	1,417	1,467	560	755	1,308	1,580	955	621	1,420	2,281	1,067	1,089	1,210
Critical (15%)	899	717	304	495	448	518	317	279	273	850	183	188	456

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-50-1-5. Isolated Facility Exports, Monthly Delivery Rate

No Action Alternative (ELT)

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	0	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0	0
Long Term													
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]													
Wet (32%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (15%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (17%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Dry (22%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0	0

Alternative 2D (ELT)

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	4,986	6,836	9,403	14,280	14,274	11,606	10,676	12,205	10,827	5,734	5,263	7,955	7,869
20%	3,848	5,537	5,520	12,367	11,518	10,811	9,863	10,441	10,080	3,811	4,110	6,112	6,742
30%	3,458	3,679	2,108	9,600	10,482	9,678	7,845	6,634	7,948	3,042	3,793	3,982	6,190
40%	3,127	2,241	1,474	5,932	10,053	8,843	5,130	4,224	6,214	2,367	3,250	3,583	5,594
50%	2,476	1,907	1,035	3,154	7,528	7,600	3,589	2,265	4,877	1,742	2,539	2,927	3,791
60%	2,096	1,331	893	1,399	4,755	5,050	1,397	1,191	2,120	1,504	1,799	1,867	2,872
70%	1,504	1,100	817	1,023	2,271	3,492	890	769	1,144	1,034	1,136	1,501	2,161
80%	1,075	471	776	836	1,032	1,128	686	686	751	501	351	621	1,473
90%	0	0	513	710	783	702	637	535	657	235	103	28	909
Long Term													
Full Simulation Period[a]	2,814	2,875	2,943	5,710	6,978	6,695	4,761	4,622	5,221	2,402	2,614	3,370	4,250
Water Year Types[b]													
Wet (32%)	4,070	4,378	6,227	10,686	11,668	10,297	8,504	8,958	8,244	3,128	4,414	5,896	7,206
Above Normal (15%)	2,196	2,899	2,154	7,577	9,166	10,824	7,066	6,881	7,682	2,936	3,573	5,696	5,721
Below Normal (17%)	2,458	2,592	1,909	3,606	6,629	5,379	3,309	2,506	5,468	2,374	2,765	2,002	3,416
Dry (22%)	2,163	2,260	1,144	2,003	3,035	3,474	1,694	1,266	2,164	1,893	809	1,308	1,934
Critical (15%)	2,103	851	521	1,078	950	1,128	640	473	508	1,089	287	260	824

Alternative 2D (ELT) minus No Action Alternative (ELT)

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	4,986	6,836	9,403	14,280	14,274	11,606	10,676	12,205	10,827	5,734	5,263	7,955	7,869
20%	3,848	5,537	5,520	12,367	11,518	10,811	9,863	10,441	10,080	3,811	4,110	6,112	6,742
30%	3,458	3,679	2,108	9,600	10,482	9,678	7,845	6,634	7,948	3,042	3,793	3,982	6,190
40%	3,127	2,241	1,474	5,932	10,053	8,843	5,130	4,224	6,214	2,367	3,250	3,583	5,594
50%	2,476	1,907	1,035	3,154	7,528	7,600	3,589	2,265	4,877	1,742	2,539	2,927	3,791
60%	2,096	1,331	893	1,399	4,755	5,050	1,397	1,191	2,120	1,504	1,799	1,867	2,872
70%	1,504	1,100	817	1,023	2,271	3,492	890	769	1,144	1,034	1,136	1,501	2,161
80%	1,075	471	776	836	1,032	1,128	686	686	751	501	351	621	1,473
90%	0	0	513	710	783	702	637	535	657	235	103	28	909
Long Term													
Full Simulation Period[a]	2,814	2,875	2,943	5,710	6,978	6,695	4,761	4,622	5,221	2,402	2,614	3,370	4,250
Water Year Types[b]													
Wet (32%)	4,070	4,378	6,227	10,686	11,668	10,297	8,504	8,958	8,244	3,128	4,414	5,896	7,206
Above Normal (15%)	2,196	2,899	2,154	7,577	9,166	10,824	7,066	6,881	7,682	2,936	3,573	5,696	5,721
Below Normal (17%)	2,458	2,592	1,909	3,606	6,629	5,379	3,309	2,506	5,468	2,374	2,765	2,002	3,416
Dry (22%)	2,163	2,260	1,144	2,003	3,035	3,474	1,694	1,266	2,164	1,893	809	1,308	1,934
Critical (15%)	2,103	851	521	1,078	950	1,128	640	473	508	1,089	287	260	824

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-50-1-6. Isolated Facility Exports, Monthly Delivery Rate

No Action Alternative (ELT)

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	0	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0	0
Long Term													
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]													
Wet (32%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (15%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (17%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Dry (22%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0	0

Alternative 4A (ELT)

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	5,390	6,138	5,737	9,000	9,000	9,000	3,380	3,526	7,802	8,660	6,894	5,935	5,680
20%	4,328	4,544	4,129	8,313	9,000	9,000	2,135	1,632	6,780	8,535	6,217	3,776	4,917
30%	3,428	3,272	1,899	6,821	8,851	8,738	1,708	1,168	6,351	8,194	4,790	2,651	4,460
40%	3,114	2,439	1,215	5,130	7,082	7,240	1,322	751	5,504	7,520	3,785	2,272	4,087
50%	2,622	1,744	888	2,619	5,794	6,631	777	524	4,388	6,966	3,255	1,811	3,517
60%	2,106	1,100	821	1,295	4,165	4,532	596	399	2,435	5,749	2,409	1,367	2,778
70%	1,620	1,078	797	911	2,229	3,386	455	326	1,420	4,549	1,195	1,165	2,151
80%	979	444	622	811	964	1,449	216	132	758	3,198	522	539	1,615
90%	0	0	343	679	749	699	54	0	659	1,029	166	0	715
Long Term													
Full Simulation Period[a]	2,746	2,469	2,069	3,992	5,213	5,539	1,347	1,300	4,111	5,849	3,325	2,443	3,367
Water Year Types[b]													
Wet (32%)	3,754	3,636	4,036	7,139	8,211	8,330	2,618	2,997	6,239	6,500	5,144	3,877	5,207
Above Normal (15%)	2,113	2,572	1,677	5,330	7,152	8,287	1,445	988	5,373	8,024	5,042	4,063	4,339
Below Normal (17%)	3,030	2,333	1,458	2,602	4,739	4,774	868	584	4,316	7,112	3,870	1,880	3,131
Dry (22%)	2,099	1,949	1,070	1,669	2,753	3,267	533	286	2,425	5,411	1,240	1,250	1,996
Critical (15%)	1,832	776	407	943	1,024	1,042	274	291	529	1,448	155	166	741

Alternative 4A (ELT) minus No Action Alternative (ELT)

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	5,390	6,138	5,737	9,000	9,000	9,000	3,380	3,526	7,802	8,660	6,894	5,935	5,680
20%	4,328	4,544	4,129	8,313	9,000	9,000	2,135	1,632	6,780	8,535	6,217	3,776	4,917
30%	3,428	3,272	1,899	6,821	8,851	8,738	1,708	1,168	6,351	8,194	4,790	2,651	4,460
40%	3,114	2,439	1,215	5,130	7,082	7,240	1,322	751	5,504	7,520	3,785	2,272	4,087
50%	2,622	1,744	888	2,619	5,794	6,631	777	524	4,388	6,966	3,255	1,811	3,517
60%	2,106	1,100	821	1,295	4,165	4,532	596	399	2,435	5,749	2,409	1,367	2,778
70%	1,620	1,078	797	911	2,229	3,386	455	326	1,420	4,549	1,195	1,165	2,151
80%	979	444	622	811	964	1,449	216	132	758	3,198	522	539	1,615
90%	0	0	343	679	749	699	54	0	659	1,029	166	0	715
Long Term													
Full Simulation Period[a]	2,746	2,469	2,069	3,992	5,213	5,539	1,347	1,300	4,111	5,849	3,325	2,443	3,367
Water Year Types[b]													
Wet (32%)	3,754	3,636	4,036	7,139	8,211	8,330	2,618	2,997	6,239	6,500	5,144	3,877	5,207
Above Normal (15%)	2,113	2,572	1,677	5,330	7,152	8,287	1,445	988	5,373	8,024	5,042	4,063	4,339
Below Normal (17%)	3,030	2,333	1,458	2,602	4,739	4,774	868	584	4,316	7,112	3,870	1,880	3,131
Dry (22%)	2,099	1,949	1,070	1,669	2,753	3,267	533	286	2,425	5,411	1,240	1,250	1,996
Critical (15%)	1,832	776	407	943	1,024	1,042	274	291	529	1,448	155	166	741

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-50-1-7. Isolated Facility Exports, Monthly Delivery Rate

No Action Alternative (ELT)

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	0	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0	0
Long Term													
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]													
Wet (32%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (15%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (17%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Dry (22%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0	0

Alternative 5A (ELT)

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	3,000	3,000	2,477	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	2,698
20%	3,000	2,892	2,091	3,000	3,000	3,000	3,000	2,999	3,000	3,000	3,000	3,000	2,508
30%	2,877	2,546	1,120	2,905	3,000	3,000	2,990	2,612	2,964	3,000	3,000	2,930	2,358
40%	2,504	2,165	748	2,381	3,000	3,000	2,710	2,199	2,865	2,952	3,000	2,296	2,252
50%	1,702	1,795	563	1,611	2,301	2,892	2,042	1,358	2,681	2,528	2,657	2,035	1,918
60%	949	1,250	433	829	2,047	2,355	1,088	1,043	2,318	2,328	2,098	1,438	1,607
70%	56	1,036	318	536	1,217	1,929	696	437	1,465	1,872	1,347	1,006	1,234
80%	0	82	300	371	537	866	303	300	305	1,353	395	334	1,043
90%	0	0	280	301	305	300	300	300	300	341	34	0	484
Long Term													
Full Simulation Period[a]	1,556	1,605	969	1,636	1,999	2,183	1,773	1,587	2,022	2,201	2,002	1,755	1,774
Water Year Types[b]													
Wet (32%)	2,063	2,116	1,778	2,753	2,967	2,995	2,678	2,705	2,833	2,624	2,924	2,594	2,586
Above Normal (15%)	1,506	1,402	787	2,168	2,480	2,878	2,619	2,403	2,695	2,572	2,816	2,513	2,237
Below Normal (17%)	1,398	1,766	714	1,219	2,010	2,281	1,668	1,177	2,212	2,150	2,353	1,747	1,725
Dry (22%)	1,417	1,467	560	755	1,308	1,580	955	621	1,420	2,281	1,067	1,089	1,210
Critical (15%)	899	717	304	495	448	518	317	279	273	850	183	188	456

Alternative 5A (ELT) minus No Action Alternative (ELT)

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	3,000	3,000	2,477	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	2,698
20%	3,000	2,892	2,091	3,000	3,000	3,000	3,000	2,999	3,000	3,000	3,000	3,000	2,508
30%	2,877	2,546	1,120	2,905	3,000	3,000	2,990	2,612	2,964	3,000	3,000	2,930	2,358
40%	2,504	2,165	748	2,381	3,000	3,000	2,710	2,199	2,865	2,952	3,000	2,296	2,252
50%	1,702	1,795	563	1,611	2,301	2,892	2,042	1,358	2,681	2,528	2,657	2,035	1,918
60%	949	1,250	433	829	2,047	2,355	1,088	1,043	2,318	2,328	2,098	1,438	1,607
70%	56	1,036	318	536	1,217	1,929	696	437	1,465	1,872	1,347	1,006	1,234
80%	0	82	300	371	537	866	303	300	305	1,353	395	334	1,043
90%	0	0	280	301	305	300	300	300	300	341	34	0	484
Long Term													
Full Simulation Period[a]	1,556	1,605	969	1,636	1,999	2,183	1,773	1,587	2,022	2,201	2,002	1,755	1,774
Water Year Types[b]													
Wet (32%)	2,063	2,116	1,778	2,753	2,967	2,995	2,678	2,705	2,833	2,624	2,924	2,594	2,586
Above Normal (15%)	1,506	1,402	787	2,168	2,480	2,878	2,619	2,403	2,695	2,572	2,816	2,513	2,237
Below Normal (17%)	1,398	1,766	714	1,219	2,010	2,281	1,668	1,177	2,212	2,150	2,353	1,747	1,725
Dry (22%)	1,417	1,467	560	755	1,308	1,580	955	621	1,420	2,281	1,067	1,089	1,210
Critical (15%)	899	717	304	495	448	518	317	279	273	850	183	188	456

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-50-2-1. Isolated Facility Exports, Monthly Delivery Volume

Existing Condition

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	0	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0	0
Long Term													
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]													
Wet (32%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (15%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (17%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Dry (22%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0	0

No Action Alternative (ELT)

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	0	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0	0
Long Term													
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]													
Wet (32%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (15%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (17%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Dry (22%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0	0

No Action Alternative (ELT) minus Existing Condition

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	0	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0	0
Long Term													
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]													
Wet (32%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (15%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (17%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Dry (22%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0	0

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-50-2-2. Isolated Facility Exports, Monthly Delivery Volume

Existing Condition

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	0	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0	0
Long Term													
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]													
Wet (32%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (15%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (17%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Dry (22%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0	0

Alternative 2D (ELT)

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	307	407	578	878	799	714	635	750	644	353	324	473	5,643
20%	237	329	339	760	641	665	587	642	600	234	253	364	4,855
30%	213	219	130	590	596	595	467	408	473	187	233	237	4,468
40%	192	133	91	365	558	544	305	260	370	146	200	213	4,025
50%	152	113	64	194	418	467	214	139	290	107	156	174	2,732
60%	129	79	55	86	264	311	83	73	126	92	111	111	2,062
70%	92	65	50	63	126	215	53	47	68	64	70	89	1,539
80%	66	28	48	51	57	69	41	42	45	31	22	37	1,064
90%	0	0	32	44	44	43	38	33	39	14	6	2	660
Long Term													
Full Simulation Period[a]	173	171	181	351	391	412	283	284	311	148	161	201	3,066
Water Year Types[b]													
Wet (32%)	250	261	383	657	652	633	506	551	491	192	271	351	5,198
Above Normal (15%)	135	173	132	466	516	666	420	423	457	181	220	339	4,127
Below Normal (17%)	151	154	117	222	372	331	197	154	325	146	170	119	2,458
Dry (22%)	133	134	70	123	170	214	101	78	129	116	50	78	1,396
Critical (15%)	129	51	32	66	53	69	38	29	30	67	18	15	598

Alternative 2D (ELT) minus Existing Condition

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	307	407	578	878	799	714	635	750	644	353	324	473	5,643
20%	237	329	339	760	641	665	587	642	600	234	253	364	4,855
30%	213	219	130	590	596	595	467	408	473	187	233	237	4,468
40%	192	133	91	365	558	544	305	260	370	146	200	213	4,025
50%	152	113	64	194	418	467	214	139	290	107	156	174	2,732
60%	129	79	55	86	264	311	83	73	126	92	111	111	2,062
70%	92	65	50	63	126	215	53	47	68	64	70	89	1,539
80%	66	28	48	51	57	69	41	42	45	31	22	37	1,064
90%	0	0	32	44	44	43	38	33	39	14	6	2	660
Long Term													
Full Simulation Period[a]	173	171	181	351	391	412	283	284	311	148	161	201	3,066
Water Year Types[b]													
Wet (32%)	250	261	383	657	652	633	506	551	491	192	271	351	5,198
Above Normal (15%)	135	173	132	466	516	666	420	423	457	181	220	339	4,127
Below Normal (17%)	151	154	117	222	372	331	197	154	325	146	170	119	2,458
Dry (22%)	133	134	70	123	170	214	101	78	129	116	50	78	1,396
Critical (15%)	129	51	32	66	53	69	38	29	30	67	18	15	598

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-50-2-3. Isolated Facility Exports, Monthly Delivery Volume

Existing Condition

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	0	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0	0
Long Term													
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]													
Wet (32%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (15%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (17%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Dry (22%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0	0

Alternative 4A (ELT)

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	331	365	353	553	500	553	201	217	464	532	424	353	4,105
20%	266	270	254	511	500	553	127	100	403	525	382	225	3,566
30%	211	195	117	419	498	537	102	72	378	504	295	158	3,216
40%	191	145	75	315	393	445	79	46	328	462	233	135	2,967
50%	161	104	55	161	326	408	46	32	261	428	200	108	2,539
60%	129	65	50	80	237	279	35	25	145	354	148	81	2,008
70%	100	64	49	56	124	208	27	20	84	280	73	69	1,563
80%	60	26	38	50	54	89	13	8	45	197	32	32	1,175
90%	0	0	21	42	42	43	3	0	39	63	10	0	521
Long Term													
Full Simulation Period[a]	169	147	127	245	292	341	80	80	245	360	204	145	2,435
Water Year Types[b]													
Wet (32%)	231	216	248	439	458	512	156	184	371	400	316	231	3,763
Above Normal (15%)	130	153	103	328	402	510	86	61	320	493	310	242	3,137
Below Normal (17%)	186	139	90	160	266	294	52	36	257	437	238	112	2,266
Dry (22%)	129	116	66	103	154	201	32	18	144	333	76	74	1,445
Critical (15%)	113	46	25	58	58	64	16	18	31	89	10	10	538

Alternative 4A (ELT) minus Existing Condition

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	331	365	353	553	500	553	201	217	464	532	424	353	4,105
20%	266	270	254	511	500	553	127	100	403	525	382	225	3,566
30%	211	195	117	419	498	537	102	72	378	504	295	158	3,216
40%	191	145	75	315	393	445	79	46	328	462	233	135	2,967
50%	161	104	55	161	326	408	46	32	261	428	200	108	2,539
60%	129	65	50	80	237	279	35	25	145	354	148	81	2,008
70%	100	64	49	56	124	208	27	20	84	280	73	69	1,563
80%	60	26	38	50	54	89	13	8	45	197	32	32	1,175
90%	0	0	21	42	42	43	3	0	39	63	10	0	521
Long Term													
Full Simulation Period[a]	169	147	127	245	292	341	80	80	245	360	204	145	2,435
Water Year Types[b]													
Wet (32%)	231	216	248	439	458	512	156	184	371	400	316	231	3,763
Above Normal (15%)	130	153	103	328	402	510	86	61	320	493	310	242	3,137
Below Normal (17%)	186	139	90	160	266	294	52	36	257	437	238	112	2,266
Dry (22%)	129	116	66	103	154	201	32	18	144	333	76	74	1,445
Critical (15%)	113	46	25	58	58	64	16	18	31	89	10	10	538

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-50-2-4. Isolated Facility Exports, Monthly Delivery Volume

Existing Condition

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	0	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0	0
Long Term													
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]													
Wet (32%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (15%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (17%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Dry (22%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0	0

Alternative 5A (ELT)

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	184	179	152	184	172	184	179	184	179	184	184	179	1,951
20%	184	172	129	184	167	184	179	184	179	184	184	179	1,816
30%	177	152	69	179	167	184	178	161	176	184	184	174	1,709
40%	154	129	46	146	167	184	161	135	170	182	184	137	1,626
50%	105	107	35	99	128	178	121	83	160	155	163	121	1,390
60%	58	74	27	51	116	145	65	64	138	143	129	86	1,170
70%	3	62	20	33	68	119	41	27	87	115	83	60	898
80%	0	5	18	23	30	53	18	18	18	83	24	20	757
90%	0	0	17	18	18	18	18	18	18	21	2	0	353
Long Term													
Full Simulation Period[a]	96	95	60	101	112	134	106	98	120	135	123	104	1,284
Water Year Types[b]													
Wet (32%)	127	126	109	169	166	184	159	166	169	161	180	154	1,871
Above Normal (15%)	93	83	48	133	140	177	156	148	160	158	173	150	1,619
Below Normal (17%)	86	105	44	75	113	140	99	72	132	132	145	104	1,247
Dry (22%)	87	87	34	46	73	97	57	38	85	140	66	65	876
Critical (15%)	55	43	19	30	25	32	19	17	16	52	11	11	331

Alternative 5A (ELT) minus Existing Condition

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	184	179	152	184	172	184	179	184	179	184	184	179	1,951
20%	184	172	129	184	167	184	179	184	179	184	184	179	1,816
30%	177	152	69	179	167	184	178	161	176	184	184	174	1,709
40%	154	129	46	146	167	184	161	135	170	182	184	137	1,626
50%	105	107	35	99	128	178	121	83	160	155	163	121	1,390
60%	58	74	27	51	116	145	65	64	138	143	129	86	1,170
70%	3	62	20	33	68	119	41	27	87	115	83	60	898
80%	0	5	18	23	30	53	18	18	18	83	24	20	757
90%	0	0	17	18	18	18	18	18	18	21	2	0	353
Long Term													
Full Simulation Period[a]	96	95	60	101	112	134	106	98	120	135	123	104	1,284
Water Year Types[b]													
Wet (32%)	127	126	109	169	166	184	159	166	169	161	180	154	1,871
Above Normal (15%)	93	83	48	133	140	177	156	148	160	158	173	150	1,619
Below Normal (17%)	86	105	44	75	113	140	99	72	132	132	145	104	1,247
Dry (22%)	87	87	34	46	73	97	57	38	85	140	66	65	876
Critical (15%)	55	43	19	30	25	32	19	17	16	52	11	11	331

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-50-2-5. Isolated Facility Exports, Monthly Delivery Volume

No Action Alternative (ELT)

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	0	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0	0
Long Term													
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]													
Wet (32%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (15%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (17%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Dry (22%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0	0

Alternative 2D (ELT)

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	307	407	578	878	799	714	635	750	644	353	324	473	5,643
20%	237	329	339	760	641	665	587	642	600	234	253	364	4,855
30%	213	219	130	590	596	595	467	408	473	187	233	237	4,468
40%	192	133	91	365	558	544	305	260	370	146	200	213	4,025
50%	152	113	64	194	418	467	214	139	290	107	156	174	2,732
60%	129	79	55	86	264	311	83	73	126	92	111	111	2,062
70%	92	65	50	63	126	215	53	47	68	64	70	89	1,539
80%	66	28	48	51	57	69	41	42	45	31	22	37	1,064
90%	0	0	32	44	44	43	38	33	39	14	6	2	660
Long Term													
Full Simulation Period[a]	173	171	181	351	391	412	283	284	311	148	161	201	3,066
Water Year Types[b]													
Wet (32%)	250	261	383	657	652	633	506	551	491	192	271	351	5,198
Above Normal (15%)	135	173	132	466	516	666	420	423	457	181	220	339	4,127
Below Normal (17%)	151	154	117	222	372	331	197	154	325	146	170	119	2,458
Dry (22%)	133	134	70	123	170	214	101	78	129	116	50	78	1,396
Critical (15%)	129	51	32	66	53	69	38	29	30	67	18	15	598

Alternative 2D (ELT) minus No Action Alternative (ELT)

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	307	407	578	878	799	714	635	750	644	353	324	473	5,643
20%	237	329	339	760	641	665	587	642	600	234	253	364	4,855
30%	213	219	130	590	596	595	467	408	473	187	233	237	4,468
40%	192	133	91	365	558	544	305	260	370	146	200	213	4,025
50%	152	113	64	194	418	467	214	139	290	107	156	174	2,732
60%	129	79	55	86	264	311	83	73	126	92	111	111	2,062
70%	92	65	50	63	126	215	53	47	68	64	70	89	1,539
80%	66	28	48	51	57	69	41	42	45	31	22	37	1,064
90%	0	0	32	44	44	43	38	33	39	14	6	2	660
Long Term													
Full Simulation Period[a]	173	171	181	351	391	412	283	284	311	148	161	201	3,066
Water Year Types[b]													
Wet (32%)	250	261	383	657	652	633	506	551	491	192	271	351	5,198
Above Normal (15%)	135	173	132	466	516	666	420	423	457	181	220	339	4,127
Below Normal (17%)	151	154	117	222	372	331	197	154	325	146	170	119	2,458
Dry (22%)	133	134	70	123	170	214	101	78	129	116	50	78	1,396
Critical (15%)	129	51	32	66	53	69	38	29	30	67	18	15	598

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-50-2-6. Isolated Facility Exports, Monthly Delivery Volume

No Action Alternative (ELT)

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	0	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0	0
Long Term													
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]													
Wet (32%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (15%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (17%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Dry (22%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0	0

Alternative 4A (ELT)

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	331	365	353	553	500	553	201	217	464	532	424	353	4,105
20%	266	270	254	511	500	553	127	100	403	525	382	225	3,566
30%	211	195	117	419	498	537	102	72	378	504	295	158	3,216
40%	191	145	75	315	393	445	79	46	328	462	233	135	2,967
50%	161	104	55	161	326	408	46	32	261	428	200	108	2,539
60%	129	65	50	80	237	279	35	25	145	354	148	81	2,008
70%	100	64	49	56	124	208	27	20	84	280	73	69	1,563
80%	60	26	38	50	54	89	13	8	45	197	32	32	1,175
90%	0	0	21	42	42	43	3	0	39	63	10	0	521
Long Term													
Full Simulation Period[a]	169	147	127	245	292	341	80	80	245	360	204	145	2,435
Water Year Types[b]													
Wet (32%)	231	216	248	439	458	512	156	184	371	400	316	231	3,763
Above Normal (15%)	130	153	103	328	402	510	86	61	320	493	310	242	3,137
Below Normal (17%)	186	139	90	160	266	294	52	36	257	437	238	112	2,266
Dry (22%)	129	116	66	103	154	201	32	18	144	333	76	74	1,445
Critical (15%)	113	46	25	58	58	64	16	18	31	89	10	10	538

Alternative 4A (ELT) minus No Action Alternative (ELT)

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	331	365	353	553	500	553	201	217	464	532	424	353	4,105
20%	266	270	254	511	500	553	127	100	403	525	382	225	3,566
30%	211	195	117	419	498	537	102	72	378	504	295	158	3,216
40%	191	145	75	315	393	445	79	46	328	462	233	135	2,967
50%	161	104	55	161	326	408	46	32	261	428	200	108	2,539
60%	129	65	50	80	237	279	35	25	145	354	148	81	2,008
70%	100	64	49	56	124	208	27	20	84	280	73	69	1,563
80%	60	26	38	50	54	89	13	8	45	197	32	32	1,175
90%	0	0	21	42	42	43	3	0	39	63	10	0	521
Long Term													
Full Simulation Period[a]	169	147	127	245	292	341	80	80	245	360	204	145	2,435
Water Year Types[b]													
Wet (32%)	231	216	248	439	458	512	156	184	371	400	316	231	3,763
Above Normal (15%)	130	153	103	328	402	510	86	61	320	493	310	242	3,137
Below Normal (17%)	186	139	90	160	266	294	52	36	257	437	238	112	2,266
Dry (22%)	129	116	66	103	154	201	32	18	144	333	76	74	1,445
Critical (15%)	113	46	25	58	58	64	16	18	31	89	10	10	538

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-50-2-7. Isolated Facility Exports, Monthly Delivery Volume

No Action Alternative (ELT)

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	0	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0	0
Long Term													
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]													
Wet (32%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (15%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (17%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Dry (22%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0	0

Alternative 5A (ELT)

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	184	179	152	184	172	184	179	184	179	184	184	179	1,951
20%	184	172	129	184	167	184	179	184	179	184	184	179	1,816
30%	177	152	69	179	167	184	178	161	176	184	184	174	1,709
40%	154	129	46	146	167	184	161	135	170	182	184	137	1,626
50%	105	107	35	99	128	178	121	83	160	155	163	121	1,390
60%	58	74	27	51	116	145	65	64	138	143	129	86	1,170
70%	3	62	20	33	68	119	41	27	87	115	83	60	898
80%	0	5	18	23	30	53	18	18	18	83	24	20	757
90%	0	0	17	18	18	18	18	18	18	21	2	0	353
Long Term													
Full Simulation Period[a]	96	95	60	101	112	134	106	98	120	135	123	104	1,284
Water Year Types[b]													
Wet (32%)	127	126	109	169	166	184	159	166	169	161	180	154	1,871
Above Normal (15%)	93	83	48	133	140	177	156	148	160	158	173	150	1,619
Below Normal (17%)	86	105	44	75	113	140	99	72	132	132	145	104	1,247
Dry (22%)	87	87	34	46	73	97	57	38	85	140	66	65	876
Critical (15%)	55	43	19	30	25	32	19	17	16	52	11	11	331

Alternative 5A (ELT) minus No Action Alternative (ELT)

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	184	179	152	184	172	184	179	184	179	184	184	179	1,951
20%	184	172	129	184	167	184	179	184	179	184	184	179	1,816
30%	177	152	69	179	167	184	178	161	176	184	184	174	1,709
40%	154	129	46	146	167	184	161	135	170	182	184	137	1,626
50%	105	107	35	99	128	178	121	83	160	155	163	121	1,390
60%	58	74	27	51	116	145	65	64	138	143	129	86	1,170
70%	3	62	20	33	68	119	41	27	87	115	83	60	898
80%	0	5	18	23	30	53	18	18	18	83	24	20	757
90%	0	0	17	18	18	18	18	18	18	21	2	0	353
Long Term													
Full Simulation Period[a]	96	95	60	101	112	134	106	98	120	135	123	104	1,284
Water Year Types[b]													
Wet (32%)	127	126	109	169	166	184	159	166	169	161	180	154	1,871
Above Normal (15%)	93	83	48	133	140	177	156	148	160	158	173	150	1,619
Below Normal (17%)	86	105	44	75	113	140	99	72	132	132	145	104	1,247
Dry (22%)	87	87	34	46	73	97	57	38	85	140	66	65	876
Critical (15%)	55	43	19	30	25	32	19	17	16	52	11	11	331

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

C.51. SWP and CVP South Delta Exports

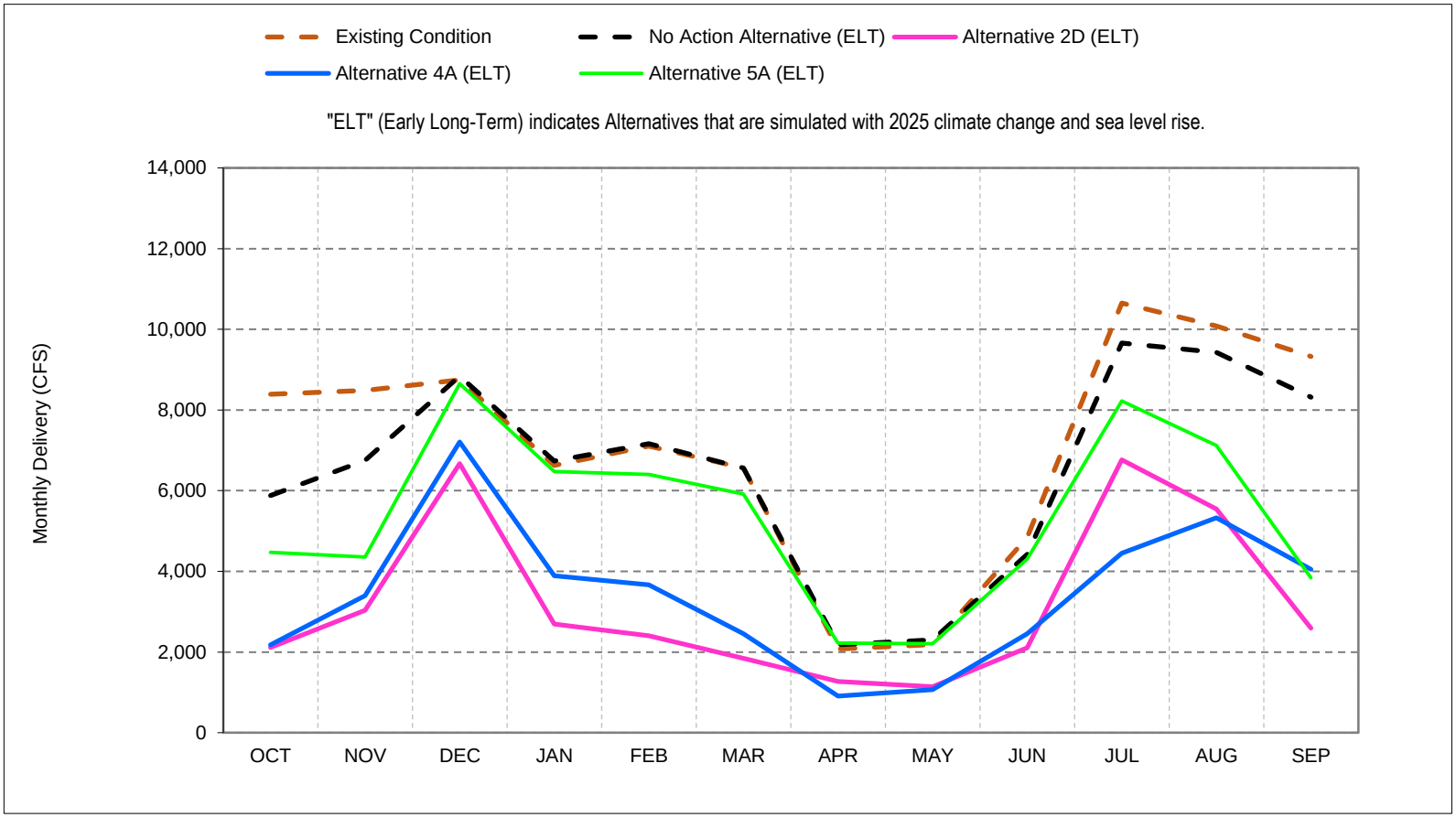
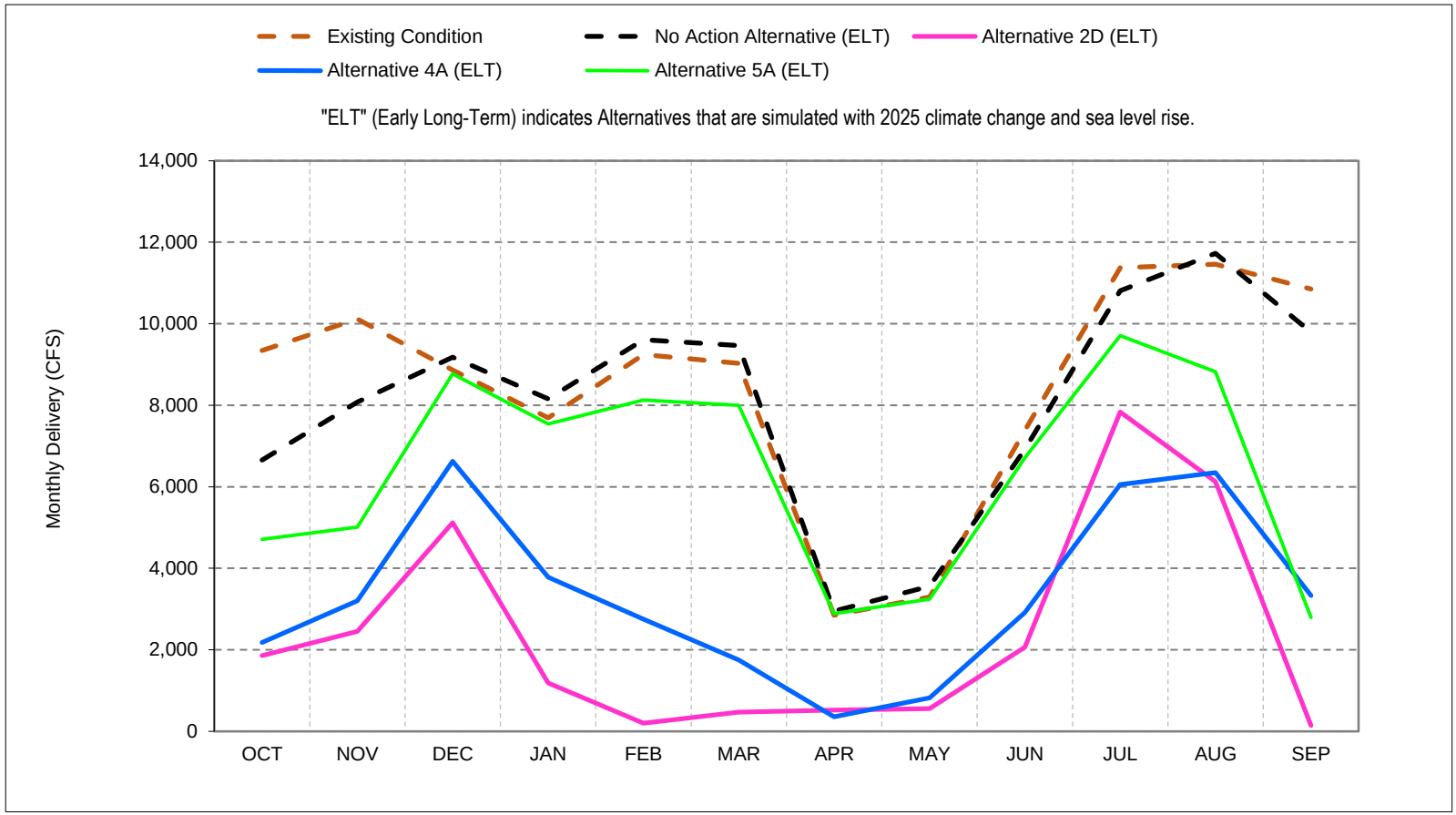
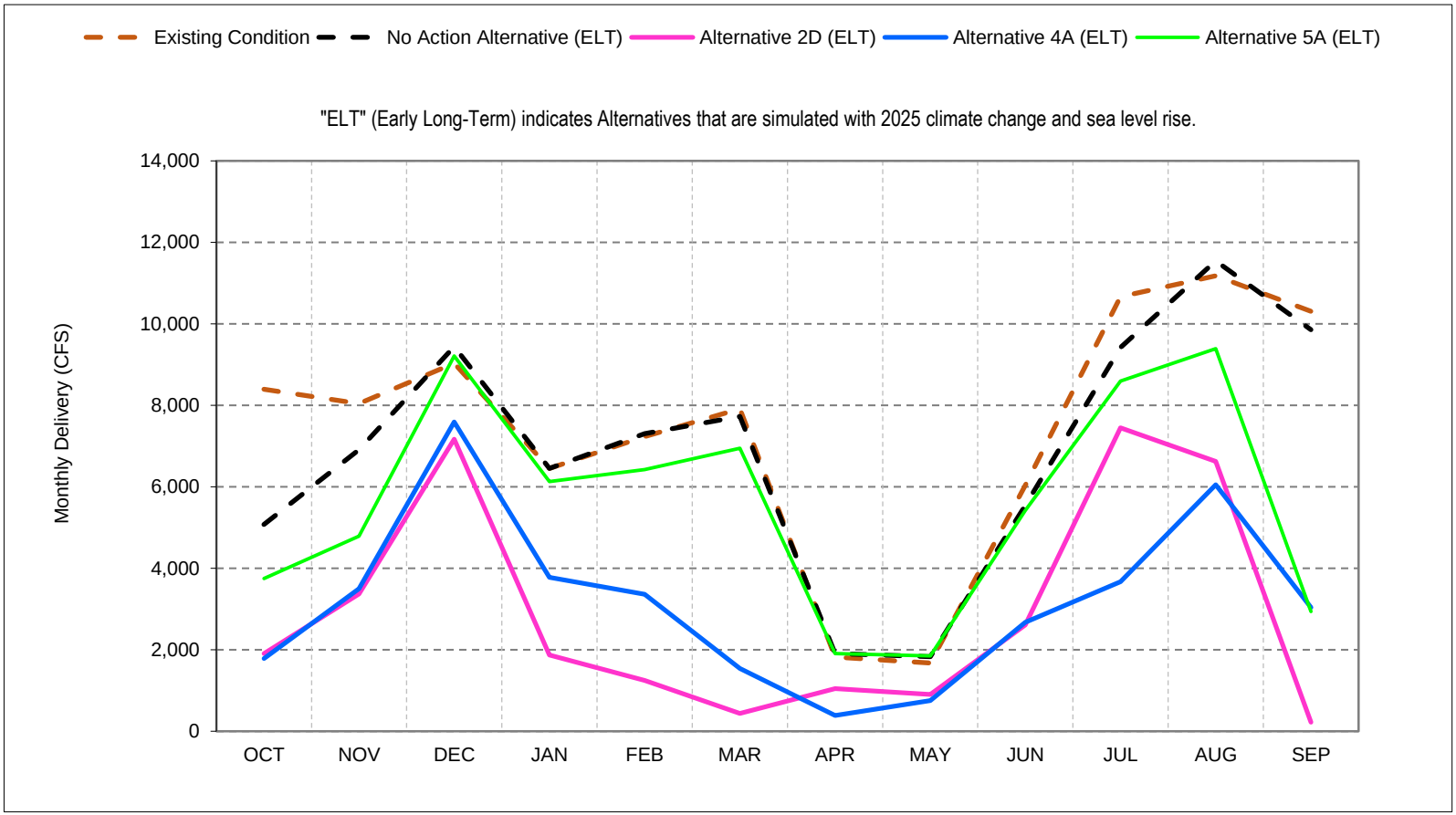


Figure C-51-1. SWP and CVP South Delta Exports, Long-Term Average Delivery



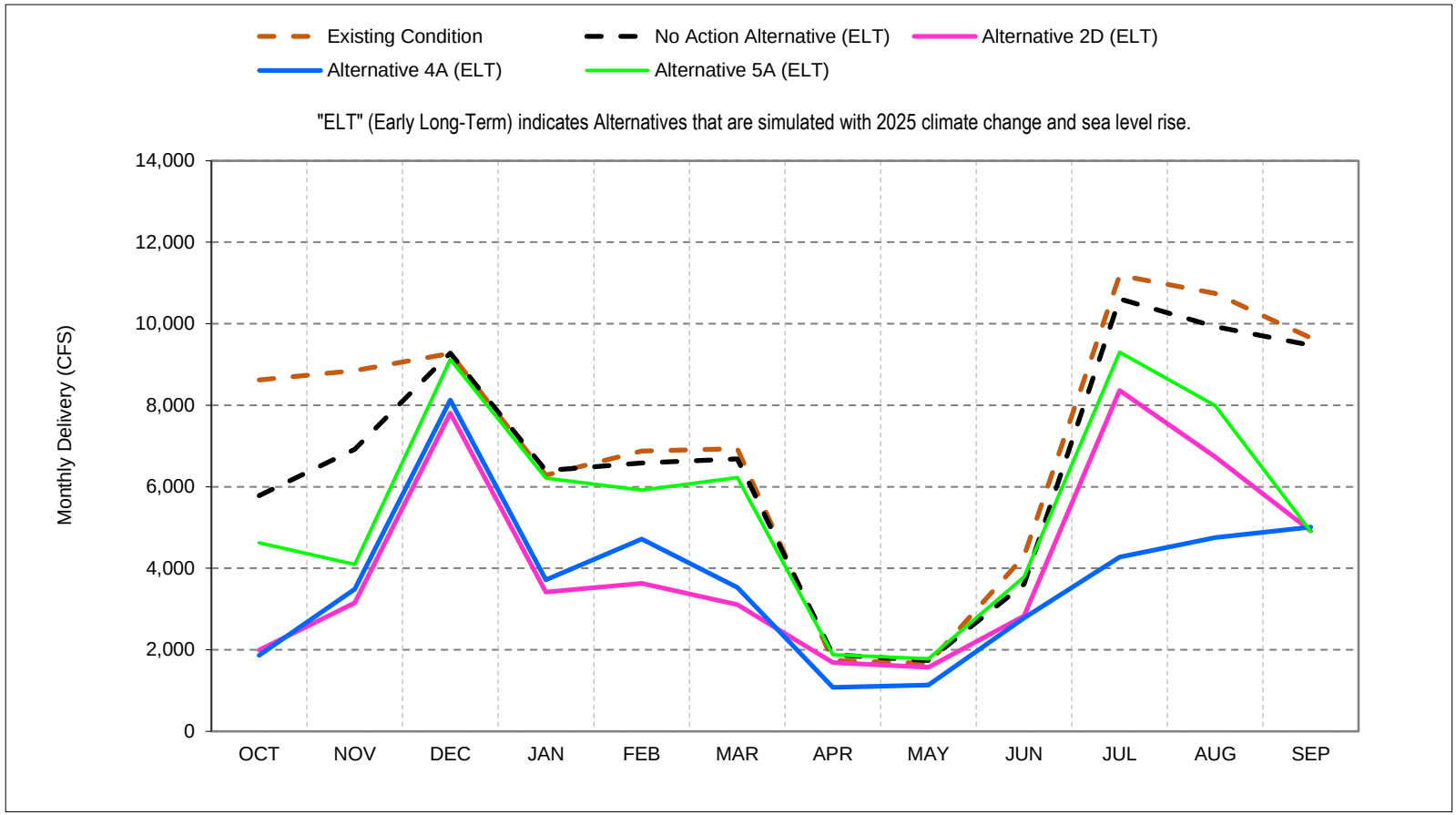
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-51-2. SWP and CVP South Delta Exports, Wet Year* Average Delivery



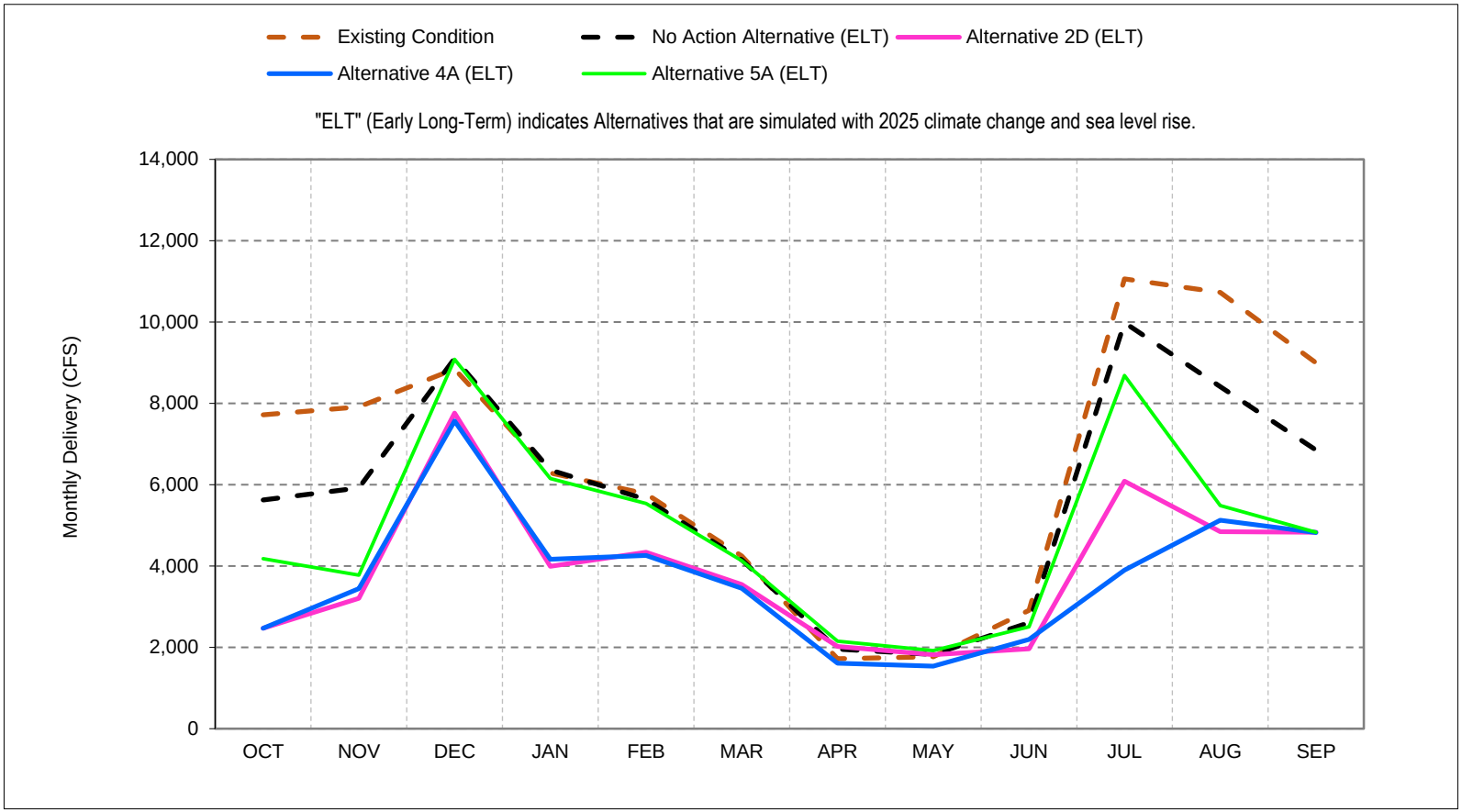
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-51-3. SWP and CVP South Delta Exports, Above Normal Year* Average Delivery



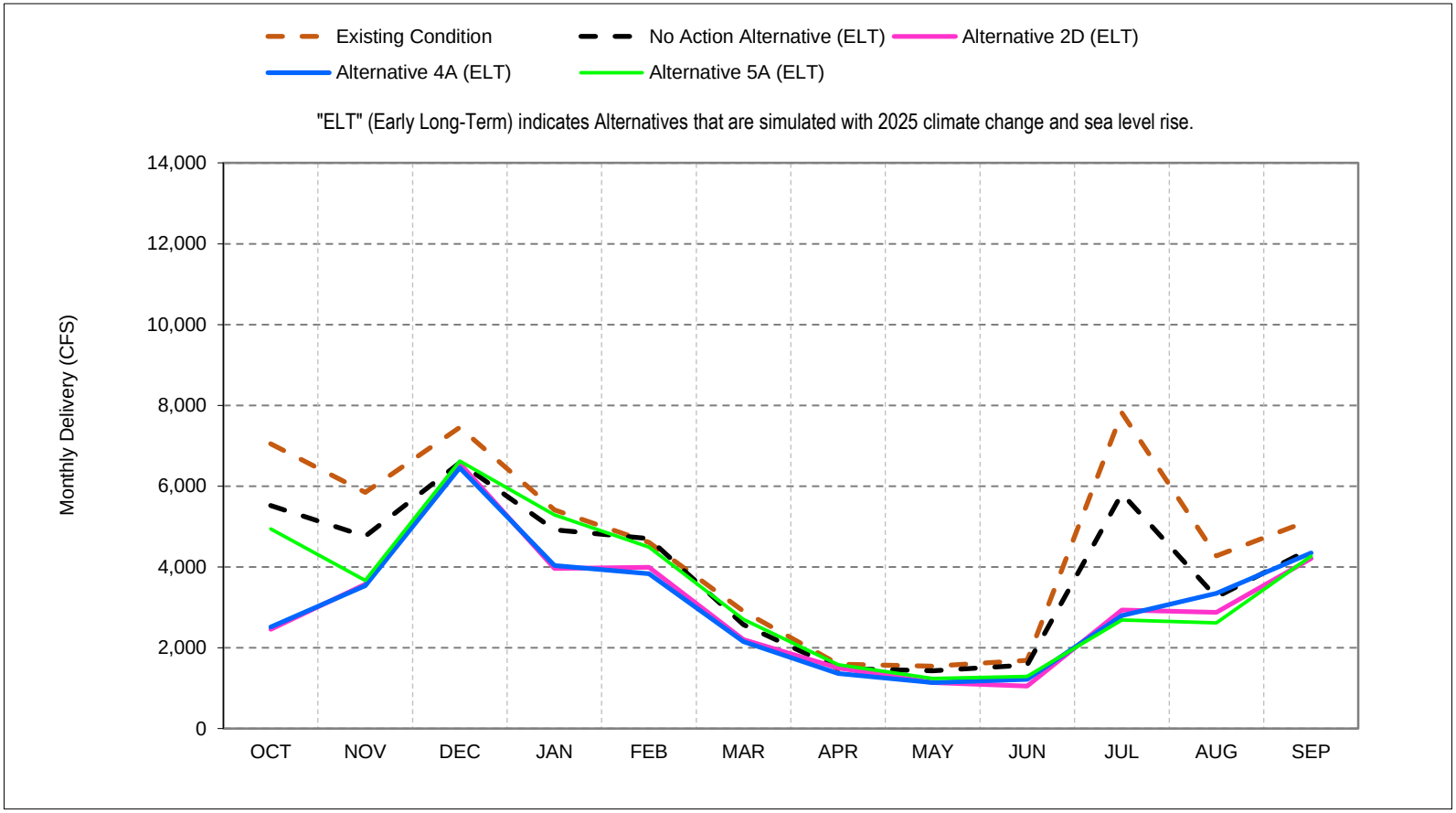
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-51-4. SWP and CVP South Delta Exports, Below Normal Year* Average Delivery



*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-51-5. SWP and CVP South Delta Exports, Dry Year* Average Delivery



*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-51-6. SWP and CVP South Delta Exports, Critical Year* Average Delivery

Table C-51-1-1. South Delta Exports, Monthly Delivery Rate

Existing Condition

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	11,044	10,934	11,317	8,932	10,779	9,816	3,240	3,381	9,032	11,595	11,725	11,158	8,711
20%	10,967	10,917	11,235	7,749	9,327	9,134	2,276	2,297	7,236	11,555	11,685	11,137	8,397
30%	10,389	10,903	9,988	6,883	8,257	8,647	2,055	1,847	5,468	11,502	11,669	11,041	8,035
40%	9,581	10,117	9,200	6,799	7,707	7,383	1,842	1,660	5,125	11,426	11,551	10,345	7,633
50%	8,972	9,052	8,500	6,435	6,855	6,604	1,714	1,570	4,469	11,384	11,461	9,891	7,261
60%	7,704	8,374	8,004	6,365	6,598	5,594	1,607	1,500	3,506	11,284	11,350	9,439	6,991
70%	7,180	7,212	7,638	5,905	5,969	4,804	1,500	1,500	3,080	11,076	11,058	9,029	6,612
80%	6,139	6,249	7,096	5,053	4,978	4,513	1,500	1,500	2,787	10,397	8,961	8,218	6,250
90%	4,847	4,660	6,185	4,460	3,823	2,260	1,500	1,500	1,598	8,986	4,363	4,996	4,761
Long Term													
Full Simulation Period[a]	8,389	8,488	8,747	6,627	7,105	6,562	2,076	2,188	4,844	10,650	10,084	9,328	7,091
Water Year Types[b]													
Wet (32%)	9,345	10,117	8,867	7,695	9,241	9,030	2,847	3,294	7,386	11,377	11,461	10,853	8,459
Above Normal (15%)	8,395	8,039	9,033	6,447	7,231	7,913	1,819	1,675	6,033	10,665	11,177	10,304	7,394
Below Normal (17%)	8,618	8,849	9,268	6,281	6,879	6,933	1,736	1,667	4,295	11,188	10,742	9,650	7,175
Dry (22%)	7,721	7,916	8,841	6,286	5,773	4,243	1,718	1,765	2,907	11,061	10,726	8,999	6,496
Critical (15%)	7,049	5,845	7,453	5,411	4,613	2,910	1,595	1,545	1,692	7,815	4,278	5,169	4,615

No Action Alternative (ELT)

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	8,224	10,751	11,696	9,904	10,560	10,610	3,493	3,654	8,309	11,605	11,780	11,280	8,255
20%	6,666	8,939	11,081	8,122	9,357	9,346	2,489	2,333	5,888	11,551	11,780	11,071	7,710
30%	6,465	7,699	10,434	6,960	8,207	8,668	2,159	1,922	5,301	11,329	11,780	10,319	7,456
40%	6,093	6,777	9,743	6,780	7,613	7,170	1,924	1,765	4,834	11,157	11,630	9,461	7,128
50%	5,732	6,069	8,646	6,579	6,785	6,520	1,764	1,621	3,726	10,812	11,511	9,053	6,632
60%	5,457	5,690	8,050	6,390	6,605	5,412	1,631	1,507	3,214	9,952	11,100	8,610	6,134
70%	5,043	5,176	7,560	6,027	5,752	4,602	1,506	1,500	2,883	9,256	8,466	6,741	5,914
80%	4,481	4,787	7,218	5,086	4,850	4,321	1,500	1,500	1,682	8,038	7,655	4,787	5,429
90%	3,972	4,416	5,675	4,245	3,769	2,180	1,500	1,500	1,442	6,713	1,979	4,510	4,422
Long Term													
Full Simulation Period[a]	5,881	6,750	8,837	6,738	7,164	6,561	2,181	2,302	4,423	9,659	9,425	8,318	6,520
Water Year Types[b]													
Wet (32%)	6,651	8,075	9,179	8,155	9,608	9,468	2,948	3,555	6,921	10,806	11,727	9,790	8,074
Above Normal (15%)	5,076	6,913	9,438	6,447	7,303	7,728	1,904	1,832	5,542	9,418	11,542	9,854	6,917
Below Normal (17%)	5,779	6,921	9,278	6,397	6,583	6,681	1,881	1,735	3,610	10,610	9,930	9,469	6,573
Dry (22%)	5,626	5,922	9,103	6,363	5,635	4,152	1,956	1,824	2,601	9,985	8,409	6,848	5,702
Critical (15%)	5,522	4,761	6,581	4,917	4,702	2,571	1,484	1,432	1,577	5,818	3,253	4,455	3,923

No Action Alternative (ELT) minus Existing Condition

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	-2,820	-183	379	972	-219	793	253	273	-723	10	55	122	-456
20%	-4,302	-1,977	-153	374	30	212	213	37	-1,348	-4	95	-65	-687
30%	-3,924	-3,204	446	76	-49	21	104	76	-167	-173	111	-722	-579
40%	-3,489	-3,341	543	-19	-95	-213	82	105	-291	-269	79	-884	-505
50%	-3,240	-2,983	146	143	-70	-84	50	51	-743	-572	50	-838	-629
60%	-2,247	-2,684	46	25	7	-181	23	7	-292	-1,332	-249	-830	-857
70%	-2,137	-2,035	-78	122	-217	-202	6	0	-196	-1,819	-2,592	-2,288	-698
80%	-1,657	-1,462	122	34	-128	-192	0	0	-1,104	-2,359	-1,306	-3,431	-821
90%	-875	-243	-510	-215	-54	-79	0	0	-156	-2,274	-2,384	-486	-339
Long Term													
Full Simulation Period[a]	-2,508	-1,738	90	110	59	-1	106	114	-420	-990	-659	-1,010	-571
Water Year Types[b]													
Wet (32%)	-2,694	-2,042	313	460	367	438	101	261	-465	-571	266	-1,062	-386
Above Normal (15%)	-3,318	-1,126	405	0	71	-185	85	156	-490	-1,247	365	-450	-478
Below Normal (17%)	-2,839	-1,927	10	116	-296	-252	145	68	-685	-578	-812	-181	-603
Dry (22%)	-2,095	-1,993	261	77	-138	-92	239	59	-306	-1,076	-2,317	-2,151	-794
Critical (15%)	-1,527	-1,085	-872	-494	89	-339	-111	-113	-115	-1,997	-1,025	-714	-692

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-51-1-2. South Delta Exports, Monthly Delivery Rate

Existing Condition

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	11,044	10,934	11,317	8,932	10,779	9,816	3,240	3,381	9,032	11,595	11,725	11,158	8,711
20%	10,967	10,917	11,235	7,749	9,327	9,134	2,276	2,297	7,236	11,555	11,685	11,137	8,397
30%	10,389	10,903	9,988	6,883	8,257	8,647	2,055	1,847	5,468	11,502	11,669	11,041	8,035
40%	9,581	10,117	9,200	6,799	7,707	7,383	1,842	1,660	5,125	11,426	11,551	10,345	7,633
50%	8,972	9,052	8,500	6,435	6,855	6,604	1,714	1,570	4,469	11,384	11,461	9,891	7,261
60%	7,704	8,374	8,004	6,365	6,598	5,594	1,607	1,500	3,506	11,284	11,350	9,439	6,991
70%	7,180	7,212	7,638	5,905	5,969	4,804	1,500	1,500	3,080	11,076	11,058	9,029	6,612
80%	6,139	6,249	7,096	5,053	4,978	4,513	1,500	1,500	2,787	10,397	8,961	8,218	6,250
90%	4,847	4,660	6,185	4,460	3,823	2,260	1,500	1,500	1,598	8,986	4,363	4,996	4,761
Long Term													
Full Simulation Period[a]	8,389	8,488	8,747	6,627	7,105	6,562	2,076	2,188	4,844	10,650	10,084	9,328	7,091
Water Year Types[b]													
Wet (32%)	9,345	10,117	8,867	7,695	9,241	9,030	2,847	3,294	7,386	11,377	11,461	10,853	8,459
Above Normal (15%)	8,395	8,039	9,033	6,447	7,231	7,913	1,819	1,675	6,033	10,665	11,177	10,304	7,394
Below Normal (17%)	8,618	8,849	9,268	6,281	6,879	6,933	1,736	1,667	4,295	11,188	10,742	9,650	7,175
Dry (22%)	7,721	7,916	8,841	6,286	5,773	4,243	1,718	1,765	2,907	11,061	10,726	8,999	6,496
Critical (15%)	7,049	5,845	7,453	5,411	4,613	2,910	1,595	1,545	1,692	7,815	4,278	5,169	4,615

Alternative 2D (ELT)

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	2,823	6,066	9,664	5,836	5,011	4,272	2,520	2,105	3,520	11,629	9,947	5,262	4,326
20%	2,753	5,425	9,380	4,896	4,782	3,917	1,902	1,688	3,362	10,268	7,035	4,851	3,843
30%	2,733	5,028	8,112	4,422	4,106	3,463	1,619	1,443	3,023	9,349	6,207	4,669	3,688
40%	2,710	4,776	7,062	3,717	3,586	1,921	1,489	1,343	2,654	7,665	5,430	4,507	3,418
50%	2,662	4,333	6,736	1,962	2,299	1,614	1,287	1,212	1,698	6,629	4,966	3,691	3,188
60%	2,552	1,458	6,470	1,520	1,504	871	1,200	1,035	1,665	5,584	4,334	455	2,976
70%	1,801	0	5,566	1,502	0	0	1,082	927	1,495	4,174	3,979	74	2,686
80%	1,055	0	5,105	57	0	0	0	388	1,239	2,881	3,576	0	2,428
90%	580	0	3,667	0	0	0	0	0	355	1,692	2,729	0	2,150
Long Term													
Full Simulation Period[a]	2,110	3,035	6,670	2,691	2,402	1,842	1,267	1,141	2,103	6,768	5,544	2,594	3,181
Water Year Types[b]													
Wet (32%)	1,856	2,449	5,120	1,187	195	466	516	553	2,064	7,837	6,124	143	2,376
Above Normal (15%)	1,910	3,372	7,169	1,875	1,250	435	1,048	902	2,610	7,448	6,626	226	2,906
Below Normal (17%)	1,991	3,153	7,808	3,418	3,633	3,110	1,683	1,567	2,827	8,363	6,730	4,915	4,100
Dry (22%)	2,468	3,205	7,759	3,994	4,339	3,541	2,020	1,820	1,960	6,085	4,842	4,832	3,905
Critical (15%)	2,459	3,576	6,568	3,965	3,992	2,204	1,502	1,139	1,051	2,934	2,878	4,208	3,040

Alternative 2D (ELT) minus Existing Condition

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	-8,221	-4,868	-1,652	-3,096	-5,768	-5,545	-720	-1,276	-5,512	34	-1,778	-5,896	-4,385
20%	-8,214	-5,492	-1,854	-2,853	-4,546	-5,217	-373	-609	-3,874	-1,286	-4,650	-6,285	-4,554
30%	-7,657	-5,875	-1,877	-2,461	-4,151	-5,184	-435	-404	-2,445	-2,153	-5,461	-6,373	-4,347
40%	-6,872	-5,342	-2,138	-3,081	-4,121	-5,461	-352	-318	-2,471	-3,760	-6,121	-5,838	-4,215
50%	-6,310	-4,719	-1,764	-4,473	-4,556	-4,990	-427	-357	-2,771	-4,756	-6,495	-6,200	-4,073
60%	-5,152	-6,916	-1,534	-4,845	-5,094	-4,722	-407	-465	-1,841	-5,700	-7,016	-8,984	-4,015
70%	-5,379	-7,212	-2,073	-4,403	-5,969	-4,804	-418	-573	-1,584	-6,902	-7,079	-8,955	-3,927
80%	-5,083	-6,249	-1,992	-4,995	-4,978	-4,513	-1,500	-1,112	-1,547	-7,516	-5,384	-8,218	-3,822
90%	-4,267	-4,660	-2,518	-4,460	-3,823	-2,260	-1,500	-1,500	-1,243	-7,295	-1,633	-4,996	-2,611
Long Term													
Full Simulation Period[a]	-6,280	-5,453	-2,077	-3,936	-4,703	-4,720	-808	-1,047	-2,741	-3,882	-4,540	-6,735	-3,910
Water Year Types[b]													
Wet (32%)	-7,488	-7,668	-3,746	-6,508	-9,046	-8,565	-2,331	-2,741	-5,322	-3,539	-5,337	-10,710	-6,083
Above Normal (15%)	-6,485	-4,667	-1,864	-4,572	-5,982	-7,478	-771	-774	-3,423	-3,218	-4,551	-10,079	-4,489
Below Normal (17%)	-6,627	-5,695	-1,460	-2,863	-3,246	-3,823	-53	-99	-1,468	-2,825	-4,012	-4,735	-3,076
Dry (22%)	-5,253	-4,711	-1,082	-2,292	-1,434	-702	302	55	-947	-4,976	-5,885	-4,167	-2,591
Critical (15%)	-4,591	-2,270	-885	-1,446	-621	-706	-93	-407	-641	-4,880	-1,400	-961	-1,575

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-51-1-3. South Delta Exports, Monthly Delivery Rate

Existing Condition

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	11,044	10,934	11,317	8,932	10,779	9,816	3,240	3,381	9,032	11,595	11,725	11,158	8,711
20%	10,967	10,917	11,235	7,749	9,327	9,134	2,276	2,297	7,236	11,555	11,685	11,137	8,397
30%	10,389	10,903	9,988	6,883	8,257	8,647	2,055	1,847	5,468	11,502	11,669	11,041	8,035
40%	9,581	10,117	9,200	6,799	7,707	7,383	1,842	1,660	5,125	11,426	11,551	10,345	7,633
50%	8,972	9,052	8,500	6,435	6,855	6,604	1,714	1,570	4,469	11,384	11,461	9,891	7,261
60%	7,704	8,374	8,004	6,365	6,598	5,594	1,607	1,500	3,506	11,284	11,350	9,439	6,991
70%	7,180	7,212	7,638	5,905	5,969	4,804	1,500	1,500	3,080	11,076	11,058	9,029	6,612
80%	6,139	6,249	7,096	5,053	4,978	4,513	1,500	1,500	2,787	10,397	8,961	8,218	6,250
90%	4,847	4,660	6,185	4,460	3,823	2,260	1,500	1,500	1,598	8,986	4,363	4,996	4,761
Long Term													
Full Simulation Period[a]	8,389	8,488	8,747	6,627	7,105	6,562	2,076	2,188	4,844	10,650	10,084	9,328	7,091
Water Year Types[b]													
Wet (32%)	9,345	10,117	8,867	7,695	9,241	9,030	2,847	3,294	7,386	11,377	11,461	10,853	8,459
Above Normal (15%)	8,395	8,039	9,033	6,447	7,231	7,913	1,819	1,675	6,033	10,665	11,177	10,304	7,394
Below Normal (17%)	8,618	8,849	9,268	6,281	6,879	6,933	1,736	1,667	4,295	11,188	10,742	9,650	7,175
Dry (22%)	7,721	7,916	8,841	6,286	5,773	4,243	1,718	1,765	2,907	11,061	10,726	8,999	6,496
Critical (15%)	7,049	5,845	7,453	5,411	4,613	2,910	1,595	1,545	1,692	7,815	4,278	5,169	4,615

Alternative 4A (ELT)

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	2,846	6,246	9,729	5,872	5,537	4,341	1,776	1,874	3,592	6,579	7,536	5,347	3,946
20%	2,774	5,753	9,396	5,523	5,197	4,130	1,472	1,481	3,400	5,569	6,660	4,929	3,845
30%	2,738	5,085	8,314	5,225	4,987	3,752	1,272	1,347	3,284	5,054	6,099	4,742	3,698
40%	2,715	4,822	7,492	4,813	4,529	2,616	1,178	1,186	2,929	4,565	5,751	4,530	3,550
50%	2,664	4,467	7,014	4,491	3,981	2,106	1,045	1,038	2,647	4,251	5,297	4,319	3,435
60%	2,566	3,659	6,637	4,017	3,273	1,681	666	929	1,680	3,934	4,751	3,123	3,344
70%	2,050	1,288	6,302	2,382	2,398	1,568	0	766	1,665	3,732	4,348	3,000	3,256
80%	1,177	0	5,515	1,520	2,050	1,368	0	0	1,469	3,429	3,997	3,000	3,026
90%	615	0	5,104	1,503	1,485	661	0	0	1,367	2,701	3,588	3,000	2,736
Long Term													
Full Simulation Period[a]	2,178	3,396	7,204	3,889	3,664	2,456	908	1,067	2,451	4,451	5,324	4,050	3,420
Water Year Types[b]													
Wet (32%)	2,175	3,200	6,627	3,777	2,749	1,752	358	823	2,918	6,056	6,347	3,330	3,343
Above Normal (15%)	1,785	3,498	7,588	3,776	3,360	1,541	391	751	2,673	3,670	6,053	3,040	3,177
Below Normal (17%)	1,862	3,489	8,125	3,716	4,720	3,531	1,078	1,131	2,782	4,272	4,749	5,008	3,705
Dry (22%)	2,465	3,441	7,565	4,166	4,255	3,447	1,610	1,533	2,193	3,898	5,127	4,818	3,710
Critical (15%)	2,515	3,540	6,457	4,034	3,834	2,157	1,364	1,141	1,221	2,795	3,347	4,350	3,063

Alternative 4A (ELT) minus Existing Condition

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	-8,198	-4,688	-1,587	-3,060	-5,242	-5,475	-1,464	-1,508	-5,440	-5,016	-4,189	-5,811	-4,765
20%	-8,193	-5,163	-1,838	-2,225	-4,131	-5,004	-804	-815	-3,836	-5,986	-5,025	-6,207	-4,553
30%	-7,652	-5,818	-1,674	-1,659	-3,270	-4,895	-783	-500	-2,184	-6,448	-5,570	-6,299	-4,337
40%	-6,867	-5,295	-1,708	-1,986	-3,178	-4,767	-663	-474	-2,196	-6,860	-5,801	-5,814	-4,084
50%	-6,308	-4,585	-1,486	-1,944	-2,874	-4,498	-669	-532	-1,822	-7,134	-6,163	-5,572	-3,825
60%	-5,138	-4,714	-1,367	-2,348	-3,325	-3,912	-941	-571	-1,826	-7,350	-6,598	-6,317	-3,647
70%	-5,130	-5,924	-1,337	-3,523	-3,571	-3,236	-1,500	-734	-1,415	-7,344	-6,710	-6,029	-3,357
80%	-4,962	-6,249	-1,581	-3,533	-2,928	-3,145	-1,500	-1,500	-1,318	-6,968	-4,963	-5,218	-3,224
90%	-4,232	-4,660	-1,081	-2,957	-2,338	-1,599	-1,500	-1,500	-231	-6,285	-774	-1,996	-2,025
Long Term													
Full Simulation Period[a]	-6,211	-5,092	-1,543	-2,738	-3,441	-4,106	-1,168	-1,120	-2,393	-6,198	-4,760	-5,278	-3,671
Water Year Types[b]													
Wet (32%)	-7,170	-6,917	-2,240	-3,918	-6,492	-7,279	-2,489	-2,472	-4,469	-5,320	-5,115	-7,522	-5,117
Above Normal (15%)	-6,610	-4,541	-1,445	-2,672	-3,871	-6,372	-1,427	-924	-3,360	-6,996	-5,124	-7,264	-4,217
Below Normal (17%)	-6,756	-5,360	-1,143	-2,565	-2,159	-3,402	-659	-536	-1,513	-6,916	-5,992	-4,642	-3,470
Dry (22%)	-5,256	-4,474	-1,276	-2,120	-1,518	-797	-107	-232	-715	-7,163	-5,599	-4,181	-2,786
Critical (15%)	-4,534	-2,305	-996	-1,378	-779	-753	-231	-404	-471	-5,020	-931	-819	-1,552

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-51-1-4. South Delta Exports, Monthly Delivery Rate

Existing Condition

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	11,044	10,934	11,317	8,932	10,779	9,816	3,240	3,381	9,032	11,595	11,725	11,158	8,711
20%	10,967	10,917	11,235	7,749	9,327	9,134	2,276	2,297	7,236	11,555	11,685	11,137	8,397
30%	10,389	10,903	9,988	6,883	8,257	8,647	2,055	1,847	5,468	11,502	11,669	11,041	8,035
40%	9,581	10,117	9,200	6,799	7,707	7,383	1,842	1,660	5,125	11,426	11,551	10,345	7,633
50%	8,972	9,052	8,500	6,435	6,855	6,604	1,714	1,570	4,469	11,384	11,461	9,891	7,261
60%	7,704	8,374	8,004	6,365	6,598	5,594	1,607	1,500	3,506	11,284	11,350	9,439	6,991
70%	7,180	7,212	7,638	5,905	5,969	4,804	1,500	1,500	3,080	11,076	11,058	9,029	6,612
80%	6,139	6,249	7,096	5,053	4,978	4,513	1,500	1,500	2,787	10,397	8,961	8,218	6,250
90%	4,847	4,660	6,185	4,460	3,823	2,260	1,500	1,500	1,598	8,986	4,363	4,996	4,761
Long Term													
Full Simulation Period[a]	8,389	8,488	8,747	6,627	7,105	6,562	2,076	2,188	4,844	10,650	10,084	9,328	7,091
Water Year Types[b]													
Wet (32%)	9,345	10,117	8,867	7,695	9,241	9,030	2,847	3,294	7,386	11,377	11,461	10,853	8,459
Above Normal (15%)	8,395	8,039	9,033	6,447	7,231	7,913	1,819	1,675	6,033	10,665	11,177	10,304	7,394
Below Normal (17%)	8,618	8,849	9,268	6,281	6,879	6,933	1,736	1,667	4,295	11,188	10,742	9,650	7,175
Dry (22%)	7,721	7,916	8,841	6,286	5,773	4,243	1,718	1,765	2,907	11,061	10,726	8,999	6,496
Critical (15%)	7,049	5,845	7,453	5,411	4,613	2,910	1,595	1,545	1,692	7,815	4,278	5,169	4,615

Alternative 5A (ELT)

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	6,632	9,312	11,634	8,779	9,141	9,276	3,499	3,648	7,453	11,309	11,549	5,824	6,623
20%	6,273	6,933	10,958	7,824	8,170	8,324	2,489	2,393	6,004	11,226	11,044	5,261	6,251
30%	5,937	5,541	10,282	6,917	7,536	7,106	2,191	1,946	5,345	10,706	10,280	4,856	5,918
40%	5,483	5,237	9,539	6,751	6,704	6,553	2,095	1,769	4,706	10,086	8,810	4,719	5,646
50%	4,483	4,761	8,676	6,547	6,436	5,902	1,801	1,596	3,725	9,269	7,372	4,528	5,348
60%	3,965	4,095	7,807	6,250	5,862	4,979	1,708	1,500	3,267	8,192	5,723	4,215	5,038
70%	3,126	1,305	7,410	5,752	4,967	4,546	1,534	1,500	3,001	7,013	4,760	3,151	4,861
80%	2,452	2	6,769	4,899	4,411	3,707	1,500	1,500	1,577	6,044	3,396	1,160	4,455
90%	1,379	0	5,919	4,248	3,680	2,287	1,500	1,463	1,262	1,734	2,430	0	3,625
Long Term													
Full Simulation Period[a]	4,471	4,354	8,649	6,474	6,400	5,917	2,219	2,207	4,307	8,224	7,123	3,837	5,348
Water Year Types[b]													
Wet (32%)	4,709	5,009	8,772	7,544	8,126	7,999	2,885	3,246	6,710	9,707	8,822	2,793	6,360
Above Normal (15%)	3,750	4,790	9,207	6,126	6,419	6,946	1,910	1,847	5,417	8,597	9,392	2,942	5,612
Below Normal (17%)	4,621	4,095	9,124	6,212	5,921	6,226	1,878	1,781	3,789	9,304	7,992	4,901	5,487
Dry (22%)	4,177	3,775	9,082	6,152	5,539	4,126	2,152	1,919	2,506	8,686	5,486	4,827	4,869
Critical (15%)	4,943	3,669	6,625	5,289	4,490	2,702	1,582	1,243	1,295	2,687	2,618	4,269	3,451

Alternative 5A (ELT) minus Existing Condition

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	-4,411	-1,622	317	-153	-1,638	-540	259	267	-1,579	-285	-176	-5,334	-2,088
20%	-4,694	-3,984	-277	75	-1,157	-810	213	96	-1,232	-329	-641	-5,875	-2,146
30%	-4,452	-5,362	294	33	-720	-1,541	136	100	-124	-796	-1,389	-6,185	-2,117
40%	-4,098	-4,880	339	-47	-1,004	-830	254	109	-419	-1,340	-2,741	-5,626	-1,988
50%	-4,489	-4,291	176	112	-419	-702	87	27	-744	-2,115	-4,088	-5,363	-1,913
60%	-3,738	-4,278	-197	-115	-736	-615	101	0	-239	-3,092	-5,627	-5,225	-1,953
70%	-4,054	-5,907	-228	-153	-1,003	-258	34	0	-79	-4,062	-6,298	-5,878	-1,752
80%	-3,687	-6,247	-327	-154	-568	-806	0	0	-1,210	-4,353	-5,565	-7,058	-1,795
90%	-3,468	-4,660	-265	-212	-142	27	0	-37	-336	-7,252	-1,933	-4,996	-1,136
Long Term													
Full Simulation Period[a]	-3,918	-4,134	-98	-154	-705	-645	143	19	-537	-2,425	-2,961	-5,491	-1,742
Water Year Types[b]													
Wet (32%)	-4,636	-5,108	-95	-150	-1,115	-1,032	38	-48	-676	-1,669	-2,640	-8,060	-2,099
Above Normal (15%)	-4,644	-3,249	175	-321	-812	-967	91	172	-615	-2,069	-1,785	-7,362	-1,782
Below Normal (17%)	-3,997	-4,753	-145	-69	-959	-707	142	114	-505	-1,884	-2,750	-4,749	-1,689
Dry (22%)	-3,544	-4,141	241	-134	-234	-117	434	154	-401	-2,375	-5,240	-4,172	-1,627
Critical (15%)	-2,106	-2,176	-828	-123	-122	-208	-12	-302	-397	-5,128	-1,659	-900	-1,164

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-51-1-5. South Delta Exports, Monthly Delivery Rate

No Action Alternative (ELT)

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	8,224	10,751	11,696	9,904	10,560	10,610	3,493	3,654	8,309	11,605	11,780	11,280	8,255
20%	6,666	8,939	11,081	8,122	9,357	9,346	2,489	2,333	5,888	11,551	11,780	11,071	7,710
30%	6,465	7,699	10,434	6,960	8,207	8,668	2,159	1,922	5,301	11,329	11,780	10,319	7,456
40%	6,093	6,777	9,743	6,780	7,613	7,170	1,924	1,765	4,834	11,157	11,630	9,461	7,128
50%	5,732	6,069	8,646	6,579	6,785	6,520	1,764	1,621	3,726	10,812	11,511	9,053	6,632
60%	5,457	5,690	8,050	6,390	6,605	5,412	1,631	1,507	3,214	9,952	11,100	8,610	6,134
70%	5,043	5,176	7,560	6,027	5,752	4,602	1,506	1,500	2,883	9,256	8,466	6,741	5,914
80%	4,481	4,787	7,218	5,086	4,850	4,321	1,500	1,500	1,682	8,038	7,655	4,787	5,429
90%	3,972	4,416	5,675	4,245	3,769	2,180	1,500	1,500	1,442	6,713	1,979	4,510	4,422
Long Term													
Full Simulation Period[a]	5,881	6,750	8,837	6,738	7,164	6,561	2,181	2,302	4,423	9,659	9,425	8,318	6,520
Water Year Types[b]													
Wet (32%)	6,651	8,075	9,179	8,155	9,608	9,468	2,948	3,555	6,921	10,806	11,727	9,790	8,074
Above Normal (15%)	5,076	6,913	9,438	6,447	7,303	7,728	1,904	1,832	5,542	9,418	11,542	9,854	6,917
Below Normal (17%)	5,779	6,921	9,278	6,397	6,583	6,681	1,881	1,735	3,610	10,610	9,930	9,469	6,573
Dry (22%)	5,626	5,922	9,103	6,363	5,635	4,152	1,956	1,824	2,601	9,985	8,409	6,848	5,702
Critical (15%)	5,522	4,761	6,581	4,917	4,702	2,571	1,484	1,432	1,577	5,818	3,253	4,455	3,923

Alternative 2D (ELT)

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	2,823	6,066	9,664	5,836	5,011	4,272	2,520	2,105	3,520	11,629	9,947	5,262	4,326
20%	2,753	5,425	9,380	4,896	4,782	3,917	1,902	1,688	3,362	10,268	7,035	4,851	3,843
30%	2,733	5,028	8,112	4,422	4,106	3,463	1,619	1,443	3,023	9,349	6,207	4,669	3,688
40%	2,710	4,776	7,062	3,717	3,586	1,921	1,489	1,343	2,654	7,665	5,430	4,507	3,418
50%	2,662	4,333	6,736	1,962	2,299	1,614	1,287	1,212	1,698	6,629	4,966	3,691	3,188
60%	2,552	1,458	6,470	1,520	1,504	871	1,200	1,035	1,665	5,584	4,334	455	2,976
70%	1,801	0	5,566	1,502	0	0	1,082	927	1,495	4,174	3,979	74	2,686
80%	1,055	0	5,105	57	0	0	0	388	1,239	2,881	3,576	0	2,428
90%	580	0	3,667	0	0	0	0	0	355	1,692	2,729	0	2,150
Long Term													
Full Simulation Period[a]	2,110	3,035	6,670	2,691	2,402	1,842	1,267	1,141	2,103	6,768	5,544	2,594	3,181
Water Year Types[b]													
Wet (32%)	1,856	2,449	5,120	1,187	195	466	516	553	2,064	7,837	6,124	143	2,376
Above Normal (15%)	1,910	3,372	7,169	1,875	1,250	435	1,048	902	2,610	7,448	6,626	226	2,906
Below Normal (17%)	1,991	3,153	7,808	3,418	3,633	3,110	1,683	1,567	2,827	8,363	6,730	4,915	4,100
Dry (22%)	2,468	3,205	7,759	3,994	4,339	3,541	2,020	1,820	1,960	6,085	4,842	4,832	3,905
Critical (15%)	2,459	3,576	6,568	3,965	3,992	2,204	1,502	1,139	1,051	2,934	2,878	4,208	3,040

Alternative 2D (ELT) minus No Action Alternative (ELT)

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	-5,401	-4,685	-2,031	-4,068	-5,548	-6,338	-973	-1,549	-4,790	24	-1,833	-6,018	-3,929
20%	-3,912	-3,514	-1,701	-3,226	-4,575	-5,429	-586	-646	-2,526	-1,282	-4,745	-6,220	-3,867
30%	-3,733	-2,671	-2,322	-2,537	-4,101	-5,205	-540	-480	-2,278	-1,980	-5,573	-5,650	-3,768
40%	-3,383	-2,001	-2,681	-3,062	-4,026	-5,249	-434	-423	-2,180	-3,491	-6,200	-4,954	-3,710
50%	-3,069	-1,736	-1,910	-4,617	-4,486	-4,906	-477	-409	-2,028	-4,184	-6,545	-5,362	-3,444
60%	-2,905	-4,232	-1,580	-4,870	-5,102	-4,541	-430	-472	-1,549	-4,367	-6,767	-8,154	-3,158
70%	-3,242	-5,176	-1,995	-4,524	-5,752	-4,602	-424	-573	-1,388	-5,083	-4,488	-6,667	-3,228
80%	-3,426	-4,787	-2,113	-5,029	-4,850	-4,321	-1,500	-1,112	-443	-5,157	-4,079	-4,787	-3,001
90%	-3,392	-4,416	-2,007	-4,245	-3,769	-2,180	-1,500	-1,500	-1,087	-5,021	750	-4,510	-2,272
Long Term													
Full Simulation Period[a]	-3,772	-3,715	-2,167	-4,046	-4,762	-4,719	-914	-1,160	-2,320	-2,892	-3,880	-5,724	-3,339
Water Year Types[b]													
Wet (32%)	-4,795	-5,626	-4,059	-6,968	-9,413	-9,002	-2,432	-3,002	-4,857	-2,969	-5,603	-9,648	-5,698
Above Normal (15%)	-3,166	-3,541	-2,269	-4,572	-6,053	-7,293	-856	-930	-2,932	-1,971	-4,916	-9,629	-4,011
Below Normal (17%)	-3,788	-3,768	-1,470	-2,979	-2,950	-3,571	-198	-168	-783	-2,246	-3,199	-4,554	-2,473
Dry (22%)	-3,158	-2,718	-1,343	-2,369	-1,296	-611	63	-4	-641	-3,901	-3,568	-2,017	-1,797
Critical (15%)	-3,063	-1,185	-13	-952	-710	-367	18	-293	-526	-2,883	-375	-247	-883

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-51-1-6. South Delta Exports, Monthly Delivery Rate

No Action Alternative (ELT)

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	8,224	10,751	11,696	9,904	10,560	10,610	3,493	3,654	8,309	11,605	11,780	11,280	8,255
20%	6,666	8,939	11,081	8,122	9,357	9,346	2,489	2,333	5,888	11,551	11,780	11,071	7,710
30%	6,465	7,699	10,434	6,960	8,207	8,668	2,159	1,922	5,301	11,329	11,780	10,319	7,456
40%	6,093	6,777	9,743	6,780	7,613	7,170	1,924	1,765	4,834	11,157	11,630	9,461	7,128
50%	5,732	6,069	8,646	6,579	6,785	6,520	1,764	1,621	3,726	10,812	11,511	9,053	6,632
60%	5,457	5,690	8,050	6,390	6,605	5,412	1,631	1,507	3,214	9,952	11,100	8,610	6,134
70%	5,043	5,176	7,560	6,027	5,752	4,602	1,506	1,500	2,883	9,256	8,466	6,741	5,914
80%	4,481	4,787	7,218	5,086	4,850	4,321	1,500	1,500	1,682	8,038	7,655	4,787	5,429
90%	3,972	4,416	5,675	4,245	3,769	2,180	1,500	1,500	1,442	6,713	1,979	4,510	4,422
Long Term													
Full Simulation Period[a]	5,881	6,750	8,837	6,738	7,164	6,561	2,181	2,302	4,423	9,659	9,425	8,318	6,520
Water Year Types[b]													
Wet (32%)	6,651	8,075	9,179	8,155	9,608	9,468	2,948	3,555	6,921	10,806	11,727	9,790	8,074
Above Normal (15%)	5,076	6,913	9,438	6,447	7,303	7,728	1,904	1,832	5,542	9,418	11,542	9,854	6,917
Below Normal (17%)	5,779	6,921	9,278	6,397	6,583	6,681	1,881	1,735	3,610	10,610	9,930	9,469	6,573
Dry (22%)	5,626	5,922	9,103	6,363	5,635	4,152	1,956	1,824	2,601	9,985	8,409	6,848	5,702
Critical (15%)	5,522	4,761	6,581	4,917	4,702	2,571	1,484	1,432	1,577	5,818	3,253	4,455	3,923

Alternative 4A (ELT)

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	2,846	6,246	9,729	5,872	5,537	4,341	1,776	1,874	3,592	6,579	7,536	5,347	3,946
20%	2,774	5,753	9,396	5,523	5,197	4,130	1,472	1,481	3,400	5,569	6,660	4,929	3,845
30%	2,738	5,085	8,314	5,225	4,987	3,752	1,272	1,347	3,284	5,054	6,099	4,742	3,698
40%	2,715	4,822	7,492	4,813	4,529	2,616	1,178	1,186	2,929	4,565	5,751	4,530	3,550
50%	2,664	4,467	7,014	4,491	3,981	2,106	1,045	1,038	2,647	4,251	5,297	4,319	3,435
60%	2,566	3,659	6,637	4,017	3,273	1,681	666	929	1,680	3,934	4,751	3,123	3,344
70%	2,050	1,288	6,302	2,382	2,398	1,568	0	766	1,665	3,732	4,348	3,000	3,256
80%	1,177	0	5,515	1,520	2,050	1,368	0	0	1,469	3,429	3,997	3,000	3,026
90%	615	0	5,104	1,503	1,485	661	0	0	1,367	2,701	3,588	3,000	2,736
Long Term													
Full Simulation Period[a]	2,178	3,396	7,204	3,889	3,664	2,456	908	1,067	2,451	4,451	5,324	4,050	3,420
Water Year Types[b]													
Wet (32%)	2,175	3,200	6,627	3,777	2,749	1,752	358	823	2,918	6,056	6,347	3,330	3,343
Above Normal (15%)	1,785	3,498	7,588	3,776	3,360	1,541	391	751	2,673	3,670	6,053	3,040	3,177
Below Normal (17%)	1,862	3,489	8,125	3,716	4,720	3,531	1,078	1,131	2,782	4,272	4,749	5,008	3,705
Dry (22%)	2,465	3,441	7,565	4,166	4,255	3,447	1,610	1,533	2,193	3,898	5,127	4,818	3,710
Critical (15%)	2,515	3,540	6,457	4,034	3,834	2,157	1,364	1,141	1,221	2,795	3,347	4,350	3,063

Alternative 4A (ELT) minus No Action Alternative (ELT)

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	-5,378	-4,505	-1,966	-4,032	-5,023	-6,268	-1,718	-1,781	-4,717	-5,026	-4,244	-5,933	-4,309
20%	-3,892	-3,186	-1,685	-2,599	-4,160	-5,216	-1,017	-852	-2,488	-5,981	-5,120	-6,142	-3,865
30%	-3,728	-2,614	-2,120	-1,735	-3,221	-4,917	-887	-575	-2,017	-6,275	-5,681	-5,577	-3,758
40%	-3,378	-1,954	-2,251	-1,967	-3,083	-4,554	-746	-579	-1,905	-6,592	-5,879	-4,930	-3,579
50%	-3,068	-1,601	-1,632	-2,088	-2,803	-4,414	-719	-583	-1,078	-6,561	-6,214	-4,734	-3,196
60%	-2,891	-2,030	-1,413	-2,373	-3,333	-3,731	-965	-578	-1,534	-6,018	-6,349	-5,487	-2,790
70%	-2,993	-3,888	-1,259	-3,645	-3,354	-3,034	-1,506	-734	-1,219	-5,525	-4,119	-3,741	-2,659
80%	-3,305	-4,787	-1,703	-3,566	-2,800	-2,953	-1,500	-1,500	-213	-4,609	-3,658	-1,787	-2,403
90%	-3,357	-4,416	-571	-2,742	-2,284	-1,520	-1,500	-1,500	-75	-4,012	1,610	-1,510	-1,686
Long Term													
Full Simulation Period[a]	-3,704	-3,355	-1,632	-2,848	-3,500	-4,105	-1,273	-1,234	-1,972	-5,208	-4,100	-4,268	-3,100
Water Year Types[b]													
Wet (32%)	-4,476	-4,875	-2,552	-4,378	-6,859	-7,716	-2,590	-2,733	-4,003	-4,750	-5,381	-6,460	-4,731
Above Normal (15%)	-3,292	-3,415	-1,850	-2,672	-3,942	-6,187	-1,513	-1,081	-2,869	-5,749	-5,489	-6,814	-3,739
Below Normal (17%)	-3,917	-3,432	-1,153	-2,681	-1,864	-3,150	-803	-604	-828	-6,338	-5,180	-4,461	-2,868
Dry (22%)	-3,161	-2,481	-1,538	-2,197	-1,380	-705	-346	-291	-408	-6,087	-3,282	-2,030	-1,992
Critical (15%)	-3,007	-1,220	-124	-884	-868	-414	-120	-291	-356	-3,023	94	-105	-860

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-51-1-7. South Delta Exports, Monthly Delivery Rate

No Action Alternative (ELT)

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	8,224	10,751	11,696	9,904	10,560	10,610	3,493	3,654	8,309	11,605	11,780	11,280	8,255
20%	6,666	8,939	11,081	8,122	9,357	9,346	2,489	2,333	5,888	11,551	11,780	11,071	7,710
30%	6,465	7,699	10,434	6,960	8,207	8,668	2,159	1,922	5,301	11,329	11,780	10,319	7,456
40%	6,093	6,777	9,743	6,780	7,613	7,170	1,924	1,765	4,834	11,157	11,630	9,461	7,128
50%	5,732	6,069	8,646	6,579	6,785	6,520	1,764	1,621	3,726	10,812	11,511	9,053	6,632
60%	5,457	5,690	8,050	6,390	6,605	5,412	1,631	1,507	3,214	9,952	11,100	8,610	6,134
70%	5,043	5,176	7,560	6,027	5,752	4,602	1,506	1,500	2,883	9,256	8,466	6,741	5,914
80%	4,481	4,787	7,218	5,086	4,850	4,321	1,500	1,500	1,682	8,038	7,655	4,787	5,429
90%	3,972	4,416	5,675	4,245	3,769	2,180	1,500	1,500	1,442	6,713	1,979	4,510	4,422
Long Term													
Full Simulation Period[a]	5,881	6,750	8,837	6,738	7,164	6,561	2,181	2,302	4,423	9,659	9,425	8,318	6,520
Water Year Types[b]													
Wet (32%)	6,651	8,075	9,179	8,155	9,608	9,468	2,948	3,555	6,921	10,806	11,727	9,790	8,074
Above Normal (15%)	5,076	6,913	9,438	6,447	7,303	7,728	1,904	1,832	5,542	9,418	11,542	9,854	6,917
Below Normal (17%)	5,779	6,921	9,278	6,397	6,583	6,681	1,881	1,735	3,610	10,610	9,930	9,469	6,573
Dry (22%)	5,626	5,922	9,103	6,363	5,635	4,152	1,956	1,824	2,601	9,985	8,409	6,848	5,702
Critical (15%)	5,522	4,761	6,581	4,917	4,702	2,571	1,484	1,432	1,577	5,818	3,253	4,455	3,923

Alternative 5A (ELT)

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	6,632	9,312	11,634	8,779	9,141	9,276	3,499	3,648	7,453	11,309	11,549	5,824	6,623
20%	6,273	6,933	10,958	7,824	8,170	8,324	2,489	2,393	6,004	11,226	11,044	5,261	6,251
30%	5,937	5,541	10,282	6,917	7,536	7,106	2,191	1,946	5,345	10,706	10,280	4,856	5,918
40%	5,483	5,237	9,539	6,751	6,704	6,553	2,095	1,769	4,706	10,086	8,810	4,719	5,646
50%	4,483	4,761	8,676	6,547	6,436	5,902	1,801	1,596	3,725	9,269	7,372	4,528	5,348
60%	3,965	4,095	7,807	6,250	5,862	4,979	1,708	1,500	3,267	8,192	5,723	4,215	5,038
70%	3,126	1,305	7,410	5,752	4,967	4,546	1,534	1,500	3,001	7,013	4,760	3,151	4,861
80%	2,452	2	6,769	4,899	4,411	3,707	1,500	1,500	1,577	6,044	3,396	1,160	4,455
90%	1,379	0	5,919	4,248	3,680	2,287	1,500	1,463	1,262	1,734	2,430	0	3,625
Long Term													
Full Simulation Period[a]	4,471	4,354	8,649	6,474	6,400	5,917	2,219	2,207	4,307	8,224	7,123	3,837	5,348
Water Year Types[b]													
Wet (32%)	4,709	5,009	8,772	7,544	8,126	7,999	2,885	3,246	6,710	9,707	8,822	2,793	6,360
Above Normal (15%)	3,750	4,790	9,207	6,126	6,419	6,946	1,910	1,847	5,417	8,597	9,392	2,942	5,612
Below Normal (17%)	4,621	4,095	9,124	6,212	5,921	6,226	1,878	1,781	3,789	9,304	7,992	4,901	5,487
Dry (22%)	4,177	3,775	9,082	6,152	5,539	4,126	2,152	1,919	2,506	8,686	5,486	4,827	4,869
Critical (15%)	4,943	3,669	6,625	5,289	4,490	2,702	1,582	1,243	1,295	2,687	2,618	4,269	3,451

Alternative 5A (ELT) minus No Action Alternative (ELT)

	Monthly Delivery Rate (CFS)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	AVG
Probability of Exceedance													
10%	-1,591	-1,439	-62	-1,126	-1,419	-1,333	5	-6	-856	-296	-231	-5,456	-1,632
20%	-392	-2,007	-124	-298	-1,187	-1,022	0	60	116	-325	-736	-5,810	-1,459
30%	-528	-2,158	-152	-43	-671	-1,563	32	24	43	-624	-1,500	-5,463	-1,538
40%	-609	-1,540	-204	-28	-909	-617	171	4	-128	-1,071	-2,820	-4,742	-1,483
50%	-1,248	-1,308	30	-31	-349	-618	37	-25	0	-1,543	-4,139	-4,525	-1,284
60%	-1,492	-1,595	-242	-140	-743	-433	77	-7	53	-1,759	-5,377	-4,395	-1,096
70%	-1,917	-3,871	-150	-275	-786	-56	28	0	118	-2,243	-3,706	-3,590	-1,054
80%	-2,029	-4,785	-449	-188	-440	-614	0	0	-105	-1,994	-4,259	-3,627	-974
90%	-2,593	-4,416	245	3	-89	107	0	-37	-180	-4,979	451	-4,510	-797
Long Term													
Full Simulation Period[a]	-1,411	-2,397	-187	-264	-764	-644	37	-95	-116	-1,435	-2,301	-4,481	-1,172
Water Year Types[b]													
Wet (32%)	-1,943	-3,066	-407	-610	-1,482	-1,469	-63	-309	-211	-1,099	-2,906	-6,998	-1,714
Above Normal (15%)	-1,326	-2,123	-231	-321	-884	-782	6	16	-125	-822	-2,150	-6,913	-1,305
Below Normal (17%)	-1,158	-2,826	-155	-185	-663	-455	-3	45	180	-1,306	-1,938	-4,568	-1,086
Dry (22%)	-1,449	-2,148	-21	-211	-96	-25	195	95	-95	-1,299	-2,923	-2,021	-833
Critical (15%)	-579	-1,091	44	371	-212	131	98	-189	-281	-3,131	-634	-186	-472

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-51-2-1. South Delta Exports, Monthly Delivery Volume

Existing Condition

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	679	651	696	549	605	604	193	208	537	713	721	664	6,310
20%	674	650	691	476	519	562	135	141	431	710	718	663	6,088
30%	639	649	614	423	459	532	122	114	325	707	717	657	5,824
40%	589	602	566	418	431	454	110	102	305	703	710	616	5,540
50%	552	539	523	396	387	406	102	97	266	700	705	589	5,264
60%	474	498	492	391	367	344	96	92	209	694	698	562	5,088
70%	441	429	470	363	332	295	89	92	183	681	680	537	4,799
80%	377	372	436	311	276	277	89	92	166	639	551	489	4,541
90%	298	277	380	274	212	139	89	92	95	553	268	297	3,463
Long Term													
Full Simulation Period[a]	516	505	538	408	398	403	124	135	288	655	620	555	5,144
Water Year Types[b]													
Wet (32%)	575	602	545	473	516	555	169	203	440	700	705	646	6,128
Above Normal (15%)	516	478	555	396	406	487	108	103	359	656	687	613	5,366
Below Normal (17%)	530	527	570	386	385	426	103	102	256	688	660	574	5,208
Dry (22%)	475	471	544	387	323	261	102	109	173	680	660	535	4,719
Critical (15%)	433	348	458	333	259	179	95	95	101	481	263	308	3,352

No Action Alternative (ELT)

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	506	640	719	609	606	652	208	225	494	714	724	671	5,990
20%	410	532	681	499	525	575	148	143	350	710	724	659	5,592
30%	398	458	642	428	458	533	128	118	315	697	724	614	5,387
40%	375	403	599	417	423	441	114	109	288	686	715	563	5,158
50%	352	361	532	405	378	401	105	100	222	665	708	539	4,822
60%	336	339	495	393	367	333	97	93	191	612	683	512	4,455
70%	310	308	465	371	320	283	90	92	172	569	521	401	4,304
80%	276	285	444	313	269	266	89	92	100	494	471	285	3,946
90%	244	263	349	261	209	134	89	92	86	413	122	268	3,200
Long Term													
Full Simulation Period[a]	362	402	543	414	401	403	130	142	263	594	580	495	4,728
Water Year Types[b]													
Wet (32%)	409	481	564	501	537	582	175	219	412	664	721	583	5,848
Above Normal (15%)	312	411	580	396	410	475	113	113	330	579	710	586	5,017
Below Normal (17%)	355	412	571	393	368	411	112	107	215	652	611	563	4,770
Dry (22%)	346	352	560	391	316	255	116	112	155	614	517	408	4,142
Critical (15%)	340	283	405	302	264	158	88	88	94	358	200	265	2,845

No Action Alternative (ELT) minus Existing Condition

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	-173	-11	23	60	2	49	15	17	-43	1	3	7	-320
20%	-264	-118	-9	23	7	13	13	2	-80	0	6	-4	-496
30%	-241	-191	27	5	-1	1	6	5	-10	-11	7	-43	-436
40%	-215	-199	33	-1	-8	-13	5	6	-17	-17	5	-53	-381
50%	-199	-178	9	9	-9	-5	3	3	-44	-35	3	-50	-442
60%	-138	-160	3	2	0	-11	1	0	-17	-82	-15	-49	-633
70%	-131	-121	-5	7	-11	-12	0	0	-12	-112	-159	-136	-495
80%	-102	-87	7	2	-7	-12	0	0	-66	-145	-80	-204	-594
90%	-54	-14	-31	-13	-3	-5	0	0	-9	-140	-147	-29	-263
Long Term													
Full Simulation Period[a]	-154	-103	6	7	3	0	6	7	-25	-61	-41	-60	-415
Water Year Types[b]													
Wet (32%)	-166	-121	19	28	20	27	6	16	-28	-35	16	-63	-280
Above Normal (15%)	-204	-67	25	0	4	-11	5	10	-29	-77	22	-27	-349
Below Normal (17%)	-175	-115	1	7	-17	-15	9	4	-41	-36	-50	-11	-438
Dry (22%)	-129	-119	16	5	-8	-6	14	4	-18	-66	-142	-128	-577
Critical (15%)	-94	-65	-54	-30	5	-21	-7	-7	-7	-123	-63	-42	-507

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-51-2-2. South Delta Exports, Monthly Delivery Volume

Existing Condition

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	679	651	696	549	605	604	193	208	537	713	721	664	6,310
20%	674	650	691	476	519	562	135	141	431	710	718	663	6,088
30%	639	649	614	423	459	532	122	114	325	707	717	657	5,824
40%	589	602	566	418	431	454	110	102	305	703	710	616	5,540
50%	552	539	523	396	387	406	102	97	266	700	705	589	5,264
60%	474	498	492	391	367	344	96	92	209	694	698	562	5,088
70%	441	429	470	363	332	295	89	92	183	681	680	537	4,799
80%	377	372	436	311	276	277	89	92	166	639	551	489	4,541
90%	298	277	380	274	212	139	89	92	95	553	268	297	3,463
Long Term													
Full Simulation Period[a]	516	505	538	408	398	403	124	135	288	655	620	555	5,144
Water Year Types[b]													
Wet (32%)	575	602	545	473	516	555	169	203	440	700	705	646	6,128
Above Normal (15%)	516	478	555	396	406	487	108	103	359	656	687	613	5,366
Below Normal (17%)	530	527	570	386	385	426	103	102	256	688	660	574	5,208
Dry (22%)	475	471	544	387	323	261	102	109	173	680	660	535	4,719
Critical (15%)	433	348	458	333	259	179	95	95	101	481	263	308	3,352

Alternative 2D (ELT)

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	174	361	594	359	281	263	150	129	209	715	612	313	3,150
20%	169	323	577	301	266	241	113	104	200	631	433	289	2,786
30%	168	299	499	272	234	213	96	89	180	575	382	278	2,683
40%	167	284	434	229	199	118	89	83	158	471	334	268	2,485
50%	164	258	414	121	128	99	77	75	101	408	305	220	2,316
60%	157	87	398	93	84	54	71	64	99	343	266	27	2,162
70%	111	0	342	92	0	0	64	57	89	257	245	4	1,952
80%	65	0	314	4	0	0	0	24	74	177	220	0	1,767
90%	36	0	225	0	0	0	0	0	21	104	168	0	1,579
Long Term													
Full Simulation Period[a]	130	181	410	165	134	113	75	70	125	416	341	154	2,316
Water Year Types[b]													
Wet (32%)	114	146	315	73	11	29	31	34	123	482	377	8	1,742
Above Normal (15%)	117	201	441	115	70	27	62	55	155	458	407	13	2,123
Below Normal (17%)	122	188	480	210	203	191	100	96	168	514	414	292	2,979
Dry (22%)	152	191	477	246	243	218	120	112	117	374	298	288	2,834
Critical (15%)	151	213	404	244	224	136	89	70	63	180	177	250	2,201

Alternative 2D (ELT) minus Existing Condition

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	-505	-290	-102	-190	-324	-341	-43	-78	-328	2	-109	-351	-3,160
20%	-505	-327	-114	-175	-253	-321	-22	-37	-231	-79	-286	-374	-3,302
30%	-471	-350	-115	-151	-225	-319	-26	-25	-145	-132	-336	-379	-3,140
40%	-423	-318	-131	-189	-232	-336	-21	-20	-147	-231	-376	-347	-3,054
50%	-388	-281	-108	-275	-260	-307	-25	-22	-165	-292	-399	-369	-2,948
60%	-317	-412	-94	-298	-283	-290	-24	-29	-110	-350	-431	-535	-2,926
70%	-331	-429	-127	-271	-332	-295	-25	-35	-94	-424	-435	-533	-2,847
80%	-313	-372	-122	-307	-276	-277	-89	-68	-92	-462	-331	-489	-2,774
90%	-262	-277	-155	-274	-212	-139	-89	-92	-74	-449	-100	-297	-1,884
Long Term													
Full Simulation Period[a]	-386	-324	-128	-242	-263	-290	-48	-64	-163	-239	-279	-401	-2,828
Water Year Types[b]													
Wet (32%)	-460	-456	-230	-400	-505	-527	-139	-169	-317	-218	-328	-637	-4,386
Above Normal (15%)	-399	-278	-115	-281	-336	-460	-46	-48	-204	-198	-280	-600	-3,243
Below Normal (17%)	-407	-339	-90	-176	-182	-235	-3	-6	-87	-174	-247	-282	-2,228
Dry (22%)	-323	-280	-67	-141	-80	-43	18	3	-56	-306	-362	-248	-1,885
Critical (15%)	-282	-135	-54	-89	-34	-43	-6	-25	-38	-300	-86	-57	-1,151

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-51-2-3. South Delta Exports, Monthly Delivery Volume

Existing Condition

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	679	651	696	549	605	604	193	208	537	713	721	664	6,310
20%	674	650	691	476	519	562	135	141	431	710	718	663	6,088
30%	639	649	614	423	459	532	122	114	325	707	717	657	5,824
40%	589	602	566	418	431	454	110	102	305	703	710	616	5,540
50%	552	539	523	396	387	406	102	97	266	700	705	589	5,264
60%	474	498	492	391	367	344	96	92	209	694	698	562	5,088
70%	441	429	470	363	332	295	89	92	183	681	680	537	4,799
80%	377	372	436	311	276	277	89	92	166	639	551	489	4,541
90%	298	277	380	274	212	139	89	92	95	553	268	297	3,463
Long Term													
Full Simulation Period[a]	516	505	538	408	398	403	124	135	288	655	620	555	5,144
Water Year Types[b]													
Wet (32%)	575	602	545	473	516	555	169	203	440	700	705	646	6,128
Above Normal (15%)	516	478	555	396	406	487	108	103	359	656	687	613	5,366
Below Normal (17%)	530	527	570	386	385	426	103	102	256	688	660	574	5,208
Dry (22%)	475	471	544	387	323	261	102	109	173	680	660	535	4,719
Critical (15%)	433	348	458	333	259	179	95	95	101	481	263	308	3,352

Alternative 4A (ELT)

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	175	372	598	361	316	267	106	115	214	405	463	318	2,857
20%	171	342	578	340	289	254	88	91	202	342	409	293	2,783
30%	168	303	511	321	278	231	76	83	195	311	375	282	2,680
40%	167	287	461	296	255	161	70	73	174	281	354	270	2,582
50%	164	266	431	276	229	129	62	64	158	261	326	257	2,499
60%	158	218	408	247	182	103	40	57	100	242	292	186	2,429
70%	126	77	387	146	133	96	0	47	99	229	267	179	2,357
80%	72	0	339	93	114	84	0	0	87	211	246	179	2,208
90%	38	0	314	92	82	41	0	0	81	166	221	179	1,990
Long Term													
Full Simulation Period[a]	134	202	443	239	205	151	54	66	146	274	327	241	2,482
Water Year Types[b]													
Wet (32%)	134	190	407	232	154	108	21	51	174	372	390	198	2,432
Above Normal (15%)	110	208	467	232	189	95	23	46	159	226	372	181	2,308
Below Normal (17%)	114	208	500	229	264	217	64	70	166	263	292	298	2,683
Dry (22%)	152	205	465	256	239	212	96	94	130	240	315	287	2,690
Critical (15%)	155	211	397	248	216	133	81	70	73	172	206	259	2,219

Alternative 4A (ELT) minus Existing Condition

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	-504	-279	-98	-188	-288	-337	-87	-93	-324	-308	-258	-346	-3,453
20%	-504	-307	-113	-137	-230	-308	-48	-50	-228	-368	-309	-369	-3,305
30%	-470	-346	-103	-102	-180	-301	-47	-31	-130	-396	-342	-375	-3,143
40%	-422	-315	-105	-122	-176	-293	-39	-29	-131	-422	-357	-346	-2,958
50%	-388	-273	-91	-120	-158	-277	-40	-33	-108	-439	-379	-332	-2,765
60%	-316	-281	-84	-144	-185	-241	-56	-35	-109	-452	-406	-376	-2,659
70%	-315	-352	-82	-217	-198	-199	-89	-45	-84	-452	-413	-359	-2,442
80%	-305	-372	-97	-217	-163	-193	-89	-92	-78	-428	-305	-310	-2,333
90%	-260	-277	-66	-182	-130	-98	-89	-92	-14	-386	-48	-119	-1,473
Long Term													
Full Simulation Period[a]	-382	-303	-95	-168	-192	-252	-69	-69	-142	-381	-293	-314	-2,662
Water Year Types[b]													
Wet (32%)	-441	-412	-138	-241	-362	-448	-148	-152	-266	-327	-314	-448	-3,696
Above Normal (15%)	-406	-270	-89	-164	-217	-392	-85	-57	-200	-430	-315	-432	-3,058
Below Normal (17%)	-415	-319	-70	-158	-121	-209	-39	-33	-90	-425	-368	-276	-2,525
Dry (22%)	-323	-266	-78	-130	-85	-49	-6	-14	-43	-440	-344	-249	-2,029
Critical (15%)	-279	-137	-61	-85	-43	-46	-14	-25	-28	-309	-57	-49	-1,133

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-51-2-4. South Delta Exports, Monthly Delivery Volume

Existing Condition

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	679	651	696	549	605	604	193	208	537	713	721	664	6,310
20%	674	650	691	476	519	562	135	141	431	710	718	663	6,088
30%	639	649	614	423	459	532	122	114	325	707	717	657	5,824
40%	589	602	566	418	431	454	110	102	305	703	710	616	5,540
50%	552	539	523	396	387	406	102	97	266	700	705	589	5,264
60%	474	498	492	391	367	344	96	92	209	694	698	562	5,088
70%	441	429	470	363	332	295	89	92	183	681	680	537	4,799
80%	377	372	436	311	276	277	89	92	166	639	551	489	4,541
90%	298	277	380	274	212	139	89	92	95	553	268	297	3,463
Long Term													
Full Simulation Period[a]	516	505	538	408	398	403	124	135	288	655	620	555	5,144
Water Year Types[b]													
Wet (32%)	575	602	545	473	516	555	169	203	440	700	705	646	6,128
Above Normal (15%)	516	478	555	396	406	487	108	103	359	656	687	613	5,366
Below Normal (17%)	530	527	570	386	385	426	103	102	256	688	660	574	5,208
Dry (22%)	475	471	544	387	323	261	102	109	173	680	660	535	4,719
Critical (15%)	433	348	458	333	259	179	95	95	101	481	263	308	3,352

Alternative 5A (ELT)

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	408	554	715	540	508	570	208	224	444	695	710	347	4,803
20%	386	413	674	481	454	512	148	147	357	690	679	313	4,534
30%	365	330	632	425	423	437	130	120	318	658	632	289	4,297
40%	337	312	587	415	375	403	125	109	280	620	542	281	4,106
50%	276	283	533	403	362	363	107	98	222	570	453	269	3,878
60%	244	244	480	384	326	306	102	92	194	504	352	251	3,665
70%	192	78	456	354	276	280	91	92	179	431	293	188	3,530
80%	151	0	416	301	250	228	89	92	94	372	209	69	3,229
90%	85	0	364	261	208	141	89	90	75	107	149	0	2,620
Long Term													
Full Simulation Period[a]	275	259	532	398	358	364	132	136	256	506	438	228	3,882
Water Year Types[b]													
Wet (32%)	290	298	539	464	454	492	172	200	399	597	542	166	4,612
Above Normal (15%)	231	285	566	377	360	427	114	114	322	529	577	175	4,077
Below Normal (17%)	284	244	561	382	331	383	112	109	225	572	491	292	3,987
Dry (22%)	257	225	558	378	310	254	128	118	149	534	337	287	3,536
Critical (15%)	304	218	407	325	252	166	94	76	77	165	161	254	2,501

Alternative 5A (ELT) minus Existing Condition

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	-271	-97	19	-9	-97	-33	15	16	-94	-18	-11	-317	-1,507
20%	-289	-237	-17	5	-65	-50	13	6	-73	-20	-39	-350	-1,554
30%	-274	-319	18	2	-36	-95	8	6	-7	-49	-85	-368	-1,526
40%	-252	-290	21	-3	-56	-51	15	7	-25	-82	-169	-335	-1,433
50%	-276	-255	11	7	-26	-43	5	2	-44	-130	-251	-319	-1,386
60%	-230	-255	-12	-7	-41	-38	6	0	-14	-190	-346	-311	-1,422
70%	-249	-351	-14	-9	-56	-16	2	0	-5	-250	-387	-350	-1,269
80%	-227	-372	-20	-9	-27	-50	0	0	-72	-268	-342	-420	-1,311
90%	-213	-277	-16	-13	-4	2	0	-2	-20	-446	-119	-297	-843
Long Term													
Full Simulation Period[a]	-241	-246	-6	-9	-40	-40	9	1	-32	-149	-182	-327	-1,262
Water Year Types[b]													
Wet (32%)	-285	-304	-6	-9	-63	-63	2	-3	-40	-103	-162	-480	-1,516
Above Normal (15%)	-286	-193	11	-20	-46	-59	5	11	-37	-127	-110	-438	-1,289
Below Normal (17%)	-246	-283	-9	-4	-54	-43	8	7	-30	-116	-169	-283	-1,221
Dry (22%)	-218	-246	15	-8	-13	-7	26	9	-24	-146	-322	-248	-1,183
Critical (15%)	-129	-130	-51	-8	-7	-13	-1	-19	-24	-315	-102	-54	-851

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-51-2-5. South Delta Exports, Monthly Delivery Volume

No Action Alternative (ELT)

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	506	640	719	609	606	652	208	225	494	714	724	671	5,990
20%	410	532	681	499	525	575	148	143	350	710	724	659	5,592
30%	398	458	642	428	458	533	128	118	315	697	724	614	5,387
40%	375	403	599	417	423	441	114	109	288	686	715	563	5,158
50%	352	361	532	405	378	401	105	100	222	665	708	539	4,822
60%	336	339	495	393	367	333	97	93	191	612	683	512	4,455
70%	310	308	465	371	320	283	90	92	172	569	521	401	4,304
80%	276	285	444	313	269	266	89	92	100	494	471	285	3,946
90%	244	263	349	261	209	134	89	92	86	413	122	268	3,200
Long Term													
Full Simulation Period[a]	362	402	543	414	401	403	130	142	263	594	580	495	4,728
Water Year Types[b]													
Wet (32%)	409	481	564	501	537	582	175	219	412	664	721	583	5,848
Above Normal (15%)	312	411	580	396	410	475	113	113	330	579	710	586	5,017
Below Normal (17%)	355	412	571	393	368	411	112	107	215	652	611	563	4,770
Dry (22%)	346	352	560	391	316	255	116	112	155	614	517	408	4,142
Critical (15%)	340	283	405	302	264	158	88	88	94	358	200	265	2,845

Alternative 2D (ELT)

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	174	361	594	359	281	263	150	129	209	715	612	313	3,150
20%	169	323	577	301	266	241	113	104	200	631	433	289	2,786
30%	168	299	499	272	234	213	96	89	180	575	382	278	2,683
40%	167	284	434	229	199	118	89	83	158	471	334	268	2,485
50%	164	258	414	121	128	99	77	75	101	408	305	220	2,316
60%	157	87	398	93	84	54	71	64	99	343	266	27	2,162
70%	111	0	342	92	0	0	64	57	89	257	245	4	1,952
80%	65	0	314	4	0	0	0	24	74	177	220	0	1,767
90%	36	0	225	0	0	0	0	0	21	104	168	0	1,579
Long Term													
Full Simulation Period[a]	130	181	410	165	134	113	75	70	125	416	341	154	2,316
Water Year Types[b]													
Wet (32%)	114	146	315	73	11	29	31	34	123	482	377	8	1,742
Above Normal (15%)	117	201	441	115	70	27	62	55	155	458	407	13	2,123
Below Normal (17%)	122	188	480	210	203	191	100	96	168	514	414	292	2,979
Dry (22%)	152	191	477	246	243	218	120	112	117	374	298	288	2,834
Critical (15%)	151	213	404	244	224	136	89	70	63	180	177	250	2,201

Alternative 2D (ELT) minus No Action Alternative (ELT)

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	-332	-279	-125	-250	-326	-390	-58	-95	-285	1	-113	-358	-2,839
20%	-241	-209	-105	-198	-260	-334	-35	-40	-150	-79	-292	-370	-2,806
30%	-230	-159	-143	-156	-224	-320	-32	-29	-136	-122	-343	-336	-2,704
40%	-208	-119	-165	-188	-224	-323	-26	-26	-130	-215	-381	-295	-2,673
50%	-189	-103	-117	-284	-251	-302	-28	-25	-121	-257	-402	-319	-2,506
60%	-179	-252	-97	-299	-283	-279	-26	-29	-92	-269	-416	-485	-2,294
70%	-199	-308	-123	-278	-320	-283	-25	-35	-83	-313	-276	-397	-2,352
80%	-211	-285	-130	-309	-269	-266	-89	-68	-26	-317	-251	-285	-2,180
90%	-209	-263	-123	-261	-209	-134	-89	-92	-65	-309	46	-268	-1,621
Long Term													
Full Simulation Period[a]	-232	-221	-133	-249	-267	-290	-54	-71	-138	-178	-239	-341	-2,413
Water Year Types[b]													
Wet (32%)	-295	-335	-250	-428	-526	-554	-145	-185	-289	-183	-345	-574	-4,107
Above Normal (15%)	-195	-211	-140	-281	-340	-448	-51	-57	-174	-121	-302	-573	-2,894
Below Normal (17%)	-233	-224	-90	-183	-166	-220	-12	-10	-47	-138	-197	-271	-1,791
Dry (22%)	-194	-162	-83	-146	-73	-38	4	0	-38	-240	-219	-120	-1,308
Critical (15%)	-188	-71	-1	-59	-40	-23	1	-18	-31	-177	-23	-15	-644

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-51-2-6. South Delta Exports, Monthly Delivery Volume

No Action Alternative (ELT)

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	506	640	719	609	606	652	208	225	494	714	724	671	5,990
20%	410	532	681	499	525	575	148	143	350	710	724	659	5,592
30%	398	458	642	428	458	533	128	118	315	697	724	614	5,387
40%	375	403	599	417	423	441	114	109	288	686	715	563	5,158
50%	352	361	532	405	378	401	105	100	222	665	708	539	4,822
60%	336	339	495	393	367	333	97	93	191	612	683	512	4,455
70%	310	308	465	371	320	283	90	92	172	569	521	401	4,304
80%	276	285	444	313	269	266	89	92	100	494	471	285	3,946
90%	244	263	349	261	209	134	89	92	86	413	122	268	3,200
Long Term													
Full Simulation Period[a]	362	402	543	414	401	403	130	142	263	594	580	495	4,728
Water Year Types[b]													
Wet (32%)	409	481	564	501	537	582	175	219	412	664	721	583	5,848
Above Normal (15%)	312	411	580	396	410	475	113	113	330	579	710	586	5,017
Below Normal (17%)	355	412	571	393	368	411	112	107	215	652	611	563	4,770
Dry (22%)	346	352	560	391	316	255	116	112	155	614	517	408	4,142
Critical (15%)	340	283	405	302	264	158	88	88	94	358	200	265	2,845

Alternative 4A (ELT)

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	175	372	598	361	316	267	106	115	214	405	463	318	2,857
20%	171	342	578	340	289	254	88	91	202	342	409	293	2,783
30%	168	303	511	321	278	231	76	83	195	311	375	282	2,680
40%	167	287	461	296	255	161	70	73	174	281	354	270	2,582
50%	164	266	431	276	229	129	62	64	158	261	326	257	2,499
60%	158	218	408	247	182	103	40	57	100	242	292	186	2,429
70%	126	77	387	146	133	96	0	47	99	229	267	179	2,357
80%	72	0	339	93	114	84	0	0	87	211	246	179	2,208
90%	38	0	314	92	82	41	0	0	81	166	221	179	1,990
Long Term													
Full Simulation Period[a]	134	202	443	239	205	151	54	66	146	274	327	241	2,482
Water Year Types[b]													
Wet (32%)	134	190	407	232	154	108	21	51	174	372	390	198	2,432
Above Normal (15%)	110	208	467	232	189	95	23	46	159	226	372	181	2,308
Below Normal (17%)	114	208	500	229	264	217	64	70	166	263	292	298	2,683
Dry (22%)	152	205	465	256	239	212	96	94	130	240	315	287	2,690
Critical (15%)	155	211	397	248	216	133	81	70	73	172	206	259	2,219

Alternative 4A (ELT) minus No Action Alternative (ELT)

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	-331	-268	-121	-248	-290	-385	-102	-109	-281	-309	-261	-353	-3,133
20%	-239	-190	-104	-160	-237	-321	-60	-52	-148	-368	-315	-365	-2,809
30%	-229	-156	-130	-107	-180	-302	-53	-35	-120	-386	-349	-332	-2,707
40%	-208	-116	-138	-121	-168	-280	-44	-36	-113	-405	-362	-293	-2,577
50%	-189	-95	-100	-128	-149	-271	-43	-36	-64	-403	-382	-282	-2,323
60%	-178	-121	-87	-146	-185	-229	-57	-36	-91	-370	-390	-326	-2,026
70%	-184	-231	-77	-224	-187	-187	-90	-45	-73	-340	-253	-223	-1,947
80%	-203	-285	-105	-219	-156	-182	-89	-92	-13	-283	-225	-106	-1,739
90%	-206	-263	-35	-169	-127	-93	-89	-92	-4	-247	99	-90	-1,210
Long Term													
Full Simulation Period[a]	-228	-200	-100	-175	-196	-252	-76	-76	-117	-320	-252	-254	-2,246
Water Year Types[b]													
Wet (32%)	-275	-290	-157	-269	-383	-474	-154	-168	-238	-292	-331	-384	-3,416
Above Normal (15%)	-202	-203	-114	-164	-221	-380	-90	-66	-171	-353	-338	-405	-2,709
Below Normal (17%)	-241	-204	-71	-165	-105	-194	-48	-37	-49	-390	-319	-265	-2,087
Dry (22%)	-194	-148	-95	-135	-77	-43	-21	-18	-24	-374	-202	-121	-1,452
Critical (15%)	-185	-73	-8	-54	-49	-25	-7	-18	-21	-186	6	-6	-626

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-51-2-7. South Delta Exports, Monthly Delivery Volume

No Action Alternative (ELT)

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	506	640	719	609	606	652	208	225	494	714	724	671	5,990
20%	410	532	681	499	525	575	148	143	350	710	724	659	5,592
30%	398	458	642	428	458	533	128	118	315	697	724	614	5,387
40%	375	403	599	417	423	441	114	109	288	686	715	563	5,158
50%	352	361	532	405	378	401	105	100	222	665	708	539	4,822
60%	336	339	495	393	367	333	97	93	191	612	683	512	4,455
70%	310	308	465	371	320	283	90	92	172	569	521	401	4,304
80%	276	285	444	313	269	266	89	92	100	494	471	285	3,946
90%	244	263	349	261	209	134	89	92	86	413	122	268	3,200
Long Term													
Full Simulation Period[a]	362	402	543	414	401	403	130	142	263	594	580	495	4,728
Water Year Types[b]													
Wet (32%)	409	481	564	501	537	582	175	219	412	664	721	583	5,848
Above Normal (15%)	312	411	580	396	410	475	113	113	330	579	710	586	5,017
Below Normal (17%)	355	412	571	393	368	411	112	107	215	652	611	563	4,770
Dry (22%)	346	352	560	391	316	255	116	112	155	614	517	408	4,142
Critical (15%)	340	283	405	302	264	158	88	88	94	358	200	265	2,845

Alternative 5A (ELT)

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	408	554	715	540	508	570	208	224	444	695	710	347	4,803
20%	386	413	674	481	454	512	148	147	357	690	679	313	4,534
30%	365	330	632	425	423	437	130	120	318	658	632	289	4,297
40%	337	312	587	415	375	403	125	109	280	620	542	281	4,106
50%	276	283	533	403	362	363	107	98	222	570	453	269	3,878
60%	244	244	480	384	326	306	102	92	194	504	352	251	3,665
70%	192	78	456	354	276	280	91	92	179	431	293	188	3,530
80%	151	0	416	301	250	228	89	92	94	372	209	69	3,229
90%	85	0	364	261	208	141	89	90	75	107	149	0	2,620
Long Term													
Full Simulation Period[a]	275	259	532	398	358	364	132	136	256	506	438	228	3,882
Water Year Types[b]													
Wet (32%)	290	298	539	464	454	492	172	200	399	597	542	166	4,612
Above Normal (15%)	231	285	566	377	360	427	114	114	322	529	577	175	4,077
Below Normal (17%)	284	244	561	382	331	383	112	109	225	572	491	292	3,987
Dry (22%)	257	225	558	378	310	254	128	118	149	534	337	287	3,536
Critical (15%)	304	218	407	325	252	166	94	76	77	165	161	254	2,501

Alternative 5A (ELT) minus No Action Alternative (ELT)

	Monthly Delivery Volume (TAF)												
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	TOT
Probability of Exceedance													
10%	-98	-86	-4	-69	-99	-82	0	0	-51	-18	-14	-325	-1,187
20%	-24	-119	-8	-18	-72	-63	0	4	7	-20	-45	-346	-1,058
30%	-32	-128	-9	-3	-35	-96	2	1	3	-38	-92	-325	-1,090
40%	-37	-92	-13	-2	-48	-38	10	0	-8	-66	-173	-282	-1,052
50%	-77	-78	2	-2	-17	-38	2	-2	0	-95	-254	-269	-944
60%	-92	-95	-15	-9	-41	-27	5	0	3	-108	-331	-262	-790
70%	-118	-230	-9	-17	-45	-3	2	0	7	-138	-228	-214	-774
80%	-125	-285	-28	-12	-20	-38	0	0	-6	-123	-262	-216	-717
90%	-159	-263	15	0	-1	7	0	-2	-11	-306	28	-268	-580
Long Term													
Full Simulation Period[a]	-87	-143	-12	-16	-43	-40	2	-6	-7	-88	-142	-267	-847
Water Year Types[b]													
Wet (32%)	-119	-182	-25	-38	-83	-90	-4	-19	-13	-68	-179	-416	-1,236
Above Normal (15%)	-82	-126	-14	-20	-50	-48	0	1	-7	-51	-132	-411	-940
Below Normal (17%)	-71	-168	-10	-11	-37	-28	0	3	11	-80	-119	-272	-783
Dry (22%)	-89	-128	-1	-13	-5	-2	12	6	-6	-80	-180	-120	-606
Critical (15%)	-36	-65	3	23	-12	8	6	-12	-17	-193	-39	-11	-344

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

C.52. SWP and CVP Deliveries

Table C-52-1-1. CALSIM II Summary Reporting Metrics, Long-Term Average and Dry and Critical Year Averages

					No Action Alternative (ELT)	Existing Condition	No Action Alternative (ELT) minus Existing Condition
Water Supply Reliability							
Sacramento River Hydrologic Region							
CVP Settlement	Contract Delivery (annual average)	(TAF/year)	Long Term		1,848	1,840	8
			Dry and Critical		1,807	1,823	-15
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term		150	132	18
			Dry and Critical		133	115	18
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		201	86	115
			Dry and Critical		161	76	85
CVP Ag	Contract Delivery (annual average - does not include Settlement contractors)	(TAF/year)	Long Term		187	234	-47
			Dry and Critical		69	128	-59
SWP FRSA	Contract Delivery (annual average)	(TAF/year)	Long Term		934	948	-14
			Dry and Critical		858	899	-41
SWP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		22	25	-3
			Dry and Critical		15	18	-3
San Joaquin River Hydrologic Region (not including Friant-Kern and Madera Canal water users)							
CVP Exchange	Contract Delivery (annual average)	(TAF/year)	Long Term		852	852	0
			Dry and Critical		814	814	0
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term		260	281	-21
			Dry and Critical		246	267	-21
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		15	16	-1
			Dry and Critical		12	13	-1
CVP Ag	Contract Delivery (annual average; does not include Exchange contractors)	(TAF/year)	Long Term		266	305	-39
			Dry and Critical		108	168	-60
SWP Ag	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term		3	4	0
			Dry and Critical		2	3	0
San Francisco Bay Hydrologic Region							
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		287	226	61
			Dry and Critical		312	226	86
CVP Ag	Contract Delivery (annual average)	(TAF/year)	Long Term		32	37	-5
			Dry and Critical		13	20	-7
SWP M&I	Contract Delivery (including Article 21, includes transfers to SWP contractors) (annual average)	(TAF/year)	Long Term		195	199	-4
			Dry and Critical		137	172	-35
Central Coast Hydrologic Region							
SWP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		43	47	-4
			Dry and Critical		30	38	-9
Tulare Lake Hydrologic Region (not including Friant-Kern Canal water users)							
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term		12	15	-3
			Dry and Critical		11	14	-3
CVP Ag	Contract Delivery (annual average - includes Cross Valley Canal)	(TAF/year)	Long Term		548	625	-78
			Dry and Critical		224	348	-124
SWP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		82	90	-8
			Dry and Critical		57	66	-9
SWP Ag	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term		644	775	-132
			Dry and Critical		440	520	-81
South Lahontan Hydrologic Region							
SWP M&I	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term		260	272	-12
			Dry and Critical		191	245	-54
South Coast Hydrologic Region							
SWP M&I	Contract Delivery (including Article 21, includes transfers to SWP contractors) (annual average)	(TAF/year)	Long Term		1,312	1,366	-55
			Dry and Critical		947	1,118	-171
SWP Ag	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term		8	9	-1
			Dry and Critical		6	6	-1
Total For All Regions							
Total Supplies	Contract Delivery (CVP, SWP and other) (annual average)	(TAF/year)	Long Term		8,162	8,385	-224
			Dry and Critical		6,593	7,099	-506

Notes:

1. Long Term is the average quantity for the period of Oct 1921 - Sep 2003.
2. Dry and Critical Years Average is the average quantity for the combination of the SWRCB D-1641 40-30-30 Dry and Critical years for the period of Oct 1921 - Sep 2003.
3. "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-52-1-2. CALSIM II Summary Reporting Metrics, Long-Term Average and Dry and Critical Year Averages

					No Action Alternative (ELT)	Existing Condition	No Action Alternative (ELT) minus Existing Condition
Water Supply Reliability							
North of Delta							
CVP Ag	Contract Delivery (annual average; does not include Exchange contractors)	(TAF/year)	Long Term		187	234	-47
			Dry and Critical		69	128	-59
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		391	210	181
			Dry and Critical		393	214	179
SWP Ag	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term		0	0	0
			Dry and Critical		0	0	0
SWP M&I	Contract Delivery (including Article 21, includes transfers to SWP contractors) (annual average)	(TAF/year)	Long Term		80	80	0
			Dry and Critical		56	66	-10
Total CVP North of Delta							
Total CVP Ag and M&I SOD	Contract Delivery (CVP) (annual average)	(TAF/year)	Long Term		577	444	133
			Dry and Critical		462	342	120
Total SWP North of Delta							
Total SWP Ag and M&I SOD	Contract Delivery (SWP) (annual average)	(TAF/year)	Long Term		80	80	0
			Dry and Critical		56	66	-10
Total North of Delta							
Total North of Delta Ag and M&I Deliveries	Contract Delivery (CVP, SWP and other) (annual average)	(TAF/year)	Long Term		657	524	133
			Dry and Critical		518	408	110
South of Delta							
CVP Ag	Contract Delivery (annual average; does not include Exchange contractors)	(TAF/year)	Long Term		846	967	-121
			Dry and Critical		345	536	-191
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		112	118	-5
			Dry and Critical		92	101	-9
SWP Ag	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term		655	789	-133
			Dry and Critical		448	529	-82
SWP M&I	Contract Delivery (including Article 21, includes transfers to SWP contractors) (annual average)	(TAF/year)	Long Term		1,834	1,919	-85
			Dry and Critical		1,320	1,590	-271
Total CVP South of Delta							
Total CVP Ag and M&I SOD	Contract Delivery (CVP) (annual average)	(TAF/year)	Long Term		958	1,085	-127
			Dry and Critical		437	637	-200
Total SWP South of Delta							
Total SWP Ag and M&I SOD	Contract Delivery (SWP) (annual average)	(TAF/year)	Long Term		2,489	2,707	-218
			Dry and Critical		1,767	2,119	-352
Total South of Delta							
Total South of Delta Ag and M&I Deliveries	Contract Delivery (CVP, SWP and other) (annual average)	(TAF/year)	Long Term		3,448	3,792	-345
			Dry and Critical		2,204	2,757	-553

Notes:

1. Long Term is the average quantity for the period of Oct 1921 - Sep 2003.
2. Dry and Critical Years Average is the average quantity for the combination of the SWRCB D-1641 40-30-30 Dry and Critical years for the period of Oct 1921 - Sep 2003.
3. "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-52-2-1. CALSIM II Summary Reporting Metrics, Long-Term Average and Dry and Critical Year Averages

					Alternative 2D (ELT)	Existing Condition	Alternative 2D (ELT) minus Existing Condition
Water Supply Reliability							
Sacramento River Hydrologic Region							
CVP Settlement	Contract Delivery (annual average)	(TAF/year)	Long Term		1,848	1,840	8
			Dry and Critical		1,810	1,823	-13
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term		155	132	23
			Dry and Critical		132	115	16
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		203	86	117
			Dry and Critical		162	76	87
CVP Ag	Contract Delivery (annual average - does not include Settlement contractors)	(TAF/year)	Long Term		190	234	-44
			Dry and Critical		69	128	-59
SWP FRSA	Contract Delivery (annual average)	(TAF/year)	Long Term		934	948	-14
			Dry and Critical		859	899	-40
SWP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		26	25	1
			Dry and Critical		14	18	-4
San Joaquin River Hydrologic Region (not including Friant-Kern and Madera Canal water users)							
CVP Exchange	Contract Delivery (annual average)	(TAF/year)	Long Term		852	852	0
			Dry and Critical		814	814	0
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term		260	281	-21
			Dry and Critical		246	267	-22
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		16	16	0
			Dry and Critical		12	13	-1
CVP Ag	Contract Delivery (annual average; does not include Exchange contractors)	(TAF/year)	Long Term		293	305	-12
			Dry and Critical		110	168	-58
SWP Ag	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term		4	4	0
			Dry and Critical		2	3	-1
San Francisco Bay Hydrologic Region							
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		290	226	63
			Dry and Critical		312	226	86
CVP Ag	Contract Delivery (annual average)	(TAF/year)	Long Term		36	37	-1
			Dry and Critical		13	20	-7
SWP M&I	Contract Delivery (including Article 21, includes transfers to SWP contractors) (annual average)	(TAF/year)	Long Term		231	199	32
			Dry and Critical		130	172	-42
Central Coast Hydrologic Region							
SWP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		51	47	4
			Dry and Critical		28	38	-10
Tulare Lake Hydrologic Region (not including Friant-Kern Canal water users)							
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term		12	15	-3
			Dry and Critical		11	14	-3
CVP Ag	Contract Delivery (annual average - includes Cross Valley Canal)	(TAF/year)	Long Term		613	625	-13
			Dry and Critical		228	348	-121
SWP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		98	90	7
			Dry and Critical		53	66	-13
SWP Ag	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term		868	775	93
			Dry and Critical		426	520	-94
South Lahontan Hydrologic Region							
SWP M&I	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term		301	272	29
			Dry and Critical		182	245	-63
South Coast Hydrologic Region							
SWP M&I	Contract Delivery (including Article 21, includes transfers to SWP contractors) (annual average)	(TAF/year)	Long Term		1,508	1,366	142
			Dry and Critical		919	1,118	-200
SWP Ag	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term		11	9	1
			Dry and Critical		5	6	-1
Total For All Regions							
Total Supplies	Contract Delivery (CVP, SWP and other) (annual average)	(TAF/year)	Long Term		8,798	8,385	413
			Dry and Critical		6,538	7,099	-561

Notes:

1. Long Term is the average quantity for the period of Oct 1921 - Sep 2003.
2. Dry and Critical Years Average is the average quantity for the combination of the SWRCB D-1641 40-30-30 Dry and Critical years for the period of Oct 1921 - Sep 2003.
3. "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-52-2-2. CALSIM II Summary Reporting Metrics, Long-Term Average and Dry and Critical Year Averages

					Alternative 2D (ELT)	Existing Condition	Alternative 2D (ELT) minus Existing Condition
Water Supply Reliability							
North of Delta							
CVP Ag	Contract Delivery (annual average; does not include Exchange contractors)	(TAF/year)	Long Term		190	234	-44
			Dry and Critical		69	128	-59
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		392	210	182
			Dry and Critical		394	214	180
SWP Ag	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term		0	0	0
			Dry and Critical		0	0	0
SWP M&I	Contract Delivery (including Article 21, includes transfers to SWP contractors) (annual average)	(TAF/year)	Long Term		90	80	10
			Dry and Critical		53	66	-14
Total CVP North of Delta							
Total CVP Ag and M&I SOD	Contract Delivery (CVP) (annual average)	(TAF/year)	Long Term		582	444	138
			Dry and Critical		464	342	121
Total SWP North of Delta							
Total SWP Ag and M&I SOD	Contract Delivery (SWP) (annual average)	(TAF/year)	Long Term		90	80	10
			Dry and Critical		53	66	-14
Total North of Delta							
Total North of Delta Ag and M&I Deliveries	Contract Delivery (CVP, SWP and other) (annual average)	(TAF/year)	Long Term		672	524	148
			Dry and Critical		516	408	108
South of Delta							
CVP Ag	Contract Delivery (annual average; does not include Exchange contractors)	(TAF/year)	Long Term		941	967	-26
			Dry and Critical		352	536	-185
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		116	118	-2
			Dry and Critical		92	101	-9
SWP Ag	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term		883	789	94
			Dry and Critical		434	529	-96
SWP M&I	Contract Delivery (including Article 21, includes transfers to SWP contractors) (annual average)	(TAF/year)	Long Term		2,125	1,919	206
			Dry and Critical		1,273	1,590	-318
Total CVP South of Delta							
Total CVP Ag and M&I SOD	Contract Delivery (CVP) (annual average)	(TAF/year)	Long Term		1,057	1,085	-28
			Dry and Critical		443	637	-194
Total SWP South of Delta							
Total SWP Ag and M&I SOD	Contract Delivery (SWP) (annual average)	(TAF/year)	Long Term		3,008	2,707	300
			Dry and Critical		1,706	2,119	-413
Total South of Delta							
Total South of Delta Ag and M&I Deliveries	Contract Delivery (CVP, SWP and other) (annual average)	(TAF/year)	Long Term		4,065	3,792	273
			Dry and Critical		2,150	2,757	-607

Notes:

1. Long Term is the average quantity for the period of Oct 1921 - Sep 2003.
2. Dry and Critical Years Average is the average quantity for the combination of the SWRCB D-1641 40-30-30 Dry and Critical years for the period of Oct 1921 - Sep 2003.
3. "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-52-3-1. CALSIM II Summary Reporting Metrics, Long-Term Average and Dry and Critical Year Averages

					Alternative 4A (ELT)	Existing Condition	Alternative 4A (ELT) minus Existing Condition
Water Supply Reliability							
Sacramento River Hydrologic Region							
CVP Settlement	Contract Delivery (annual average)	(TAF/year)	Long Term		1,848	1,840	8
			Dry and Critical		1,809	1,823	-13
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term		152	132	20
			Dry and Critical		133	115	17
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		204	86	118
			Dry and Critical		165	76	90
CVP Ag	Contract Delivery (annual average - does not include Settlement contractors)	(TAF/year)	Long Term		192	234	-42
			Dry and Critical		75	128	-53
SWP FRSA	Contract Delivery (annual average)	(TAF/year)	Long Term		935	948	-13
			Dry and Critical		861	899	-38
SWP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		23	25	-2
			Dry and Critical		14	18	-3
San Joaquin River Hydrologic Region (not including Friant-Kern and Madera Canal water users)							
CVP Exchange	Contract Delivery (annual average)	(TAF/year)	Long Term		852	852	0
			Dry and Critical		814	814	0
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term		259	281	-22
			Dry and Critical		244	267	-24
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		15	16	-1
			Dry and Critical		12	13	-1
CVP Ag	Contract Delivery (annual average; does not include Exchange contractors)	(TAF/year)	Long Term		259	305	-46
			Dry and Critical		107	168	-61
SWP Ag	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term		4	4	0
			Dry and Critical		2	3	-1
San Francisco Bay Hydrologic Region							
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		287	226	60
			Dry and Critical		312	226	86
CVP Ag	Contract Delivery (annual average)	(TAF/year)	Long Term		32	37	-5
			Dry and Critical		13	20	-7
SWP M&I	Contract Delivery (including Article 21, includes transfers to SWP contractors) (annual average)	(TAF/year)	Long Term		206	199	7
			Dry and Critical		133	172	-39
Central Coast Hydrologic Region							
SWP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		45	47	-2
			Dry and Critical		28	38	-10
Tulare Lake Hydrologic Region (not including Friant-Kern Canal water users)							
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term		12	15	-3
			Dry and Critical		11	14	-3
CVP Ag	Contract Delivery (annual average - includes Cross Valley Canal)	(TAF/year)	Long Term		542	625	-83
			Dry and Critical		221	348	-127
SWP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		86	90	-4
			Dry and Critical		54	66	-11
SWP Ag	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term		732	775	-43
			Dry and Critical		431	520	-90
South Lahontan Hydrologic Region							
SWP M&I	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term		268	272	-4
			Dry and Critical		183	245	-62
South Coast Hydrologic Region							
SWP M&I	Contract Delivery (including Article 21, includes transfers to SWP contractors) (annual average)	(TAF/year)	Long Term		1,386	1,366	19
			Dry and Critical		929	1,118	-189
SWP Ag	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term		9	9	0
			Dry and Critical		5	6	-1
Total For All Regions							
Total Supplies	Contract Delivery (CVP, SWP and other) (annual average)	(TAF/year)	Long Term		8,347	8,385	-39
			Dry and Critical		6,558	7,099	-541

Notes:

1. Long Term is the average quantity for the period of Oct 1921 - Sep 2003.
2. Dry and Critical Years Average is the average quantity for the combination of the SWRCB D-1641 40-30-30 Dry and Critical years for the period of Oct 1921 - Sep 2003.
3. "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-52-3-2. CALSIM II Summary Reporting Metrics, Long-Term Average and Dry and Critical Year Averages

					Alternative 4A (ELT)	Existing Condition	Alternative 4A (ELT) minus Existing Condition
Water Supply Reliability							
North of Delta							
CVP Ag	Contract Delivery (annual average; does not include Exchange contractors)	(TAF/year)	Long Term		192	234	-42
			Dry and Critical		75	128	-53
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		393	210	183
			Dry and Critical		397	214	183
SWP Ag	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term		0	0	0
			Dry and Critical		0	0	0
SWP M&I	Contract Delivery (including Article 21, includes transfers to SWP contractors) (annual average)	(TAF/year)	Long Term		83	80	3
			Dry and Critical		55	66	-11
Total CVP North of Delta							
Total CVP Ag and M&I SOD	Contract Delivery (CVP) (annual average)	(TAF/year)	Long Term		585	444	141
			Dry and Critical		472	342	130
Total SWP North of Delta							
Total SWP Ag and M&I SOD	Contract Delivery (SWP) (annual average)	(TAF/year)	Long Term		83	80	3
			Dry and Critical		55	66	-11
Total North of Delta							
Total North of Delta Ag and M&I Deliveries	Contract Delivery (CVP, SWP and other) (annual average)	(TAF/year)	Long Term		667	524	143
			Dry and Critical		528	408	119
South of Delta							
CVP Ag	Contract Delivery (annual average; does not include Exchange contractors)	(TAF/year)	Long Term		833	967	-134
			Dry and Critical		341	536	-195
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		112	118	-5
			Dry and Critical		92	101	-9
SWP Ag	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term		745	789	-44
			Dry and Critical		438	529	-91
SWP M&I	Contract Delivery (including Article 21, includes transfers to SWP contractors) (annual average)	(TAF/year)	Long Term		1,931	1,919	12
			Dry and Critical		1,286	1,590	-304
Total CVP South of Delta							
Total CVP Ag and M&I SOD	Contract Delivery (CVP) (annual average)	(TAF/year)	Long Term		945	1,085	-140
			Dry and Critical		433	637	-204
Total SWP South of Delta							
Total SWP Ag and M&I SOD	Contract Delivery (SWP) (annual average)	(TAF/year)	Long Term		2,675	2,707	-32
			Dry and Critical		1,725	2,119	-395
Total South of Delta							
Total South of Delta Ag and M&I Deliveries	Contract Delivery (CVP, SWP and other) (annual average)	(TAF/year)	Long Term		3,621	3,792	-172
			Dry and Critical		2,158	2,757	-599

Notes:

1. Long Term is the average quantity for the period of Oct 1921 - Sep 2003.
2. Dry and Critical Years Average is the average quantity for the combination of the SWRCB D-1641 40-30-30 Dry and Critical years for the period of Oct 1921 - Sep 2003.
3. "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-52-4-1. CALSIM II Summary Reporting Metrics, Long-Term Average and Dry and Critical Year Averages

					Alternative 5A (ELT)	Existing Condition	Alternative 5A (ELT) minus Existing Condition
Water Supply Reliability							
Sacramento River Hydrologic Region							
CVP Settlement	Contract Delivery (annual average)	(TAF/year)	Long Term		1,851	1,840	11
			Dry and Critical		1,818	1,823	-4
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term		154	132	22
			Dry and Critical		134	115	19
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		203	86	117
			Dry and Critical		164	76	88
CVP Ag	Contract Delivery (annual average - does not include Settlement contractors)	(TAF/year)	Long Term		190	234	-43
			Dry and Critical		77	128	-51
SWP FRSA	Contract Delivery (annual average)	(TAF/year)	Long Term		935	948	-13
			Dry and Critical		861	899	-38
SWP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		24	25	0
			Dry and Critical		14	18	-3
San Joaquin River Hydrologic Region (not including Friant-Kern and Madera Canal water users)							
CVP Exchange	Contract Delivery (annual average)	(TAF/year)	Long Term		852	852	0
			Dry and Critical		814	814	0
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term		261	281	-20
			Dry and Critical		248	267	-19
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		16	16	0
			Dry and Critical		13	13	-1
CVP Ag	Contract Delivery (annual average; does not include Exchange contractors)	(TAF/year)	Long Term		302	305	-3
			Dry and Critical		129	168	-39
SWP Ag	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term		4	4	0
			Dry and Critical		2	3	-1
San Francisco Bay Hydrologic Region							
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		291	226	64
			Dry and Critical		315	226	89
CVP Ag	Contract Delivery (annual average)	(TAF/year)	Long Term		37	37	0
			Dry and Critical		16	20	-4
SWP M&I	Contract Delivery (including Article 21, includes transfers to SWP contractors) (annual average)	(TAF/year)	Long Term		217	199	18
			Dry and Critical		133	172	-39
Central Coast Hydrologic Region							
SWP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		48	47	1
			Dry and Critical		29	38	-10
Tulare Lake Hydrologic Region (not including Friant-Kern Canal water users)							
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term		12	15	-3
			Dry and Critical		11	14	-3
CVP Ag	Contract Delivery (annual average - includes Cross Valley Canal)	(TAF/year)	Long Term		627	625	2
			Dry and Critical		267	348	-82
SWP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		91	90	1
			Dry and Critical		55	66	-11
SWP Ag	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term		763	775	-12
			Dry and Critical		423	520	-97
South Lahontan Hydrologic Region							
SWP M&I	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term		283	272	11
			Dry and Critical		185	245	-60
South Coast Hydrologic Region							
SWP M&I	Contract Delivery (including Article 21, includes transfers to SWP contractors) (annual average)	(TAF/year)	Long Term		1,436	1,366	69
			Dry and Critical		930	1,118	-188
SWP Ag	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term		9	9	0
			Dry and Critical		5	6	-1
Total For All Regions							
Total Supplies	Contract Delivery (CVP, SWP and other) (annual average)	(TAF/year)	Long Term		8,606	8,385	221
			Dry and Critical		6,644	7,099	-454

Notes:

1. Long Term is the average quantity for the period of Oct 1921 - Sep 2003.
2. Dry and Critical Years Average is the average quantity for the combination of the SWRCB D-1641 40-30-30 Dry and Critical years for the period of Oct 1921 - Sep 2003.
3. "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-52-4-2. CALSIM II Summary Reporting Metrics, Long-Term Average and Dry and Critical Year Averages

					Alternative 5A (ELT)	Existing Condition	Alternative 5A (ELT) minus Existing Condition
Water Supply Reliability							
North of Delta							
CVP Ag	Contract Delivery (annual average; does not include Exchange contractors)	(TAF/year)	Long Term		190	234	-43
			Dry and Critical		77	128	-51
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		392	210	182
			Dry and Critical		396	214	182
SWP Ag	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term		0	0	0
			Dry and Critical		0	0	0
SWP M&I	Contract Delivery (including Article 21, includes transfers to SWP contractors) (annual average)	(TAF/year)	Long Term		87	80	7
			Dry and Critical		55	66	-11
Total CVP North of Delta							
Total CVP Ag and M&I SOD	Contract Delivery (CVP) (annual average)	(TAF/year)	Long Term		583	444	139
			Dry and Critical		474	342	131
Total SWP North of Delta							
Total SWP Ag and M&I SOD	Contract Delivery (SWP) (annual average)	(TAF/year)	Long Term		87	80	7
			Dry and Critical		55	66	-11
Total North of Delta							
Total North of Delta Ag and M&I Deliveries	Contract Delivery (CVP, SWP and other) (annual average)	(TAF/year)	Long Term		670	524	146
			Dry and Critical		529	408	120
South of Delta							
CVP Ag	Contract Delivery (annual average; does not include Exchange contractors)	(TAF/year)	Long Term		966	967	-1
			Dry and Critical		411	536	-125
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		117	118	-1
			Dry and Critical		95	101	-5
SWP Ag	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term		777	789	-12
			Dry and Critical		431	529	-99
SWP M&I	Contract Delivery (including Article 21, includes transfers to SWP contractors) (annual average)	(TAF/year)	Long Term		2,011	1,919	93
			Dry and Critical		1,290	1,590	-300
Total CVP South of Delta							
Total CVP Ag and M&I SOD	Contract Delivery (CVP) (annual average)	(TAF/year)	Long Term		1,083	1,085	-2
			Dry and Critical		507	637	-131
Total SWP South of Delta							
Total SWP Ag and M&I SOD	Contract Delivery (SWP) (annual average)	(TAF/year)	Long Term		2,788	2,707	81
			Dry and Critical		1,721	2,119	-399
Total South of Delta							
Total South of Delta Ag and M&I Deliveries	Contract Delivery (CVP, SWP and other) (annual average)	(TAF/year)	Long Term		3,871	3,792	78
			Dry and Critical		2,227	2,757	-529

Notes:

1. Long Term is the average quantity for the period of Oct 1921 - Sep 2003.
2. Dry and Critical Years Average is the average quantity for the combination of the SWRCB D-1641 40-30-30 Dry and Critical years for the period of Oct 1921 - Sep 2003.
3. "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-52-5-1. CALSIM II Summary Reporting Metrics, Long-Term Average and Dry and Critical Year Averages

					Alternative 2D (ELT)	No Action Alternative (ELT)	Alternative 2D (ELT) minus No Action Alternative (ELT)
Water Supply Reliability							
Sacramento River Hydrologic Region							
CVP Settlement	Contract Delivery (annual average)	(TAF/year)	Long Term		1,848	1,848	0
			Dry and Critical		1,810	1,807	3
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term		155	150	5
			Dry and Critical		132	133	-2
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		203	201	2
			Dry and Critical		162	161	1
CVP Ag	Contract Delivery (annual average - does not include Settlement contractors)	(TAF/year)	Long Term		190	187	4
			Dry and Critical		69	69	0
SWP FRSA	Contract Delivery (annual average)	(TAF/year)	Long Term		934	934	0
			Dry and Critical		859	858	1
SWP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		26	22	4
			Dry and Critical		14	15	-1
San Joaquin River Hydrologic Region (not including Friant-Kern and Madera Canal water users)							
CVP Exchange	Contract Delivery (annual average)	(TAF/year)	Long Term		852	852	0
			Dry and Critical		814	814	0
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term		260	260	0
			Dry and Critical		246	246	0
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		16	15	1
			Dry and Critical		12	12	0
CVP Ag	Contract Delivery (annual average; does not include Exchange contractors)	(TAF/year)	Long Term		293	266	27
			Dry and Critical		110	108	2
SWP Ag	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term		4	3	1
			Dry and Critical		2	2	0
San Francisco Bay Hydrologic Region							
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		290	287	3
			Dry and Critical		312	312	0
CVP Ag	Contract Delivery (annual average)	(TAF/year)	Long Term		36	32	4
			Dry and Critical		13	13	0
SWP M&I	Contract Delivery (including Article 21, includes transfers to SWP contractors) (annual average)	(TAF/year)	Long Term		231	195	36
			Dry and Critical		130	137	-7
Central Coast Hydrologic Region							
SWP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		51	43	8
			Dry and Critical		28	30	-2
Tulare Lake Hydrologic Region (not including Friant-Kern Canal water users)							
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term		12	12	0
			Dry and Critical		11	11	0
CVP Ag	Contract Delivery (annual average - includes Cross Valley Canal)	(TAF/year)	Long Term		613	548	65
			Dry and Critical		228	224	4
SWP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		98	82	15
			Dry and Critical		53	57	-3
SWP Ag	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term		868	644	225
			Dry and Critical		426	440	-14
South Lahontan Hydrologic Region							
SWP M&I	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term		301	260	41
			Dry and Critical		182	191	-9
South Coast Hydrologic Region							
SWP M&I	Contract Delivery (including Article 21, includes transfers to SWP contractors) (annual average)	(TAF/year)	Long Term		1,508	1,312	196
			Dry and Critical		919	947	-28
SWP Ag	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term		11	8	2
			Dry and Critical		5	6	0
Total For All Regions							
Total Supplies	Contract Delivery (CVP, SWP and other) (annual average)	(TAF/year)	Long Term		8,798	8,162	637
			Dry and Critical		6,538	6,593	-55

Notes:

1. Long Term is the average quantity for the period of Oct 1921 - Sep 2003.
2. Dry and Critical Years Average is the average quantity for the combination of the SWRCB D-1641 40-30-30 Dry and Critical years for the period of Oct 1921 - Sep 2003.
3. "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-52-5-2. CALSIM II Summary Reporting Metrics, Long-Term Average and Dry and Critical Year Averages

					Alternative 2D (ELT)	No Action Alternative (ELT)	Alternative 2D (ELT) minus No Action Alternative (ELT)
Water Supply Reliability							
North of Delta							
CVP Ag	Contract Delivery (annual average; does not include Exchange contractors)	(TAF/year)	Long Term		190	187	4
			Dry and Critical		69	69	0
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		392	391	2
			Dry and Critical		394	393	1
SWP Ag	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term		0	0	0
			Dry and Critical		0	0	0
SWP M&I	Contract Delivery (including Article 21, includes transfers to SWP contractors) (annual average)	(TAF/year)	Long Term		90	80	10
			Dry and Critical		53	56	-4
Total CVP North of Delta							
Total CVP Ag and M&I SOD	Contract Delivery (CVP) (annual average)	(TAF/year)	Long Term		582	577	5
			Dry and Critical		464	462	2
Total SWP North of Delta							
Total SWP Ag and M&I SOD	Contract Delivery (SWP) (annual average)	(TAF/year)	Long Term		90	80	10
			Dry and Critical		53	56	-4
Total North of Delta							
Total North of Delta Ag and M&I Deliveries	Contract Delivery (CVP, SWP and other) (annual average)	(TAF/year)	Long Term		672	657	15
			Dry and Critical		516	518	-2
South of Delta							
CVP Ag	Contract Delivery (annual average; does not include Exchange contractors)	(TAF/year)	Long Term		941	846	95
			Dry and Critical		352	345	7
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		116	112	4
			Dry and Critical		92	92	0
SWP Ag	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term		883	655	228
			Dry and Critical		434	448	-14
SWP M&I	Contract Delivery (including Article 21, includes transfers to SWP contractors) (annual average)	(TAF/year)	Long Term		2,125	1,834	291
			Dry and Critical		1,273	1,320	-47
Total CVP South of Delta							
Total CVP Ag and M&I SOD	Contract Delivery (CVP) (annual average)	(TAF/year)	Long Term		1,057	958	99
			Dry and Critical		443	437	6
Total SWP South of Delta							
Total SWP Ag and M&I SOD	Contract Delivery (SWP) (annual average)	(TAF/year)	Long Term		3,008	2,489	518
			Dry and Critical		1,706	1,767	-61
Total South of Delta							
Total South of Delta Ag and M&I Deliveries	Contract Delivery (CVP, SWP and other) (annual average)	(TAF/year)	Long Term		4,065	3,448	617
			Dry and Critical		2,150	2,204	-55

Notes:

1. Long Term is the average quantity for the period of Oct 1921 - Sep 2003.
2. Dry and Critical Years Average is the average quantity for the combination of the SWRCB D-1641 40-30-30 Dry and Critical years for the period of Oct 1921 - Sep 2003.
3. "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-52-6-1. CALSIM II Summary Reporting Metrics, Long-Term Average and Dry and Critical Year Averages

					Alternative 4A (ELT)	No Action Alternative (ELT)	Alternative 4A (ELT) minus No Action Alternative (ELT)
Water Supply Reliability							
Sacramento River Hydrologic Region							
CVP Settlement	Contract Delivery (annual average)	(TAF/year)	Long Term		1,848	1,848	0
			Dry and Critical		1,809	1,807	2
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term		152	150	1
			Dry and Critical		133	133	-1
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		204	201	2
			Dry and Critical		165	161	4
CVP Ag	Contract Delivery (annual average - does not include Settlement contractors)	(TAF/year)	Long Term		192	187	5
			Dry and Critical		75	69	6
SWP FRSA	Contract Delivery (annual average)	(TAF/year)	Long Term		935	934	1
			Dry and Critical		861	858	3
SWP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		23	22	1
			Dry and Critical		14	15	-1
San Joaquin River Hydrologic Region (not including Friant-Kern and Madera Canal water users)							
CVP Exchange	Contract Delivery (annual average)	(TAF/year)	Long Term		852	852	0
			Dry and Critical		814	814	0
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term		259	260	-1
			Dry and Critical		244	246	-2
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		15	15	0
			Dry and Critical		12	12	0
CVP Ag	Contract Delivery (annual average; does not include Exchange contractors)	(TAF/year)	Long Term		259	266	-7
			Dry and Critical		107	108	-1
SWP Ag	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term		4	3	0
			Dry and Critical		2	2	0
San Francisco Bay Hydrologic Region							
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		287	287	0
			Dry and Critical		312	312	0
CVP Ag	Contract Delivery (annual average)	(TAF/year)	Long Term		32	32	0
			Dry and Critical		13	13	0
SWP M&I	Contract Delivery (including Article 21, includes transfers to SWP contractors) (annual average)	(TAF/year)	Long Term		206	195	11
			Dry and Critical		133	137	-4
Central Coast Hydrologic Region							
SWP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		45	43	2
			Dry and Critical		28	30	-1
Tulare Lake Hydrologic Region (not including Friant-Kern Canal water users)							
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term		12	12	0
			Dry and Critical		11	11	0
CVP Ag	Contract Delivery (annual average - includes Cross Valley Canal)	(TAF/year)	Long Term		542	548	-6
			Dry and Critical		221	224	-2
SWP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		86	82	4
			Dry and Critical		54	57	-2
SWP Ag	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term		732	644	88
			Dry and Critical		431	440	-9
South Lahontan Hydrologic Region							
SWP M&I	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term		268	260	8
			Dry and Critical		183	191	-8
South Coast Hydrologic Region							
SWP M&I	Contract Delivery (including Article 21, includes transfers to SWP contractors) (annual average)	(TAF/year)	Long Term		1,386	1,312	74
			Dry and Critical		929	947	-18
SWP Ag	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term		9	8	1
			Dry and Critical		5	6	0
Total For All Regions							
Total Supplies	Contract Delivery (CVP, SWP and other) (annual average)	(TAF/year)	Long Term		8,347	8,162	185
			Dry and Critical		6,558	6,593	-35

Notes:

1. Long Term is the average quantity for the period of Oct 1921 - Sep 2003.
2. Dry and Critical Years Average is the average quantity for the combination of the SWRCB D-1641 40-30-30 Dry and Critical years for the period of Oct 1921 - Sep 2003.
3. "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-52-6-2. CALSIM II Summary Reporting Metrics, Long-Term Average and Dry and Critical Year Averages

					Alternative 4A (ELT)	No Action Alternative (ELT)	Alternative 4A (ELT) minus No Action Alternative (ELT)
Water Supply Reliability							
North of Delta							
CVP Ag	Contract Delivery (annual average; does not include Exchange contractors)	(TAF/year)	Long Term		192	187	5
			Dry and Critical		75	69	6
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		393	391	2
			Dry and Critical		397	393	4
SWP Ag	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term		0	0	0
			Dry and Critical		0	0	0
SWP M&I	Contract Delivery (including Article 21, includes transfers to SWP contractors) (annual average)	(TAF/year)	Long Term		83	80	3
			Dry and Critical		55	56	-1
Total CVP North of Delta							
Total CVP Ag and M&I SOD	Contract Delivery (CVP) (annual average)	(TAF/year)	Long Term		585	577	8
			Dry and Critical		472	462	11
Total SWP North of Delta							
Total SWP Ag and M&I SOD	Contract Delivery (SWP) (annual average)	(TAF/year)	Long Term		83	80	3
			Dry and Critical		55	56	-1
Total North of Delta							
Total North of Delta Ag and M&I Deliveries	Contract Delivery (CVP, SWP and other) (annual average)	(TAF/year)	Long Term		667	657	10
			Dry and Critical		528	518	9
South of Delta							
CVP Ag	Contract Delivery (annual average; does not include Exchange contractors)	(TAF/year)	Long Term		833	846	-13
			Dry and Critical		341	345	-4
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		112	112	0
			Dry and Critical		92	92	0
SWP Ag	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term		745	655	89
			Dry and Critical		438	448	-9
SWP M&I	Contract Delivery (including Article 21, includes transfers to SWP contractors) (annual average)	(TAF/year)	Long Term		1,931	1,834	97
			Dry and Critical		1,286	1,320	-33
Total CVP South of Delta							
Total CVP Ag and M&I SOD	Contract Delivery (CVP) (annual average)	(TAF/year)	Long Term		945	958	-13
			Dry and Critical		433	437	-4
Total SWP South of Delta							
Total SWP Ag and M&I SOD	Contract Delivery (SWP) (annual average)	(TAF/year)	Long Term		2,675	2,489	186
			Dry and Critical		1,725	1,767	-42
Total South of Delta							
Total South of Delta Ag and M&I Deliveries	Contract Delivery (CVP, SWP and other) (annual average)	(TAF/year)	Long Term		3,621	3,448	173
			Dry and Critical		2,158	2,204	-46

Notes:

1. Long Term is the average quantity for the period of Oct 1921 - Sep 2003.
2. Dry and Critical Years Average is the average quantity for the combination of the SWRCB D-1641 40-30-30 Dry and Critical years for the period of Oct 1921 - Sep 2003.
3. "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-52-7-1. CALSIM II Summary Reporting Metrics, Long-Term Average and Dry and Critical Year Averages

					Alternative 5A (ELT)	No Action Alternative (ELT)	Alternative 5A (ELT) minus No Action Alternative (ELT)
Water Supply Reliability							
Sacramento River Hydrologic Region							
CVP Settlement	Contract Delivery (annual average)	(TAF/year)	Long Term		1,851	1,848	3
			Dry and Critical		1,818	1,807	11
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term		154	150	4
			Dry and Critical		134	133	1
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		203	201	1
			Dry and Critical		164	161	3
CVP Ag	Contract Delivery (annual average - does not include Settlement contractors)	(TAF/year)	Long Term		190	187	4
			Dry and Critical		77	69	9
SWP FRSA	Contract Delivery (annual average)	(TAF/year)	Long Term		935	934	1
			Dry and Critical		861	858	3
SWP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		24	22	2
			Dry and Critical		14	15	-1
San Joaquin River Hydrologic Region (not including Friant-Kern and Madera Canal water users)							
CVP Exchange	Contract Delivery (annual average)	(TAF/year)	Long Term		852	852	0
			Dry and Critical		814	814	0
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term		261	260	1
			Dry and Critical		248	246	2
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		16	15	1
			Dry and Critical		13	12	1
CVP Ag	Contract Delivery (annual average; does not include Exchange contractors)	(TAF/year)	Long Term		302	266	36
			Dry and Critical		129	108	21
SWP Ag	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term		4	3	0
			Dry and Critical		2	2	0
San Francisco Bay Hydrologic Region							
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		291	287	4
			Dry and Critical		315	312	3
CVP Ag	Contract Delivery (annual average)	(TAF/year)	Long Term		37	32	5
			Dry and Critical		16	13	3
SWP M&I	Contract Delivery (including Article 21, includes transfers to SWP contractors) (annual average)	(TAF/year)	Long Term		217	195	22
			Dry and Critical		133	137	-4
Central Coast Hydrologic Region							
SWP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		48	43	5
			Dry and Critical		29	30	-1
Tulare Lake Hydrologic Region (not including Friant-Kern Canal water users)							
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term		12	12	0
			Dry and Critical		11	11	0
CVP Ag	Contract Delivery (annual average - includes Cross Valley Canal)	(TAF/year)	Long Term		627	548	79
			Dry and Critical		267	224	43
SWP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		91	82	9
			Dry and Critical		55	57	-2
SWP Ag	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term		763	644	120
			Dry and Critical		423	440	-17
South Lahontan Hydrologic Region							
SWP M&I	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term		283	260	23
			Dry and Critical		185	191	-6
South Coast Hydrologic Region							
SWP M&I	Contract Delivery (including Article 21, includes transfers to SWP contractors) (annual average)	(TAF/year)	Long Term		1,436	1,312	124
			Dry and Critical		930	947	-17
SWP Ag	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term		9	8	1
			Dry and Critical		5	6	0
Total For All Regions							
Total Supplies	Contract Delivery (CVP, SWP and other) (annual average)	(TAF/year)	Long Term		8,606	8,162	444
			Dry and Critical		6,644	6,593	52

Notes:

1. Long Term is the average quantity for the period of Oct 1921 - Sep 2003.
2. Dry and Critical Years Average is the average quantity for the combination of the SWRCB D-1641 40-30-30 Dry and Critical years for the period of Oct 1921 - Sep 2003.
3. "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-52-7-2. CALSIM II Summary Reporting Metrics, Long-Term Average and Dry and Critical Year Averages

					Alternative 5A (ELT)	No Action Alternative (ELT)	Alternative 5A (ELT) minus No Action Alternative (ELT)
Water Supply Reliability							
North of Delta							
CVP Ag	Contract Delivery (annual average; does not include Exchange contractors)	(TAF/year)	Long Term		190	187	4
			Dry and Critical		77	69	9
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		392	391	1
			Dry and Critical		396	393	3
SWP Ag	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term		0	0	0
			Dry and Critical		0	0	0
SWP M&I	Contract Delivery (including Article 21, includes transfers to SWP contractors) (annual average)	(TAF/year)	Long Term		87	80	7
			Dry and Critical		55	56	-1
Total CVP North of Delta							
Total CVP Ag and M&I SOD	Contract Delivery (CVP) (annual average)	(TAF/year)	Long Term		583	577	5
			Dry and Critical		474	462	12
Total SWP North of Delta							
Total SWP Ag and M&I SOD	Contract Delivery (SWP) (annual average)	(TAF/year)	Long Term		87	80	7
			Dry and Critical		55	56	-1
Total North of Delta							
Total North of Delta Ag and M&I Deliveries	Contract Delivery (CVP, SWP and other) (annual average)	(TAF/year)	Long Term		670	657	13
			Dry and Critical		529	518	11
South of Delta							
CVP Ag	Contract Delivery (annual average; does not include Exchange contractors)	(TAF/year)	Long Term		966	846	120
			Dry and Critical		411	345	66
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		117	112	5
			Dry and Critical		95	92	3
SWP Ag	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term		777	655	121
			Dry and Critical		431	448	-17
SWP M&I	Contract Delivery (including Article 21, includes transfers to SWP contractors) (annual average)	(TAF/year)	Long Term		2,011	1,834	177
			Dry and Critical		1,290	1,320	-29
Total CVP South of Delta							
Total CVP Ag and M&I SOD	Contract Delivery (CVP) (annual average)	(TAF/year)	Long Term		1,083	958	124
			Dry and Critical		507	437	70
Total SWP South of Delta							
Total SWP Ag and M&I SOD	Contract Delivery (SWP) (annual average)	(TAF/year)	Long Term		2,788	2,489	299
			Dry and Critical		1,721	1,767	-46
Total South of Delta							
Total South of Delta Ag and M&I Deliveries	Contract Delivery (CVP, SWP and other) (annual average)	(TAF/year)	Long Term		3,871	3,448	423
			Dry and Critical		2,227	2,204	23

Notes:

1. Long Term is the average quantity for the period of Oct 1921 - Sep 2003.
2. Dry and Critical Years Average is the average quantity for the combination of the SWRCB D-1641 40-30-30 Dry and Critical years for the period of Oct 1921 - Sep 2003.
3. "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-52-8. CALSIM II SWP Table A and Article 21 Deliveries, Long-Term Averages

	SWP Deliveries		Difference from Existing Condition		Difference from No Action Alternative (LLT)	
	SWP Table A Delivery (w Art 56)	SWP Article 21 Delivery	SWP Table A Delivery (w Art 56)	SWP Article 21 Delivery	SWP Table A Delivery (w Art 56)	SWP Article 21 Delivery
	(TAF)	(TAF)	(TAF)	(TAF)	(TAF)	(TAF)
Existing Condition	2,629	158				
No Action Alternative (ELT)	2,520	49	-109	-109		
Alternative 2D (ELT)	2,916	181	287	23	397	132
Alternative 4A (ELT)	2,615	143	-13	-16	96	93
Alternative 5A (ELT)	2,760	115	132	-44	241	65

Note:
1. Long Term is the average quantity for the period of Oct 1921 - Sep 2001
2. "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-52-9. CALSIM II SWP South of Delta Table A and Article 21 Deliveries, Long-Term Averages

	SWP Deliveries		Difference from Existing Condition		Difference from No Action Alternative (LLT)	
	SWP SOD Table A Delivery (w Art 56)	SWP Article 21 Delivery	SWP SOD Table A Delivery (w Art 56)	SWP Article 21 Delivery	SWP SOD Table A Delivery (w Art 56)	SWP Article 21 Delivery
	(TAF)	(TAF)	(TAF)	(TAF)	(TAF)	(TAF)
Existing Condition	2,576	158				
No Action Alternative (ELT)	2,451	49	-124	-109		
Alternative 2D (ELT)	2,836	181	261	23	385	132
Alternative 4A (ELT)	2,544	143	-32	-16	93	93
Alternative 5A (ELT)	2,685	115	109	-44	233	65

Note:
1. Long Term is the average quantity for the period of Oct 1921 - Sep 2001
2. "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

C.53. Trinity River Flow below Lewiston

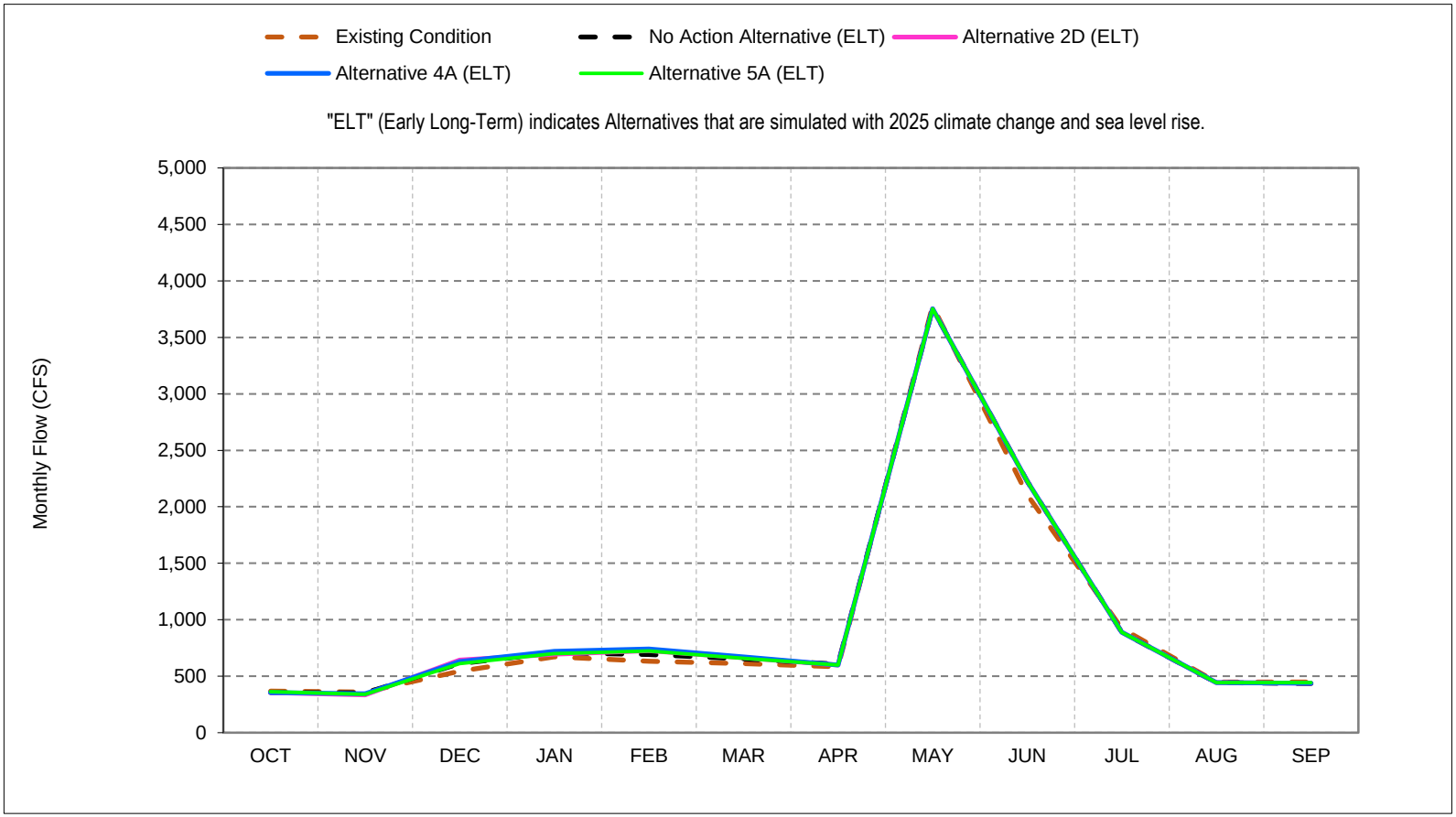
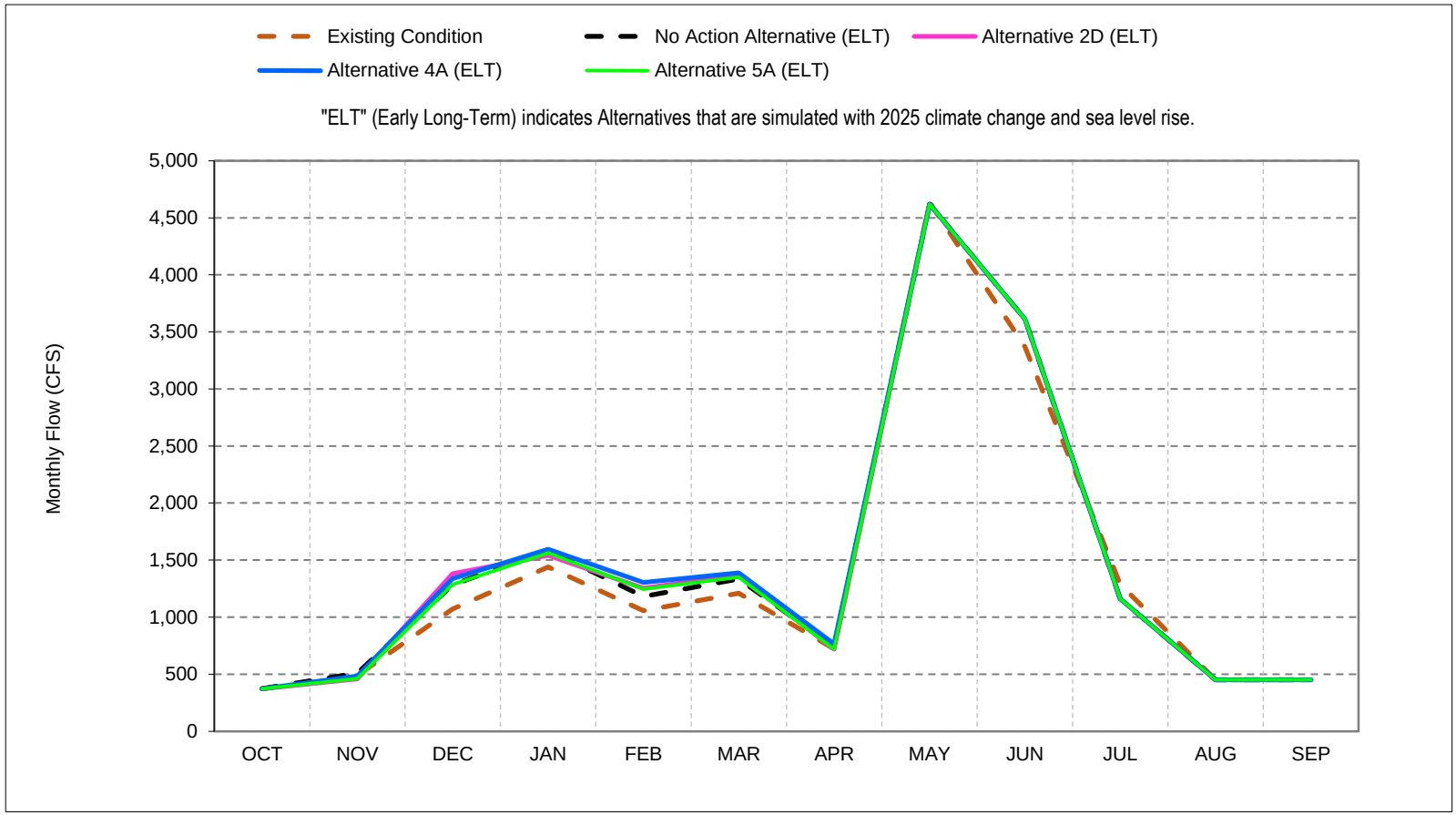
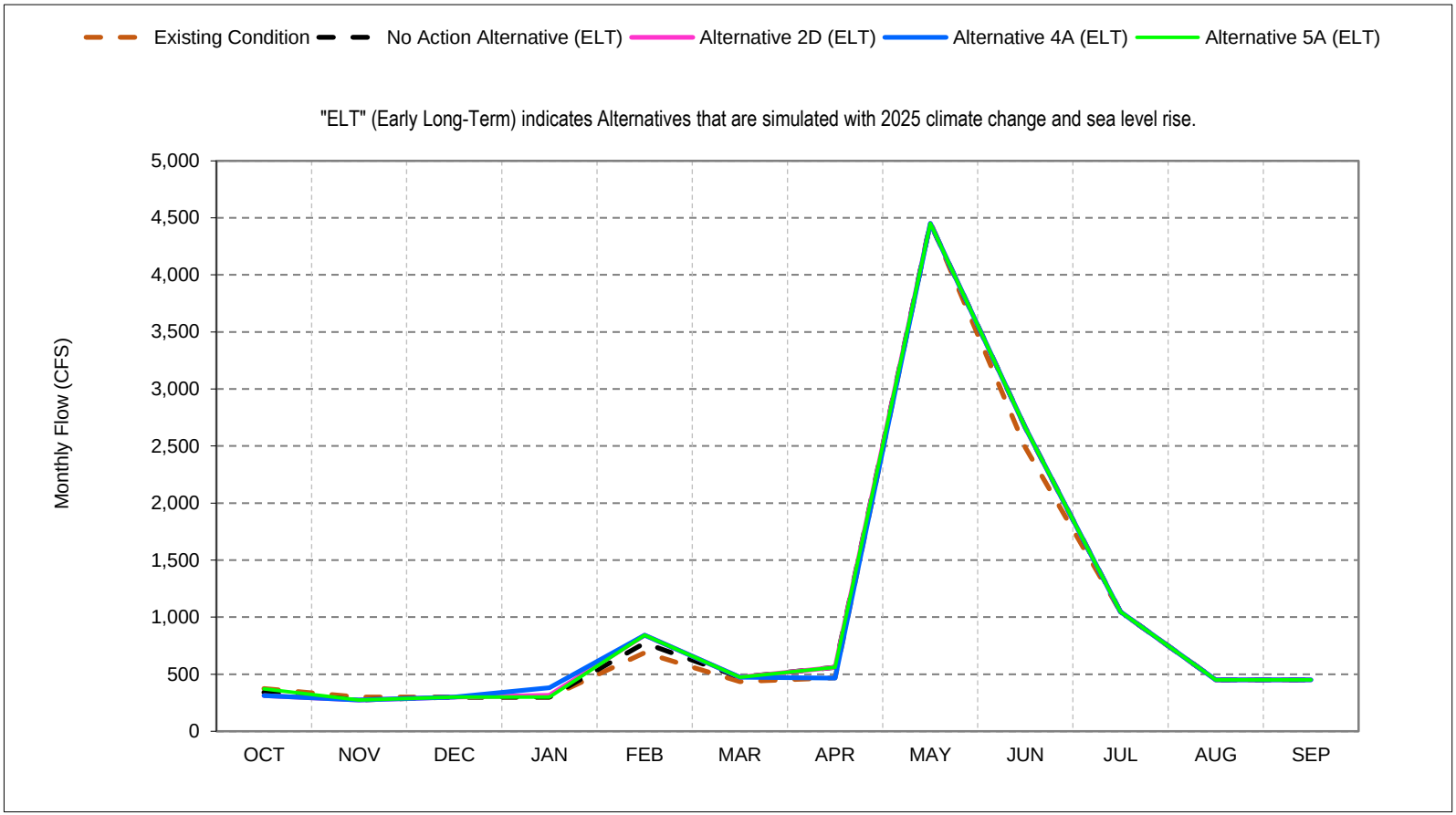


Figure C-53-1. Trinity River below Lewiston Reservoir, Long-Term Average Flow



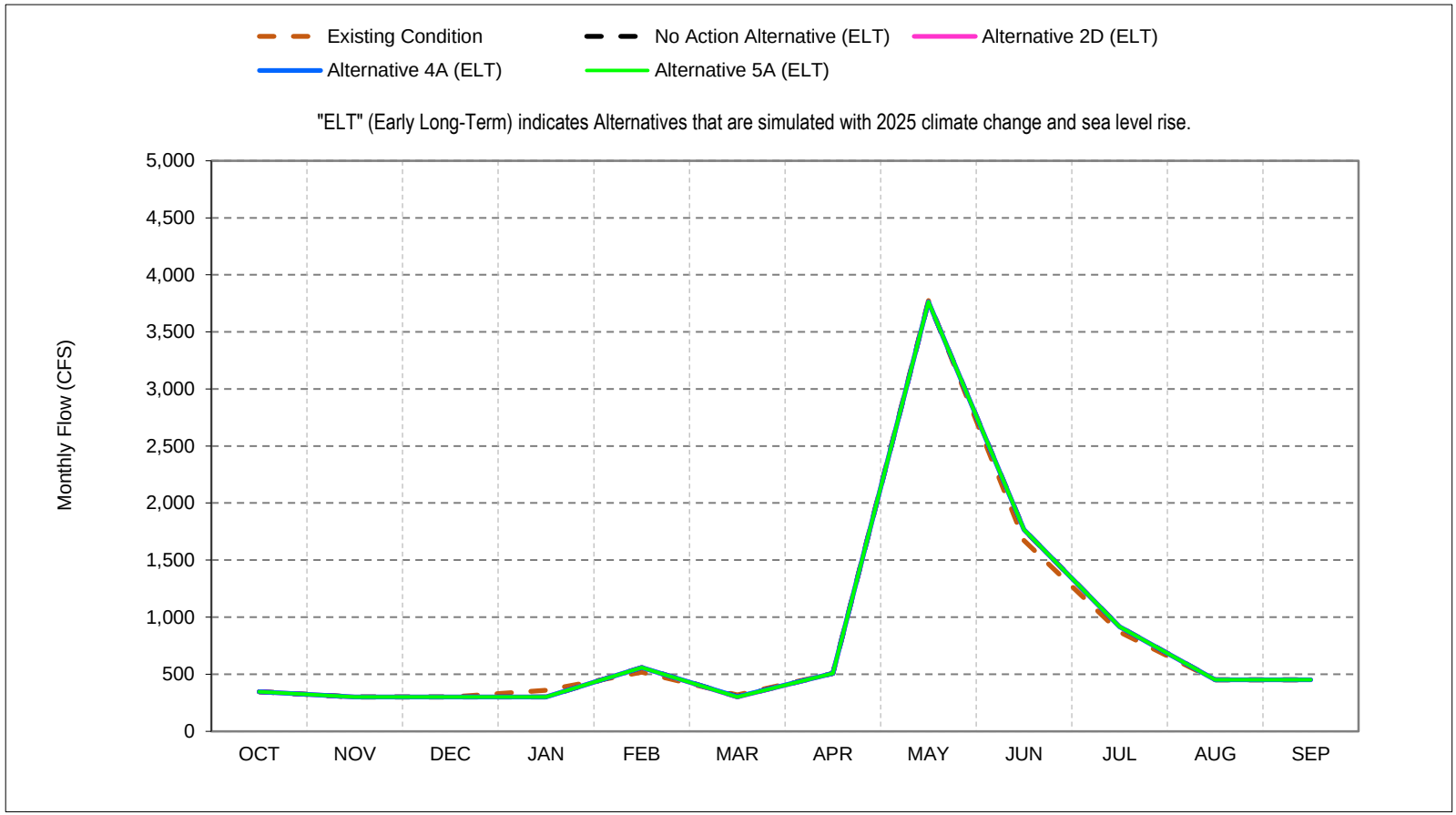
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-53-2. Trinity River below Lewiston Reservoir, Wet Year* Average Flow



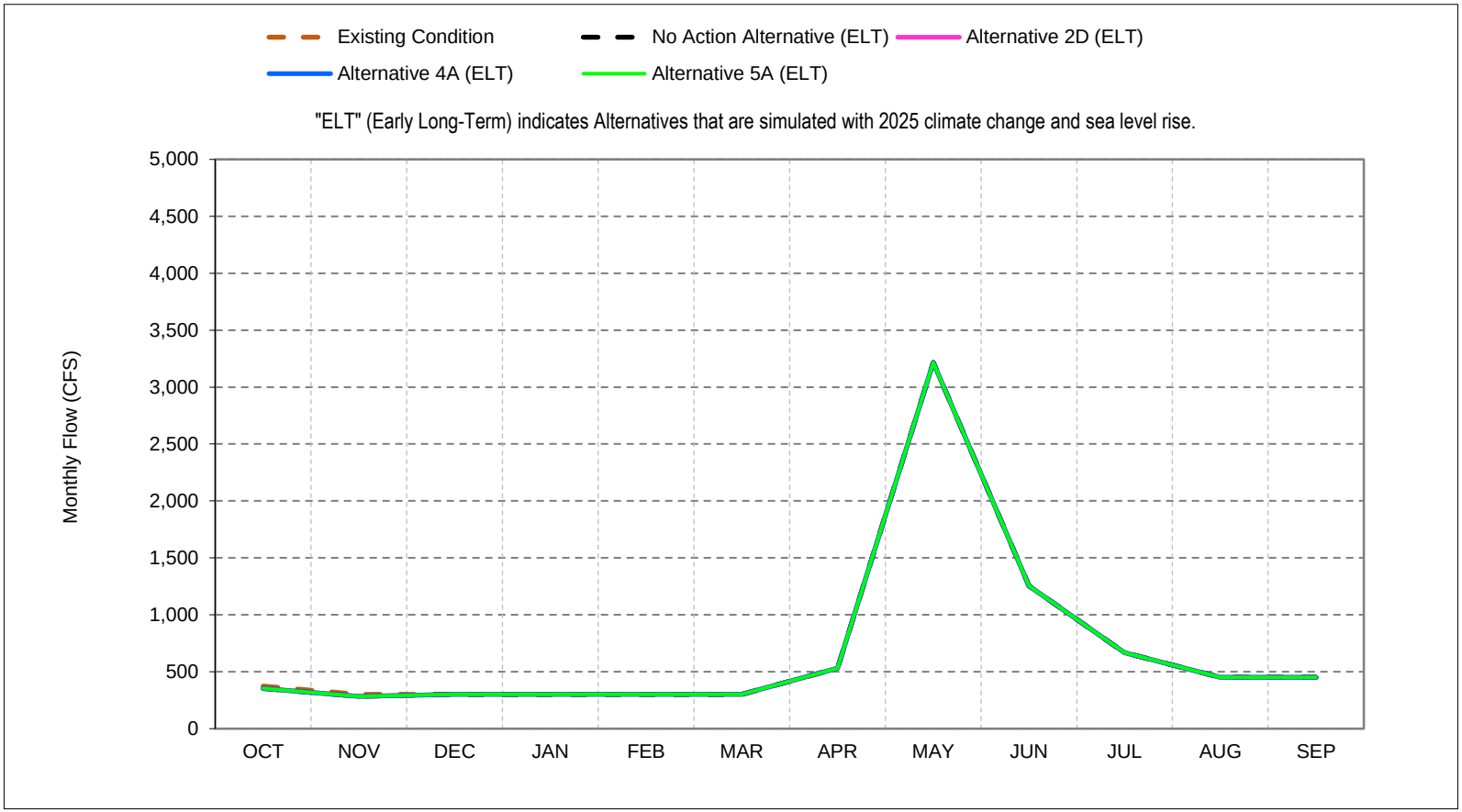
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-53-3. Trinity River below Lewiston Reservoir, Above Normal Year* Average Flow



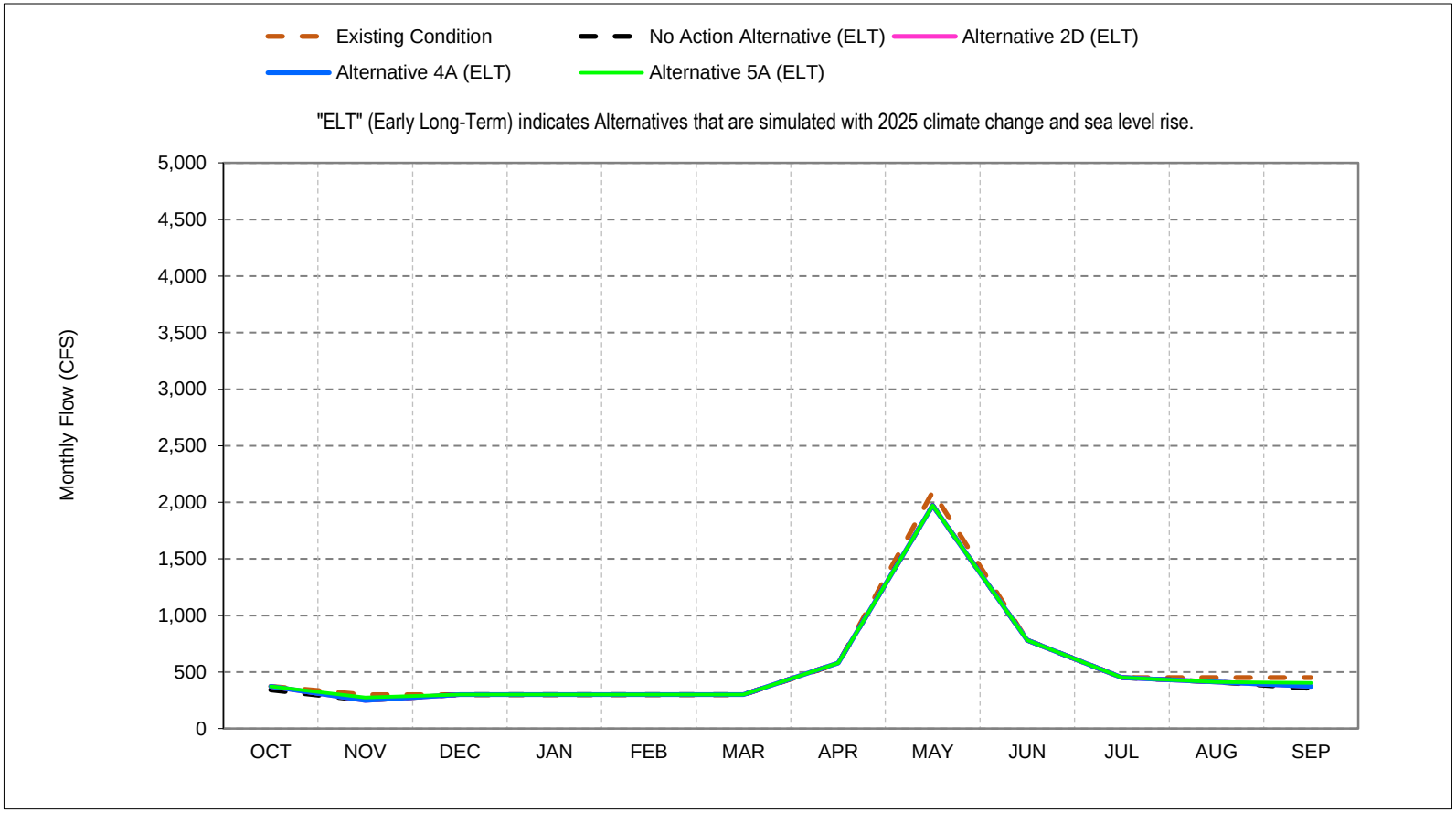
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-53-4. Trinity River below Lewiston Reservoir, Below Normal Year* Average Flow



*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-53-5. Trinity River below Lewiston Reservoir, Dry Year* Average Flow



*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-53-6. Trinity River below Lewiston Reservoir, Critical Year* Average Flow

Table C-53-1. Trinity River below Lewiston Reservoir, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	373	300	300	1,102	1,169	1,080	600	4,709	4,626	1,102	450	450
20%	373	300	300	300	300	300	540	4,709	2,526	1,102	450	450
30%	373	300	300	300	300	300	540	4,667	2,526	1,102	450	450
40%	373	300	300	300	300	300	540	4,570	2,526	1,102	450	450
50%	373	300	300	300	300	300	493	4,189	2,120	1,102	450	450
60%	373	300	300	300	300	300	493	4,189	2,120	1,102	450	450
70%	373	300	300	300	300	300	460	2,924	783	450	450	450
80%	373	300	300	300	300	300	460	2,924	783	450	450	450
90%	373	300	300	300	300	300	460	1,641	783	450	450	450
Long Term												
Full Simulation Period[a]	368	360	545	671	634	611	584	3,779	2,108	923	450	450
Water Year Types[b]												
Wet (32%)	373	489	1,072	1,440	1,056	1,209	721	4,636	3,371	1,289	450	450
Above Normal (15%)	373	300	300	300	689	436	469	4,462	2,488	1,048	450	450
Below Normal (17%)	346	300	300	358	517	319	507	3,774	1,672	869	450	450
Dry (22%)	373	300	300	300	300	300	529	3,216	1,251	667	450	450
Critical (15%)	373	300	300	300	300	300	575	2,092	783	450	450	450

No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	373	300	300	806	1,590	328	600	4,709	4,626	1,102	450	450
20%	373	300	300	300	300	300	600	4,709	2,526	1,102	450	450
30%	373	300	300	300	300	300	540	4,570	2,526	1,102	450	450
40%	373	300	300	300	300	300	540	4,570	2,526	1,102	450	450
50%	373	300	300	300	300	300	493	4,189	2,120	1,102	450	450
60%	373	300	300	300	300	300	493	4,189	2,120	1,102	450	450
70%	373	300	300	300	300	300	460	2,924	783	450	450	450
80%	373	300	300	300	300	300	460	2,924	783	450	450	450
90%	373	300	300	300	300	300	427	1,498	783	450	450	450
Long Term												
Full Simulation Period[a]	355	352	612	707	693	654	606	3,753	2,226	890	445	436
Water Year Types[b]												
Wet (32%)	373	510	1,285	1,584	1,181	1,333	743	4,620	3,613	1,161	450	450
Above Normal (15%)	341	275	300	300	774	475	561	4,450	2,663	1,048	450	450
Below Normal (17%)	346	300	300	300	559	302	508	3,763	1,767	916	450	450
Dry (22%)	352	283	300	300	300	300	529	3,216	1,251	667	450	450
Critical (15%)	342	250	300	300	300	300	580	1,973	783	450	413	357

No Action Alternative (ELT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	0	-296	422	-752	0	0	0	0	0	0
20%	0	0	0	0	0	0	60	0	0	0	0	0
30%	0	0	0	0	0	0	0	-97	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	-33	-143	0	0	0	0
Long Term												
Full Simulation Period[a]	-14	-8	68	36	59	42	21	-26	119	-33	-5	-14
Water Year Types[b]												
Wet (32%)	0	21	213	144	125	125	22	-16	242	-128	0	0
Above Normal (15%)	-32	-25	0	0	85	39	92	-12	175	0	0	0
Below Normal (17%)	0	0	0	-58	43	-16	1	-12	96	47	0	0
Dry (22%)	-21	-17	0	0	0	0	0	0	0	0	0	0
Critical (15%)	-31	-50	0	0	0	0	5	-119	0	0	-38	-93

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-53-2. Trinity River below Lewiston Reservoir, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	373	300	300	1,102	1,169	1,080	600	4,709	4,626	1,102	450	450
20%	373	300	300	300	300	300	540	4,709	2,526	1,102	450	450
30%	373	300	300	300	300	300	540	4,667	2,526	1,102	450	450
40%	373	300	300	300	300	300	540	4,570	2,526	1,102	450	450
50%	373	300	300	300	300	300	493	4,189	2,120	1,102	450	450
60%	373	300	300	300	300	300	493	4,189	2,120	1,102	450	450
70%	373	300	300	300	300	300	460	2,924	783	450	450	450
80%	373	300	300	300	300	300	460	2,924	783	450	450	450
90%	373	300	300	300	300	300	460	1,641	783	450	450	450
Long Term												
Full Simulation Period[a]	368	360	545	671	634	611	584	3,779	2,108	923	450	450
Water Year Types[b]												
Wet (32%)	373	489	1,072	1,440	1,056	1,209	721	4,636	3,371	1,289	450	450
Above Normal (15%)	373	300	300	300	689	436	469	4,462	2,488	1,048	450	450
Below Normal (17%)	346	300	300	358	517	319	507	3,774	1,672	869	450	450
Dry (22%)	373	300	300	300	300	300	529	3,216	1,251	667	450	450
Critical (15%)	373	300	300	300	300	300	575	2,092	783	450	450	450

Alternative 2D (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	373	300	300	911	2,099	300	600	4,709	4,626	1,102	450	450
20%	373	300	300	300	300	300	588	4,709	2,526	1,102	450	450
30%	373	300	300	300	300	300	540	4,570	2,526	1,102	450	450
40%	373	300	300	300	300	300	540	4,570	2,526	1,102	450	450
50%	373	300	300	300	300	300	493	4,189	2,120	1,102	450	450
60%	373	300	300	300	300	300	493	4,189	2,120	1,102	450	450
70%	373	300	300	300	300	300	460	2,924	783	450	450	450
80%	373	300	300	300	300	300	460	2,924	783	450	450	450
90%	373	300	300	300	300	300	427	1,498	783	450	450	450
Long Term												
Full Simulation Period[a]	355	336	642	696	725	665	598	3,753	2,226	890	445	439
Water Year Types[b]												
Wet (32%)	373	459	1,380	1,542	1,252	1,369	719	4,620	3,613	1,161	450	450
Above Normal (15%)	312	275	300	315	843	475	561	4,450	2,663	1,048	450	450
Below Normal (17%)	346	300	300	300	559	300	508	3,763	1,767	916	450	450
Dry (22%)	352	283	300	300	300	300	529	3,216	1,251	667	450	450
Critical (15%)	373	250	300	300	300	300	580	1,973	783	450	413	374

Alternative 2D (ELT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	0	**-192**	931	**-780**	0	0	0	0	0	0
20%	0	0	0	0	0	0	48	0	0	0	0	0
30%	0	0	0	0	0	0	0	**-97**	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	**-33**	**-143**	0	0	0	0
Long Term												
Full Simulation Period[a]	**-14**	**-24**	98	25	92	53	14	**-26**	119	**-33**	**-5**	**-11**
Water Year Types[b]												
Wet (32%)	0	**-29**	309	102	195	160	**-2**	**-16**	242	**-128**	0	0
Above Normal (15%)	**-61**	**-25**	0	15	153	39	92	**-12**	175	0	0	0
Below Normal (17%)	0	0	0	**-58**	43	**-19**	1	**-12**	96	47	0	0
Dry (22%)	**-21**	**-17**	0	0	0	0	0	0	0	0	0	0
Critical (15%)	**0**	**-50**	0	0	0	0	5	**-119**	0	0	**-38**	**-76**

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-53-3. Trinity River below Lewiston Reservoir, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	373	300	300	1,102	1,169	1,080	600	4,709	4,626	1,102	450	450
20%	373	300	300	300	300	300	540	4,709	2,526	1,102	450	450
30%	373	300	300	300	300	300	540	4,667	2,526	1,102	450	450
40%	373	300	300	300	300	300	540	4,570	2,526	1,102	450	450
50%	373	300	300	300	300	300	493	4,189	2,120	1,102	450	450
60%	373	300	300	300	300	300	493	4,189	2,120	1,102	450	450
70%	373	300	300	300	300	300	460	2,924	783	450	450	450
80%	373	300	300	300	300	300	460	2,924	783	450	450	450
90%	373	300	300	300	300	300	460	1,641	783	450	450	450
Long Term												
Full Simulation Period[a]	368	360	545	671	634	611	584	3,779	2,108	923	450	450
Water Year Types[b]												
Wet (32%)	373	489	1,072	1,440	1,056	1,209	721	4,636	3,371	1,289	450	450
Above Normal (15%)	373	300	300	300	689	436	469	4,462	2,488	1,048	450	450
Below Normal (17%)	346	300	300	358	517	319	507	3,774	1,672	869	450	450
Dry (22%)	373	300	300	300	300	300	529	3,216	1,251	667	450	450
Critical (15%)	373	300	300	300	300	300	575	2,092	783	450	450	450

Alternative 4A (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	373	300	300	1,241	2,172	606	600	4,709	4,626	1,102	450	450
20%	373	300	300	300	300	300	588	4,709	2,526	1,102	450	450
30%	373	300	300	300	300	300	540	4,570	2,526	1,102	450	450
40%	373	300	300	300	300	300	540	4,570	2,526	1,102	450	450
50%	373	300	300	300	300	300	493	4,189	2,120	1,102	450	450
60%	373	300	300	300	300	300	493	4,189	2,120	1,102	450	450
70%	373	300	300	300	300	300	460	2,924	783	450	450	450
80%	373	300	300	300	300	300	460	2,924	783	450	450	450
90%	373	300	300	300	300	300	427	1,498	783	450	450	450
Long Term												
Full Simulation Period[a]	355	344	629	722	742	671	599	3,753	2,226	890	445	439
Water Year Types[b]												
Wet (32%)	373	485	1,338	1,594	1,304	1,389	765	4,620	3,613	1,161	450	450
Above Normal (15%)	312	275	300	381	843	475	467	4,450	2,663	1,048	450	450
Below Normal (17%)	346	300	300	300	559	302	508	3,763	1,767	916	450	450
Dry (22%)	352	283	300	300	300	300	529	3,216	1,251	667	450	450
Critical (15%)	373	250	300	300	300	300	580	1,973	783	450	413	374

Alternative 4A (ELT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	0	139	1,003	**-474**	0	0	0	0	0	0
20%	0	0	0	0	0	0	48	0	0	0	0	0
30%	0	0	0	0	0	0	0	**-97**	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	**-33**	**-143**	0	0	0	0
Long Term												
Full Simulation Period[a]	**-14**	**-16**	84	51	108	60	14	**-26**	119	**-33**	**-5**	**-11**
Water Year Types[b]												
Wet (32%)	0	**-3**	266	154	248	181	44	**-16**	242	**-128**	0	0
Above Normal (15%)	**-61**	**-25**	0	81	153	39	**-3**	**-12**	175	0	0	0
Below Normal (17%)	0	0	0	**-58**	43	**-16**	1	**-12**	96	47	0	0
Dry (22%)	**-21**	**-17**	0	0	0	0	0	0	0	0	0	0
Critical (15%)	0	**-50**	0	0	0	0	5	**-119**	0	0	**-37**	**-76**

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-53-4. Trinity River below Lewiston Reservoir, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	373	300	300	1,102	1,169	1,080	600	4,709	4,626	1,102	450	450
20%	373	300	300	300	300	300	540	4,709	2,526	1,102	450	450
30%	373	300	300	300	300	300	540	4,667	2,526	1,102	450	450
40%	373	300	300	300	300	300	540	4,570	2,526	1,102	450	450
50%	373	300	300	300	300	300	493	4,189	2,120	1,102	450	450
60%	373	300	300	300	300	300	493	4,189	2,120	1,102	450	450
70%	373	300	300	300	300	300	460	2,924	783	450	450	450
80%	373	300	300	300	300	300	460	2,924	783	450	450	450
90%	373	300	300	300	300	300	460	1,641	783	450	450	450
Long Term												
Full Simulation Period[a]	368	360	545	671	634	611	584	3,779	2,108	923	450	450
Water Year Types[b]												
Wet (32%)	373	489	1,072	1,440	1,056	1,209	721	4,636	3,371	1,289	450	450
Above Normal (15%)	373	300	300	300	689	436	469	4,462	2,488	1,048	450	450
Below Normal (17%)	346	300	300	358	517	319	507	3,774	1,672	869	450	450
Dry (22%)	373	300	300	300	300	300	529	3,216	1,251	667	450	450
Critical (15%)	373	300	300	300	300	300	575	2,092	783	450	450	450

Alternative 5A (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	373	300	300	839	2,099	570	600	4,709	4,626	1,102	450	450
20%	373	300	300	300	300	300	588	4,709	2,526	1,102	450	450
30%	373	300	300	300	300	300	540	4,570	2,526	1,102	450	450
40%	373	300	300	300	300	300	540	4,570	2,526	1,102	450	450
50%	373	300	300	300	300	300	493	4,189	2,120	1,102	450	450
60%	373	300	300	300	300	300	493	4,189	2,120	1,102	450	450
70%	373	300	300	300	300	300	460	2,924	783	450	450	450
80%	373	300	300	300	300	300	460	2,924	783	450	450	450
90%	373	300	300	300	300	300	427	1,498	783	450	450	450
Long Term												
Full Simulation Period[a]	364	340	612	700	724	659	598	3,753	2,226	890	445	443
Water Year Types[b]												
Wet (32%)	373	460	1,285	1,563	1,246	1,350	720	4,620	3,613	1,161	450	450
Above Normal (15%)	372	275	300	300	843	475	561	4,450	2,663	1,048	450	450
Below Normal (17%)	346	300	300	300	559	300	508	3,763	1,767	916	450	450
Dry (22%)	352	283	300	300	300	300	529	3,216	1,251	667	450	450
Critical (15%)	373	275	300	300	300	300	580	1,973	783	450	413	405

Alternative 5A (ELT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	0	**-263**	931	**-510**	0	0	0	0	0	0
20%	0	0	0	0	0	0	48	0	0	0	0	0
30%	0	0	0	0	0	0	0	**-97**	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	**-33**	**-143**	0	0	0	0
Long Term												
Full Simulation Period[a]	**-5**	**-20**	68	29	90	47	14	**-26**	119	**-33**	**-5**	**-7**
Water Year Types[b]												
Wet (32%)	0	**-28**	214	123	190	142	**-1**	**-16**	242	**-128**	0	0
Above Normal (15%)	**-1**	**-25**	0	0	153	39	91	**-12**	175	0	0	0
Below Normal (17%)	0	0	0	**-58**	43	**-19**	1	**-12**	96	47	0	0
Dry (22%)	**-21**	**-17**	0	0	0	0	0	0	0	0	0	0
Critical (15%)	**0**	**-25**	0	0	0	0	5	**-119**	0	0	**-38**	**-45**

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-53-5. Trinity River below Lewiston Reservoir, Monthly Flow

No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	373	300	300	806	1,590	328	600	4,709	4,626	1,102	450	450
20%	373	300	300	300	300	300	600	4,709	2,526	1,102	450	450
30%	373	300	300	300	300	300	540	4,570	2,526	1,102	450	450
40%	373	300	300	300	300	300	540	4,570	2,526	1,102	450	450
50%	373	300	300	300	300	300	493	4,189	2,120	1,102	450	450
60%	373	300	300	300	300	300	493	4,189	2,120	1,102	450	450
70%	373	300	300	300	300	300	460	2,924	783	450	450	450
80%	373	300	300	300	300	300	460	2,924	783	450	450	450
90%	373	300	300	300	300	300	427	1,498	783	450	450	450
Long Term												
Full Simulation Period[a]	355	352	612	707	693	654	606	3,753	2,226	890	445	436
Water Year Types[b]												
Wet (32%)	373	510	1,285	1,584	1,181	1,333	743	4,620	3,613	1,161	450	450
Above Normal (15%)	341	275	300	300	774	475	561	4,450	2,663	1,048	450	450
Below Normal (17%)	346	300	300	300	559	302	508	3,763	1,767	916	450	450
Dry (22%)	352	283	300	300	300	300	529	3,216	1,251	667	450	450
Critical (15%)	342	250	300	300	300	300	580	1,973	783	450	413	357

Alternative 2D (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	373	300	300	911	2,099	300	600	4,709	4,626	1,102	450	450
20%	373	300	300	300	300	300	588	4,709	2,526	1,102	450	450
30%	373	300	300	300	300	300	540	4,570	2,526	1,102	450	450
40%	373	300	300	300	300	300	540	4,570	2,526	1,102	450	450
50%	373	300	300	300	300	300	493	4,189	2,120	1,102	450	450
60%	373	300	300	300	300	300	493	4,189	2,120	1,102	450	450
70%	373	300	300	300	300	300	460	2,924	783	450	450	450
80%	373	300	300	300	300	300	460	2,924	783	450	450	450
90%	373	300	300	300	300	300	427	1,498	783	450	450	450
Long Term												
Full Simulation Period[a]	355	336	642	696	725	665	598	3,753	2,226	890	445	439
Water Year Types[b]												
Wet (32%)	373	459	1,380	1,542	1,252	1,369	719	4,620	3,613	1,161	450	450
Above Normal (15%)	312	275	300	315	843	475	561	4,450	2,663	1,048	450	450
Below Normal (17%)	346	300	300	300	559	300	508	3,763	1,767	916	450	450
Dry (22%)	352	283	300	300	300	300	529	3,216	1,251	667	450	450
Critical (15%)	373	250	300	300	300	300	580	1,973	783	450	413	374

Alternative 2D (ELT) minus No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	0	105	509	-28	0	0	0	0	0	0
20%	0	0	0	0	0	0	-12	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	0	-16	30	-11	32	11	-8	0	0	0	0	3
Water Year Types[b]												
Wet (32%)	0	-51	95	-42	71	36	-24	0	0	0	0	0
Above Normal (15%)	-29	0	0	15	68	0	0	0	0	0	0	0
Below Normal (17%)	0	0	0	0	0	-2	0	0	0	0	0	0
Dry (22%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (15%)	31	0	0	0	0	0	0	0	0	0	0	18

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-53-6. Trinity River below Lewiston Reservoir, Monthly Flow

No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	373	300	300	806	1,590	328	600	4,709	4,626	1,102	450	450
20%	373	300	300	300	300	300	600	4,709	2,526	1,102	450	450
30%	373	300	300	300	300	300	540	4,570	2,526	1,102	450	450
40%	373	300	300	300	300	300	540	4,570	2,526	1,102	450	450
50%	373	300	300	300	300	300	493	4,189	2,120	1,102	450	450
60%	373	300	300	300	300	300	493	4,189	2,120	1,102	450	450
70%	373	300	300	300	300	300	460	2,924	783	450	450	450
80%	373	300	300	300	300	300	460	2,924	783	450	450	450
90%	373	300	300	300	300	300	427	1,498	783	450	450	450
Long Term												
Full Simulation Period[a]	355	352	612	707	693	654	606	3,753	2,226	890	445	436
Water Year Types[b]												
Wet (32%)	373	510	1,285	1,584	1,181	1,333	743	4,620	3,613	1,161	450	450
Above Normal (15%)	341	275	300	300	774	475	561	4,450	2,663	1,048	450	450
Below Normal (17%)	346	300	300	300	559	302	508	3,763	1,767	916	450	450
Dry (22%)	352	283	300	300	300	300	529	3,216	1,251	667	450	450
Critical (15%)	342	250	300	300	300	300	580	1,973	783	450	413	357

Alternative 4A (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	373	300	300	1,241	2,172	606	600	4,709	4,626	1,102	450	450
20%	373	300	300	300	300	300	588	4,709	2,526	1,102	450	450
30%	373	300	300	300	300	300	540	4,570	2,526	1,102	450	450
40%	373	300	300	300	300	300	540	4,570	2,526	1,102	450	450
50%	373	300	300	300	300	300	493	4,189	2,120	1,102	450	450
60%	373	300	300	300	300	300	493	4,189	2,120	1,102	450	450
70%	373	300	300	300	300	300	460	2,924	783	450	450	450
80%	373	300	300	300	300	300	460	2,924	783	450	450	450
90%	373	300	300	300	300	300	427	1,498	783	450	450	450
Long Term												
Full Simulation Period[a]	355	344	629	722	742	671	599	3,753	2,226	890	445	439
Water Year Types[b]												
Wet (32%)	373	485	1,338	1,594	1,304	1,389	765	4,620	3,613	1,161	450	450
Above Normal (15%)	312	275	300	381	843	475	467	4,450	2,663	1,048	450	450
Below Normal (17%)	346	300	300	300	559	302	508	3,763	1,767	916	450	450
Dry (22%)	352	283	300	300	300	300	529	3,216	1,251	667	450	450
Critical (15%)	373	250	300	300	300	300	580	1,973	783	450	413	374

Alternative 4A (ELT) minus No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	0	435	582	278	0	0	0	0	0	0
20%	0	0	0	0	0	0	-12	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	0	-8	17	15	49	18	-7	0	0	0	0	3
Water Year Types[b]												
Wet (32%)	0	-25	53	10	123	56	22	0	0	0	0	0
Above Normal (15%)	-29	0	0	81	68	0	-95	0	0	0	0	0
Below Normal (17%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry (22%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (15%)	31	0	0	0	0	0	0	0	0	0	0	18

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-53-7. Trinity River below Lewiston Reservoir, Monthly Flow

No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	373	300	300	806	1,590	328	600	4,709	4,626	1,102	450	450
20%	373	300	300	300	300	300	600	4,709	2,526	1,102	450	450
30%	373	300	300	300	300	300	540	4,570	2,526	1,102	450	450
40%	373	300	300	300	300	300	540	4,570	2,526	1,102	450	450
50%	373	300	300	300	300	300	493	4,189	2,120	1,102	450	450
60%	373	300	300	300	300	300	493	4,189	2,120	1,102	450	450
70%	373	300	300	300	300	300	460	2,924	783	450	450	450
80%	373	300	300	300	300	300	460	2,924	783	450	450	450
90%	373	300	300	300	300	300	427	1,498	783	450	450	450
Long Term												
Full Simulation Period[a]	355	352	612	707	693	654	606	3,753	2,226	890	445	436
Water Year Types[b]												
Wet (32%)	373	510	1,285	1,584	1,181	1,333	743	4,620	3,613	1,161	450	450
Above Normal (15%)	341	275	300	300	774	475	561	4,450	2,663	1,048	450	450
Below Normal (17%)	346	300	300	300	559	302	508	3,763	1,767	916	450	450
Dry (22%)	352	283	300	300	300	300	529	3,216	1,251	667	450	450
Critical (15%)	342	250	300	300	300	300	580	1,973	783	450	413	357

Alternative 5A (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	373	300	300	839	2,099	570	600	4,709	4,626	1,102	450	450
20%	373	300	300	300	300	300	588	4,709	2,526	1,102	450	450
30%	373	300	300	300	300	300	540	4,570	2,526	1,102	450	450
40%	373	300	300	300	300	300	540	4,570	2,526	1,102	450	450
50%	373	300	300	300	300	300	493	4,189	2,120	1,102	450	450
60%	373	300	300	300	300	300	493	4,189	2,120	1,102	450	450
70%	373	300	300	300	300	300	460	2,924	783	450	450	450
80%	373	300	300	300	300	300	460	2,924	783	450	450	450
90%	373	300	300	300	300	300	427	1,498	783	450	450	450
Long Term												
Full Simulation Period[a]	364	340	612	700	724	659	598	3,753	2,226	890	445	443
Water Year Types[b]												
Wet (32%)	373	460	1,285	1,563	1,246	1,350	720	4,620	3,613	1,161	450	450
Above Normal (15%)	372	275	300	300	843	475	561	4,450	2,663	1,048	450	450
Below Normal (17%)	346	300	300	300	559	300	508	3,763	1,767	916	450	450
Dry (22%)	352	283	300	300	300	300	529	3,216	1,251	667	450	450
Critical (15%)	373	275	300	300	300	300	580	1,973	783	450	413	405

Alternative 5A (ELT) minus No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	0	33	509	242	0	0	0	0	0	0
20%	0	0	0	0	0	0	-12	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	9	-12	0	-7	31	5	-7	0	0	0	0	7
Water Year Types[b]												
Wet (32%)	0	-49	1	-21	65	17	-23	0	0	0	0	0
Above Normal (15%)	31	0	0	0	68	0	-1	0	0	0	0	0
Below Normal (17%)	0	0	0	0	0	-2	0	0	0	0	0	0
Dry (22%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (15%)	31	25	0	0	0	0	0	0	0	0	0	48

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

C.54. Sacramento River Flow downstream of Keswick Reservoir

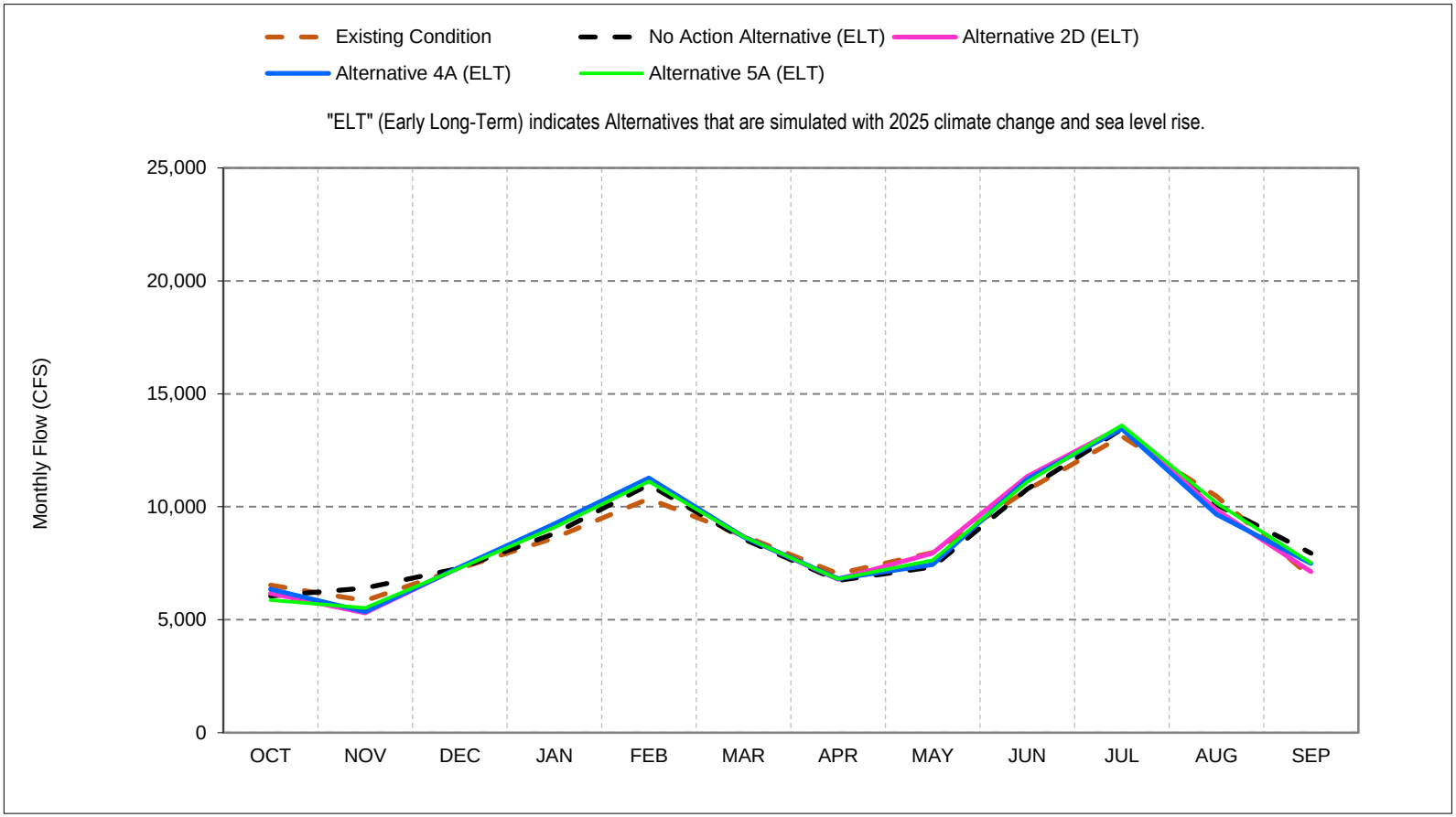
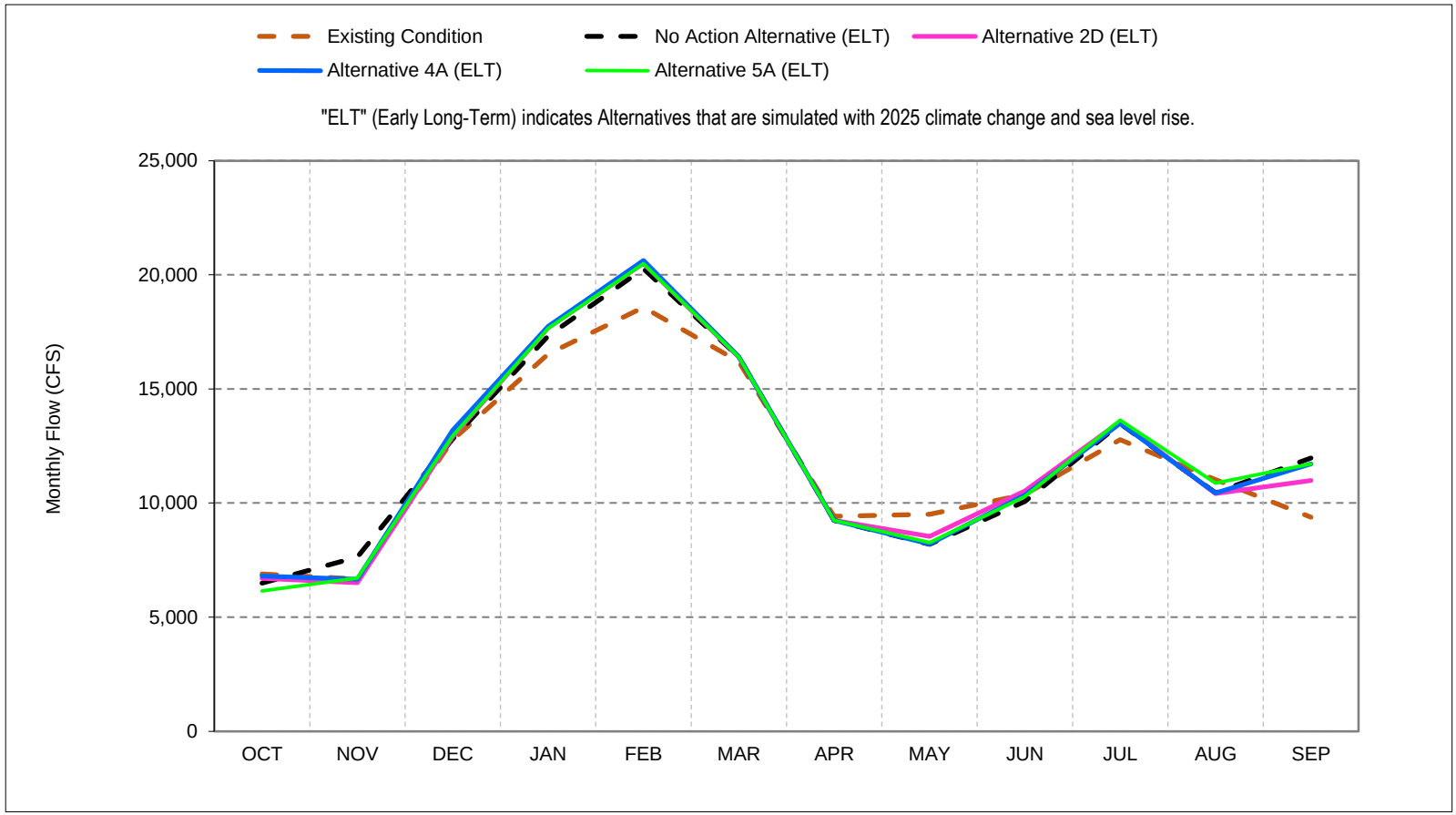
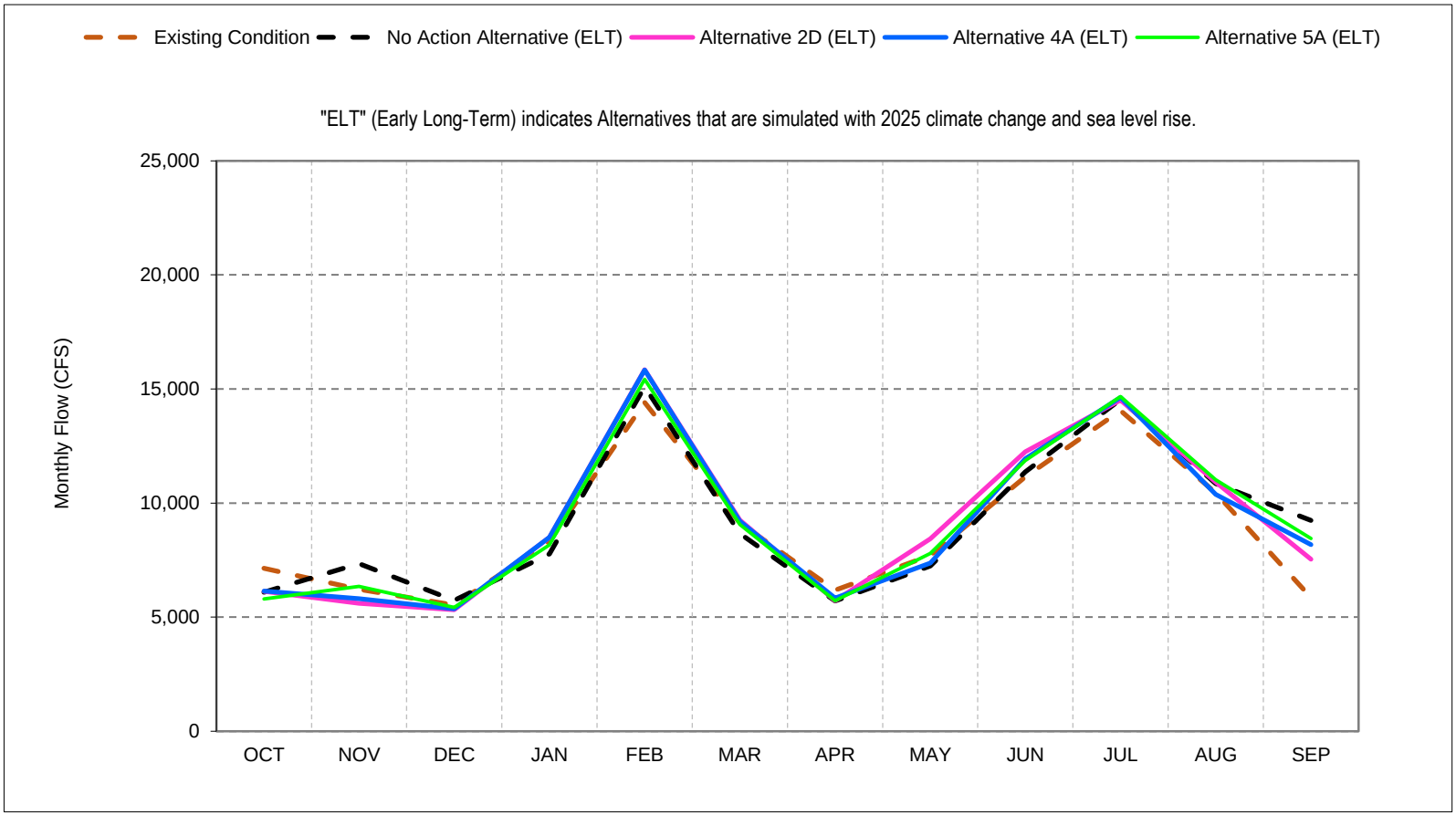


Figure C-54-1. Sacramento River d/s of Keswick Reservoir, Long-Term Average Flow



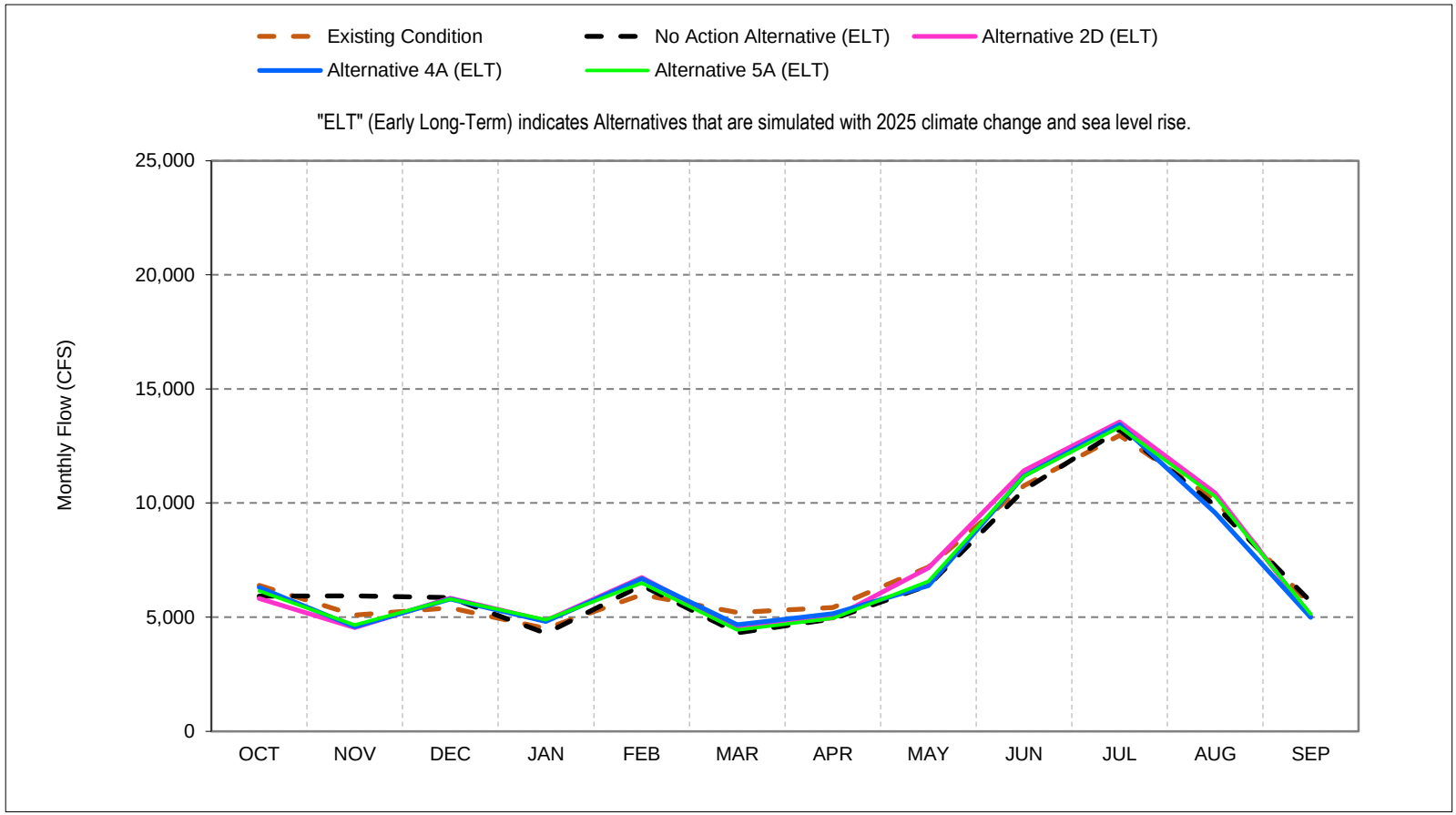
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-54-2. Sacramento River d/s of Keswick Reservoir, Wet Year* Average Flow



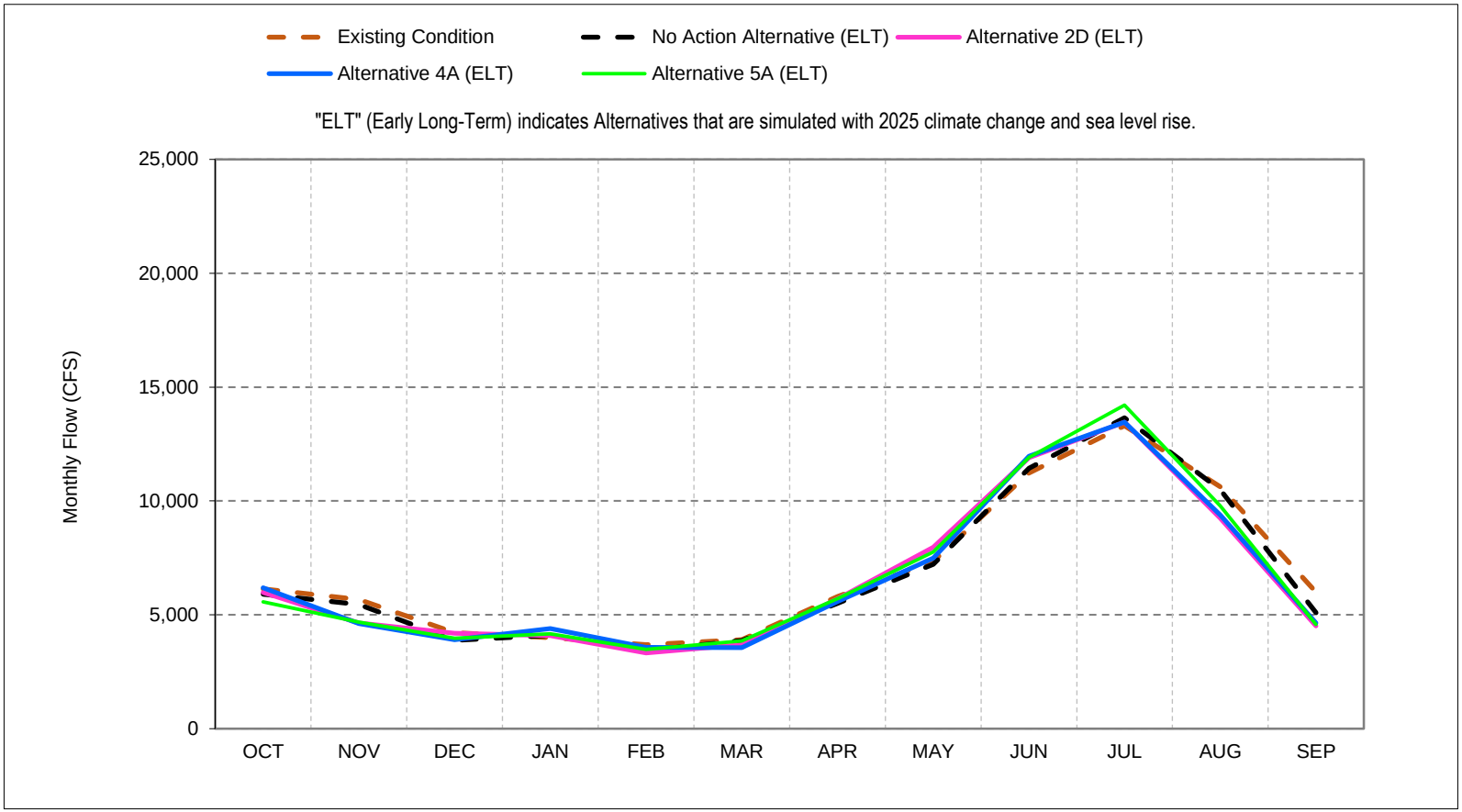
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-54-3. Sacramento River d/s of Keswick Reservoir, Above Normal Year* Average Flow



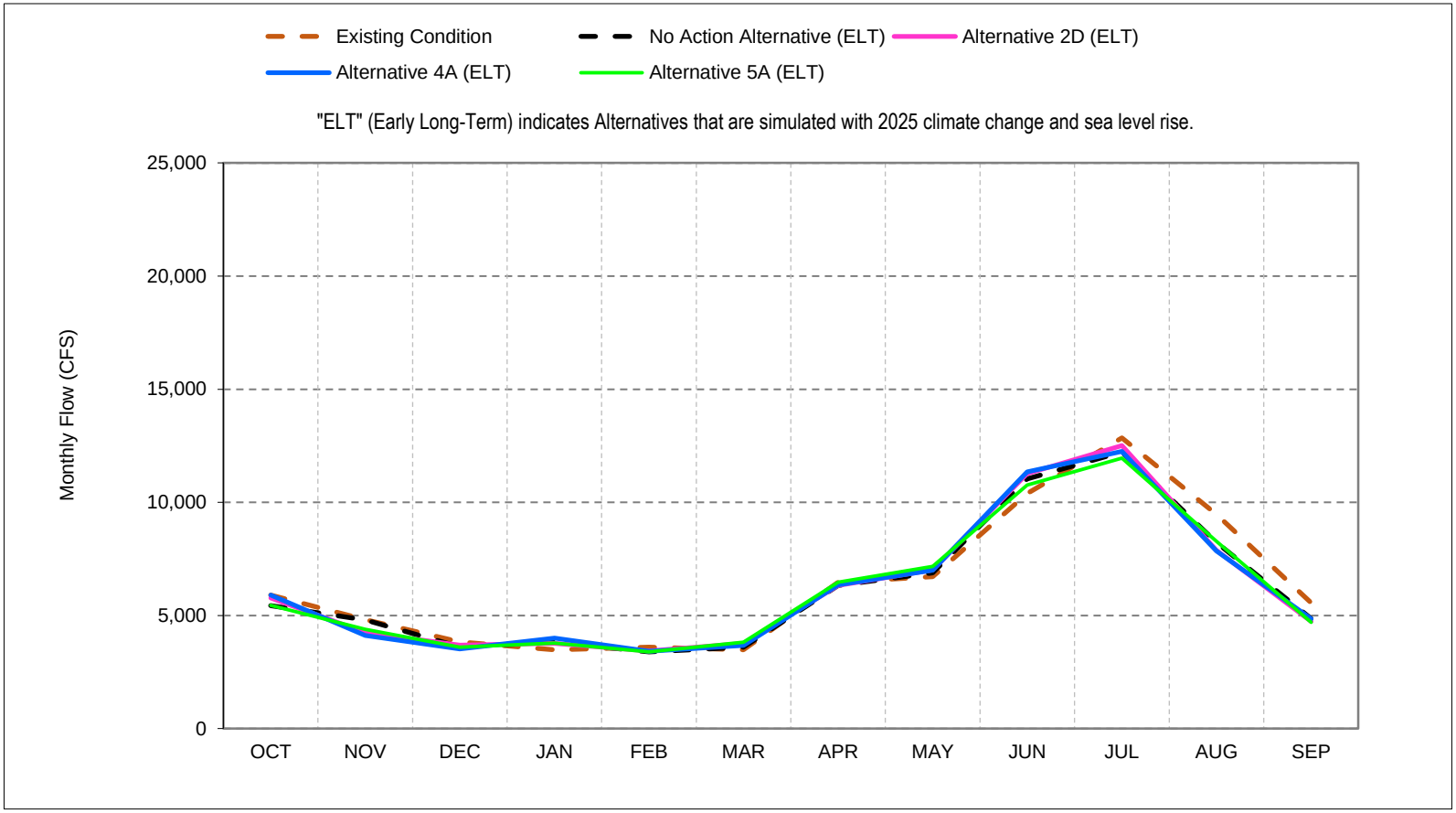
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-54-4. Sacramento River d/s of Keswick Reservoir, Below Normal Year* Average Flow



*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-54-5. Sacramento River d/s of Keswick Reservoir, Dry Year* Average Flow



*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-54-6. Sacramento River d/s of Keswick Reservoir, Critical Year* Average Flow

Table C-54-1. Sacramento River d/s of Keswick Reservoir, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,030	8,982	16,051	20,739	27,408	18,579	11,598	10,914	12,553	15,000	12,504	11,338
20%	8,603	7,059	10,673	12,895	18,724	12,828	8,284	9,139	11,890	15,000	11,520	9,366
30%	7,428	5,589	6,361	7,627	9,363	8,789	7,178	9,000	11,423	14,362	11,129	7,140
40%	6,433	5,290	4,541	4,500	5,748	4,500	6,443	8,151	11,013	13,601	10,718	6,398
50%	6,101	4,915	4,260	4,355	4,500	4,500	5,881	7,655	10,382	13,031	10,501	5,982
60%	5,811	4,693	4,000	3,805	3,878	3,578	5,595	7,171	10,016	12,617	10,110	5,536
70%	5,542	4,398	3,946	3,439	3,250	3,250	4,674	6,536	9,690	12,114	9,688	5,215
80%	5,071	4,243	3,466	3,250	3,250	3,250	4,500	6,116	9,405	11,744	9,222	5,002
90%	4,569	3,634	3,250	3,250	3,250	3,250	3,390	5,453	8,843	10,948	8,638	4,586
Long Term												
Full Simulation Period[a]	6,530	5,845	7,267	8,614	10,355	8,728	7,038	7,967	10,742	13,123	10,476	6,899
Water Year Types[b]												
Wet (32%)	6,886	6,672	12,766	16,526	18,577	16,200	9,418	9,508	10,375	12,779	11,029	9,385
Above Normal (15%)	7,145	6,224	5,531	8,318	14,409	9,131	6,182	7,709	11,147	14,056	10,449	5,862
Below Normal (17%)	6,396	5,088	5,413	4,502	5,981	5,200	5,426	7,193	10,758	12,965	10,139	5,492
Dry (22%)	6,128	5,669	4,215	3,996	3,684	3,903	5,803	7,349	11,224	13,302	10,627	5,985
Critical (15%)	5,902	4,822	3,828	3,490	3,599	3,487	6,472	6,715	10,392	12,849	9,473	5,563

No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	8,225	10,201	16,979	19,967	29,638	18,389	10,151	9,645	13,646	15,000	12,205	13,428
20%	7,293	8,663	10,536	11,701	21,412	12,188	7,643	8,665	12,716	15,000	11,485	11,677
30%	6,771	7,411	5,268	8,704	11,786	7,730	6,810	8,068	11,382	14,971	10,886	10,242
40%	6,506	6,182	4,298	4,500	4,717	4,500	5,908	7,658	10,896	14,628	10,349	8,532
50%	5,953	5,324	4,000	4,482	4,500	4,500	5,492	7,125	10,486	14,013	10,071	6,844
60%	5,716	4,580	3,837	3,947	3,565	3,753	5,035	6,510	10,128	13,327	9,688	5,745
70%	5,511	4,288	3,573	3,251	3,250	3,250	4,500	6,252	9,836	12,793	9,337	5,206
80%	4,569	4,000	3,250	3,250	3,250	3,250	4,500	5,848	8,916	11,927	8,856	4,506
90%	4,002	3,483	3,250	3,250	3,250	3,250	3,702	5,164	8,431	10,773	8,262	4,058
Long Term												
Full Simulation Period[a]	6,051	6,407	7,279	8,821	10,976	8,577	6,740	7,340	10,787	13,441	10,097	7,949
Water Year Types[b]												
Wet (32%)	6,491	7,633	12,806	17,326	20,267	16,399	9,242	8,192	10,066	13,478	10,448	11,973
Above Normal (15%)	6,098	7,351	5,733	7,772	15,102	8,665	5,712	7,250	11,360	14,541	10,859	9,248
Below Normal (17%)	5,924	5,927	5,854	4,288	6,389	4,306	4,925	6,393	10,579	13,202	9,885	5,676
Dry (22%)	5,896	5,450	3,879	4,096	3,427	3,859	5,496	7,212	11,438	13,650	10,493	5,092
Critical (15%)	5,433	4,802	3,614	3,815	3,394	3,606	6,327	6,880	11,039	12,228	8,226	4,866

No Action Alternative (ELT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-805	1,219	928	-772	2,230	-189	-1,448	-1,269	1,093	0	-299	2,089
20%	-1,310	1,604	-137	-1,194	2,689	-641	-641	-474	826	0	-35	2,311
30%	-657	1,822	-1,093	1,076	2,424	-1,058	-368	-933	-41	608	-243	3,102
40%	73	892	-243	0	-1,032	0	-535	-493	-118	1,027	-368	2,134
50%	-147	409	-260	127	0	0	-389	-530	105	982	-429	861
60%	-95	-113	-163	142	-314	175	-561	-661	112	710	-422	209
70%	-31	-110	-373	-187	0	0	-174	-284	147	679	-351	-9
80%	-502	-243	-215	0	0	0	0	-268	-490	184	-366	-496
90%	-567	-151	0	0	0	0	312	-288	-412	-175	-375	-528
Long Term												
Full Simulation Period[a]	-479	562	13	207	620	-150	-299	-627	44	318	-380	1,049
Water Year Types[b]												
Wet (32%)	-394	961	41	800	1,690	199	-176	-1,316	-309	699	-581	2,588
Above Normal (15%)	-1,047	1,127	202	-546	693	-465	-470	-459	213	485	410	3,386
Below Normal (17%)	-473	840	441	-214	407	-894	-501	-800	-179	237	-255	183
Dry (22%)	-232	-219	-335	101	-257	-45	-307	-137	215	348	-135	-893
Critical (15%)	-469	-21	-214	325	-205	118	-145	165	647	-622	-1,247	-696

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-54-2. Sacramento River d/s of Keswick Reservoir, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,030	8,982	16,051	20,739	27,408	18,579	11,598	10,914	12,553	15,000	12,504	11,338
20%	8,603	7,059	10,673	12,895	18,724	12,828	8,284	9,139	11,890	15,000	11,520	9,366
30%	7,428	5,589	6,361	7,627	9,363	8,789	7,178	9,000	11,423	14,362	11,129	7,140
40%	6,433	5,290	4,541	4,500	5,748	4,500	6,443	8,151	11,013	13,601	10,718	6,398
50%	6,101	4,915	4,260	4,355	4,500	4,500	5,881	7,655	10,382	13,031	10,501	5,982
60%	5,811	4,693	4,000	3,805	3,878	3,578	5,595	7,171	10,016	12,617	10,110	5,536
70%	5,542	4,398	3,946	3,439	3,250	3,250	4,674	6,536	9,690	12,114	9,688	5,215
80%	5,071	4,243	3,466	3,250	3,250	3,250	4,500	6,116	9,405	11,744	9,222	5,002
90%	4,569	3,634	3,250	3,250	3,250	3,250	3,390	5,453	8,843	10,948	8,638	4,586
Long Term												
Full Simulation Period[a]	6,530	5,845	7,267	8,614	10,355	8,728	7,038	7,967	10,742	13,123	10,476	6,899
Water Year Types[b]												
Wet (32%)	6,886	6,672	12,766	16,526	18,577	16,200	9,418	9,508	10,375	12,779	11,029	9,385
Above Normal (15%)	7,145	6,224	5,531	8,318	14,409	9,131	6,182	7,709	11,147	14,056	10,449	5,862
Below Normal (17%)	6,396	5,088	5,413	4,502	5,981	5,200	5,426	7,193	10,758	12,965	10,139	5,492
Dry (22%)	6,128	5,669	4,215	3,996	3,684	3,903	5,803	7,349	11,224	13,302	10,627	5,985
Critical (15%)	5,902	4,822	3,828	3,490	3,599	3,487	6,472	6,715	10,392	12,849	9,473	5,563

Alternative 2D (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	7,941	7,029	16,195	19,610	29,827	18,408	10,172	11,509	14,818	15,000	11,986	11,770
20%	7,497	5,914	10,091	13,847	21,412	12,304	7,989	9,624	13,544	15,000	11,166	10,551
30%	7,041	5,291	5,578	8,978	12,384	8,458	6,932	8,743	12,584	15,000	10,669	9,294
40%	6,636	4,668	4,326	4,500	5,039	4,500	5,903	8,284	11,426	14,852	10,316	7,013
50%	6,196	4,478	4,000	4,482	4,500	4,500	5,442	7,693	11,080	14,377	9,910	5,717
60%	5,826	4,307	4,000	3,803	3,538	3,841	5,043	7,101	10,634	13,490	9,578	5,242
70%	5,547	4,000	3,621	3,251	3,250	3,250	4,500	6,458	10,064	12,583	9,225	4,812
80%	4,858	4,000	3,251	3,250	3,250	3,250	4,500	5,982	9,492	12,101	8,408	4,261
90%	4,052	3,483	3,250	3,250	3,250	3,250	3,702	5,249	8,548	10,992	7,814	3,953
Long Term												
Full Simulation Period[a]	6,169	5,299	7,322	9,128	11,201	8,687	6,792	7,940	11,343	13,527	9,865	7,133
Water Year Types[b]												
Wet (32%)	6,694	6,505	12,899	17,685	20,498	16,398	9,242	8,533	10,531	13,563	10,411	10,992
Above Normal (15%)	6,127	5,609	5,327	8,502	15,847	9,250	5,722	8,439	12,252	14,512	10,924	7,544
Below Normal (17%)	5,820	4,535	5,826	4,850	6,737	4,542	4,968	7,163	11,418	13,561	10,436	5,040
Dry (22%)	5,972	4,641	4,182	4,084	3,324	3,679	5,692	7,970	11,901	13,464	9,245	4,509
Critical (15%)	5,774	4,252	3,689	3,772	3,431	3,762	6,334	7,019	11,267	12,516	7,887	4,737

Alternative 2D (ELT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,089	-1,954	144	-1,130	2,419	-171	-1,426	595	2,265	0	-518	432
20%	-1,106	-1,145	-582	952	2,689	-524	-295	485	1,654	0	-354	1,185
30%	-387	-298	-783	1,350	3,021	-330	-246	-258	1,160	638	-459	2,153
40%	203	-621	-215	0	-709	0	-540	133	412	1,251	-402	615
50%	96	-437	-260	127	0	0	-439	38	698	1,346	-590	-266
60%	14	-385	0	-2	-340	264	-553	-69	619	873	-532	-294
70%	6	-398	-325	-187	0	0	-174	-77	374	469	-463	-403
80%	-214	-243	-214	0	0	0	0	-134	87	357	-814	-741
90%	-517	-151	0	0	0	0	312	-204	-295	44	-824	-633
Long Term												
Full Simulation Period[a]	-361	-546	55	515	845	-41	-246	-27	600	404	-611	233
Water Year Types[b]												
Wet (32%)	-192	-167	134	1,159	1,921	199	-176	-975	156	784	-618	1,607
Above Normal (15%)	-1,018	-615	-204	185	1,438	120	-460	730	1,105	456	475	1,681
Below Normal (17%)	-576	-552	413	348	755	-658	-459	-29	659	596	296	-452
Dry (22%)	-156	-1,028	-33	89	-359	-224	-111	621	677	162	-1,382	-1,477
Critical (15%)	-128	-570	-140	281	-168	275	-137	303	875	-334	-1,585	-826

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-54-3. Sacramento River d/s of Keswick Reservoir, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,030	8,982	16,051	20,739	27,408	18,579	11,598	10,914	12,553	15,000	12,504	11,338
20%	8,603	7,059	10,673	12,895	18,724	12,828	8,284	9,139	11,890	15,000	11,520	9,366
30%	7,428	5,589	6,361	7,627	9,363	8,789	7,178	9,000	11,423	14,362	11,129	7,140
40%	6,433	5,290	4,541	4,500	5,748	4,500	6,443	8,151	11,013	13,601	10,718	6,398
50%	6,101	4,915	4,260	4,355	4,500	4,500	5,881	7,655	10,382	13,031	10,501	5,982
60%	5,811	4,693	4,000	3,805	3,878	3,578	5,595	7,171	10,016	12,617	10,110	5,536
70%	5,542	4,398	3,946	3,439	3,250	3,250	4,674	6,536	9,690	12,114	9,688	5,215
80%	5,071	4,243	3,466	3,250	3,250	3,250	4,500	6,116	9,405	11,744	9,222	5,002
90%	4,569	3,634	3,250	3,250	3,250	3,250	3,390	5,453	8,843	10,948	8,638	4,586
Long Term												
Full Simulation Period[a]	6,530	5,845	7,267	8,614	10,355	8,728	7,038	7,967	10,742	13,123	10,476	6,899
Water Year Types[b]												
Wet (32%)	6,886	6,672	12,766	16,526	18,577	16,200	9,418	9,508	10,375	12,779	11,029	9,385
Above Normal (15%)	7,145	6,224	5,531	8,318	14,409	9,131	6,182	7,709	11,147	14,056	10,449	5,862
Below Normal (17%)	6,396	5,088	5,413	4,502	5,981	5,200	5,426	7,193	10,758	12,965	10,139	5,492
Dry (22%)	6,128	5,669	4,215	3,996	3,684	3,903	5,803	7,349	11,224	13,302	10,627	5,985
Critical (15%)	5,902	4,822	3,828	3,490	3,599	3,487	6,472	6,715	10,392	12,849	9,473	5,563

Alternative 4A (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	8,316	7,460	17,023	19,984	29,890	18,468	10,209	9,933	14,793	15,000	11,478	12,568
20%	7,490	5,934	10,734	14,392	21,412	12,188	8,307	8,744	13,498	15,000	10,937	11,263
30%	6,960	5,344	4,766	9,053	12,793	8,359	6,839	8,115	12,426	15,000	10,408	9,496
40%	6,690	4,938	4,179	5,329	5,039	4,500	6,093	7,641	11,503	14,484	10,050	7,788
50%	6,482	4,479	4,000	4,500	4,500	4,500	5,457	7,255	10,873	13,972	9,755	5,893
60%	6,168	4,257	3,830	3,997	3,637	3,726	5,046	6,623	10,294	13,430	9,593	5,286
70%	5,672	4,000	3,493	3,325	3,250	3,250	4,500	6,364	10,004	12,935	9,140	4,909
80%	5,227	4,000	3,250	3,250	3,250	3,250	4,500	5,908	9,279	12,078	8,459	4,437
90%	4,366	3,421	3,250	3,250	3,250	3,250	3,702	5,221	8,451	10,826	7,815	3,960
Long Term												
Full Simulation Period[a]	6,353	5,360	7,327	9,238	11,283	8,669	6,818	7,436	11,228	13,458	9,671	7,489
Water Year Types[b]												
Wet (32%)	6,799	6,658	13,182	17,739	20,629	16,422	9,241	8,200	10,351	13,488	10,443	11,717
Above Normal (15%)	6,147	5,812	5,368	8,503	15,826	9,199	5,832	7,375	11,947	14,634	10,377	8,177
Below Normal (17%)	6,303	4,585	5,796	4,808	6,691	4,668	5,152	6,375	11,195	13,436	9,570	4,985
Dry (22%)	6,189	4,615	3,906	4,387	3,568	3,553	5,574	7,490	11,964	13,454	9,378	4,631
Critical (15%)	5,897	4,114	3,518	4,001	3,419	3,682	6,359	6,997	11,344	12,250	7,853	4,851

Alternative 4A (ELT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-714	-1,523	972	-755	2,482	-111	-1,389	-981	2,240	0	-1,026	1,230
20%	-1,113	-1,125	61	1,497	2,689	-641	23	-395	1,608	0	-583	1,897
30%	-468	-245	-1,595	1,426	3,430	-430	-339	-885	1,003	638	-721	2,356
40%	257	-352	-362	829	-709	0	-351	-510	490	883	-668	1,391
50%	381	-436	-260	145	0	0	-424	-399	491	941	-745	-89
60%	357	-436	-170	192	-241	148	-549	-547	278	813	-517	-250
70%	130	-398	-453	-114	0	0	-174	-172	314	821	-549	-306
80%	156	-243	-215	0	0	0	0	-207	-126	334	-763	-565
90%	-203	-213	0	0	0	0	312	-232	-392	-122	-823	-626
Long Term												
Full Simulation Period[a]	-177	-486	60	625	927	-59	-221	-531	486	335	-805	590
Water Year Types[b]												
Wet (32%)	-87	-15	416	1,213	2,052	222	-176	-1,308	-24	709	-586	2,332
Above Normal (15%)	-998	-412	-163	185	1,417	68	-350	-334	800	578	-72	2,314
Below Normal (17%)	-93	-503	383	306	710	-532	-274	-818	437	471	-570	-508
Dry (22%)	61	-1,054	-309	392	-116	-351	-228	141	740	152	-1,249	-1,354
Critical (15%)	-5	-708	-310	511	-180	195	-112	281	952	-600	-1,619	-712

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-54-4. Sacramento River d/s of Keswick Reservoir, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,030	8,982	16,051	20,739	27,408	18,579	11,598	10,914	12,553	15,000	12,504	11,338
20%	8,603	7,059	10,673	12,895	18,724	12,828	8,284	9,139	11,890	15,000	11,520	9,366
30%	7,428	5,589	6,361	7,627	9,363	8,789	7,178	9,000	11,423	14,362	11,129	7,140
40%	6,433	5,290	4,541	4,500	5,748	4,500	6,443	8,151	11,013	13,601	10,718	6,398
50%	6,101	4,915	4,260	4,355	4,500	4,500	5,881	7,655	10,382	13,031	10,501	5,982
60%	5,811	4,693	4,000	3,805	3,878	3,578	5,595	7,171	10,016	12,617	10,110	5,536
70%	5,542	4,398	3,946	3,439	3,250	3,250	4,674	6,536	9,690	12,114	9,688	5,215
80%	5,071	4,243	3,466	3,250	3,250	3,250	4,500	6,116	9,405	11,744	9,222	5,002
90%	4,569	3,634	3,250	3,250	3,250	3,250	3,390	5,453	8,843	10,948	8,638	4,586
Long Term												
Full Simulation Period[a]	6,530	5,845	7,267	8,614	10,355	8,728	7,038	7,967	10,742	13,123	10,476	6,899
Water Year Types[b]												
Wet (32%)	6,886	6,672	12,766	16,526	18,577	16,200	9,418	9,508	10,375	12,779	11,029	9,385
Above Normal (15%)	7,145	6,224	5,531	8,318	14,409	9,131	6,182	7,709	11,147	14,056	10,449	5,862
Below Normal (17%)	6,396	5,088	5,413	4,502	5,981	5,200	5,426	7,193	10,758	12,965	10,139	5,492
Dry (22%)	6,128	5,669	4,215	3,996	3,684	3,903	5,803	7,349	11,224	13,302	10,627	5,985
Critical (15%)	5,902	4,822	3,828	3,490	3,599	3,487	6,472	6,715	10,392	12,849	9,473	5,563

Alternative 5A (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	7,866	7,590	17,853	19,986	30,201	18,389	10,173	10,179	14,409	15,000	12,282	13,075
20%	6,813	6,126	9,053	12,410	21,412	12,188	7,732	9,325	13,263	15,000	11,637	11,251
30%	6,472	5,667	5,380	8,978	11,981	8,359	6,789	8,526	12,212	15,000	11,292	9,901
40%	6,069	5,123	4,371	4,686	5,039	4,500	6,232	7,699	11,283	15,000	10,759	7,415
50%	5,798	4,555	4,000	4,500	4,500	4,500	5,450	7,314	10,623	14,618	10,257	6,084
60%	5,599	4,448	3,958	3,947	3,577	4,007	5,038	6,811	10,111	13,844	9,792	5,257
70%	4,976	4,213	3,611	3,337	3,250	3,250	4,500	6,446	9,806	13,002	9,246	4,803
80%	4,382	4,000	3,263	3,250	3,250	3,250	4,500	5,982	9,331	11,811	8,621	4,251
90%	4,000	3,503	3,250	3,250	3,250	3,250	3,720	5,231	8,449	10,903	7,893	3,912
Long Term												
Full Simulation Period[a]	5,868	5,521	7,286	9,092	11,119	8,691	6,811	7,636	11,096	13,613	10,175	7,520
Water Year Types[b]												
Wet (32%)	6,147	6,716	12,947	17,649	20,485	16,398	9,241	8,270	10,284	13,637	10,869	11,721
Above Normal (15%)	5,805	6,345	5,429	8,170	15,419	9,065	5,724	7,790	11,867	14,672	11,017	8,451
Below Normal (17%)	6,153	4,652	5,786	4,891	6,488	4,444	4,945	6,570	11,174	13,320	10,286	5,135
Dry (22%)	5,566	4,671	3,969	4,157	3,476	3,856	5,706	7,759	11,916	14,205	9,783	4,567
Critical (15%)	5,445	4,393	3,601	3,778	3,391	3,822	6,470	7,165	10,763	11,957	8,286	4,700

Alternative 5A (ELT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-1,164**	**-1,392**	1,803	**-753**	2,793	**-189**	**-1,426**	**-735**	1,856	0	**-221**	1,737
20%	**-1,790**	**-933**	**-1,620**	**-485**	2,689	**-641**	**-552**	185	1,373	0	116	1,885
30%	**-956**	78	**-981**	1,350	2,618	**-430**	**-390**	**-474**	789	638	164	2,760
40%	**-364**	**-166**	**-170**	186	**-709**	0	**-212**	**-452**	270	1,399	41	1,018
50%	**-302**	**-360**	**-260**	145	0	0	**-431**	**-341**	242	1,587	**-244**	102
60%	**-212**	**-245**	**-42**	142	**-301**	429	**-557**	**-360**	95	1,227	**-319**	**-280**
70%	**-565**	**-185**	**-335**	**-101**	0	0	**-174**	**-90**	116	888	**-443**	**-412**
80%	**-689**	**-243**	**-203**	0	0	0	0	**-133**	**-74**	67	**-601**	**-751**
90%	**-569**	**-131**	**0**	0	0	0	331	**-221**	**-394**	**-45**	**-745**	**-673**
Long Term												
Full Simulation Period[a]	**-662**	**-325**	19	478	763	**-37**	**-227**	**-331**	354	490	**-302**	621
Water Year Types[b]												
Wet (32%)	**-738**	43	181	1,123	1,907	199	**-177**	**-1,238**	**-92**	858	**-160**	2,336
Above Normal (15%)	**-1,340**	122	**-102**	**-148**	1,009	**-65**	**-458**	81	720	616	568	2,588
Below Normal (17%)	**-243**	**-435**	373	389	507	**-756**	**-481**	**-623**	416	355	147	**-357**
Dry (22%)	**-563**	**-998**	**-245**	162	**-207**	**-47**	**-97**	411	692	903	**-844**	**-1,419**
Critical (15%)	**-457**	**-429**	**-227**	287	**-208**	335	**-1**	450	372	**-893**	**-1,186**	**-863**

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-54-5. Sacramento River d/s of Keswick Reservoir, Monthly Flow

No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	8,225	10,201	16,979	19,967	29,638	18,389	10,151	9,645	13,646	15,000	12,205	13,428
20%	7,293	8,663	10,536	11,701	21,412	12,188	7,643	8,665	12,716	15,000	11,485	11,677
30%	6,771	7,411	5,268	8,704	11,786	7,730	6,810	8,068	11,382	14,971	10,886	10,242
40%	6,506	6,182	4,298	4,500	4,717	4,500	5,908	7,658	10,896	14,628	10,349	8,532
50%	5,953	5,324	4,000	4,482	4,500	4,500	5,492	7,125	10,486	14,013	10,071	6,844
60%	5,716	4,580	3,837	3,947	3,565	3,753	5,035	6,510	10,128	13,327	9,688	5,745
70%	5,511	4,288	3,573	3,251	3,250	3,250	4,500	6,252	9,836	12,793	9,337	5,206
80%	4,569	4,000	3,250	3,250	3,250	3,250	4,500	5,848	8,916	11,927	8,856	4,506
90%	4,002	3,483	3,250	3,250	3,250	3,250	3,702	5,164	8,431	10,773	8,262	4,058
Long Term												
Full Simulation Period[a]	6,051	6,407	7,279	8,821	10,976	8,577	6,740	7,340	10,787	13,441	10,097	7,949
Water Year Types[b]												
Wet (32%)	6,491	7,633	12,806	17,326	20,267	16,399	9,242	8,192	10,066	13,478	10,448	11,973
Above Normal (15%)	6,098	7,351	5,733	7,772	15,102	8,665	5,712	7,250	11,360	14,541	10,859	9,248
Below Normal (17%)	5,924	5,927	5,854	4,288	6,389	4,306	4,925	6,393	10,579	13,202	9,885	5,676
Dry (22%)	5,896	5,450	3,879	4,096	3,427	3,859	5,496	7,212	11,438	13,650	10,493	5,092
Critical (15%)	5,433	4,802	3,614	3,815	3,394	3,606	6,327	6,880	11,039	12,228	8,226	4,866

Alternative 2D (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	7,941	7,029	16,195	19,610	29,827	18,408	10,172	11,509	14,818	15,000	11,986	11,770
20%	7,497	5,914	10,091	13,847	21,412	12,304	7,989	9,624	13,544	15,000	11,166	10,551
30%	7,041	5,291	5,578	8,978	12,384	8,458	6,932	8,743	12,584	15,000	10,669	9,294
40%	6,636	4,668	4,326	4,500	5,039	4,500	5,903	8,284	11,426	14,852	10,316	7,013
50%	6,196	4,478	4,000	4,482	4,500	4,500	5,442	7,693	11,080	14,377	9,910	5,717
60%	5,826	4,307	4,000	3,803	3,538	3,841	5,043	7,101	10,634	13,490	9,578	5,242
70%	5,547	4,000	3,621	3,251	3,250	3,250	4,500	6,458	10,064	12,583	9,225	4,812
80%	4,858	4,000	3,251	3,250	3,250	3,250	4,500	5,982	9,492	12,101	8,408	4,261
90%	4,052	3,483	3,250	3,250	3,250	3,250	3,702	5,249	8,548	10,992	7,814	3,953
Long Term												
Full Simulation Period[a]	6,169	5,299	7,322	9,128	11,201	8,687	6,792	7,940	11,343	13,527	9,865	7,133
Water Year Types[b]												
Wet (32%)	6,694	6,505	12,899	17,685	20,498	16,398	9,242	8,533	10,531	13,563	10,411	10,992
Above Normal (15%)	6,127	5,609	5,327	8,502	15,847	9,250	5,722	8,439	12,252	14,512	10,924	7,544
Below Normal (17%)	5,820	4,535	5,826	4,850	6,737	4,542	4,968	7,163	11,418	13,561	10,436	5,040
Dry (22%)	5,972	4,641	4,182	4,084	3,324	3,679	5,692	7,970	11,901	13,464	9,245	4,509
Critical (15%)	5,774	4,252	3,689	3,772	3,431	3,762	6,334	7,019	11,267	12,516	7,887	4,737

Alternative 2D (ELT) minus No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-284	-3,173	-784	-358	189	19	21	1,864	1,172	0	-219	-1,657
20%	203	-2,750	-445	2,146	0	117	346	959	828	0	-319	-1,126
30%	270	-2,120	310	274	597	728	122	675	1,202	29	-217	-949
40%	129	-1,514	29	0	322	0	-5	626	530	223	-34	-1,519
50%	243	-846	0	0	0	0	-50	567	594	364	-161	-1,127
60%	110	-273	163	-144	-27	88	8	591	507	163	-110	-503
70%	36	-288	49	0	0	0	0	207	227	-210	-112	-394
80%	288	0	1	0	0	0	0	134	577	173	-448	-245
90%	50	0	0	0	0	0	0	84	117	218	-448	-105
Long Term												
Full Simulation Period[a]	118	-1,108	43	308	225	109	53	600	556	85	-231	-816
Water Year Types[b]												
Wet (32%)	203	-1,128	93	359	231	0	0	341	465	85	-36	-980
Above Normal (15%)	29	-1,742	-406	731	745	585	9	1,188	891	-29	64	-1,704
Below Normal (17%)	-104	-1,392	-29	562	348	236	42	770	838	359	551	-636
Dry (22%)	77	-810	303	-12	-103	-180	196	758	462	-185	-1,247	-584
Critical (15%)	341	-550	75	-43	37	157	8	139	228	288	-339	-130

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-54-6. Sacramento River d/s of Keswick Reservoir, Monthly Flow

No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	8,225	10,201	16,979	19,967	29,638	18,389	10,151	9,645	13,646	15,000	12,205	13,428
20%	7,293	8,663	10,536	11,701	21,412	12,188	7,643	8,665	12,716	15,000	11,485	11,677
30%	6,771	7,411	5,268	8,704	11,786	7,730	6,810	8,068	11,382	14,971	10,886	10,242
40%	6,506	6,182	4,298	4,500	4,717	4,500	5,908	7,658	10,896	14,628	10,349	8,532
50%	5,953	5,324	4,000	4,482	4,500	4,500	5,492	7,125	10,486	14,013	10,071	6,844
60%	5,716	4,580	3,837	3,947	3,565	3,753	5,035	6,510	10,128	13,327	9,688	5,745
70%	5,511	4,288	3,573	3,251	3,250	3,250	4,500	6,252	9,836	12,793	9,337	5,206
80%	4,569	4,000	3,250	3,250	3,250	3,250	4,500	5,848	8,916	11,927	8,856	4,506
90%	4,002	3,483	3,250	3,250	3,250	3,250	3,702	5,164	8,431	10,773	8,262	4,058
Long Term												
Full Simulation Period[a]	6,051	6,407	7,279	8,821	10,976	8,577	6,740	7,340	10,787	13,441	10,097	7,949
Water Year Types[b]												
Wet (32%)	6,491	7,633	12,806	17,326	20,267	16,399	9,242	8,192	10,066	13,478	10,448	11,973
Above Normal (15%)	6,098	7,351	5,733	7,772	15,102	8,665	5,712	7,250	11,360	14,541	10,859	9,248
Below Normal (17%)	5,924	5,927	5,854	4,288	6,389	4,306	4,925	6,393	10,579	13,202	9,885	5,676
Dry (22%)	5,896	5,450	3,879	4,096	3,427	3,859	5,496	7,212	11,438	13,650	10,493	5,092
Critical (15%)	5,433	4,802	3,614	3,815	3,394	3,606	6,327	6,880	11,039	12,228	8,226	4,866

Alternative 4A (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	8,316	7,460	17,023	19,984	29,890	18,468	10,209	9,933	14,793	15,000	11,478	12,568
20%	7,490	5,934	10,734	14,392	21,412	12,188	8,307	8,744	13,498	15,000	10,937	11,263
30%	6,960	5,344	4,766	9,053	12,793	8,359	6,839	8,115	12,426	15,000	10,408	9,496
40%	6,690	4,938	4,179	5,329	5,039	4,500	6,093	7,641	11,503	14,484	10,050	7,788
50%	6,482	4,479	4,000	4,500	4,500	4,500	5,457	7,255	10,873	13,972	9,755	5,893
60%	6,168	4,257	3,830	3,997	3,637	3,726	5,046	6,623	10,294	13,430	9,593	5,286
70%	5,672	4,000	3,493	3,325	3,250	3,250	4,500	6,364	10,004	12,935	9,140	4,909
80%	5,227	4,000	3,250	3,250	3,250	3,250	4,500	5,908	9,279	12,078	8,459	4,437
90%	4,366	3,421	3,250	3,250	3,250	3,250	3,702	5,221	8,451	10,826	7,815	3,960
Long Term												
Full Simulation Period[a]	6,353	5,360	7,327	9,238	11,283	8,669	6,818	7,436	11,228	13,458	9,671	7,489
Water Year Types[b]												
Wet (32%)	6,799	6,658	13,182	17,739	20,629	16,422	9,241	8,200	10,351	13,488	10,443	11,717
Above Normal (15%)	6,147	5,812	5,368	8,503	15,826	9,199	5,832	7,375	11,947	14,634	10,377	8,177
Below Normal (17%)	6,303	4,585	5,796	4,808	6,691	4,668	5,152	6,375	11,195	13,436	9,570	4,985
Dry (22%)	6,189	4,615	3,906	4,387	3,568	3,553	5,574	7,490	11,964	13,454	9,378	4,631
Critical (15%)	5,897	4,114	3,518	4,001	3,419	3,682	6,359	6,997	11,344	12,250	7,853	4,851

Alternative 4A (ELT) minus No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	91	**-2,742**	44	17	252	79	58	288	1,147	0	**-727**	**-859**
20%	197	**-2,729**	198	2,691	**0**	**0**	664	79	782	0	**-548**	**-414**
30%	188	**-2,067**	**-502**	349	1,006	629	30	48	1,044	29	**-478**	**-746**
40%	184	**-1,244**	**-119**	829	322	0	185	**-17**	607	**-144**	**-299**	**-743**
50%	528	**-845**	0	18	0	0	**-35**	130	387	**-41**	**-316**	**-950**
60%	452	**-323**	**-7**	50	73	**-27**	12	114	166	103	**-95**	**-459**
70%	161	**-288**	**-79**	73	0	0	0	112	168	142	**-198**	**-297**
80%	658	0	**0**	0	0	0	0	60	363	150	**-397**	**-69**
90%	364	**-61**	0	0	0	0	0	57	20	53	**-447**	**-98**
Long Term												
Full Simulation Period[a]	302	**-1,047**	48	418	307	91	78	96	441	17	**-425**	**-459**
Water Year Types[b]												
Wet (32%)	307	**-975**	376	413	362	23	**-1**	9	285	10	**-5**	**-255**
Above Normal (15%)	49	**-1,538**	**-365**	731	724	534	120	125	587	93	**-483**	**-1,071**
Below Normal (17%)	379	**-1,342**	**-58**	520	303	362	226	**-18**	616	234	**-315**	**-691**
Dry (22%)	293	**-835**	27	291	141	**-306**	79	278	525	**-195**	**-1,114**	**-461**
Critical (15%)	464	**-688**	**-96**	186	25	77	33	117	305	22	**-373**	**-15**

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-54-7. Sacramento River d/s of Keswick Reservoir, Monthly Flow

No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	8,225	10,201	16,979	19,967	29,638	18,389	10,151	9,645	13,646	15,000	12,205	13,428
20%	7,293	8,663	10,536	11,701	21,412	12,188	7,643	8,665	12,716	15,000	11,485	11,677
30%	6,771	7,411	5,268	8,704	11,786	7,730	6,810	8,068	11,382	14,971	10,886	10,242
40%	6,506	6,182	4,298	4,500	4,717	4,500	5,908	7,658	10,896	14,628	10,349	8,532
50%	5,953	5,324	4,000	4,482	4,500	4,500	5,492	7,125	10,486	14,013	10,071	6,844
60%	5,716	4,580	3,837	3,947	3,565	3,753	5,035	6,510	10,128	13,327	9,688	5,745
70%	5,511	4,288	3,573	3,251	3,250	3,250	4,500	6,252	9,836	12,793	9,337	5,206
80%	4,569	4,000	3,250	3,250	3,250	3,250	4,500	5,848	8,916	11,927	8,856	4,506
90%	4,002	3,483	3,250	3,250	3,250	3,250	3,702	5,164	8,431	10,773	8,262	4,058
Long Term												
Full Simulation Period[a]	6,051	6,407	7,279	8,821	10,976	8,577	6,740	7,340	10,787	13,441	10,097	7,949
Water Year Types[b]												
Wet (32%)	6,491	7,633	12,806	17,326	20,267	16,399	9,242	8,192	10,066	13,478	10,448	11,973
Above Normal (15%)	6,098	7,351	5,733	7,772	15,102	8,665	5,712	7,250	11,360	14,541	10,859	9,248
Below Normal (17%)	5,924	5,927	5,854	4,288	6,389	4,306	4,925	6,393	10,579	13,202	9,885	5,676
Dry (22%)	5,896	5,450	3,879	4,096	3,427	3,859	5,496	7,212	11,438	13,650	10,493	5,092
Critical (15%)	5,433	4,802	3,614	3,815	3,394	3,606	6,327	6,880	11,039	12,228	8,226	4,866

Alternative 5A (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	7,866	7,590	17,853	19,986	30,201	18,389	10,173	10,179	14,409	15,000	12,282	13,075
20%	6,813	6,126	9,053	12,410	21,412	12,188	7,732	9,325	13,263	15,000	11,637	11,251
30%	6,472	5,667	5,380	8,978	11,981	8,359	6,789	8,526	12,212	15,000	11,292	9,901
40%	6,069	5,123	4,371	4,686	5,039	4,500	6,232	7,699	11,283	15,000	10,759	7,415
50%	5,798	4,555	4,000	4,500	4,500	4,500	5,450	7,314	10,623	14,618	10,257	6,084
60%	5,599	4,448	3,958	3,947	3,577	4,007	5,038	6,811	10,111	13,844	9,792	5,257
70%	4,976	4,213	3,611	3,337	3,250	3,250	4,500	6,446	9,806	13,002	9,246	4,803
80%	4,382	4,000	3,263	3,250	3,250	3,250	4,500	5,982	9,331	11,811	8,621	4,251
90%	4,000	3,503	3,250	3,250	3,250	3,250	3,720	5,231	8,449	10,903	7,893	3,912
Long Term												
Full Simulation Period[a]	5,868	5,521	7,286	9,092	11,119	8,691	6,811	7,636	11,096	13,613	10,175	7,520
Water Year Types[b]												
Wet (32%)	6,147	6,716	12,947	17,649	20,485	16,398	9,241	8,270	10,284	13,637	10,869	11,721
Above Normal (15%)	5,805	6,345	5,429	8,170	15,419	9,065	5,724	7,790	11,867	14,672	11,017	8,451
Below Normal (17%)	6,153	4,652	5,786	4,891	6,488	4,444	4,945	6,570	11,174	13,320	10,286	5,135
Dry (22%)	5,566	4,671	3,969	4,157	3,476	3,856	5,706	7,759	11,916	14,205	9,783	4,567
Critical (15%)	5,445	4,393	3,601	3,778	3,391	3,822	6,470	7,165	10,763	11,957	8,286	4,700

Alternative 5A (ELT) minus No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-358**	**-2,611**	874	19	563	0	22	533	763	0	77	**-352**
20%	**-481**	**-2,537**	**-1,482**	709	**0**	0	89	660	547	0	152	**-426**
30%	**-300**	**-1,744**	112	274	194	629	**-21**	459	831	29	406	**-342**
40%	**-438**	**-1,059**	73	186	322	0	324	41	388	372	410	**-1,117**
50%	**-155**	**-769**	0	18	0	0	**-43**	189	137	605	186	**-760**
60%	**-116**	**-132**	121	0	13	254	3	301	**-17**	517	103	**-488**
70%	**-535**	**-75**	38	86	0	0	0	194	**-30**	209	**-91**	**-403**
80%	**-187**	0	13	0	0	0	0	134	416	**-116**	**-235**	**-255**
90%	**-2**	20	0	0	0	0	18	67	18	129	**-370**	**-145**
Long Term												
Full Simulation Period[a]	**-184**	**-886**	6	271	143	113	72	296	309	172	78	**-429**
Water Year Types[b]												
Wet (32%)	**-344**	**-917**	140	323	218	**0**	**-2**	78	218	159	421	**-252**
Above Normal (15%)	**-293**	**-1,005**	**-303**	398	317	400	12	540	507	131	157	**-797**
Below Normal (17%)	229	**-1,275**	**-69**	603	100	138	20	177	595	118	401	**-541**
Dry (22%)	**-330**	**-779**	90	61	49	**-3**	210	548	477	555	**-709**	**-526**
Critical (15%)	12	**-408**	**-13**	**-37**	**-3**	217	144	285	**-275**	**-271**	61	**-167**

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

C.55. Sacramento River Flow at Bend Bridge

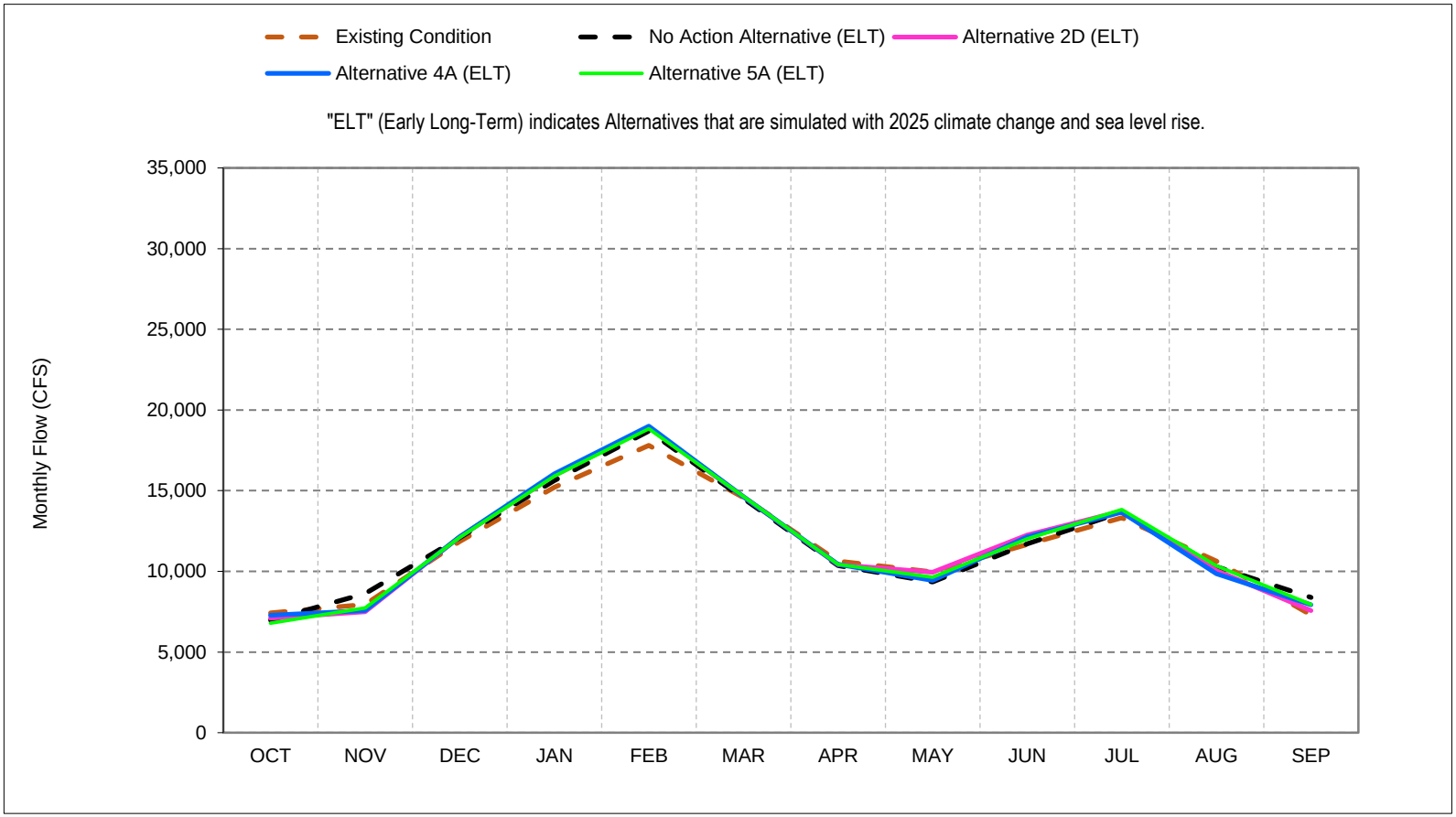
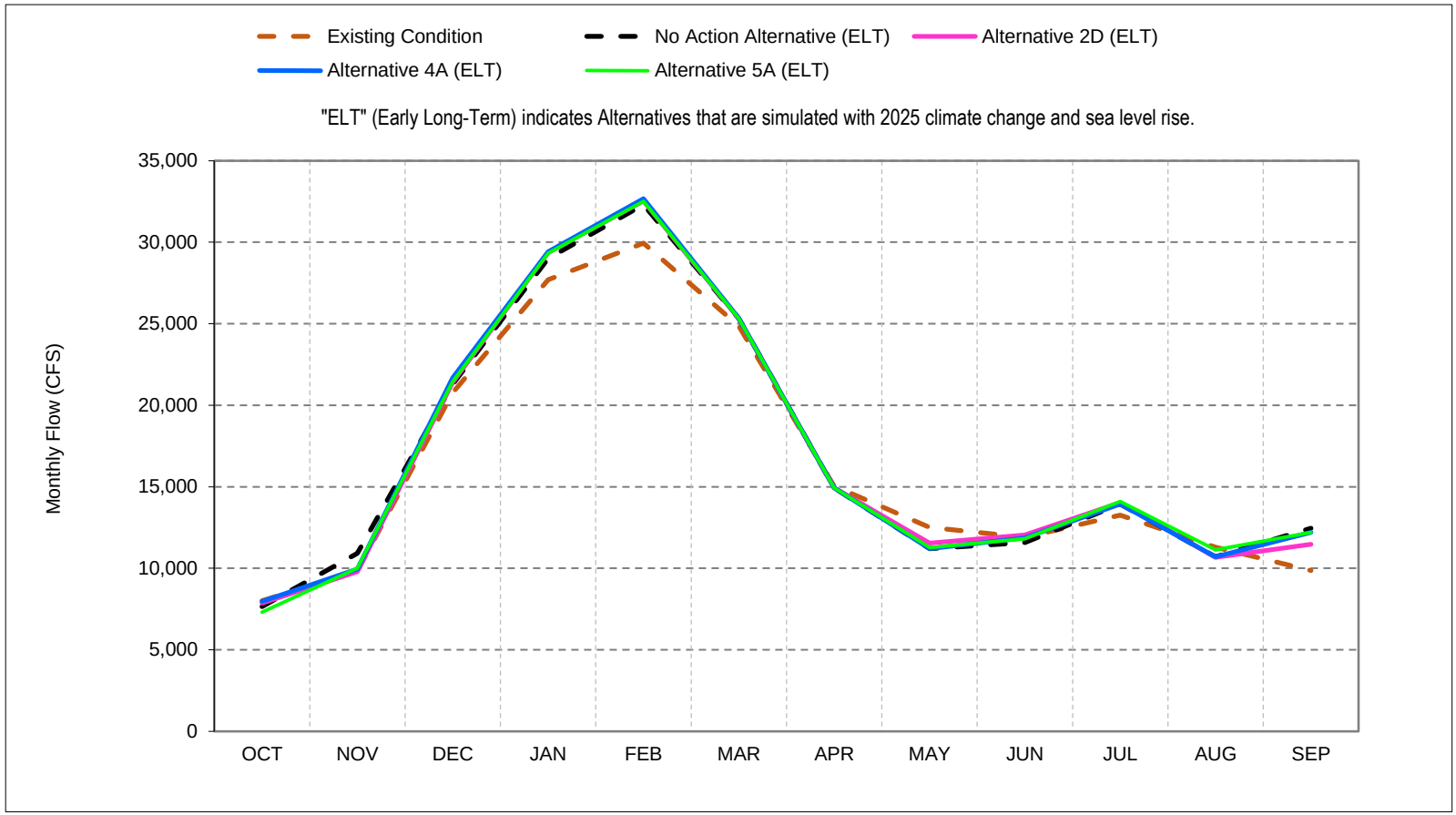
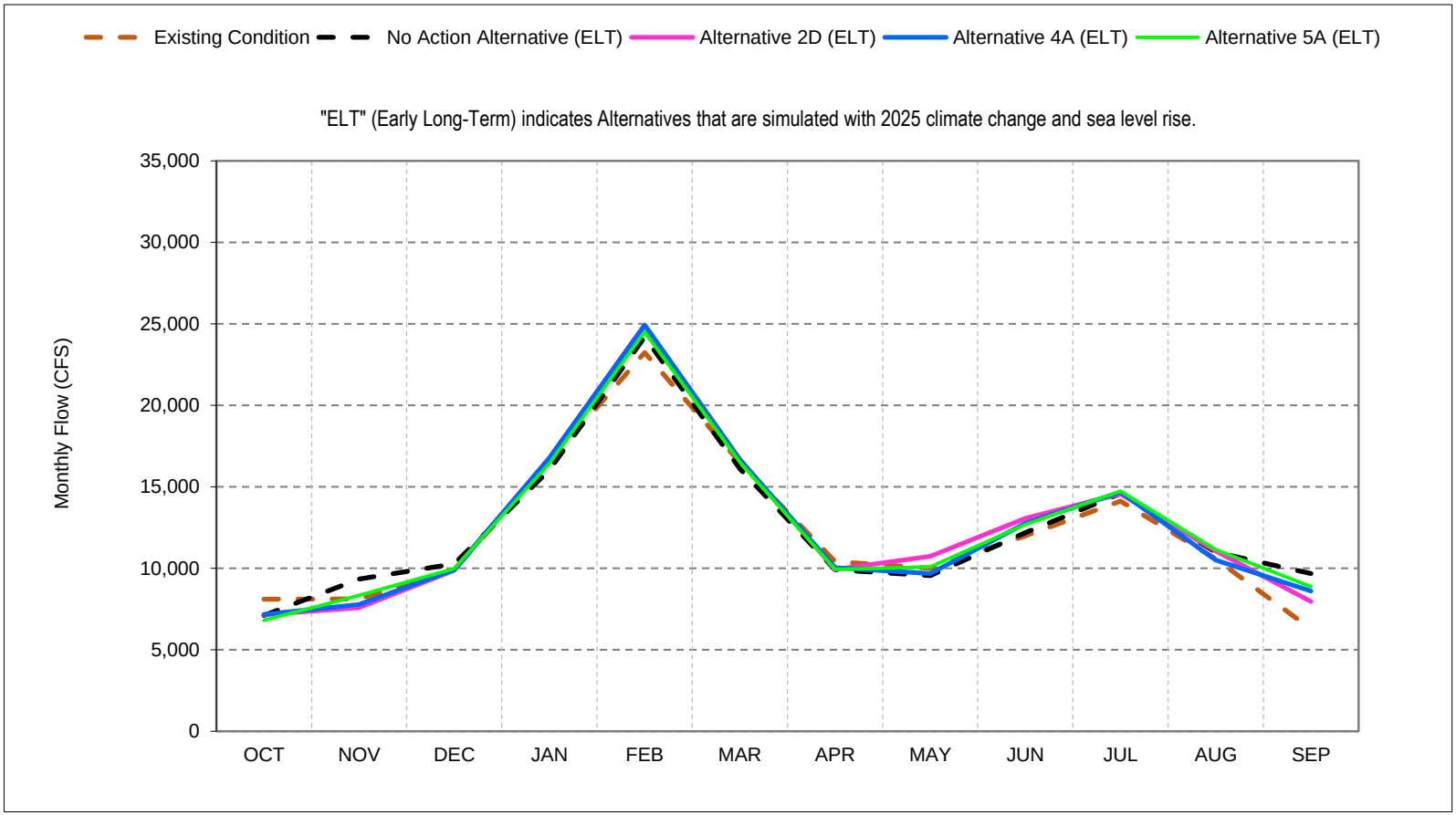


Figure C-55-1. Sacramento River at Bend Bridge, Long-Term Average Flow



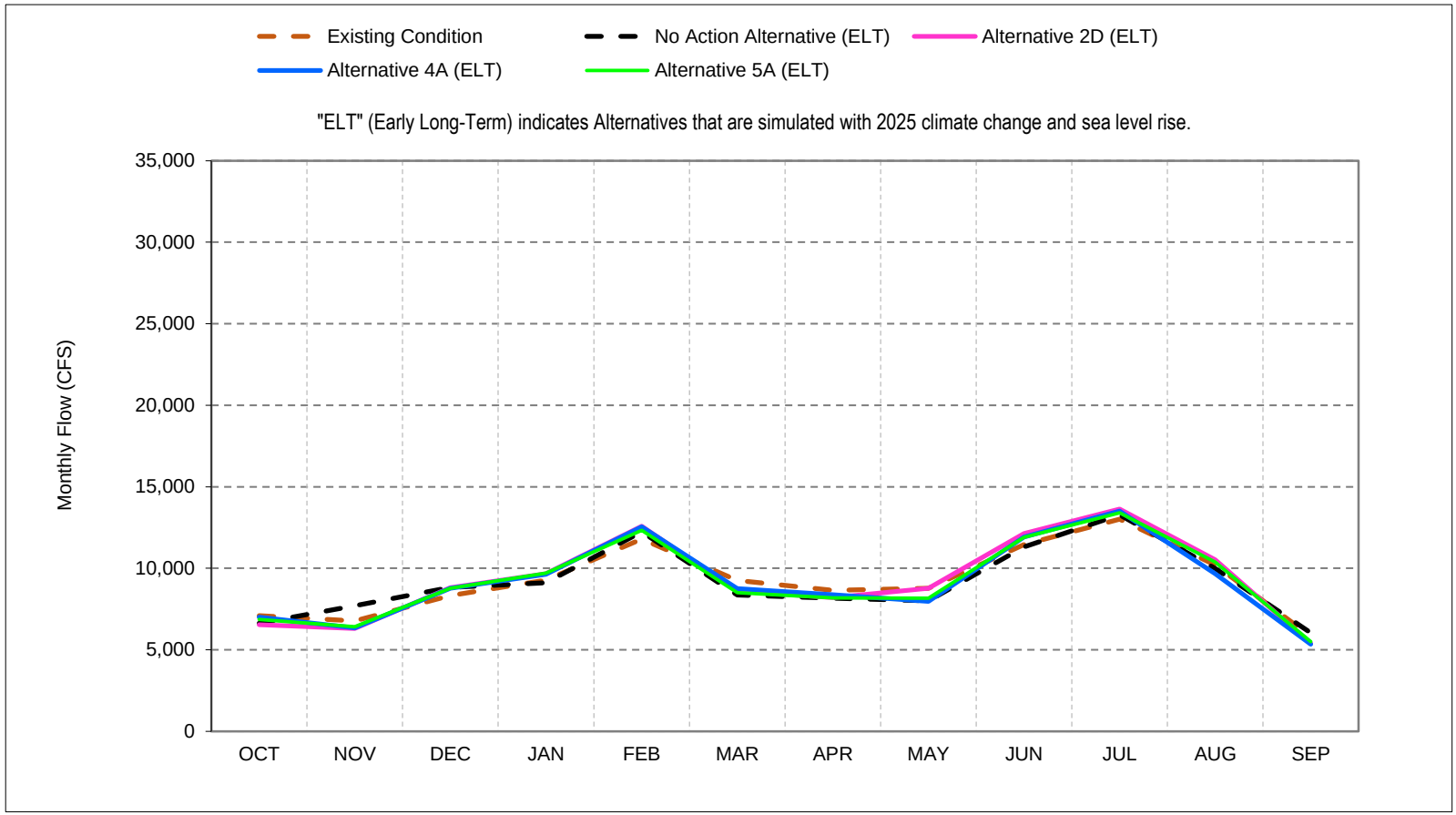
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-55-2. Sacramento River at Bend Bridge, Wet Year* Average Flow



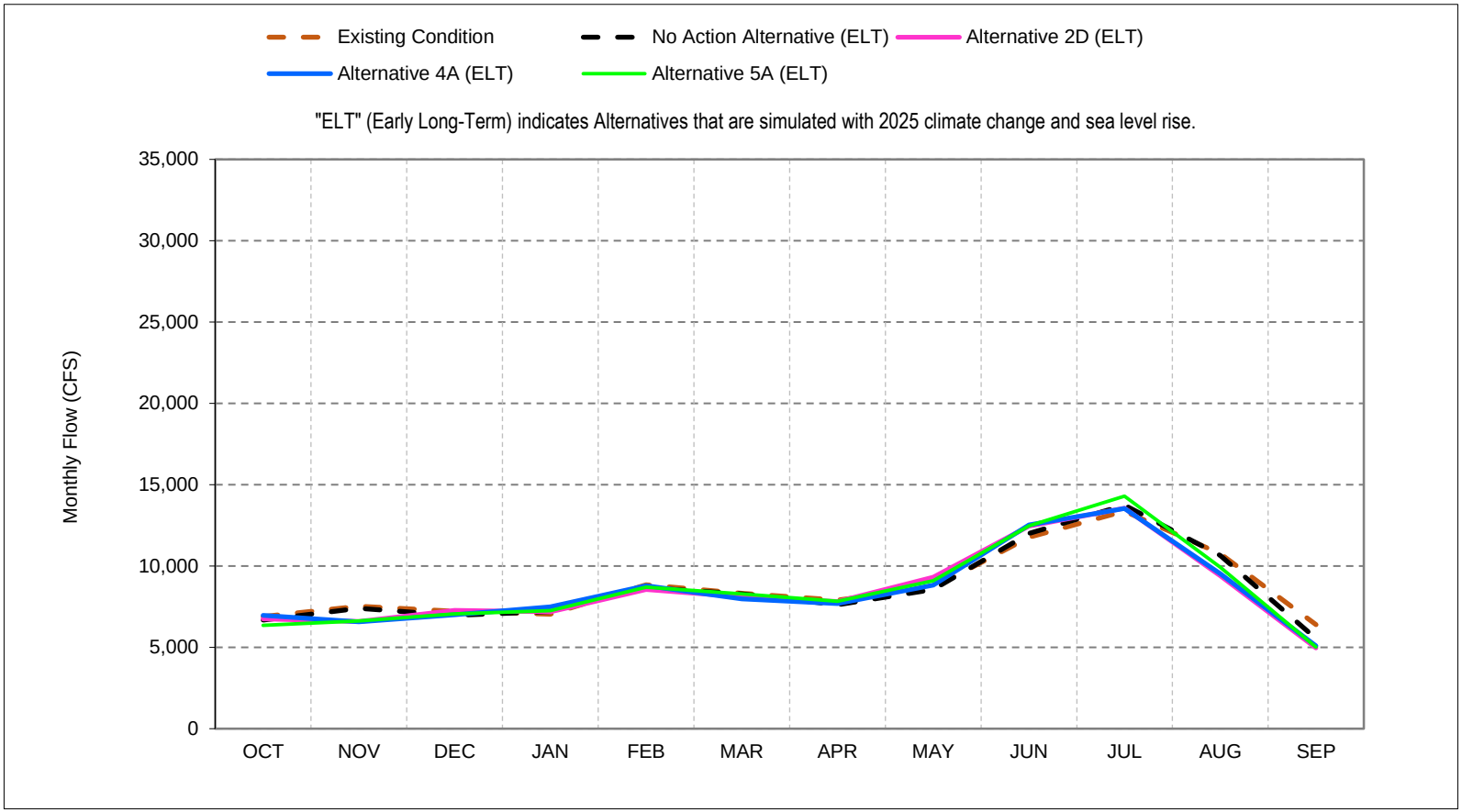
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-55-3. Sacramento River at Bend Bridge, Above Normal Year* Average Flow



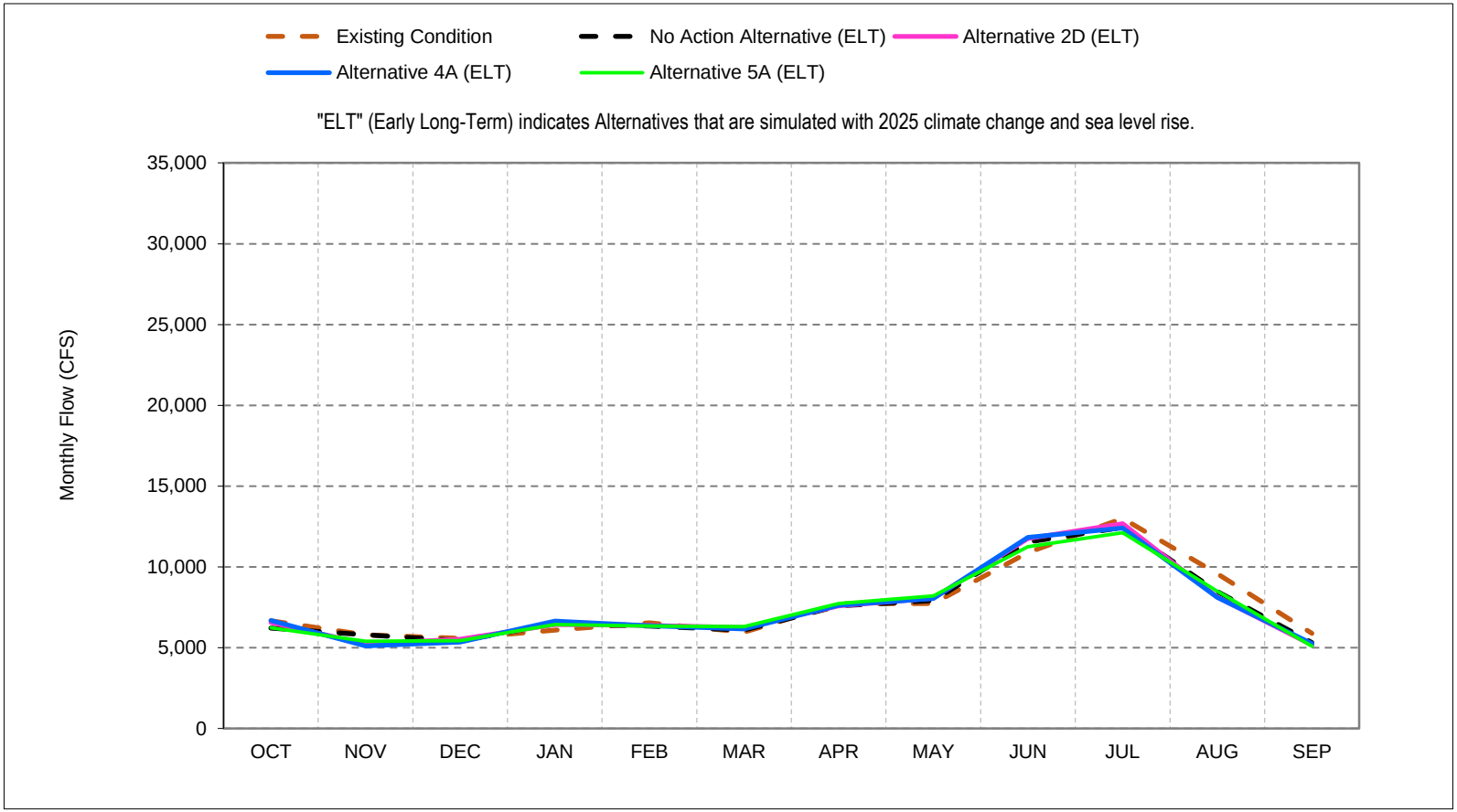
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-55-4. Sacramento River at Bend Bridge, Below Normal Year* Average Flow



*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-55-5. Sacramento River at Bend Bridge, Dry Year* Average Flow



*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-55-6. Sacramento River at Bend Bridge, Critical Year* Average Flow

Table C-55-1. Sacramento River at Bend Bridge, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	10,393	12,305	26,571	33,455	43,263	28,990	17,323	13,997	13,326	15,269	12,596	11,770
20%	9,507	9,178	19,027	23,084	29,097	19,416	12,770	11,498	12,423	14,926	11,809	9,863
30%	8,338	7,672	11,615	15,306	18,665	15,987	10,060	10,285	12,030	14,435	11,177	7,288
40%	7,128	7,112	8,826	12,155	13,004	11,357	8,996	9,547	11,684	13,742	10,709	6,746
50%	6,725	6,704	7,114	9,317	10,657	9,081	8,497	8,828	11,421	13,165	10,550	6,293
60%	6,514	6,163	6,555	7,477	8,672	7,906	8,113	8,564	11,209	12,835	10,256	5,918
70%	6,248	5,876	5,841	6,637	7,397	7,051	7,637	8,145	11,004	12,310	10,016	5,653
80%	5,930	5,589	5,379	5,967	6,379	5,845	7,242	7,693	10,321	12,031	9,489	5,419
90%	5,396	5,225	5,056	4,888	5,124	4,963	6,831	7,179	9,948	11,255	8,803	5,056
Long Term												
Full Simulation Period[a]	7,423	7,956	11,855	15,214	17,804	14,573	10,637	9,959	11,661	13,329	10,630	7,301
Water Year Types[b]												
Wet (32%)	8,006	9,821	20,767	27,694	29,943	24,855	15,049	12,508	11,896	13,253	11,283	9,854
Above Normal (15%)	8,104	8,115	9,919	16,499	23,232	16,479	10,409	9,992	11,996	14,129	10,580	6,277
Below Normal (17%)	7,087	6,769	8,315	9,269	11,796	9,262	8,645	8,765	11,459	13,010	10,202	5,819
Dry (22%)	6,895	7,520	7,208	7,031	8,834	8,320	7,908	8,666	11,774	13,368	10,747	6,390
Critical (15%)	6,662	5,797	5,583	6,099	6,537	5,966	7,721	7,739	10,882	13,004	9,590	5,886

No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	8,896	12,392	26,744	34,315	46,142	29,248	16,237	12,569	14,107	15,321	12,442	13,944
20%	8,404	10,728	18,277	23,327	31,470	19,223	12,980	10,579	12,987	15,122	11,415	12,487
30%	7,658	9,588	11,795	16,324	22,262	13,880	9,482	9,820	12,241	14,973	10,945	10,688
40%	7,208	8,701	8,518	11,434	12,803	10,449	8,591	9,340	11,589	14,753	10,618	9,039
50%	6,747	7,744	7,020	9,469	10,687	8,942	8,420	8,607	11,298	14,122	10,312	7,098
60%	6,490	7,023	6,327	7,611	8,593	7,938	7,961	8,201	11,045	13,496	9,893	6,169
70%	6,173	6,701	5,782	6,651	7,556	7,186	7,229	7,686	10,834	12,983	9,519	5,669
80%	5,780	5,344	5,417	5,959	6,467	5,942	6,918	7,453	10,498	12,361	9,026	5,012
90%	4,896	5,141	4,928	4,961	5,130	5,410	6,501	7,017	9,661	11,076	8,524	4,376
Long Term												
Full Simulation Period[a]	6,973	8,613	12,084	15,624	18,698	14,525	10,363	9,350	11,707	13,659	10,281	8,387
Water Year Types[b]												
Wet (32%)	7,647	10,922	21,292	29,004	32,305	25,320	14,939	11,198	11,584	13,936	10,700	12,453
Above Normal (15%)	7,108	9,331	10,270	16,033	24,182	16,116	9,914	9,546	12,180	14,594	10,992	9,670
Below Normal (17%)	6,626	7,689	8,824	9,104	12,236	8,364	8,162	7,995	11,304	13,278	9,979	6,035
Dry (22%)	6,679	7,396	6,957	7,194	8,652	8,285	7,612	8,549	11,998	13,741	10,638	5,533
Critical (15%)	6,226	5,792	5,441	6,475	6,343	6,092	7,591	7,928	11,534	12,447	8,478	5,320

No Action Alternative (ELT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,497	86	173	861	2,879	259	-1,086	-1,428	781	52	-154	2,174
20%	-1,103	1,550	-750	243	2,374	-194	210	-919	564	196	-393	2,624
30%	-680	1,915	180	1,018	3,597	-2,107	-578	-465	211	538	-232	3,399
40%	80	1,589	-308	-721	-201	-908	-405	-207	-95	1,011	-91	2,293
50%	22	1,041	-94	152	31	-139	-77	-221	-123	958	-238	805
60%	-25	860	-228	134	-79	32	-152	-364	-163	662	-363	250
70%	-74	825	-58	14	159	135	-409	-459	-170	673	-496	16
80%	-150	-246	38	-8	88	97	-323	-240	176	330	-464	-407
90%	-500	-83	-127	73	6	446	-330	-162	-287	-179	-279	-680
Long Term												
Full Simulation Period[a]	-449	656	229	410	895	-48	-274	-609	46	331	-349	1,086
Water Year Types[b]												
Wet (32%)	-358	1,102	526	1,310	2,362	464	-111	-1,309	-312	683	-583	2,598
Above Normal (15%)	-996	1,216	351	-466	950	-363	-495	-446	184	466	412	3,393
Below Normal (17%)	-461	920	509	-165	440	-898	-483	-770	-155	267	-223	215
Dry (22%)	-216	-123	-251	163	-181	-35	-296	-116	225	373	-108	-857
Critical (15%)	-436	-5	-142	376	-194	126	-129	190	653	-557	-1,113	-565

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-55-2. Sacramento River at Bend Bridge, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	10,393	12,305	26,571	33,455	43,263	28,990	17,323	13,997	13,326	15,269	12,596	11,770
20%	9,507	9,178	19,027	23,084	29,097	19,416	12,770	11,498	12,423	14,926	11,809	9,863
30%	8,338	7,672	11,615	15,306	18,665	15,987	10,060	10,285	12,030	14,435	11,177	7,288
40%	7,128	7,112	8,826	12,155	13,004	11,357	8,996	9,547	11,684	13,742	10,709	6,746
50%	6,725	6,704	7,114	9,317	10,657	9,081	8,497	8,828	11,421	13,165	10,550	6,293
60%	6,514	6,163	6,555	7,477	8,672	7,906	8,113	8,564	11,209	12,835	10,256	5,918
70%	6,248	5,876	5,841	6,637	7,397	7,051	7,637	8,145	11,004	12,310	10,016	5,653
80%	5,930	5,589	5,379	5,967	6,379	5,845	7,242	7,693	10,321	12,031	9,489	5,419
90%	5,396	5,225	5,056	4,888	5,124	4,963	6,831	7,179	9,948	11,255	8,803	5,056
Long Term												
Full Simulation Period[a]	7,423	7,956	11,855	15,214	17,804	14,573	10,637	9,959	11,661	13,329	10,630	7,301
Water Year Types[b]												
Wet (32%)	8,006	9,821	20,767	27,694	29,943	24,855	15,049	12,508	11,896	13,253	11,283	9,854
Above Normal (15%)	8,104	8,115	9,919	16,499	23,232	16,479	10,409	9,992	11,996	14,129	10,580	6,277
Below Normal (17%)	7,087	6,769	8,315	9,269	11,796	9,262	8,645	8,765	11,459	13,010	10,202	5,819
Dry (22%)	6,895	7,520	7,208	7,031	8,834	8,320	7,908	8,666	11,774	13,368	10,747	6,390
Critical (15%)	6,662	5,797	5,583	6,099	6,537	5,966	7,721	7,739	10,882	13,004	9,590	5,886

Alternative 2D (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	8,842	10,848	28,414	35,647	47,099	29,248	16,238	13,758	15,115	15,358	12,083	12,513
20%	8,457	8,099	18,795	24,904	31,469	19,222	12,981	11,900	14,249	15,169	11,353	10,510
30%	7,923	7,354	11,798	16,320	22,239	14,381	9,989	10,558	12,926	15,028	10,904	9,744
40%	7,483	7,019	8,803	12,743	12,816	10,568	8,812	9,953	12,113	14,937	10,423	7,483
50%	7,050	6,649	7,256	9,469	10,744	8,803	8,505	9,374	11,769	14,452	10,188	6,299
60%	6,620	6,243	6,371	7,478	8,671	7,938	7,868	8,688	11,653	13,800	9,905	5,582
70%	6,319	5,717	5,731	6,559	7,553	7,185	7,235	8,151	11,185	12,810	9,285	5,128
80%	6,024	5,478	5,265	6,022	6,464	6,309	6,908	7,642	10,719	12,134	8,477	4,698
90%	5,274	5,135	4,930	4,957	5,062	5,445	6,586	7,108	10,083	11,458	7,999	4,408
Long Term												
Full Simulation Period[a]	7,095	7,502	12,135	15,929	18,920	14,630	10,415	9,949	12,258	13,734	10,050	7,569
Water Year Types[b]												
Wet (32%)	7,860	9,791	21,394	29,360	32,532	25,318	14,939	11,539	12,047	14,020	10,664	11,473
Above Normal (15%)	7,144	7,583	9,876	16,763	24,920	16,679	9,921	10,733	13,061	14,560	11,057	7,965
Below Normal (17%)	6,527	6,297	8,806	9,661	12,578	8,597	8,202	8,763	12,133	13,630	10,527	5,395
Dry (22%)	6,751	6,586	7,267	7,179	8,550	8,106	7,809	9,305	12,455	13,554	9,393	4,959
Critical (15%)	6,569	5,239	5,521	6,429	6,380	6,248	7,598	8,068	11,762	12,679	8,141	5,163

Alternative 2D (ELT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-1,551**	**-1,457**	1,843	2,192	3,836	259	**-1,085**	**-240**	1,790	89	**-513**	744
20%	**-1,050**	**-1,079**	**-233**	1,821	2,373	**-194**	211	401	1,826	243	**-456**	647
30%	**-414**	**-318**	183	1,014	3,574	**-1,606**	**-71**	273	896	593	**-273**	2,456
40%	355	**-93**	**-23**	588	**-187**	**-789**	**-184**	407	430	1,195	**-286**	737
50%	325	**-55**	142	152	88	**-278**	8	546	348	1,287	**-362**	5
60%	106	79	**-184**	1	**-1**	32	**-245**	123	444	966	**-351**	**-336**
70%	71	**-159**	**-109**	**-78**	156	134	**-402**	6	181	501	**-730**	**-526**
80%	94	**-112**	**-114**	55	85	465	**-334**	**-51**	398	103	**-1,012**	**-720**
90%	**-122**	**-90**	**-126**	69	**-61**	481	**-245**	**-71**	135	203	**-804**	**-648**
Long Term												
Full Simulation Period[a]	**-328**	**-455**	280	714	1,116	57	**-222**	**-10**	597	405	**-580**	268
Water Year Types[b]												
Wet (32%)	**-146**	**-30**	627	1,666	2,589	463	**-110**	**-968**	151	767	**-619**	1,619
Above Normal (15%)	**-960**	**-532**	**-43**	264	1,688	200	**-487**	741	1,065	431	477	1,688
Below Normal (17%)	**-560**	**-472**	491	392	782	**-664**	**-443**	**-2**	674	619	325	**-424**
Dry (22%)	**-144**	**-934**	59	147	**-284**	**-214**	**-98**	639	681	186	**-1,354**	**-1,431**
Critical (15%)	**-93**	**-559**	**-62**	330	**-157**	282	**-123**	329	880	**-325**	**-1,449**	**-723**

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-55-3. Sacramento River at Bend Bridge, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	10,393	12,305	26,571	33,455	43,263	28,990	17,323	13,997	13,326	15,269	12,596	11,770
20%	9,507	9,178	19,027	23,084	29,097	19,416	12,770	11,498	12,423	14,926	11,809	9,863
30%	8,338	7,672	11,615	15,306	18,665	15,987	10,060	10,285	12,030	14,435	11,177	7,288
40%	7,128	7,112	8,826	12,155	13,004	11,357	8,996	9,547	11,684	13,742	10,709	6,746
50%	6,725	6,704	7,114	9,317	10,657	9,081	8,497	8,828	11,421	13,165	10,550	6,293
60%	6,514	6,163	6,555	7,477	8,672	7,906	8,113	8,564	11,209	12,835	10,256	5,918
70%	6,248	5,876	5,841	6,637	7,397	7,051	7,637	8,145	11,004	12,310	10,016	5,653
80%	5,930	5,589	5,379	5,967	6,379	5,845	7,242	7,693	10,321	12,031	9,489	5,419
90%	5,396	5,225	5,056	4,888	5,124	4,963	6,831	7,179	9,948	11,255	8,803	5,056
Long Term												
Full Simulation Period[a]	7,423	7,956	11,855	15,214	17,804	14,573	10,637	9,959	11,661	13,329	10,630	7,301
Water Year Types[b]												
Wet (32%)	8,006	9,821	20,767	27,694	29,943	24,855	15,049	12,508	11,896	13,253	11,283	9,854
Above Normal (15%)	8,104	8,115	9,919	16,499	23,232	16,479	10,409	9,992	11,996	14,129	10,580	6,277
Below Normal (17%)	7,087	6,769	8,315	9,269	11,796	9,262	8,645	8,765	11,459	13,010	10,202	5,819
Dry (22%)	6,895	7,520	7,208	7,031	8,834	8,320	7,908	8,666	11,774	13,368	10,747	6,390
Critical (15%)	6,662	5,797	5,583	6,099	6,537	5,966	7,721	7,739	10,882	13,004	9,590	5,886

Alternative 4A (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,401	10,914	28,381	35,669	47,097	29,249	16,352	12,618	15,287	15,310	11,473	13,184
20%	8,372	8,005	18,155	23,595	31,469	19,167	12,982	11,047	14,014	15,147	11,029	11,571
30%	8,066	7,352	11,679	16,318	22,362	14,428	9,971	9,828	12,721	15,008	10,511	10,004
40%	7,640	7,043	8,532	12,756	13,265	10,876	8,910	9,285	12,090	14,848	10,277	8,185
50%	7,309	6,763	7,027	9,885	10,687	8,938	8,471	8,627	11,743	14,119	10,018	6,316
60%	7,017	6,334	6,211	7,738	8,579	7,939	7,911	8,385	11,280	13,439	9,792	5,641
70%	6,709	5,988	5,558	6,830	7,554	7,283	7,244	7,761	11,041	12,864	9,333	5,392
80%	6,181	5,333	5,224	6,080	6,464	6,213	6,920	7,630	10,506	12,232	8,749	4,893
90%	5,317	5,125	4,872	5,000	5,060	5,413	6,589	7,114	9,966	11,346	7,889	4,410
Long Term												
Full Simulation Period[a]	7,276	7,563	12,141	16,040	19,002	14,617	10,440	9,444	12,147	13,664	9,856	7,924
Water Year Types[b]												
Wet (32%)	7,960	9,943	21,677	29,413	32,664	25,342	14,939	11,208	11,870	13,945	10,696	12,198
Above Normal (15%)	7,162	7,787	9,916	16,764	24,899	16,639	10,031	9,669	12,763	14,681	10,507	8,600
Below Normal (17%)	7,008	6,342	8,778	9,622	12,533	8,744	8,385	7,974	11,919	13,507	9,662	5,344
Dry (22%)	6,965	6,558	6,992	7,484	8,790	7,978	7,691	8,824	12,518	13,539	9,522	5,077
Critical (15%)	6,688	5,112	5,352	6,661	6,365	6,169	7,623	8,045	11,838	12,411	8,115	5,265

Alternative 4A (ELT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-992**	**-1,392**	1,811	2,214	3,834	260	**-971**	**-1,380**	1,961	40	**-1,123**	1,415
20%	**-1,134**	**-1,173**	**-873**	511	2,372	**-249**	211	**-451**	1,591	221	**-779**	1,708
30%	**-272**	**-320**	64	1,012	3,697	**-1,558**	**-89**	**-457**	691	573	**-666**	2,715
40%	512	**-69**	**-294**	601	261	**-481**	**-86**	**-262**	406	1,107	**-432**	1,439
50%	584	59	**-87**	568	30	**-143**	**-25**	**-201**	323	954	**-532**	23
60%	502	170	**-345**	260	**-94**	32	**-201**	**-179**	71	604	**-463**	**-277**
70%	461	112	**-283**	193	157	233	**-394**	**-384**	37	554	**-683**	**-261**
80%	252	**-256**	**-155**	113	85	369	**-322**	**-63**	185	201	**-740**	**-526**
90%	**-79**	**-99**	**-183**	112	**-64**	450	**-242**	**-65**	18	91	**-914**	**-645**
Long Term												
Full Simulation Period[a]	**-147**	**-393**	286	825	1,198	44	**-196**	**-515**	486	336	**-774**	623
Water Year Types[b]												
Wet (32%)	**-46**	122	910	1,719	2,721	486	**-110**	**-1,300**	**-26**	692	**-587**	2,344
Above Normal (15%)	**-941**	**-328**	**-3**	264	1,667	159	**-378**	**-323**	768	553	**-73**	2,323
Below Normal (17%)	**-79**	**-427**	463	353	737	**-518**	**-260**	**-791**	460	497	**-540**	**-475**
Dry (22%)	70	**-962**	**-216**	453	**-44**	**-341**	**-217**	158	745	171	**-1,224**	**-1,313**
Critical (15%)	26	**-685**	**-231**	561	**-172**	203	**-97**	306	956	**-593**	**-1,476**	**-621**

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-55-4. Sacramento River at Bend Bridge, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	10,393	12,305	26,571	33,455	43,263	28,990	17,323	13,997	13,326	15,269	12,596	11,770
20%	9,507	9,178	19,027	23,084	29,097	19,416	12,770	11,498	12,423	14,926	11,809	9,863
30%	8,338	7,672	11,615	15,306	18,665	15,987	10,060	10,285	12,030	14,435	11,177	7,288
40%	7,128	7,112	8,826	12,155	13,004	11,357	8,996	9,547	11,684	13,742	10,709	6,746
50%	6,725	6,704	7,114	9,317	10,657	9,081	8,497	8,828	11,421	13,165	10,550	6,293
60%	6,514	6,163	6,555	7,477	8,672	7,906	8,113	8,564	11,209	12,835	10,256	5,918
70%	6,248	5,876	5,841	6,637	7,397	7,051	7,637	8,145	11,004	12,310	10,016	5,653
80%	5,930	5,589	5,379	5,967	6,379	5,845	7,242	7,693	10,321	12,031	9,489	5,419
90%	5,396	5,225	5,056	4,888	5,124	4,963	6,831	7,179	9,948	11,255	8,803	5,056
Long Term												
Full Simulation Period[a]	7,423	7,956	11,855	15,214	17,804	14,573	10,637	9,959	11,661	13,329	10,630	7,301
Water Year Types[b]												
Wet (32%)	8,006	9,821	20,767	27,694	29,943	24,855	15,049	12,508	11,896	13,253	11,283	9,854
Above Normal (15%)	8,104	8,115	9,919	16,499	23,232	16,479	10,409	9,992	11,996	14,129	10,580	6,277
Below Normal (17%)	7,087	6,769	8,315	9,269	11,796	9,262	8,645	8,765	11,459	13,010	10,202	5,819
Dry (22%)	6,895	7,520	7,208	7,031	8,834	8,320	7,908	8,666	11,774	13,368	10,747	6,390
Critical (15%)	6,662	5,797	5,583	6,099	6,537	5,966	7,721	7,739	10,882	13,004	9,590	5,886

Alternative 5A (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	8,824	11,023	29,195	35,637	47,097	29,249	16,240	12,658	14,960	15,354	12,598	13,396
20%	8,128	8,890	18,497	23,536	31,471	19,224	12,981	11,144	13,838	15,217	11,799	11,690
30%	7,261	7,420	11,788	16,316	22,239	14,380	9,967	10,386	12,633	15,061	11,365	10,109
40%	6,840	7,083	8,530	12,754	13,119	10,877	8,934	9,657	11,917	14,975	10,982	7,937
50%	6,469	6,841	7,046	9,466	10,687	8,947	8,506	8,854	11,464	14,826	10,435	6,523
60%	6,267	6,484	6,346	7,478	8,583	7,938	7,883	8,556	11,210	13,952	10,112	5,912
70%	5,953	6,011	5,726	6,652	7,554	7,200	7,260	8,112	10,879	13,306	9,418	5,018
80%	5,619	5,391	5,396	6,065	6,464	6,605	6,923	7,508	10,571	12,113	8,876	4,664
90%	4,833	5,142	4,928	4,974	4,990	5,473	6,502	7,075	9,893	11,391	8,188	4,226
Long Term												
Full Simulation Period[a]	6,790	7,729	12,098	15,894	18,839	14,637	10,434	9,644	12,013	13,822	10,351	7,950
Water Year Types[b]												
Wet (32%)	7,308	10,008	21,440	29,324	32,519	25,319	14,938	11,278	11,802	14,095	11,122	12,200
Above Normal (15%)	6,804	8,325	9,973	16,431	24,495	16,507	9,924	10,087	12,682	14,723	11,150	8,873
Below Normal (17%)	6,859	6,412	8,767	9,704	12,330	8,501	8,180	8,171	11,896	13,391	10,379	5,491
Dry (22%)	6,344	6,620	7,053	7,253	8,700	8,282	7,820	9,092	12,467	14,289	9,923	5,012
Critical (15%)	6,241	5,395	5,436	6,441	6,344	6,313	7,737	8,212	11,256	12,128	8,495	5,094

Alternative 5A (ELT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-1,569**	**-1,282**	2,624	2,182	3,835	260	**-1,083**	**-1,339**	1,634	85	2	1,626
20%	**-1,379**	**-288**	**-530**	453	2,374	**-193**	211	**-354**	1,414	291	**-10**	1,827
30%	**-1,076**	**-253**	173	1,010	3,574	**-1,606**	**-93**	101	603	626	188	2,821
40%	**-288**	**-29**	**-297**	600	116	**-481**	**-61**	110	233	1,234	273	1,191
50%	**-257**	138	**-68**	149	31	**-134**	9	26	44	1,661	**-115**	230
60%	**-247**	320	**-209**	1	**-89**	32	**-229**	**-8**	2	1,118	**-144**	**-6**
70%	**-295**	135	**-115**	14	157	150	**-378**	**-32**	**-125**	997	**-598**	**-636**
80%	**-311**	**-199**	17	98	86	760	**-319**	**-184**	250	82	**-613**	**-754**
90%	**-563**	**-83**	**-127**	86	**-134**	510	**-329**	**-104**	**-55**	135	**-615**	**-829**
Long Term												
Full Simulation Period[a]	**-633**	**-227**	243	680	1,035	63	**-202**	**-315**	352	493	**-279**	649
Water Year Types[b]												
Wet (32%)	**-697**	187	673	1,630	2,576	463	**-111**	**-1,230**	**-94**	842	**-161**	2,345
Above Normal (15%)	**-1,300**	210	54	**-68**	1,263	27	**-484**	95	686	594	570	2,596
Below Normal (17%)	**-227**	**-357**	451	435	534	**-761**	**-465**	**-594**	437	381	178	**-328**
Dry (22%)	**-551**	**-900**	**-155**	221	**-134**	**-38**	**-88**	426	693	921	**-824**	**-1,379**
Critical (15%)	**-421**	**-402**	**-147**	341	**-193**	347	16	473	374	**-876**	**-1,095**	**-792**

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-55-5. Sacramento River at Bend Bridge, Monthly Flow

No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	8,896	12,392	26,744	34,315	46,142	29,248	16,237	12,569	14,107	15,321	12,442	13,944
20%	8,404	10,728	18,277	23,327	31,470	19,223	12,980	10,579	12,987	15,122	11,415	12,487
30%	7,658	9,588	11,795	16,324	22,262	13,880	9,482	9,820	12,241	14,973	10,945	10,688
40%	7,208	8,701	8,518	11,434	12,803	10,449	8,591	9,340	11,589	14,753	10,618	9,039
50%	6,747	7,744	7,020	9,469	10,687	8,942	8,420	8,607	11,298	14,122	10,312	7,098
60%	6,490	7,023	6,327	7,611	8,593	7,938	7,961	8,201	11,045	13,496	9,893	6,169
70%	6,173	6,701	5,782	6,651	7,556	7,186	7,229	7,686	10,834	12,983	9,519	5,669
80%	5,780	5,344	5,417	5,959	6,467	5,942	6,918	7,453	10,498	12,361	9,026	5,012
90%	4,896	5,141	4,928	4,961	5,130	5,410	6,501	7,017	9,661	11,076	8,524	4,376
Long Term												
Full Simulation Period[a]	6,973	8,613	12,084	15,624	18,698	14,525	10,363	9,350	11,707	13,659	10,281	8,387
Water Year Types[b]												
Wet (32%)	7,647	10,922	21,292	29,004	32,305	25,320	14,939	11,198	11,584	13,936	10,700	12,453
Above Normal (15%)	7,108	9,331	10,270	16,033	24,182	16,116	9,914	9,546	12,180	14,594	10,992	9,670
Below Normal (17%)	6,626	7,689	8,824	9,104	12,236	8,364	8,162	7,995	11,304	13,278	9,979	6,035
Dry (22%)	6,679	7,396	6,957	7,194	8,652	8,285	7,612	8,549	11,998	13,741	10,638	5,533
Critical (15%)	6,226	5,792	5,441	6,475	6,343	6,092	7,591	7,928	11,534	12,447	8,478	5,320

Alternative 2D (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	8,842	10,848	28,414	35,647	47,099	29,248	16,238	13,758	15,115	15,358	12,083	12,513
20%	8,457	8,099	18,795	24,904	31,469	19,222	12,981	11,900	14,249	15,169	11,353	10,510
30%	7,923	7,354	11,798	16,320	22,239	14,381	9,989	10,558	12,926	15,028	10,904	9,744
40%	7,483	7,019	8,803	12,743	12,816	10,568	8,812	9,953	12,113	14,937	10,423	7,483
50%	7,050	6,649	7,256	9,469	10,744	8,803	8,505	9,374	11,769	14,452	10,188	6,299
60%	6,620	6,243	6,371	7,478	8,671	7,938	7,868	8,688	11,653	13,800	9,905	5,582
70%	6,319	5,717	5,731	6,559	7,553	7,185	7,235	8,151	11,185	12,810	9,285	5,128
80%	6,024	5,478	5,265	6,022	6,464	6,309	6,908	7,642	10,719	12,134	8,477	4,698
90%	5,274	5,135	4,930	4,957	5,062	5,445	6,586	7,108	10,083	11,458	7,999	4,408
Long Term												
Full Simulation Period[a]	7,095	7,502	12,135	15,929	18,920	14,630	10,415	9,949	12,258	13,734	10,050	7,569
Water Year Types[b]												
Wet (32%)	7,860	9,791	21,394	29,360	32,532	25,318	14,939	11,539	12,047	14,020	10,664	11,473
Above Normal (15%)	7,144	7,583	9,876	16,763	24,920	16,679	9,921	10,733	13,061	14,560	11,057	7,965
Below Normal (17%)	6,527	6,297	8,806	9,661	12,578	8,597	8,202	8,763	12,133	13,630	10,527	5,395
Dry (22%)	6,751	6,586	7,267	7,179	8,550	8,106	7,809	9,305	12,455	13,554	9,393	4,959
Critical (15%)	6,569	5,239	5,521	6,429	6,380	6,248	7,598	8,068	11,762	12,679	8,141	5,163

Alternative 2D (ELT) minus No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-54	-1,544	1,670	1,332	957	0	1	1,188	1,008	37	-359	-1,431
20%	53	-2,629	517	1,578	-1	-1	1	1,321	1,262	47	-63	-1,977
30%	266	-2,233	2	-3	-23	501	507	738	685	55	-41	-943
40%	274	-1,682	285	1,309	14	119	221	614	525	184	-195	-1,556
50%	303	-1,096	236	0	57	-139	85	767	471	329	-124	-799
60%	130	-780	44	-133	78	0	-93	487	607	304	12	-587
70%	145	-985	-51	-92	-2	-1	6	465	351	-173	-234	-542
80%	244	134	-152	63	-3	368	-11	189	221	-226	-549	-313
90%	379	-7	2	-4	-67	35	85	91	422	382	-524	32
Long Term												
Full Simulation Period[a]	122	-1,111	51	305	222	105	52	599	551	74	-231	-818
Water Year Types[b]												
Wet (32%)	213	-1,131	102	356	228	-2	0	341	463	83	-36	-979
Above Normal (15%)	36	-1,748	-394	730	739	563	7	1,187	881	-34	65	-1,705
Below Normal (17%)	-99	-1,392	-18	557	342	233	40	768	828	352	549	-639
Dry (22%)	72	-810	310	-16	-103	-179	197	756	457	-187	-1,245	-574
Critical (15%)	343	-554	79	-45	37	156	6	139	228	231	-336	-157

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-55-6. Sacramento River at Bend Bridge, Monthly Flow

No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	8,896	12,392	26,744	34,315	46,142	29,248	16,237	12,569	14,107	15,321	12,442	13,944
20%	8,404	10,728	18,277	23,327	31,470	19,223	12,980	10,579	12,987	15,122	11,415	12,487
30%	7,658	9,588	11,795	16,324	22,262	13,880	9,482	9,820	12,241	14,973	10,945	10,688
40%	7,208	8,701	8,518	11,434	12,803	10,449	8,591	9,340	11,589	14,753	10,618	9,039
50%	6,747	7,744	7,020	9,469	10,687	8,942	8,420	8,607	11,298	14,122	10,312	7,098
60%	6,490	7,023	6,327	7,611	8,593	7,938	7,961	8,201	11,045	13,496	9,893	6,169
70%	6,173	6,701	5,782	6,651	7,556	7,186	7,229	7,686	10,834	12,983	9,519	5,669
80%	5,780	5,344	5,417	5,959	6,467	5,942	6,918	7,453	10,498	12,361	9,026	5,012
90%	4,896	5,141	4,928	4,961	5,130	5,410	6,501	7,017	9,661	11,076	8,524	4,376
Long Term												
Full Simulation Period[a]	6,973	8,613	12,084	15,624	18,698	14,525	10,363	9,350	11,707	13,659	10,281	8,387
Water Year Types[b]												
Wet (32%)	7,647	10,922	21,292	29,004	32,305	25,320	14,939	11,198	11,584	13,936	10,700	12,453
Above Normal (15%)	7,108	9,331	10,270	16,033	24,182	16,116	9,914	9,546	12,180	14,594	10,992	9,670
Below Normal (17%)	6,626	7,689	8,824	9,104	12,236	8,364	8,162	7,995	11,304	13,278	9,979	6,035
Dry (22%)	6,679	7,396	6,957	7,194	8,652	8,285	7,612	8,549	11,998	13,741	10,638	5,533
Critical (15%)	6,226	5,792	5,441	6,475	6,343	6,092	7,591	7,928	11,534	12,447	8,478	5,320

Alternative 4A (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,401	10,914	28,381	35,669	47,097	29,249	16,352	12,618	15,287	15,310	11,473	13,184
20%	8,372	8,005	18,155	23,595	31,469	19,167	12,982	11,047	14,014	15,147	11,029	11,571
30%	8,066	7,352	11,679	16,318	22,362	14,428	9,971	9,828	12,721	15,008	10,511	10,004
40%	7,640	7,043	8,532	12,756	13,265	10,876	8,910	9,285	12,090	14,848	10,277	8,185
50%	7,309	6,763	7,027	9,885	10,687	8,938	8,471	8,627	11,743	14,119	10,018	6,316
60%	7,017	6,334	6,211	7,738	8,579	7,939	7,911	8,385	11,280	13,439	9,792	5,641
70%	6,709	5,988	5,558	6,830	7,554	7,283	7,244	7,761	11,041	12,864	9,333	5,392
80%	6,181	5,333	5,224	6,080	6,464	6,213	6,920	7,630	10,506	12,232	8,749	4,893
90%	5,317	5,125	4,872	5,000	5,060	5,413	6,589	7,114	9,966	11,346	7,889	4,410
Long Term												
Full Simulation Period[a]	7,276	7,563	12,141	16,040	19,002	14,617	10,440	9,444	12,147	13,664	9,856	7,924
Water Year Types[b]												
Wet (32%)	7,960	9,943	21,677	29,413	32,664	25,342	14,939	11,208	11,870	13,945	10,696	12,198
Above Normal (15%)	7,162	7,787	9,916	16,764	24,899	16,639	10,031	9,669	12,763	14,681	10,507	8,600
Below Normal (17%)	7,008	6,342	8,778	9,622	12,533	8,744	8,385	7,974	11,919	13,507	9,662	5,344
Dry (22%)	6,965	6,558	6,992	7,484	8,790	7,978	7,691	8,824	12,518	13,539	9,522	5,077
Critical (15%)	6,688	5,112	5,352	6,661	6,365	6,169	7,623	8,045	11,838	12,411	8,115	5,265

Alternative 4A (ELT) minus No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	504	-1,478	1,637	1,354	955	1	115	48	1,180	-11	-969	-760
20%	-31	-2,723	-123	268	-1	-56	1	468	1,026	25	-386	-916
30%	408	-2,235	-116	-6	100	549	489	8	480	35	-435	-684
40%	432	-1,658	14	1,322	462	427	319	-55	501	95	-342	-854
50%	562	-982	7	416	0	-4	52	20	445	-4	-293	-782
60%	527	-689	-117	127	-15	1	-49	184	234	-58	-100	-527
70%	536	-713	-224	179	-1	97	15	75	207	-119	-187	-277
80%	402	-10	-192	121	-3	272	1	177	8	-129	-276	-119
90%	421	-16	-56	39	-69	4	88	97	305	270	-635	35
Long Term												
Full Simulation Period[a]	303	-1,050	57	416	303	92	77	95	440	5	-424	-464
Water Year Types[b]												
Wet (32%)	313	-979	384	409	360	22	0	9	286	9	-4	-254
Above Normal (15%)	55	-1,544	-354	730	717	522	117	123	583	87	-485	-1,070
Below Normal (17%)	382	-1,347	-46	518	298	380	223	-21	615	229	-317	-690
Dry (22%)	286	-838	35	290	137	-307	79	275	520	-202	-1,116	-456
Critical (15%)	462	-680	-90	186	22	76	32	116	304	-37	-363	-56

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-55-7. Sacramento River at Bend Bridge, Monthly Flow

No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	8,896	12,392	26,744	34,315	46,142	29,248	16,237	12,569	14,107	15,321	12,442	13,944
20%	8,404	10,728	18,277	23,327	31,470	19,223	12,980	10,579	12,987	15,122	11,415	12,487
30%	7,658	9,588	11,795	16,324	22,262	13,880	9,482	9,820	12,241	14,973	10,945	10,688
40%	7,208	8,701	8,518	11,434	12,803	10,449	8,591	9,340	11,589	14,753	10,618	9,039
50%	6,747	7,744	7,020	9,469	10,687	8,942	8,420	8,607	11,298	14,122	10,312	7,098
60%	6,490	7,023	6,327	7,611	8,593	7,938	7,961	8,201	11,045	13,496	9,893	6,169
70%	6,173	6,701	5,782	6,651	7,556	7,186	7,229	7,686	10,834	12,983	9,519	5,669
80%	5,780	5,344	5,417	5,959	6,467	5,942	6,918	7,453	10,498	12,361	9,026	5,012
90%	4,896	5,141	4,928	4,961	5,130	5,410	6,501	7,017	9,661	11,076	8,524	4,376
Long Term												
Full Simulation Period[a]	6,973	8,613	12,084	15,624	18,698	14,525	10,363	9,350	11,707	13,659	10,281	8,387
Water Year Types[b]												
Wet (32%)	7,647	10,922	21,292	29,004	32,305	25,320	14,939	11,198	11,584	13,936	10,700	12,453
Above Normal (15%)	7,108	9,331	10,270	16,033	24,182	16,116	9,914	9,546	12,180	14,594	10,992	9,670
Below Normal (17%)	6,626	7,689	8,824	9,104	12,236	8,364	8,162	7,995	11,304	13,278	9,979	6,035
Dry (22%)	6,679	7,396	6,957	7,194	8,652	8,285	7,612	8,549	11,998	13,741	10,638	5,533
Critical (15%)	6,226	5,792	5,441	6,475	6,343	6,092	7,591	7,928	11,534	12,447	8,478	5,320

Alternative 5A (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	8,824	11,023	29,195	35,637	47,097	29,249	16,240	12,658	14,960	15,354	12,598	13,396
20%	8,128	8,890	18,497	23,536	31,471	19,224	12,981	11,144	13,838	15,217	11,799	11,690
30%	7,261	7,420	11,788	16,316	22,239	14,380	9,967	10,386	12,633	15,061	11,365	10,109
40%	6,840	7,083	8,530	12,754	13,119	10,877	8,934	9,657	11,917	14,975	10,982	7,937
50%	6,469	6,841	7,046	9,466	10,687	8,947	8,506	8,854	11,464	14,826	10,435	6,523
60%	6,267	6,484	6,346	7,478	8,583	7,938	7,883	8,556	11,210	13,952	10,112	5,912
70%	5,953	6,011	5,726	6,652	7,554	7,200	7,260	8,112	10,879	13,306	9,418	5,018
80%	5,619	5,391	5,396	6,065	6,464	6,605	6,923	7,508	10,571	12,113	8,876	4,664
90%	4,833	5,142	4,928	4,974	4,990	5,473	6,502	7,075	9,893	11,391	8,188	4,226
Long Term												
Full Simulation Period[a]	6,790	7,729	12,098	15,894	18,839	14,637	10,434	9,644	12,013	13,822	10,351	7,950
Water Year Types[b]												
Wet (32%)	7,308	10,008	21,440	29,324	32,519	25,319	14,938	11,278	11,802	14,095	11,122	12,200
Above Normal (15%)	6,804	8,325	9,973	16,431	24,495	16,507	9,924	10,087	12,682	14,723	11,150	8,873
Below Normal (17%)	6,859	6,412	8,767	9,704	12,330	8,501	8,180	8,171	11,896	13,391	10,379	5,491
Dry (22%)	6,344	6,620	7,053	7,253	8,700	8,282	7,820	9,092	12,467	14,289	9,923	5,012
Critical (15%)	6,241	5,395	5,436	6,441	6,344	6,313	7,737	8,212	11,256	12,128	8,495	5,094

Alternative 5A (ELT) minus No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-73	-1,368	2,451	1,322	956	1	3	89	853	33	156	-548
20%	-276	-1,838	220	210	0	1	1	566	850	95	384	-797
30%	-396	-2,168	-8	-8	-23	501	485	567	393	88	419	-578
40%	-368	-1,618	12	1,321	317	427	344	317	328	222	364	-1,103
50%	-279	-903	25	-3	0	4	86	247	166	703	123	-575
60%	-222	-539	19	-132	-10	0	-77	355	165	456	219	-256
70%	-221	-690	-57	0	-2	15	31	426	45	324	-102	-652
80%	-161	47	-21	106	-2	664	4	55	73	-247	-149	-347
90%	-63	0	0	13	-140	63	1	58	232	314	-336	-149
Long Term												
Full Simulation Period[a]	-183	-884	14	270	141	112	71	295	306	162	71	-437
Water Year Types[b]												
Wet (32%)	-339	-914	147	320	215	-1	-1	79	218	159	422	-253
Above Normal (15%)	-304	-1,006	-297	398	313	391	10	540	502	129	158	-797
Below Normal (17%)	234	-1,277	-58	600	94	137	19	176	592	113	401	-543
Dry (22%)	-335	-777	96	58	48	-3	208	542	468	548	-715	-522
Critical (15%)	16	-397	-5	-34	1	221	145	283	-278	-319	18	-226

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

C.56. Feather River Flow downstream of Thermalito

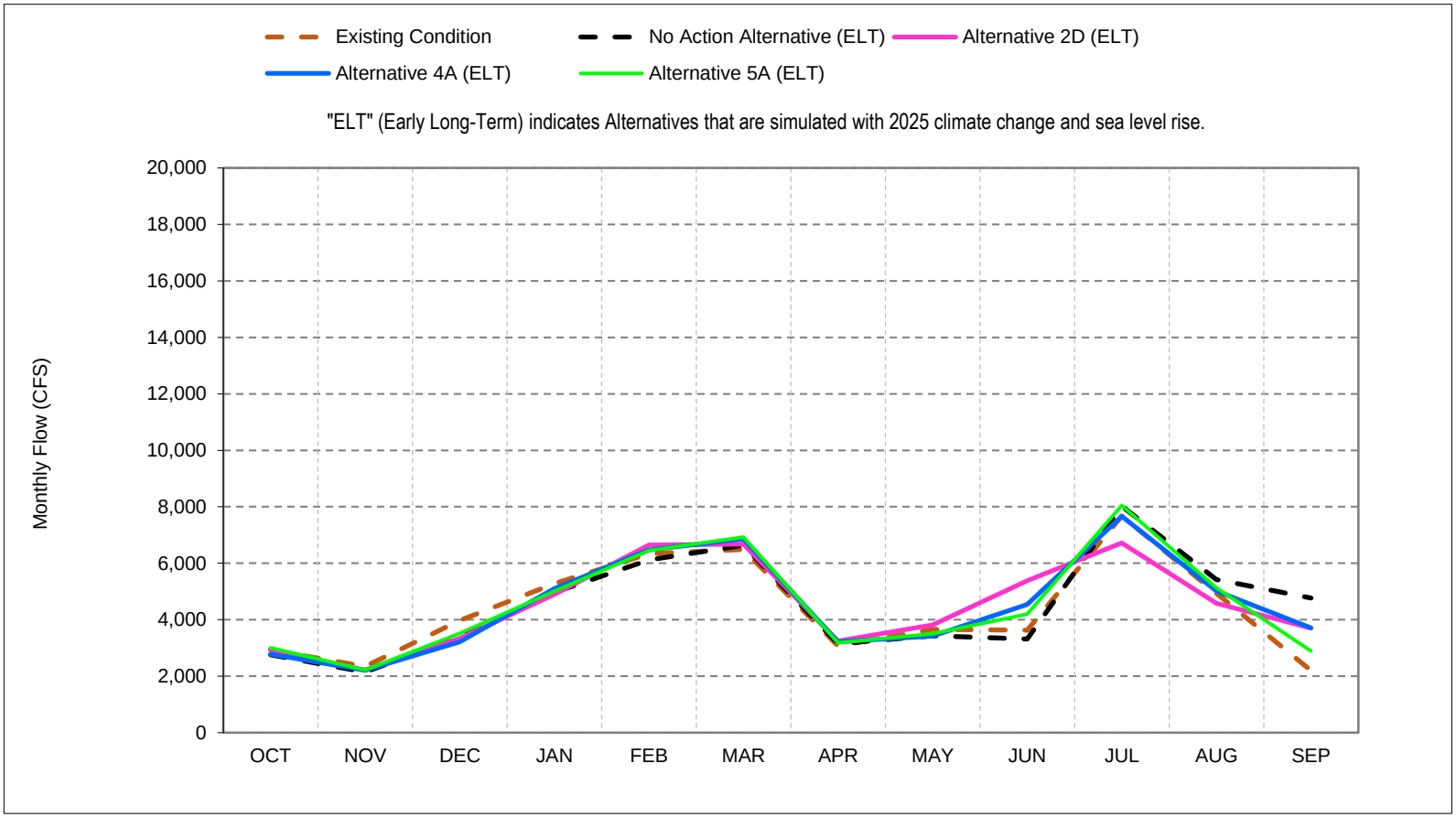
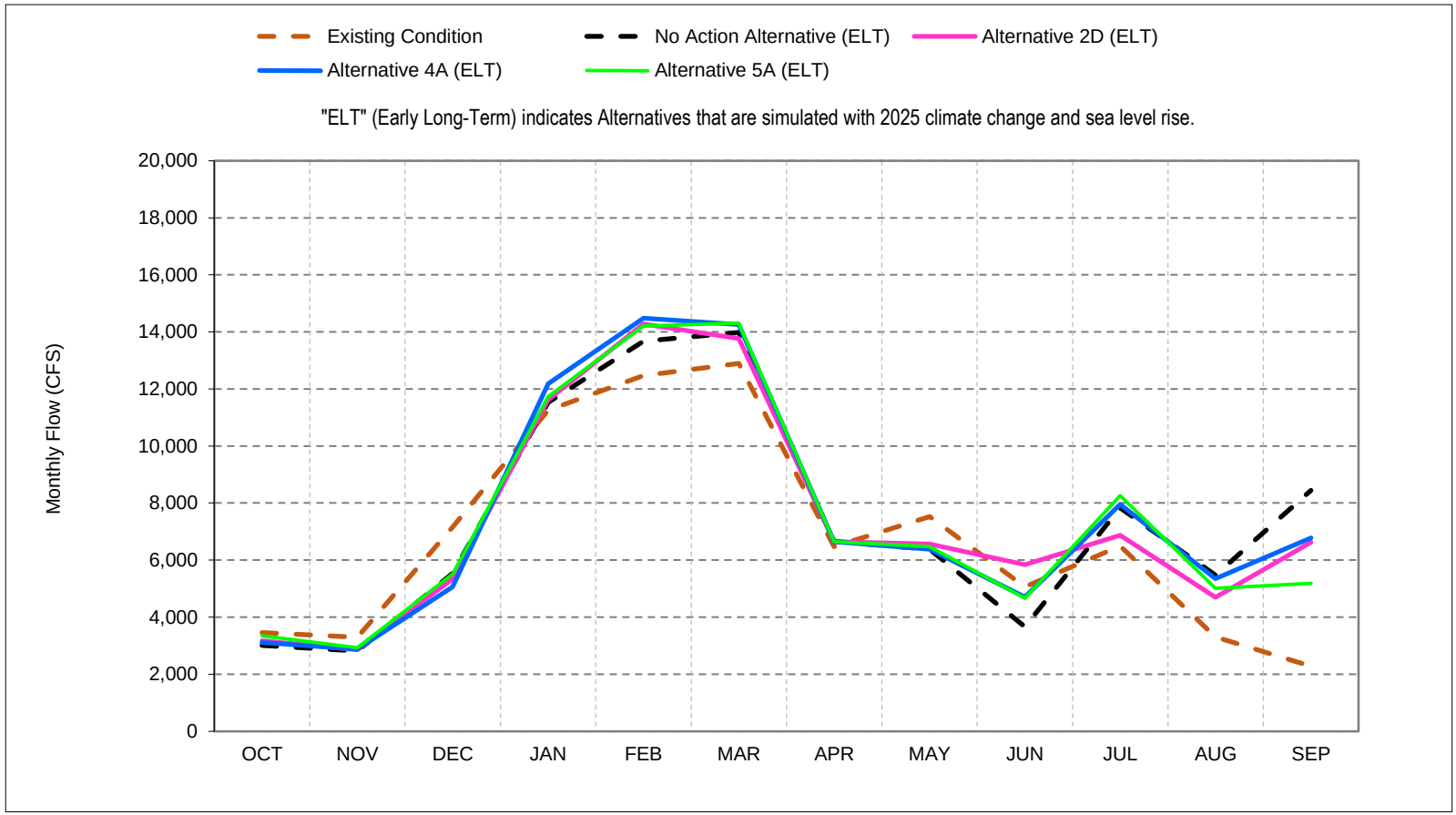
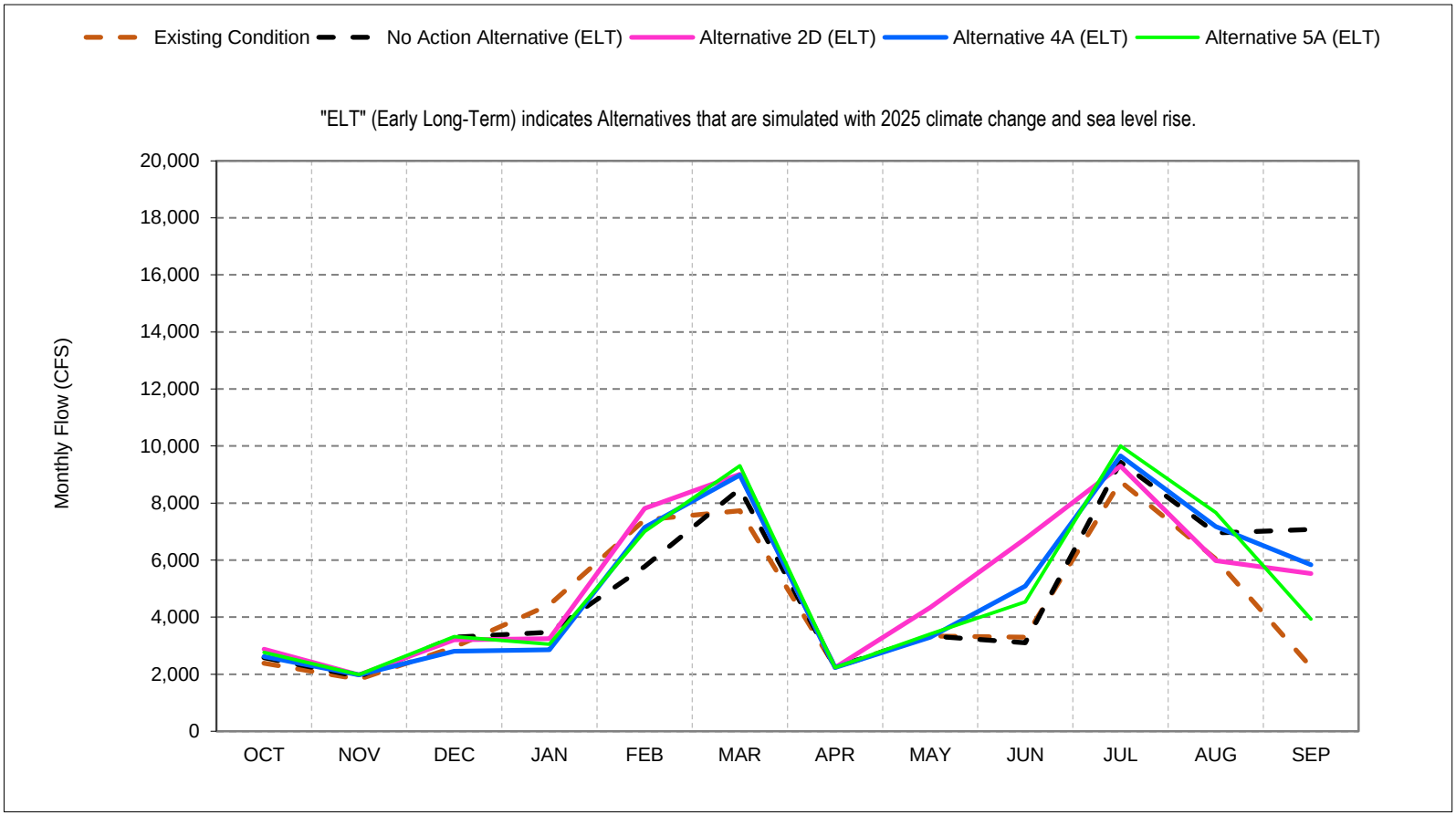


Figure C-56-1. Feather River d/s of Thermalito, Long-Term Average Flow



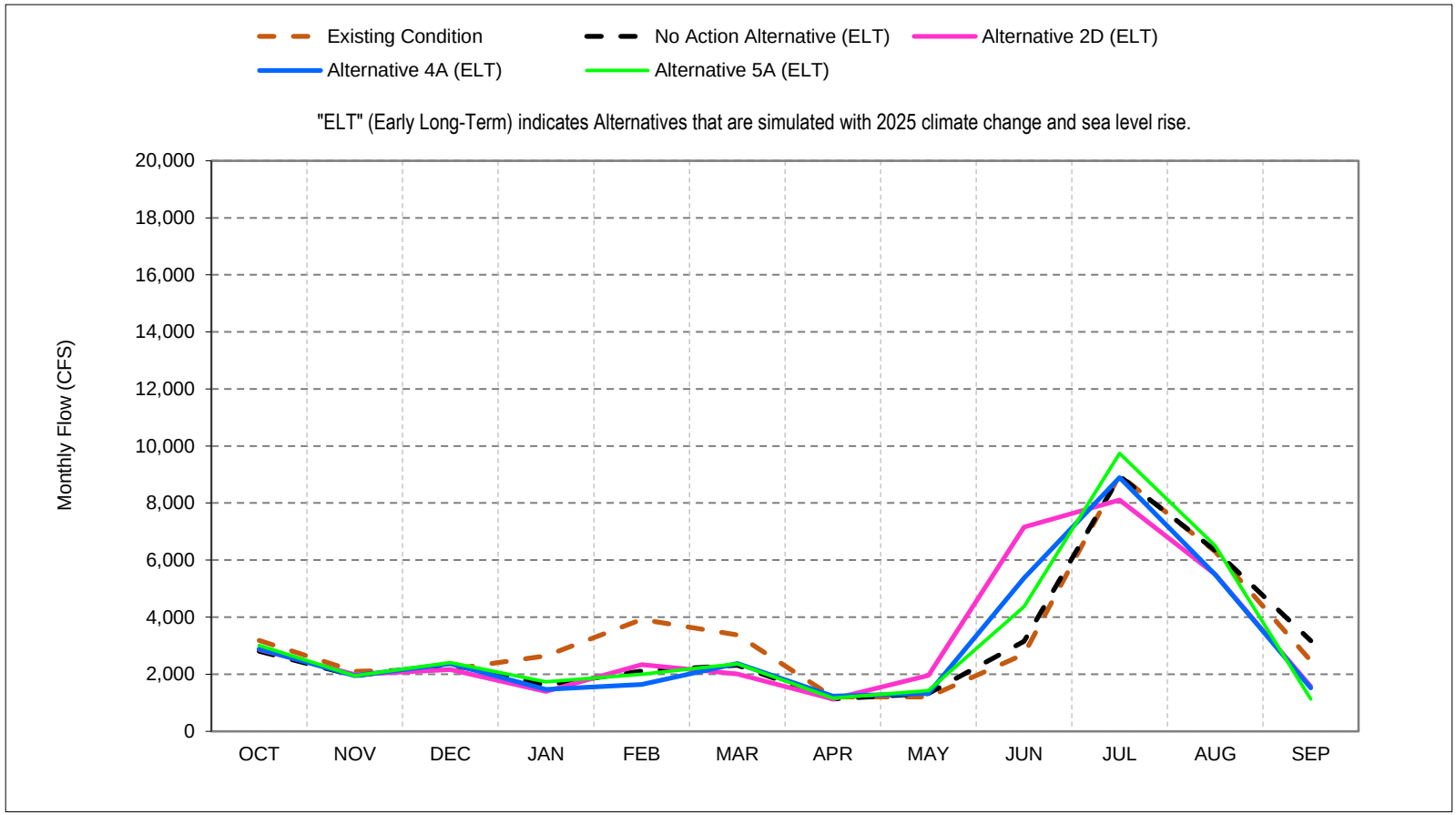
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-56-2. Feather River d/s of Thermalito, Wet Year* Average Flow



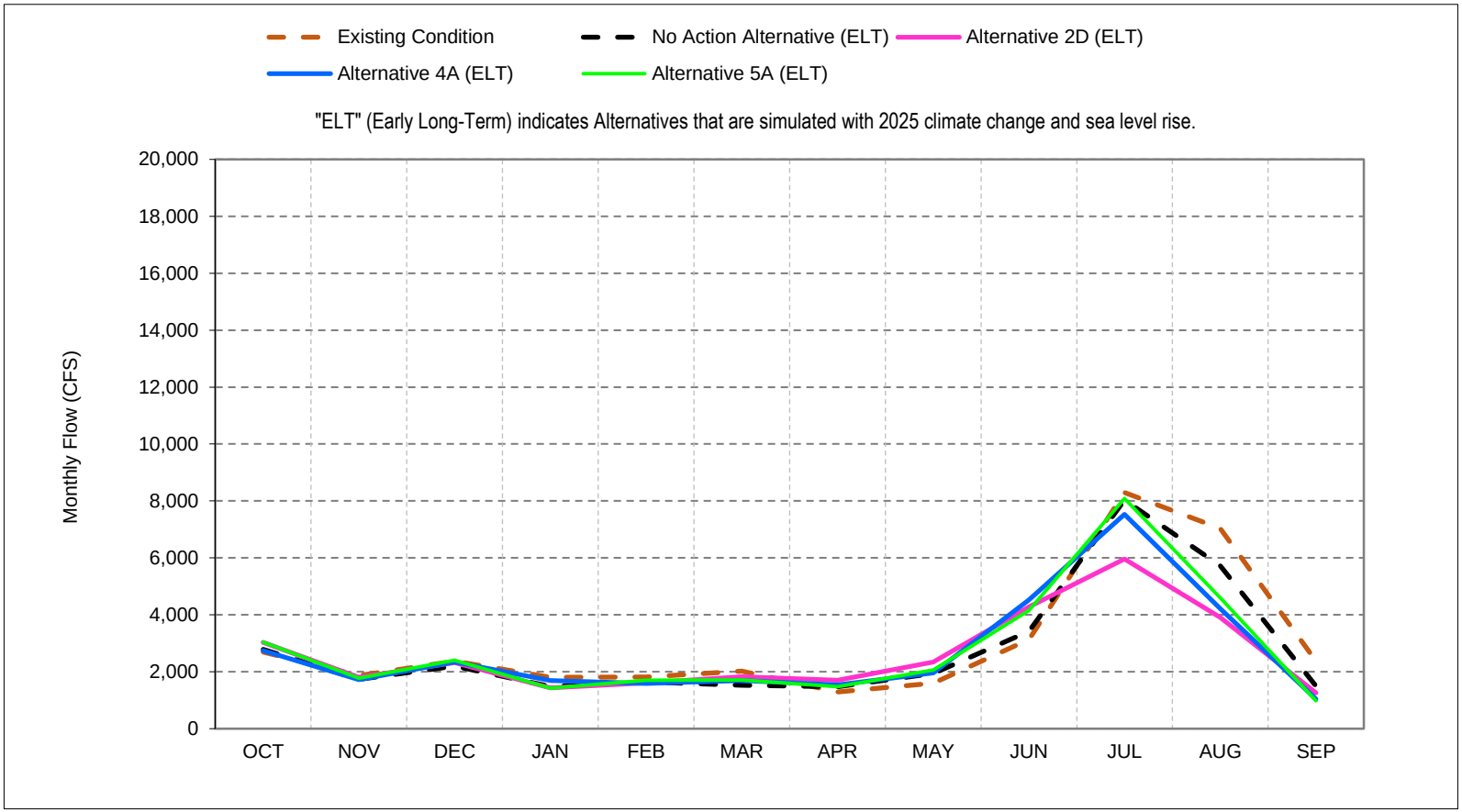
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-56-3. Feather River d/s of Thermalito, Above Normal Year* Average Flow



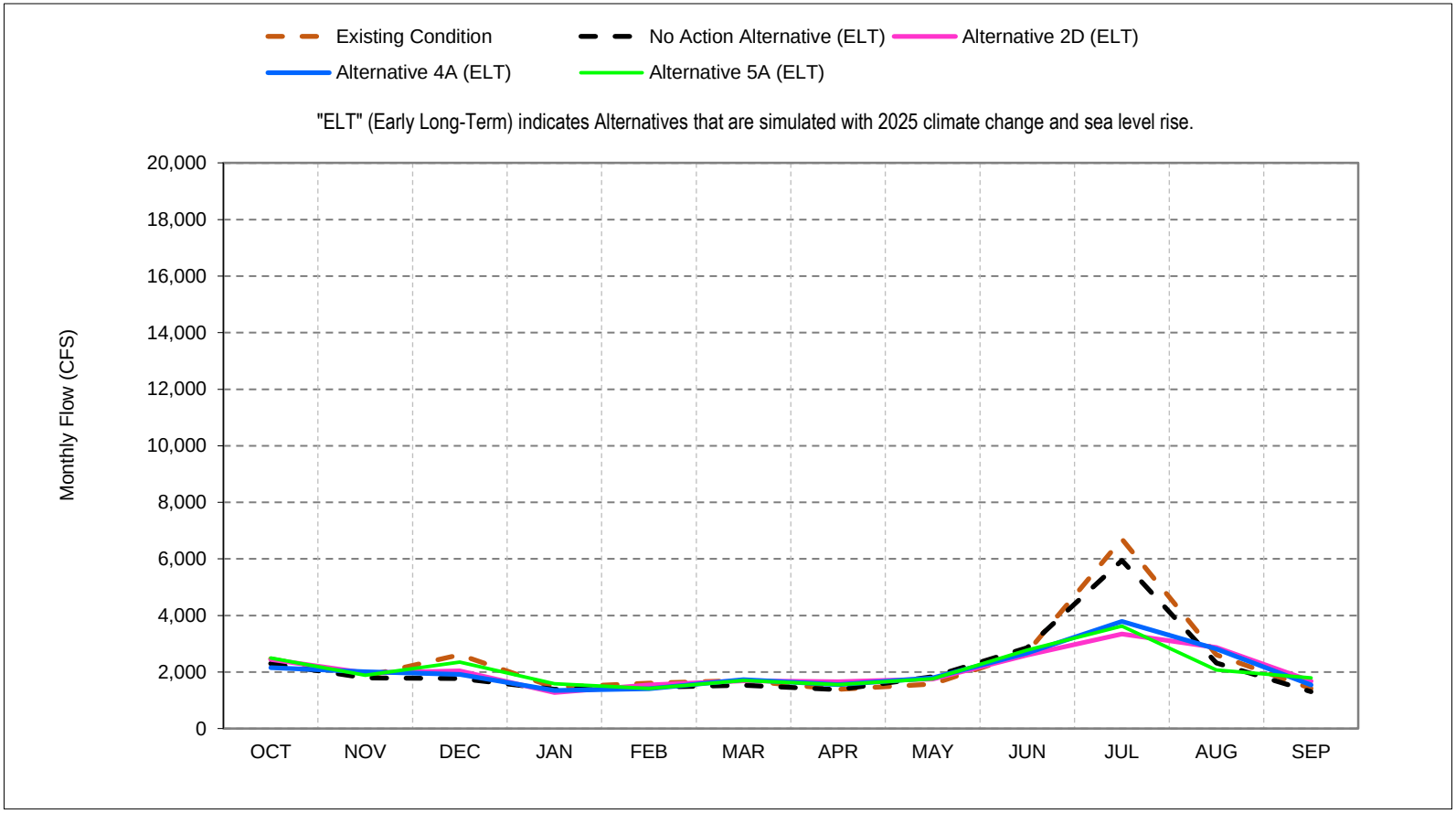
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-56-4. Feather River d/s of Thermalito, Below Normal Year* Average Flow



*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-56-5. Feather River d/s of Thermalito, Dry Year* Average Flow



*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-56-6. Feather River d/s of Thermalito, Critical Year* Average Flow

Table C-56-1. Feather River d/s of Thermalito, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	4,000	4,179	10,091	13,829	17,525	14,397	7,778	10,283	6,126	9,879	7,670	3,429
20%	4,000	2,500	4,250	7,711	12,078	10,140	3,835	5,812	4,449	9,393	7,097	3,187
30%	3,976	2,500	3,814	4,423	8,596	6,835	2,900	3,052	3,906	8,948	6,763	2,925
40%	3,621	2,247	3,064	3,091	4,711	5,308	1,774	2,022	3,570	8,700	6,341	2,680
50%	3,147	1,709	1,700	1,700	3,640	4,351	1,229	1,517	3,295	8,455	6,001	2,247
60%	2,491	1,700	1,700	1,700	1,700	2,771	1,000	1,139	2,985	8,181	4,870	1,595
70%	1,994	1,700	1,700	1,200	1,700	1,700	1,000	1,000	2,482	7,647	2,971	1,273
80%	1,700	1,200	1,356	1,175	1,200	1,283	1,000	1,000	1,982	6,536	2,061	1,000
90%	921	900	1,014	900	900	800	802	1,000	1,258	3,180	1,090	1,000
Long Term												
Full Simulation Period[a]	2,940	2,349	3,973	5,277	6,340	6,487	3,073	3,661	3,632	7,674	4,935	2,201
Water Year Types[b]												
Wet (32%)	3,456	3,292	7,157	11,257	12,466	12,895	6,472	7,528	5,062	6,490	3,308	2,280
Above Normal (15%)	2,386	1,824	2,951	4,434	7,411	7,733	2,251	3,340	3,301	8,757	6,042	2,253
Below Normal (17%)	3,183	2,101	2,176	2,640	3,916	3,373	1,205	1,205	2,707	8,981	6,295	2,466
Dry (22%)	2,688	1,859	2,364	1,798	1,817	2,017	1,286	1,591	3,134	8,294	7,036	2,366
Critical (15%)	2,472	1,854	2,609	1,459	1,610	1,697	1,389	1,574	2,695	6,703	2,613	1,421

No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	4,000	2,500	5,124	14,407	20,158	14,801	8,392	8,250	4,512	10,000	7,530	9,635
20%	4,000	2,500	3,945	4,192	11,827	10,765	3,825	5,438	4,061	9,911	7,222	8,541
30%	4,000	2,500	3,307	1,700	6,126	7,853	2,827	2,743	3,875	9,563	6,820	7,580
40%	3,800	2,500	2,027	1,700	2,825	5,316	1,864	2,437	3,694	9,130	6,538	6,751
50%	3,156	1,700	1,700	1,700	1,700	3,191	1,192	1,807	3,391	8,743	6,124	3,430
60%	1,981	1,700	1,700	1,700	1,700	1,700	1,000	1,420	2,986	8,474	5,653	2,733
70%	1,700	1,700	1,700	1,339	1,700	1,700	1,000	1,000	2,638	7,892	4,848	1,965
80%	1,371	1,200	1,200	900	1,200	1,006	1,000	1,000	2,119	6,987	3,926	1,115
90%	910	900	900	900	900	800	851	1,000	1,514	3,945	1,187	1,000
Long Term												
Full Simulation Period[a]	2,755	2,148	3,379	4,968	6,114	6,632	3,155	3,432	3,324	8,022	5,427	4,775
Water Year Types[b]												
Wet (32%)	3,007	2,814	5,533	11,526	13,673	13,980	6,652	6,380	3,660	7,828	5,468	8,446
Above Normal (15%)	2,577	1,917	3,303	3,473	5,780	8,501	2,240	3,341	3,108	9,435	6,949	7,079
Below Normal (17%)	2,801	1,950	2,344	1,619	2,106	2,317	1,132	1,326	3,156	8,940	6,339	3,176
Dry (22%)	2,778	1,726	2,192	1,481	1,636	1,521	1,470	1,932	3,417	8,031	5,717	1,491
Critical (15%)	2,296	1,797	1,776	1,394	1,467	1,540	1,383	1,839	2,864	5,947	2,320	1,309

No Action Alternative (ELT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	**-1,679**	**-4,967**	578	2,632	404	614	**-2,033**	**-1,615**	121	**-141**	6,206
20%	0	0	**-304**	**-3,520**	**-251**	626	**-11**	**-374**	**-388**	518	125	5,353
30%	24	0	**-507**	**-2,723**	**-2,471**	1,019	**-73**	**-309**	**-31**	615	57	4,655
40%	179	253	**-1,038**	**-1,391**	**-1,886**	8	90	415	124	430	197	4,071
50%	8	**-9**	**0**	**0**	**-1,940**	**-1,159**	**-38**	290	96	288	123	1,184
60%	**-510**	**0**	0	0	0	**-1,071**	0	281	1	293	783	1,138
70%	**-294**	0	**0**	139	0	**0**	0	0	156	245	1,877	692
80%	**-329**	**0**	**-156**	**-275**	0	**-276**	0	**0**	137	452	1,865	115
90%	**-11**	**0**	**-114**	**0**	0	**0**	50	0	256	765	97	0
Long Term												
Full Simulation Period[a]	**-186**	**-201**	**-594**	**-309**	**-226**	144	82	**-230**	**-309**	348	493	2,574
Water Year Types[b]												
Wet (32%)	**-449**	**-478**	**-1,624**	268	1,207	1,085	179	**-1,148**	**-1,401**	1,337	2,160	6,165
Above Normal (15%)	191	93	352	**-961**	**-1,631**	769	**-11**	1	**-193**	678	907	4,826
Below Normal (17%)	**-382**	**-151**	168	**-1,021**	**-1,810**	**-1,056**	**-73**	121	449	**-41**	44	710
Dry (22%)	90	**-133**	**-172**	**-317**	**-180**	**-496**	184	341	284	**-263**	**-1,319**	**-875**
Critical (15%)	**-176**	**-57**	**-832**	**-65**	**-144**	**-157**	**-7**	265	169	**-755**	**-293**	**-112**

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-56-2. Feather River d/s of Thermalito, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,000	4,179	10,091	13,829	17,525	14,397	7,778	10,283	6,126	9,879	7,670	3,429
20%	4,000	2,500	4,250	7,711	12,078	10,140	3,835	5,812	4,449	9,393	7,097	3,187
30%	3,976	2,500	3,814	4,423	8,596	6,835	2,900	3,052	3,906	8,948	6,763	2,925
40%	3,621	2,247	3,064	3,091	4,711	5,308	1,774	2,022	3,570	8,700	6,341	2,680
50%	3,147	1,709	1,700	1,700	3,640	4,351	1,229	1,517	3,295	8,455	6,001	2,247
60%	2,491	1,700	1,700	1,700	1,700	2,771	1,000	1,139	2,985	8,181	4,870	1,595
70%	1,994	1,700	1,700	1,200	1,700	1,700	1,000	1,000	2,482	7,647	2,971	1,273
80%	1,700	1,200	1,356	1,175	1,200	1,283	1,000	1,000	1,982	6,536	2,061	1,000
90%	921	900	1,014	900	900	800	802	1,000	1,258	3,180	1,090	1,000
Long Term												
Full Simulation Period[a]	2,940	2,349	3,973	5,277	6,340	6,487	3,073	3,661	3,632	7,674	4,935	2,201
Water Year Types[b]												
Wet (32%)	3,456	3,292	7,157	11,257	12,466	12,895	6,472	7,528	5,062	6,490	3,308	2,280
Above Normal (15%)	2,386	1,824	2,951	4,434	7,411	7,733	2,251	3,340	3,301	8,757	6,042	2,253
Below Normal (17%)	3,183	2,101	2,176	2,640	3,916	3,373	1,205	1,205	2,707	8,981	6,295	2,466
Dry (22%)	2,688	1,859	2,364	1,798	1,817	2,017	1,286	1,591	3,134	8,294	7,036	2,366
Critical (15%)	2,472	1,854	2,609	1,459	1,610	1,697	1,389	1,574	2,695	6,703	2,613	1,421

Alternative 2D (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,000	2,500	4,965	13,923	20,347	14,789	8,389	8,689	10,378	10,000	8,771	8,322
20%	4,000	2,500	4,285	5,022	13,390	10,169	3,889	6,356	8,991	10,000	7,000	6,456
30%	4,000	2,500	2,868	2,095	8,457	7,843	2,947	3,440	7,392	9,360	5,192	5,562
40%	4,000	2,500	2,030	1,700	4,570	5,558	2,107	2,609	5,516	8,238	4,470	3,852
50%	4,000	2,500	1,700	1,700	1,700	3,631	1,698	2,347	4,741	7,015	4,114	2,661
60%	2,298	1,700	1,700	1,700	1,700	1,971	1,000	1,918	3,402	5,828	3,589	1,886
70%	1,700	1,700	1,700	1,200	1,700	1,700	1,000	1,406	2,751	5,057	3,078	1,309
80%	1,482	1,246	1,310	900	1,200	1,467	1,000	1,000	2,352	3,630	2,485	1,000
90%	1,073	930	930	900	900	838	1,000	1,000	1,835	2,745	1,488	1,000
Long Term												
Full Simulation Period[a]	2,941	2,218	3,339	4,900	6,646	6,674	3,243	3,817	5,379	6,719	4,580	3,699
Water Year Types[b]												
Wet (32%)	3,177	2,855	5,338	11,621	14,277	13,769	6,643	6,561	5,839	6,871	4,697	6,623
Above Normal (15%)	2,875	1,982	3,207	3,249	7,814	9,012	2,233	4,340	6,746	9,295	5,980	5,526
Below Normal (17%)	2,868	1,987	2,164	1,393	2,332	2,006	1,131	1,952	7,153	8,104	5,502	1,565
Dry (22%)	3,033	1,798	2,321	1,434	1,600	1,825	1,703	2,334	4,279	5,955	3,902	1,259
Critical (15%)	2,445	1,972	2,038	1,278	1,549	1,686	1,657	1,751	2,597	3,346	2,868	1,684

Alternative 2D (ELT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	-1,679	-5,126	93	2,822	393	611	-1,594	4,251	121	1,100	4,893
20%	0	0	36	-2,689	1,312	29	54	544	4,542	607	-97	3,269
30%	24	0	-947	-2,328	-140	1,008	47	388	3,486	412	-1,571	2,637
40%	379	253	-1,034	-1,391	-141	250	333	587	1,945	-462	-1,871	1,172
50%	853	791	0	0	-1,940	-719	468	831	1,445	-1,441	-1,887	414
60%	-193	0	0	0	0	-800	0	779	417	-2,353	-1,281	291
70%	-294	0	0	0	0	0	0	406	269	-2,591	107	36
80%	-218	45	-45	-275	0	185	0	0	370	-2,906	424	0
90%	152	30	-84	0	0	38	198	0	577	-435	397	0
Long Term												
Full Simulation Period[a]	1	-131	-634	-377	306	187	170	156	1,747	-955	-355	1,498
Water Year Types[b]												
Wet (32%)	-280	-437	-1,819	363	1,811	874	171	-967	777	381	1,389	4,343
Above Normal (15%)	488	158	256	-1,184	403	1,279	-18	1,000	3,445	538	-62	3,273
Below Normal (17%)	-315	-115	-11	-1,247	-1,584	-1,367	-74	747	4,447	-877	-792	-901
Dry (22%)	345	-62	-42	-365	-216	-192	417	743	1,145	-2,339	-3,134	-1,107
Critical (15%)	-27	118	-571	-181	-62	-11	268	177	-98	-3,357	255	264

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-56-3. Feather River d/s of Thermalito, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,000	4,179	10,091	13,829	17,525	14,397	7,778	10,283	6,126	9,879	7,670	3,429
20%	4,000	2,500	4,250	7,711	12,078	10,140	3,835	5,812	4,449	9,393	7,097	3,187
30%	3,976	2,500	3,814	4,423	8,596	6,835	2,900	3,052	3,906	8,948	6,763	2,925
40%	3,621	2,247	3,064	3,091	4,711	5,308	1,774	2,022	3,570	8,700	6,341	2,680
50%	3,147	1,709	1,700	1,700	3,640	4,351	1,229	1,517	3,295	8,455	6,001	2,247
60%	2,491	1,700	1,700	1,700	1,700	2,771	1,000	1,139	2,985	8,181	4,870	1,595
70%	1,994	1,700	1,700	1,200	1,700	1,700	1,000	1,000	2,482	7,647	2,971	1,273
80%	1,700	1,200	1,356	1,175	1,200	1,283	1,000	1,000	1,982	6,536	2,061	1,000
90%	921	900	1,014	900	900	800	802	1,000	1,258	3,180	1,090	1,000
Long Term												
Full Simulation Period[a]	2,940	2,349	3,973	5,277	6,340	6,487	3,073	3,661	3,632	7,674	4,935	2,201
Water Year Types[b]												
Wet (32%)	3,456	3,292	7,157	11,257	12,466	12,895	6,472	7,528	5,062	6,490	3,308	2,280
Above Normal (15%)	2,386	1,824	2,951	4,434	7,411	7,733	2,251	3,340	3,301	8,757	6,042	2,253
Below Normal (17%)	3,183	2,101	2,176	2,640	3,916	3,373	1,205	1,205	2,707	8,981	6,295	2,466
Dry (22%)	2,688	1,859	2,364	1,798	1,817	2,017	1,286	1,591	3,134	8,294	7,036	2,366
Critical (15%)	2,472	1,854	2,609	1,459	1,610	1,697	1,389	1,574	2,695	6,703	2,613	1,421

Alternative 4A (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,000	2,500	5,223	14,217	20,349	14,871	8,389	8,243	7,511	10,000	9,014	8,737
20%	4,000	2,500	4,332	6,418	12,408	11,040	3,699	5,413	6,507	10,000	7,511	6,051
30%	4,000	2,500	2,786	2,565	8,149	8,051	2,949	2,766	6,039	10,000	5,978	5,648
40%	4,000	2,500	1,835	1,700	3,662	5,691	2,056	2,436	5,176	9,917	5,254	4,206
50%	2,970	2,062	1,700	1,700	1,700	3,750	1,346	1,838	4,432	8,306	4,505	2,569
60%	1,940	1,700	1,700	1,700	1,700	1,990	1,031	1,351	3,601	7,666	4,096	1,464
70%	1,700	1,700	1,700	1,624	1,700	1,700	1,000	1,013	3,076	7,224	3,679	1,111
80%	1,338	1,200	1,303	1,200	1,200	1,433	1,000	1,000	2,530	4,396	3,082	1,000
90%	1,038	900	930	900	900	841	1,000	1,000	1,802	3,083	1,706	1,000
Long Term												
Full Simulation Period[a]	2,782	2,205	3,214	5,102	6,474	6,865	3,212	3,422	4,538	7,659	5,022	3,717
Water Year Types[b]												
Wet (32%)	3,112	2,872	5,066	12,188	14,486	14,255	6,649	6,376	4,704	7,957	5,346	6,783
Above Normal (15%)	2,623	1,983	2,810	2,857	7,146	8,979	2,238	3,303	5,094	9,653	7,179	5,832
Below Normal (17%)	2,884	1,950	2,363	1,467	1,643	2,379	1,230	1,322	5,366	8,891	5,494	1,517
Dry (22%)	2,745	1,716	2,333	1,690	1,587	1,692	1,538	1,951	4,523	7,524	4,214	1,037
Critical (15%)	2,159	2,013	1,921	1,352	1,407	1,732	1,560	1,795	2,678	3,786	2,823	1,545

Alternative 4A (ELT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	-1,679	-4,868	387	2,824	474	611	-2,039	1,384	121	1,344	5,308
20%	0	0	82	-1,293	330	900	-136	-399	2,058	607	414	2,864
30%	24	0	-1,029	-1,858	-447	1,217	49	-286	2,133	1,052	-785	2,723
40%	379	253	-1,230	-1,391	-1,049	383	281	414	1,606	1,217	-1,087	1,526
50%	-177	353	0	0	-1,940	-601	116	322	1,137	-149	-1,496	323
60%	-551	0	0	0	0	-781	31	212	616	-515	-774	-131
70%	-294	0	0	424	0	0	0	13	594	-423	708	-162
80%	-362	0	-53	25	0	150	0	0	548	-2,140	1,021	0
90%	118	0	-84	0	0	41	198	0	544	-97	615	0
Long Term												
Full Simulation Period[a]	-159	-144	-759	-176	133	378	139	-240	905	-15	87	1,516
Water Year Types[b]												
Wet (32%)	-344	-420	-2,091	930	2,020	1,361	176	-1,152	-358	1,466	2,038	4,503
Above Normal (15%)	236	159	-141	-1,577	-265	1,246	-13	-37	1,792	896	1,137	3,580
Below Normal (17%)	-299	-151	188	-1,173	-2,273	-994	26	117	2,659	-89	-801	-949
Dry (22%)	57	-143	-31	-108	-229	-324	252	359	1,389	-770	-2,822	-1,329
Critical (15%)	-312	159	-687	-108	-204	35	171	220	-17	-2,917	209	124

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-56-4. Feather River d/s of Thermalito, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,000	4,179	10,091	13,829	17,525	14,397	7,778	10,283	6,126	9,879	7,670	3,429
20%	4,000	2,500	4,250	7,711	12,078	10,140	3,835	5,812	4,449	9,393	7,097	3,187
30%	3,976	2,500	3,814	4,423	8,596	6,835	2,900	3,052	3,906	8,948	6,763	2,925
40%	3,621	2,247	3,064	3,091	4,711	5,308	1,774	2,022	3,570	8,700	6,341	2,680
50%	3,147	1,709	1,700	1,700	3,640	4,351	1,229	1,517	3,295	8,455	6,001	2,247
60%	2,491	1,700	1,700	1,700	1,700	2,771	1,000	1,139	2,985	8,181	4,870	1,595
70%	1,994	1,700	1,700	1,200	1,700	1,700	1,000	1,000	2,482	7,647	2,971	1,273
80%	1,700	1,200	1,356	1,175	1,200	1,283	1,000	1,000	1,982	6,536	2,061	1,000
90%	921	900	1,014	900	900	800	802	1,000	1,258	3,180	1,090	1,000
Long Term												
Full Simulation Period[a]	2,940	2,349	3,973	5,277	6,340	6,487	3,073	3,661	3,632	7,674	4,935	2,201
Water Year Types[b]												
Wet (32%)	3,456	3,292	7,157	11,257	12,466	12,895	6,472	7,528	5,062	6,490	3,308	2,280
Above Normal (15%)	2,386	1,824	2,951	4,434	7,411	7,733	2,251	3,340	3,301	8,757	6,042	2,253
Below Normal (17%)	3,183	2,101	2,176	2,640	3,916	3,373	1,205	1,205	2,707	8,981	6,295	2,466
Dry (22%)	2,688	1,859	2,364	1,798	1,817	2,017	1,286	1,591	3,134	8,294	7,036	2,366
Critical (15%)	2,472	1,854	2,609	1,459	1,610	1,697	1,389	1,574	2,695	6,703	2,613	1,421

Alternative 5A (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,000	2,500	5,441	13,114	20,347	14,956	8,389	8,242	6,760	10,000	9,663	7,637
20%	4,000	2,500	4,493	5,993	11,816	11,065	3,713	5,422	5,786	10,000	8,513	4,064
30%	4,000	2,500	3,460	2,695	7,819	8,047	2,952	2,830	4,976	10,000	7,551	3,510
40%	4,000	2,500	2,710	1,700	4,338	6,265	1,944	2,559	4,279	10,000	5,754	2,636
50%	3,631	2,379	1,700	1,700	2,146	3,530	1,363	1,996	3,862	10,000	4,875	1,869
60%	2,980	1,700	1,700	1,700	1,700	2,040	1,000	1,503	3,559	10,000	3,288	1,312
70%	2,040	1,700	1,700	1,200	1,700	1,700	1,000	1,070	3,250	7,986	2,561	1,000
80%	1,700	1,200	1,200	900	1,200	1,640	1,000	1,000	2,873	4,980	1,912	1,000
90%	1,200	900	900	900	900	830	849	1,000	2,484	2,724	1,347	813
Long Term												
Full Simulation Period[a]	3,012	2,219	3,515	5,008	6,451	6,928	3,183	3,507	4,204	8,049	5,135	2,891
Water Year Types[b]												
Wet (32%)	3,347	2,932	5,512	11,735	14,208	14,310	6,648	6,475	4,660	8,258	5,009	5,189
Above Normal (15%)	2,771	1,992	3,320	3,054	7,006	9,305	2,237	3,414	4,538	10,000	7,674	3,936
Below Normal (17%)	3,004	1,950	2,408	1,728	1,994	2,370	1,155	1,426	4,364	9,744	6,506	1,134
Dry (22%)	3,038	1,772	2,401	1,421	1,701	1,709	1,467	2,063	4,151	8,082	4,598	977
Critical (15%)	2,498	1,884	2,349	1,592	1,417	1,704	1,561	1,761	2,778	3,620	2,072	1,791

Alternative 5A (ELT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	-1,679	-4,650	-715	2,822	559	611	-2,040	633	121	1,992	4,208
20%	0	0	243	-1,718	-262	925	-122	-391	1,337	607	1,416	877
30%	24	0	-354	-1,728	-777	1,212	52	-222	1,070	1,052	788	585
40%	379	253	-354	-1,391	-373	957	170	537	709	1,300	-588	-44
50%	483	670	0	0	-1,495	-821	134	479	567	1,545	-1,126	-378
60%	489	0	0	0	0	-731	0	364	574	1,819	-1,582	-283
70%	46	0	0	0	0	0	0	70	768	338	-410	-273
80%	0	0	-156	-275	0	358	0	0	891	-1,556	-149	0
90%	279	0	-114	0	0	30	48	0	1,226	-456	257	-187
Long Term												
Full Simulation Period[a]	72	-130	-458	-270	111	441	110	-155	572	375	200	690
Water Year Types[b]												
Wet (32%)	-109	-361	-1,645	477	1,742	1,415	175	-1,053	-401	1,768	1,701	2,909
Above Normal (15%)	384	168	369	-1,379	-405	1,572	-14	74	1,236	1,243	1,632	1,683
Below Normal (17%)	-179	-151	232	-912	-1,922	-1,003	-49	220	1,657	764	211	-1,332
Dry (22%)	350	-87	38	-377	-116	-308	181	472	1,017	-213	-2,439	-1,389
Critical (15%)	27	30	-259	133	-194	7	171	186	83	-3,083	-541	370

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-56-5. Feather River d/s of Thermalito, Monthly Flow

No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,000	2,500	5,124	14,407	20,158	14,801	8,392	8,250	4,512	10,000	7,530	9,635
20%	4,000	2,500	3,945	4,192	11,827	10,765	3,825	5,438	4,061	9,911	7,222	8,541
30%	4,000	2,500	3,307	1,700	6,126	7,853	2,827	2,743	3,875	9,563	6,820	7,580
40%	3,800	2,500	2,027	1,700	2,825	5,316	1,864	2,437	3,694	9,130	6,538	6,751
50%	3,156	1,700	1,700	1,700	1,700	3,191	1,192	1,807	3,391	8,743	6,124	3,430
60%	1,981	1,700	1,700	1,700	1,700	1,700	1,000	1,420	2,986	8,474	5,653	2,733
70%	1,700	1,700	1,700	1,339	1,700	1,700	1,000	1,000	2,638	7,892	4,848	1,965
80%	1,371	1,200	1,200	900	1,200	1,006	1,000	1,000	2,119	6,987	3,926	1,115
90%	910	900	900	900	900	800	851	1,000	1,514	3,945	1,187	1,000
Long Term												
Full Simulation Period[a]	2,755	2,148	3,379	4,968	6,114	6,632	3,155	3,432	3,324	8,022	5,427	4,775
Water Year Types[b]												
Wet (32%)	3,007	2,814	5,533	11,526	13,673	13,980	6,652	6,380	3,660	7,828	5,468	8,446
Above Normal (15%)	2,577	1,917	3,303	3,473	5,780	8,501	2,240	3,341	3,108	9,435	6,949	7,079
Below Normal (17%)	2,801	1,950	2,344	1,619	2,106	2,317	1,132	1,326	3,156	8,940	6,339	3,176
Dry (22%)	2,778	1,726	2,192	1,481	1,636	1,521	1,470	1,932	3,417	8,031	5,717	1,491
Critical (15%)	2,296	1,797	1,776	1,394	1,467	1,540	1,383	1,839	2,864	5,947	2,320	1,309

Alternative 2D (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,000	2,500	4,965	13,923	20,347	14,789	8,389	8,689	10,378	10,000	8,771	8,322
20%	4,000	2,500	4,285	5,022	13,390	10,169	3,889	6,356	8,991	10,000	7,000	6,456
30%	4,000	2,500	2,868	2,095	8,457	7,843	2,947	3,440	7,392	9,360	5,192	5,562
40%	4,000	2,500	2,030	1,700	4,570	5,558	2,107	2,609	5,516	8,238	4,470	3,852
50%	4,000	2,500	1,700	1,700	1,700	3,631	1,698	2,347	4,741	7,015	4,114	2,661
60%	2,298	1,700	1,700	1,700	1,700	1,971	1,000	1,918	3,402	5,828	3,589	1,886
70%	1,700	1,700	1,700	1,200	1,700	1,700	1,000	1,406	2,751	5,057	3,078	1,309
80%	1,482	1,246	1,310	900	1,200	1,467	1,000	1,000	2,352	3,630	2,485	1,000
90%	1,073	930	930	900	900	838	1,000	1,000	1,835	2,745	1,488	1,000
Long Term												
Full Simulation Period[a]	2,941	2,218	3,339	4,900	6,646	6,674	3,243	3,817	5,379	6,719	4,580	3,699
Water Year Types[b]												
Wet (32%)	3,177	2,855	5,338	11,621	14,277	13,769	6,643	6,561	5,839	6,871	4,697	6,623
Above Normal (15%)	2,875	1,982	3,207	3,249	7,814	9,012	2,233	4,340	6,746	9,295	5,980	5,526
Below Normal (17%)	2,868	1,987	2,164	1,393	2,332	2,006	1,131	1,952	7,153	8,104	5,502	1,565
Dry (22%)	3,033	1,798	2,321	1,434	1,600	1,825	1,703	2,334	4,279	5,955	3,902	1,259
Critical (15%)	2,445	1,972	2,038	1,278	1,549	1,686	1,657	1,751	2,597	3,346	2,868	1,684

Alternative 2D (ELT) minus No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	-159	-484	190	-12	-3	439	5,866	0	1,241	-1,314
20%	0	0	340	831	1,563	-596	65	918	4,931	89	-222	-2,084
30%	0	0	-439	395	2,331	-11	120	697	3,517	-203	-1,628	-2,018
40%	200	0	4	0	1,745	242	243	172	1,821	-892	-2,068	-2,899
50%	844	800	0	0	0	440	506	540	1,349	-1,728	-2,011	-769
60%	317	0	0	0	0	271	0	498	416	-2,646	-2,063	-847
70%	0	0	0	-139	0	0	0	406	113	-2,835	-1,770	-656
80%	111	46	110	0	0	461	0	0	233	-3,357	-1,441	-115
90%	163	30	30	0	0	38	149	0	321	-1,200	300	0
Long Term												
Full Simulation Period[a]	186	70	-40	-68	532	43	87	386	2,056	-1,303	-847	-1,076
Water Year Types[b]												
Wet (32%)	170	41	-196	95	604	-210	-8	181	2,179	-957	-771	-1,822
Above Normal (15%)	297	65	-96	-223	2,034	511	-7	998	3,638	-140	-969	-1,553
Below Normal (17%)	67	37	-179	-226	226	-311	-1	626	3,998	-836	-836	-1,611
Dry (22%)	255	71	129	-47	-36	304	233	402	862	-2,076	-1,815	-232
Critical (15%)	149	175	261	-116	82	146	275	-88	-268	-2,601	548	376

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-56-6. Feather River d/s of Thermalito, Monthly Flow

No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,000	2,500	5,124	14,407	20,158	14,801	8,392	8,250	4,512	10,000	7,530	9,635
20%	4,000	2,500	3,945	4,192	11,827	10,765	3,825	5,438	4,061	9,911	7,222	8,541
30%	4,000	2,500	3,307	1,700	6,126	7,853	2,827	2,743	3,875	9,563	6,820	7,580
40%	3,800	2,500	2,027	1,700	2,825	5,316	1,864	2,437	3,694	9,130	6,538	6,751
50%	3,156	1,700	1,700	1,700	1,700	3,191	1,192	1,807	3,391	8,743	6,124	3,430
60%	1,981	1,700	1,700	1,700	1,700	1,700	1,000	1,420	2,986	8,474	5,653	2,733
70%	1,700	1,700	1,700	1,339	1,700	1,700	1,000	1,000	2,638	7,892	4,848	1,965
80%	1,371	1,200	1,200	900	1,200	1,006	1,000	1,000	2,119	6,987	3,926	1,115
90%	910	900	900	900	900	800	851	1,000	1,514	3,945	1,187	1,000
Long Term												
Full Simulation Period[a]	2,755	2,148	3,379	4,968	6,114	6,632	3,155	3,432	3,324	8,022	5,427	4,775
Water Year Types[b]												
Wet (32%)	3,007	2,814	5,533	11,526	13,673	13,980	6,652	6,380	3,660	7,828	5,468	8,446
Above Normal (15%)	2,577	1,917	3,303	3,473	5,780	8,501	2,240	3,341	3,108	9,435	6,949	7,079
Below Normal (17%)	2,801	1,950	2,344	1,619	2,106	2,317	1,132	1,326	3,156	8,940	6,339	3,176
Dry (22%)	2,778	1,726	2,192	1,481	1,636	1,521	1,470	1,932	3,417	8,031	5,717	1,491
Critical (15%)	2,296	1,797	1,776	1,394	1,467	1,540	1,383	1,839	2,864	5,947	2,320	1,309

Alternative 4A (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,000	2,500	5,223	14,217	20,349	14,871	8,389	8,243	7,511	10,000	9,014	8,737
20%	4,000	2,500	4,332	6,418	12,408	11,040	3,699	5,413	6,507	10,000	7,511	6,051
30%	4,000	2,500	2,786	2,565	8,149	8,051	2,949	2,766	6,039	10,000	5,978	5,648
40%	4,000	2,500	1,835	1,700	3,662	5,691	2,056	2,436	5,176	9,917	5,254	4,206
50%	2,970	2,062	1,700	1,700	1,700	3,750	1,346	1,838	4,432	8,306	4,505	2,569
60%	1,940	1,700	1,700	1,700	1,700	1,990	1,031	1,351	3,601	7,666	4,096	1,464
70%	1,700	1,700	1,700	1,624	1,700	1,700	1,000	1,013	3,076	7,224	3,679	1,111
80%	1,338	1,200	1,303	1,200	1,200	1,433	1,000	1,000	2,530	4,396	3,082	1,000
90%	1,038	900	930	900	900	841	1,000	1,000	1,802	3,083	1,706	1,000
Long Term												
Full Simulation Period[a]	2,782	2,205	3,214	5,102	6,474	6,865	3,212	3,422	4,538	7,659	5,022	3,717
Water Year Types[b]												
Wet (32%)	3,112	2,872	5,066	12,188	14,486	14,255	6,649	6,376	4,704	7,957	5,346	6,783
Above Normal (15%)	2,623	1,983	2,810	2,857	7,146	8,979	2,238	3,303	5,094	9,653	7,179	5,832
Below Normal (17%)	2,884	1,950	2,363	1,467	1,643	2,379	1,230	1,322	5,366	8,891	5,494	1,517
Dry (22%)	2,745	1,716	2,333	1,690	1,587	1,692	1,538	1,951	4,523	7,524	4,214	1,037
Critical (15%)	2,159	2,013	1,921	1,352	1,407	1,732	1,560	1,795	2,678	3,786	2,823	1,545

Alternative 4A (ELT) minus No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	99	-190	192	70	-3	-7	2,999	0	1,485	-898
20%	0	0	386	2,227	581	275	-125	-25	2,446	89	289	-2,490
30%	0	0	-521	865	2,023	198	122	23	2,164	437	-842	-1,932
40%	200	0	-192	0	838	375	191	-1	1,482	786	-1,284	-2,545
50%	-185	362	0	0	0	558	154	32	1,040	-437	-1,619	-861
60%	-41	0	0	0	0	290	31	-69	615	-808	-1,556	-1,269
70%	0	0	0	286	0	0	0	13	438	-668	-1,169	-854
80%	-33	0	103	300	0	426	0	0	411	-2,591	-843	-115
90%	129	0	30	0	0	41	149	0	288	-862	518	0
Long Term												
Full Simulation Period[a]	27	57	-165	133	359	234	56	-10	1,214	-363	-406	-1,058
Water Year Types[b]												
Wet (32%)	106	58	-467	662	813	276	-3	-4	1,043	129	-122	-1,663
Above Normal (15%)	45	65	-493	-616	1,366	477	-2	-38	1,985	218	230	-1,246
Below Normal (17%)	82	0	20	-152	-463	62	99	-4	2,210	-48	-845	-1,659
Dry (22%)	-33	-10	141	209	-49	172	67	19	1,106	-507	-1,503	-454
Critical (15%)	-137	216	145	-42	-60	192	178	-44	-186	-2,162	503	236

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-56-7. Feather River d/s of Thermalito, Monthly Flow

No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,000	2,500	5,124	14,407	20,158	14,801	8,392	8,250	4,512	10,000	7,530	9,635
20%	4,000	2,500	3,945	4,192	11,827	10,765	3,825	5,438	4,061	9,911	7,222	8,541
30%	4,000	2,500	3,307	1,700	6,126	7,853	2,827	2,743	3,875	9,563	6,820	7,580
40%	3,800	2,500	2,027	1,700	2,825	5,316	1,864	2,437	3,694	9,130	6,538	6,751
50%	3,156	1,700	1,700	1,700	1,700	3,191	1,192	1,807	3,391	8,743	6,124	3,430
60%	1,981	1,700	1,700	1,700	1,700	1,700	1,000	1,420	2,986	8,474	5,653	2,733
70%	1,700	1,700	1,700	1,339	1,700	1,700	1,000	1,000	2,638	7,892	4,848	1,965
80%	1,371	1,200	1,200	900	1,200	1,006	1,000	1,000	2,119	6,987	3,926	1,115
90%	910	900	900	900	900	800	851	1,000	1,514	3,945	1,187	1,000
Long Term												
Full Simulation Period[a]	2,755	2,148	3,379	4,968	6,114	6,632	3,155	3,432	3,324	8,022	5,427	4,775
Water Year Types[b]												
Wet (32%)	3,007	2,814	5,533	11,526	13,673	13,980	6,652	6,380	3,660	7,828	5,468	8,446
Above Normal (15%)	2,577	1,917	3,303	3,473	5,780	8,501	2,240	3,341	3,108	9,435	6,949	7,079
Below Normal (17%)	2,801	1,950	2,344	1,619	2,106	2,317	1,132	1,326	3,156	8,940	6,339	3,176
Dry (22%)	2,778	1,726	2,192	1,481	1,636	1,521	1,470	1,932	3,417	8,031	5,717	1,491
Critical (15%)	2,296	1,797	1,776	1,394	1,467	1,540	1,383	1,839	2,864	5,947	2,320	1,309

Alternative 5A (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,000	2,500	5,441	13,114	20,347	14,956	8,389	8,242	6,760	10,000	9,663	7,637
20%	4,000	2,500	4,493	5,993	11,816	11,065	3,713	5,422	5,786	10,000	8,513	4,064
30%	4,000	2,500	3,460	2,695	7,819	8,047	2,952	2,830	4,976	10,000	7,551	3,510
40%	4,000	2,500	2,710	1,700	4,338	6,265	1,944	2,559	4,279	10,000	5,754	2,636
50%	3,631	2,379	1,700	1,700	2,146	3,530	1,363	1,996	3,862	10,000	4,875	1,869
60%	2,980	1,700	1,700	1,700	1,700	2,040	1,000	1,503	3,559	10,000	3,288	1,312
70%	2,040	1,700	1,700	1,200	1,700	1,700	1,000	1,070	3,250	7,986	2,561	1,000
80%	1,700	1,200	1,200	900	1,200	1,640	1,000	1,000	2,873	4,980	1,912	1,000
90%	1,200	900	900	900	900	830	849	1,000	2,484	2,724	1,347	813
Long Term												
Full Simulation Period[a]	3,012	2,219	3,515	5,008	6,451	6,928	3,183	3,507	4,204	8,049	5,135	2,891
Water Year Types[b]												
Wet (32%)	3,347	2,932	5,512	11,735	14,208	14,310	6,648	6,475	4,660	8,258	5,009	5,189
Above Normal (15%)	2,771	1,992	3,320	3,054	7,006	9,305	2,237	3,414	4,538	10,000	7,674	3,936
Below Normal (17%)	3,004	1,950	2,408	1,728	1,994	2,370	1,155	1,426	4,364	9,744	6,506	1,134
Dry (22%)	3,038	1,772	2,401	1,421	1,701	1,709	1,467	2,063	4,151	8,082	4,598	977
Critical (15%)	2,498	1,884	2,349	1,592	1,417	1,704	1,561	1,761	2,778	3,620	2,072	1,791

Alternative 5A (ELT) minus No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	317	**-1,293**	189	155	**-3**	**-8**	2,248	0	2,133	**-1,999**
20%	0	0	547	1,801	**-11**	300	**-111**	**-16**	1,725	89	1,291	**-4,476**
30%	0	0	153	995	1,693	193	125	87	1,101	437	730	**-4,070**
40%	200	0	683	**0**	1,514	949	80	122	585	870	**-784**	**-4,115**
50%	475	679	0	0	446	338	171	189	471	1,257	**-1,249**	**-1,561**
60%	999	0	0	0	0	340	**0**	83	573	1,526	**-2,365**	**-1,421**
70%	340	0	0	**-139**	0	0	0	70	611	94	**-2,287**	**-965**
80%	329	0	**0**	0	0	634	**0**	0	754	**-2,008**	**-2,013**	**-115**
90%	290	0	0	0	**0**	30	**-2**	**0**	970	**-1,221**	160	**-187**
Long Term												
Full Simulation Period[a]	258	71	136	39	337	297	28	75	881	27	**-293**	**-1,883**
Water Year Types[b]												
Wet (32%)	340	117	**-22**	209	535	330	**-4**	95	1,000	430	**-459**	**-3,257**
Above Normal (15%)	193	74	17	**-419**	1,226	803	**-3**	73	1,429	565	725	**-3,143**
Below Normal (17%)	203	0	64	109	**-112**	53	24	100	1,208	805	167	**-2,041**
Dry (22%)	261	46	209	**-60**	65	188	**-4**	131	734	50	**-1,120**	**-514**
Critical (15%)	202	87	573	198	**-50**	164	178	**-78**	**-87**	**-2,327**	**-247**	482

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

C.57. Fremont Weir Spills

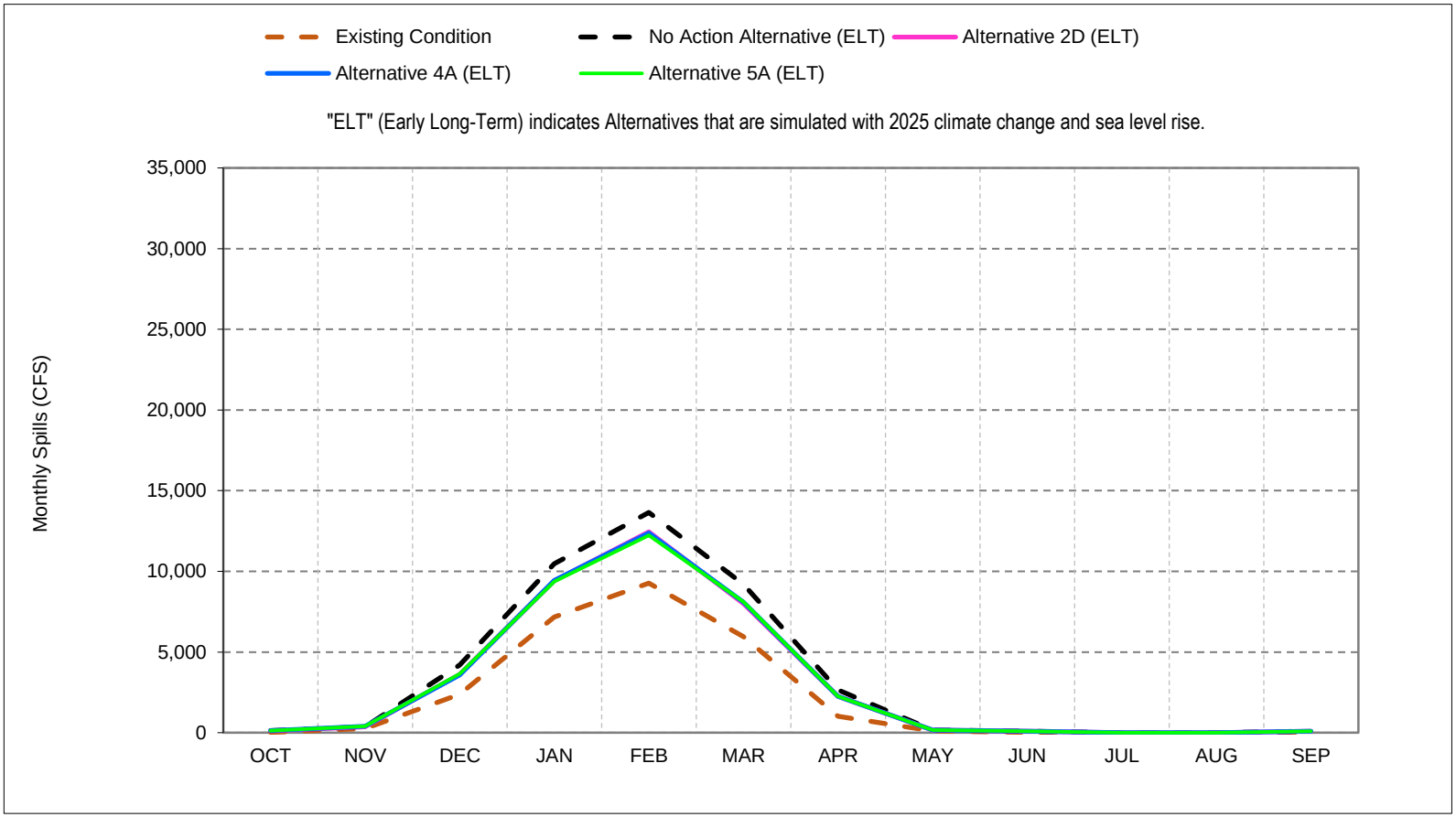
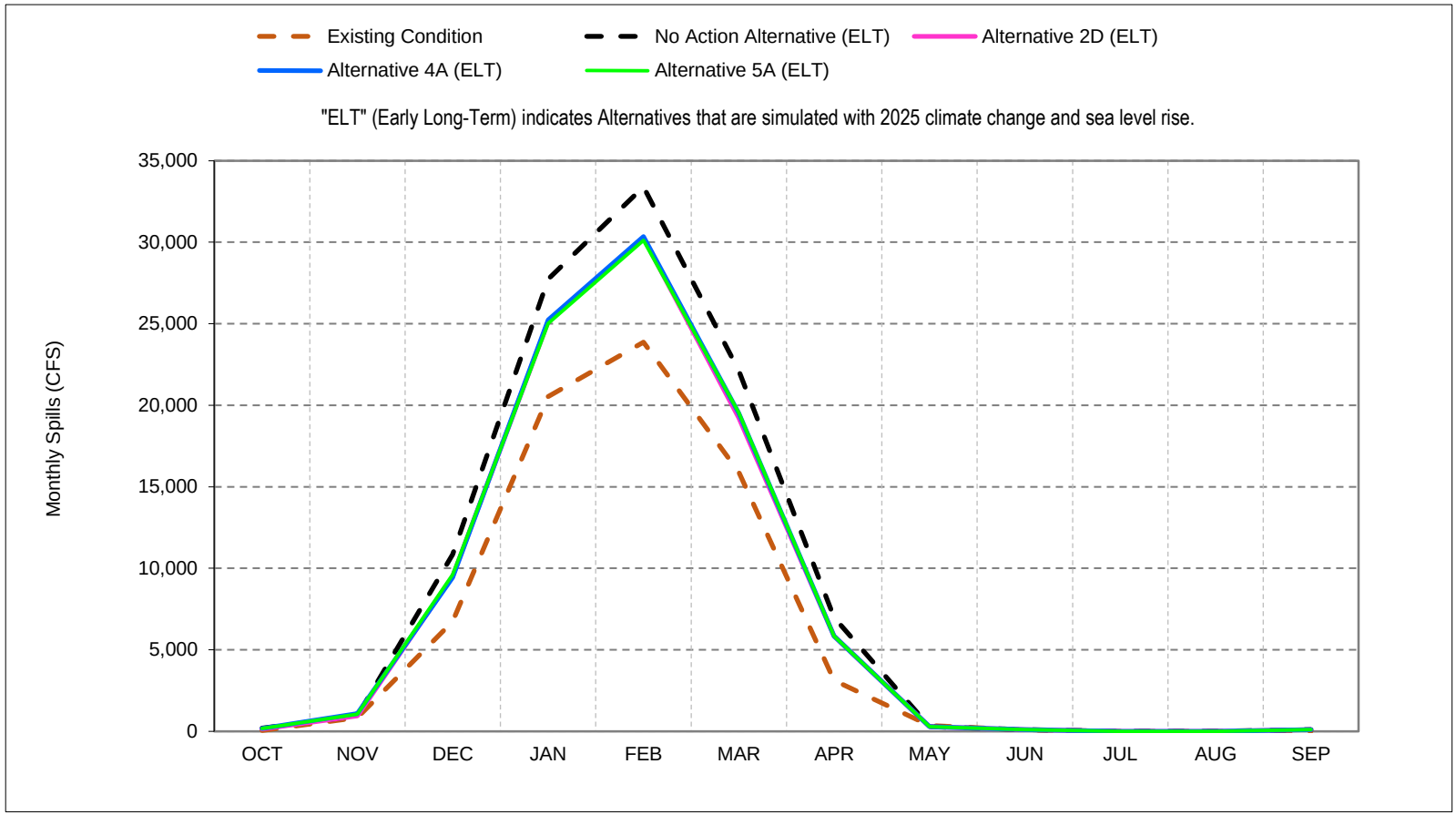
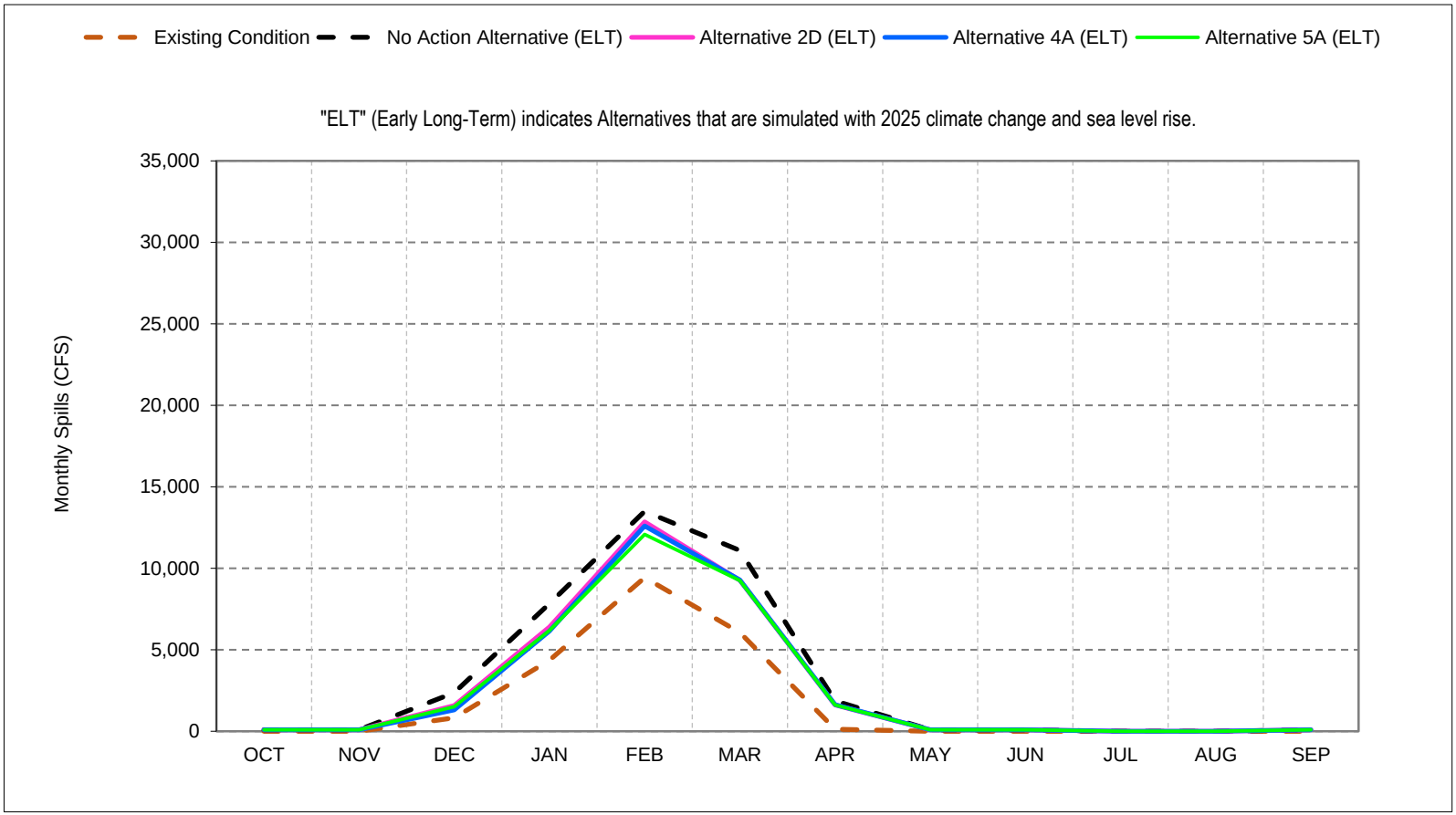


Figure C-57-1. Fremont Weir, Long-Term Average Spills



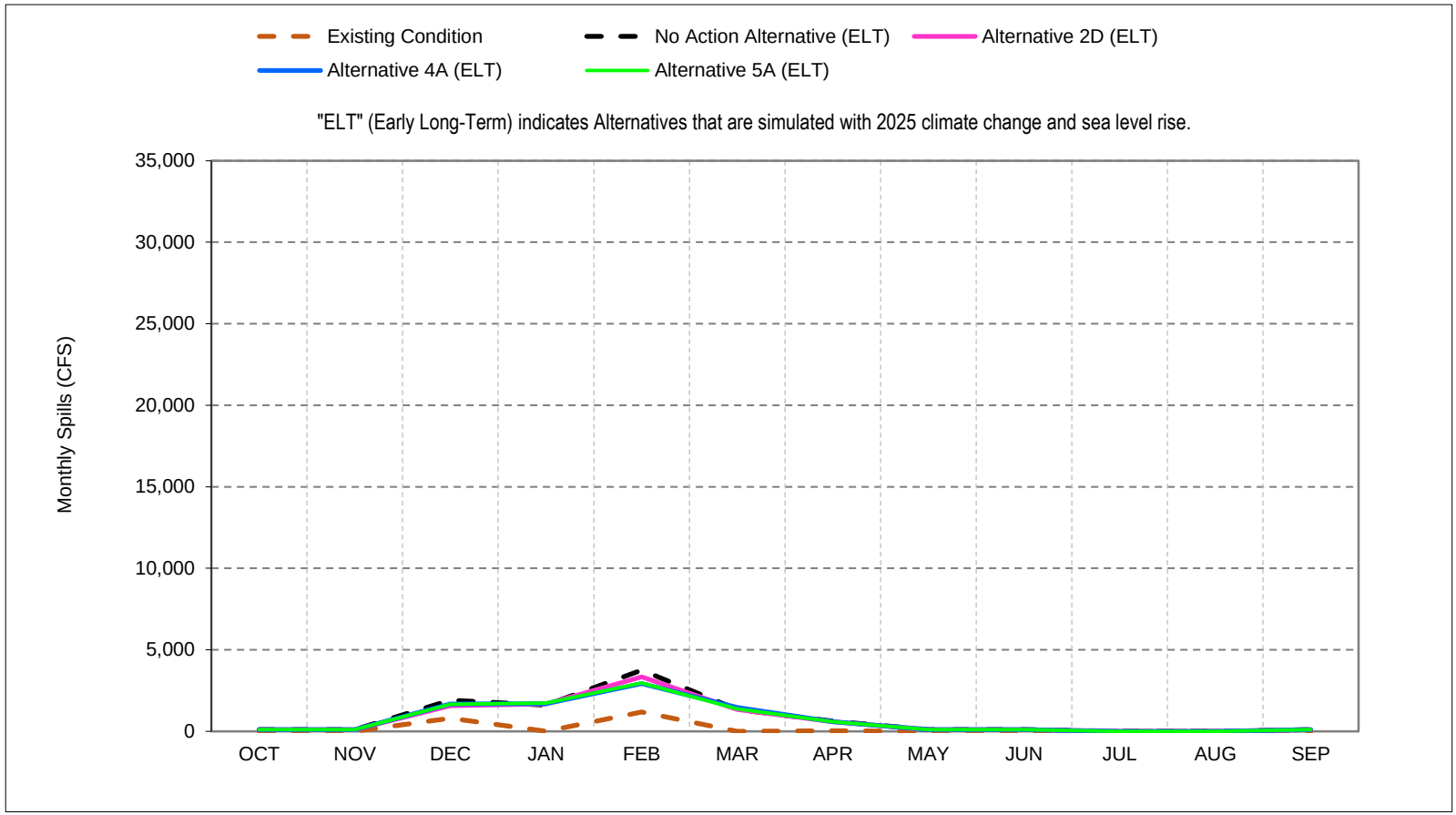
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-57-2. Fremont Weir, Wet Year* Average Spills



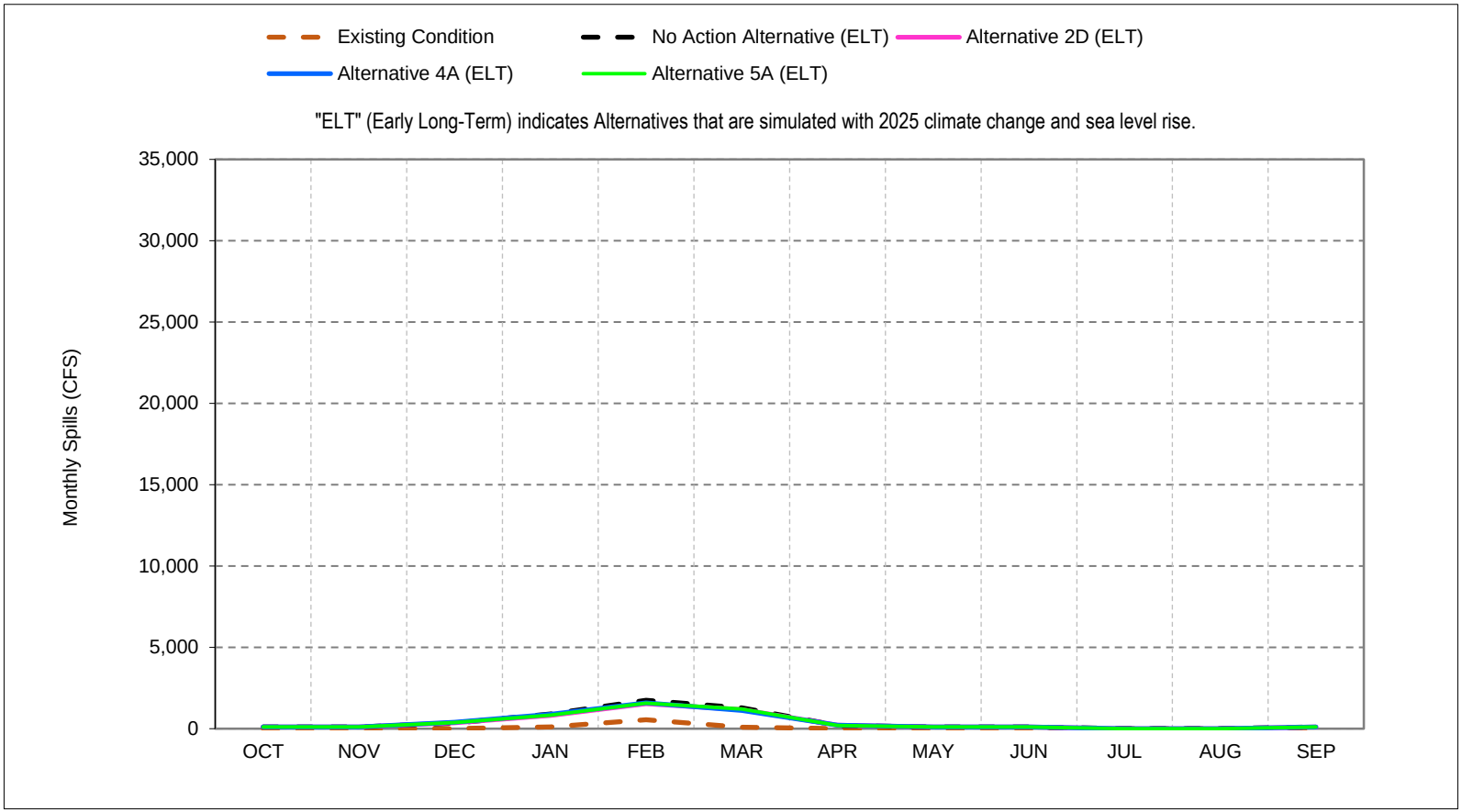
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-57-3. Fremont Weir, Above Normal Year* Average Spills



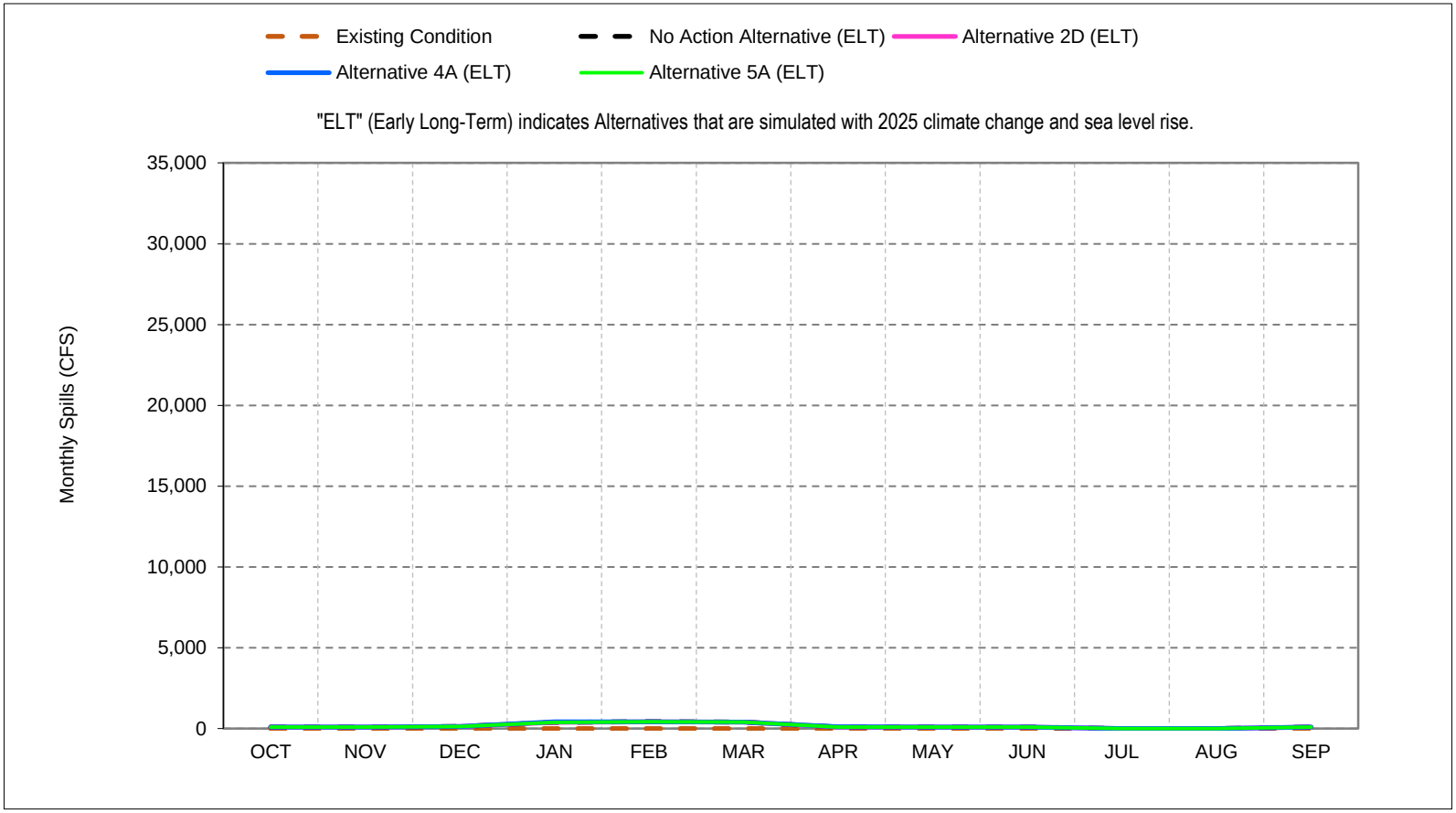
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-57-4. Fremont Weir, Below Normal Year* Average Spills



*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-57-5. Fremont Weir, Dry Year* Average Spills



*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-57-6. Fremont Weir, Critical Year* Average Spills

Table C-57-1. Fremont Weir, Monthly Spills

Existing Condition

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	8,900	25,431	35,828	18,376	1,191	0	0	0	0	0
20%	0	0	163	6,615	10,476	4,328	0	0	0	0	0	0
30%	0	0	0	945	4,562	274	0	0	0	0	0	0
40%	0	0	0	0	1,014	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	17	263	2,388	7,170	9,269	5,946	1,014	110	26	0	0	0
Water Year Types[b]												
Wet (32%)	53	828	6,724	20,528	23,869	15,897	3,122	345	82	0	0	0
Above Normal (15%)	0	0	823	4,359	9,430	6,058	124	0	0	0	0	0
Below Normal (17%)	0	0	793	0	1,179	1	36	0	0	0	0	0
Dry (22%)	0	0	0	103	542	86	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

No Action Alternative (ELT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	13,570	29,572	46,800	22,436	7,561	100	100	0	0	100
20%	100	100	3,943	13,290	17,943	10,877	4,323	100	100	0	0	100
30%	100	100	1,609	6,077	9,961	5,599	963	100	100	0	0	100
40%	100	100	490	2,619	6,056	3,696	342	100	100	0	0	100
50%	100	100	160	1,414	3,366	1,760	114	100	100	0	0	100
60%	100	100	104	788	1,441	954	100	100	100	0	0	100
70%	100	100	100	215	522	530	100	100	100	0	0	100
80%	100	100	100	100	120	175	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	127	367	4,201	10,466	13,650	9,205	2,651	158	102	0	0	100
Water Year Types[b]												
Wet (32%)	185	942	10,836	27,732	33,402	22,121	6,986	282	105	0	0	100
Above Normal (15%)	100	100	2,374	7,837	13,495	11,097	1,865	100	100	0	0	100
Below Normal (17%)	100	100	1,908	1,596	3,746	1,336	621	100	100	0	0	100
Dry (22%)	100	100	331	897	1,739	1,278	189	100	100	0	0	100
Critical (15%)	100	100	132	383	430	402	106	100	100	0	0	100

No Action Alternative (ELT) minus Existing Condition

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	4,670	4,141	10,972	4,060	6,370	100	100	0	0	100
20%	100	100	3,779	6,675	7,467	6,549	4,323	100	100	0	0	100
30%	100	100	1,609	5,132	5,399	5,325	963	100	100	0	0	100
40%	100	100	490	2,619	5,042	3,696	342	100	100	0	0	100
50%	100	100	160	1,414	3,366	1,760	114	100	100	0	0	100
60%	100	100	104	788	1,441	954	100	100	100	0	0	100
70%	100	100	100	215	522	530	100	100	100	0	0	100
80%	100	100	100	100	120	175	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	110	104	1,813	3,296	4,381	3,259	1,637	48	76	0	0	100
Water Year Types[b]												
Wet (32%)	132	114	4,112	7,204	9,533	6,224	3,865	-63	23	0	0	100
Above Normal (15%)	100	100	1,550	3,478	4,065	5,039	1,741	100	100	0	0	100
Below Normal (17%)	100	100	1,115	1,596	2,567	1,335	585	100	100	0	0	100
Dry (22%)	100	100	331	794	1,197	1,192	189	100	100	0	0	100
Critical (15%)	100	100	132	383	430	402	106	100	100	0	0	100

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-57-2. Fremont Weir, Monthly Spills

Existing Condition

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	8,900	25,431	35,828	18,376	1,191	0	0	0	0	0
20%	0	0	163	6,615	10,476	4,328	0	0	0	0	0	0
30%	0	0	0	945	4,562	274	0	0	0	0	0	0
40%	0	0	0	0	1,014	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	17	263	2,388	7,170	9,269	5,946	1,014	110	26	0	0	0
Water Year Types[b]												
Wet (32%)	53	828	6,724	20,528	23,869	15,897	3,122	345	82	0	0	0
Above Normal (15%)	0	0	823	4,359	9,430	6,058	124	0	0	0	0	0
Below Normal (17%)	0	0	793	0	1,179	1	36	0	0	0	0	0
Dry (22%)	0	0	0	103	542	86	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

Alternative 2D (ELT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	9,655	26,356	44,732	18,114	5,904	100	100	0	0	100
20%	100	100	3,458	10,482	13,877	6,622	4,160	100	100	0	0	100
30%	100	100	1,625	5,209	8,016	5,208	1,015	100	100	0	0	100
40%	100	100	527	2,642	5,152	3,455	342	100	100	0	0	100
50%	100	100	167	1,456	3,251	1,835	124	100	100	0	0	100
60%	100	100	103	791	1,775	1,066	100	100	100	0	0	100
70%	100	100	100	144	533	424	100	100	100	0	0	100
80%	100	100	100	100	122	175	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	113	366	3,612	9,423	12,443	7,995	2,247	158	102	0	0	100
Water Year Types[b]												
Wet (32%)	141	938	9,502	25,124	30,260	19,235	5,836	283	105	0	0	100
Above Normal (15%)	100	100	1,586	6,405	12,855	9,264	1,614	100	100	0	0	100
Below Normal (17%)	100	100	1,574	1,672	3,337	1,326	579	100	100	0	0	100
Dry (22%)	100	100	357	812	1,526	1,161	208	100	100	0	0	100
Critical (15%)	100	100	140	381	429	404	106	100	100	0	0	100

Alternative 2D (ELT) minus Existing Condition

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	755	925	8,904	-262	4,713	100	100	0	0	100
20%	100	100	3,295	3,866	3,401	2,294	4,160	100	100	0	0	100
30%	100	100	1,625	4,264	3,453	4,934	1,015	100	100	0	0	100
40%	100	100	527	2,642	4,137	3,455	342	100	100	0	0	100
50%	100	100	167	1,456	3,251	1,835	124	100	100	0	0	100
60%	100	100	103	791	1,775	1,066	100	100	100	0	0	100
70%	100	100	100	144	533	424	100	100	100	0	0	100
80%	100	100	100	100	122	175	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	96	103	1,225	2,253	3,175	2,049	1,232	48	76	0	0	100
Water Year Types[b]												
Wet (32%)	89	110	2,778	4,595	6,391	3,338	2,715	-63	23	0	0	100
Above Normal (15%)	100	100	763	2,045	3,425	3,206	1,490	100	100	0	0	100
Below Normal (17%)	100	100	781	1,672	2,158	1,325	542	100	100	0	0	100
Dry (22%)	100	100	357	709	984	1,075	208	100	100	0	0	100
Critical (15%)	100	100	140	381	429	404	106	100	100	0	0	100

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-57-3. Fremont Weir, Monthly Spills

Existing Condition

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	8,900	25,431	35,828	18,376	1,191	0	0	0	0	0
20%	0	0	163	6,615	10,476	4,328	0	0	0	0	0	0
30%	0	0	0	945	4,562	274	0	0	0	0	0	0
40%	0	0	0	0	1,014	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	17	263	2,388	7,170	9,269	5,946	1,014	110	26	0	0	0
Water Year Types[b]												
Wet (32%)	53	828	6,724	20,528	23,869	15,897	3,122	345	82	0	0	0
Above Normal (15%)	0	0	823	4,359	9,430	6,058	124	0	0	0	0	0
Below Normal (17%)	0	0	793	0	1,179	1	36	0	0	0	0	0
Dry (22%)	0	0	0	103	542	86	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

Alternative 4A (ELT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	8,916	24,137	44,012	18,122	5,904	100	100	0	0	100
20%	100	100	3,797	10,483	13,888	7,360	4,162	100	100	0	0	100
30%	100	100	1,570	5,485	8,061	5,164	963	100	100	0	0	100
40%	100	100	524	2,641	4,845	3,525	362	100	100	0	0	100
50%	100	100	184	1,455	3,356	2,047	120	100	100	0	0	100
60%	100	100	103	1,072	1,638	1,066	100	100	100	0	0	100
70%	100	100	100	226	540	593	100	100	100	0	0	100
80%	100	100	100	100	120	188	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	123	409	3,572	9,444	12,381	8,098	2,250	158	102	0	0	100
Water Year Types[b]												
Wet (32%)	173	1,075	9,424	25,237	30,354	19,508	5,835	283	105	0	0	100
Above Normal (15%)	100	100	1,313	6,148	12,606	9,276	1,638	100	100	0	0	100
Below Normal (17%)	100	100	1,679	1,690	2,932	1,466	584	100	100	0	0	100
Dry (22%)	100	100	385	876	1,586	1,118	203	100	100	0	0	100
Critical (15%)	100	100	141	417	430	404	107	100	100	0	0	100

Alternative 4A (ELT) minus Existing Condition

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	16	**-1,294**	8,184	**-254**	4,713	100	100	0	0	100
20%	100	100	3,634	3,868	3,412	3,032	4,162	100	100	0	0	100
30%	100	100	1,570	4,540	3,499	4,890	963	100	100	0	0	100
40%	100	100	524	2,641	3,831	3,525	362	100	100	0	0	100
50%	100	100	184	1,455	3,356	2,047	120	100	100	0	0	100
60%	100	100	103	1,072	1,638	1,066	100	100	100	0	0	100
70%	100	100	100	226	540	593	100	100	100	0	0	100
80%	100	100	100	100	120	188	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	106	147	1,184	2,274	3,112	2,152	1,236	48	76	0	0	100
Water Year Types[b]												
Wet (32%)	120	247	2,700	4,708	6,485	3,611	2,713	**-63**	23	0	0	100
Above Normal (15%)	100	100	489	1,789	3,176	3,218	1,514	100	100	0	0	100
Below Normal (17%)	100	100	886	1,690	1,753	1,465	548	100	100	0	0	100
Dry (22%)	100	100	385	773	1,044	1,032	203	100	100	0	0	100
Critical (15%)	100	100	141	417	430	404	107	100	100	0	0	100

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-57-4. Fremont Weir, Monthly Spills

Existing Condition

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	8,900	25,431	35,828	18,376	1,191	0	0	0	0	0
20%	0	0	163	6,615	10,476	4,328	0	0	0	0	0	0
30%	0	0	0	945	4,562	274	0	0	0	0	0	0
40%	0	0	0	0	1,014	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	17	263	2,388	7,170	9,269	5,946	1,014	110	26	0	0	0
Water Year Types[b]												
Wet (32%)	53	828	6,724	20,528	23,869	15,897	3,122	345	82	0	0	0
Above Normal (15%)	0	0	823	4,359	9,430	6,058	124	0	0	0	0	0
Below Normal (17%)	0	0	793	0	1,179	1	36	0	0	0	0	0
Dry (22%)	0	0	0	103	542	86	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

Alternative 5A (ELT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	9,966	26,499	43,392	18,143	5,904	100	100	0	0	100
20%	100	100	3,594	10,262	13,584	7,329	4,167	100	100	0	0	100
30%	100	100	1,609	5,214	7,467	5,252	955	100	100	0	0	100
40%	100	100	521	2,603	5,145	3,458	342	100	100	0	0	100
50%	100	100	202	1,414	3,357	1,847	124	100	100	0	0	100
60%	100	100	104	769	1,637	1,077	100	100	100	0	0	100
70%	100	100	100	213	532	612	100	100	100	0	0	100
80%	100	100	100	101	122	186	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	124	403	3,647	9,370	12,228	8,104	2,245	158	102	0	0	100
Water Year Types[b]												
Wet (32%)	176	1,055	9,602	25,023	30,118	19,543	5,841	283	105	0	0	100
Above Normal (15%)	100	100	1,500	6,190	12,084	9,241	1,615	100	100	0	0	100
Below Normal (17%)	100	100	1,652	1,726	2,955	1,369	579	100	100	0	0	100
Dry (22%)	100	100	366	817	1,561	1,197	193	100	100	0	0	100
Critical (15%)	100	100	139	384	429	404	106	100	100	0	0	100

Alternative 5A (ELT) minus Existing Condition

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	1,065	1,068	7,564	-233	4,713	100	100	0	0	100
20%	100	100	3,430	3,647	3,108	3,001	4,167	100	100	0	0	100
30%	100	100	1,609	4,269	2,905	4,977	955	100	100	0	0	100
40%	100	100	521	2,603	4,131	3,458	342	100	100	0	0	100
50%	100	100	202	1,414	3,357	1,847	124	100	100	0	0	100
60%	100	100	104	769	1,637	1,077	100	100	100	0	0	100
70%	100	100	100	213	532	612	100	100	100	0	0	100
80%	100	100	100	101	122	186	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	107	140	1,259	2,201	2,960	2,158	1,231	48	76	0	0	100
Water Year Types[b]												
Wet (32%)	123	227	2,878	4,495	6,249	3,646	2,719	-63	23	0	0	100
Above Normal (15%)	100	100	677	1,831	2,654	3,183	1,491	100	100	0	0	100
Below Normal (17%)	100	100	858	1,726	1,776	1,368	542	100	100	0	0	100
Dry (22%)	100	100	366	714	1,019	1,112	193	100	100	0	0	100
Critical (15%)	100	100	139	384	429	404	106	100	100	0	0	100

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-57-5. Fremont Weir, Monthly Spills

No Action Alternative (ELT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	13,570	29,572	46,800	22,436	7,561	100	100	0	0	100
20%	100	100	3,943	13,290	17,943	10,877	4,323	100	100	0	0	100
30%	100	100	1,609	6,077	9,961	5,599	963	100	100	0	0	100
40%	100	100	490	2,619	6,056	3,696	342	100	100	0	0	100
50%	100	100	160	1,414	3,366	1,760	114	100	100	0	0	100
60%	100	100	104	788	1,441	954	100	100	100	0	0	100
70%	100	100	100	215	522	530	100	100	100	0	0	100
80%	100	100	100	100	120	175	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	127	367	4,201	10,466	13,650	9,205	2,651	158	102	0	0	100
Water Year Types[b]												
Wet (32%)	185	942	10,836	27,732	33,402	22,121	6,986	282	105	0	0	100
Above Normal (15%)	100	100	2,374	7,837	13,495	11,097	1,865	100	100	0	0	100
Below Normal (17%)	100	100	1,908	1,596	3,746	1,336	621	100	100	0	0	100
Dry (22%)	100	100	331	897	1,739	1,278	189	100	100	0	0	100
Critical (15%)	100	100	132	383	430	402	106	100	100	0	0	100

Alternative 2D (ELT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	9,655	26,356	44,732	18,114	5,904	100	100	0	0	100
20%	100	100	3,458	10,482	13,877	6,622	4,160	100	100	0	0	100
30%	100	100	1,625	5,209	8,016	5,208	1,015	100	100	0	0	100
40%	100	100	527	2,642	5,152	3,455	342	100	100	0	0	100
50%	100	100	167	1,456	3,251	1,835	124	100	100	0	0	100
60%	100	100	103	791	1,775	1,066	100	100	100	0	0	100
70%	100	100	100	144	533	424	100	100	100	0	0	100
80%	100	100	100	100	122	175	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	113	366	3,612	9,423	12,443	7,995	2,247	158	102	0	0	100
Water Year Types[b]												
Wet (32%)	141	938	9,502	25,124	30,260	19,235	5,836	283	105	0	0	100
Above Normal (15%)	100	100	1,586	6,405	12,855	9,264	1,614	100	100	0	0	100
Below Normal (17%)	100	100	1,574	1,672	3,337	1,326	579	100	100	0	0	100
Dry (22%)	100	100	357	812	1,526	1,161	208	100	100	0	0	100
Critical (15%)	100	100	140	381	429	404	106	100	100	0	0	100

Alternative 2D (ELT) minus No Action Alternative (ELT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	-3,915	-3,216	-2,068	-4,322	-1,657	0	0	0	0	0
20%	0	0	-485	-2,809	-4,066	-4,255	-163	0	0	0	0	0
30%	0	0	15	-868	-1,946	-391	52	0	0	0	0	0
40%	0	0	37	23	-904	-241	0	0	0	0	0	0
50%	0	0	7	42	-114	75	10	0	0	0	0	0
60%	0	0	-1	3	334	112	0	0	0	0	0	0
70%	0	0	0	-71	11	-106	0	0	0	0	0	0
80%	0	0	0	0	2	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	-14	-1	-588	-1,043	-1,206	-1,210	-404	0	0	0	0	0
Water Year Types[b]												
Wet (32%)	-43	-4	-1,334	-2,609	-3,142	-2,886	-1,150	0	0	0	0	0
Above Normal (15%)	0	0	-788	-1,433	-640	-1,833	-251	0	0	0	0	0
Below Normal (17%)	0	0	-334	76	-409	-10	-42	0	0	0	0	0
Dry (22%)	0	0	26	-85	-213	-117	19	0	0	0	0	0
Critical (15%)	0	0	8	-2	-1	2	0	0	0	0	0	0

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-57-6. Fremont Weir, Monthly Spills

No Action Alternative (ELT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	13,570	29,572	46,800	22,436	7,561	100	100	0	0	100
20%	100	100	3,943	13,290	17,943	10,877	4,323	100	100	0	0	100
30%	100	100	1,609	6,077	9,961	5,599	963	100	100	0	0	100
40%	100	100	490	2,619	6,056	3,696	342	100	100	0	0	100
50%	100	100	160	1,414	3,366	1,760	114	100	100	0	0	100
60%	100	100	104	788	1,441	954	100	100	100	0	0	100
70%	100	100	100	215	522	530	100	100	100	0	0	100
80%	100	100	100	100	120	175	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	127	367	4,201	10,466	13,650	9,205	2,651	158	102	0	0	100
Water Year Types[b]												
Wet (32%)	185	942	10,836	27,732	33,402	22,121	6,986	282	105	0	0	100
Above Normal (15%)	100	100	2,374	7,837	13,495	11,097	1,865	100	100	0	0	100
Below Normal (17%)	100	100	1,908	1,596	3,746	1,336	621	100	100	0	0	100
Dry (22%)	100	100	331	897	1,739	1,278	189	100	100	0	0	100
Critical (15%)	100	100	132	383	430	402	106	100	100	0	0	100

Alternative 4A (ELT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	8,916	24,137	44,012	18,122	5,904	100	100	0	0	100
20%	100	100	3,797	10,483	13,888	7,360	4,162	100	100	0	0	100
30%	100	100	1,570	5,485	8,061	5,164	963	100	100	0	0	100
40%	100	100	524	2,641	4,845	3,525	362	100	100	0	0	100
50%	100	100	184	1,455	3,356	2,047	120	100	100	0	0	100
60%	100	100	103	1,072	1,638	1,066	100	100	100	0	0	100
70%	100	100	100	226	540	593	100	100	100	0	0	100
80%	100	100	100	100	120	188	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	123	409	3,572	9,444	12,381	8,098	2,250	158	102	0	0	100
Water Year Types[b]												
Wet (32%)	173	1,075	9,424	25,237	30,354	19,508	5,835	283	105	0	0	100
Above Normal (15%)	100	100	1,313	6,148	12,606	9,276	1,638	100	100	0	0	100
Below Normal (17%)	100	100	1,679	1,690	2,932	1,466	584	100	100	0	0	100
Dry (22%)	100	100	385	876	1,586	1,118	203	100	100	0	0	100
Critical (15%)	100	100	141	417	430	404	107	100	100	0	0	100

Alternative 4A (ELT) minus No Action Alternative (ELT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	-4,654	-5,435	-2,788	-4,314	-1,657	0	0	0	0	0
20%	0	0	-145	-2,807	-4,055	-3,517	-162	0	0	0	0	0
30%	0	0	-39	-592	-1,901	-435	0	0	0	0	0	0
40%	0	0	34	22	-1,211	-171	20	0	0	0	0	0
50%	0	0	24	41	-10	287	7	0	0	0	0	0
60%	0	0	-1	284	196	112	0	0	0	0	0	0
70%	0	0	0	11	17	63	0	0	0	0	0	0
80%	0	0	0	0	0	13	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	-4	42	-629	-1,022	-1,269	-1,108	-401	0	0	0	0	0
Water Year Types[b]												
Wet (32%)	-12	133	-1,412	-2,496	-3,048	-2,613	-1,151	1	0	0	0	0
Above Normal (15%)	0	0	-1,061	-1,689	-889	-1,821	-227	0	0	0	0	0
Below Normal (17%)	0	0	-229	94	-813	130	-37	0	0	0	0	0
Dry (22%)	0	0	55	-21	-152	-160	15	0	0	0	0	0
Critical (15%)	0	0	8	34	-1	2	1	0	0	0	0	0

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-57-7. Fremont Weir, Monthly Spills

No Action Alternative (ELT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	13,570	29,572	46,800	22,436	7,561	100	100	0	0	100
20%	100	100	3,943	13,290	17,943	10,877	4,323	100	100	0	0	100
30%	100	100	1,609	6,077	9,961	5,599	963	100	100	0	0	100
40%	100	100	490	2,619	6,056	3,696	342	100	100	0	0	100
50%	100	100	160	1,414	3,366	1,760	114	100	100	0	0	100
60%	100	100	104	788	1,441	954	100	100	100	0	0	100
70%	100	100	100	215	522	530	100	100	100	0	0	100
80%	100	100	100	100	120	175	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	127	367	4,201	10,466	13,650	9,205	2,651	158	102	0	0	100
Water Year Types[b]												
Wet (32%)	185	942	10,836	27,732	33,402	22,121	6,986	282	105	0	0	100
Above Normal (15%)	100	100	2,374	7,837	13,495	11,097	1,865	100	100	0	0	100
Below Normal (17%)	100	100	1,908	1,596	3,746	1,336	621	100	100	0	0	100
Dry (22%)	100	100	331	897	1,739	1,278	189	100	100	0	0	100
Critical (15%)	100	100	132	383	430	402	106	100	100	0	0	100

Alternative 5A (ELT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	100	9,966	26,499	43,392	18,143	5,904	100	100	0	0	100
20%	100	100	3,594	10,262	13,584	7,329	4,167	100	100	0	0	100
30%	100	100	1,609	5,214	7,467	5,252	955	100	100	0	0	100
40%	100	100	521	2,603	5,145	3,458	342	100	100	0	0	100
50%	100	100	202	1,414	3,357	1,847	124	100	100	0	0	100
60%	100	100	104	769	1,637	1,077	100	100	100	0	0	100
70%	100	100	100	213	532	612	100	100	100	0	0	100
80%	100	100	100	101	122	186	100	100	100	0	0	100
90%	100	100	100	100	100	100	100	100	100	0	0	100
Long Term												
Full Simulation Period[a]	124	403	3,647	9,370	12,228	8,104	2,245	158	102	0	0	100
Water Year Types[b]												
Wet (32%)	176	1,055	9,602	25,023	30,118	19,543	5,841	283	105	0	0	100
Above Normal (15%)	100	100	1,500	6,190	12,084	9,241	1,615	100	100	0	0	100
Below Normal (17%)	100	100	1,652	1,726	2,955	1,369	579	100	100	0	0	100
Dry (22%)	100	100	366	817	1,561	1,197	193	100	100	0	0	100
Critical (15%)	100	100	139	384	429	404	106	100	100	0	0	100

Alternative 5A (ELT) minus No Action Alternative (ELT)

	Monthly Spills (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	-3,604	-3,073	-3,408	-4,293	-1,658	0	0	0	0	0
20%	0	0	-349	-3,028	-4,359	-3,548	-157	0	0	0	0	0
30%	0	0	-1	-863	-2,494	-348	-8	0	0	0	0	0
40%	0	0	30	-16	-911	-238	1	0	0	0	0	0
50%	0	0	41	0	-9	87	10	0	0	0	0	0
60%	0	0	1	-19	195	123	0	0	0	0	0	0
70%	0	0	0	-2	10	82	0	0	0	0	0	0
80%	0	0	0	1	2	11	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	-3	36	-554	-1,095	-1,422	-1,101	-406	0	0	0	0	0
Water Year Types[b]												
Wet (32%)	-9	113	-1,234	-2,709	-3,284	-2,578	-1,145	1	0	0	0	0
Above Normal (15%)	0	0	-874	-1,647	-1,411	-1,856	-250	0	0	0	0	0
Below Normal (17%)	0	0	-256	130	-791	33	-42	0	0	0	0	0
Dry (22%)	0	0	35	-80	-177	-81	4	0	0	0	0	0
Critical (15%)	0	0	7	0	-1	2	0	0	0	0	0	0

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

C.58. American River Flow downstream of Folsom

Table C-58-1. American River d/s of Nimbus Dam, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,257	4,282	7,245	10,559	11,669	8,886	6,694	8,326	7,207	5,000	4,280	4,311
20%	1,723	3,062	4,444	6,735	9,108	5,544	5,098	5,048	5,136	5,000	3,823	4,177
30%	1,500	2,657	2,507	4,684	6,367	4,132	4,121	4,228	4,295	4,982	3,090	3,687
40%	1,500	2,398	2,000	3,087	4,750	3,426	3,287	3,591	3,197	4,577	2,920	3,193
50%	1,500	2,009	2,000	2,005	3,504	2,524	2,385	2,875	2,850	4,123	2,719	2,570
60%	1,500	1,925	2,000	1,700	2,413	1,843	2,057	1,750	2,344	3,623	2,502	2,041
70%	1,500	1,714	1,782	1,700	1,565	1,508	1,668	1,445	1,904	3,150	2,263	1,622
80%	1,500	1,534	1,499	1,542	1,445	1,143	1,445	1,339	1,750	2,930	1,752	1,207
90%	1,210	949	952	1,141	1,225	891	925	925	1,429	1,891	1,256	906
Long Term												
Full Simulation Period[a]	1,605	2,706	3,519	4,502	5,218	3,762	3,305	3,587	3,699	3,838	2,707	2,663
Water Year Types[b]												
Wet (32%)	1,723	3,527	6,302	8,806	9,294	6,089	5,300	6,157	6,003	4,108	3,520	4,025
Above Normal (15%)	1,706	3,181	3,137	4,833	6,469	5,454	3,546	3,885	3,346	4,638	2,542	2,764
Below Normal (17%)	1,602	2,067	2,676	2,392	4,360	2,429	3,126	2,930	2,863	4,744	2,495	2,370
Dry (22%)	1,468	2,176	1,741	1,723	1,852	2,191	1,837	1,790	2,506	3,577	2,613	1,856
Critical (15%)	1,461	1,994	1,524	1,474	1,185	939	1,156	1,182	1,824	1,784	1,500	1,164

No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,491	3,691	8,361	11,923	14,287	9,608	6,912	8,027	5,382	5,000	3,215	4,280
20%	1,836	2,926	3,309	7,615	10,320	5,820	4,980	4,387	4,207	5,000	2,972	4,008
30%	1,572	2,592	2,000	5,026	6,864	4,311	4,140	3,519	3,578	4,991	2,657	3,386
40%	1,500	1,978	2,000	2,850	5,040	3,847	3,211	3,133	2,898	4,088	2,327	2,557
50%	1,500	1,925	2,000	1,750	3,124	2,593	2,313	2,249	2,304	3,713	2,016	2,068
60%	1,500	1,683	1,943	1,700	2,018	1,866	2,070	1,750	1,914	3,151	1,784	1,572
70%	1,388	1,436	1,605	1,675	1,445	1,379	1,522	1,445	1,750	2,764	1,750	1,533
80%	1,072	1,153	1,179	1,348	1,348	923	1,145	1,098	1,528	2,300	1,070	959
90%	802	808	800	905	939	800	800	802	1,082	1,455	800	800
Long Term												
Full Simulation Period[a]	1,556	2,519	3,616	4,856	5,716	3,947	3,277	3,243	3,042	3,517	2,101	2,391
Water Year Types[b]												
Wet (32%)	1,695	3,428	6,672	10,114	10,422	6,454	5,368	5,673	4,521	3,575	2,572	3,988
Above Normal (15%)	1,607	3,190	3,087	4,940	7,220	5,763	3,356	3,148	2,911	4,634	2,162	2,632
Below Normal (17%)	1,510	1,979	2,857	2,306	4,739	2,622	3,110	2,465	2,551	4,555	2,314	1,924
Dry (22%)	1,478	1,721	1,641	1,622	1,769	2,185	1,777	1,684	2,526	3,095	1,762	1,375
Critical (15%)	1,375	1,704	1,373	1,209	1,073	889	1,110	1,320	1,317	1,694	1,280	758

No Action Alternative (ELT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	234	-591	1,116	1,364	2,618	722	218	-299	-1,825	0	-1,065	-31
20%	112	-137	-1,135	880	1,212	277	-118	-661	-929	0	-851	-169
30%	72	-65	-507	342	497	178	19	-709	-717	9	-434	-301
40%	0	-420	0	-237	290	421	-76	-458	-299	-489	-593	-635
50%	0	-84	0	-255	-380	69	-72	-626	-546	-410	-703	-501
60%	0	-242	-57	0	-395	23	13	0	-430	-472	-718	-469
70%	-112	-279	-177	-25	-120	-129	-146	0	-154	-386	-513	-89
80%	-428	-381	-319	-194	-97	-220	-300	-240	-222	-630	-683	-248
90%	-408	-141	-152	-236	-286	-91	-125	-124	-347	-436	-456	-106
Long Term												
Full Simulation Period[a]	-49	-187	97	355	498	185	-29	-343	-657	-321	-606	-272
Water Year Types[b]												
Wet (32%)	-28	-99	370	1,308	1,129	365	67	-483	-1,482	-533	-948	-37
Above Normal (15%)	-99	9	-50	107	751	310	-189	-737	-435	-4	-380	-132
Below Normal (17%)	-92	-88	182	-86	379	192	-15	-465	-312	-190	-181	-446
Dry (22%)	10	-455	-99	-101	-83	-7	-61	-106	20	-482	-850	-481
Critical (15%)	-86	-290	-151	-265	-112	-50	-46	138	-507	-90	-220	-407

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-58-2. American River d/s of Nimbus Dam, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,257	4,282	7,245	10,559	11,669	8,886	6,694	8,326	7,207	5,000	4,280	4,311
20%	1,723	3,062	4,444	6,735	9,108	5,544	5,098	5,048	5,136	5,000	3,823	4,177
30%	1,500	2,657	2,507	4,684	6,367	4,132	4,121	4,228	4,295	4,982	3,090	3,687
40%	1,500	2,398	2,000	3,087	4,750	3,426	3,287	3,591	3,197	4,577	2,920	3,193
50%	1,500	2,009	2,000	2,005	3,504	2,524	2,385	2,875	2,850	4,123	2,719	2,570
60%	1,500	1,925	2,000	1,700	2,413	1,843	2,057	1,750	2,344	3,623	2,502	2,041
70%	1,500	1,714	1,782	1,700	1,565	1,508	1,668	1,445	1,904	3,150	2,263	1,622
80%	1,500	1,534	1,499	1,542	1,445	1,143	1,445	1,339	1,750	2,930	1,752	1,207
90%	1,210	949	952	1,141	1,225	891	925	925	1,429	1,891	1,256	906
Long Term												
Full Simulation Period[a]	1,605	2,706	3,519	4,502	5,218	3,762	3,305	3,587	3,699	3,838	2,707	2,663
Water Year Types[b]												
Wet (32%)	1,723	3,527	6,302	8,806	9,294	6,089	5,300	6,157	6,003	4,108	3,520	4,025
Above Normal (15%)	1,706	3,181	3,137	4,833	6,469	5,454	3,546	3,885	3,346	4,638	2,542	2,764
Below Normal (17%)	1,602	2,067	2,676	2,392	4,360	2,429	3,126	2,930	2,863	4,744	2,495	2,370
Dry (22%)	1,468	2,176	1,741	1,723	1,852	2,191	1,837	1,790	2,506	3,577	2,613	1,856
Critical (15%)	1,461	1,994	1,524	1,474	1,185	939	1,156	1,182	1,824	1,784	1,500	1,164

Alternative 2D (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,495	3,602	8,492	11,923	14,287	9,608	6,912	8,027	5,382	5,000	2,982	3,939
20%	1,765	2,110	3,799	7,700	10,247	5,821	4,995	4,740	4,624	5,000	2,482	3,445
30%	1,500	1,925	2,031	4,747	7,000	4,545	4,155	3,656	4,144	5,000	2,223	2,420
40%	1,500	1,925	2,000	2,739	5,082	3,846	3,228	3,201	3,977	4,533	1,947	1,837
50%	1,500	1,925	2,000	1,750	3,254	2,593	2,313	2,691	3,409	3,806	1,750	1,533
60%	1,500	1,638	1,871	1,700	2,304	1,775	2,056	1,977	2,570	3,366	1,750	1,533
70%	1,497	1,499	1,565	1,700	1,537	1,447	1,750	1,619	2,245	3,053	1,750	1,533
80%	1,030	1,066	1,066	1,424	1,391	898	1,192	1,259	1,830	2,496	1,032	928
90%	800	800	800	922	1,084	800	801	889	1,158	1,037	800	800
Long Term												
Full Simulation Period[a]	1,569	2,265	3,656	4,814	5,793	3,959	3,317	3,392	3,505	3,598	1,881	2,044
Water Year Types[b]												
Wet (32%)	1,593	2,970	6,794	10,125	10,463	6,454	5,368	5,754	4,850	3,755	2,391	3,391
Above Normal (15%)	1,515	2,802	3,011	4,934	7,510	5,813	3,353	3,412	3,570	4,569	1,959	2,115
Below Normal (17%)	1,778	1,715	2,948	2,106	4,869	2,621	3,130	2,767	3,294	4,641	2,097	1,453
Dry (22%)	1,380	1,703	1,578	1,532	1,729	2,207	1,838	1,824	3,174	3,181	1,437	1,364
Critical (15%)	1,612	1,682	1,448	1,272	1,130	886	1,277	1,332	1,272	1,698	1,107	761

Alternative 2D (ELT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	239	-680	1,247	1,364	2,618	722	218	-299	-1,825	0	-1,298	-372
20%	42	-952	-645	965	1,138	277	-103	-308	-512	0	-1,341	-732
30%	0	-732	-476	63	633	413	34	-572	-151	18	-868	-1,268
40%	0	-473	0	-348	332	420	-59	-389	781	-44	-973	-1,356
50%	0	-84	0	-255	-250	69	-72	-184	559	-317	-969	-1,036
60%	0	-287	-129	0	-109	-68	-1	227	225	-257	-752	-507
70%	-3	-215	-217	0	-28	-61	82	174	341	-97	-513	-89
80%	-470	-468	-433	-118	-54	-245	-253	-80	80	-435	-721	-279
90%	-410	-149	-152	-219	-141	-91	-124	-36	-271	-854	-456	-106
Long Term												
Full Simulation Period[a]	-36	-442	137	312	575	197	12	-195	-194	-240	-827	-619
Water Year Types[b]												
Wet (32%)	-130	-556	493	1,319	1,170	365	67	-403	-1,153	-354	-1,129	-633
Above Normal (15%)	-191	-379	-126	101	1,041	360	-193	-473	224	-70	-583	-649
Below Normal (17%)	176	-352	272	-287	509	192	5	-163	430	-103	-398	-918
Dry (22%)	-88	-473	-163	-191	-123	16	0	35	669	-396	-1,176	-492
Critical (15%)	151	-312	-77	-202	-55	-54	121	151	-552	-86	-393	-404

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-58-3. American River d/s of Nimbus Dam, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,257	4,282	7,245	10,559	11,669	8,886	6,694	8,326	7,207	5,000	4,280	4,311
20%	1,723	3,062	4,444	6,735	9,108	5,544	5,098	5,048	5,136	5,000	3,823	4,177
30%	1,500	2,657	2,507	4,684	6,367	4,132	4,121	4,228	4,295	4,982	3,090	3,687
40%	1,500	2,398	2,000	3,087	4,750	3,426	3,287	3,591	3,197	4,577	2,920	3,193
50%	1,500	2,009	2,000	2,005	3,504	2,524	2,385	2,875	2,850	4,123	2,719	2,570
60%	1,500	1,925	2,000	1,700	2,413	1,843	2,057	1,750	2,344	3,623	2,502	2,041
70%	1,500	1,714	1,782	1,700	1,565	1,508	1,668	1,445	1,904	3,150	2,263	1,622
80%	1,500	1,534	1,499	1,542	1,445	1,143	1,445	1,339	1,750	2,930	1,752	1,207
90%	1,210	949	952	1,141	1,225	891	925	925	1,429	1,891	1,256	906
Long Term												
Full Simulation Period[a]	1,605	2,706	3,519	4,502	5,218	3,762	3,305	3,587	3,699	3,838	2,707	2,663
Water Year Types[b]												
Wet (32%)	1,723	3,527	6,302	8,806	9,294	6,089	5,300	6,157	6,003	4,108	3,520	4,025
Above Normal (15%)	1,706	3,181	3,137	4,833	6,469	5,454	3,546	3,885	3,346	4,638	2,542	2,764
Below Normal (17%)	1,602	2,067	2,676	2,392	4,360	2,429	3,126	2,930	2,863	4,744	2,495	2,370
Dry (22%)	1,468	2,176	1,741	1,723	1,852	2,191	1,837	1,790	2,506	3,577	2,613	1,856
Critical (15%)	1,461	1,994	1,524	1,474	1,185	939	1,156	1,182	1,824	1,784	1,500	1,164

Alternative 4A (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,633	2,882	8,410	11,923	14,287	9,608	6,912	8,027	5,382	5,000	3,034	4,267
20%	2,094	2,240	3,809	7,705	10,276	5,819	4,990	4,387	4,511	4,613	2,361	3,802
30%	1,685	1,972	2,022	4,772	7,000	4,543	4,155	3,543	4,177	4,145	1,988	3,047
40%	1,523	1,925	2,000	2,946	5,040	3,846	3,053	3,137	3,996	3,832	1,805	2,126
50%	1,500	1,897	2,000	1,806	3,300	2,593	2,275	2,283	3,415	3,461	1,750	1,533
60%	1,500	1,683	1,963	1,700	2,161	1,750	1,961	1,750	2,902	3,128	1,750	1,533
70%	1,500	1,586	1,681	1,700	1,445	1,414	1,522	1,445	2,270	2,870	1,750	1,525
80%	1,178	1,275	1,178	1,427	1,312	926	1,113	1,162	1,769	2,441	1,151	938
90%	802	885	800	901	1,176	800	801	804	1,145	1,439	800	800
Long Term												
Full Simulation Period[a]	1,670	2,313	3,669	4,894	5,781	3,954	3,264	3,253	3,519	3,381	1,849	2,227
Water Year Types[b]												
Wet (32%)	1,837	3,055	6,821	10,176	10,475	6,454	5,368	5,673	4,889	3,668	2,291	3,767
Above Normal (15%)	1,492	2,863	3,074	5,090	7,460	5,815	3,351	3,147	3,234	4,467	2,044	2,540
Below Normal (17%)	1,836	1,749	2,906	2,183	4,837	2,621	3,112	2,461	3,588	4,060	2,028	1,501
Dry (22%)	1,405	1,707	1,585	1,652	1,702	2,182	1,727	1,725	3,131	2,850	1,516	1,358
Critical (15%)	1,694	1,719	1,451	1,280	1,148	887	1,100	1,330	1,337	1,682	990	731

Alternative 4A (ELT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	376	-1,400	1,165	1,364	2,618	722	218	-299	-1,825	0	-1,246	-44
20%	371	-822	-636	970	1,167	275	-108	-661	-625	-387	-1,462	-376
30%	185	-685	-486	88	633	411	34	-685	-118	-837	-1,102	-640
40%	23	-473	0	-141	290	420	-234	-454	799	-746	-1,115	-1,067
50%	0	-112	0	-199	-204	69	-110	-593	564	-662	-969	-1,036
60%	0	-242	-37	0	-253	-93	-96	0	557	-495	-752	-507
70%	0	-128	-101	0	-120	-94	-146	0	366	-280	-513	-97
80%	-322	-258	-321	-115	-133	-218	-332	-177	19	-490	-602	-269
90%	-408	-64	-152	-241	-49	-91	-124	-122	-284	-452	-456	-106
Long Term												
Full Simulation Period[a]	65	-394	150	392	563	192	-42	-334	-180	-456	-858	-436
Water Year Types[b]												
Wet (32%)	114	-472	520	1,370	1,182	366	68	-484	-1,114	-441	-1,230	-258
Above Normal (15%)	-214	-318	-62	257	991	361	-194	-738	-111	-171	-498	-224
Below Normal (17%)	234	-318	230	-210	477	192	-14	-468	724	-685	-466	-870
Dry (22%)	-63	-469	-156	-71	-150	-9	-110	-65	625	-727	-1,097	-498
Critical (15%)	233	-275	-73	-194	-37	-52	-56	149	-487	-103	-511	-433

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-58-4. American River d/s of Nimbus Dam, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,257	4,282	7,245	10,559	11,669	8,886	6,694	8,326	7,207	5,000	4,280	4,311
20%	1,723	3,062	4,444	6,735	9,108	5,544	5,098	5,048	5,136	5,000	3,823	4,177
30%	1,500	2,657	2,507	4,684	6,367	4,132	4,121	4,228	4,295	4,982	3,090	3,687
40%	1,500	2,398	2,000	3,087	4,750	3,426	3,287	3,591	3,197	4,577	2,920	3,193
50%	1,500	2,009	2,000	2,005	3,504	2,524	2,385	2,875	2,850	4,123	2,719	2,570
60%	1,500	1,925	2,000	1,700	2,413	1,843	2,057	1,750	2,344	3,623	2,502	2,041
70%	1,500	1,714	1,782	1,700	1,565	1,508	1,668	1,445	1,904	3,150	2,263	1,622
80%	1,500	1,534	1,499	1,542	1,445	1,143	1,445	1,339	1,750	2,930	1,752	1,207
90%	1,210	949	952	1,141	1,225	891	925	925	1,429	1,891	1,256	906
Long Term												
Full Simulation Period[a]	1,605	2,706	3,519	4,502	5,218	3,762	3,305	3,587	3,699	3,838	2,707	2,663
Water Year Types[b]												
Wet (32%)	1,723	3,527	6,302	8,806	9,294	6,089	5,300	6,157	6,003	4,108	3,520	4,025
Above Normal (15%)	1,706	3,181	3,137	4,833	6,469	5,454	3,546	3,885	3,346	4,638	2,542	2,764
Below Normal (17%)	1,602	2,067	2,676	2,392	4,360	2,429	3,126	2,930	2,863	4,744	2,495	2,370
Dry (22%)	1,468	2,176	1,741	1,723	1,852	2,191	1,837	1,790	2,506	3,577	2,613	1,856
Critical (15%)	1,461	1,994	1,524	1,474	1,185	939	1,156	1,182	1,824	1,784	1,500	1,164

Alternative 5A (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,067	3,195	8,431	11,923	14,287	8,764	6,912	8,027	5,382	5,000	3,071	4,073
20%	1,805	2,360	4,003	7,698	10,321	5,820	4,988	4,359	4,876	5,000	2,741	3,455
30%	1,563	1,998	2,000	5,288	7,000	4,545	4,129	3,517	4,241	5,000	2,268	2,528
40%	1,500	1,925	2,000	2,850	5,126	3,847	3,209	3,024	3,723	4,688	2,104	1,865
50%	1,500	1,925	2,000	1,750	3,450	2,593	2,275	2,321	3,425	4,032	1,783	1,533
60%	1,500	1,683	1,859	1,700	2,323	1,866	2,061	1,784	2,448	3,335	1,750	1,533
70%	1,358	1,370	1,521	1,700	1,537	1,467	1,600	1,480	2,133	3,054	1,750	1,525
80%	1,042	1,146	1,055	1,488	1,355	963	1,186	1,174	1,750	2,560	1,092	965
90%	800	800	800	888	980	800	811	831	1,108	1,717	800	800
Long Term												
Full Simulation Period[a]	1,513	2,307	3,644	4,874	5,773	3,934	3,286	3,263	3,478	3,683	1,944	2,080
Water Year Types[b]												
Wet (32%)	1,609	3,035	6,790	10,144	10,441	6,454	5,368	5,707	4,732	3,919	2,526	3,405
Above Normal (15%)	1,685	2,946	3,030	4,941	7,353	5,802	3,353	3,187	3,371	4,947	2,016	2,224
Below Normal (17%)	1,512	1,797	2,898	2,305	4,909	2,621	3,111	2,570	3,427	4,211	2,101	1,515
Dry (22%)	1,373	1,629	1,608	1,665	1,790	2,117	1,793	1,739	2,978	3,462	1,456	1,356
Critical (15%)	1,342	1,704	1,367	1,202	1,062	865	1,155	1,140	1,674	1,621	1,157	812

Alternative 5A (ELT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-189	-1,087	1,186	1,364	2,618	-121	218	-299	-1,825	0	-1,209	-238
20%	82	-703	-441	964	1,212	276	-110	-689	-260	0	-1,082	-723
30%	63	-659	-507	604	633	412	8	-712	-54	18	-822	-1,160
40%	0	-473	0	-237	376	421	-78	-567	526	110	-816	-1,328
50%	0	-84	0	-255	-54	69	-110	-554	574	-92	-936	-1,036
60%	0	-242	-141	0	-90	23	5	34	103	-288	-752	-507
70%	-142	-344	-261	0	-28	-41	-68	35	229	-96	-513	-97
80%	-458	-388	-444	-55	-90	-181	-259	-164	0	-370	-661	-242
90%	-410	-149	-152	-253	-245	-91	-114	-94	-321	-174	-456	-106
Long Term												
Full Simulation Period[a]	-92	-399	125	372	555	172	-19	-323	-221	-155	-764	-583
Water Year Types[b]												
Wet (32%)	-114	-492	489	1,337	1,148	365	67	-449	-1,271	-190	-994	-620
Above Normal (15%)	-21	-235	-107	108	884	349	-192	-698	25	308	-526	-540
Below Normal (17%)	-90	-271	222	-88	549	192	-14	-360	564	-533	-394	-856
Dry (22%)	-95	-547	-133	-58	-62	-75	-44	-51	473	-115	-1,156	-500
Critical (15%)	-118	-290	-157	-272	-123	-74	-1	-42	-150	-163	-343	-353

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-58-5. American River d/s of Nimbus Dam, Monthly Flow

No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,491	3,691	8,361	11,923	14,287	9,608	6,912	8,027	5,382	5,000	3,215	4,280
20%	1,836	2,926	3,309	7,615	10,320	5,820	4,980	4,387	4,207	5,000	2,972	4,008
30%	1,572	2,592	2,000	5,026	6,864	4,311	4,140	3,519	3,578	4,991	2,657	3,386
40%	1,500	1,978	2,000	2,850	5,040	3,847	3,211	3,133	2,898	4,088	2,327	2,557
50%	1,500	1,925	2,000	1,750	3,124	2,593	2,313	2,249	2,304	3,713	2,016	2,068
60%	1,500	1,683	1,943	1,700	2,018	1,866	2,070	1,750	1,914	3,151	1,784	1,572
70%	1,388	1,436	1,605	1,675	1,445	1,379	1,522	1,445	1,750	2,764	1,750	1,533
80%	1,072	1,153	1,179	1,348	1,348	923	1,145	1,098	1,528	2,300	1,070	959
90%	802	808	800	905	939	800	800	802	1,082	1,455	800	800
Long Term												
Full Simulation Period[a]	1,556	2,519	3,616	4,856	5,716	3,947	3,277	3,243	3,042	3,517	2,101	2,391
Water Year Types[b]												
Wet (32%)	1,695	3,428	6,672	10,114	10,422	6,454	5,368	5,673	4,521	3,575	2,572	3,988
Above Normal (15%)	1,607	3,190	3,087	4,940	7,220	5,763	3,356	3,148	2,911	4,634	2,162	2,632
Below Normal (17%)	1,510	1,979	2,857	2,306	4,739	2,622	3,110	2,465	2,551	4,555	2,314	1,924
Dry (22%)	1,478	1,721	1,641	1,622	1,769	2,185	1,777	1,684	2,526	3,095	1,762	1,375
Critical (15%)	1,375	1,704	1,373	1,209	1,073	889	1,110	1,320	1,317	1,694	1,280	758

Alternative 2D (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,495	3,602	8,492	11,923	14,287	9,608	6,912	8,027	5,382	5,000	2,982	3,939
20%	1,765	2,110	3,799	7,700	10,247	5,821	4,995	4,740	4,624	5,000	2,482	3,445
30%	1,500	1,925	2,031	4,747	7,000	4,545	4,155	3,656	4,144	5,000	2,223	2,420
40%	1,500	1,925	2,000	2,739	5,082	3,846	3,228	3,201	3,977	4,533	1,947	1,837
50%	1,500	1,925	2,000	1,750	3,254	2,593	2,313	2,691	3,409	3,806	1,750	1,533
60%	1,500	1,638	1,871	1,700	2,304	1,775	2,056	1,977	2,570	3,366	1,750	1,533
70%	1,497	1,499	1,565	1,700	1,537	1,447	1,750	1,619	2,245	3,053	1,750	1,533
80%	1,030	1,066	1,066	1,424	1,391	898	1,192	1,259	1,830	2,496	1,032	928
90%	800	800	800	922	1,084	800	801	889	1,158	1,037	800	800
Long Term												
Full Simulation Period[a]	1,569	2,265	3,656	4,814	5,793	3,959	3,317	3,392	3,505	3,598	1,881	2,044
Water Year Types[b]												
Wet (32%)	1,593	2,970	6,794	10,125	10,463	6,454	5,368	5,754	4,850	3,755	2,391	3,391
Above Normal (15%)	1,515	2,802	3,011	4,934	7,510	5,813	3,353	3,412	3,570	4,569	1,959	2,115
Below Normal (17%)	1,778	1,715	2,948	2,106	4,869	2,621	3,130	2,767	3,294	4,641	2,097	1,453
Dry (22%)	1,380	1,703	1,578	1,532	1,729	2,207	1,838	1,824	3,174	3,181	1,437	1,364
Critical (15%)	1,612	1,682	1,448	1,272	1,130	886	1,277	1,332	1,272	1,698	1,107	761

Alternative 2D (ELT) minus No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4	-89	131	0	0	0	0	0	0	0	-233	-340
20%	-70	-815	490	85	-74	1	16	353	417	0	-490	-563
30%	-72	-667	31	-280	136	234	15	137	566	9	-434	-966
40%	0	-53	0	-110	42	-1	17	68	1,079	445	-381	-721
50%	0	0	0	0	130	0	0	442	1,105	93	-266	-535
60%	0	-45	-72	0	286	-90	-14	227	655	215	-34	-38
70%	110	64	-40	25	91	68	228	174	495	289	0	0
80%	-42	-87	-113	76	43	-25	47	160	302	196	-38	-31
90%	-2	-8	0	17	146	0	1	87	76	-417	0	0
Long Term												
Full Simulation Period[a]	13	-254	40	-42	77	12	41	148	463	81	-221	-347
Water Year Types[b]												
Wet (32%)	-102	-457	123	11	41	0	0	80	329	179	-181	-597
Above Normal (15%)	-92	-389	-76	-7	290	50	-3	263	659	-65	-203	-517
Below Normal (17%)	268	-264	91	-201	130	0	20	302	742	87	-217	-471
Dry (22%)	-98	-18	-64	-90	-40	23	61	141	648	86	-325	-11
Critical (15%)	237	-22	74	63	57	-4	167	12	-46	4	-173	3

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-58-6. American River d/s of Nimbus Dam, Monthly Flow

No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,491	3,691	8,361	11,923	14,287	9,608	6,912	8,027	5,382	5,000	3,215	4,280
20%	1,836	2,926	3,309	7,615	10,320	5,820	4,980	4,387	4,207	5,000	2,972	4,008
30%	1,572	2,592	2,000	5,026	6,864	4,311	4,140	3,519	3,578	4,991	2,657	3,386
40%	1,500	1,978	2,000	2,850	5,040	3,847	3,211	3,133	2,898	4,088	2,327	2,557
50%	1,500	1,925	2,000	1,750	3,124	2,593	2,313	2,249	2,304	3,713	2,016	2,068
60%	1,500	1,683	1,943	1,700	2,018	1,866	2,070	1,750	1,914	3,151	1,784	1,572
70%	1,388	1,436	1,605	1,675	1,445	1,379	1,522	1,445	1,750	2,764	1,750	1,533
80%	1,072	1,153	1,179	1,348	1,348	923	1,145	1,098	1,528	2,300	1,070	959
90%	802	808	800	905	939	800	800	802	1,082	1,455	800	800
Long Term												
Full Simulation Period[a]	1,556	2,519	3,616	4,856	5,716	3,947	3,277	3,243	3,042	3,517	2,101	2,391
Water Year Types[b]												
Wet (32%)	1,695	3,428	6,672	10,114	10,422	6,454	5,368	5,673	4,521	3,575	2,572	3,988
Above Normal (15%)	1,607	3,190	3,087	4,940	7,220	5,763	3,356	3,148	2,911	4,634	2,162	2,632
Below Normal (17%)	1,510	1,979	2,857	2,306	4,739	2,622	3,110	2,465	2,551	4,555	2,314	1,924
Dry (22%)	1,478	1,721	1,641	1,622	1,769	2,185	1,777	1,684	2,526	3,095	1,762	1,375
Critical (15%)	1,375	1,704	1,373	1,209	1,073	889	1,110	1,320	1,317	1,694	1,280	758

Alternative 4A (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,633	2,882	8,410	11,923	14,287	9,608	6,912	8,027	5,382	5,000	3,034	4,267
20%	2,094	2,240	3,809	7,705	10,276	5,819	4,990	4,387	4,511	4,613	2,361	3,802
30%	1,685	1,972	2,022	4,772	7,000	4,543	4,155	3,543	4,177	4,145	1,988	3,047
40%	1,523	1,925	2,000	2,946	5,040	3,846	3,053	3,137	3,996	3,832	1,805	2,126
50%	1,500	1,897	2,000	1,806	3,300	2,593	2,275	2,283	3,415	3,461	1,750	1,533
60%	1,500	1,683	1,963	1,700	2,161	1,750	1,961	1,750	2,902	3,128	1,750	1,533
70%	1,500	1,586	1,681	1,700	1,445	1,414	1,522	1,445	2,270	2,870	1,750	1,525
80%	1,178	1,275	1,178	1,427	1,312	926	1,113	1,162	1,769	2,441	1,151	938
90%	802	885	800	901	1,176	800	801	804	1,145	1,439	800	800
Long Term												
Full Simulation Period[a]	1,670	2,313	3,669	4,894	5,781	3,954	3,264	3,253	3,519	3,381	1,849	2,227
Water Year Types[b]												
Wet (32%)	1,837	3,055	6,821	10,176	10,475	6,454	5,368	5,673	4,889	3,668	2,291	3,767
Above Normal (15%)	1,492	2,863	3,074	5,090	7,460	5,815	3,351	3,147	3,234	4,467	2,044	2,540
Below Normal (17%)	1,836	1,749	2,906	2,183	4,837	2,621	3,112	2,461	3,588	4,060	2,028	1,501
Dry (22%)	1,405	1,707	1,585	1,652	1,702	2,182	1,727	1,725	3,131	2,850	1,516	1,358
Critical (15%)	1,694	1,719	1,451	1,280	1,148	887	1,100	1,330	1,337	1,682	990	731

Alternative 4A (ELT) minus No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	142	-810	49	0	0	0	0	0	0	0	-180	-13
20%	258	-685	500	90	-45	-1	10	-1	304	-387	-612	-207
30%	113	-620	22	-254	136	233	15	24	599	-846	-668	-339
40%	23	-53	0	97	0	-1	-158	4	1,098	-257	-523	-431
50%	0	-28	0	56	177	0	-38	34	1,111	-252	-266	-535
60%	0	0	20	0	143	-116	-109	0	987	-23	-34	-38
70%	112	151	75	25	0	35	0	0	520	106	0	-8
80%	106	122	-1	79	-36	3	-32	64	241	141	81	-21
90%	0	77	0	-4	237	0	1	2	63	-15	0	0
Long Term												
Full Simulation Period[a]	114	-206	53	38	65	7	-13	9	477	-135	-252	-163
Water Year Types[b]												
Wet (32%)	142	-373	149	62	53	0	0	-1	368	92	-281	-221
Above Normal (15%)	-116	-328	-13	150	240	52	-5	-2	324	-167	-118	-92
Below Normal (17%)	325	-230	49	-123	98	-1	1	-4	1,036	-495	-285	-424
Dry (22%)	-73	-14	-57	30	-67	-3	-50	41	604	-245	-247	-17
Critical (15%)	319	15	77	71	75	-2	-9	10	20	-12	-290	-27

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-58-7. American River d/s of Nimbus Dam, Monthly Flow

No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,491	3,691	8,361	11,923	14,287	9,608	6,912	8,027	5,382	5,000	3,215	4,280
20%	1,836	2,926	3,309	7,615	10,320	5,820	4,980	4,387	4,207	5,000	2,972	4,008
30%	1,572	2,592	2,000	5,026	6,864	4,311	4,140	3,519	3,578	4,991	2,657	3,386
40%	1,500	1,978	2,000	2,850	5,040	3,847	3,211	3,133	2,898	4,088	2,327	2,557
50%	1,500	1,925	2,000	1,750	3,124	2,593	2,313	2,249	2,304	3,713	2,016	2,068
60%	1,500	1,683	1,943	1,700	2,018	1,866	2,070	1,750	1,914	3,151	1,784	1,572
70%	1,388	1,436	1,605	1,675	1,445	1,379	1,522	1,445	1,750	2,764	1,750	1,533
80%	1,072	1,153	1,179	1,348	1,348	923	1,145	1,098	1,528	2,300	1,070	959
90%	802	808	800	905	939	800	800	802	1,082	1,455	800	800
Long Term												
Full Simulation Period[a]	1,556	2,519	3,616	4,856	5,716	3,947	3,277	3,243	3,042	3,517	2,101	2,391
Water Year Types[b]												
Wet (32%)	1,695	3,428	6,672	10,114	10,422	6,454	5,368	5,673	4,521	3,575	2,572	3,988
Above Normal (15%)	1,607	3,190	3,087	4,940	7,220	5,763	3,356	3,148	2,911	4,634	2,162	2,632
Below Normal (17%)	1,510	1,979	2,857	2,306	4,739	2,622	3,110	2,465	2,551	4,555	2,314	1,924
Dry (22%)	1,478	1,721	1,641	1,622	1,769	2,185	1,777	1,684	2,526	3,095	1,762	1,375
Critical (15%)	1,375	1,704	1,373	1,209	1,073	889	1,110	1,320	1,317	1,694	1,280	758

Alternative 5A (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,067	3,195	8,431	11,923	14,287	8,764	6,912	8,027	5,382	5,000	3,071	4,073
20%	1,805	2,360	4,003	7,698	10,321	5,820	4,988	4,359	4,876	5,000	2,741	3,455
30%	1,563	1,998	2,000	5,288	7,000	4,545	4,129	3,517	4,241	5,000	2,268	2,528
40%	1,500	1,925	2,000	2,850	5,126	3,847	3,209	3,024	3,723	4,688	2,104	1,865
50%	1,500	1,925	2,000	1,750	3,450	2,593	2,275	2,321	3,425	4,032	1,783	1,533
60%	1,500	1,683	1,859	1,700	2,323	1,866	2,061	1,784	2,448	3,335	1,750	1,533
70%	1,358	1,370	1,521	1,700	1,537	1,467	1,600	1,480	2,133	3,054	1,750	1,525
80%	1,042	1,146	1,055	1,488	1,355	963	1,186	1,174	1,750	2,560	1,092	965
90%	800	800	800	888	980	800	811	831	1,108	1,717	800	800
Long Term												
Full Simulation Period[a]	1,513	2,307	3,644	4,874	5,773	3,934	3,286	3,263	3,478	3,683	1,944	2,080
Water Year Types[b]												
Wet (32%)	1,609	3,035	6,790	10,144	10,441	6,454	5,368	5,707	4,732	3,919	2,526	3,405
Above Normal (15%)	1,685	2,946	3,030	4,941	7,353	5,802	3,353	3,187	3,371	4,947	2,016	2,224
Below Normal (17%)	1,512	1,797	2,898	2,305	4,909	2,621	3,111	2,570	3,427	4,211	2,101	1,515
Dry (22%)	1,373	1,629	1,608	1,665	1,790	2,117	1,793	1,739	2,978	3,462	1,456	1,356
Critical (15%)	1,342	1,704	1,367	1,202	1,062	865	1,155	1,140	1,674	1,621	1,157	812

Alternative 5A (ELT) minus No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-424	-497	70	0	0	-843	0	0	0	0	-144	-206
20%	-31	-566	694	83	0	0	8	-29	669	0	-231	-553
30%	-9	-594	0	262	136	234	-11	-3	663	9	-388	-858
40%	0	-53	0	0	86	0	-2	-109	824	600	-223	-692
50%	0	0	0	0	327	0	-38	72	1,121	318	-233	-535
60%	0	0	-84	0	305	0	-8	34	533	184	-34	-38
70%	-29	-65	-85	25	91	88	78	35	383	290	0	-8
80%	-30	-8	-125	139	7	40	41	76	222	260	22	7
90%	-2	-8	0	-17	42	0	11	30	26	262	0	0
Long Term												
Full Simulation Period[a]	-43	-212	28	18	57	-13	10	20	435	166	-158	-311
Water Year Types[b]												
Wet (32%)	-86	-393	118	30	19	0	0	34	212	343	-46	-583
Above Normal (15%)	78	-245	-57	0	133	39	-3	39	460	313	-146	-408
Below Normal (17%)	2	-183	41	-1	170	0	1	105	876	-344	-213	-410
Dry (22%)	-105	-92	-34	43	21	-68	16	55	452	367	-306	-20
Critical (15%)	-32	0	-6	-7	-11	-25	45	-180	356	-73	-123	54

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

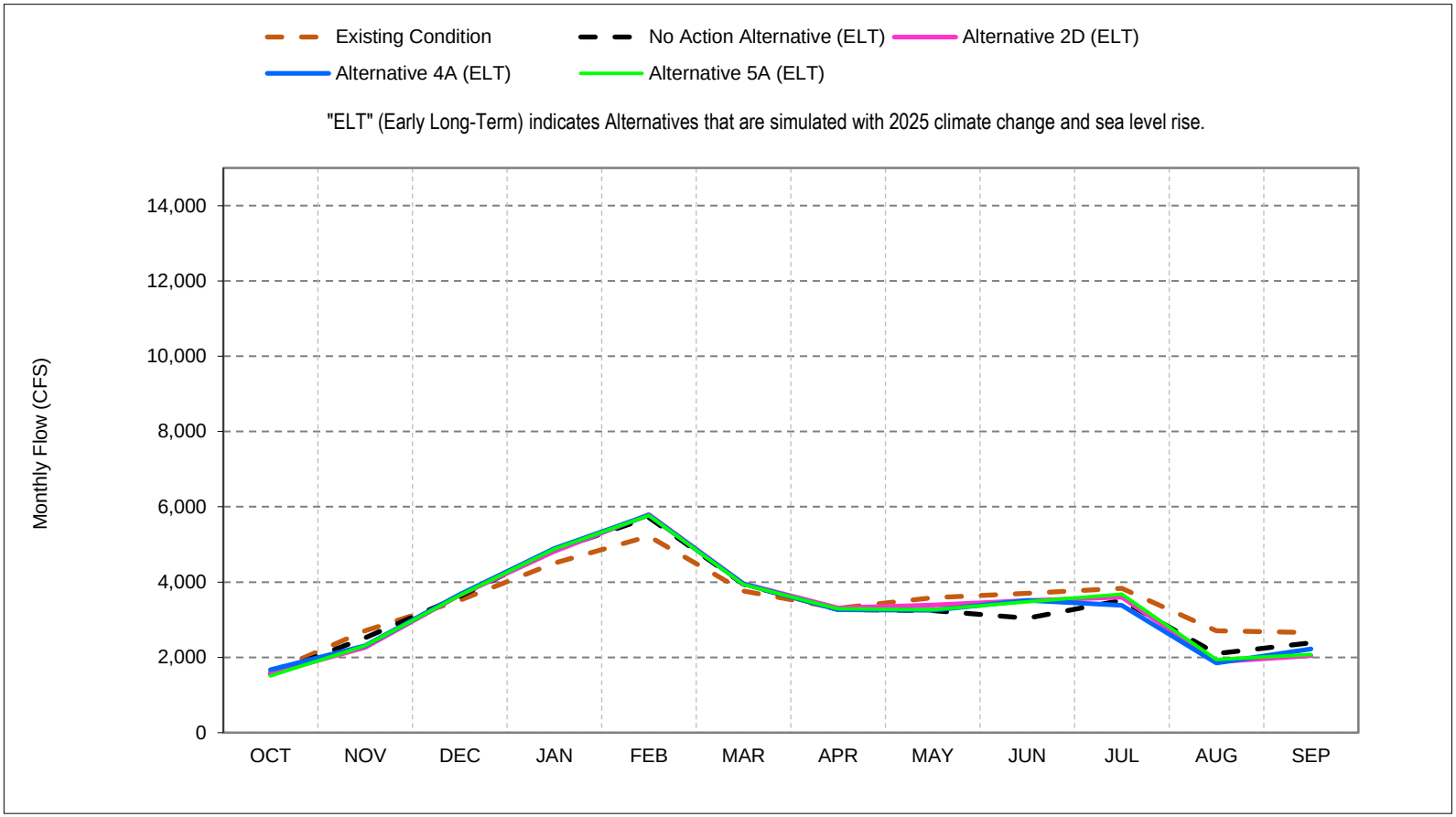
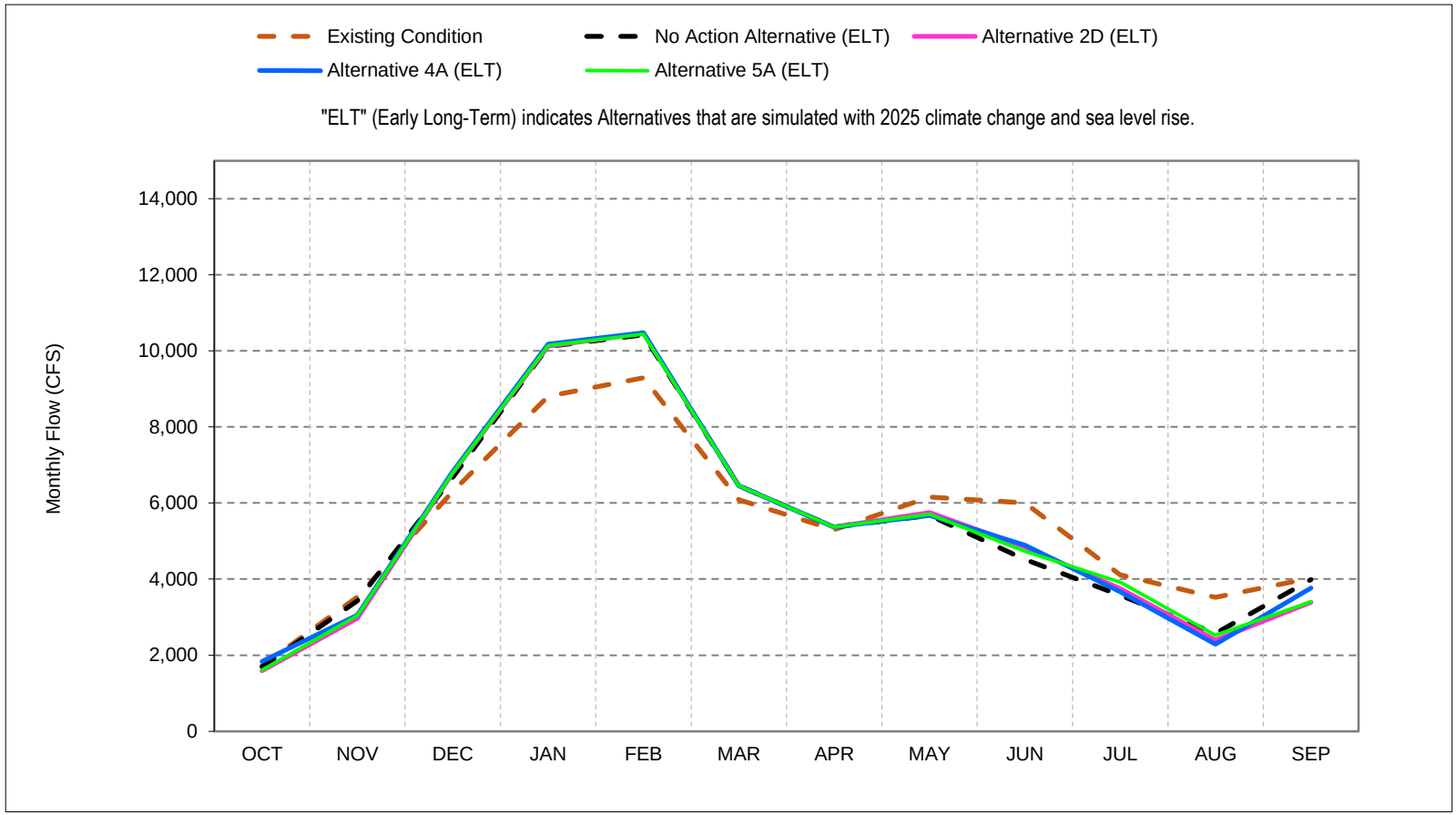
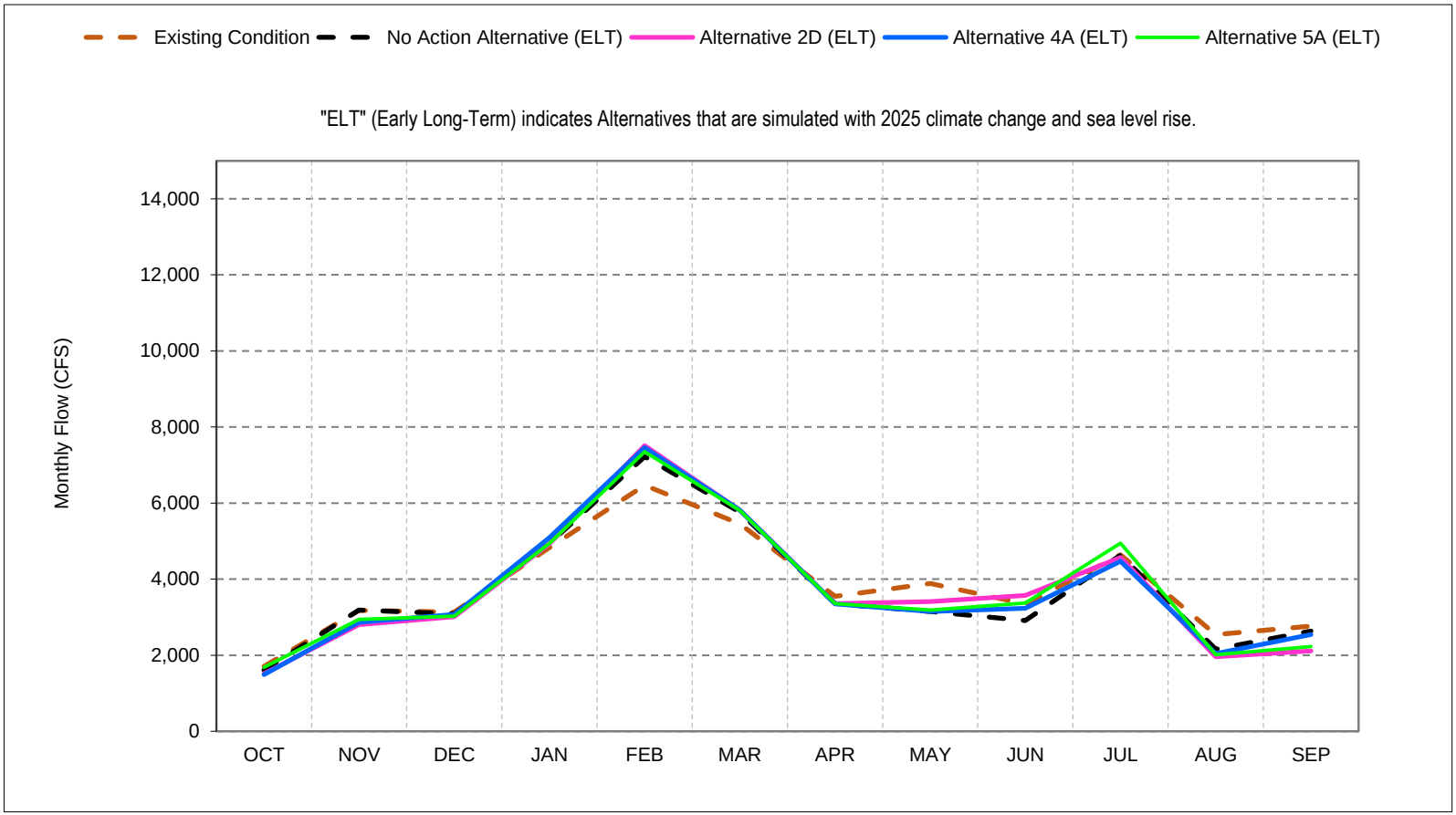


Figure C-58-1. American River d/s of Nimbus Dam, Long-Term Average Flow



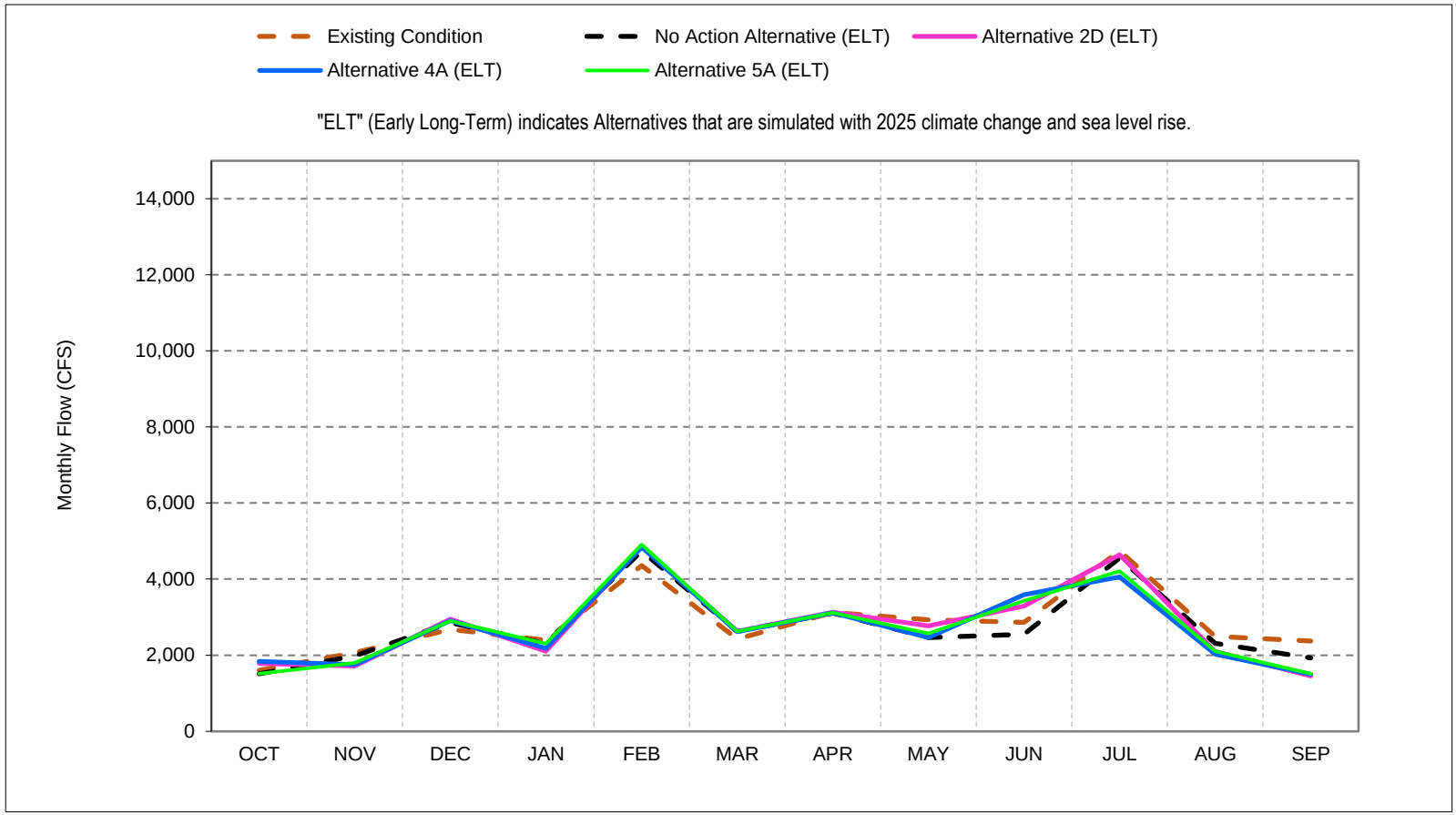
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-58-2. American River d/s of Nimbus Dam, Wet Year* Average Flow



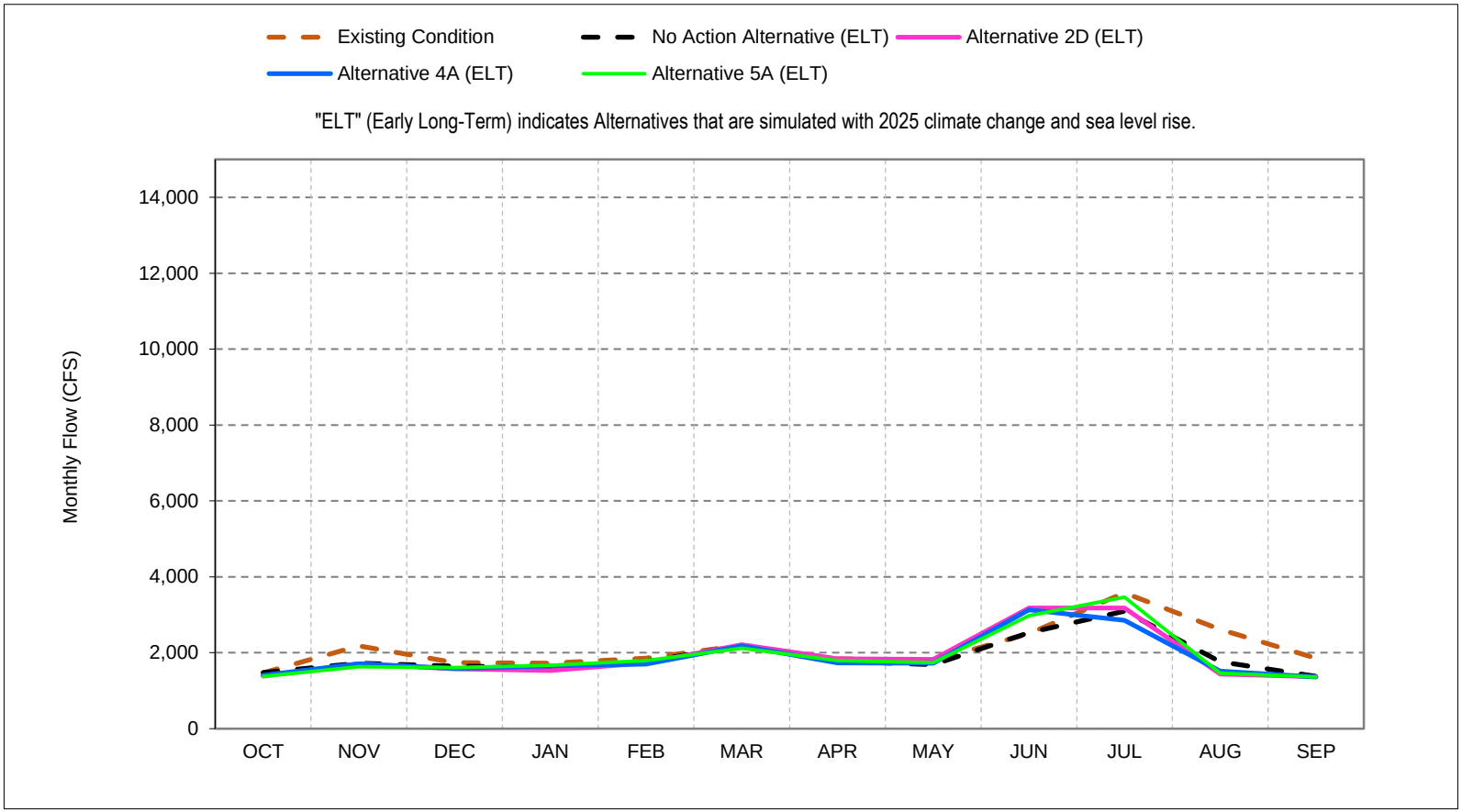
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-58-3. American River d/s of Nimbus Dam, Above Normal Year* Average Flow



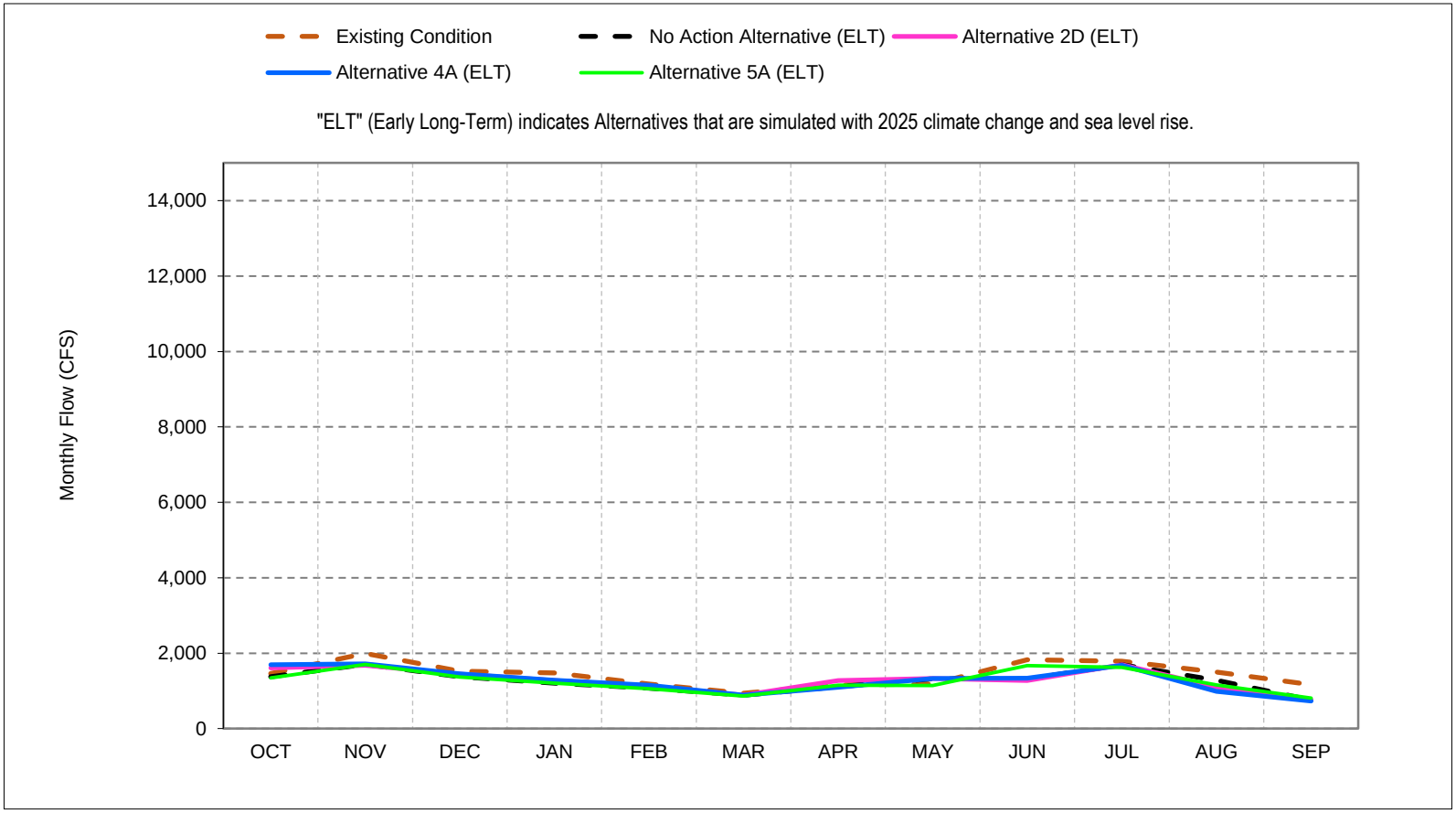
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-58-4. American River d/s of Nimbus Dam, Below Normal Year* Average Flow



*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-58-5. American River d/s of Nimbus Dam, Dry Year* Average Flow



*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-58-6. American River d/s of Nimbus Dam, Critical Year* Average Flow

C.59. Sacramento River Flow at Freeport

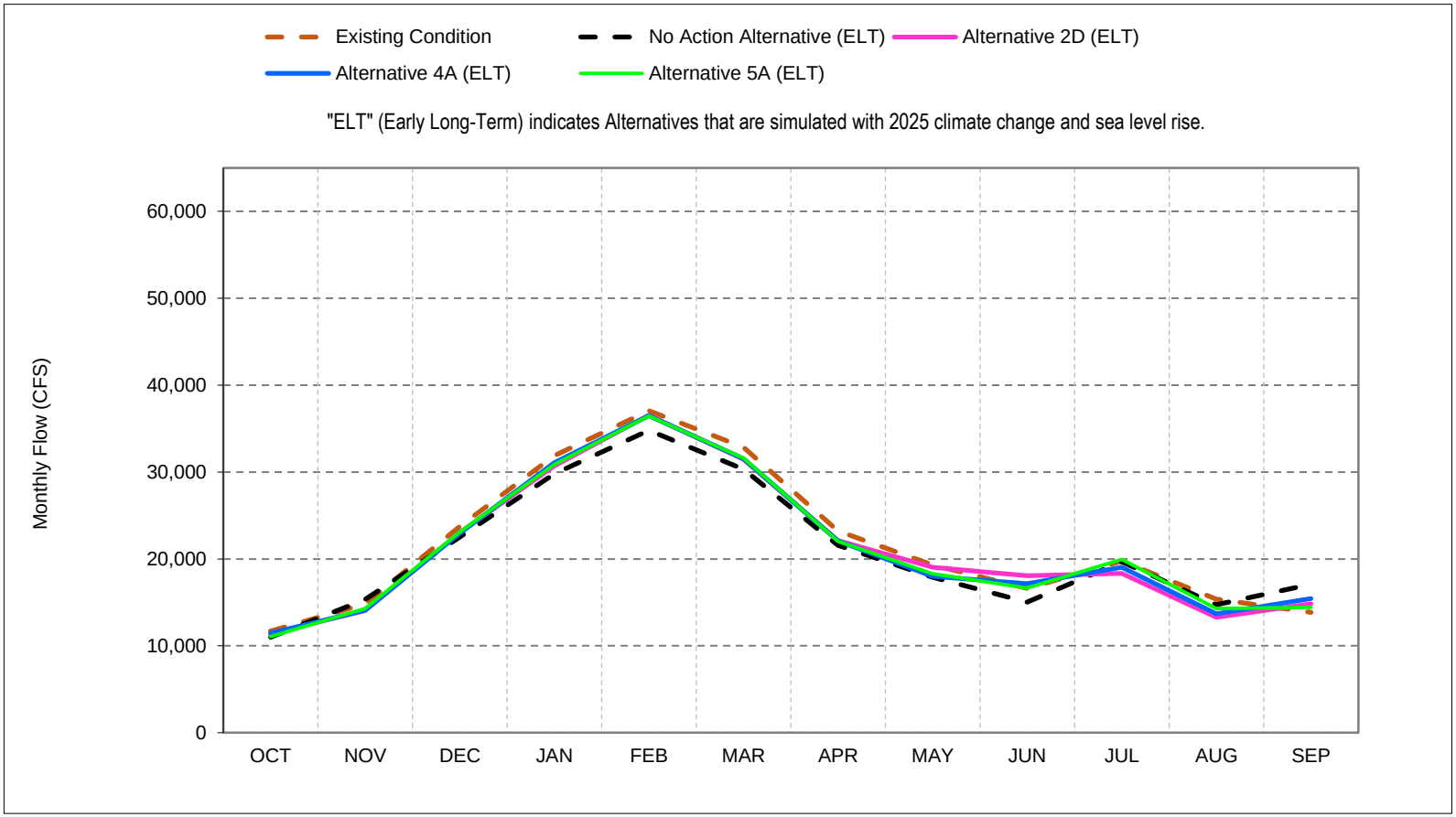
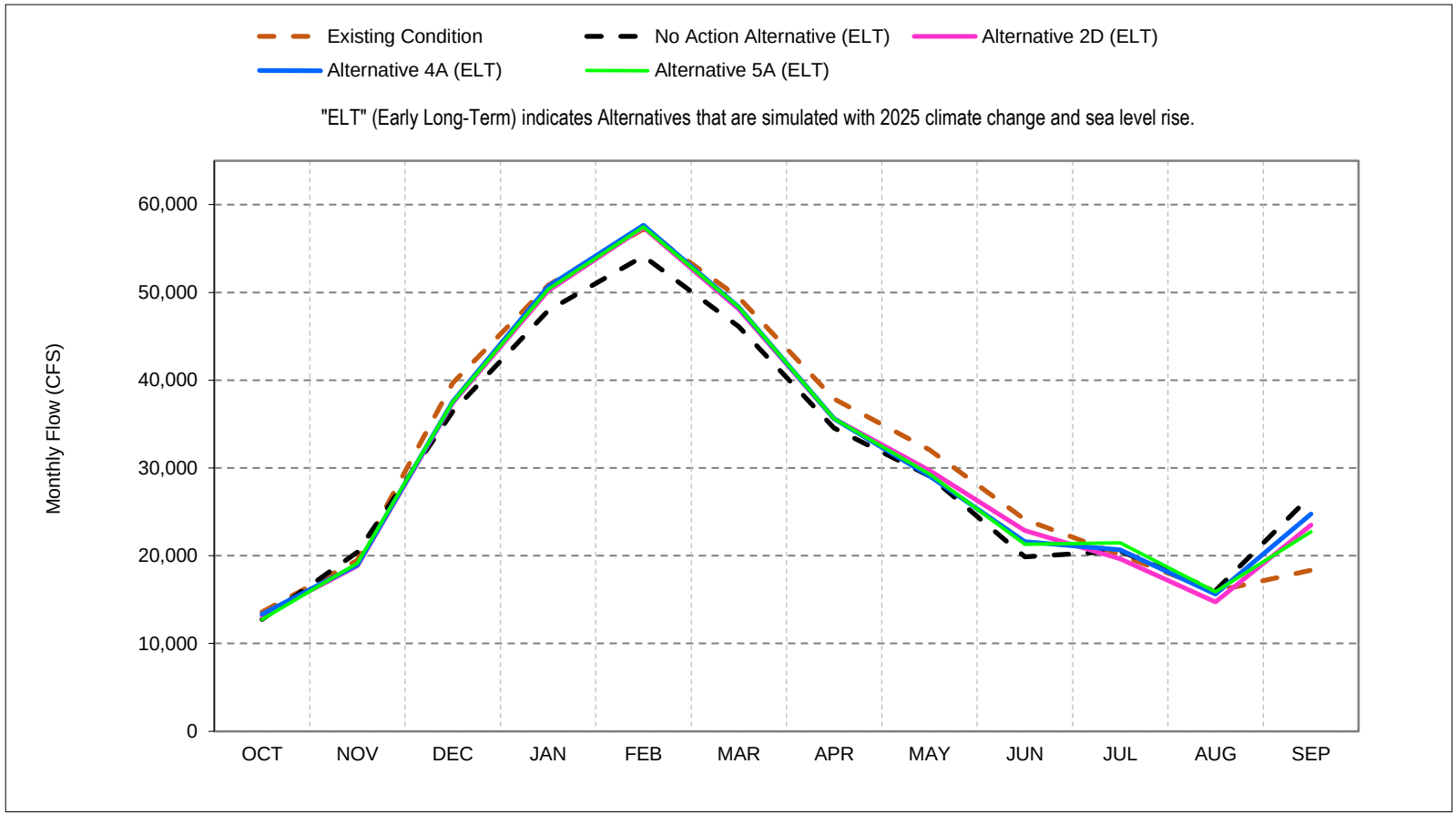
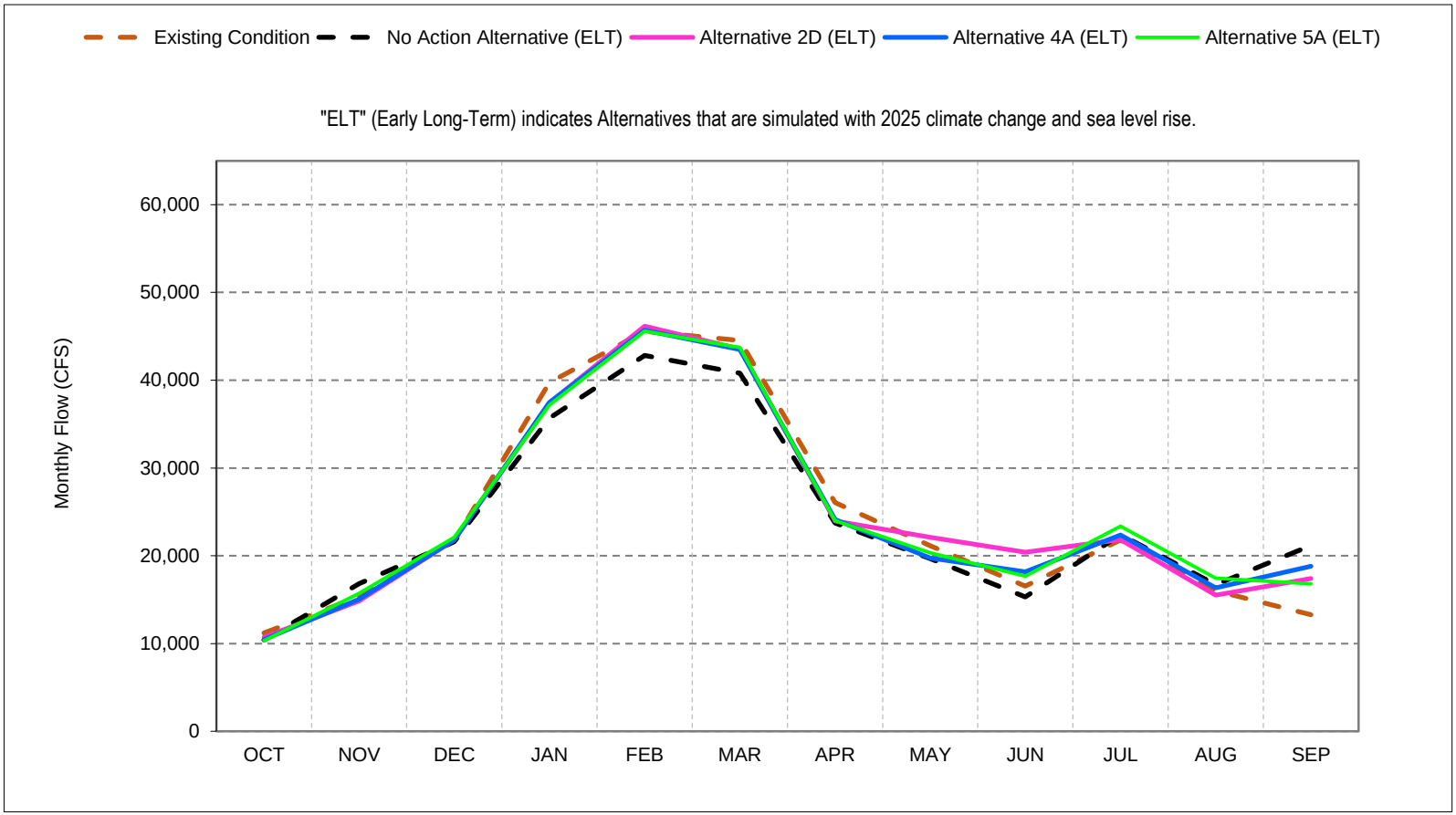


Figure C-59-1. Sacramento River at Freeport, Long-Term Average Flow



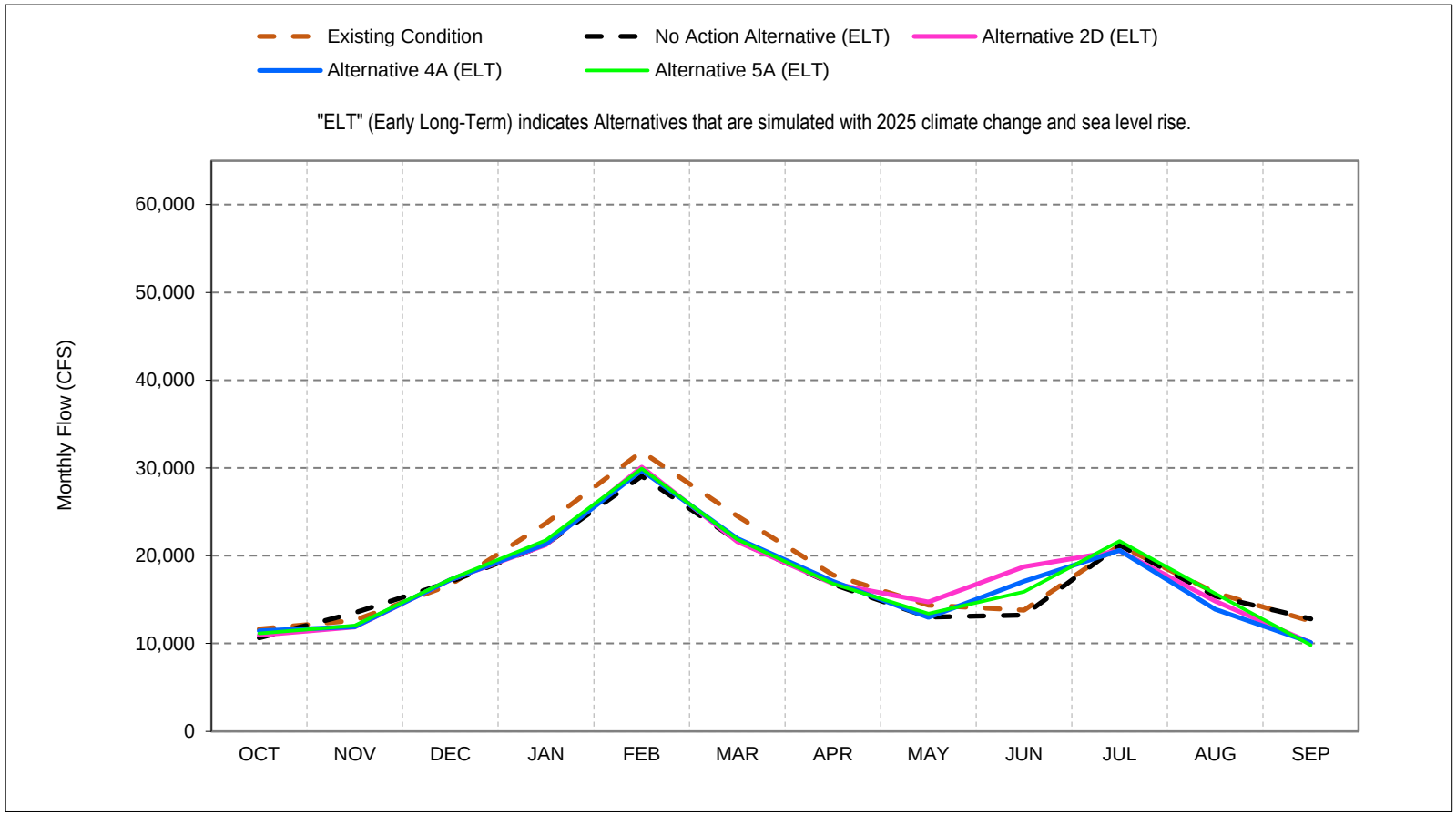
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-59-2. Sacramento River at Freeport, Wet Year* Average Flow



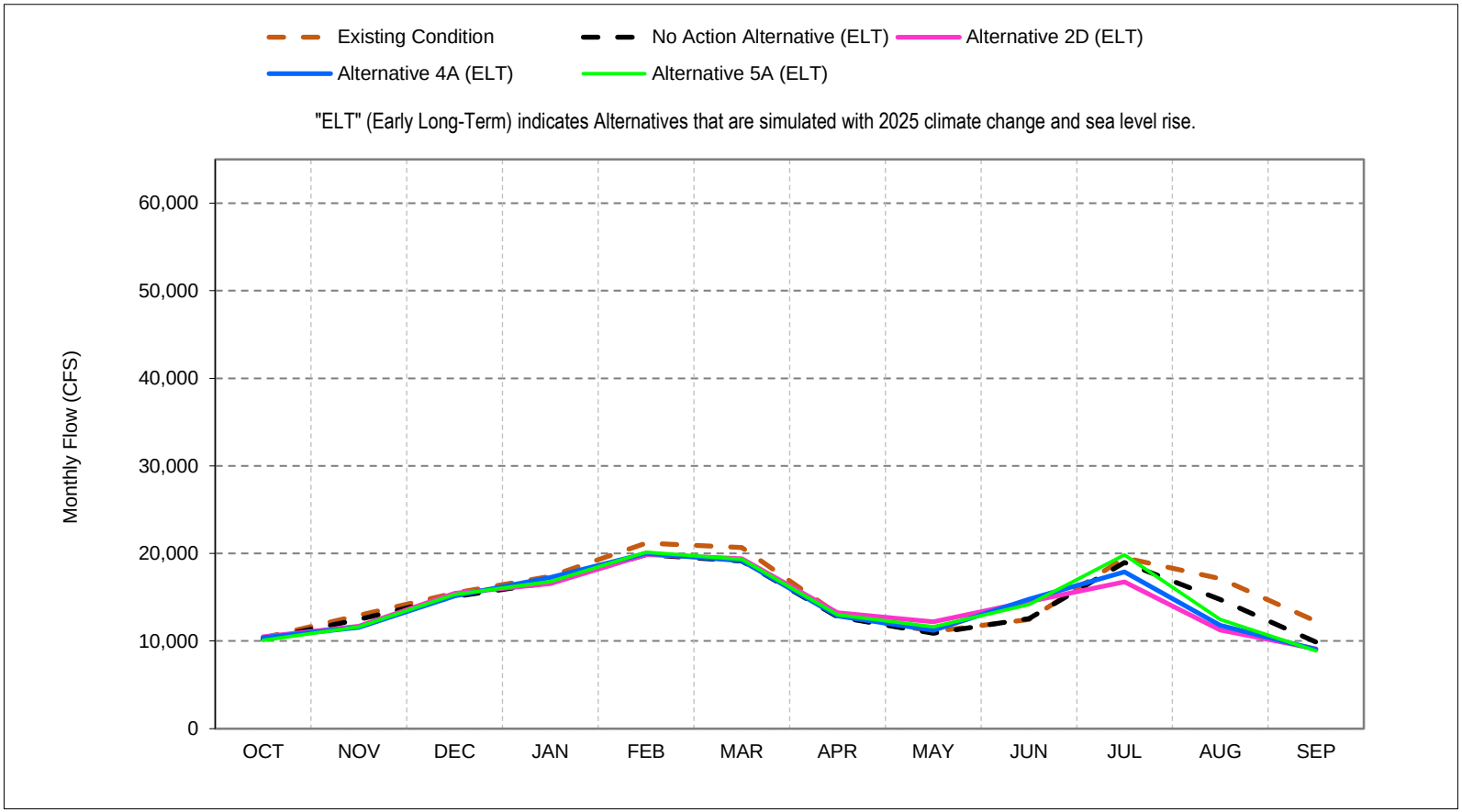
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-59-3. Sacramento River at Freeport, Above Normal Year* Average Flow



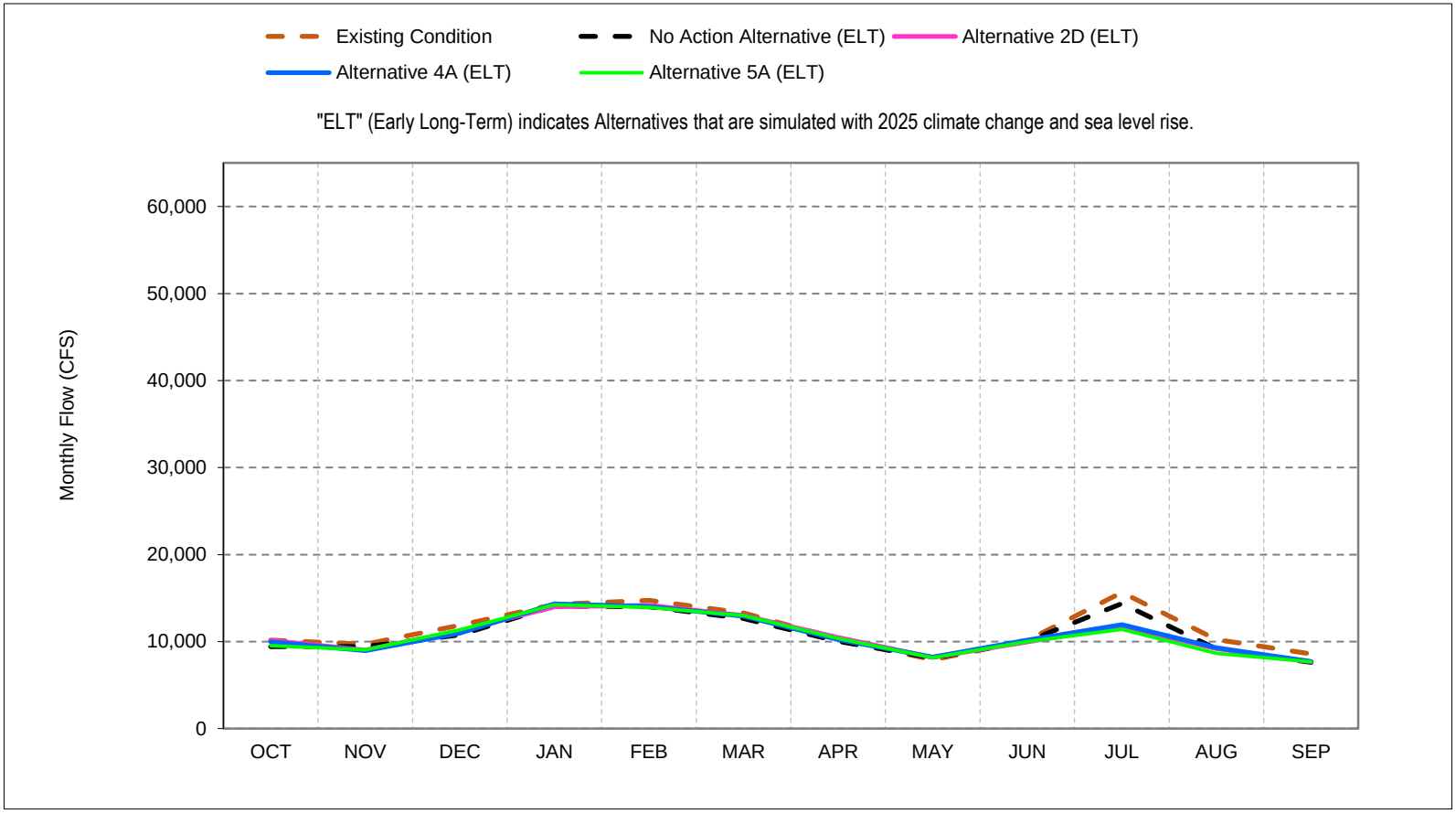
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-59-4. Sacramento River at Freeport, Below Normal Year* Average Flow



*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-59-5. Sacramento River at Freeport, Dry Year* Average Flow



*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-59-6. Sacramento River at Freeport, Critical Year* Average Flow

Table C-59-1. Sacramento River at Freeport, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	15,407	24,427	51,094	63,434	68,256	61,156	50,243	41,972	26,032	23,545	18,025	19,590
20%	13,765	15,847	36,152	56,012	60,934	51,777	38,496	27,859	20,410	22,708	17,588	17,116
30%	12,858	14,563	24,821	41,045	51,013	43,112	23,516	18,662	15,247	21,374	16,921	14,104
40%	11,766	13,576	18,406	30,911	43,446	33,804	20,554	15,293	13,924	20,443	16,605	13,660
50%	11,278	12,179	16,439	24,758	33,438	27,155	16,221	13,689	13,373	19,911	16,172	13,212
60%	10,626	11,177	15,011	19,442	24,695	22,066	13,316	12,101	12,691	19,645	15,692	12,776
70%	9,804	10,841	12,950	15,694	19,946	19,191	12,034	10,982	12,374	19,278	15,229	12,051
80%	9,000	9,642	11,585	13,339	14,885	15,383	11,232	10,131	11,721	17,257	13,450	11,043
90%	7,694	8,451	9,896	12,533	13,059	11,666	9,806	8,901	10,361	14,669	10,150	8,062
Long Term												
Full Simulation Period[a]	11,696	14,834	23,734	31,874	37,057	32,865	23,236	19,303	16,633	19,748	15,358	13,847
Water Year Types[b]												
Wet (32%)	13,583	19,472	39,674	50,800	57,222	49,436	37,854	32,064	24,106	20,096	15,965	18,351
Above Normal (15%)	11,200	15,357	21,658	39,719	45,570	44,531	26,041	21,138	16,526	21,793	16,021	13,297
Below Normal (17%)	11,642	12,633	16,695	23,705	31,864	24,520	17,823	14,366	13,793	21,176	15,792	12,522
Dry (22%)	10,366	12,920	15,471	17,397	21,179	20,684	13,066	11,093	12,451	19,498	17,113	12,250
Critical (15%)	10,161	9,703	11,879	14,265	14,732	13,300	10,325	7,897	10,133	15,656	10,242	8,580

No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,257	21,654	48,466	59,218	66,059	56,252	44,595	39,227	20,209	24,509	17,570	29,155
20%	13,404	18,487	33,573	51,609	57,520	48,831	31,862	25,644	16,132	23,915	17,230	26,974
30%	12,471	16,789	22,225	36,900	44,825	37,182	23,036	16,681	13,825	23,132	16,896	22,178
40%	11,742	15,951	17,924	24,249	41,302	29,292	19,865	13,339	13,331	21,173	16,498	20,680
50%	10,814	13,970	15,408	21,556	30,963	23,632	15,545	12,318	12,892	20,120	15,765	13,163
60%	9,345	12,347	14,210	18,222	22,829	20,710	12,853	11,251	12,404	18,862	15,186	11,785
70%	9,053	10,667	13,453	15,804	17,696	18,503	11,361	10,573	11,990	17,920	13,894	10,614
80%	8,404	8,635	12,611	13,508	14,857	14,291	10,623	10,112	11,615	16,554	13,081	8,874
90%	7,322	7,702	9,449	12,293	12,499	11,190	9,755	8,826	10,299	13,530	8,207	7,472
Long Term												
Full Simulation Period[a]	10,996	15,350	22,496	29,781	34,801	30,343	21,555	17,903	15,028	19,677	14,736	17,078
Water Year Types[b]												
Wet (32%)	12,738	20,414	36,411	47,934	54,125	46,109	34,554	29,081	19,866	20,547	16,035	26,855
Above Normal (15%)	10,409	16,822	21,591	35,666	42,818	40,794	23,738	19,665	15,299	22,408	16,718	21,155
Below Normal (17%)	10,636	13,491	17,010	21,292	29,069	21,683	16,736	13,015	13,243	21,191	15,403	12,798
Dry (22%)	10,199	12,445	15,071	16,681	19,864	19,136	12,758	10,899	12,577	18,961	14,749	9,879
Critical (15%)	9,422	9,433	10,789	14,119	14,010	12,647	10,027	8,127	10,033	14,372	9,145	7,612

No Action Alternative (ELT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,150	-2,773	-2,627	-4,216	-2,197	-4,904	-5,648	-2,745	-5,822	964	-455	9,565
20%	-360	2,640	-2,578	-4,403	-3,413	-2,946	-6,634	-2,215	-4,279	1,208	-357	9,859
30%	-388	2,227	-2,596	-4,145	-6,187	-5,930	-480	-1,981	-1,422	1,758	-25	8,074
40%	-24	2,375	-482	-6,662	-2,144	-4,512	-689	-1,954	-593	730	-107	7,020
50%	-464	1,791	-1,031	-3,202	-2,476	-3,523	-675	-1,370	-481	209	-407	-49
60%	-1,282	1,170	-801	-1,221	-1,866	-1,356	-463	-850	-287	-783	-505	-991
70%	-750	-174	503	110	-2,250	-688	-673	-410	-385	-1,359	-1,335	-1,436
80%	-596	-1,007	1,026	168	-28	-1,092	-609	-19	-105	-703	-369	-2,169
90%	-372	-749	-447	-240	-561	-476	-51	-75	-62	-1,139	-1,943	-590
Long Term												
Full Simulation Period[a]	-700	516	-1,238	-2,092	-2,256	-2,522	-1,680	-1,401	-1,605	-70	-622	3,231
Water Year Types[b]												
Wet (32%)	-845	941	-3,262	-2,866	-3,097	-3,328	-3,300	-2,983	-4,240	451	71	8,504
Above Normal (15%)	-792	1,465	-67	-4,053	-2,751	-3,738	-2,303	-1,473	-1,227	615	696	7,858
Below Normal (17%)	-1,006	858	316	-2,412	-2,796	-2,837	-1,087	-1,350	-549	14	-390	277
Dry (22%)	-167	-475	-400	-717	-1,315	-1,548	-308	-193	126	-538	-2,364	-2,371
Critical (15%)	-738	-269	-1,090	-146	-722	-653	-297	230	-100	-1,284	-1,097	-969

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-59-2. Sacramento River at Freeport, Monthly Flow

Existing Condition

Statistic	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	15,407	24,427	51,094	63,434	68,256	61,156	50,243	41,972	26,032	23,545	18,025	19,590
20%	13,765	15,847	36,152	56,012	60,934	51,777	38,496	27,859	20,410	22,708	17,588	17,116
30%	12,858	14,563	24,821	41,045	51,013	43,112	23,516	18,662	15,247	21,374	16,921	14,104
40%	11,766	13,576	18,406	30,911	43,446	33,804	20,554	15,293	13,924	20,443	16,605	13,660
50%	11,278	12,179	16,439	24,758	33,438	27,155	16,221	13,689	13,373	19,911	16,172	13,212
60%	10,626	11,177	15,011	19,442	24,695	22,066	13,316	12,101	12,691	19,645	15,692	12,776
70%	9,804	10,841	12,950	15,694	19,946	19,191	12,034	10,982	12,374	19,278	15,229	12,051
80%	9,000	9,642	11,585	13,339	14,885	15,383	11,232	10,131	11,721	17,257	13,450	11,043
90%	7,694	8,451	9,896	12,533	13,059	11,666	9,806	8,901	10,361	14,669	10,150	8,062
Long Term												
Full Simulation Period[a]	11,696	14,834	23,734	31,874	37,057	32,865	23,236	19,303	16,633	19,748	15,358	13,847
Water Year Types[b]												
Wet (32%)	13,583	19,472	39,674	50,800	57,222	49,436	37,854	32,064	24,106	20,096	15,965	18,351
Above Normal (15%)	11,200	15,357	21,658	39,719	45,570	44,531	26,041	21,138	16,526	21,793	16,021	13,297
Below Normal (17%)	11,642	12,633	16,695	23,705	31,864	24,520	17,823	14,366	13,793	21,176	15,792	12,522
Dry (22%)	10,366	12,920	15,471	17,397	21,179	20,684	13,066	11,093	12,451	19,498	17,113	12,250
Critical (15%)	10,161	9,703	11,879	14,265	14,732	13,300	10,325	7,897	10,133	15,656	10,242	8,580

Alternative 2D (ELT)

Statistic	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,077	21,753	49,126	64,930	69,721	62,029	46,267	39,230	24,676	23,707	17,724	23,840
20%	12,723	15,425	34,257	55,959	60,866	50,502	31,857	26,267	22,855	22,572	16,274	22,903
30%	12,197	14,362	22,246	38,249	47,775	39,598	23,038	19,270	20,602	21,719	15,076	21,543
40%	11,916	13,103	18,420	26,394	43,669	28,938	19,881	15,597	19,254	20,087	13,820	15,740
50%	11,383	12,061	15,366	21,888	30,225	24,066	15,641	13,492	17,437	18,940	13,036	11,392
60%	10,984	10,896	13,973	18,151	22,969	20,736	12,770	12,757	14,388	17,661	12,136	9,563
70%	10,338	9,969	13,576	14,619	18,114	18,272	11,999	11,588	12,535	16,333	11,554	9,224
80%	9,508	8,602	12,969	13,499	14,950	15,244	11,221	10,815	11,820	14,052	10,212	8,465
90%	7,537	7,697	9,743	11,654	12,263	11,598	10,346	8,895	10,294	11,559	8,580	7,804
Long Term												
Full Simulation Period[a]	11,385	14,061	23,027	30,702	36,532	31,479	22,109	19,040	18,076	18,328	13,287	14,840
Water Year Types[b]												
Wet (32%)	13,144	18,856	37,409	50,192	57,396	48,106	35,614	29,692	22,848	19,642	14,716	23,483
Above Normal (15%)	10,730	14,830	21,785	37,453	46,158	43,569	23,973	22,113	20,406	21,838	15,503	17,410
Below Normal (17%)	10,929	11,881	17,239	21,221	30,098	21,613	16,820	14,719	18,744	20,563	14,836	10,092
Dry (22%)	10,475	11,688	15,437	16,561	19,882	19,399	13,241	12,195	14,519	16,742	11,258	9,106
Critical (15%)	10,130	9,010	11,250	13,994	14,184	12,992	10,456	8,199	9,965	11,740	9,209	7,680

Alternative 2D (ELT) minus Existing Condition

Statistic	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,330	-2,674	-1,967	1,496	1,465	874	-3,975	-2,742	-1,356	162	-301	4,250
20%	-1,042	-422	-1,895	-53	-68	-1,275	-6,639	-1,592	2,445	-136	-1,314	5,788
30%	-662	-201	-2,575	-2,797	-3,237	-3,514	-478	608	5,355	345	-1,845	7,439
40%	151	-473	14	-4,517	223	-4,866	-673	304	5,330	-356	-2,785	2,080
50%	105	-118	-1,073	-2,869	-3,213	-3,089	-580	-196	4,064	-971	-3,136	-1,820
60%	358	-281	-1,038	-1,291	-1,726	-1,330	-546	657	1,696	-1,984	-3,555	-3,213
70%	534	-873	627	-1,074	-1,832	-919	-34	605	160	-2,945	-3,675	-2,827
80%	508	-1,040	1,383	159	65	-139	-11	684	99	-3,205	-3,238	-2,578
90%	-157	-754	-153	-879	-797	-68	540	-6	-67	-3,110	-1,571	-258
Long Term												
Full Simulation Period[a]	-311	-773	-706	-1,172	-525	-1,386	-1,127	-263	1,444	-1,420	-2,071	993
Water Year Types[b]												
Wet (32%)	-440	-616	-2,265	-609	175	-1,330	-2,240	-2,372	-1,257	-454	-1,248	5,132
Above Normal (15%)	-470	-527	127	-2,266	588	-962	-2,068	975	3,880	46	-518	4,114
Below Normal (17%)	-713	-752	544	-2,484	-1,767	-2,907	-1,003	353	4,951	-613	-956	-2,429
Dry (22%)	109	-1,233	-34	-837	-1,297	-1,285	175	1,103	2,067	-2,756	-5,855	-3,144
Critical (15%)	-31	-693	-629	-271	-548	-308	132	302	-168	-3,915	-1,033	-900

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-59-3. Sacramento River at Freeport, Monthly Flow

Existing Condition

Statistic	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	15,407	24,427	51,094	63,434	68,256	61,156	50,243	41,972	26,032	23,545	18,025	19,590
20%	13,765	15,847	36,152	56,012	60,934	51,777	38,496	27,859	20,410	22,708	17,588	17,116
30%	12,858	14,563	24,821	41,045	51,013	43,112	23,516	18,662	15,247	21,374	16,921	14,104
40%	11,766	13,576	18,406	30,911	43,446	33,804	20,554	15,293	13,924	20,443	16,605	13,660
50%	11,278	12,179	16,439	24,758	33,438	27,155	16,221	13,689	13,373	19,911	16,172	13,212
60%	10,626	11,177	15,011	19,442	24,695	22,066	13,316	12,101	12,691	19,645	15,692	12,776
70%	9,804	10,841	12,950	15,694	19,946	19,191	12,034	10,982	12,374	19,278	15,229	12,051
80%	9,000	9,642	11,585	13,339	14,885	15,383	11,232	10,131	11,721	17,257	13,450	11,043
90%	7,694	8,451	9,896	12,533	13,059	11,666	9,806	8,901	10,361	14,669	10,150	8,062
Long Term												
Full Simulation Period[a]	11,696	14,834	23,734	31,874	37,057	32,865	23,236	19,303	16,633	19,748	15,358	13,847
Water Year Types[b]												
Wet (32%)	13,583	19,472	39,674	50,800	57,222	49,436	37,854	32,064	24,106	20,096	15,965	18,351
Above Normal (15%)	11,200	15,357	21,658	39,719	45,570	44,531	26,041	21,138	16,526	21,793	16,021	13,297
Below Normal (17%)	11,642	12,633	16,695	23,705	31,864	24,520	17,823	14,366	13,793	21,176	15,792	12,522
Dry (22%)	10,366	12,920	15,471	17,397	21,179	20,684	13,066	11,093	12,451	19,498	17,113	12,250
Critical (15%)	10,161	9,703	11,879	14,265	14,732	13,300	10,325	7,897	10,133	15,656	10,242	8,580

Alternative 4A (ELT)

Statistic	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,459	21,836	49,634	64,267	69,721	62,076	46,271	39,238	21,273	23,519	18,231	26,022
20%	12,690	15,400	33,644	56,315	60,974	50,465	31,859	24,732	19,723	22,535	17,303	23,926
30%	12,313	14,567	22,296	38,417	49,163	40,007	23,158	16,717	18,681	21,761	15,933	22,420
40%	11,974	13,017	18,309	26,043	43,232	28,602	19,858	13,334	17,841	21,208	14,289	16,886
50%	11,542	12,085	15,417	22,134	30,277	24,427	15,679	12,417	16,596	20,171	13,227	10,204
60%	11,115	11,027	13,874	19,621	22,820	20,740	12,666	11,557	14,458	18,929	12,373	9,657
70%	10,457	9,668	13,461	15,010	17,807	18,502	11,619	10,827	13,034	17,977	11,534	9,266
80%	9,111	8,827	12,220	13,483	14,960	14,976	10,908	10,444	12,252	16,087	10,591	8,552
90%	7,916	7,841	9,481	12,421	11,752	11,602	9,954	8,651	10,783	11,992	9,559	7,887
Long Term												
Full Simulation Period[a]	11,457	14,092	22,963	31,079	36,486	31,536	22,064	17,985	17,153	19,028	13,670	15,431
Water Year Types[b]												
Wet (32%)	13,336	18,956	37,526	50,682	57,654	48,332	35,622	29,083	21,587	20,685	15,634	24,737
Above Normal (15%)	10,469	15,047	21,784	37,458	45,689	43,495	24,112	19,730	18,156	22,371	16,338	18,794
Below Normal (17%)	11,451	11,898	17,248	21,332	29,727	21,962	17,091	12,969	17,094	20,614	13,901	10,098
Dry (22%)	10,393	11,563	15,150	17,265	20,000	19,153	12,875	11,210	14,778	17,899	11,803	9,041
Critical (15%)	9,976	8,950	10,976	14,322	14,030	12,933	10,222	8,206	10,172	11,939	9,278	7,712

Alternative 4A (ELT) minus Existing Condition

Statistic	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-948	-2,591	-1,460	832	1,465	921	-3,972	-2,733	-4,759	-26	206	6,432
20%	-1,075	-447	-2,508	304	41	-1,313	-6,637	-3,127	-687	-173	-284	6,810
30%	-546	5	-2,525	-2,628	-1,850	-3,105	-358	-1,944	3,435	387	-988	8,316
40%	208	-559	-97	-4,868	-213	-5,202	-695	-1,960	3,917	765	-2,316	3,226
50%	264	-94	-1,022	-2,624	-3,161	-2,728	-542	-1,272	3,222	260	-2,946	-3,008
60%	489	-150	-1,137	179	-1,875	-1,326	-650	-544	1,767	-716	-3,319	-3,119
70%	653	-1,174	511	-684	-2,139	-690	-415	-155	659	-1,302	-3,695	-2,785
80%	111	-815	635	144	75	-407	-324	313	532	-1,170	-2,859	-2,491
90%	222	-609	-415	-112	-1,307	-64	149	-250	422	-2,677	-591	-175
Long Term												
Full Simulation Period[a]	-239	-743	-771	-794	-572	-1,329	-1,172	-1,319	520	-720	-1,688	1,584
Water Year Types[b]												
Wet (32%)	-247	-517	-2,148	-118	433	-1,104	-2,232	-2,981	-2,518	589	-330	6,385
Above Normal (15%)	-731	-310	126	-2,261	119	-1,036	-1,930	-1,407	1,630	578	317	5,497
Below Normal (17%)	-191	-735	553	-2,373	-2,138	-2,558	-732	-1,396	3,302	-563	-1,892	-2,424
Dry (22%)	27	-1,357	-321	-132	-1,179	-1,532	-191	118	2,327	-1,600	-5,310	-3,209
Critical (15%)	-185	-753	-903	57	-702	-368	-102	309	39	-3,717	-964	-868

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-59-4. Sacramento River at Freeport, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	15,407	24,427	51,094	63,434	68,256	61,156	50,243	41,972	26,032	23,545	18,025	19,590
20%	13,765	15,847	36,152	56,012	60,934	51,777	38,496	27,859	20,410	22,708	17,588	17,116
30%	12,858	14,563	24,821	41,045	51,013	43,112	23,516	18,662	15,247	21,374	16,921	14,104
40%	11,766	13,576	18,406	30,911	43,446	33,804	20,554	15,293	13,924	20,443	16,605	13,660
50%	11,278	12,179	16,439	24,758	33,438	27,155	16,221	13,689	13,373	19,911	16,172	13,212
60%	10,626	11,177	15,011	19,442	24,695	22,066	13,316	12,101	12,691	19,645	15,692	12,776
70%	9,804	10,841	12,950	15,694	19,946	19,191	12,034	10,982	12,374	19,278	15,229	12,051
80%	9,000	9,642	11,585	13,339	14,885	15,383	11,232	10,131	11,721	17,257	13,450	11,043
90%	7,694	8,451	9,896	12,533	13,059	11,666	9,806	8,901	10,361	14,669	10,150	8,062
Long Term												
Full Simulation Period[a]	11,696	14,834	23,734	31,874	37,057	32,865	23,236	19,303	16,633	19,748	15,358	13,847
Water Year Types[b]												
Wet (32%)	13,583	19,472	39,674	50,800	57,222	49,436	37,854	32,064	24,106	20,096	15,965	18,351
Above Normal (15%)	11,200	15,357	21,658	39,719	45,570	44,531	26,041	21,138	16,526	21,793	16,021	13,297
Below Normal (17%)	11,642	12,633	16,695	23,705	31,864	24,520	17,823	14,366	13,793	21,176	15,792	12,522
Dry (22%)	10,366	12,920	15,471	17,397	21,179	20,684	13,066	11,093	12,451	19,498	17,113	12,250
Critical (15%)	10,161	9,703	11,879	14,265	14,732	13,300	10,325	7,897	10,133	15,656	10,242	8,580

Alternative 5A (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,262	22,109	49,663	64,953	69,721	62,078	46,269	39,228	20,174	24,822	19,657	24,299
20%	12,819	15,543	32,953	54,376	60,979	50,478	31,860	25,517	18,500	23,945	18,162	21,857
30%	12,053	14,650	22,249	37,859	48,234	40,962	23,039	17,167	16,973	23,370	16,950	19,870
40%	11,650	13,261	18,259	25,247	43,832	28,938	19,878	13,708	16,149	22,695	16,342	15,589
50%	10,913	12,089	15,998	21,756	31,171	24,047	15,629	12,794	15,760	22,023	14,695	10,626
60%	10,295	11,208	14,725	18,559	22,806	20,906	12,741	12,344	14,664	20,585	13,602	9,824
70%	9,088	10,111	13,891	15,732	18,182	18,498	11,568	11,472	13,514	17,899	12,058	8,900
80%	8,678	8,770	12,840	13,728	14,842	14,799	10,889	10,565	12,202	17,121	9,240	8,200
90%	7,388	7,699	9,477	12,219	12,403	11,474	10,215	8,903	10,923	9,906	8,322	7,789
Long Term												
Full Simulation Period[a]	11,051	14,298	23,102	30,883	36,459	31,604	22,041	18,294	16,633	19,955	14,281	14,417
Water Year Types[b]												
Wet (32%)	12,730	19,141	37,501	50,350	57,450	48,336	35,610	29,303	21,305	21,476	15,894	22,740
Above Normal (15%)	10,326	15,694	22,083	37,154	45,589	43,715	23,987	20,322	17,666	23,376	17,452	16,820
Below Normal (17%)	11,130	12,021	17,309	21,760	29,926	21,863	16,805	13,410	15,904	21,667	15,702	9,811
Dry (22%)	10,065	11,638	15,319	16,771	20,146	19,338	12,997	11,605	14,176	19,847	12,475	8,874
Critical (15%)	9,523	9,058	11,355	14,247	13,941	13,004	10,372	8,145	10,014	11,404	8,665	7,666

Alternative 5A (ELT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,145	-2,318	-1,431	1,519	1,465	922	-3,974	-2,744	-5,857	1,277	1,632	4,709
20%	-946	-304	-3,199	-1,636	46	-1,300	-6,636	-2,342	-1,911	1,238	575	4,741
30%	-806	88	-2,572	-3,186	-2,778	-2,151	-477	-1,495	1,727	1,995	29	5,766
40%	-116	-315	-147	-5,664	387	-4,866	-676	-1,585	2,224	2,252	-263	1,929
50%	-365	-90	-441	-3,001	-2,267	-3,108	-592	-894	2,387	2,112	-1,477	-2,586
60%	-331	32	-286	-883	-1,889	-1,161	-575	243	1,973	940	-2,090	-2,952
70%	-715	-731	941	39	-1,764	-694	-466	490	1,140	-1,379	-3,171	-3,151
80%	-322	-872	1,255	389	-44	-584	-343	434	481	-136	-4,210	-2,843
90%	-306	-751	-419	-314	-657	-193	410	2	562	-4,763	-1,828	-273
Long Term												
Full Simulation Period[a]	-645	-536	-632	-990	-598	-1,261	-1,194	-1,009	1	207	-1,077	570
Water Year Types[b]												
Wet (32%)	-854	-331	-2,173	-450	228	-1,101	-2,245	-2,761	-2,801	1,380	-71	4,389
Above Normal (15%)	-874	337	425	-2,565	19	-817	-2,054	-816	1,140	1,583	1,430	3,523
Below Normal (17%)	-513	-612	614	-1,945	-1,938	-2,658	-1,019	-955	2,111	491	-90	-2,711
Dry (22%)	-301	-1,283	-151	-626	-1,033	-1,346	-69	512	1,725	349	-4,637	-3,375
Critical (15%)	-637	-645	-524	-18	-791	-296	47	248	-119	-4,252	-1,577	-915

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-59-5. Sacramento River at Freeport, Monthly Flow

No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,257	21,654	48,466	59,218	66,059	56,252	44,595	39,227	20,209	24,509	17,570	29,155
20%	13,404	18,487	33,573	51,609	57,520	48,831	31,862	25,644	16,132	23,915	17,230	26,974
30%	12,471	16,789	22,225	36,900	44,825	37,182	23,036	16,681	13,825	23,132	16,896	22,178
40%	11,742	15,951	17,924	24,249	41,302	29,292	19,865	13,339	13,331	21,173	16,498	20,680
50%	10,814	13,970	15,408	21,556	30,963	23,632	15,545	12,318	12,892	20,120	15,765	13,163
60%	9,345	12,347	14,210	18,222	22,829	20,710	12,853	11,251	12,404	18,862	15,186	11,785
70%	9,053	10,667	13,453	15,804	17,696	18,503	11,361	10,573	11,990	17,920	13,894	10,614
80%	8,404	8,635	12,611	13,508	14,857	14,291	10,623	10,112	11,615	16,554	13,081	8,874
90%	7,322	7,702	9,449	12,293	12,499	11,190	9,755	8,826	10,299	13,530	8,207	7,472
Long Term												
Full Simulation Period[a]	10,996	15,350	22,496	29,781	34,801	30,343	21,555	17,903	15,028	19,677	14,736	17,078
Water Year Types[b]												
Wet (32%)	12,738	20,414	36,411	47,934	54,125	46,109	34,554	29,081	19,866	20,547	16,035	26,855
Above Normal (15%)	10,409	16,822	21,591	35,666	42,818	40,794	23,738	19,665	15,299	22,408	16,718	21,155
Below Normal (17%)	10,636	13,491	17,010	21,292	29,069	21,683	16,736	13,015	13,243	21,191	15,403	12,798
Dry (22%)	10,199	12,445	15,071	16,681	19,864	19,136	12,758	10,899	12,577	18,961	14,749	9,879
Critical (15%)	9,422	9,433	10,789	14,119	14,010	12,647	10,027	8,127	10,033	14,372	9,145	7,612

Alternative 2D (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,077	21,753	49,126	64,930	69,721	62,029	46,267	39,230	24,676	23,707	17,724	23,840
20%	12,723	15,425	34,257	55,959	60,866	50,502	31,857	26,267	22,855	22,572	16,274	22,903
30%	12,197	14,362	22,246	38,249	47,775	39,598	23,038	19,270	20,602	21,719	15,076	21,543
40%	11,916	13,103	18,420	26,394	43,669	28,938	19,881	15,597	19,254	20,087	13,820	15,740
50%	11,383	12,061	15,366	21,888	30,225	24,066	15,641	13,492	17,437	18,940	13,036	11,392
60%	10,984	10,896	13,973	18,151	22,969	20,736	12,770	12,757	14,388	17,661	12,136	9,563
70%	10,338	9,969	13,576	14,619	18,114	18,272	11,999	11,588	12,535	16,333	11,554	9,224
80%	9,508	8,602	12,969	13,499	14,950	15,244	11,221	10,815	11,820	14,052	10,212	8,465
90%	7,537	7,697	9,743	11,654	12,263	11,598	10,346	8,895	10,294	11,559	8,580	7,804
Long Term												
Full Simulation Period[a]	11,385	14,061	23,027	30,702	36,532	31,479	22,109	19,040	18,076	18,328	13,287	14,840
Water Year Types[b]												
Wet (32%)	13,144	18,856	37,409	50,192	57,396	48,106	35,614	29,692	22,848	19,642	14,716	23,483
Above Normal (15%)	10,730	14,830	21,785	37,453	46,158	43,569	23,973	22,113	20,406	21,838	15,503	17,410
Below Normal (17%)	10,929	11,881	17,239	21,221	30,098	21,613	16,820	14,719	18,744	20,563	14,836	10,092
Dry (22%)	10,475	11,688	15,437	16,561	19,882	19,399	13,241	12,195	14,519	16,742	11,258	9,106
Critical (15%)	10,130	9,010	11,250	13,994	14,184	12,992	10,456	8,199	9,965	11,740	9,209	7,680

Alternative 2D (ELT) minus No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-180	99	660	5,712	3,662	5,777	1,672	3	4,467	-802	154	-5,315
20%	-682	-3,062	683	4,350	3,346	1,672	-4	623	6,723	-1,344	-957	-4,071
30%	-274	-2,428	22	1,349	2,950	2,416	1	2,589	6,777	-1,412	-1,820	-635
40%	175	-2,848	496	2,144	2,367	-354	16	2,258	5,923	-1,086	-2,678	-4,940
50%	570	-1,909	-42	333	-738	434	95	1,174	4,545	-1,180	-2,729	-1,771
60%	1,640	-1,451	-237	-71	140	26	-83	1,506	1,983	-1,201	-3,050	-2,222
70%	1,284	-698	124	-1,185	418	-231	638	1,015	545	-1,587	-2,340	-1,391
80%	1,104	-33	358	-9	93	952	598	703	204	-2,502	-2,868	-409
90%	215	-5	294	-638	-236	408	591	69	-5	-1,970	372	332
Long Term												
Full Simulation Period[a]	390	-1,289	531	920	1,731	1,136	554	1,138	3,048	-1,350	-1,449	-2,238
Water Year Types[b]												
Wet (32%)	405	-1,558	997	2,257	3,271	1,998	1,060	610	2,983	-905	-1,319	-3,372
Above Normal (15%)	322	-1,992	194	1,787	3,339	2,775	235	2,448	5,107	-570	-1,214	-3,744
Below Normal (17%)	293	-1,611	228	-72	1,029	-70	84	1,703	5,500	-627	-566	-2,706
Dry (22%)	276	-758	366	-120	18	263	483	1,296	1,942	-2,219	-3,491	-773
Critical (15%)	707	-423	460	-125	174	346	429	72	-69	-2,632	64	69

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-59-6. Sacramento River at Freeport, Monthly Flow

No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,257	21,654	48,466	59,218	66,059	56,252	44,595	39,227	20,209	24,509	17,570	29,155
20%	13,404	18,487	33,573	51,609	57,520	48,831	31,862	25,644	16,132	23,915	17,230	26,974
30%	12,471	16,789	22,225	36,900	44,825	37,182	23,036	16,681	13,825	23,132	16,896	22,178
40%	11,742	15,951	17,924	24,249	41,302	29,292	19,865	13,339	13,331	21,173	16,498	20,680
50%	10,814	13,970	15,408	21,556	30,963	23,632	15,545	12,318	12,892	20,120	15,765	13,163
60%	9,345	12,347	14,210	18,222	22,829	20,710	12,853	11,251	12,404	18,862	15,186	11,785
70%	9,053	10,667	13,453	15,804	17,696	18,503	11,361	10,573	11,990	17,920	13,894	10,614
80%	8,404	8,635	12,611	13,508	14,857	14,291	10,623	10,112	11,615	16,554	13,081	8,874
90%	7,322	7,702	9,449	12,293	12,499	11,190	9,755	8,826	10,299	13,530	8,207	7,472
Long Term												
Full Simulation Period[a]	10,996	15,350	22,496	29,781	34,801	30,343	21,555	17,903	15,028	19,677	14,736	17,078
Water Year Types[b]												
Wet (32%)	12,738	20,414	36,411	47,934	54,125	46,109	34,554	29,081	19,866	20,547	16,035	26,855
Above Normal (15%)	10,409	16,822	21,591	35,666	42,818	40,794	23,738	19,665	15,299	22,408	16,718	21,155
Below Normal (17%)	10,636	13,491	17,010	21,292	29,069	21,683	16,736	13,015	13,243	21,191	15,403	12,798
Dry (22%)	10,199	12,445	15,071	16,681	19,864	19,136	12,758	10,899	12,577	18,961	14,749	9,879
Critical (15%)	9,422	9,433	10,789	14,119	14,010	12,647	10,027	8,127	10,033	14,372	9,145	7,612

Alternative 4A (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,459	21,836	49,634	64,267	69,721	62,076	46,271	39,238	21,273	23,519	18,231	26,022
20%	12,690	15,400	33,644	56,315	60,974	50,465	31,859	24,732	19,723	22,535	17,303	23,926
30%	12,313	14,567	22,296	38,417	49,163	40,007	23,158	16,717	18,681	21,761	15,933	22,420
40%	11,974	13,017	18,309	26,043	43,232	28,602	19,858	13,334	17,841	21,208	14,289	16,886
50%	11,542	12,085	15,417	22,134	30,277	24,427	15,679	12,417	16,596	20,171	13,227	10,204
60%	11,115	11,027	13,874	19,621	22,820	20,740	12,666	11,557	14,458	18,929	12,373	9,657
70%	10,457	9,668	13,461	15,010	17,807	18,502	11,619	10,827	13,034	17,977	11,534	9,266
80%	9,111	8,827	12,220	13,483	14,960	14,976	10,908	10,444	12,252	16,087	10,591	8,552
90%	7,916	7,841	9,481	12,421	11,752	11,602	9,954	8,651	10,783	11,992	9,559	7,887
Long Term												
Full Simulation Period[a]	11,457	14,092	22,963	31,079	36,486	31,536	22,064	17,985	17,153	19,028	13,670	15,431
Water Year Types[b]												
Wet (32%)	13,336	18,956	37,526	50,682	57,654	48,332	35,622	29,083	21,587	20,685	15,634	24,737
Above Normal (15%)	10,469	15,047	21,784	37,458	45,689	43,495	24,112	19,730	18,156	22,371	16,338	18,794
Below Normal (17%)	11,451	11,898	17,248	21,332	29,727	21,962	17,091	12,969	17,094	20,614	13,901	10,098
Dry (22%)	10,393	11,563	15,150	17,265	20,000	19,153	12,875	11,210	14,778	17,899	11,803	9,041
Critical (15%)	9,976	8,950	10,976	14,322	14,030	12,933	10,222	8,206	10,172	11,939	9,278	7,712

Alternative 4A (ELT) minus No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	202	183	1,168	5,049	3,662	5,824	1,676	11	1,064	**-990**	661	**-3,133**
20%	**-715**	**-3,087**	70	4,706	3,454	1,634	**-2**	**-912**	3,591	**-1,380**	73	**-3,048**
30%	**-158**	**-2,222**	71	1,517	4,338	2,824	122	37	4,856	**-1,370**	**-963**	242
40%	232	**-2,934**	385	1,793	1,931	**-690**	**-7**	**-6**	4,510	35	**-2,209**	**-3,794**
50%	728	**-1,886**	8	578	**-686**	795	133	98	3,703	50	**-2,539**	**-2,959**
60%	1,771	**-1,320**	**-335**	1,400	**-9**	31	**-187**	306	2,054	67	**-2,814**	**-2,129**
70%	1,404	**-999**	8	**-794**	111	**-2**	258	255	1,044	57	**-2,360**	**-1,349**
80%	707	192	**-391**	**-25**	103	684	285	333	637	**-467**	**-2,489**	**-322**
90%	593	139	32	128	**-746**	412	199	**-175**	484	**-1,538**	1,352	415
Long Term												
Full Simulation Period[a]	461	**-1,259**	467	1,298	1,684	1,193	508	82	2,125	**-649**	**-1,066**	**-1,647**
Water Year Types[b]												
Wet (32%)	598	**-1,458**	1,115	2,748	3,530	2,223	1,068	1	1,721	138	**-401**	**-2,118**
Above Normal (15%)	60	**-1,776**	193	1,792	2,870	2,701	374	66	2,857	**-37**	**-379**	**-2,361**
Below Normal (17%)	815	**-1,593**	238	40	658	279	355	**-46**	3,851	**-577**	**-1,502**	**-2,700**
Dry (22%)	195	**-882**	79	584	136	17	117	311	2,201	**-1,062**	**-2,946**	**-838**
Critical (15%)	553	**-483**	187	203	21	286	195	79	138	**-2,433**	132	101

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-59-7. Sacramento River at Freeport, Monthly Flow

No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,257	21,654	48,466	59,218	66,059	56,252	44,595	39,227	20,209	24,509	17,570	29,155
20%	13,404	18,487	33,573	51,609	57,520	48,831	31,862	25,644	16,132	23,915	17,230	26,974
30%	12,471	16,789	22,225	36,900	44,825	37,182	23,036	16,681	13,825	23,132	16,896	22,178
40%	11,742	15,951	17,924	24,249	41,302	29,292	19,865	13,339	13,331	21,173	16,498	20,680
50%	10,814	13,970	15,408	21,556	30,963	23,632	15,545	12,318	12,892	20,120	15,765	13,163
60%	9,345	12,347	14,210	18,222	22,829	20,710	12,853	11,251	12,404	18,862	15,186	11,785
70%	9,053	10,667	13,453	15,804	17,696	18,503	11,361	10,573	11,990	17,920	13,894	10,614
80%	8,404	8,635	12,611	13,508	14,857	14,291	10,623	10,112	11,615	16,554	13,081	8,874
90%	7,322	7,702	9,449	12,293	12,499	11,190	9,755	8,826	10,299	13,530	8,207	7,472
Long Term												
Full Simulation Period[a]	10,996	15,350	22,496	29,781	34,801	30,343	21,555	17,903	15,028	19,677	14,736	17,078
Water Year Types[b]												
Wet (32%)	12,738	20,414	36,411	47,934	54,125	46,109	34,554	29,081	19,866	20,547	16,035	26,855
Above Normal (15%)	10,409	16,822	21,591	35,666	42,818	40,794	23,738	19,665	15,299	22,408	16,718	21,155
Below Normal (17%)	10,636	13,491	17,010	21,292	29,069	21,683	16,736	13,015	13,243	21,191	15,403	12,798
Dry (22%)	10,199	12,445	15,071	16,681	19,864	19,136	12,758	10,899	12,577	18,961	14,749	9,879
Critical (15%)	9,422	9,433	10,789	14,119	14,010	12,647	10,027	8,127	10,033	14,372	9,145	7,612

Alternative 5A (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,262	22,109	49,663	64,953	69,721	62,078	46,269	39,228	20,174	24,822	19,657	24,299
20%	12,819	15,543	32,953	54,376	60,979	50,478	31,860	25,517	18,500	23,945	18,162	21,857
30%	12,053	14,650	22,249	37,859	48,234	40,962	23,039	17,167	16,973	23,370	16,950	19,870
40%	11,650	13,261	18,259	25,247	43,832	28,938	19,878	13,708	16,149	22,695	16,342	15,589
50%	10,913	12,089	15,998	21,756	31,171	24,047	15,629	12,794	15,760	22,023	14,695	10,626
60%	10,295	11,208	14,725	18,559	22,806	20,906	12,741	12,344	14,664	20,585	13,602	9,824
70%	9,088	10,111	13,891	15,732	18,182	18,498	11,568	11,472	13,514	17,899	12,058	8,900
80%	8,678	8,770	12,840	13,728	14,842	14,799	10,889	10,565	12,202	17,121	9,240	8,200
90%	7,388	7,699	9,477	12,219	12,403	11,474	10,215	8,903	10,923	9,906	8,322	7,789
Long Term												
Full Simulation Period[a]	11,051	14,298	23,102	30,883	36,459	31,604	22,041	18,294	16,633	19,955	14,281	14,417
Water Year Types[b]												
Wet (32%)	12,730	19,141	37,501	50,350	57,450	48,336	35,610	29,303	21,305	21,476	15,894	22,740
Above Normal (15%)	10,326	15,694	22,083	37,154	45,589	43,715	23,987	20,322	17,666	23,376	17,452	16,820
Below Normal (17%)	11,130	12,021	17,309	21,760	29,926	21,863	16,805	13,410	15,904	21,667	15,702	9,811
Dry (22%)	10,065	11,638	15,319	16,771	20,146	19,338	12,997	11,605	14,176	19,847	12,475	8,874
Critical (15%)	9,523	9,058	11,355	14,247	13,941	13,004	10,372	8,145	10,014	11,404	8,665	7,666

Alternative 5A (ELT) minus No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5	455	1,197	5,735	3,662	5,826	1,674	1	-35	314	2,087	-4,856
20%	-585	-2,944	-621	2,767	3,459	1,647	-2	-127	2,368	30	932	-5,117
30%	-418	-2,139	24	959	3,409	3,779	2	486	3,149	238	54	-2,308
40%	-91	-2,690	335	997	2,531	-354	13	369	2,817	1,522	-156	-5,091
50%	99	-1,882	589	201	208	415	84	476	2,868	1,903	-1,070	-2,537
60%	950	-1,139	515	337	-23	196	-112	1,092	2,260	1,723	-1,584	-1,961
70%	35	-556	438	-71	486	-5	207	900	1,524	-21	-1,835	-1,714
80%	274	134	229	221	-15	508	266	453	586	567	-3,841	-674
90%	66	-3	28	-74	-96	284	460	77	624	-3,623	115	318
Long Term												
Full Simulation Period[a]	55	-1,052	606	1,102	1,658	1,261	486	392	1,605	278	-456	-2,662
Water Year Types[b]												
Wet (32%)	-8	-1,272	1,090	2,416	3,325	2,227	1,056	222	1,439	928	-142	-4,115
Above Normal (15%)	-83	-1,128	492	1,488	2,770	2,921	250	657	2,367	968	734	-4,335
Below Normal (17%)	494	-1,470	299	468	858	180	68	395	2,661	477	300	-2,988
Dry (22%)	-134	-808	248	91	282	203	239	706	1,599	886	-2,273	-1,005
Critical (15%)	101	-375	566	128	-69	358	344	18	-19	-2,968	-480	54

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

C.60. Sacramento River Flow downstream of North delta Diversion

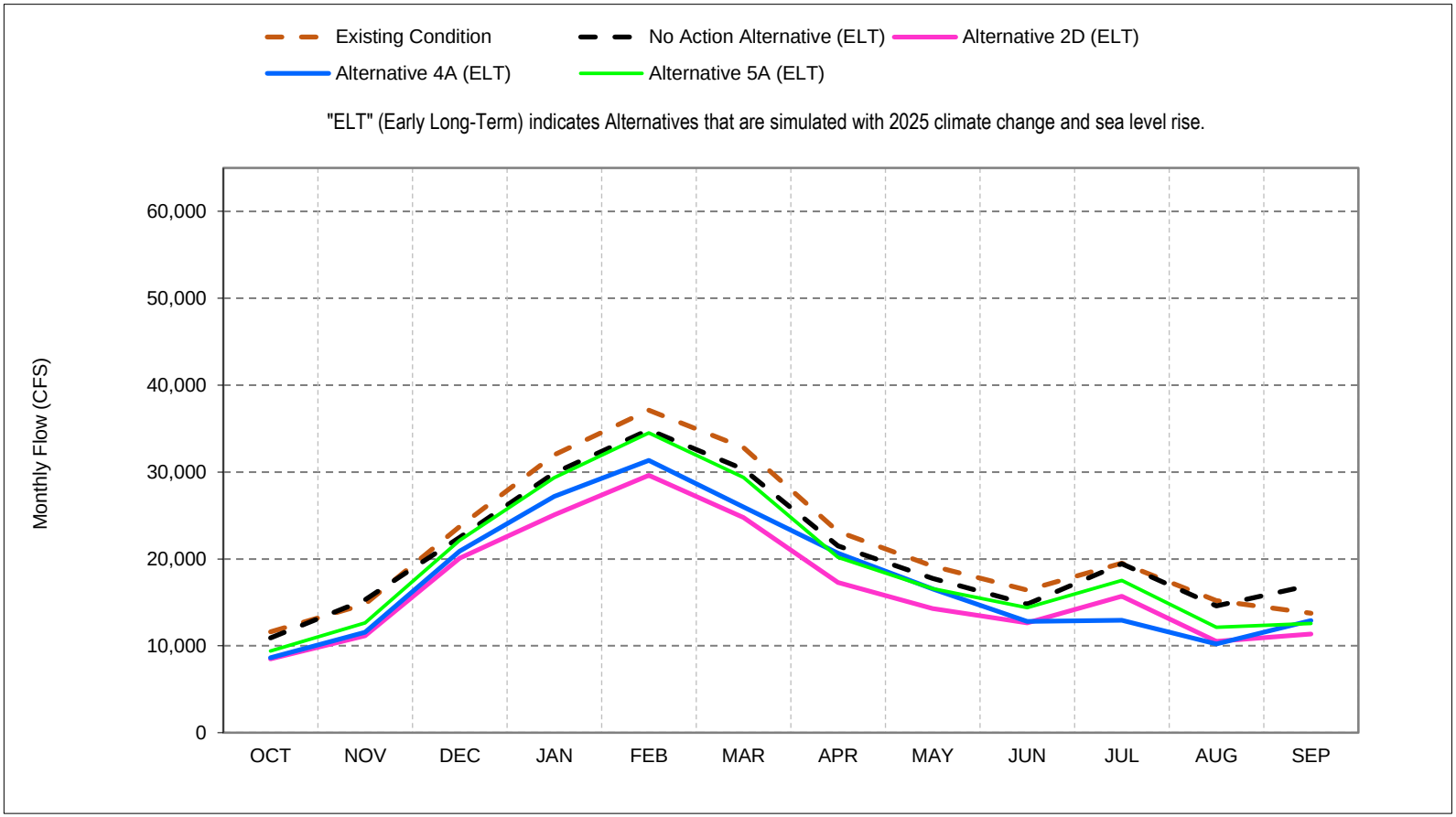
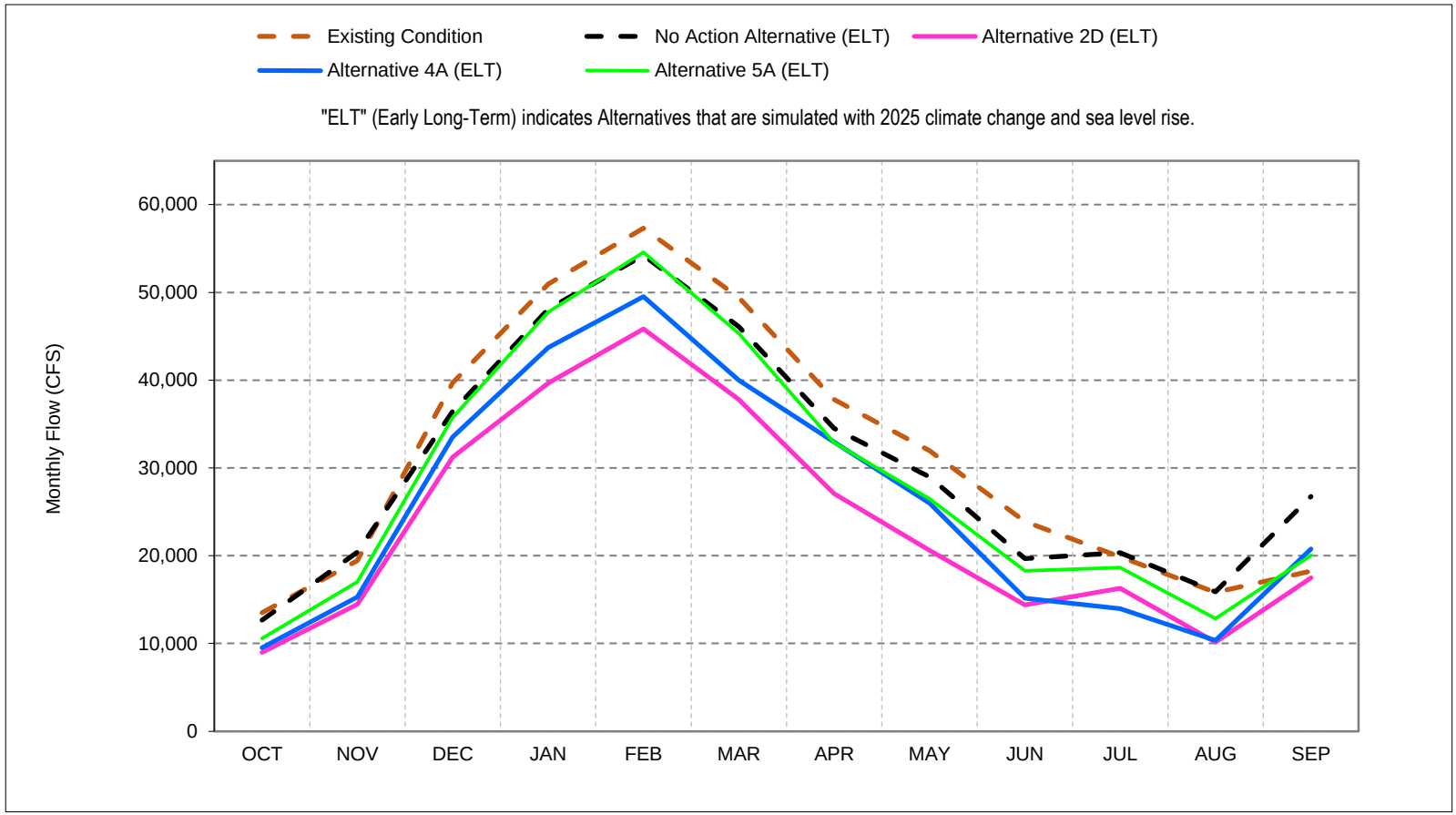
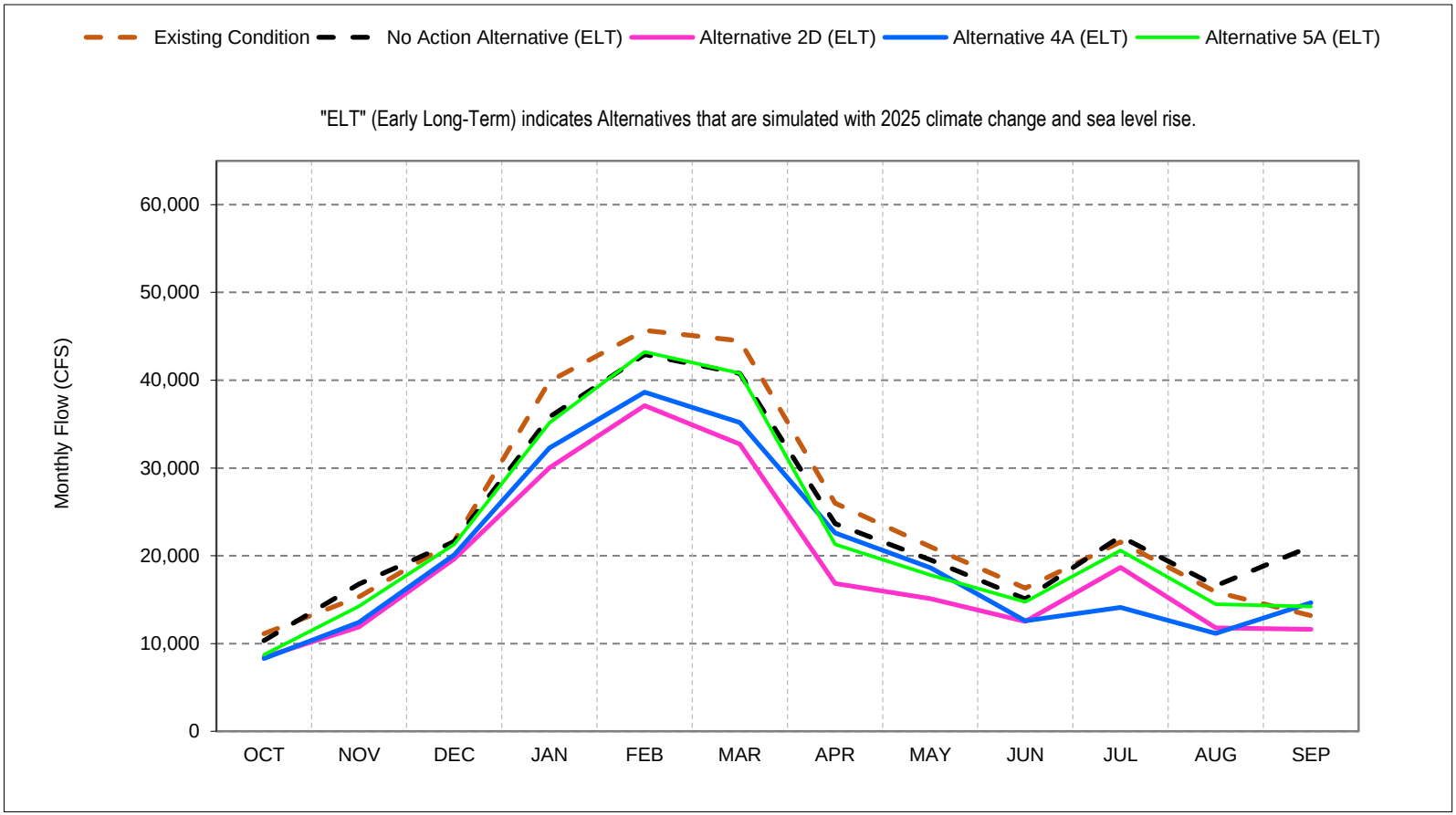


Figure C-60-1. Sacramento River d/s of North Delta Diversion, Long-Term Average Flow



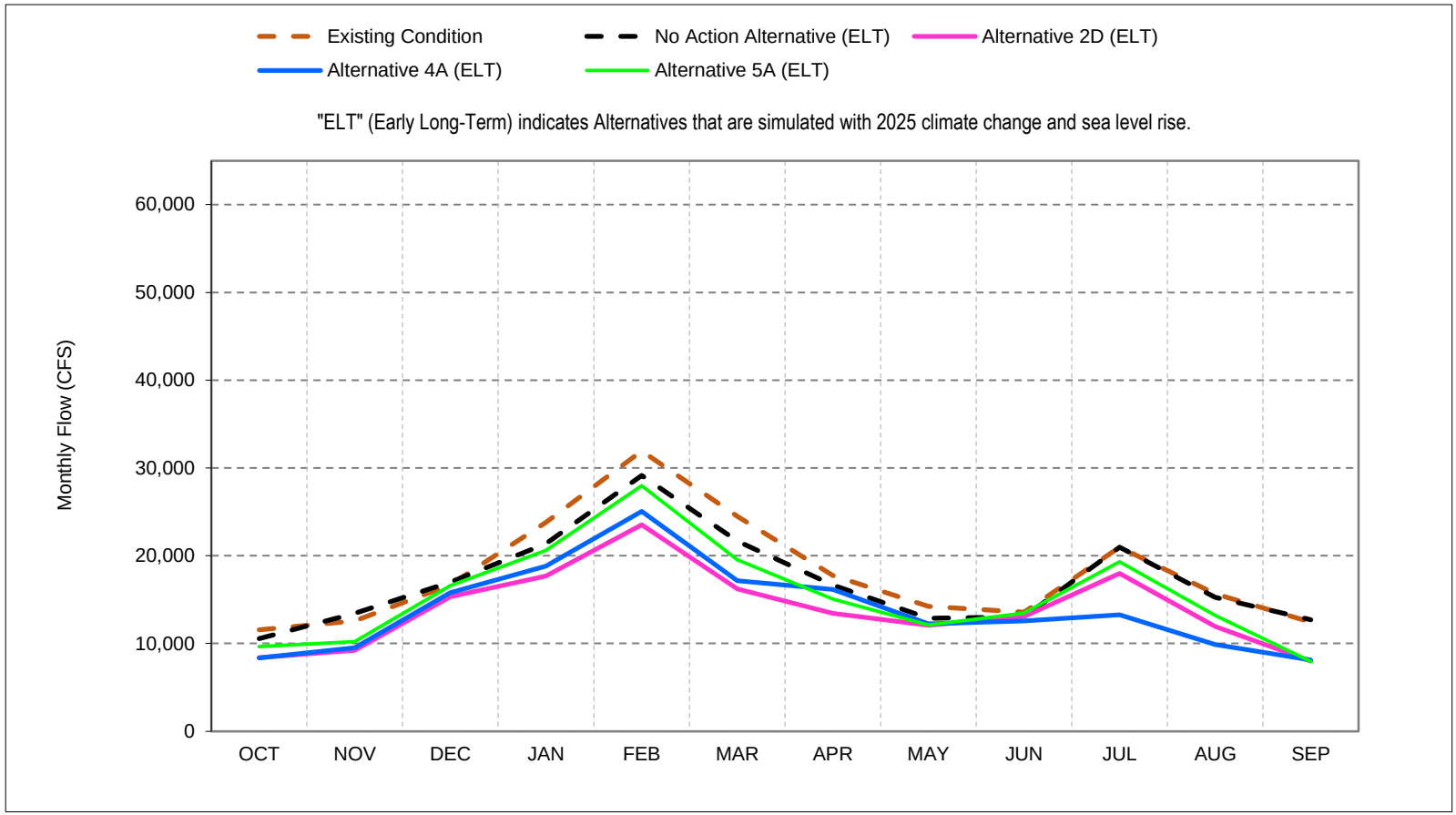
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-60-2. Sacramento River d/s of North Delta Diversion, Wet Year* Average Flow



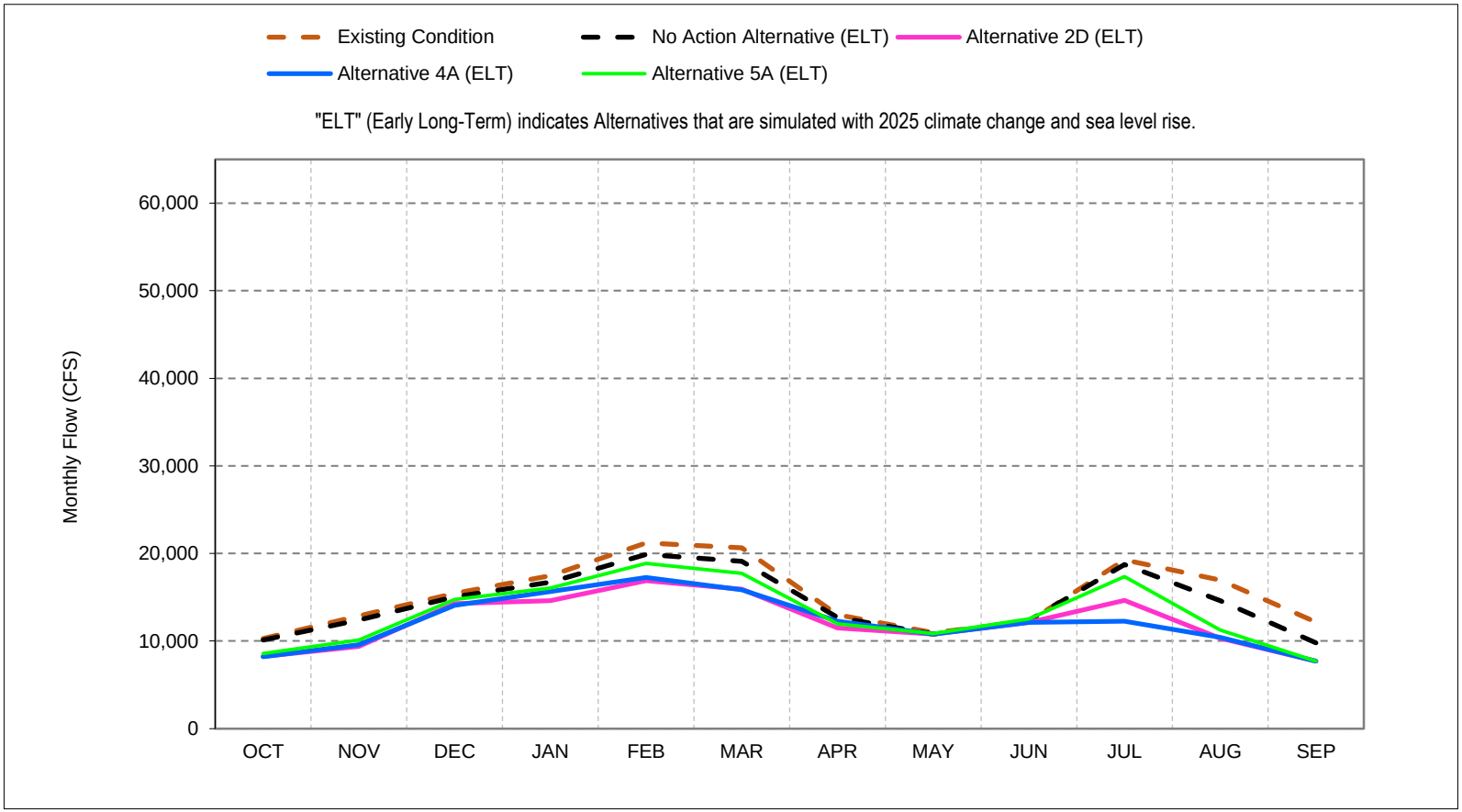
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-60-3. Sacramento River d/s of North Delta Diversion, Above Normal Year* Average Flow



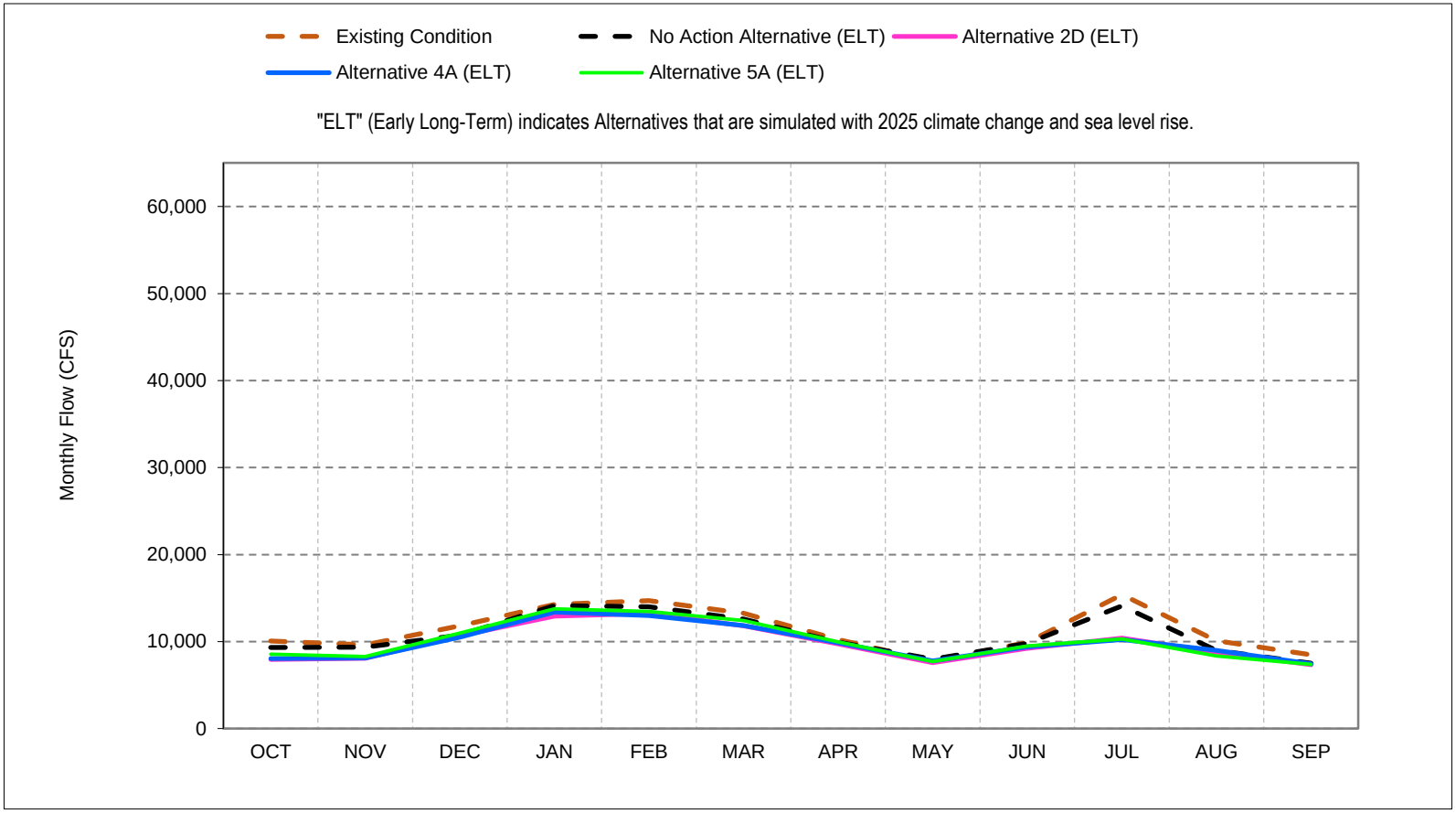
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-60-4. Sacramento River d/s of North Delta Diversion, Below Normal Year* Average Flow



*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-60-5. Sacramento River d/s of North Delta Diversion, Dry Year* Average Flow



*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-60-6. Sacramento River d/s of North Delta Diversion, Critical Year* Average Flow

Table C-60-1. Sacramento River d/s of North Delta Diversion, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	15,329	24,384	51,165	63,679	68,541	61,159	50,180	41,880	25,859	23,322	17,874	19,486
20%	13,687	15,781	36,208	56,070	61,018	51,797	38,440	27,790	20,184	22,492	17,435	17,016
30%	12,785	14,510	24,871	41,125	51,014	43,086	23,478	18,536	15,022	21,154	16,777	14,001
40%	11,683	13,507	18,359	30,974	43,531	33,753	20,474	15,172	13,712	20,188	16,461	13,567
50%	11,184	12,156	16,368	24,823	33,515	27,145	16,135	13,545	13,141	19,667	16,023	13,126
60%	10,548	11,106	14,969	19,554	24,680	22,020	13,220	11,917	12,500	19,434	15,547	12,695
70%	9,710	10,791	12,925	15,748	19,908	19,142	11,953	10,835	12,152	19,046	15,080	11,948
80%	8,925	9,564	11,502	13,415	14,871	15,333	11,188	10,027	11,496	17,041	13,312	10,972
90%	7,603	8,404	9,849	12,542	13,019	11,580	9,749	8,774	10,147	14,446	9,996	7,967
Long Term												
Full Simulation Period[a]	11,613	14,788	23,727	31,971	37,116	32,834	23,169	19,175	16,412	19,520	15,210	13,751
Water Year Types[b]												
Wet (32%)	13,505	19,447	39,708	50,961	57,314	49,416	37,809	31,948	23,900	19,876	15,816	18,254
Above Normal (15%)	11,118	15,309	21,663	39,863	45,676	44,495	25,979	21,021	16,309	21,574	15,877	13,198
Below Normal (17%)	11,557	12,574	16,678	23,781	31,934	24,489	17,752	14,227	13,576	20,953	15,643	12,427
Dry (22%)	10,279	12,868	15,442	17,444	21,202	20,656	12,990	10,959	12,222	19,272	16,965	12,155
Critical (15%)	10,073	9,633	11,816	14,281	14,708	13,245	10,229	7,749	9,884	15,397	10,095	8,485

No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,159	21,683	48,499	59,309	66,255	56,263	44,533	39,116	19,987	24,289	17,423	29,058
20%	13,316	18,431	33,524	51,680	57,508	48,855	31,838	25,578	15,934	23,691	17,081	26,869
30%	12,383	16,728	22,212	37,038	44,990	37,150	22,999	16,578	13,591	22,907	16,747	22,078
40%	11,650	15,897	18,015	24,374	41,386	29,244	19,791	13,209	13,114	20,942	16,365	20,585
50%	10,734	13,897	15,382	21,650	31,029	23,645	15,461	12,196	12,673	19,877	15,612	13,066
60%	9,280	12,277	14,129	18,268	22,791	20,698	12,769	11,132	12,191	18,646	15,028	11,716
70%	8,968	10,617	13,439	15,832	17,679	18,493	11,265	10,433	11,771	17,683	13,737	10,532
80%	8,307	8,567	12,583	13,491	14,899	14,249	10,540	9,957	11,334	16,334	12,949	8,781
90%	7,234	7,686	9,379	12,291	12,442	11,116	9,676	8,703	10,095	13,305	8,056	7,377
Long Term												
Full Simulation Period[a]	10,913	15,305	22,491	29,880	34,861	30,313	21,490	17,776	14,810	19,452	14,589	16,984
Water Year Types[b]												
Wet (32%)	12,660	20,391	36,447	48,096	54,218	46,091	34,509	28,967	19,662	20,329	15,887	26,759
Above Normal (15%)	10,327	16,775	21,598	35,811	42,926	40,760	23,676	19,550	15,085	22,190	16,573	21,058
Below Normal (17%)	10,552	13,434	16,995	21,370	29,139	21,653	16,666	12,879	13,029	20,969	15,253	12,705
Dry (22%)	10,113	12,395	15,045	16,728	19,888	19,109	12,683	10,768	12,351	18,736	14,602	9,786
Critical (15%)	9,336	9,364	10,728	14,136	13,989	12,594	9,932	7,982	9,787	14,115	8,998	7,518

No Action Alternative (ELT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,169	-2,701	-2,666	-4,370	-2,285	-4,896	-5,647	-2,764	-5,872	968	-452	9,572
20%	-372	2,649	-2,683	-4,390	-3,510	-2,942	-6,602	-2,211	-4,250	1,199	-354	9,854
30%	-402	2,218	-2,660	-4,086	-6,024	-5,936	-480	-1,958	-1,431	1,754	-29	8,077
40%	-33	2,390	-344	-6,600	-2,145	-4,509	-683	-1,962	-599	755	-96	7,019
50%	-450	1,742	-986	-3,172	-2,486	-3,499	-675	-1,349	-468	210	-410	-59
60%	-1,268	1,171	-840	-1,286	-1,889	-1,322	-450	-784	-309	-788	-519	-979
70%	-742	-174	514	84	-2,228	-649	-687	-402	-381	-1,363	-1,343	-1,415
80%	-618	-997	1,081	76	28	-1,085	-648	-71	-161	-707	-363	-2,191
90%	-369	-718	-470	-251	-578	-464	-73	-71	-52	-1,141	-1,940	-590
Long Term												
Full Simulation Period[a]	-699	518	-1,236	-2,091	-2,255	-2,520	-1,679	-1,399	-1,602	-69	-621	3,233
Water Year Types[b]												
Wet (32%)	-844	944	-3,261	-2,865	-3,096	-3,325	-3,299	-2,981	-4,238	453	71	8,505
Above Normal (15%)	-791	1,467	-65	-4,052	-2,750	-3,735	-2,302	-1,471	-1,224	617	697	7,860
Below Normal (17%)	-1,006	860	317	-2,411	-2,795	-2,835	-1,086	-1,348	-547	16	-390	278
Dry (22%)	-166	-473	-398	-716	-1,314	-1,548	-307	-191	128	-536	-2,364	-2,369
Critical (15%)	-737	-269	-1,088	-145	-719	-652	-296	233	-97	-1,282	-1,096	-967

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-60-2. Sacramento River d/s of North Delta Diversion, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	15,329	24,384	51,165	63,679	68,541	61,159	50,180	41,880	25,859	23,322	17,874	19,486
20%	13,687	15,781	36,208	56,070	61,018	51,797	38,440	27,790	20,184	22,492	17,435	17,016
30%	12,785	14,510	24,871	41,125	51,014	43,086	23,478	18,536	15,022	21,154	16,777	14,001
40%	11,683	13,507	18,359	30,974	43,531	33,753	20,474	15,172	13,712	20,188	16,461	13,567
50%	11,184	12,156	16,368	24,823	33,515	27,145	16,135	13,545	13,141	19,667	16,023	13,126
60%	10,548	11,106	14,969	19,554	24,680	22,020	13,220	11,917	12,500	19,434	15,547	12,695
70%	9,710	10,791	12,925	15,748	19,908	19,142	11,953	10,835	12,152	19,046	15,080	11,948
80%	8,925	9,564	11,502	13,415	14,871	15,333	11,188	10,027	11,496	17,041	13,312	10,972
90%	7,603	8,404	9,849	12,542	13,019	11,580	9,749	8,774	10,147	14,446	9,996	7,967
Long Term												
Full Simulation Period[a]	11,613	14,788	23,727	31,971	37,116	32,834	23,169	19,175	16,412	19,520	15,210	13,751
Water Year Types[b]												
Wet (32%)	13,505	19,447	39,708	50,961	57,314	49,416	37,809	31,948	23,900	19,876	15,816	18,254
Above Normal (15%)	11,118	15,309	21,663	39,863	45,676	44,495	25,979	21,021	16,309	21,574	15,877	13,198
Below Normal (17%)	11,557	12,574	16,678	23,781	31,934	24,489	17,752	14,227	13,576	20,953	15,643	12,427
Dry (22%)	10,279	12,868	15,442	17,444	21,202	20,656	12,990	10,959	12,222	19,272	16,965	12,155
Critical (15%)	10,073	9,633	11,816	14,281	14,708	13,245	10,229	7,749	9,884	15,397	10,095	8,485

Alternative 2D (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,016	14,546	39,978	50,817	59,335	50,398	36,062	26,760	15,398	22,425	14,748	18,729
20%	8,941	11,847	29,933	42,343	50,067	39,746	21,848	15,231	13,484	20,677	12,264	17,947
30%	8,869	10,774	19,646	29,631	37,470	27,401	15,944	12,496	13,013	19,884	11,288	13,108
40%	8,833	9,628	16,916	20,512	32,615	20,047	12,991	11,981	12,621	18,002	10,147	11,095
50%	8,762	8,484	14,424	18,615	22,419	17,037	12,134	11,392	11,985	15,948	9,490	7,872
60%	8,529	8,401	13,049	16,135	18,232	15,477	11,229	10,815	11,654	13,056	9,274	7,776
70%	8,141	8,275	12,700	13,713	14,543	14,059	10,740	10,462	10,949	11,360	8,730	7,713
80%	7,440	7,994	12,072	12,668	13,081	12,759	10,370	9,653	10,253	9,959	8,266	7,609
90%	7,085	6,976	9,385	11,260	11,295	10,839	9,394	8,256	9,098	9,206	7,969	7,427
Long Term												
Full Simulation Period[a]	8,489	11,141	20,079	25,090	29,614	24,755	17,283	14,292	12,637	15,700	10,526	11,375
Water Year Types[b]												
Wet (32%)	8,996	14,455	31,217	39,667	45,822	37,791	27,065	20,619	14,401	16,295	10,154	17,492
Above Normal (15%)	8,453	11,885	19,637	30,021	37,099	32,712	16,846	15,117	12,510	18,685	11,786	11,618
Below Normal (17%)	8,387	9,232	15,314	17,692	23,539	16,205	13,441	12,077	13,061	17,968	11,922	7,997
Dry (22%)	8,227	9,378	14,266	14,605	16,871	15,897	11,472	10,798	12,128	14,624	10,302	7,705
Critical (15%)	7,940	8,090	10,667	12,933	13,213	11,811	9,721	7,581	9,210	10,394	8,776	7,327

Alternative 2D (ELT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-6,313	-9,838	-11,187	-12,862	-9,205	-10,761	-14,118	-15,119	-10,461	-897	-3,126	-757
20%	-4,746	-3,935	-6,275	-13,727	-10,951	-12,052	-16,593	-12,558	-6,700	-1,815	-5,171	931
30%	-3,915	-3,736	-5,225	-11,494	-13,544	-15,685	-7,534	-6,040	-2,009	-1,269	-5,488	-893
40%	-2,850	-3,878	-1,443	-10,462	-10,916	-13,706	-7,483	-3,191	-1,092	-2,186	-6,314	-2,472
50%	-2,421	-3,672	-1,944	-6,207	-11,097	-10,108	-4,002	-2,152	-1,156	-3,719	-6,533	-5,254
60%	-2,018	-2,705	-1,920	-3,419	-6,448	-6,543	-1,991	-1,102	-846	-6,378	-6,273	-4,919
70%	-1,569	-2,515	-225	-2,034	-5,365	-5,083	-1,213	-373	-1,203	-7,687	-6,351	-4,235
80%	-1,485	-1,569	570	-747	-1,791	-2,575	-818	-374	-1,243	-7,082	-5,046	-3,363
90%	-518	-1,428	-464	-1,281	-1,725	-741	-355	-517	-1,050	-5,241	-2,027	-540
Long Term												
Full Simulation Period[a]	-3,124	-3,646	-3,648	-6,881	-7,502	-8,079	-5,886	-4,883	-3,775	-3,820	-4,685	-2,376
Water Year Types[b]												
Wet (32%)	-4,509	-4,992	-8,491	-11,294	-11,492	-11,624	-10,743	-11,329	-9,499	-3,581	-5,662	-762
Above Normal (15%)	-2,665	-3,424	-2,026	-9,842	-8,577	-11,784	-9,133	-5,904	-3,799	-2,889	-4,090	-1,581
Below Normal (17%)	-3,171	-3,342	-1,364	-6,088	-8,394	-8,284	-4,311	-2,150	-514	-2,985	-3,720	-4,430
Dry (22%)	-2,053	-3,491	-1,176	-2,838	-4,331	-4,759	-1,518	-161	-94	-4,647	-6,663	-4,450
Critical (15%)	-2,133	-1,542	-1,149	-1,348	-1,495	-1,434	-507	-168	-673	-5,003	-1,319	-1,158

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-60-3. Sacramento River d/s of North Delta Diversion, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	15,329	24,384	51,165	63,679	68,541	61,159	50,180	41,880	25,859	23,322	17,874	19,486
20%	13,687	15,781	36,208	56,070	61,018	51,797	38,440	27,790	20,184	22,492	17,435	17,016
30%	12,785	14,510	24,871	41,125	51,014	43,086	23,478	18,536	15,022	21,154	16,777	14,001
40%	11,683	13,507	18,359	30,974	43,531	33,753	20,474	15,172	13,712	20,188	16,461	13,567
50%	11,184	12,156	16,368	24,823	33,515	27,145	16,135	13,545	13,141	19,667	16,023	13,126
60%	10,548	11,106	14,969	19,554	24,680	22,020	13,220	11,917	12,500	19,434	15,547	12,695
70%	9,710	10,791	12,925	15,748	19,908	19,142	11,953	10,835	12,152	19,046	15,080	11,948
80%	8,925	9,564	11,502	13,415	14,871	15,333	11,188	10,027	11,496	17,041	13,312	10,972
90%	7,603	8,404	9,849	12,542	13,019	11,580	9,749	8,774	10,147	14,446	9,996	7,967
Long Term												
Full Simulation Period[a]	11,613	14,788	23,727	31,971	37,116	32,834	23,169	19,175	16,412	19,520	15,210	13,751
Water Year Types[b]												
Wet (32%)	13,505	19,447	39,708	50,961	57,314	49,416	37,809	31,948	23,900	19,876	15,816	18,254
Above Normal (15%)	11,118	15,309	21,663	39,863	45,676	44,495	25,979	21,021	16,309	21,574	15,877	13,198
Below Normal (17%)	11,557	12,574	16,678	23,781	31,934	24,489	17,752	14,227	13,576	20,953	15,643	12,427
Dry (22%)	10,279	12,868	15,442	17,444	21,202	20,656	12,990	10,959	12,222	19,272	16,965	12,155
Critical (15%)	10,073	9,633	11,816	14,281	14,708	13,245	10,229	7,749	9,884	15,397	10,095	8,485

Alternative 4A (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,022	16,564	43,554	56,617	61,983	53,050	43,602	33,882	14,324	16,009	11,561	21,788
20%	8,941	12,588	30,751	47,558	51,971	41,489	29,192	23,486	13,009	14,972	11,560	21,039
30%	8,869	10,955	20,526	33,116	41,144	31,921	21,276	15,372	12,551	13,877	11,559	17,707
40%	8,827	10,006	17,178	21,920	34,970	21,606	17,765	12,777	12,159	13,286	10,861	14,071
50%	8,777	8,578	14,506	19,880	23,303	17,771	15,213	11,641	11,734	12,840	10,249	7,988
60%	8,557	8,432	12,860	17,338	18,510	15,905	11,994	11,149	11,443	12,422	9,801	7,771
70%	8,240	8,357	12,596	14,144	15,445	14,313	11,268	10,408	11,184	11,775	9,479	7,719
80%	7,828	8,132	11,688	12,696	13,598	12,987	10,611	9,649	10,564	11,097	8,778	7,664
90%	7,087	6,976	8,939	11,668	10,955	10,848	9,658	8,321	9,214	9,673	8,256	7,523
Long Term												
Full Simulation Period[a]	8,629	11,578	20,889	27,186	31,332	25,968	20,651	16,559	12,823	12,953	10,198	12,893
Water Year Types[b]												
Wet (32%)	9,504	15,297	33,525	43,705	49,536	39,984	32,960	25,972	15,145	13,967	10,342	20,764
Above Normal (15%)	8,274	12,428	20,114	32,273	38,644	35,175	22,605	18,627	12,568	14,130	11,152	14,634
Below Normal (17%)	8,337	9,508	15,774	18,808	25,058	17,158	16,152	12,249	12,564	13,280	9,881	8,125
Dry (22%)	8,209	9,564	14,054	15,643	17,270	15,858	12,267	10,793	12,127	12,263	10,416	7,697
Critical (15%)	8,057	8,105	10,508	13,396	12,986	11,838	9,853	7,771	9,396	10,234	8,976	7,453

Alternative 4A (ELT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-6,306	-7,820	-7,611	-7,062	-6,558	-8,108	-6,578	-7,997	-11,535	-7,312	-6,313	2,302
20%	-4,746	-3,193	-5,457	-8,513	-9,048	-10,308	-9,249	-4,303	-7,174	-7,519	-5,874	4,023
30%	-3,916	-3,555	-4,345	-8,009	-9,870	-11,166	-2,202	-3,164	-2,470	-7,277	-5,218	3,706
40%	-2,856	-3,500	-1,181	-9,054	-8,561	-12,147	-2,710	-2,395	-1,554	-6,902	-5,600	505
50%	-2,406	-3,578	-1,862	-4,943	-10,213	-9,374	-922	-1,904	-1,407	-6,827	-5,774	-5,138
60%	-1,991	-2,674	-2,109	-2,217	-6,169	-6,115	-1,226	-768	-1,057	-7,012	-5,746	-4,924
70%	-1,470	-2,434	-329	-1,604	-4,462	-4,830	-685	-427	-968	-7,271	-5,602	-4,229
80%	-1,097	-1,432	185	-719	-1,273	-2,346	-577	-379	-932	-5,944	-4,534	-3,308
90%	-516	-1,428	-910	-873	-2,065	-733	-91	-453	-934	-4,773	-1,740	-445
Long Term												
Full Simulation Period[a]	-2,984	-3,210	-2,838	-4,785	-5,784	-6,865	-2,518	-2,616	-3,588	-6,567	-5,012	-858
Water Year Types[b]												
Wet (32%)	-4,001	-4,151	-6,183	-7,256	-7,778	-9,432	-4,849	-5,976	-8,755	-5,909	-5,474	2,510
Above Normal (15%)	-2,844	-2,881	-1,549	-7,590	-7,032	-9,320	-3,374	-2,394	-3,741	-7,444	-4,725	1,436
Below Normal (17%)	-3,220	-3,065	-904	-4,973	-6,876	-7,331	-1,599	-1,978	-1,011	-7,673	-5,762	-4,302
Dry (22%)	-2,070	-3,305	-1,388	-1,800	-3,931	-4,798	-723	-166	-96	-7,009	-6,550	-4,458
Critical (15%)	-2,016	-1,528	-1,309	-885	-1,722	-1,408	-375	21	-488	-5,163	-1,119	-1,032

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-60-4. Sacramento River d/s of North Delta Diversion, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	15,329	24,384	51,165	63,679	68,541	61,159	50,180	41,880	25,859	23,322	17,874	19,486
20%	13,687	15,781	36,208	56,070	61,018	51,797	38,440	27,790	20,184	22,492	17,435	17,016
30%	12,785	14,510	24,871	41,125	51,014	43,086	23,478	18,536	15,022	21,154	16,777	14,001
40%	11,683	13,507	18,359	30,974	43,531	33,753	20,474	15,172	13,712	20,188	16,461	13,567
50%	11,184	12,156	16,368	24,823	33,515	27,145	16,135	13,545	13,141	19,667	16,023	13,126
60%	10,548	11,106	14,969	19,554	24,680	22,020	13,220	11,917	12,500	19,434	15,547	12,695
70%	9,710	10,791	12,925	15,748	19,908	19,142	11,953	10,835	12,152	19,046	15,080	11,948
80%	8,925	9,564	11,502	13,415	14,871	15,333	11,188	10,027	11,496	17,041	13,312	10,972
90%	7,603	8,404	9,849	12,542	13,019	11,580	9,749	8,774	10,147	14,446	9,996	7,967
Long Term												
Full Simulation Period[a]	11,613	14,788	23,727	31,971	37,116	32,834	23,169	19,175	16,412	19,520	15,210	13,751
Water Year Types[b]												
Wet (32%)	13,505	19,447	39,708	50,961	57,314	49,416	37,809	31,948	23,900	19,876	15,816	18,254
Above Normal (15%)	11,118	15,309	21,663	39,863	45,676	44,495	25,979	21,021	16,309	21,574	15,877	13,198
Below Normal (17%)	11,557	12,574	16,678	23,781	31,934	24,489	17,752	14,227	13,576	20,953	15,643	12,427
Dry (22%)	10,279	12,868	15,442	17,444	21,202	20,656	12,990	10,959	12,222	19,272	16,965	12,155
Critical (15%)	10,073	9,633	11,816	14,281	14,708	13,245	10,229	7,749	9,884	15,397	10,095	8,485

Alternative 5A (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	11,513	20,818	47,099	62,053	66,799	59,052	43,267	36,117	16,993	22,814	16,946	21,208
20%	9,901	13,033	31,399	51,513	57,976	47,502	28,836	22,609	15,299	21,475	15,365	19,038
30%	9,118	12,213	20,640	35,401	46,167	38,067	20,001	14,491	13,784	20,613	14,274	18,279
40%	9,029	10,912	17,424	23,108	41,199	25,892	16,927	12,035	13,378	20,088	13,414	12,495
50%	8,984	10,395	15,448	20,815	28,516	21,442	13,309	11,485	12,923	19,365	11,851	7,812
60%	8,949	9,006	14,198	17,863	20,456	17,998	11,520	10,934	12,421	17,418	10,596	7,773
70%	8,868	8,419	13,514	15,130	16,941	16,661	11,001	10,371	11,854	14,864	9,582	7,718
80%	8,350	8,343	12,524	13,650	14,195	13,776	10,343	9,694	11,314	13,895	8,217	7,672
90%	7,289	7,144	9,350	11,703	11,889	11,117	9,656	8,499	9,535	9,060	7,964	7,459
Long Term												
Full Simulation Period[a]	9,413	12,649	22,128	29,346	34,519	29,391	20,203	16,580	14,393	17,529	12,131	12,567
Water Year Types[b]												
Wet (32%)	10,589	17,002	35,758	47,758	54,576	45,323	32,887	26,484	18,269	18,633	12,821	20,050
Above Normal (15%)	8,738	14,246	21,302	35,131	43,217	40,802	21,307	17,804	14,756	20,587	14,491	14,210
Below Normal (17%)	9,648	10,198	16,579	20,619	27,986	19,552	15,066	12,097	13,478	19,295	13,200	7,970
Dry (22%)	8,563	10,120	14,733	16,064	18,862	17,731	11,968	10,852	12,530	17,342	11,261	7,692
Critical (15%)	8,538	8,272	10,989	13,769	13,473	12,433	9,960	7,721	9,494	10,297	8,336	7,383

Alternative 5A (ELT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-3,816	-3,565	-4,066	-1,626	-1,741	-2,107	-6,913	-5,763	-8,866	-507	-928	1,722
20%	-3,787	-2,748	-4,808	-4,557	-3,043	-4,295	-9,604	-5,181	-4,884	-1,017	-2,070	2,022
30%	-3,667	-2,296	-4,231	-5,724	-4,847	-5,019	-3,477	-4,045	-1,238	-541	-2,503	4,278
40%	-2,654	-2,595	-935	-7,867	-2,332	-7,861	-3,547	-3,137	-334	-100	-3,047	-1,072
50%	-2,199	-1,761	-920	-4,008	-4,999	-5,703	-2,827	-2,060	-218	-302	-4,171	-5,314
60%	-1,599	-2,100	-770	-1,692	-4,224	-4,021	-1,700	-983	-79	-2,016	-4,951	-4,923
70%	-842	-2,372	589	-618	-2,967	-2,481	-952	-464	-298	-4,182	-5,499	-4,230
80%	-575	-1,221	1,022	235	-676	-1,557	-845	-334	-182	-3,145	-5,095	-3,301
90%	-314	-1,260	-499	-839	-1,130	-464	-93	-275	-613	-5,387	-2,032	-508
Long Term												
Full Simulation Period[a]	-2,200	-2,139	-1,599	-2,625	-2,596	-3,442	-2,966	-2,594	-2,019	-1,992	-3,079	-1,184
Water Year Types[b]												
Wet (32%)	-2,916	-2,445	-3,950	-3,203	-2,738	-4,093	-4,922	-5,464	-5,631	-1,243	-2,994	1,797
Above Normal (15%)	-2,380	-1,063	-361	-4,732	-2,460	-3,693	-4,672	-3,217	-1,553	-987	-1,386	1,012
Below Normal (17%)	-1,909	-2,376	-99	-3,162	-3,947	-4,937	-2,685	-2,130	-98	-1,658	-2,443	-4,457
Dry (22%)	-1,716	-2,748	-709	-1,380	-2,339	-2,926	-1,022	-107	308	-1,930	-5,704	-4,463
Critical (15%)	-1,535	-1,361	-827	-512	-1,235	-812	-268	-29	-389	-5,100	-1,759	-1,102

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-60-5. Sacramento River d/s of North Delta Diversion, Monthly Flow

No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,159	21,683	48,499	59,309	66,255	56,263	44,533	39,116	19,987	24,289	17,423	29,058
20%	13,316	18,431	33,524	51,680	57,508	48,855	31,838	25,578	15,934	23,691	17,081	26,869
30%	12,383	16,728	22,212	37,038	44,990	37,150	22,999	16,578	13,591	22,907	16,747	22,078
40%	11,650	15,897	18,015	24,374	41,386	29,244	19,791	13,209	13,114	20,942	16,365	20,585
50%	10,734	13,897	15,382	21,650	31,029	23,645	15,461	12,196	12,673	19,877	15,612	13,066
60%	9,280	12,277	14,129	18,268	22,791	20,698	12,769	11,132	12,191	18,646	15,028	11,716
70%	8,968	10,617	13,439	15,832	17,679	18,493	11,265	10,433	11,771	17,683	13,737	10,532
80%	8,307	8,567	12,583	13,491	14,899	14,249	10,540	9,957	11,334	16,334	12,949	8,781
90%	7,234	7,686	9,379	12,291	12,442	11,116	9,676	8,703	10,095	13,305	8,056	7,377
Long Term												
Full Simulation Period[a]	10,913	15,305	22,491	29,880	34,861	30,313	21,490	17,776	14,810	19,452	14,589	16,984
Water Year Types[b]												
Wet (32%)	12,660	20,391	36,447	48,096	54,218	46,091	34,509	28,967	19,662	20,329	15,887	26,759
Above Normal (15%)	10,327	16,775	21,598	35,811	42,926	40,760	23,676	19,550	15,085	22,190	16,573	21,058
Below Normal (17%)	10,552	13,434	16,995	21,370	29,139	21,653	16,666	12,879	13,029	20,969	15,253	12,705
Dry (22%)	10,113	12,395	15,045	16,728	19,888	19,109	12,683	10,768	12,351	18,736	14,602	9,786
Critical (15%)	9,336	9,364	10,728	14,136	13,989	12,594	9,932	7,982	9,787	14,115	8,998	7,518

Alternative 2D (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,016	14,546	39,978	50,817	59,335	50,398	36,062	26,760	15,398	22,425	14,748	18,729
20%	8,941	11,847	29,933	42,343	50,067	39,746	21,848	15,231	13,484	20,677	12,264	17,947
30%	8,869	10,774	19,646	29,631	37,470	27,401	15,944	12,496	13,013	19,884	11,288	13,108
40%	8,833	9,628	16,916	20,512	32,615	20,047	12,991	11,981	12,621	18,002	10,147	11,095
50%	8,762	8,484	14,424	18,615	22,419	17,037	12,134	11,392	11,985	15,948	9,490	7,872
60%	8,529	8,401	13,049	16,135	18,232	15,477	11,229	10,815	11,654	13,056	9,274	7,776
70%	8,141	8,275	12,700	13,713	14,543	14,059	10,740	10,462	10,949	11,360	8,730	7,713
80%	7,440	7,994	12,072	12,668	13,081	12,759	10,370	9,653	10,253	9,959	8,266	7,609
90%	7,085	6,976	9,385	11,260	11,295	10,839	9,394	8,256	9,098	9,206	7,969	7,427
Long Term												
Full Simulation Period[a]	8,489	11,141	20,079	25,090	29,614	24,755	17,283	14,292	12,637	15,700	10,526	11,375
Water Year Types[b]												
Wet (32%)	8,996	14,455	31,217	39,667	45,822	37,791	27,065	20,619	14,401	16,295	10,154	17,492
Above Normal (15%)	8,453	11,885	19,637	30,021	37,099	32,712	16,846	15,117	12,510	18,685	11,786	11,618
Below Normal (17%)	8,387	9,232	15,314	17,692	23,539	16,205	13,441	12,077	13,061	17,968	11,922	7,997
Dry (22%)	8,227	9,378	14,266	14,605	16,871	15,897	11,472	10,798	12,128	14,624	10,302	7,705
Critical (15%)	7,940	8,090	10,667	12,933	13,213	11,811	9,721	7,581	9,210	10,394	8,776	7,327

Alternative 2D (ELT) minus No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-5,144	-7,137	-8,521	-8,492	-6,920	-5,866	-8,471	-12,356	-4,589	-1,865	-2,675	-10,329
20%	-4,375	-6,584	-3,591	-9,337	-7,441	-9,109	-9,991	-10,347	-2,450	-3,014	-4,816	-8,923
30%	-3,514	-5,954	-2,565	-7,408	-7,521	-9,749	-7,055	-4,082	-579	-3,023	-5,459	-8,970
40%	-2,817	-6,269	-1,099	-3,862	-8,771	-9,197	-6,801	-1,228	-493	-2,940	-6,217	-9,490
50%	-1,972	-5,413	-958	-3,035	-8,610	-6,608	-3,327	-804	-688	-3,929	-6,123	-5,194
60%	-751	-3,876	-1,080	-2,133	-4,559	-5,221	-1,540	-317	-537	-5,590	-5,754	-3,939
70%	-827	-2,341	-740	-2,118	-3,136	-4,434	-526	28	-822	-6,323	-5,008	-2,819
80%	-867	-573	-511	-823	-1,819	-1,490	-170	-304	-1,082	-6,375	-4,683	-1,171
90%	-149	-709	6	-1,031	-1,147	-277	-282	-447	-998	-4,100	-87	50
Long Term												
Full Simulation Period[a]	-2,424	-4,164	-2,412	-4,790	-5,247	-5,559	-4,207	-3,485	-2,173	-3,751	-4,063	-5,609
Water Year Types[b]												
Wet (32%)	-3,664	-5,936	-5,230	-8,429	-8,396	-8,299	-7,444	-8,348	-5,261	-4,034	-5,733	-9,267
Above Normal (15%)	-1,875	-4,891	-1,961	-5,790	-5,827	-8,048	-6,831	-4,433	-2,575	-3,506	-4,787	-9,440
Below Normal (17%)	-2,165	-4,202	-1,681	-3,678	-5,600	-5,449	-3,225	-802	33	-3,001	-3,331	-4,708
Dry (22%)	-1,886	-3,017	-778	-2,122	-3,017	-3,211	-1,211	30	-223	-4,112	-4,300	-2,081
Critical (15%)	-1,396	-1,274	-61	-1,203	-776	-782	-211	-400	-577	-3,721	-223	-191

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-60-6. Sacramento River d/s of North Delta Diversion, Monthly Flow

No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,159	21,683	48,499	59,309	66,255	56,263	44,533	39,116	19,987	24,289	17,423	29,058
20%	13,316	18,431	33,524	51,680	57,508	48,855	31,838	25,578	15,934	23,691	17,081	26,869
30%	12,383	16,728	22,212	37,038	44,990	37,150	22,999	16,578	13,591	22,907	16,747	22,078
40%	11,650	15,897	18,015	24,374	41,386	29,244	19,791	13,209	13,114	20,942	16,365	20,585
50%	10,734	13,897	15,382	21,650	31,029	23,645	15,461	12,196	12,673	19,877	15,612	13,066
60%	9,280	12,277	14,129	18,268	22,791	20,698	12,769	11,132	12,191	18,646	15,028	11,716
70%	8,968	10,617	13,439	15,832	17,679	18,493	11,265	10,433	11,771	17,683	13,737	10,532
80%	8,307	8,567	12,583	13,491	14,899	14,249	10,540	9,957	11,334	16,334	12,949	8,781
90%	7,234	7,686	9,379	12,291	12,442	11,116	9,676	8,703	10,095	13,305	8,056	7,377
Long Term												
Full Simulation Period[a]	10,913	15,305	22,491	29,880	34,861	30,313	21,490	17,776	14,810	19,452	14,589	16,984
Water Year Types[b]												
Wet (32%)	12,660	20,391	36,447	48,096	54,218	46,091	34,509	28,967	19,662	20,329	15,887	26,759
Above Normal (15%)	10,327	16,775	21,598	35,811	42,926	40,760	23,676	19,550	15,085	22,190	16,573	21,058
Below Normal (17%)	10,552	13,434	16,995	21,370	29,139	21,653	16,666	12,879	13,029	20,969	15,253	12,705
Dry (22%)	10,113	12,395	15,045	16,728	19,888	19,109	12,683	10,768	12,351	18,736	14,602	9,786
Critical (15%)	9,336	9,364	10,728	14,136	13,989	12,594	9,932	7,982	9,787	14,115	8,998	7,518

Alternative 4A (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,022	16,564	43,554	56,617	61,983	53,050	43,602	33,882	14,324	16,009	11,561	21,788
20%	8,941	12,588	30,751	47,558	51,971	41,489	29,192	23,486	13,009	14,972	11,560	21,039
30%	8,869	10,955	20,526	33,116	41,144	31,921	21,276	15,372	12,551	13,877	11,559	17,707
40%	8,827	10,006	17,178	21,920	34,970	21,606	17,765	12,777	12,159	13,286	10,861	14,071
50%	8,777	8,578	14,506	19,880	23,303	17,771	15,213	11,641	11,734	12,840	10,249	7,988
60%	8,557	8,432	12,860	17,338	18,510	15,905	11,994	11,149	11,443	12,422	9,801	7,771
70%	8,240	8,357	12,596	14,144	15,445	14,313	11,268	10,408	11,184	11,775	9,479	7,719
80%	7,828	8,132	11,688	12,696	13,598	12,987	10,611	9,649	10,564	11,097	8,778	7,664
90%	7,087	6,976	8,939	11,668	10,955	10,848	9,658	8,321	9,214	9,673	8,256	7,523
Long Term												
Full Simulation Period[a]	8,629	11,578	20,889	27,186	31,332	25,968	20,651	16,559	12,823	12,953	10,198	12,893
Water Year Types[b]												
Wet (32%)	9,504	15,297	33,525	43,705	49,536	39,984	32,960	25,972	15,145	13,967	10,342	20,764
Above Normal (15%)	8,274	12,428	20,114	32,273	38,644	35,175	22,605	18,627	12,568	14,130	11,152	14,634
Below Normal (17%)	8,337	9,508	15,774	18,808	25,058	17,158	16,152	12,249	12,564	13,280	9,881	8,125
Dry (22%)	8,209	9,564	14,054	15,643	17,270	15,858	12,267	10,793	12,127	12,263	10,416	7,697
Critical (15%)	8,057	8,105	10,508	13,396	12,986	11,838	9,853	7,771	9,396	10,234	8,976	7,453

Alternative 4A (ELT) minus No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-5,137	-5,119	-4,945	-2,692	-4,273	-3,213	-931	-5,234	-5,664	-8,280	-5,862	-7,269
20%	-4,375	-5,843	-2,773	-4,122	-5,538	-7,366	-2,646	-2,092	-2,924	-8,719	-5,520	-5,831
30%	-3,514	-5,773	-1,686	-3,923	-3,846	-5,229	-1,723	-1,206	-1,040	-9,031	-5,188	-4,371
40%	-2,823	-5,891	-837	-2,454	-6,416	-7,638	-2,027	-432	-955	-7,657	-5,504	-6,514
50%	-1,957	-5,319	-876	-1,770	-7,726	-5,875	-248	-555	-939	-7,037	-5,364	-5,078
60%	-723	-3,845	-1,269	-930	-4,280	-4,793	-775	17	-748	-6,224	-5,227	-3,945
70%	-728	-2,259	-843	-1,688	-2,234	-4,180	2	-25	-587	-5,908	-4,259	-2,814
80%	-479	-435	-896	-795	-1,301	-1,261	71	-308	-770	-5,237	-4,171	-1,117
90%	-147	-709	-440	-623	-1,487	-269	-18	-382	-882	-3,633	200	146
Long Term												
Full Simulation Period[a]	-2,284	-3,728	-1,602	-2,694	-3,529	-4,345	-839	-1,218	-1,986	-6,498	-4,391	-4,091
Water Year Types[b]												
Wet (32%)	-3,156	-5,094	-2,921	-4,391	-4,682	-6,107	-1,549	-2,995	-4,517	-6,362	-5,545	-5,995
Above Normal (15%)	-2,053	-4,348	-1,484	-3,538	-4,282	-5,585	-1,071	-922	-2,517	-8,061	-5,422	-6,424
Below Normal (17%)	-2,215	-3,926	-1,221	-2,563	-4,081	-4,495	-513	-630	-465	-7,689	-5,372	-4,580
Dry (22%)	-1,904	-2,831	-990	-1,084	-2,617	-3,251	-416	25	-224	-6,473	-4,186	-2,089
Critical (15%)	-1,279	-1,260	-220	-740	-1,003	-756	-79	-211	-391	-3,881	-23	-65

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-60-7. Sacramento River d/s of North Delta Diversion, Monthly Flow

No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,159	21,683	48,499	59,309	66,255	56,263	44,533	39,116	19,987	24,289	17,423	29,058
20%	13,316	18,431	33,524	51,680	57,508	48,855	31,838	25,578	15,934	23,691	17,081	26,869
30%	12,383	16,728	22,212	37,038	44,990	37,150	22,999	16,578	13,591	22,907	16,747	22,078
40%	11,650	15,897	18,015	24,374	41,386	29,244	19,791	13,209	13,114	20,942	16,365	20,585
50%	10,734	13,897	15,382	21,650	31,029	23,645	15,461	12,196	12,673	19,877	15,612	13,066
60%	9,280	12,277	14,129	18,268	22,791	20,698	12,769	11,132	12,191	18,646	15,028	11,716
70%	8,968	10,617	13,439	15,832	17,679	18,493	11,265	10,433	11,771	17,683	13,737	10,532
80%	8,307	8,567	12,583	13,491	14,899	14,249	10,540	9,957	11,334	16,334	12,949	8,781
90%	7,234	7,686	9,379	12,291	12,442	11,116	9,676	8,703	10,095	13,305	8,056	7,377
Long Term												
Full Simulation Period[a]	10,913	15,305	22,491	29,880	34,861	30,313	21,490	17,776	14,810	19,452	14,589	16,984
Water Year Types[b]												
Wet (32%)	12,660	20,391	36,447	48,096	54,218	46,091	34,509	28,967	19,662	20,329	15,887	26,759
Above Normal (15%)	10,327	16,775	21,598	35,811	42,926	40,760	23,676	19,550	15,085	22,190	16,573	21,058
Below Normal (17%)	10,552	13,434	16,995	21,370	29,139	21,653	16,666	12,879	13,029	20,969	15,253	12,705
Dry (22%)	10,113	12,395	15,045	16,728	19,888	19,109	12,683	10,768	12,351	18,736	14,602	9,786
Critical (15%)	9,336	9,364	10,728	14,136	13,989	12,594	9,932	7,982	9,787	14,115	8,998	7,518

Alternative 5A (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	11,513	20,818	47,099	62,053	66,799	59,052	43,267	36,117	16,993	22,814	16,946	21,208
20%	9,901	13,033	31,399	51,513	57,976	47,502	28,836	22,609	15,299	21,475	15,365	19,038
30%	9,118	12,213	20,640	35,401	46,167	38,067	20,001	14,491	13,784	20,613	14,274	18,279
40%	9,029	10,912	17,424	23,108	41,199	25,892	16,927	12,035	13,378	20,088	13,414	12,495
50%	8,984	10,395	15,448	20,815	28,516	21,442	13,309	11,485	12,923	19,365	11,851	7,812
60%	8,949	9,006	14,198	17,863	20,456	17,998	11,520	10,934	12,421	17,418	10,596	7,773
70%	8,868	8,419	13,514	15,130	16,941	16,661	11,001	10,371	11,854	14,864	9,582	7,718
80%	8,350	8,343	12,524	13,650	14,195	13,776	10,343	9,694	11,314	13,895	8,217	7,672
90%	7,289	7,144	9,350	11,703	11,889	11,117	9,656	8,499	9,535	9,060	7,964	7,459
Long Term												
Full Simulation Period[a]	9,413	12,649	22,128	29,346	34,519	29,391	20,203	16,580	14,393	17,529	12,131	12,567
Water Year Types[b]												
Wet (32%)	10,589	17,002	35,758	47,758	54,576	45,323	32,887	26,484	18,269	18,633	12,821	20,050
Above Normal (15%)	8,738	14,246	21,302	35,131	43,217	40,802	21,307	17,804	14,756	20,587	14,491	14,210
Below Normal (17%)	9,648	10,198	16,579	20,619	27,986	19,552	15,066	12,097	13,478	19,295	13,200	7,970
Dry (22%)	8,563	10,120	14,733	16,064	18,862	17,731	11,968	10,852	12,530	17,342	11,261	7,692
Critical (15%)	8,538	8,272	10,989	13,769	13,473	12,433	9,960	7,721	9,494	10,297	8,336	7,383

Alternative 5A (ELT) minus No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-2,647	-865	-1,400	2,744	544	2,789	-1,266	-2,999	-2,995	-1,475	-477	-7,850
20%	-3,415	-5,397	-2,125	-167	467	-1,353	-3,002	-2,970	-634	-2,216	-1,716	-7,832
30%	-3,266	-4,515	-1,571	-1,637	1,176	917	-2,998	-2,088	192	-2,295	-2,474	-3,799
40%	-2,621	-4,985	-591	-1,266	-187	-3,352	-2,864	-1,174	264	-855	-2,950	-8,090
50%	-1,750	-3,503	66	-835	-2,513	-2,203	-2,152	-711	250	-513	-3,761	-5,254
60%	-331	-3,271	69	-405	-2,335	-2,699	-1,250	-198	230	-1,228	-4,432	-3,943
70%	-100	-2,198	75	-702	-738	-1,832	-265	-62	83	-2,819	-4,156	-2,815
80%	43	-224	-59	159	-704	-473	-197	-263	-21	-2,439	-4,732	-1,109
90%	55	-541	-29	-588	-552	0	-20	-204	-560	-4,246	-92	82
Long Term												
Full Simulation Period[a]	-1,501	-2,656	-363	-534	-341	-922	-1,287	-1,196	-417	-1,923	-2,457	-4,417
Water Year Types[b]												
Wet (32%)	-2,071	-3,388	-688	-338	358	-768	-1,622	-2,483	-1,393	-1,696	-3,065	-6,709
Above Normal (15%)	-1,589	-2,529	-296	-680	291	42	-2,370	-1,746	-329	-1,604	-2,082	-6,848
Below Normal (17%)	-904	-3,236	-416	-751	-1,153	-2,102	-1,599	-782	449	-1,673	-2,053	-4,735
Dry (22%)	-1,550	-2,275	-312	-664	-1,025	-1,378	-715	84	179	-1,394	-3,340	-2,094
Critical (15%)	-798	-1,092	261	-367	-517	-160	28	-261	-293	-3,818	-663	-134

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

C.61. Yolo Bypass Flow

Table C-61-1. Yolo Bypass, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	74	425	13,029	34,322	44,019	23,884	6,581	314	66	47	181	168
20%	59	105	2,852	12,944	17,808	7,921	3,162	75	66	47	54	82
30%	57	40	955	4,016	7,657	3,425	532	70	66	47	54	57
40%	50	9	313	1,888	5,306	1,737	196	67	66	47	54	57
50%	47	8	155	552	2,361	940	133	65	66	47	54	57
60%	40	5	36	315	700	359	110	62	65	47	54	57
70%	34	1	5	115	234	115	86	60	64	47	54	56
80%	17	0	0	50	58	47	73	56	63	47	54	54
90%	8	0	0	4	1	6	53	50	61	47	53	50
Long Term												
Full Simulation Period[a]	144	432	3,669	9,989	12,908	8,508	2,428	267	120	47	102	81
Water Year Types[b]												
Wet (32%)	305	1,196	9,767	26,963	31,634	21,628	6,490	640	240	47	149	76
Above Normal (15%)	37	132	1,663	7,560	13,234	9,041	1,400	183	65	47	96	68
Below Normal (17%)	52	29	1,408	1,007	3,018	715	488	64	64	47	116	88
Dry (22%)	125	120	353	536	1,703	749	306	76	65	47	61	74
Critical (15%)	39	15	78	299	352	279	104	65	63	47	54	109

No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	175	575	17,006	41,785	55,660	29,439	11,723	337	168	48	174	261
20%	163	245	6,443	18,261	25,824	14,023	7,215	178	168	48	55	189
30%	160	150	2,496	9,076	13,809	8,630	2,041	173	168	48	55	159
40%	154	117	806	4,739	9,735	5,161	506	170	168	48	55	159
50%	147	109	497	1,916	5,161	2,883	268	168	167	48	55	159
60%	141	105	228	910	2,182	1,337	229	165	167	48	55	159
70%	129	100	151	472	687	657	211	163	166	48	55	158
80%	116	100	106	164	239	227	186	159	164	48	55	156
90%	105	100	100	104	122	149	170	153	162	48	54	152
Long Term												
Full Simulation Period[a]	204	556	5,515	13,301	17,240	11,650	4,069	309	183	48	101	189
Water Year Types[b]												
Wet (32%)	274	1,359	13,950	34,296	41,040	27,584	10,322	555	220	48	147	203
Above Normal (15%)	139	318	3,221	10,903	17,212	14,013	3,148	283	166	48	95	165
Below Normal (17%)	149	133	2,570	2,557	5,595	1,962	1,144	167	166	48	114	185
Dry (22%)	230	168	671	1,340	2,902	1,900	497	177	167	48	62	165
Critical (15%)	141	127	239	685	795	694	212	168	164	48	54	221

No Action Alternative (ELT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	101	150	3,977	7,462	11,641	5,556	5,142	23	102	1	-8	94
20%	104	140	3,590	5,317	8,016	6,102	4,053	103	102	1	1	108
30%	104	110	1,540	5,060	6,152	5,205	1,509	103	102	1	1	102
40%	104	107	494	2,852	4,430	3,424	311	103	102	1	1	102
50%	100	101	341	1,364	2,800	1,943	135	103	102	1	1	102
60%	101	101	192	595	1,482	978	119	103	102	1	1	102
70%	95	99	146	357	454	541	126	103	102	1	1	102
80%	99	100	106	114	182	180	113	103	102	1	1	102
90%	97	100	100	100	121	143	117	103	102	1	1	102
Long Term												
Full Simulation Period[a]	59	124	1,846	3,312	4,332	3,143	1,640	43	63	1	-1	108
Water Year Types[b]												
Wet (32%)	-32	163	4,183	7,333	9,405	5,957	3,831	-85	-20	1	-2	127
Above Normal (15%)	102	186	1,558	3,343	3,978	4,972	1,748	100	102	1	-1	97
Below Normal (17%)	97	105	1,162	1,551	2,576	1,247	656	103	102	1	-2	97
Dry (22%)	105	48	318	804	1,199	1,150	191	101	102	1	1	91
Critical (15%)	103	112	161	386	443	415	108	103	102	1	1	111

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-61-2. Yolo Bypass, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	74	425	13,029	34,322	44,019	23,884	6,581	314	66	47	181	168
20%	59	105	2,852	12,944	17,808	7,921	3,162	75	66	47	54	82
30%	57	40	955	4,016	7,657	3,425	532	70	66	47	54	57
40%	50	9	313	1,888	5,306	1,737	196	67	66	47	54	57
50%	47	8	155	552	2,361	940	133	65	66	47	54	57
60%	40	5	36	315	700	359	110	62	65	47	54	57
70%	34	1	5	115	234	115	86	60	64	47	54	56
80%	17	0	0	50	58	47	73	56	63	47	54	54
90%	8	0	0	4	1	6	53	50	61	47	53	50
Long Term												
Full Simulation Period[a]	144	432	3,669	9,989	12,908	8,508	2,428	267	120	47	102	81
Water Year Types[b]												
Wet (32%)	305	1,196	9,767	26,963	31,634	21,628	6,490	640	240	47	149	76
Above Normal (15%)	37	132	1,663	7,560	13,234	9,041	1,400	183	65	47	96	68
Below Normal (17%)	52	29	1,408	1,007	3,018	715	488	64	64	47	116	88
Dry (22%)	125	120	353	536	1,703	749	306	76	65	47	61	74
Critical (15%)	39	15	78	299	352	279	104	65	63	47	54	109

Alternative 2D (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	575	11,538	36,990	51,914	23,252	10,346	337	168	48	174	254
20%	163	245	6,136	15,765	22,129	11,046	7,214	178	168	48	55	171
30%	161	150	2,508	8,237	12,054	8,312	2,052	173	168	48	55	159
40%	154	125	785	4,813	9,632	5,114	506	170	168	48	55	159
50%	149	109	496	2,257	4,878	2,851	268	168	167	48	55	159
60%	143	106	240	916	3,139	1,531	229	165	167	48	55	159
70%	138	101	152	503	704	651	213	163	166	48	55	158
80%	121	100	106	164	249	252	187	159	164	48	55	155
90%	111	100	100	121	124	149	173	153	162	48	54	152
Long Term												
Full Simulation Period[a]	188	541	5,074	12,553	16,326	10,677	3,691	310	183	48	95	184
Water Year Types[b]												
Wet (32%)	225	1,348	13,024	32,490	38,631	25,368	9,251	556	220	48	136	203
Above Normal (15%)	143	240	2,505	9,632	16,894	12,349	2,897	283	166	48	87	165
Below Normal (17%)	153	135	2,297	2,714	5,242	1,952	1,109	167	166	48	106	185
Dry (22%)	225	169	691	1,263	2,702	1,783	516	177	167	48	62	165
Critical (15%)	141	127	229	691	795	696	213	168	164	48	54	186

Alternative 2D (ELT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	102	150	**-1,492**	2,668	7,896	**-632**	3,764	23	102	1	**-8**	87
20%	104	140	3,284	2,821	4,321	3,126	4,051	103	102	1	1	89
30%	104	110	1,553	4,221	4,397	4,888	1,520	103	102	1	1	102
40%	104	115	472	2,925	4,326	3,377	311	103	102	1	1	102
50%	102	101	341	1,704	2,517	1,910	135	103	102	1	1	102
60%	103	102	204	602	2,439	1,172	120	103	102	1	1	102
70%	103	100	147	389	471	535	127	103	102	1	1	102
80%	103	100	106	114	191	204	114	103	102	1	1	102
90%	103	100	100	117	124	143	120	103	102	1	1	102
Long Term												
Full Simulation Period[a]	44	110	1,404	2,564	3,418	2,169	1,263	43	63	1	**-7**	102
Water Year Types[b]												
Wet (32%)	**-81**	153	3,257	5,527	6,997	3,741	2,761	**-84**	**-20**	1	**-13**	127
Above Normal (15%)	106	109	842	2,072	3,660	3,308	1,497	100	102	1	**-10**	97
Below Normal (17%)	101	106	889	1,708	2,224	1,237	621	103	102	1	**-10**	97
Dry (22%)	101	49	338	727	999	1,034	210	101	102	1	1	91
Critical (15%)	103	112	151	392	443	417	108	103	102	1	1	77

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-61-3. Yolo Bypass, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	74	425	13,029	34,322	44,019	23,884	6,581	314	66	47	181	168
20%	59	105	2,852	12,944	17,808	7,921	3,162	75	66	47	54	82
30%	57	40	955	4,016	7,657	3,425	532	70	66	47	54	57
40%	50	9	313	1,888	5,306	1,737	196	67	66	47	54	57
50%	47	8	155	552	2,361	940	133	65	66	47	54	57
60%	40	5	36	315	700	359	110	62	65	47	54	57
70%	34	1	5	115	234	115	86	60	64	47	54	56
80%	17	0	0	50	58	47	73	56	63	47	54	54
90%	8	0	0	4	1	6	53	50	61	47	53	50
Long Term												
Full Simulation Period[a]	144	432	3,669	9,989	12,908	8,508	2,428	267	120	47	102	81
Water Year Types[b]												
Wet (32%)	305	1,196	9,767	26,963	31,634	21,628	6,490	640	240	47	149	76
Above Normal (15%)	37	132	1,663	7,560	13,234	9,041	1,400	183	65	47	96	68
Below Normal (17%)	52	29	1,408	1,007	3,018	715	488	64	64	47	116	88
Dry (22%)	125	120	353	536	1,703	749	306	76	65	47	61	74
Critical (15%)	39	15	78	299	352	279	104	65	63	47	54	109

Alternative 4A (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	575	12,262	32,968	51,929	26,580	10,346	247	168	48	117	254
20%	163	245	6,410	15,755	22,387	11,204	7,375	178	168	48	55	166
30%	161	150	2,498	8,244	12,290	8,493	2,033	173	168	48	55	159
40%	154	125	788	4,823	9,240	5,037	447	170	168	48	55	159
50%	149	109	496	2,260	5,041	2,884	248	168	167	48	55	159
60%	143	107	244	1,173	2,375	1,533	222	165	167	48	55	159
70%	138	101	153	467	688	720	200	163	166	48	55	158
80%	121	100	103	148	231	254	186	159	164	48	55	155
90%	111	100	100	102	122	149	170	153	162	48	54	152
Long Term												
Full Simulation Period[a]	200	594	5,031	12,584	16,260	10,793	3,681	308	183	48	89	185
Water Year Types[b]												
Wet (32%)	262	1,489	12,944	32,661	38,726	25,646	9,244	556	220	48	121	203
Above Normal (15%)	143	290	2,211	9,361	16,643	12,357	2,898	283	166	48	87	165
Below Normal (17%)	153	137	2,420	2,729	4,827	2,156	1,101	167	166	48	99	185
Dry (22%)	225	169	716	1,312	2,757	1,745	484	171	167	48	59	165
Critical (15%)	141	127	229	714	793	696	214	168	164	48	54	197

Alternative 4A (ELT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	102	150	**-767**	**-1,355**	7,910	2,696	3,765	**-67**	102	1	**-65**	87
20%	104	140	3,558	2,812	4,580	3,283	4,213	103	102	1	1	85
30%	104	110	1,543	4,228	4,633	5,068	1,501	103	102	1	1	102
40%	104	115	475	2,936	3,934	3,300	251	103	102	1	1	102
50%	102	102	341	1,707	2,679	1,943	115	103	102	1	1	102
60%	103	102	208	859	1,675	1,174	113	103	102	1	1	102
70%	103	100	148	353	454	604	115	103	102	1	1	102
80%	103	100	103	98	174	206	113	103	102	1	1	102
90%	103	100	100	98	121	143	117	103	102	1	1	102
Long Term												
Full Simulation Period[a]	56	162	1,362	2,595	3,352	2,285	1,252	42	63	1	**-13**	104
Water Year Types[b]												
Wet (32%)	**-43**	294	3,177	5,698	7,091	4,019	2,754	**-84**	**-20**	1	**-28**	127
Above Normal (15%)	106	158	548	1,801	3,408	3,316	1,498	100	102	1	**-10**	97
Below Normal (17%)	101	108	1,012	1,722	1,808	1,442	614	103	102	1	**-17**	97
Dry (22%)	101	49	364	776	1,054	996	178	96	102	1	**-2**	91
Critical (15%)	103	112	152	415	441	417	109	103	102	1	1	88

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-61-4. Yolo Bypass, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	74	425	13,029	34,322	44,019	23,884	6,581	314	66	47	181	168
20%	59	105	2,852	12,944	17,808	7,921	3,162	75	66	47	54	82
30%	57	40	955	4,016	7,657	3,425	532	70	66	47	54	57
40%	50	9	313	1,888	5,306	1,737	196	67	66	47	54	57
50%	47	8	155	552	2,361	940	133	65	66	47	54	57
60%	40	5	36	315	700	359	110	62	65	47	54	57
70%	34	1	5	115	234	115	86	60	64	47	54	56
80%	17	0	0	50	58	47	73	56	63	47	54	54
90%	8	0	0	4	1	6	53	50	61	47	53	50
Long Term												
Full Simulation Period[a]	144	432	3,669	9,989	12,908	8,508	2,428	267	120	47	102	81
Water Year Types[b]												
Wet (32%)	305	1,196	9,767	26,963	31,634	21,628	6,490	640	240	47	149	76
Above Normal (15%)	37	132	1,663	7,560	13,234	9,041	1,400	183	65	47	96	68
Below Normal (17%)	52	29	1,408	1,007	3,018	715	488	64	64	47	116	88
Dry (22%)	125	120	353	536	1,703	749	306	76	65	47	61	74
Critical (15%)	39	15	78	299	352	279	104	65	63	47	54	109

Alternative 5A (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	164	575	12,206	35,958	51,919	26,528	10,346	337	168	48	183	267
20%	162	245	6,270	15,530	22,396	11,042	7,213	178	168	48	55	185
30%	160	150	2,507	8,228	11,842	8,688	2,051	173	168	48	55	159
40%	154	123	822	4,865	9,589	5,114	506	170	168	48	55	159
50%	146	109	540	2,166	5,040	2,810	272	168	167	48	55	159
60%	141	106	274	989	2,394	1,540	229	165	167	48	55	159
70%	129	101	156	541	653	812	211	163	166	48	55	158
80%	116	100	106	164	250	251	187	159	164	48	55	156
90%	106	100	100	108	122	149	173	153	162	48	54	152
Long Term												
Full Simulation Period[a]	197	588	5,117	12,508	16,104	10,788	3,689	310	183	48	99	187
Water Year Types[b]												
Wet (32%)	261	1,470	13,133	32,416	38,480	25,682	9,256	556	220	48	139	211
Above Normal (15%)	138	294	2,422	9,411	16,108	12,318	2,898	283	166	48	95	165
Below Normal (17%)	147	137	2,392	2,773	4,845	1,995	1,108	167	166	48	114	185
Dry (22%)	221	168	704	1,263	2,741	1,822	501	177	167	48	62	171
Critical (15%)	141	127	246	693	796	696	212	168	164	48	54	181

Alternative 5A (ELT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	90	150	-824	1,635	7,900	2,644	3,764	23	102	1	2	100
20%	103	140	3,418	2,587	4,588	3,121	4,051	103	102	1	1	103
30%	103	110	1,551	4,212	4,185	5,263	1,519	103	102	1	1	102
40%	103	113	509	2,977	4,283	3,377	311	103	102	1	1	102
50%	98	101	385	1,614	2,679	1,869	139	103	102	1	1	102
60%	101	102	238	675	1,694	1,181	119	103	102	1	1	102
70%	95	100	151	427	420	697	126	103	102	1	1	102
80%	99	100	106	114	192	203	114	103	102	1	1	102
90%	98	100	100	104	121	143	120	103	102	1	1	102
Long Term												
Full Simulation Period[a]	53	156	1,448	2,519	3,196	2,280	1,261	43	63	1	-3	105
Water Year Types[b]												
Wet (32%)	-44	274	3,366	5,454	6,845	4,054	2,766	-84	-20	1	-10	135
Above Normal (15%)	101	162	759	1,851	2,873	3,278	1,498	100	102	1	-1	97
Below Normal (17%)	95	108	985	1,766	1,827	1,281	621	103	102	1	-2	97
Dry (22%)	96	48	351	727	1,038	1,073	195	101	102	1	2	97
Critical (15%)	103	112	168	395	445	416	108	103	102	1	1	72

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-61-5. Yolo Bypass, Monthly Flow

No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	175	575	17,006	41,785	55,660	29,439	11,723	337	168	48	174	261
20%	163	245	6,443	18,261	25,824	14,023	7,215	178	168	48	55	189
30%	160	150	2,496	9,076	13,809	8,630	2,041	173	168	48	55	159
40%	154	117	806	4,739	9,735	5,161	506	170	168	48	55	159
50%	147	109	497	1,916	5,161	2,883	268	168	167	48	55	159
60%	141	105	228	910	2,182	1,337	229	165	167	48	55	159
70%	129	100	151	472	687	657	211	163	166	48	55	158
80%	116	100	106	164	239	227	186	159	164	48	55	156
90%	105	100	100	104	122	149	170	153	162	48	54	152
Long Term												
Full Simulation Period[a]	204	556	5,515	13,301	17,240	11,650	4,069	309	183	48	101	189
Water Year Types[b]												
Wet (32%)	274	1,359	13,950	34,296	41,040	27,584	10,322	555	220	48	147	203
Above Normal (15%)	139	318	3,221	10,903	17,212	14,013	3,148	283	166	48	95	165
Below Normal (17%)	149	133	2,570	2,557	5,595	1,962	1,144	167	166	48	114	185
Dry (22%)	230	168	671	1,340	2,902	1,900	497	177	167	48	62	165
Critical (15%)	141	127	239	685	795	694	212	168	164	48	54	221

Alternative 2D (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	575	11,538	36,990	51,914	23,252	10,346	337	168	48	174	254
20%	163	245	6,136	15,765	22,129	11,046	7,214	178	168	48	55	171
30%	161	150	2,508	8,237	12,054	8,312	2,052	173	168	48	55	159
40%	154	125	785	4,813	9,632	5,114	506	170	168	48	55	159
50%	149	109	496	2,257	4,878	2,851	268	168	167	48	55	159
60%	143	106	240	916	3,139	1,531	229	165	167	48	55	159
70%	138	101	152	503	704	651	213	163	166	48	55	158
80%	121	100	106	164	249	252	187	159	164	48	55	155
90%	111	100	100	121	124	149	173	153	162	48	54	152
Long Term												
Full Simulation Period[a]	188	541	5,074	12,553	16,326	10,677	3,691	310	183	48	95	184
Water Year Types[b]												
Wet (32%)	225	1,348	13,024	32,490	38,631	25,368	9,251	556	220	48	136	203
Above Normal (15%)	143	240	2,505	9,632	16,894	12,349	2,897	283	166	48	87	165
Below Normal (17%)	153	135	2,297	2,714	5,242	1,952	1,109	167	166	48	106	185
Dry (22%)	225	169	691	1,263	2,702	1,783	516	177	167	48	62	165
Critical (15%)	141	127	229	691	795	696	213	168	164	48	54	186

Alternative 2D (ELT) minus No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2	0	**-5,468**	**-4,795**	**-3,746**	**-6,187**	**-1,378**	**0**	0	0	**0**	**-7**
20%	0	0	**-307**	**-2,496**	**-3,695**	**-2,977**	**-1**	0	0	0	0	**-18**
30%	0	0	13	**-839**	**-1,754**	**-318**	11	0	0	0	0	0
40%	0	8	**-22**	74	**-104**	**-47**	0	0	0	0	0	0
50%	2	0	**-1**	340	**-283**	**-33**	0	0	0	0	0	0
60%	2	1	12	7	957	194	1	0	0	0	0	0
70%	9	1	1	31	17	**-6**	1	0	0	0	0	**0**
80%	5	0	0	0	9	25	1	0	0	0	0	**0**
90%	6	0	0	17	2	0	3	0	0	0	0	**0**
Long Term												
Full Simulation Period[a]	**-15**	**-14**	**-442**	**-748**	**-914**	**-973**	**-378**	0	0	0	**-6**	**-5**
Water Year Types[b]												
Wet (32%)	**-49**	**-11**	**-925**	**-1,806**	**-2,408**	**-2,216**	**-1,070**	0	0	0	**-11**	**0**
Above Normal (15%)	5	**-77**	**-716**	**-1,271**	**-318**	**-1,664**	**-251**	**0**	0	0	**-8**	0
Below Normal (17%)	4	1	**-273**	157	**-353**	**-10**	**-35**	0	0	0	**-7**	0
Dry (22%)	**-5**	2	20	**-77**	**-200**	**-116**	19	0	0	0	0	0
Critical (15%)	0	0	**-10**	6	**0**	2	0	0	0	0	0	**-34**

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-61-6. Yolo Bypass, Monthly Flow

No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	175	575	17,006	41,785	55,660	29,439	11,723	337	168	48	174	261
20%	163	245	6,443	18,261	25,824	14,023	7,215	178	168	48	55	189
30%	160	150	2,496	9,076	13,809	8,630	2,041	173	168	48	55	159
40%	154	117	806	4,739	9,735	5,161	506	170	168	48	55	159
50%	147	109	497	1,916	5,161	2,883	268	168	167	48	55	159
60%	141	105	228	910	2,182	1,337	229	165	167	48	55	159
70%	129	100	151	472	687	657	211	163	166	48	55	158
80%	116	100	106	164	239	227	186	159	164	48	55	156
90%	105	100	100	104	122	149	170	153	162	48	54	152
Long Term												
Full Simulation Period[a]	204	556	5,515	13,301	17,240	11,650	4,069	309	183	48	101	189
Water Year Types[b]												
Wet (32%)	274	1,359	13,950	34,296	41,040	27,584	10,322	555	220	48	147	203
Above Normal (15%)	139	318	3,221	10,903	17,212	14,013	3,148	283	166	48	95	165
Below Normal (17%)	149	133	2,570	2,557	5,595	1,962	1,144	167	166	48	114	185
Dry (22%)	230	168	671	1,340	2,902	1,900	497	177	167	48	62	165
Critical (15%)	141	127	239	685	795	694	212	168	164	48	54	221

Alternative 4A (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	575	12,262	32,968	51,929	26,580	10,346	247	168	48	117	254
20%	163	245	6,410	15,755	22,387	11,204	7,375	178	168	48	55	166
30%	161	150	2,498	8,244	12,290	8,493	2,033	173	168	48	55	159
40%	154	125	788	4,823	9,240	5,037	447	170	168	48	55	159
50%	149	109	496	2,260	5,041	2,884	248	168	167	48	55	159
60%	143	107	244	1,173	2,375	1,533	222	165	167	48	55	159
70%	138	101	153	467	688	720	200	163	166	48	55	158
80%	121	100	103	148	231	254	186	159	164	48	55	155
90%	111	100	100	102	122	149	170	153	162	48	54	152
Long Term												
Full Simulation Period[a]	200	594	5,031	12,584	16,260	10,793	3,681	308	183	48	89	185
Water Year Types[b]												
Wet (32%)	262	1,489	12,944	32,661	38,726	25,646	9,244	556	220	48	121	203
Above Normal (15%)	143	290	2,211	9,361	16,643	12,357	2,898	283	166	48	87	165
Below Normal (17%)	153	137	2,420	2,729	4,827	2,156	1,101	167	166	48	99	185
Dry (22%)	225	169	716	1,312	2,757	1,745	484	171	167	48	59	165
Critical (15%)	141	127	229	714	793	696	214	168	164	48	54	197

Alternative 4A (ELT) minus No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2	0	**-4,744**	**-8,817**	**-3,731**	**-2,860**	**-1,378**	**-90**	0	0	**-57**	**-7**
20%	0	0	**-32**	**-2,506**	**-3,437**	**-2,819**	160	0	0	0	0	**-23**
30%	0	0	2	**-832**	**-1,519**	**-137**	**-8**	0	0	0	0	0
40%	0	8	**-18**	84	**-495**	**-125**	**-60**	0	0	0	0	0
50%	2	1	**-1**	344	**-121**	0	**-19**	0	0	0	0	0
60%	2	1	15	264	193	196	**-6**	0	0	0	0	0
70%	9	1	1	**-5**	0	63	**-11**	0	0	0	0	**0**
80%	5	0	**-3**	**-15**	**-8**	27	0	0	0	0	0	**0**
90%	6	0	0	**-2**	0	0	0	0	0	0	0	**0**
Long Term												
Full Simulation Period[a]	**-3**	38	**-484**	**-717**	**-980**	**-857**	**-388**	**-1**	0	0	**-12**	**-3**
Water Year Types[b]												
Wet (32%)	**-11**	130	**-1,006**	**-1,636**	**-2,314**	**-1,938**	**-1,077**	1	0	0	**-26**	0
Above Normal (15%)	5	**-28**	**-1,010**	**-1,542**	**-569**	**-1,656**	**-250**	**0**	0	0	**-8**	0
Below Normal (17%)	4	3	**-150**	172	**-768**	194	**-42**	0	0	0	**-14**	0
Dry (22%)	**-5**	2	46	**-28**	**-144**	**-154**	**-13**	**-6**	0	0	**-3**	0
Critical (15%)	0	0	**-10**	29	**-2**	2	1	0	0	0	0	**-24**

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-61-7. Yolo Bypass, Monthly Flow

No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	175	575	17,006	41,785	55,660	29,439	11,723	337	168	48	174	261
20%	163	245	6,443	18,261	25,824	14,023	7,215	178	168	48	55	189
30%	160	150	2,496	9,076	13,809	8,630	2,041	173	168	48	55	159
40%	154	117	806	4,739	9,735	5,161	506	170	168	48	55	159
50%	147	109	497	1,916	5,161	2,883	268	168	167	48	55	159
60%	141	105	228	910	2,182	1,337	229	165	167	48	55	159
70%	129	100	151	472	687	657	211	163	166	48	55	158
80%	116	100	106	164	239	227	186	159	164	48	55	156
90%	105	100	100	104	122	149	170	153	162	48	54	152
Long Term												
Full Simulation Period[a]	204	556	5,515	13,301	17,240	11,650	4,069	309	183	48	101	189
Water Year Types[b]												
Wet (32%)	274	1,359	13,950	34,296	41,040	27,584	10,322	555	220	48	147	203
Above Normal (15%)	139	318	3,221	10,903	17,212	14,013	3,148	283	166	48	95	165
Below Normal (17%)	149	133	2,570	2,557	5,595	1,962	1,144	167	166	48	114	185
Dry (22%)	230	168	671	1,340	2,902	1,900	497	177	167	48	62	165
Critical (15%)	141	127	239	685	795	694	212	168	164	48	54	221

Alternative 5A (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	164	575	12,206	35,958	51,919	26,528	10,346	337	168	48	183	267
20%	162	245	6,270	15,530	22,396	11,042	7,213	178	168	48	55	185
30%	160	150	2,507	8,228	11,842	8,688	2,051	173	168	48	55	159
40%	154	123	822	4,865	9,589	5,114	506	170	168	48	55	159
50%	146	109	540	2,166	5,040	2,810	272	168	167	48	55	159
60%	141	106	274	989	2,394	1,540	229	165	167	48	55	159
70%	129	101	156	541	653	812	211	163	166	48	55	158
80%	116	100	106	164	250	251	187	159	164	48	55	156
90%	106	100	100	108	122	149	173	153	162	48	54	152
Long Term												
Full Simulation Period[a]	197	588	5,117	12,508	16,104	10,788	3,689	310	183	48	99	187
Water Year Types[b]												
Wet (32%)	261	1,470	13,133	32,416	38,480	25,682	9,256	556	220	48	139	211
Above Normal (15%)	138	294	2,422	9,411	16,108	12,318	2,898	283	166	48	95	165
Below Normal (17%)	147	137	2,392	2,773	4,845	1,995	1,108	167	166	48	114	185
Dry (22%)	221	168	704	1,263	2,741	1,822	501	177	167	48	62	171
Critical (15%)	141	127	246	693	796	696	212	168	164	48	54	181

Alternative 5A (ELT) minus No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-11	0	-4,800	-5,827	-3,741	-2,911	-1,378	0	0	0	9	6
20%	0	0	-172	-2,730	-3,428	-2,981	-1	0	0	0	0	-4
30%	-1	0	11	-848	-1,967	58	10	0	0	0	0	0
40%	0	6	15	126	-146	-48	0	0	0	0	0	0
50%	-1	0	43	250	-121	-74	4	0	0	0	0	0
60%	0	1	46	80	212	203	0	0	0	0	0	0
70%	1	0	5	69	-34	156	0	0	0	0	0	0
80%	0	0	0	0	10	24	1	0	0	0	0	0
90%	1	0	0	5	0	0	3	0	0	0	0	0
Long Term												
Full Simulation Period[a]	-6	32	-398	-793	-1,136	-862	-380	0	0	0	-2	-2
Water Year Types[b]												
Wet (32%)	-12	111	-816	-1,880	-2,560	-1,902	-1,066	1	0	0	-7	8
Above Normal (15%)	-1	-24	-799	-1,492	-1,105	-1,695	-250	0	0	0	0	0
Below Normal (17%)	-2	3	-177	216	-750	33	-35	0	0	0	0	0
Dry (22%)	-9	0	33	-77	-161	-78	4	0	0	0	1	6
Critical (15%)	0	0	7	9	2	2	0	0	0	0	0	-40

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

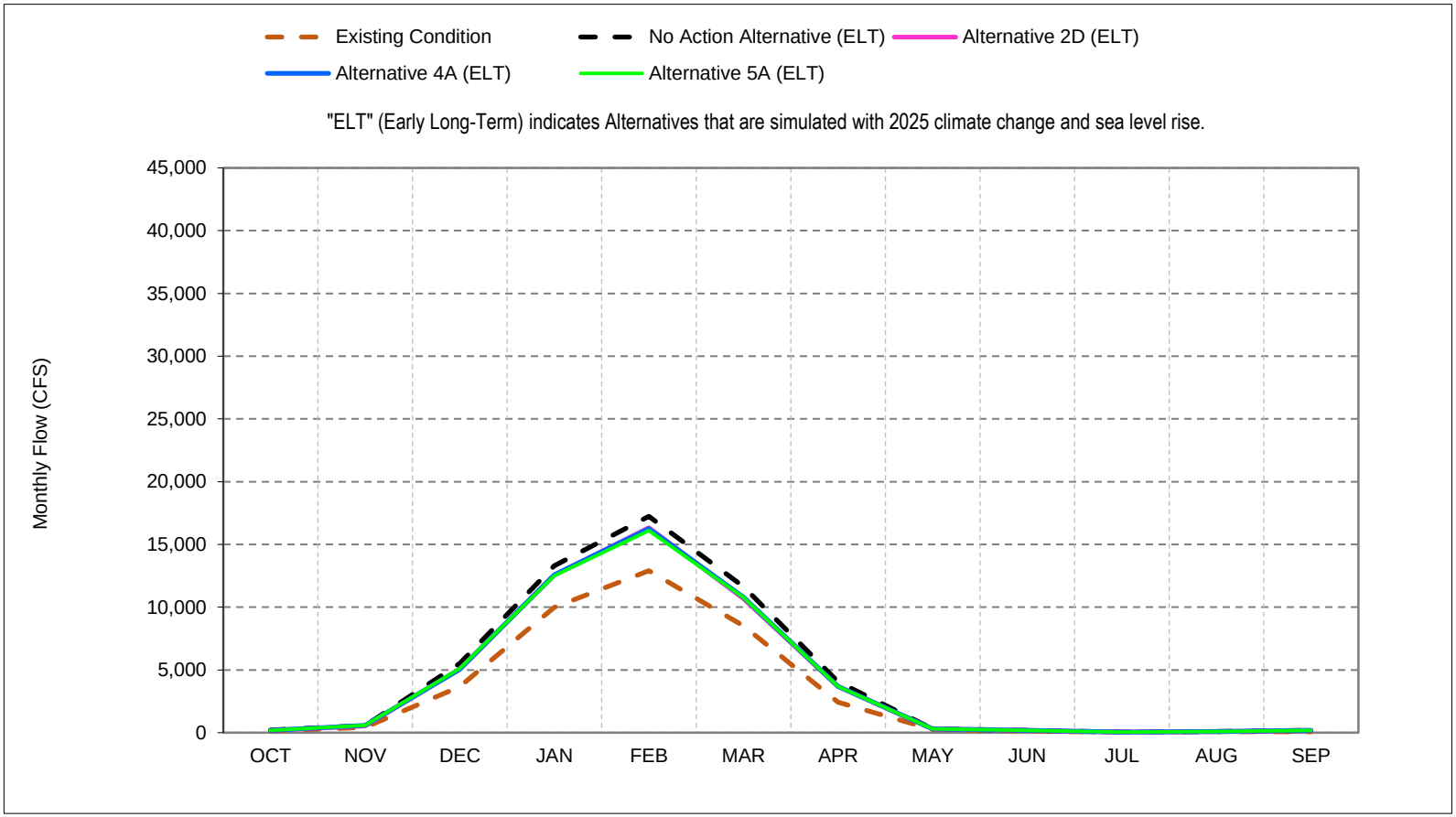
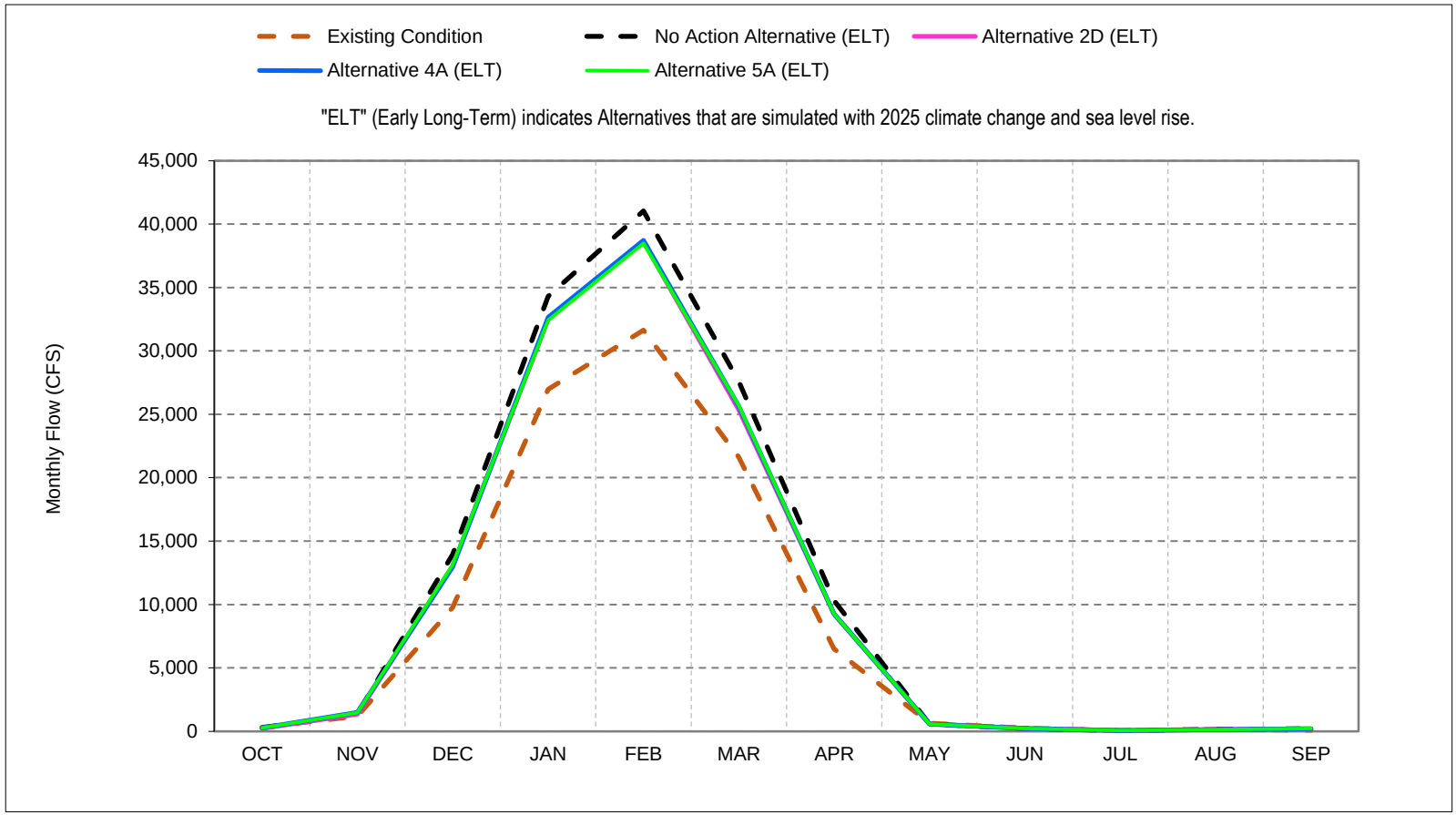
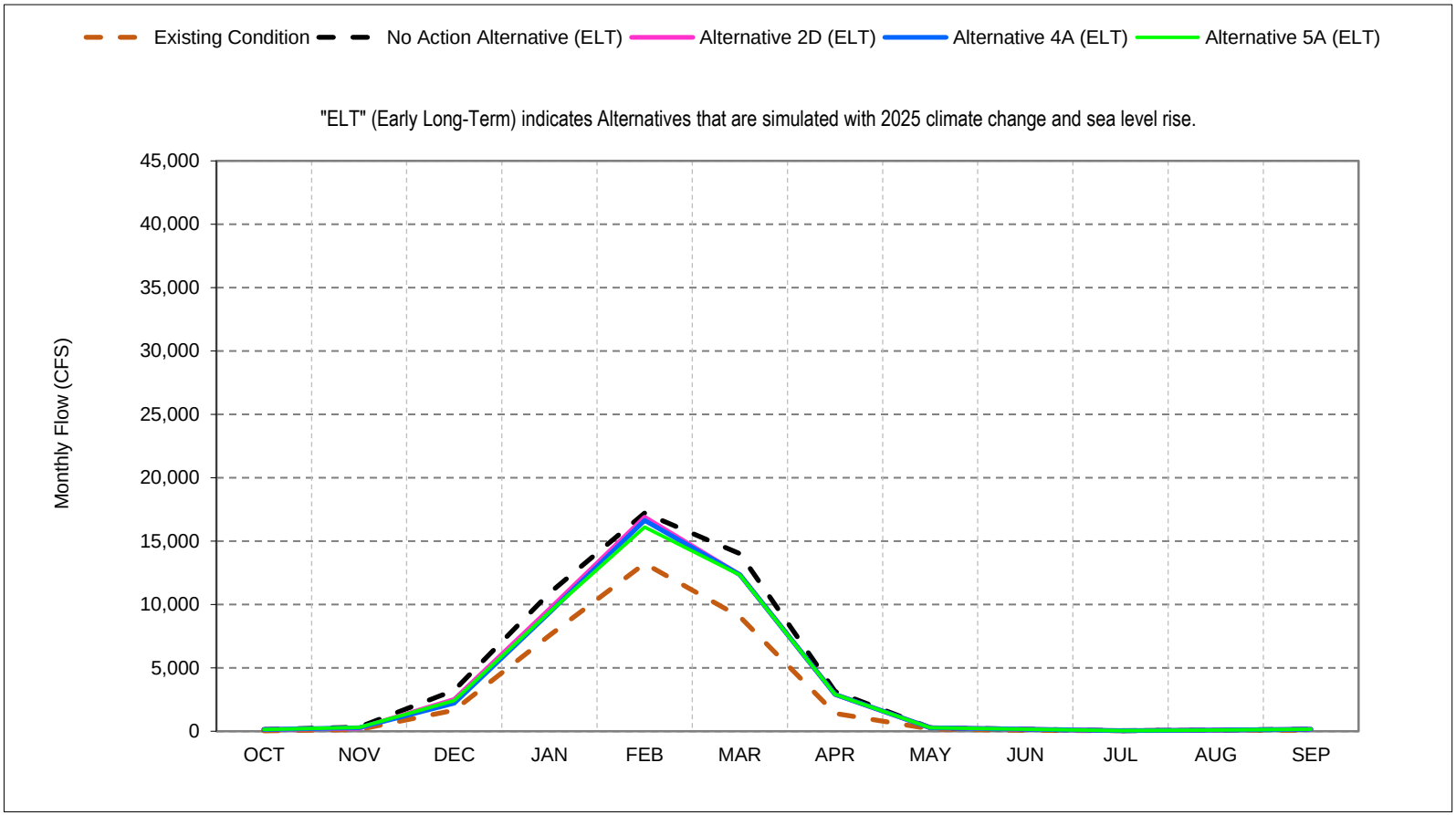


Figure C-61-1. Yolo Bypass, Long-Term Average Flow



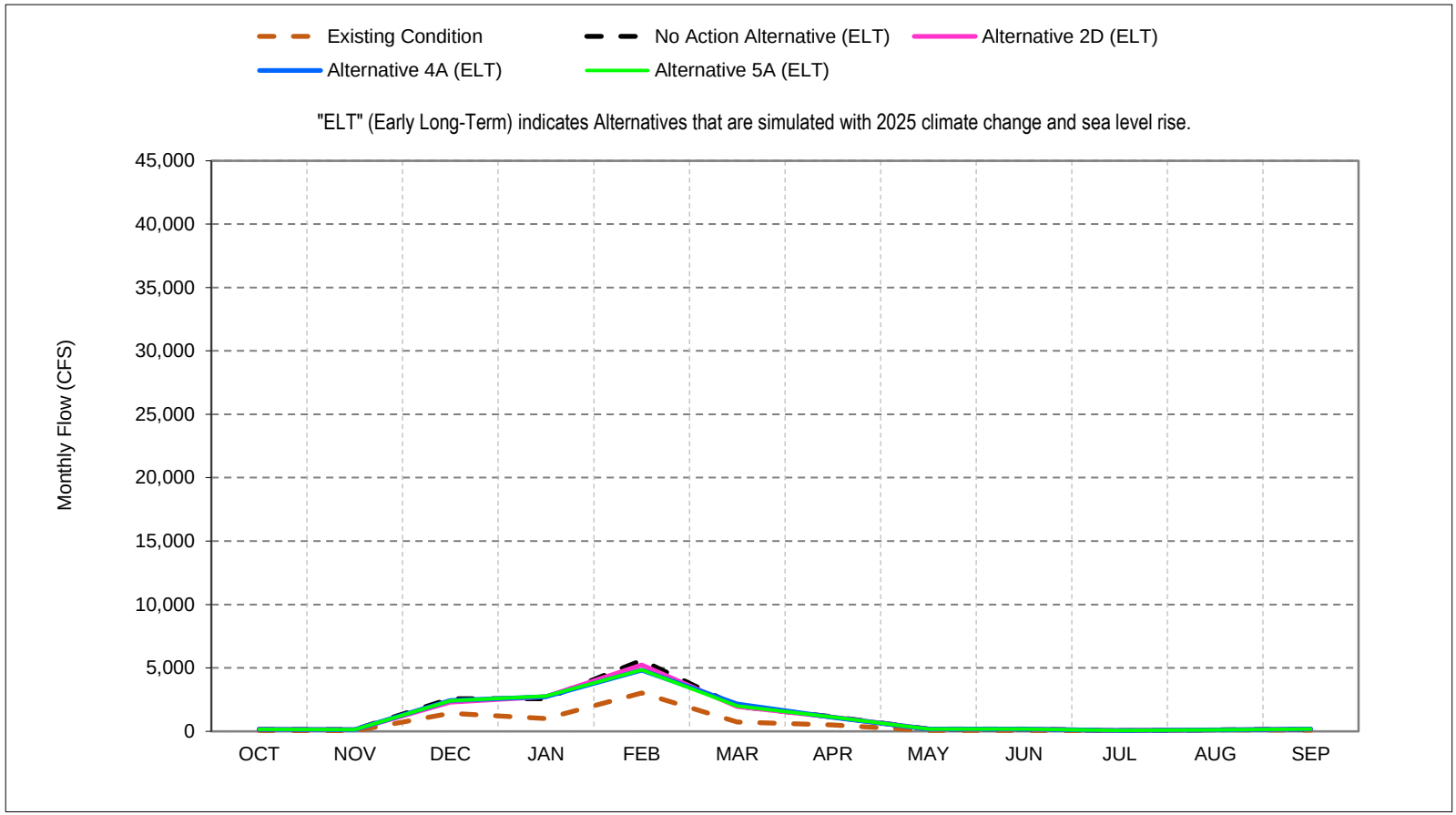
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-61-2. Yolo Bypass, Wet Year* Average Flow



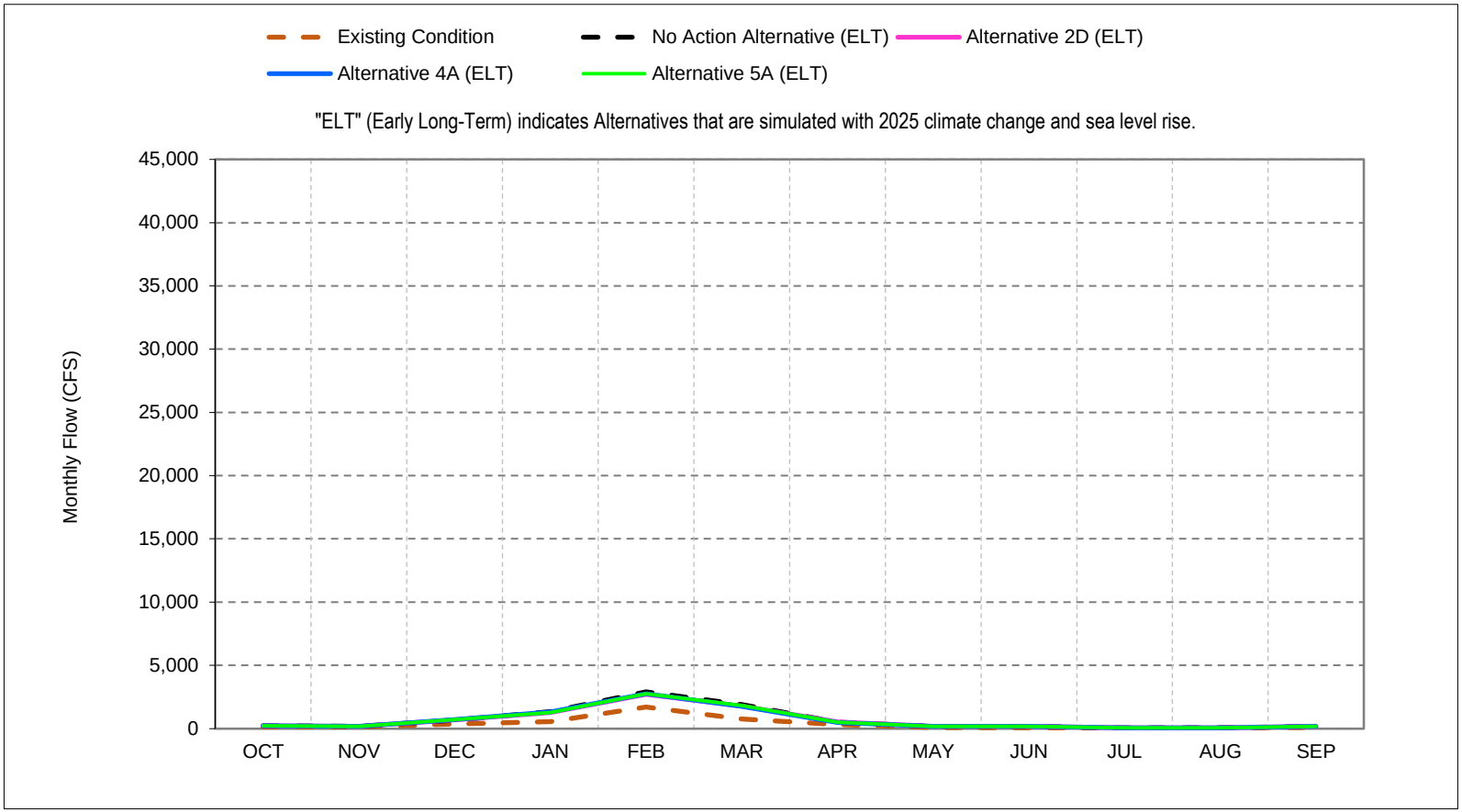
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-61-3. Yolo Bypass, Above Normal Year* Average Flow



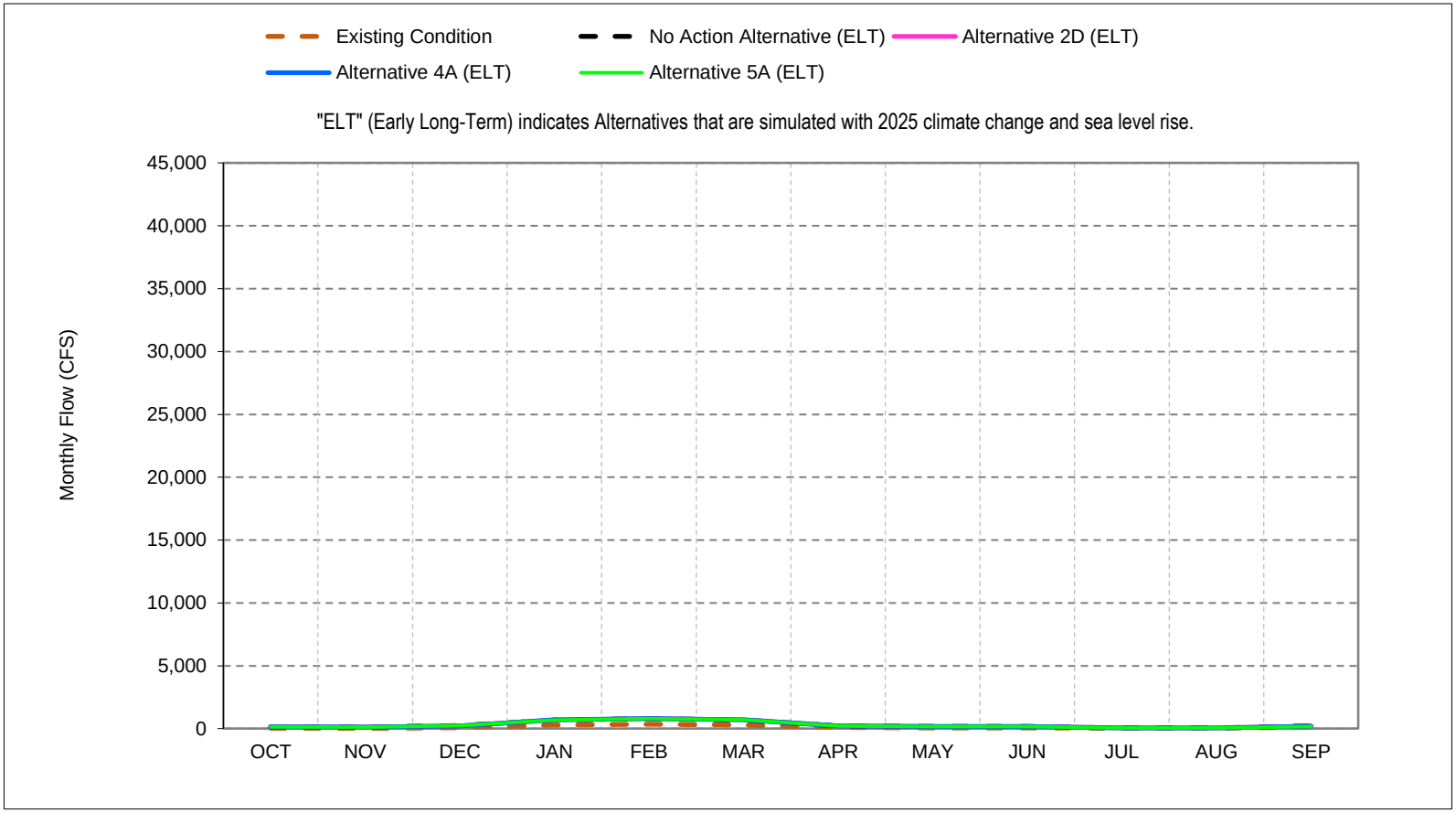
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-61-4. Yolo Bypass, Below Normal Year* Average Flow



*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-61-5. Yolo Bypass, Dry Year* Average Flow



*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-61-6. Yolo Bypass, Critical Year* Average Flow

C.62. San Joaquin River Flow at Vernalis

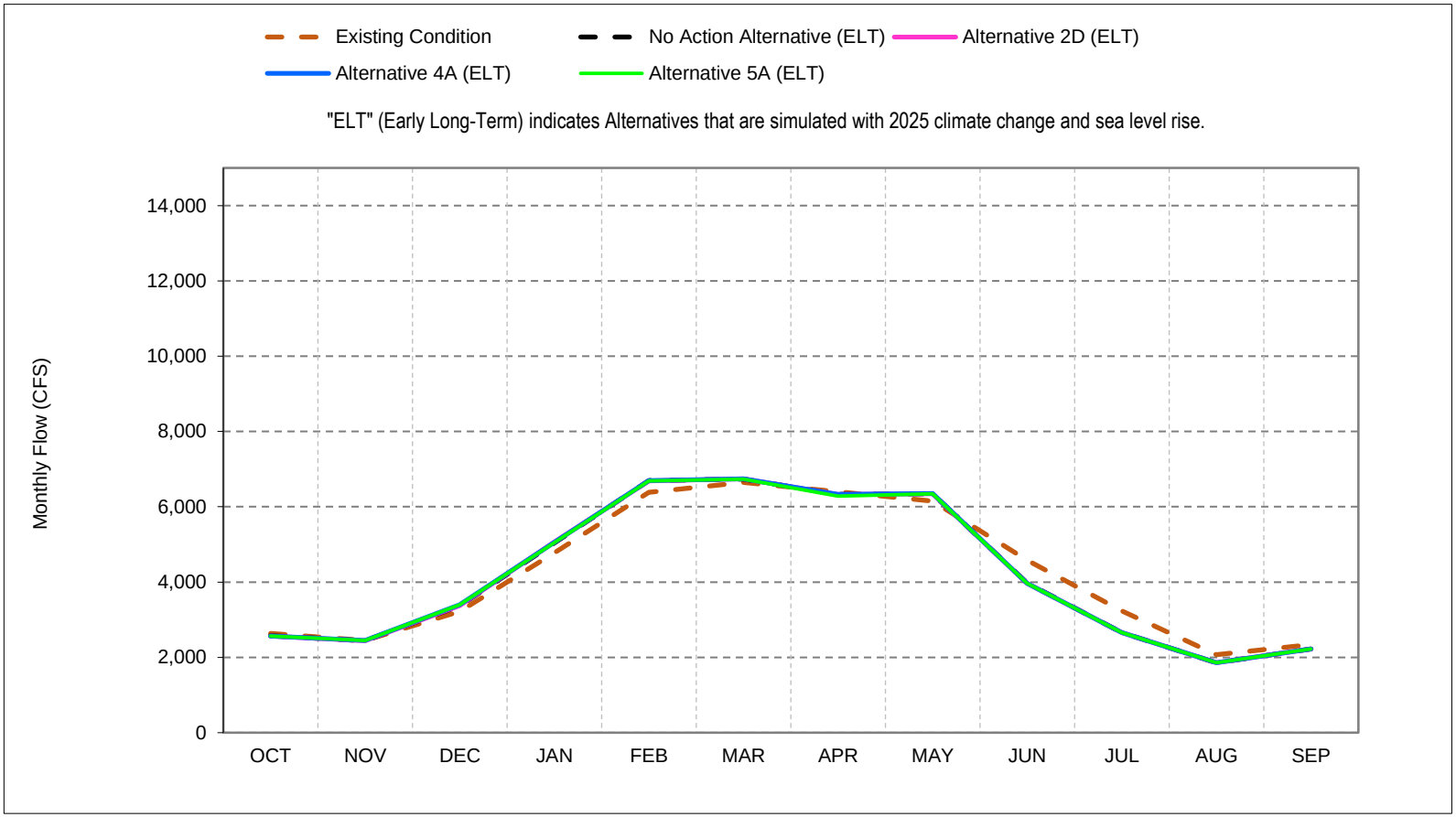
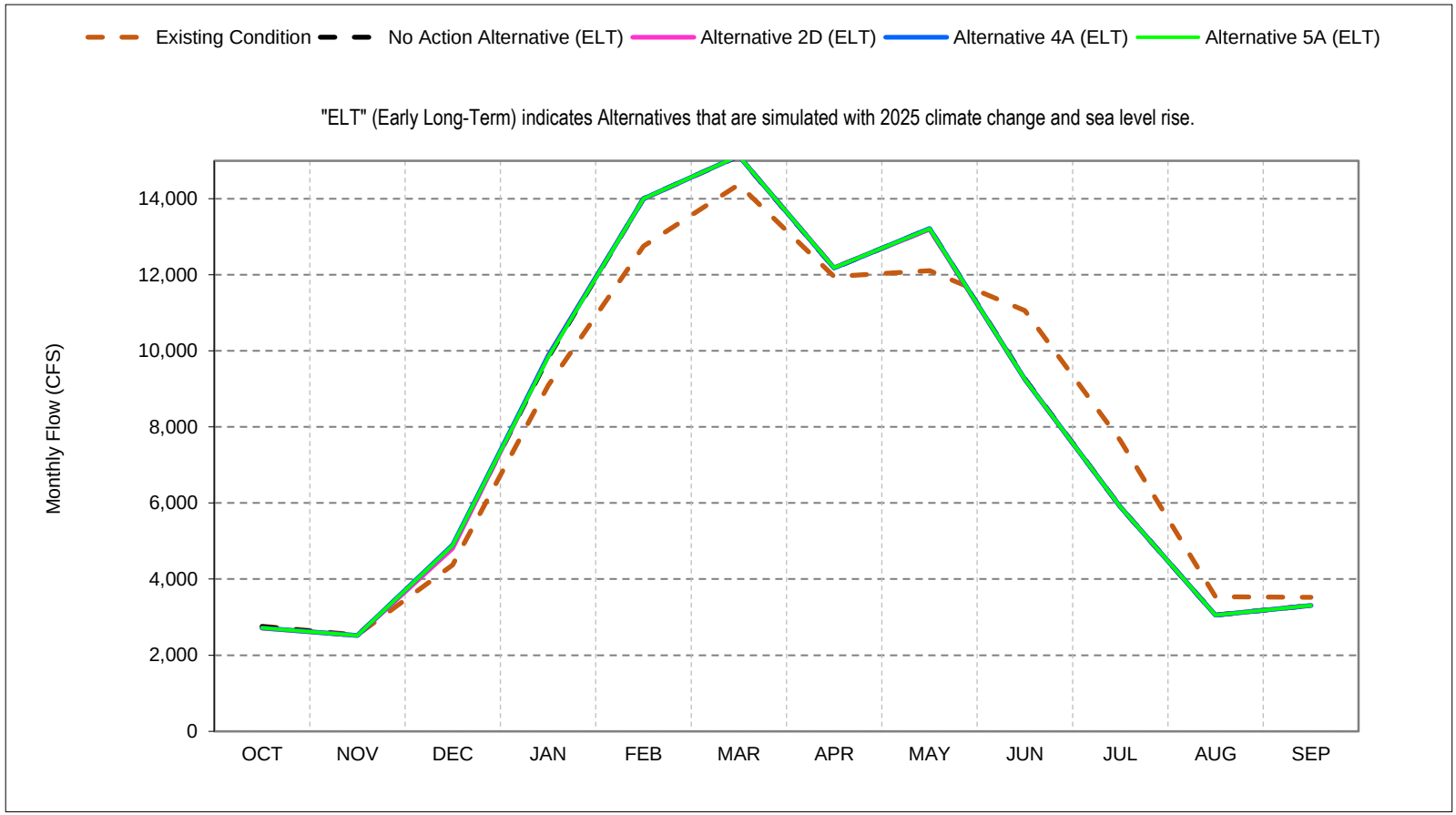
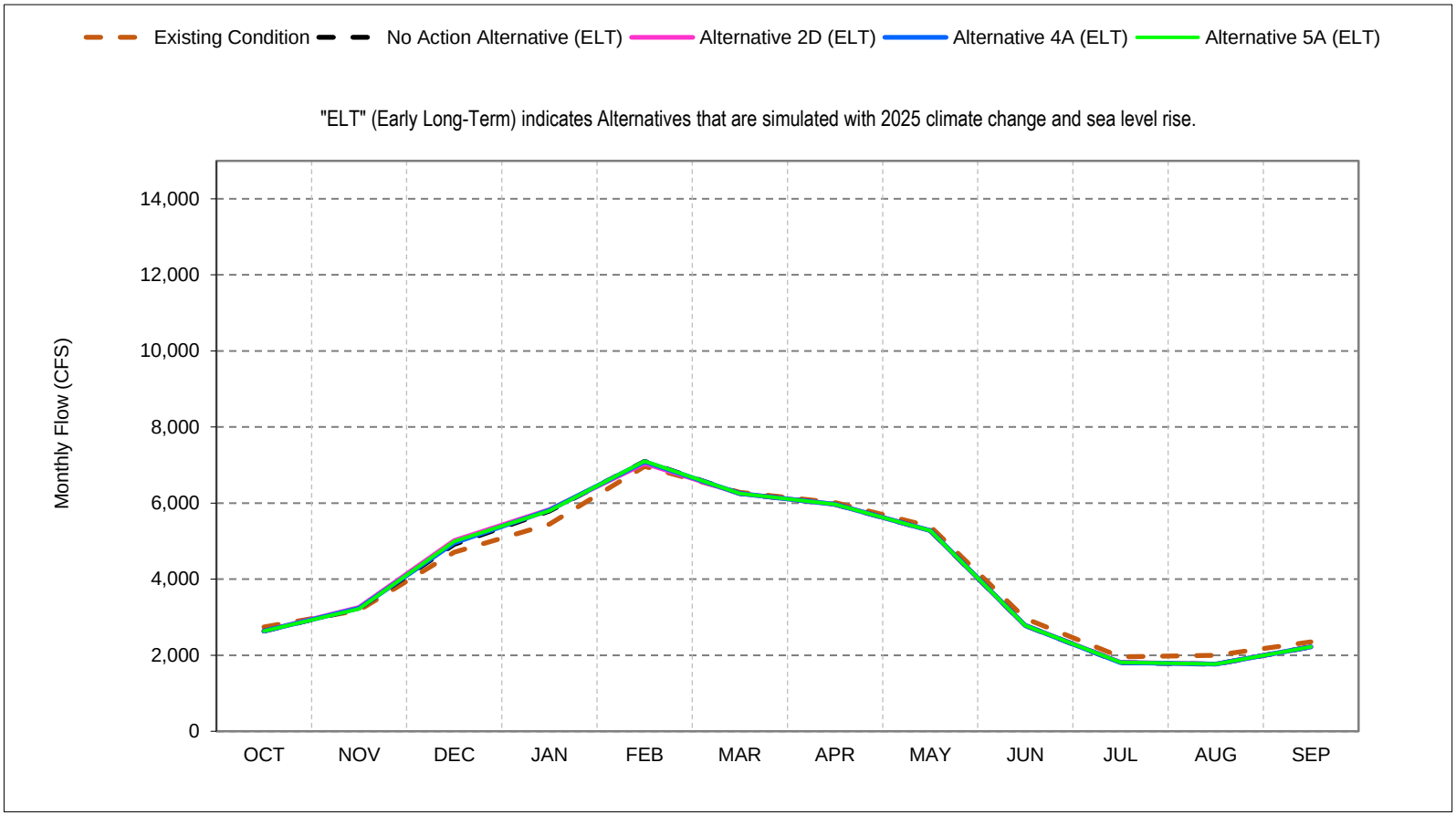


Figure C-62-1. San Joaquin River at Vernalis, Long-Term Average Flow



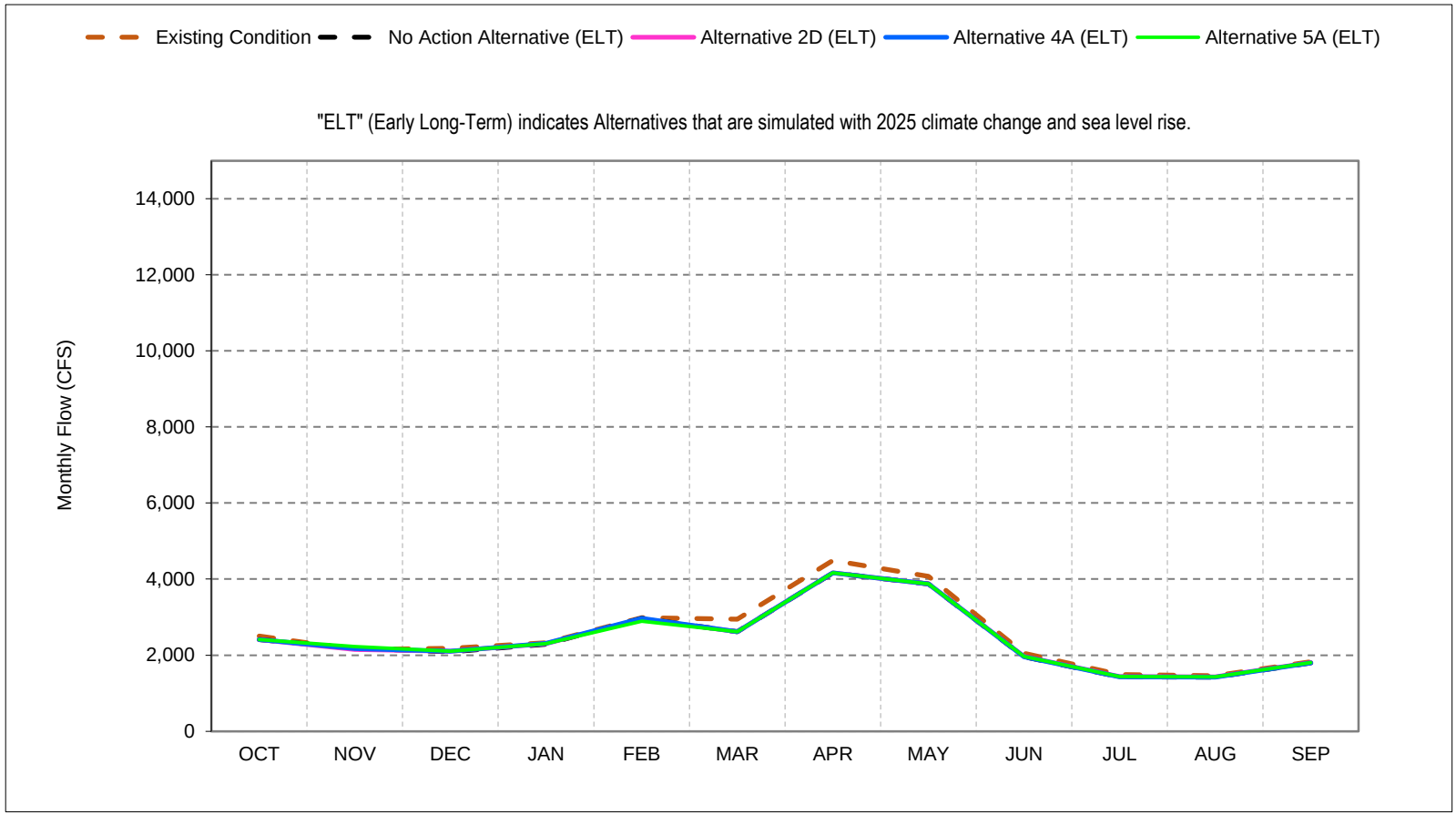
*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-62-2. San Joaquin River at Vernalis, Wet Year* Average Flow



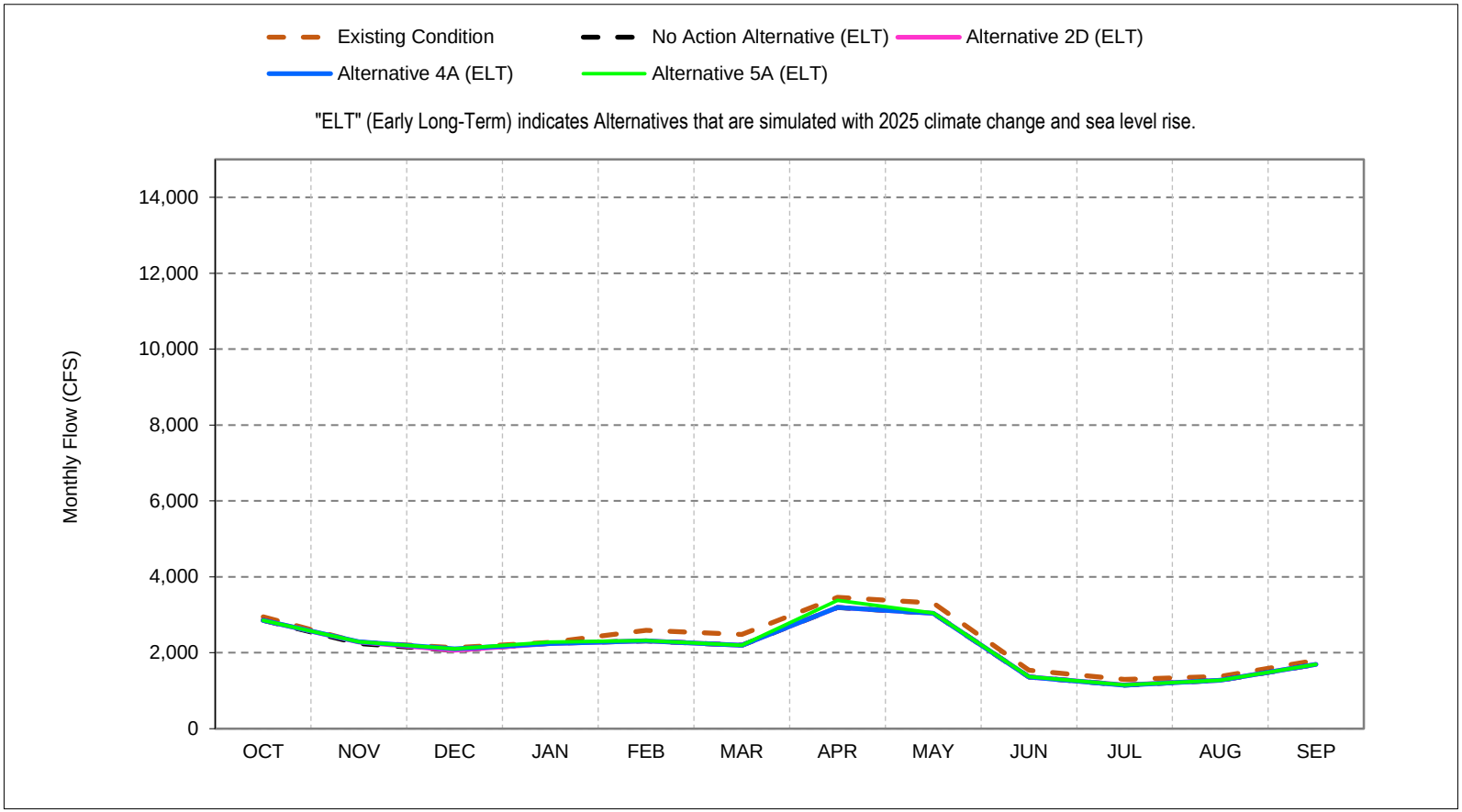
*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-62-3. San Joaquin River at Vernalis, Above Normal Year* Average Flow



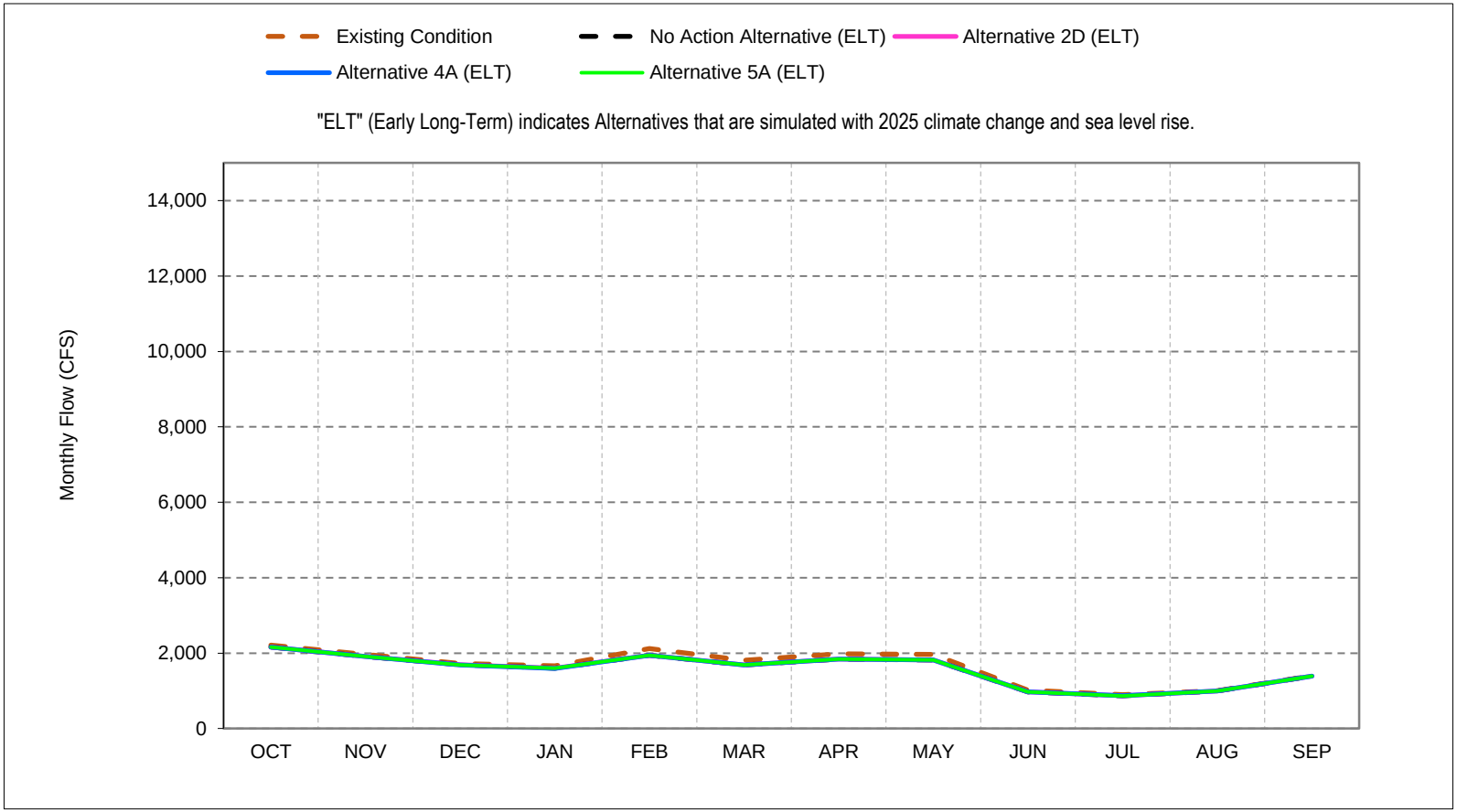
*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-62-4. San Joaquin River at Vernalis, Below Normal Year* Average Flow



*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-62-5. San Joaquin River at Vernalis, Dry Year* Average Flow



*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-62-6. San Joaquin River at Vernalis, Critical Year* Average Flow

Table C-62-1. San Joaquin River at Vernalis, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,596	2,902	4,363	9,686	15,593	14,474	12,960	13,526	11,935	7,289	3,181	3,312
20%	3,175	2,595	2,845	5,116	9,547	9,119	7,803	7,669	7,050	3,664	2,833	2,804
30%	2,975	2,399	2,319	3,273	6,158	7,611	6,570	5,613	3,351	2,124	2,400	2,557
40%	2,807	2,243	2,143	2,481	4,405	5,894	5,677	5,175	2,892	1,847	1,775	2,277
50%	2,546	2,071	2,064	2,396	3,477	3,225	5,220	4,372	2,367	1,641	1,541	1,961
60%	2,314	1,981	1,983	2,200	2,503	2,717	4,194	3,780	1,861	1,439	1,454	1,854
70%	2,196	1,876	1,863	2,071	2,354	2,293	3,429	3,293	1,529	1,287	1,367	1,770
80%	2,049	1,769	1,795	1,803	2,274	2,110	2,608	2,585	1,420	1,184	1,267	1,687
90%	1,644	1,637	1,636	1,625	2,154	1,838	2,043	1,941	1,077	956	1,086	1,489
Long Term												
Full Simulation Period[a]	2,639	2,448	3,219	4,777	6,388	6,648	6,351	6,148	4,583	3,239	2,072	2,338
Water Year Types[b]												
Wet (32%)	2,760	2,534	4,370	9,089	12,750	14,374	11,955	12,109	11,058	7,654	3,539	3,519
Above Normal (15%)	2,745	3,182	4,711	5,447	6,965	6,284	6,014	5,381	2,965	1,958	2,000	2,355
Below Normal (17%)	2,502	2,150	2,182	2,326	2,983	2,949	4,490	4,074	2,051	1,491	1,460	1,829
Dry (22%)	2,945	2,272	2,129	2,270	2,590	2,479	3,656	3,308	1,537	1,295	1,375	1,796
Critical (15%)	2,213	1,968	1,729	1,667	2,120	1,813	1,983	1,964	1,020	898	1,007	1,402

No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,516	2,921	4,682	12,197	17,352	15,857	13,338	14,617	9,120	5,778	2,819	3,206
20%	3,107	2,517	2,771	5,064	9,252	9,199	8,263	8,047	5,720	2,585	2,521	2,658
30%	2,883	2,294	2,308	3,184	6,430	7,803	6,446	5,633	3,081	2,001	1,901	2,457
40%	2,727	2,186	2,114	2,586	4,654	5,418	5,642	5,080	2,786	1,780	1,662	2,095
50%	2,504	2,057	2,030	2,388	3,435	3,120	5,125	4,369	2,271	1,532	1,494	1,912
60%	2,292	1,957	1,945	2,172	2,496	2,556	4,010	3,731	1,784	1,394	1,424	1,822
70%	2,102	1,840	1,868	2,018	2,277	2,280	3,161	3,055	1,441	1,180	1,314	1,722
80%	1,926	1,741	1,727	1,753	2,027	1,874	2,451	2,351	1,214	1,064	1,186	1,590
90%	1,459	1,609	1,567	1,589	1,938	1,658	1,946	1,817	1,070	897	1,087	1,454
Long Term												
Full Simulation Period[a]	2,575	2,442	3,370	5,039	6,698	6,737	6,284	6,347	3,972	2,658	1,858	2,226
Water Year Types[b]												
Wet (32%)	2,748	2,517	4,859	9,830	14,000	15,121	12,177	13,212	9,267	5,903	3,051	3,306
Above Normal (15%)	2,637	3,232	4,917	5,793	7,097	6,252	5,970	5,278	2,782	1,806	1,764	2,221
Below Normal (17%)	2,412	2,180	2,088	2,291	2,966	2,614	4,161	3,871	1,960	1,432	1,423	1,800
Dry (22%)	2,849	2,244	2,062	2,247	2,312	2,191	3,380	3,040	1,361	1,146	1,272	1,691
Critical (15%)	2,162	1,911	1,694	1,603	1,942	1,689	1,844	1,819	975	869	993	1,391

No Action Alternative (ELT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-80	19	318	2,511	1,758	1,383	378	1,091	-2,815	-1,511	-362	-106
20%	-67	-78	-74	-52	-295	80	461	378	-1,330	-1,079	-313	-146
30%	-92	-105	-11	-89	272	192	-124	21	-270	-122	-499	-100
40%	-80	-57	-29	105	249	-476	-34	-95	-106	-67	-113	-182
50%	-42	-14	-33	-8	-42	-104	-94	-4	-95	-109	-47	-50
60%	-21	-25	-39	-29	-6	-161	-185	-49	-77	-44	-29	-32
70%	-94	-36	6	-53	-77	-13	-269	-239	-88	-107	-53	-48
80%	-123	-28	-68	-50	-247	-235	-157	-234	-206	-120	-81	-97
90%	-186	-28	-69	-36	-216	-180	-96	-124	-7	-59	1	-35
Long Term												
Full Simulation Period[a]	-64	-6	151	262	310	89	-67	199	-611	-581	-214	-112
Water Year Types[b]												
Wet (32%)	-12	-17	489	741	1,249	747	222	1,103	-1,790	-1,751	-488	-213
Above Normal (15%)	-107	50	206	346	132	-32	-45	-104	-182	-152	-236	-133
Below Normal (17%)	-90	30	-93	-35	-17	-335	-329	-202	-90	-59	-37	-29
Dry (22%)	-96	-28	-67	-23	-279	-288	-277	-268	-176	-150	-103	-105
Critical (15%)	-50	-57	-35	-64	-178	-124	-139	-146	-45	-30	-15	-11

a Based on the 82-year simulation period

b As defined by the San Joaquin River Basin 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-62-2. San Joaquin River at Vernalis, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,596	2,902	4,363	9,686	15,593	14,474	12,960	13,526	11,935	7,289	3,181	3,312
20%	3,175	2,595	2,845	5,116	9,547	9,119	7,803	7,669	7,050	3,664	2,833	2,804
30%	2,975	2,399	2,319	3,273	6,158	7,611	6,570	5,613	3,351	2,124	2,400	2,557
40%	2,807	2,243	2,143	2,481	4,405	5,894	5,677	5,175	2,892	1,847	1,775	2,277
50%	2,546	2,071	2,064	2,396	3,477	3,225	5,220	4,372	2,367	1,641	1,541	1,961
60%	2,314	1,981	1,983	2,200	2,503	2,717	4,194	3,780	1,861	1,439	1,454	1,854
70%	2,196	1,876	1,863	2,071	2,354	2,293	3,429	3,293	1,529	1,287	1,367	1,770
80%	2,049	1,769	1,795	1,803	2,274	2,110	2,608	2,585	1,420	1,184	1,267	1,687
90%	1,644	1,637	1,636	1,625	2,154	1,838	2,043	1,941	1,077	956	1,086	1,489
Long Term												
Full Simulation Period[a]	2,639	2,448	3,219	4,777	6,388	6,648	6,351	6,148	4,583	3,239	2,072	2,338
Water Year Types[b]												
Wet (32%)	2,760	2,534	4,370	9,089	12,750	14,374	11,955	12,109	11,058	7,654	3,539	3,519
Above Normal (15%)	2,745	3,182	4,711	5,447	6,965	6,284	6,014	5,381	2,965	1,958	2,000	2,355
Below Normal (17%)	2,502	2,150	2,182	2,326	2,983	2,949	4,490	4,074	2,051	1,491	1,460	1,829
Dry (22%)	2,945	2,272	2,129	2,270	2,590	2,479	3,656	3,308	1,537	1,295	1,375	1,796
Critical (15%)	2,213	1,968	1,729	1,667	2,120	1,813	1,983	1,964	1,020	898	1,007	1,402

Alternative 2D (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,516	2,921	4,765	12,198	17,348	15,862	13,560	14,643	9,133	5,778	2,819	3,207
20%	3,108	2,565	2,803	5,142	9,252	9,255	8,314	8,047	5,724	2,580	2,527	2,660
30%	2,884	2,315	2,334	3,519	6,401	7,803	6,446	5,634	3,084	2,000	1,906	2,455
40%	2,729	2,195	2,114	2,584	4,586	5,418	5,642	5,085	2,784	1,789	1,669	2,101
50%	2,504	2,057	2,037	2,382	3,435	3,121	5,125	4,370	2,271	1,544	1,495	1,913
60%	2,294	1,957	1,945	2,177	2,497	2,556	4,010	3,738	1,787	1,395	1,427	1,822
70%	2,102	1,840	1,869	2,027	2,277	2,280	3,160	3,060	1,439	1,197	1,315	1,724
80%	1,925	1,741	1,727	1,754	2,027	1,874	2,451	2,350	1,212	1,064	1,186	1,592
90%	1,459	1,609	1,567	1,589	1,938	1,658	1,947	1,816	1,070	895	1,086	1,454
Long Term												
Full Simulation Period[a]	2,564	2,446	3,376	5,061	6,685	6,739	6,286	6,344	3,969	2,661	1,860	2,227
Water Year Types[b]												
Wet (32%)	2,709	2,516	4,805	9,879	13,998	15,129	12,184	13,199	9,254	5,904	3,052	3,307
Above Normal (15%)	2,638	3,257	5,015	5,826	7,045	6,252	5,970	5,279	2,784	1,811	1,768	2,223
Below Normal (17%)	2,412	2,147	2,100	2,299	2,954	2,614	4,162	3,874	1,965	1,440	1,429	1,803
Dry (22%)	2,850	2,277	2,062	2,243	2,312	2,191	3,379	3,041	1,362	1,146	1,272	1,692
Critical (15%)	2,162	1,911	1,696	1,603	1,942	1,689	1,844	1,819	975	868	993	1,391

Alternative 2D (ELT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-80	19	402	2,512	1,755	1,387	601	1,117	-2,802	-1,511	-362	-105
20%	-67	-30	-42	26	-295	136	512	378	-1,327	-1,084	-306	-144
30%	-91	-85	15	246	243	192	-124	21	-267	-124	-494	-102
40%	-79	-48	-29	103	181	-476	-35	-89	-108	-58	-106	-175
50%	-42	-14	-27	-14	-41	-104	-95	-3	-96	-97	-46	-49
60%	-20	-25	-38	-23	-6	-161	-184	-42	-74	-43	-26	-32
70%	-94	-36	6	-44	-78	-13	-269	-233	-90	-90	-52	-46
80%	-123	-28	-67	-49	-247	-235	-157	-235	-207	-120	-82	-95
90%	-186	-28	-69	-36	-216	-180	-96	-125	-6	-61	-1	-35
Long Term												
Full Simulation Period[a]	-75	-1	156	284	297	92	-65	197	-614	-579	-212	-111
Water Year Types[b]												
Wet (32%)	-50	-18	435	790	1,248	755	229	1,090	-1,804	-1,750	-487	-212
Above Normal (15%)	-107	75	304	379	80	-32	-45	-102	-181	-147	-233	-131
Below Normal (17%)	-90	-3	-82	-27	-29	-335	-329	-200	-86	-51	-30	-26
Dry (22%)	-95	5	-67	-27	-278	-288	-277	-268	-176	-149	-103	-105
Critical (15%)	-50	-57	-33	-64	-178	-124	-140	-146	-46	-30	-15	-11

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the San Joaquin River Basin 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-62-3. San Joaquin River at Vernalis, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,596	2,902	4,363	9,686	15,593	14,474	12,960	13,526	11,935	7,289	3,181	3,312
20%	3,175	2,595	2,845	5,116	9,547	9,119	7,803	7,669	7,050	3,664	2,833	2,804
30%	2,975	2,399	2,319	3,273	6,158	7,611	6,570	5,613	3,351	2,124	2,400	2,557
40%	2,807	2,243	2,143	2,481	4,405	5,894	5,677	5,175	2,892	1,847	1,775	2,277
50%	2,546	2,071	2,064	2,396	3,477	3,225	5,220	4,372	2,367	1,641	1,541	1,961
60%	2,314	1,981	1,983	2,200	2,503	2,717	4,194	3,780	1,861	1,439	1,454	1,854
70%	2,196	1,876	1,863	2,071	2,354	2,293	3,429	3,293	1,529	1,287	1,367	1,770
80%	2,049	1,769	1,795	1,803	2,274	2,110	2,608	2,585	1,420	1,184	1,267	1,687
90%	1,644	1,637	1,636	1,625	2,154	1,838	2,043	1,941	1,077	956	1,086	1,489
Long Term												
Full Simulation Period[a]	2,639	2,448	3,219	4,777	6,388	6,648	6,351	6,148	4,583	3,239	2,072	2,338
Water Year Types[b]												
Wet (32%)	2,760	2,534	4,370	9,089	12,750	14,374	11,955	12,109	11,058	7,654	3,539	3,519
Above Normal (15%)	2,745	3,182	4,711	5,447	6,965	6,284	6,014	5,381	2,965	1,958	2,000	2,355
Below Normal (17%)	2,502	2,150	2,182	2,326	2,983	2,949	4,490	4,074	2,051	1,491	1,460	1,829
Dry (22%)	2,945	2,272	2,129	2,270	2,590	2,479	3,656	3,308	1,537	1,295	1,375	1,796
Critical (15%)	2,213	1,968	1,729	1,667	2,120	1,813	1,983	1,964	1,020	898	1,007	1,402

Alternative 4A (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,516	2,930	4,738	12,197	17,351	15,859	13,535	14,631	9,136	5,770	2,819	3,206
20%	3,107	2,693	2,801	5,064	9,252	9,255	8,309	8,050	5,718	2,573	2,522	2,658
30%	2,883	2,315	2,324	3,410	6,465	7,803	6,445	5,634	3,082	1,999	1,901	2,455
40%	2,727	2,195	2,119	2,571	4,669	5,415	5,642	5,079	2,785	1,783	1,664	2,097
50%	2,504	2,057	2,047	2,385	3,435	3,120	5,124	4,369	2,271	1,531	1,492	1,911
60%	2,293	1,957	1,937	2,198	2,496	2,556	4,010	3,733	1,784	1,387	1,424	1,819
70%	2,102	1,839	1,858	1,998	2,277	2,280	3,161	3,056	1,434	1,182	1,310	1,722
80%	1,926	1,741	1,727	1,753	2,027	1,874	2,451	2,351	1,214	1,066	1,188	1,588
90%	1,459	1,609	1,567	1,575	1,938	1,658	1,947	1,813	1,070	899	1,089	1,454
Long Term												
Full Simulation Period[a]	2,565	2,448	3,396	5,055	6,696	6,740	6,284	6,350	3,967	2,658	1,858	2,226
Water Year Types[b]												
Wet (32%)	2,714	2,515	4,901	9,863	13,999	15,131	12,175	13,223	9,253	5,901	3,050	3,306
Above Normal (15%)	2,637	3,232	4,953	5,814	7,085	6,252	5,969	5,278	2,780	1,806	1,764	2,221
Below Normal (17%)	2,412	2,175	2,100	2,310	2,972	2,614	4,161	3,871	1,961	1,431	1,423	1,800
Dry (22%)	2,849	2,290	2,103	2,243	2,312	2,191	3,379	3,039	1,360	1,145	1,271	1,691
Critical (15%)	2,162	1,911	1,684	1,596	1,942	1,689	1,844	1,819	975	869	993	1,392

Alternative 4A (ELT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-80	27	375	2,511	1,757	1,385	575	1,105	-2,799	-1,519	-362	-106
20%	-68	98	-43	-52	-295	136	507	381	-1,332	-1,091	-311	-146
30%	-92	-84	5	136	307	192	-124	21	-270	-124	-499	-103
40%	-80	-48	-25	90	264	-479	-35	-95	-107	-64	-111	-180
50%	-42	-14	-17	-11	-42	-104	-96	-4	-95	-110	-49	-50
60%	-21	-25	-46	-2	-6	-162	-185	-48	-77	-51	-29	-35
70%	-94	-36	-4	-73	-78	-13	-268	-237	-95	-106	-57	-48
80%	-123	-28	-68	-50	-247	-235	-157	-234	-205	-118	-79	-99
90%	-186	-28	-69	-50	-216	-179	-96	-127	-6	-56	2	-35
Long Term												
Full Simulation Period[a]	-74	0	177	278	308	92	-67	203	-615	-582	-214	-112
Water Year Types[b]												
Wet (32%)	-46	-18	531	774	1,249	756	221	1,114	-1,805	-1,753	-489	-213
Above Normal (15%)	-107	50	242	367	120	-33	-45	-104	-184	-152	-236	-133
Below Normal (17%)	-90	25	-81	-16	-11	-335	-329	-202	-90	-60	-37	-29
Dry (22%)	-96	18	-26	-27	-279	-288	-277	-269	-177	-151	-104	-105
Critical (15%)	-51	-57	-45	-71	-178	-124	-139	-146	-45	-29	-14	-11

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the San Joaquin River Basin 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-62-4. San Joaquin River at Vernalis, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,596	2,902	4,363	9,686	15,593	14,474	12,960	13,526	11,935	7,289	3,181	3,312
20%	3,175	2,595	2,845	5,116	9,547	9,119	7,803	7,669	7,050	3,664	2,833	2,804
30%	2,975	2,399	2,319	3,273	6,158	7,611	6,570	5,613	3,351	2,124	2,400	2,557
40%	2,807	2,243	2,143	2,481	4,405	5,894	5,677	5,175	2,892	1,847	1,775	2,277
50%	2,546	2,071	2,064	2,396	3,477	3,225	5,220	4,372	2,367	1,641	1,541	1,961
60%	2,314	1,981	1,983	2,200	2,503	2,717	4,194	3,780	1,861	1,439	1,454	1,854
70%	2,196	1,876	1,863	2,071	2,354	2,293	3,429	3,293	1,529	1,287	1,367	1,770
80%	2,049	1,769	1,795	1,803	2,274	2,110	2,608	2,585	1,420	1,184	1,267	1,687
90%	1,644	1,637	1,636	1,625	2,154	1,838	2,043	1,941	1,077	956	1,086	1,489
Long Term												
Full Simulation Period[a]	2,639	2,448	3,219	4,777	6,388	6,648	6,351	6,148	4,583	3,239	2,072	2,338
Water Year Types[b]												
Wet (32%)	2,760	2,534	4,370	9,089	12,750	14,374	11,955	12,109	11,058	7,654	3,539	3,519
Above Normal (15%)	2,745	3,182	4,711	5,447	6,965	6,284	6,014	5,381	2,965	1,958	2,000	2,355
Below Normal (17%)	2,502	2,150	2,182	2,326	2,983	2,949	4,490	4,074	2,051	1,491	1,460	1,829
Dry (22%)	2,945	2,272	2,129	2,270	2,590	2,479	3,656	3,308	1,537	1,295	1,375	1,796
Critical (15%)	2,213	1,968	1,729	1,667	2,120	1,813	1,983	1,964	1,020	898	1,007	1,402

Alternative 5A (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,516	2,923	4,738	12,197	17,351	15,854	13,525	14,592	9,120	5,774	2,819	3,207
20%	3,107	2,694	2,824	5,067	9,252	9,184	8,304	8,048	5,725	2,590	2,530	2,659
30%	2,885	2,315	2,334	3,163	6,428	7,804	6,446	5,634	3,083	1,999	1,907	2,456
40%	2,729	2,195	2,119	2,586	4,657	5,418	5,642	5,087	2,784	1,785	1,670	2,099
50%	2,504	2,057	2,047	2,414	3,435	3,120	5,127	4,369	2,271	1,546	1,497	1,913
60%	2,294	1,957	1,938	2,176	2,497	2,557	4,011	3,738	1,788	1,402	1,428	1,823
70%	2,102	1,840	1,858	2,023	2,277	2,280	3,160	3,060	1,442	1,196	1,320	1,725
80%	1,925	1,741	1,727	1,754	2,027	1,874	2,451	2,351	1,213	1,068	1,188	1,592
90%	1,459	1,609	1,567	1,589	1,938	1,658	1,948	1,818	1,070	898	1,087	1,454
Long Term												
Full Simulation Period[a]	2,566	2,452	3,397	5,049	6,689	6,738	6,287	6,349	3,970	2,661	1,861	2,227
Water Year Types[b]												
Wet (32%)	2,715	2,516	4,881	9,836	14,000	15,126	12,187	13,214	9,254	5,904	3,052	3,307
Above Normal (15%)	2,638	3,216	4,991	5,795	7,103	6,252	5,970	5,279	2,783	1,810	1,767	2,223
Below Normal (17%)	2,412	2,224	2,100	2,305	2,893	2,614	4,162	3,874	1,964	1,439	1,429	1,802
Dry (22%)	2,850	2,290	2,103	2,278	2,320	2,191	3,380	3,042	1,364	1,149	1,274	1,693
Critical (15%)	2,163	1,911	1,684	1,602	1,943	1,689	1,845	1,820	976	868	994	1,392

Alternative 5A (ELT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-80	20	375	2,511	1,758	1,380	566	1,067	-2,815	-1,515	-362	-105
20%	-68	99	-21	-49	-295	65	501	379	-1,325	-1,075	-303	-145
30%	-90	-84	15	-111	270	193	-123	21	-268	-124	-493	-101
40%	-79	-48	-25	105	252	-476	-34	-88	-108	-63	-105	-178
50%	-42	-14	-17	17	-41	-104	-93	-4	-96	-95	-44	-49
60%	-20	-25	-46	-24	-6	-161	-183	-42	-73	-37	-26	-31
70%	-94	-36	-4	-48	-77	-13	-269	-233	-87	-92	-47	-45
80%	-123	-28	-67	-49	-247	-235	-157	-234	-207	-116	-79	-95
90%	-185	-28	-69	-36	-216	-180	-95	-123	-6	-58	1	-35
Long Term												
Full Simulation Period[a]	-73	5	178	272	301	91	-63	201	-613	-578	-211	-110
Water Year Types[b]												
Wet (32%)	-44	-18	511	747	1,250	751	232	1,105	-1,804	-1,750	-487	-212
Above Normal (15%)	-107	34	279	348	138	-32	-44	-102	-181	-147	-233	-132
Below Normal (17%)	-90	73	-82	-21	-90	-335	-328	-199	-86	-52	-31	-27
Dry (22%)	-95	18	-26	8	-270	-288	-276	-266	-174	-146	-101	-104
Critical (15%)	-50	-57	-45	-65	-177	-124	-139	-145	-44	-30	-14	-11

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the San Joaquin River Basin 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-62-5. San Joaquin River at Vernalis, Monthly Flow

No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,516	2,921	4,682	12,197	17,352	15,857	13,338	14,617	9,120	5,778	2,819	3,206
20%	3,107	2,517	2,771	5,064	9,252	9,199	8,263	8,047	5,720	2,585	2,521	2,658
30%	2,883	2,294	2,308	3,184	6,430	7,803	6,446	5,633	3,081	2,001	1,901	2,457
40%	2,727	2,186	2,114	2,586	4,654	5,418	5,642	5,080	2,786	1,780	1,662	2,095
50%	2,504	2,057	2,030	2,388	3,435	3,120	5,125	4,369	2,271	1,532	1,494	1,912
60%	2,292	1,957	1,945	2,172	2,496	2,556	4,010	3,731	1,784	1,394	1,424	1,822
70%	2,102	1,840	1,868	2,018	2,277	2,280	3,161	3,055	1,441	1,180	1,314	1,722
80%	1,926	1,741	1,727	1,753	2,027	1,874	2,451	2,351	1,214	1,064	1,186	1,590
90%	1,459	1,609	1,567	1,589	1,938	1,658	1,946	1,817	1,070	897	1,087	1,454
Long Term												
Full Simulation Period[a]	2,575	2,442	3,370	5,039	6,698	6,737	6,284	6,347	3,972	2,658	1,858	2,226
Water Year Types[b]												
Wet (32%)	2,748	2,517	4,859	9,830	14,000	15,121	12,177	13,212	9,267	5,903	3,051	3,306
Above Normal (15%)	2,637	3,232	4,917	5,793	7,097	6,252	5,970	5,278	2,782	1,806	1,764	2,221
Below Normal (17%)	2,412	2,180	2,088	2,291	2,966	2,614	4,161	3,871	1,960	1,432	1,423	1,800
Dry (22%)	2,849	2,244	2,062	2,247	2,312	2,191	3,380	3,040	1,361	1,146	1,272	1,691
Critical (15%)	2,162	1,911	1,694	1,603	1,942	1,689	1,844	1,819	975	869	993	1,391

Alternative 2D (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,516	2,921	4,765	12,198	17,348	15,862	13,560	14,643	9,133	5,778	2,819	3,207
20%	3,108	2,565	2,803	5,142	9,252	9,255	8,314	8,047	5,724	2,580	2,527	2,660
30%	2,884	2,315	2,334	3,519	6,401	7,803	6,446	5,634	3,084	2,000	1,906	2,455
40%	2,729	2,195	2,114	2,584	4,586	5,418	5,642	5,085	2,784	1,789	1,669	2,101
50%	2,504	2,057	2,037	2,382	3,435	3,121	5,125	4,370	2,271	1,544	1,495	1,913
60%	2,294	1,957	1,945	2,177	2,497	2,556	4,010	3,738	1,787	1,395	1,427	1,822
70%	2,102	1,840	1,869	2,027	2,277	2,280	3,160	3,060	1,439	1,197	1,315	1,724
80%	1,925	1,741	1,727	1,754	2,027	1,874	2,451	2,350	1,212	1,064	1,186	1,592
90%	1,459	1,609	1,567	1,589	1,938	1,658	1,947	1,816	1,070	895	1,086	1,454
Long Term												
Full Simulation Period[a]	2,564	2,446	3,376	5,061	6,685	6,739	6,286	6,344	3,969	2,661	1,860	2,227
Water Year Types[b]												
Wet (32%)	2,709	2,516	4,805	9,879	13,998	15,129	12,184	13,199	9,254	5,904	3,052	3,307
Above Normal (15%)	2,638	3,257	5,015	5,826	7,045	6,252	5,970	5,279	2,784	1,811	1,768	2,223
Below Normal (17%)	2,412	2,147	2,100	2,299	2,954	2,614	4,162	3,874	1,965	1,440	1,429	1,803
Dry (22%)	2,850	2,277	2,062	2,243	2,312	2,191	3,379	3,041	1,362	1,146	1,272	1,692
Critical (15%)	2,162	1,911	1,696	1,603	1,942	1,689	1,844	1,819	975	868	993	1,391

Alternative 2D (ELT) minus No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	84	1	-3	4	223	26	12	0	0	1
20%	0	48	32	79	0	56	51	0	4	-5	7	1
30%	1	20	27	335	-29	-1	0	0	3	-2	5	-2
40%	2	9	0	-2	-68	0	0	6	-2	9	7	7
50%	0	0	7	-6	0	0	0	1	0	12	1	1
60%	2	0	1	6	1	0	1	6	4	1	3	0
70%	0	0	0	9	0	0	-1	5	-2	17	1	2
80%	0	0	0	1	0	0	0	-1	-1	0	0	3
90%	0	0	0	0	0	0	1	-1	0	-2	-2	0
Long Term												
Full Simulation Period[a]	-11	5	6	22	-13	2	2	-3	-3	3	2	1
Water Year Types[b]												
Wet (32%)	-38	-1	-54	49	-1	8	7	-12	-13	1	1	0
Above Normal (15%)	0	25	98	34	-53	0	0	1	2	5	4	2
Below Normal (17%)	1	-33	12	8	-12	0	0	3	5	8	6	3
Dry (22%)	1	33	0	-4	0	0	0	1	1	1	1	0
Critical (15%)	0	0	2	0	-1	0	0	0	0	0	0	0

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the San Joaquin River Basin 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-62-6. San Joaquin River at Vernalis, Monthly Flow

No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,516	2,921	4,682	12,197	17,352	15,857	13,338	14,617	9,120	5,778	2,819	3,206
20%	3,107	2,517	2,771	5,064	9,252	9,199	8,263	8,047	5,720	2,585	2,521	2,658
30%	2,883	2,294	2,308	3,184	6,430	7,803	6,446	5,633	3,081	2,001	1,901	2,457
40%	2,727	2,186	2,114	2,586	4,654	5,418	5,642	5,080	2,786	1,780	1,662	2,095
50%	2,504	2,057	2,030	2,388	3,435	3,120	5,125	4,369	2,271	1,532	1,494	1,912
60%	2,292	1,957	1,945	2,172	2,496	2,556	4,010	3,731	1,784	1,394	1,424	1,822
70%	2,102	1,840	1,868	2,018	2,277	2,280	3,161	3,055	1,441	1,180	1,314	1,722
80%	1,926	1,741	1,727	1,753	2,027	1,874	2,451	2,351	1,214	1,064	1,186	1,590
90%	1,459	1,609	1,567	1,589	1,938	1,658	1,946	1,817	1,070	897	1,087	1,454
Long Term												
Full Simulation Period[a]	2,575	2,442	3,370	5,039	6,698	6,737	6,284	6,347	3,972	2,658	1,858	2,226
Water Year Types[b]												
Wet (32%)	2,748	2,517	4,859	9,830	14,000	15,121	12,177	13,212	9,267	5,903	3,051	3,306
Above Normal (15%)	2,637	3,232	4,917	5,793	7,097	6,252	5,970	5,278	2,782	1,806	1,764	2,221
Below Normal (17%)	2,412	2,180	2,088	2,291	2,966	2,614	4,161	3,871	1,960	1,432	1,423	1,800
Dry (22%)	2,849	2,244	2,062	2,247	2,312	2,191	3,380	3,040	1,361	1,146	1,272	1,691
Critical (15%)	2,162	1,911	1,694	1,603	1,942	1,689	1,844	1,819	975	869	993	1,391

Alternative 4A (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,516	2,930	4,738	12,197	17,351	15,859	13,535	14,631	9,136	5,770	2,819	3,206
20%	3,107	2,693	2,801	5,064	9,252	9,255	8,309	8,050	5,718	2,573	2,522	2,658
30%	2,883	2,315	2,324	3,410	6,465	7,803	6,445	5,634	3,082	1,999	1,901	2,455
40%	2,727	2,195	2,119	2,571	4,669	5,415	5,642	5,079	2,785	1,783	1,664	2,097
50%	2,504	2,057	2,047	2,385	3,435	3,120	5,124	4,369	2,271	1,531	1,492	1,911
60%	2,293	1,957	1,937	2,198	2,496	2,556	4,010	3,733	1,784	1,387	1,424	1,819
70%	2,102	1,839	1,858	1,998	2,277	2,280	3,161	3,056	1,434	1,182	1,310	1,722
80%	1,926	1,741	1,727	1,753	2,027	1,874	2,451	2,351	1,214	1,066	1,188	1,588
90%	1,459	1,609	1,567	1,575	1,938	1,658	1,947	1,813	1,070	899	1,089	1,454
Long Term												
Full Simulation Period[a]	2,565	2,448	3,396	5,055	6,696	6,740	6,284	6,350	3,967	2,658	1,858	2,226
Water Year Types[b]												
Wet (32%)	2,714	2,515	4,901	9,863	13,999	15,131	12,175	13,223	9,253	5,901	3,050	3,306
Above Normal (15%)	2,637	3,232	4,953	5,814	7,085	6,252	5,969	5,278	2,780	1,806	1,764	2,221
Below Normal (17%)	2,412	2,175	2,100	2,310	2,972	2,614	4,161	3,871	1,961	1,431	1,423	1,800
Dry (22%)	2,849	2,290	2,103	2,243	2,312	2,191	3,379	3,039	1,360	1,145	1,271	1,691
Critical (15%)	2,162	1,911	1,684	1,596	1,942	1,689	1,844	1,819	975	869	993	1,392

Alternative 4A (ELT) minus No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	9	57	0	-1	2	197	14	16	-8	0	0
20%	-1	176	30	0	0	56	46	3	-2	-13	2	0
30%	0	21	16	226	36	-1	-1	0	0	-2	0	-2
40%	0	9	4	-15	15	-3	0	-1	-1	3	2	2
50%	0	0	17	-3	-1	0	-1	0	0	-1	-2	0
60%	0	0	-7	26	0	0	0	1	1	-7	0	-3
70%	0	0	-10	-19	0	0	0	2	-6	2	-4	0
80%	0	0	0	0	0	0	0	0	0	1	2	-1
90%	0	0	0	-14	0	0	1	-4	0	2	1	0
Long Term												
Full Simulation Period[a]	-10	6	26	15	-2	3	0	3	-5	-1	0	0
Water Year Types[b]												
Wet (32%)	-34	-1	42	33	-1	9	-2	11	-15	-2	-1	-1
Above Normal (15%)	0	0	36	22	-12	0	0	0	-2	0	0	0
Below Normal (17%)	0	-5	12	19	6	0	0	0	1	0	0	0
Dry (22%)	0	46	41	-3	0	0	0	-1	-1	-1	-1	0
Critical (15%)	0	0	-10	-6	0	0	0	0	0	0	0	0

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the San Joaquin River Basin 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-62-7. San Joaquin River at Vernalis, Monthly Flow

No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,516	2,921	4,682	12,197	17,352	15,857	13,338	14,617	9,120	5,778	2,819	3,206
20%	3,107	2,517	2,771	5,064	9,252	9,199	8,263	8,047	5,720	2,585	2,521	2,658
30%	2,883	2,294	2,308	3,184	6,430	7,803	6,446	5,633	3,081	2,001	1,901	2,457
40%	2,727	2,186	2,114	2,586	4,654	5,418	5,642	5,080	2,786	1,780	1,662	2,095
50%	2,504	2,057	2,030	2,388	3,435	3,120	5,125	4,369	2,271	1,532	1,494	1,912
60%	2,292	1,957	1,945	2,172	2,496	2,556	4,010	3,731	1,784	1,394	1,424	1,822
70%	2,102	1,840	1,868	2,018	2,277	2,280	3,161	3,055	1,441	1,180	1,314	1,722
80%	1,926	1,741	1,727	1,753	2,027	1,874	2,451	2,351	1,214	1,064	1,186	1,590
90%	1,459	1,609	1,567	1,589	1,938	1,658	1,946	1,817	1,070	897	1,087	1,454
Long Term												
Full Simulation Period[a]	2,575	2,442	3,370	5,039	6,698	6,737	6,284	6,347	3,972	2,658	1,858	2,226
Water Year Types[b]												
Wet (32%)	2,748	2,517	4,859	9,830	14,000	15,121	12,177	13,212	9,267	5,903	3,051	3,306
Above Normal (15%)	2,637	3,232	4,917	5,793	7,097	6,252	5,970	5,278	2,782	1,806	1,764	2,221
Below Normal (17%)	2,412	2,180	2,088	2,291	2,966	2,614	4,161	3,871	1,960	1,432	1,423	1,800
Dry (22%)	2,849	2,244	2,062	2,247	2,312	2,191	3,380	3,040	1,361	1,146	1,272	1,691
Critical (15%)	2,162	1,911	1,694	1,603	1,942	1,689	1,844	1,819	975	869	993	1,391

Alternative 5A (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,516	2,923	4,738	12,197	17,351	15,854	13,525	14,592	9,120	5,774	2,819	3,207
20%	3,107	2,694	2,824	5,067	9,252	9,184	8,304	8,048	5,725	2,590	2,530	2,659
30%	2,885	2,315	2,334	3,163	6,428	7,804	6,446	5,634	3,083	1,999	1,907	2,456
40%	2,729	2,195	2,119	2,586	4,657	5,418	5,642	5,087	2,784	1,785	1,670	2,099
50%	2,504	2,057	2,047	2,414	3,435	3,120	5,127	4,369	2,271	1,546	1,497	1,913
60%	2,294	1,957	1,938	2,176	2,497	2,557	4,011	3,738	1,788	1,402	1,428	1,823
70%	2,102	1,840	1,858	2,023	2,277	2,280	3,160	3,060	1,442	1,196	1,320	1,725
80%	1,925	1,741	1,727	1,754	2,027	1,874	2,451	2,351	1,213	1,068	1,188	1,592
90%	1,459	1,609	1,567	1,589	1,938	1,658	1,948	1,818	1,070	898	1,087	1,454
Long Term												
Full Simulation Period[a]	2,566	2,452	3,397	5,049	6,689	6,738	6,287	6,349	3,970	2,661	1,861	2,227
Water Year Types[b]												
Wet (32%)	2,715	2,516	4,881	9,836	14,000	15,126	12,187	13,214	9,254	5,904	3,052	3,307
Above Normal (15%)	2,638	3,216	4,991	5,795	7,103	6,252	5,970	5,279	2,783	1,810	1,767	2,223
Below Normal (17%)	2,412	2,224	2,100	2,305	2,893	2,614	4,162	3,874	1,964	1,439	1,429	1,802
Dry (22%)	2,850	2,290	2,103	2,278	2,320	2,191	3,380	3,042	1,364	1,149	1,274	1,693
Critical (15%)	2,163	1,911	1,684	1,602	1,943	1,689	1,845	1,820	976	868	994	1,392

Alternative 5A (ELT) minus No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	2	57	0	0	-3	188	-25	0	-4	0	1
20%	0	176	53	3	0	-15	41	1	5	4	9	1
30%	2	21	27	-21	-1	0	0	0	2	-2	6	-1
40%	2	9	5	-1	3	0	0	7	-2	4	8	4
50%	0	0	17	25	0	0	1	0	0	14	3	1
60%	2	0	-7	4	1	1	1	7	4	7	4	2
70%	0	0	-10	5	0	0	0	5	1	15	5	3
80%	0	0	0	1	0	0	0	0	-1	4	2	2
90%	0	0	0	0	0	0	2	1	0	1	0	0
Long Term												
Full Simulation Period[a]	-9	11	27	9	-9	1	4	2	-2	3	2	1
Water Year Types[b]												
Wet (32%)	-33	-1	22	6	0	5	10	2	-14	1	1	0
Above Normal (15%)	0	-16	73	2	6	0	1	1	1	5	3	2
Below Normal (17%)	1	44	12	14	-73	0	1	3	4	7	5	3
Dry (22%)	1	45	41	31	8	0	1	2	3	4	3	1
Critical (15%)	0	0	-10	0	0	0	1	1	2	-1	1	0

Note: "ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the San Joaquin River Basin 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

C.63. Sacramento River Flow at Rio Vista

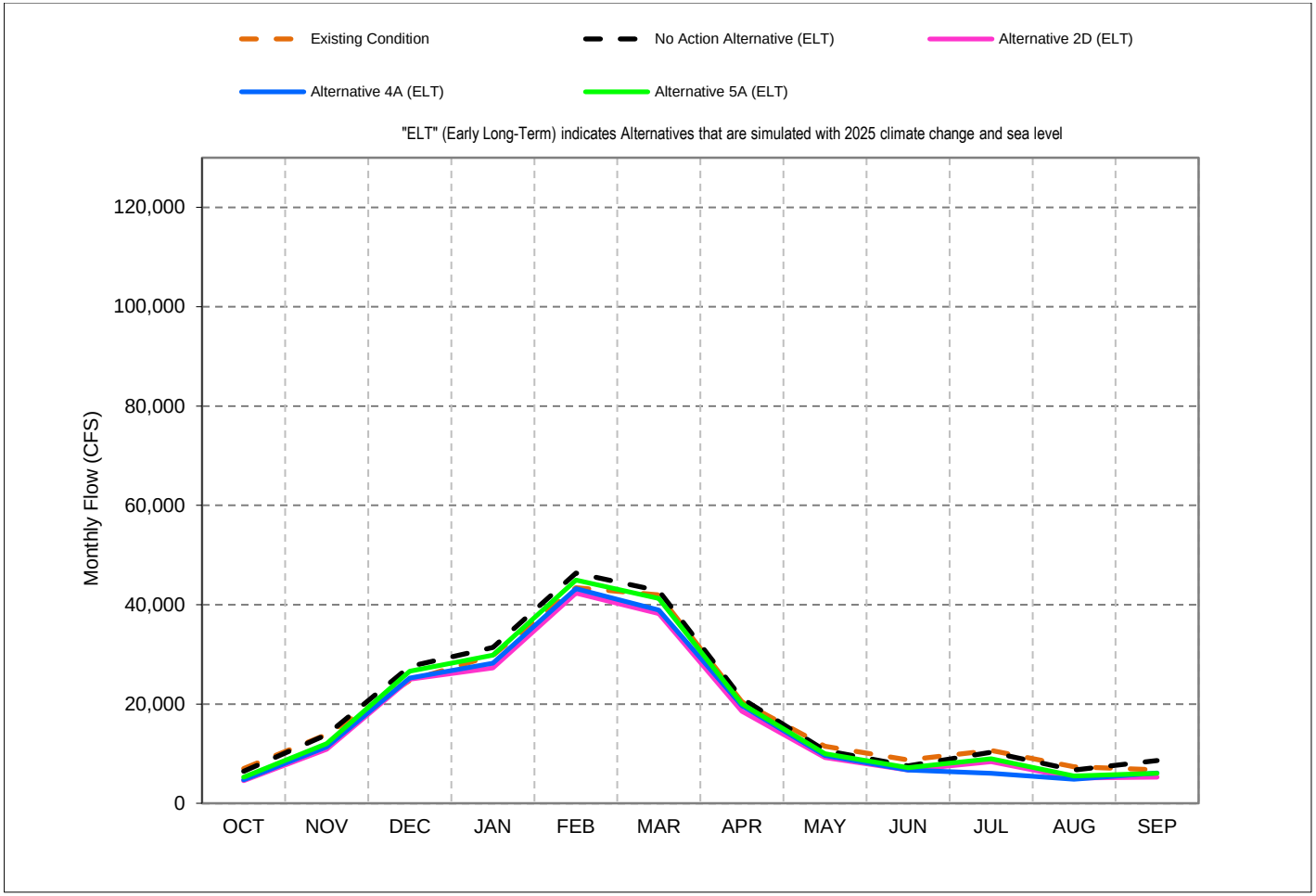
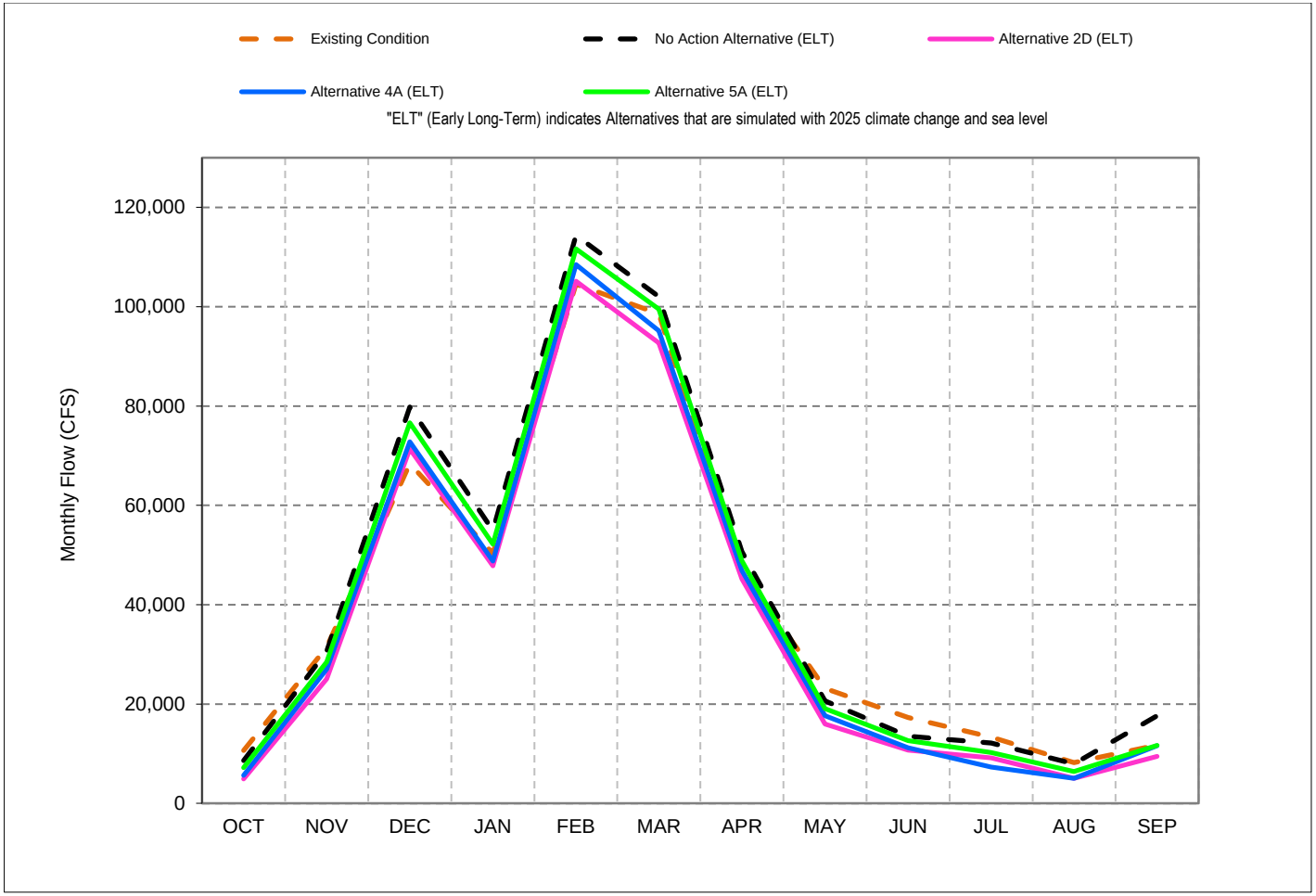
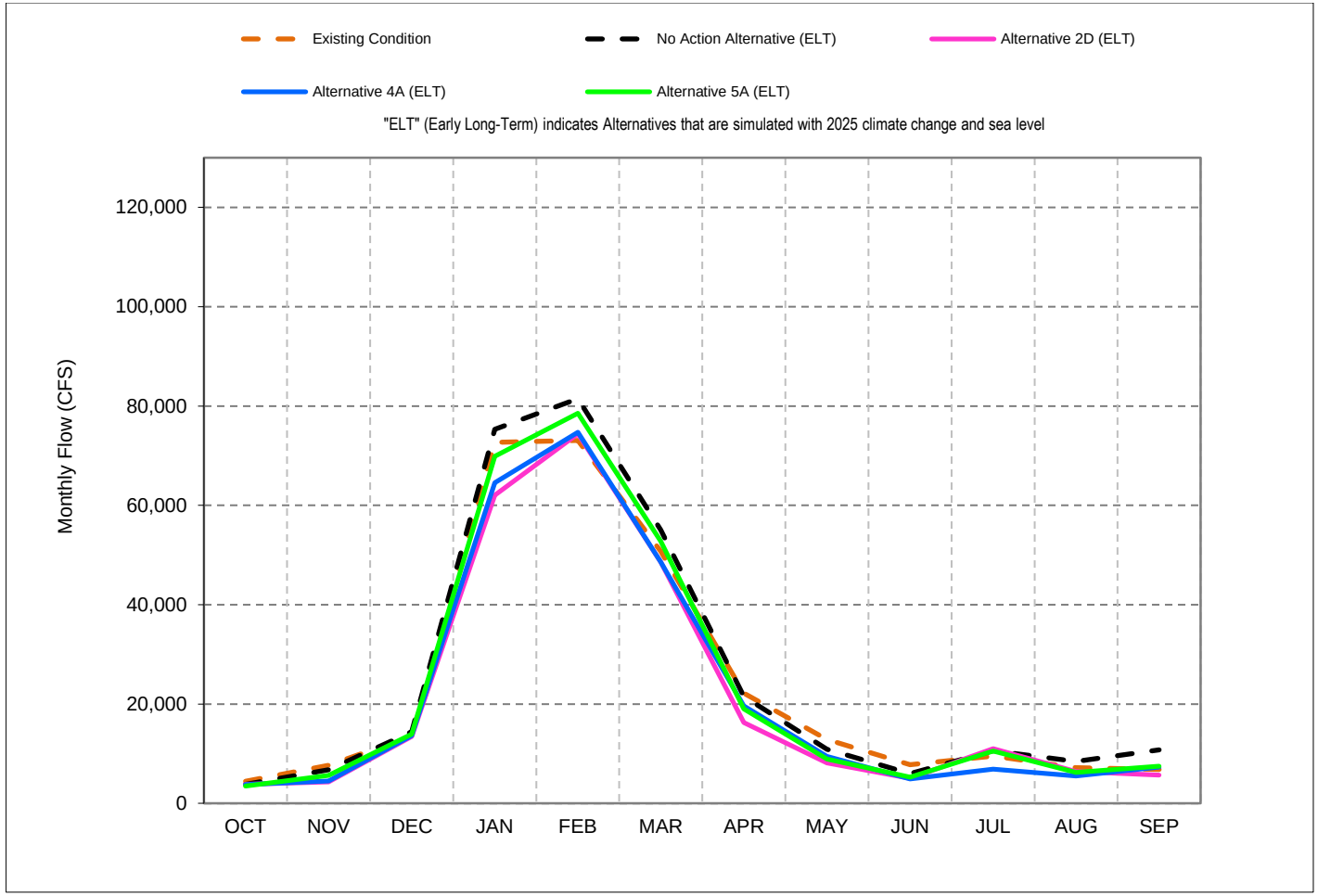


Figure C-63-1. Sacramento River at Rio Vista, Long-Term Average Flow



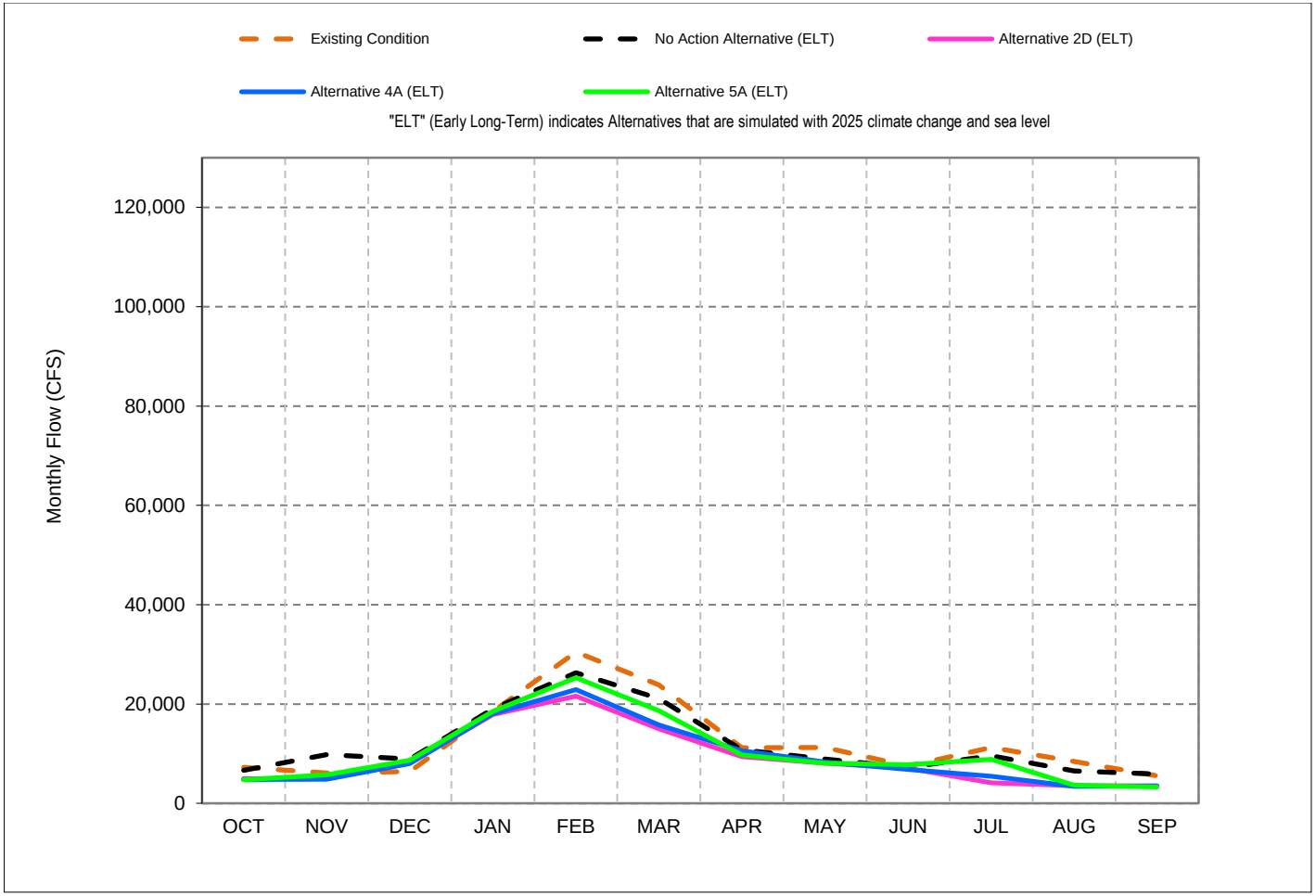
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-63-2. Sacramento River at Rio Vista, Wet Year* Average Flow



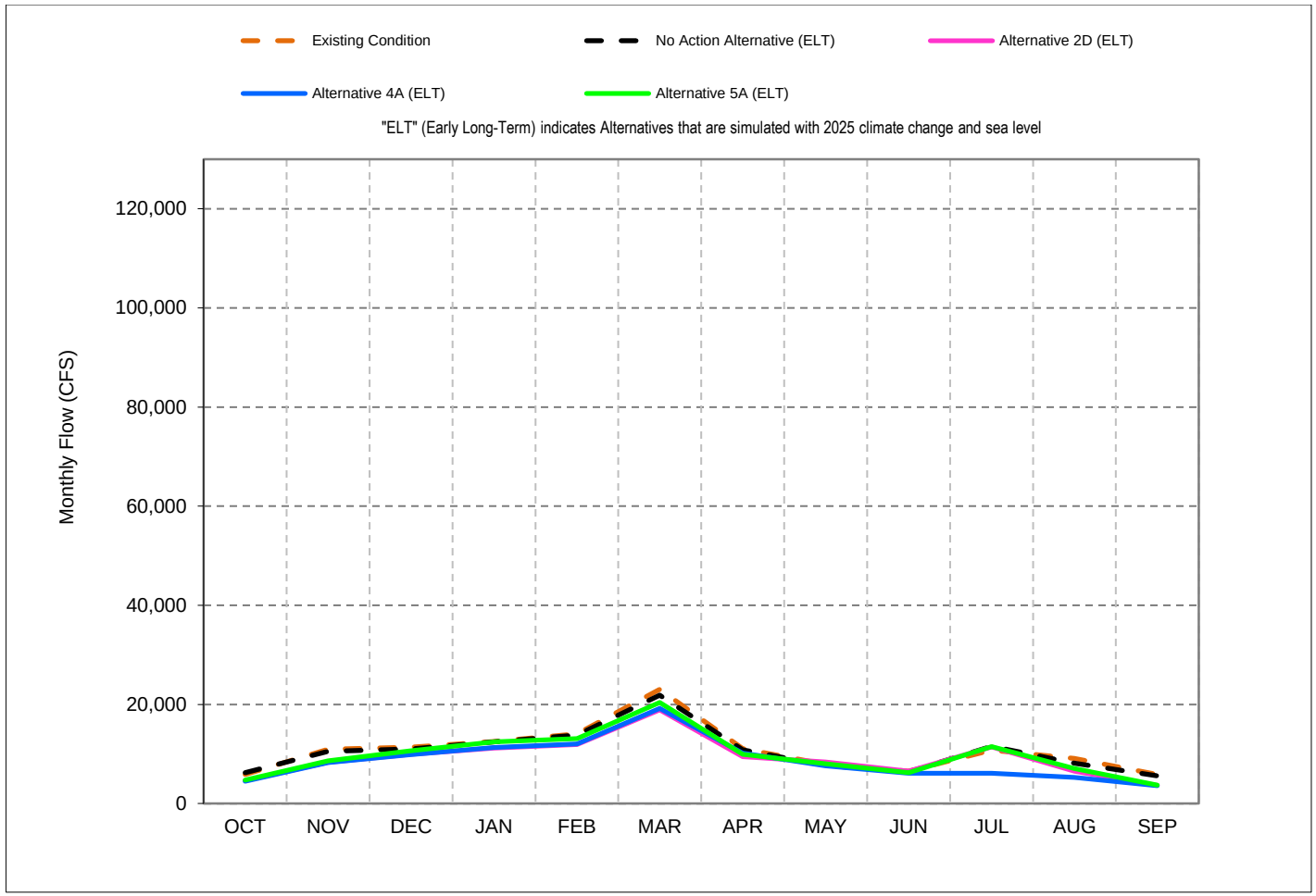
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-63-3. Sacramento River at Rio Vista, Above Normal Year* Average Flow



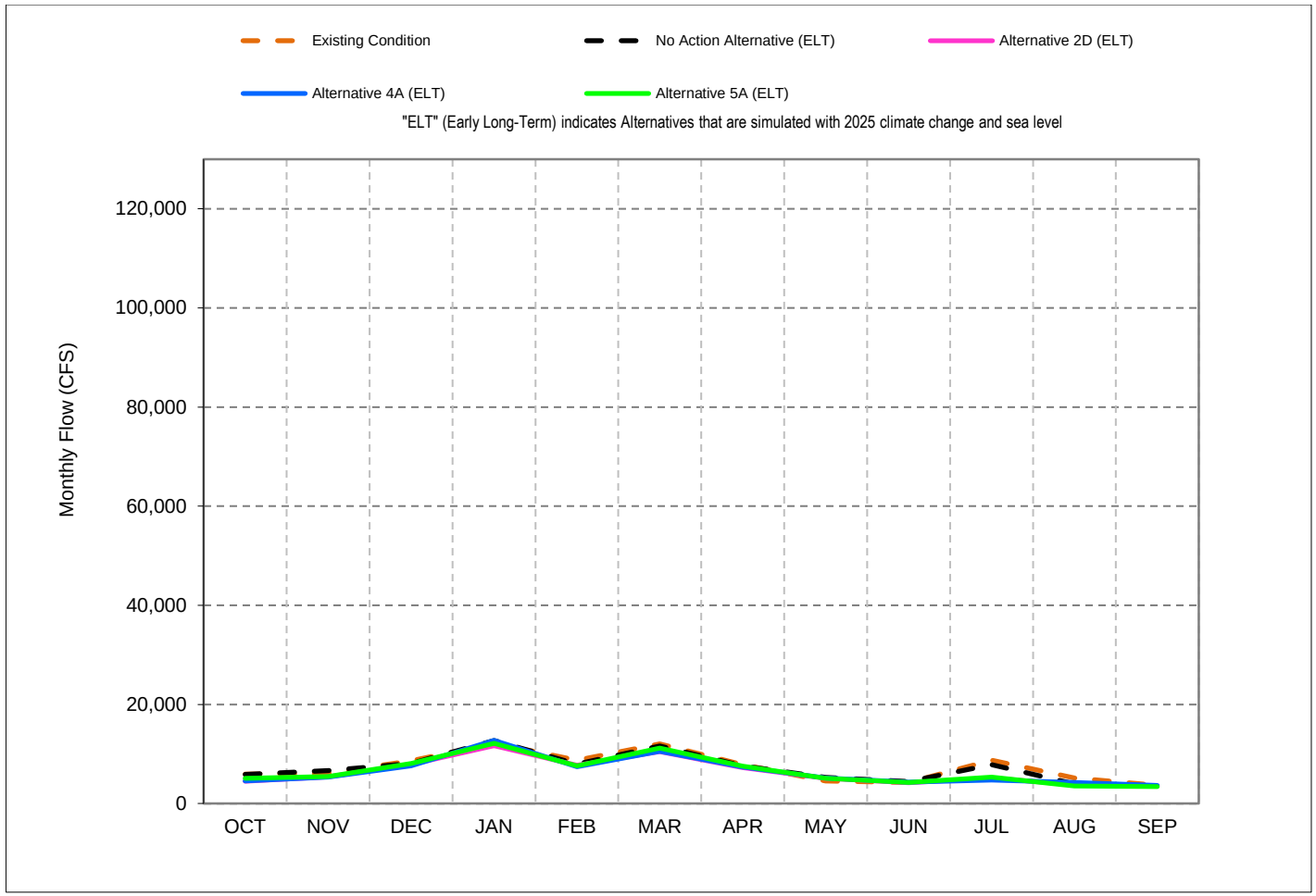
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-63-4. Sacramento River at Rio Vista, Below Normal Year* Average Flow



*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-63-5. Sacramento River at Rio Vista, Dry Year* Average Flow



*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-63-6. Sacramento River at Rio Vista, Critical Year* Average Flow

Table C-63-1. Sacramento River at Rio Vista, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,385	31,138	69,675	67,273	117,006	88,368	45,473	21,073	11,032	12,484	9,990	9,975
20%	8,340	25,692	19,018	57,369	80,159	56,966	17,880	11,286	7,475	11,265	9,178	7,158
30%	6,640	10,524	14,820	36,041	37,083	41,514	14,778	10,336	6,783	11,033	8,479	6,876
40%	5,804	6,981	13,297	19,373	28,310	28,913	11,217	9,543	6,605	10,748	8,386	6,309
50%	5,573	6,559	11,443	18,527	19,216	25,131	10,679	8,050	6,382	10,628	7,160	5,629
60%	5,315	6,139	9,972	14,974	11,621	22,730	9,402	7,432	6,017	10,451	6,603	5,548
70%	4,651	6,022	8,428	10,776	10,535	15,993	8,969	6,164	5,811	9,827	6,277	4,806
80%	4,314	5,493	7,075	9,795	10,135	11,611	8,453	5,245	4,405	8,212	5,916	3,606
90%	3,558	4,370	6,461	8,018	6,370	7,783	6,885	4,153	3,830	7,841	4,561	3,434
Long Term												
Full Simulation Period[a]	7,015	13,882	24,749	29,766	43,436	41,995	20,477	11,504	8,725	10,656	7,375	6,762
Water Year Types[b]												
Wet (31%)	10,652	31,489	68,384	50,337	104,544	98,550	47,110	23,167	17,294	13,330	8,218	11,761
Above Normal (25%)	4,462	7,684	13,591	72,714	73,083	50,754	22,220	12,873	7,812	9,516	7,215	6,858
Below Normal (6%)	7,265	6,122	6,422	18,492	30,475	23,872	11,217	11,286	7,475	11,265	8,443	5,548
Dry (13%)	5,912	10,977	11,391	12,546	14,092	23,047	11,064	7,913	6,523	10,777	9,104	5,869
Critical (25%)	5,960	6,150	8,654	12,160	8,757	12,031	7,855	4,544	4,247	8,754	5,167	3,682

No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	11,344	26,694	76,865	72,814	130,773	89,100	49,510	18,521	8,345	14,171	9,501	16,447
20%	9,546	18,729	17,034	61,201	86,976	63,463	17,536	10,588	6,705	11,396	8,966	14,414
30%	6,922	11,301	15,605	39,870	41,694	43,559	14,152	9,102	6,690	11,192	8,496	10,770
40%	6,485	9,694	13,119	19,019	26,306	29,110	10,756	8,260	6,397	10,697	7,978	6,901
50%	5,263	8,477	11,871	18,579	18,403	24,090	9,830	7,593	5,987	10,262	7,432	6,261
60%	4,494	6,976	9,964	15,100	11,859	19,602	9,118	7,467	5,579	9,840	6,527	5,363
70%	4,290	6,532	8,865	10,920	10,022	13,585	8,463	6,244	4,958	9,473	4,956	3,665
80%	4,127	4,973	6,811	10,058	7,838	10,354	7,811	5,886	4,240	8,915	3,585	3,525
90%	3,582	4,320	5,767	9,193	6,578	7,230	7,433	4,381	4,089	7,572	3,265	3,423
Long Term												
Full Simulation Period[a]	6,465	13,834	27,587	31,418	46,376	42,821	21,135	10,642	7,576	10,329	6,736	8,610
Water Year Types[b]												
Wet (31%)	8,657	30,611	79,787	54,919	114,380	102,042	50,717	20,656	13,543	12,164	7,964	17,637
Above Normal (25%)	3,838	6,757	14,421	75,298	81,487	55,094	21,525	10,881	5,988	10,631	8,472	10,770
Below Normal (6%)	6,644	9,834	8,938	19,019	26,306	21,153	10,756	8,911	7,283	9,619	6,527	5,904
Dry (13%)	6,252	10,550	11,031	12,455	13,831	21,878	10,843	7,669	6,393	11,578	8,171	5,602
Critical (25%)	5,898	6,671	8,069	12,717	7,980	11,624	7,624	5,262	4,443	7,884	3,954	3,472

No Action Alternative (ELT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-2,041	-4,443	7,189	5,542	13,767	732	4,037	-2,553	-2,687	1,687	-489	6,471
20%	1,205	-6,962	-1,984	3,832	6,817	6,496	-345	-697	-770	131	-213	7,256
30%	281	777	786	3,829	4,611	2,045	-626	-1,234	-93	160	17	3,894
40%	682	2,713	-178	-354	-2,003	197	-462	-1,283	-208	-51	-408	592
50%	-310	1,918	428	52	-813	-1,041	-849	-456	-395	-366	273	632
60%	-821	837	-9	126	238	-3,128	-284	36	-438	-612	-76	-185
70%	-361	510	437	144	-513	-2,408	-506	80	-852	-354	-1,321	-1,141
80%	-187	-520	-264	263	-2,296	-1,257	-642	641	-165	703	-2,331	-81
90%	24	-51	-694	1,175	208	-553	548	228	259	-268	-1,296	-11
Long Term												
Full Simulation Period[a]	-550	-47	2,839	1,653	2,941	826	658	-862	-1,149	-327	-638	1,848
Water Year Types[b]												
Wet (31%)	-1,995	-878	11,403	4,582	9,836	3,491	3,607	-2,511	-3,751	-1,167	-253	5,876
Above Normal (25%)	-624	-928	830	2,584	8,404	4,339	-695	-1,992	-1,824	1,115	1,256	3,912
Below Normal (6%)	-620	3,712	2,516	527	-4,168	-2,719	-462	-2,375	-192	-1,646	-1,916	356
Dry (13%)	340	-427	-360	-91	-261	-1,169	-222	-244	-129	801	-933	-268
Critical (25%)	-62	521	-585	557	-777	-408	-232	717	196	-870	-1,213	-210

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-63-2. Sacramento River at Rio Vista, Monthly Flow

Existing Condition

Statistic	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,385	31,138	69,675	67,273	117,006	88,368	45,473	21,073	11,032	12,484	9,990	9,975
20%	8,340	25,692	19,018	57,369	80,159	56,966	17,880	11,286	7,475	11,265	9,178	7,158
30%	6,640	10,524	14,820	36,041	37,083	41,514	14,778	10,336	6,783	11,033	8,479	6,876
40%	5,804	6,981	13,297	19,373	28,310	28,913	11,217	9,543	6,605	10,748	8,386	6,309
50%	5,573	6,559	11,443	18,527	19,216	25,131	10,679	8,050	6,382	10,628	7,160	5,629
60%	5,315	6,139	9,972	14,974	11,621	22,730	9,402	7,432	6,017	10,451	6,603	5,548
70%	4,651	6,022	8,428	10,776	10,535	15,993	8,969	6,164	5,811	9,827	6,277	4,806
80%	4,314	5,493	7,075	9,795	10,135	11,611	8,453	5,245	4,405	8,212	5,916	3,606
90%	3,558	4,370	6,461	8,018	6,370	7,783	6,885	4,153	3,830	7,841	4,561	3,434
Long Term												
Full Simulation Period[a]	7,015	13,882	24,749	29,766	43,436	41,995	20,477	11,504	8,725	10,656	7,375	6,762
Water Year Types[b]												
Wet (31%)	10,652	31,489	68,384	50,337	104,544	98,550	47,110	23,167	17,294	13,330	8,218	11,761
Above Normal (25%)	4,462	7,684	13,591	72,714	73,083	50,754	22,220	12,873	7,812	9,516	7,215	6,858
Below Normal (6%)	7,265	6,122	6,422	18,492	30,475	23,872	11,217	11,286	7,475	11,265	8,443	5,548
Dry (13%)	5,912	10,977	11,391	12,546	14,092	23,047	11,064	7,913	6,523	10,777	9,104	5,869
Critical (25%)	5,960	6,150	8,654	12,160	8,757	12,031	7,855	4,544	4,247	8,754	5,167	3,682

Alternative 2D (ELT)

Statistic	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5,287	20,904	64,541	63,672	125,266	78,210	42,886	12,922	7,165	12,982	8,125	9,667
20%	5,139	16,711	15,795	50,248	76,583	53,272	14,370	8,718	7,035	11,228	5,874	7,564
30%	4,977	7,522	14,778	34,172	33,202	38,603	10,234	8,488	6,231	9,829	5,209	5,721
40%	4,793	5,339	11,568	17,921	21,627	22,676	9,406	8,081	6,106	9,126	4,437	3,825
50%	4,606	5,009	10,366	15,817	15,297	18,726	8,304	7,776	5,675	8,248	4,015	3,737
60%	4,506	4,885	8,643	13,260	10,735	14,998	8,186	6,733	5,292	6,516	3,981	3,660
70%	4,476	4,840	8,158	10,294	9,100	11,566	8,127	6,086	4,502	5,742	3,805	3,539
80%	4,242	4,760	7,886	9,009	7,860	9,703	7,321	5,317	4,132	4,882	3,643	3,521
90%	3,766	4,268	5,655	8,336	6,434	6,877	7,099	4,136	3,960	4,094	3,530	3,490
Long Term												
Full Simulation Period[a]	4,578	10,905	25,000	27,292	42,328	38,216	18,567	9,209	6,709	8,415	5,114	5,315
Water Year Types[b]												
Wet (31%)	4,911	25,054	71,384	47,811	105,120	92,711	45,231	15,974	10,696	9,166	5,026	9,465
Above Normal (25%)	3,825	4,312	13,453	62,067	74,447	48,641	16,291	8,180	5,073	11,042	6,403	5,721
Below Normal (6%)	4,964	5,004	8,075	17,921	21,627	14,998	9,439	8,081	7,051	4,138	3,580	3,547
Dry (13%)	4,643	8,363	9,957	11,232	11,900	18,941	9,447	8,381	6,554	11,443	6,559	3,698
Critical (25%)	4,484	5,435	7,929	11,689	7,729	10,513	7,268	5,096	4,229	5,197	3,819	3,480

Alternative 2D (ELT) minus Existing Condition

Statistic	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-8,098	-10,234	-5,134	-3,601	8,260	-10,158	-2,587	-8,151	-3,867	498	-1,865	-309
20%	-3,202	-8,981	-3,223	-7,121	-3,576	-3,694	-3,510	-2,567	-440	-37	-3,304	406
30%	-1,664	-3,002	-41	-1,869	-3,881	-2,911	-4,544	-1,847	-552	-1,204	-3,270	-1,155
40%	-1,011	-1,642	-1,729	-1,452	-6,683	-6,237	-1,812	-1,462	-499	-1,622	-3,948	-2,484
50%	-967	-1,550	-1,077	-2,710	-3,919	-6,404	-2,375	-273	-707	-2,381	-3,144	-1,892
60%	-809	-1,254	-1,329	-1,714	-886	-7,732	-1,217	-699	-725	-3,935	-2,623	-1,888
70%	-175	-1,181	-270	-481	-1,435	-4,427	-842	-78	-1,309	-4,085	-2,473	-1,267
80%	-72	-732	811	-786	-2,274	-1,908	-1,132	71	-273	-3,330	-2,272	-85
90%	208	-103	-806	317	64	-906	213	-17	130	-3,746	-1,031	56
Long Term												
Full Simulation Period[a]	-2,437	-2,977	251	-2,474	-1,107	-3,780	-1,910	-2,296	-2,016	-2,241	-2,261	-1,447
Water Year Types[b]												
Wet (31%)	-5,741	-6,435	3,000	-2,526	577	-5,839	-1,878	-7,193	-6,598	-4,165	-3,192	-2,295
Above Normal (25%)	-637	-3,372	-138	-10,648	1,365	-2,114	-5,928	-4,693	-2,739	1,526	-812	-1,137
Below Normal (6%)	-2,301	-1,117	1,653	-572	-8,848	-8,874	-1,778	-3,204	-424	-7,127	-4,863	-2,001
Dry (13%)	-1,269	-2,614	-1,434	-1,314	-2,193	-4,106	-1,617	469	32	665	-2,545	-2,171
Critical (25%)	-1,477	-715	-725	-470	-1,027	-1,519	-588	552	-18	-3,557	-1,348	-202

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-63-3. Sacramento River at Rio Vista, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,385	31,138	69,675	67,273	117,006	88,368	45,473	21,073	11,032	12,484	9,990	9,975
20%	8,340	25,692	19,018	57,369	80,159	56,966	17,880	11,286	7,475	11,265	9,178	7,158
30%	6,640	10,524	14,820	36,041	37,083	41,514	14,778	10,336	6,783	11,033	8,479	6,876
40%	5,804	6,981	13,297	19,373	28,310	28,913	11,217	9,543	6,605	10,748	8,386	6,309
50%	5,573	6,559	11,443	18,527	19,216	25,131	10,679	8,050	6,382	10,628	7,160	5,629
60%	5,315	6,139	9,972	14,974	11,621	22,730	9,402	7,432	6,017	10,451	6,603	5,548
70%	4,651	6,022	8,428	10,776	10,535	15,993	8,969	6,164	5,811	9,827	6,277	4,806
80%	4,314	5,493	7,075	9,795	10,135	11,611	8,453	5,245	4,405	8,212	5,916	3,606
90%	3,558	4,370	6,461	8,018	6,370	7,783	6,885	4,153	3,830	7,841	4,561	3,434
Long Term												
Full Simulation Period[a]	7,015	13,882	24,749	29,766	43,436	41,995	20,477	11,504	8,725	10,656	7,375	6,762
Water Year Types[b]												
Wet (31%)	10,652	31,489	68,384	50,337	104,544	98,550	47,110	23,167	17,294	13,330	8,218	11,761
Above Normal (25%)	4,462	7,684	13,591	72,714	73,083	50,754	22,220	12,873	7,812	9,516	7,215	6,858
Below Normal (6%)	7,265	6,122	6,422	18,492	30,475	23,872	11,217	11,286	7,475	11,265	8,443	5,548
Dry (13%)	5,912	10,977	11,391	12,546	14,092	23,047	11,064	7,913	6,523	10,777	9,104	5,869
Critical (25%)	5,960	6,150	8,654	12,160	8,757	12,031	7,855	4,544	4,247	8,754	5,167	3,682

Alternative 4A (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	6,044	22,926	67,186	65,232	125,111	81,141	44,712	15,618	6,807	7,299	6,002	12,012
20%	5,252	16,394	15,595	54,222	78,624	55,253	16,736	10,281	6,718	6,742	5,708	9,080
30%	4,833	7,432	14,691	34,145	35,958	39,014	12,971	8,514	6,219	6,296	5,397	7,314
40%	4,750	5,414	12,238	18,079	22,938	23,390	10,589	8,307	5,751	6,120	5,147	4,218
50%	4,572	5,052	10,675	17,437	15,476	19,798	9,479	7,693	5,672	5,931	4,831	3,681
60%	4,510	4,892	8,208	15,854	11,101	15,802	8,683	6,677	5,141	5,566	4,457	3,653
70%	4,396	4,833	7,832	10,236	9,068	11,554	8,026	5,844	4,810	5,225	4,185	3,615
80%	4,245	4,725	7,036	8,962	7,836	9,692	7,303	5,292	4,128	4,940	4,063	3,554
90%	3,696	4,200	5,619	8,645	6,032	6,862	7,134	4,311	4,018	4,849	3,752	3,495
Long Term												
Full Simulation Period[a]	4,751	11,378	25,255	28,220	43,220	38,951	19,685	9,635	6,740	6,051	4,841	6,095
Water Year Types[b]												
Wet (31%)	5,671	27,038	72,842	48,822	108,469	95,186	46,859	17,641	11,204	7,298	5,072	11,612
Above Normal (25%)	3,822	4,495	13,629	64,589	74,732	48,629	19,647	9,492	4,953	6,872	5,535	7,314
Below Normal (6%)	4,837	4,892	8,022	18,079	22,938	15,802	10,589	8,325	6,840	5,446	3,410	3,506
Dry (13%)	4,536	8,284	9,862	11,322	12,032	19,181	10,158	7,645	6,119	6,142	5,304	3,604
Critical (25%)	4,541	5,376	7,596	12,738	7,425	10,538	7,402	5,140	4,361	4,773	4,296	3,703

Alternative 4A (ELT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-7,341	-8,212	-2,489	-2,040	8,105	-7,227	-762	-5,455	-4,226	-5,185	-3,988	2,037
20%	-3,088	-9,298	-3,423	-3,147	-1,535	-1,714	-1,144	-1,004	-757	-4,523	-3,470	1,922
30%	-1,807	-3,091	-129	-1,896	-1,125	-2,500	-1,807	-1,822	-564	-4,737	-3,082	438
40%	-1,054	-1,567	-1,059	-1,294	-5,372	-5,522	-628	-1,236	-854	-4,628	-3,239	-2,091
50%	-1,001	-1,507	-769	-1,090	-3,740	-5,333	-1,200	-356	-711	-4,698	-2,328	-1,948
60%	-805	-1,247	-1,765	880	-520	-6,928	-719	-755	-875	-4,885	-2,147	-1,895
70%	-255	-1,189	-596	-540	-1,467	-4,439	-943	-320	-1,000	-4,601	-2,092	-1,191
80%	-70	-767	-39	-833	-2,298	-1,919	-1,150	47	-277	-3,273	-1,852	-52
90%	137	-170	-842	627	-338	-921	249	158	188	-2,992	-809	61
Long Term												
Full Simulation Period[a]	-2,264	-2,504	506	-1,546	-215	-3,044	-792	-1,870	-1,985	-4,605	-2,533	-667
Water Year Types[b]												
Wet (31%)	-4,981	-4,452	4,458	-1,515	3,925	-3,365	-250	-5,525	-6,090	-6,033	-3,146	-149
Above Normal (25%)	-640	-3,189	38	-8,125	1,650	-2,126	-2,573	-3,381	-2,859	-2,644	-1,681	457
Below Normal (6%)	-2,428	-1,230	1,600	-413	-7,537	-8,070	-628	-2,960	-635	-5,819	-5,033	-2,042
Dry (13%)	-1,376	-2,693	-1,529	-1,224	-2,061	-3,866	-906	-268	-403	-4,636	-3,800	-2,265
Critical (25%)	-1,419	-774	-1,059	579	-1,332	-1,494	-453	596	114	-3,981	-871	21

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-63-4. Sacramento River at Rio Vista, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,385	31,138	69,675	67,273	117,006	88,368	45,473	21,073	11,032	12,484	9,990	9,975
20%	8,340	25,692	19,018	57,369	80,159	56,966	17,880	11,286	7,475	11,265	9,178	7,158
30%	6,640	10,524	14,820	36,041	37,083	41,514	14,778	10,336	6,783	11,033	8,479	6,876
40%	5,804	6,981	13,297	19,373	28,310	28,913	11,217	9,543	6,605	10,748	8,386	6,309
50%	5,573	6,559	11,443	18,527	19,216	25,131	10,679	8,050	6,382	10,628	7,160	5,629
60%	5,315	6,139	9,972	14,974	11,621	22,730	9,402	7,432	6,017	10,451	6,603	5,548
70%	4,651	6,022	8,428	10,776	10,535	15,993	8,969	6,164	5,811	9,827	6,277	4,806
80%	4,314	5,493	7,075	9,795	10,135	11,611	8,453	5,245	4,405	8,212	5,916	3,606
90%	3,558	4,370	6,461	8,018	6,370	7,783	6,885	4,153	3,830	7,841	4,561	3,434
Long Term												
Full Simulation Period[a]	7,015	13,882	24,749	29,766	43,436	41,995	20,477	11,504	8,725	10,656	7,375	6,762
Water Year Types[b]												
Wet (31%)	10,652	31,489	68,384	50,337	104,544	98,550	47,110	23,167	17,294	13,330	8,218	11,761
Above Normal (25%)	4,462	7,684	13,591	72,714	73,083	50,754	22,220	12,873	7,812	9,516	7,215	6,858
Below Normal (6%)	7,265	6,122	6,422	18,492	30,475	23,872	11,217	11,286	7,475	11,265	8,443	5,548
Dry (13%)	5,912	10,977	11,391	12,546	14,092	23,047	11,064	7,913	6,523	10,777	9,104	5,869
Critical (25%)	5,960	6,150	8,654	12,160	8,757	12,031	7,855	4,544	4,247	8,754	5,167	3,682

Alternative 5A (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	8,984	24,487	72,435	69,855	127,690	86,997	47,444	16,503	7,607	12,975	8,862	11,411
20%	5,722	17,536	16,389	58,590	83,811	60,404	15,324	10,360	6,743	11,181	7,855	9,782
30%	5,001	7,969	15,292	37,534	38,935	41,208	12,010	8,491	6,498	10,914	6,785	7,503
40%	4,596	6,430	11,973	18,535	25,328	26,551	9,741	8,109	5,977	10,642	5,366	3,978
50%	4,418	5,679	11,482	17,125	16,933	22,088	8,944	7,110	5,711	9,428	4,446	3,805
60%	4,359	5,124	9,769	14,012	11,257	18,009	8,648	6,395	5,439	8,881	3,844	3,637
70%	4,211	4,967	8,703	11,138	9,374	12,523	8,411	6,310	4,577	8,358	3,690	3,467
80%	4,110	4,896	7,122	10,758	7,567	10,110	8,017	5,473	4,226	4,634	3,606	3,461
90%	3,638	4,360	5,658	9,297	6,879	7,204	7,033	4,194	4,064	3,879	3,382	3,389
Long Term												
Full Simulation Period[a]	5,312	12,050	26,632	29,877	44,993	41,253	20,055	10,007	7,207	8,987	5,501	6,081
Water Year Types[b]												
Wet (31%)	7,219	28,482	76,612	52,221	111,681	99,514	48,878	19,085	12,655	10,264	6,450	11,674
Above Normal (25%)	3,501	5,660	13,967	69,915	78,547	52,806	19,023	8,956	5,279	10,575	6,220	7,503
Below Normal (6%)	4,729	5,739	8,684	18,535	25,328	18,689	9,741	8,109	7,820	8,881	3,685	3,318
Dry (13%)	4,729	8,620	10,664	12,462	13,138	20,430	9,919	8,027	6,220	11,491	7,096	3,763
Critical (25%)	5,094	5,467	8,078	12,188	7,640	11,195	7,582	5,130	4,287	5,350	3,542	3,444

Alternative 5A (ELT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-4,401	-6,651	2,760	2,582	10,683	-1,371	1,970	-4,570	-3,425	491	-1,128	1,435
20%	-2,619	-8,155	-2,629	1,221	3,652	3,438	-2,556	-926	-732	-84	-1,323	2,624
30%	-1,639	-2,555	472	1,493	1,852	-306	-2,768	-1,845	-285	-119	-1,694	627
40%	-1,207	-551	-1,324	-839	-2,981	-2,361	-1,476	-1,434	-629	-106	-3,019	-2,331
50%	-1,155	-880	38	-1,402	-2,283	-3,043	-1,735	-940	-672	-1,201	-2,714	-1,824
60%	-956	-1,016	-203	-962	-364	-4,720	-754	-1,037	-578	-1,570	-2,760	-1,911
70%	-440	-1,055	275	363	-1,160	-3,470	-559	146	-1,234	-1,469	-2,588	-1,338
80%	-205	-597	47	963	-2,568	-1,501	-436	228	-179	-3,578	-2,310	-145
90%	79	-11	-803	1,279	509	-580	147	40	235	-3,962	-1,179	-46
Long Term												
Full Simulation Period[a]	-1,703	-1,831	1,884	111	1,558	-742	-422	-1,497	-1,518	-1,669	-1,874	-681
Water Year Types[b]												
Wet (31%)	-3,433	-3,007	8,228	1,883	7,137	964	1,768	-4,081	-4,639	-3,066	-1,768	-87
Above Normal (25%)	-961	-2,025	375	-2,799	5,464	2,052	-3,197	-3,917	-2,534	1,058	-996	645
Below Normal (6%)	-2,535	-382	2,261	42	-5,146	-5,183	-1,476	-3,176	345	-2,384	-4,758	-2,230
Dry (13%)	-1,183	-2,357	-727	-85	-955	-2,617	-1,146	114	-303	714	-2,008	-2,106
Critical (25%)	-866	-683	-576	28	-1,117	-837	-273	585	40	-3,404	-1,625	-238

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-63-5. Sacramento River at Rio Vista, Monthly Flow

No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	11,344	26,694	76,865	72,814	130,773	89,100	49,510	18,521	8,345	14,171	9,501	16,447
20%	9,546	18,729	17,034	61,201	86,976	63,463	17,536	10,588	6,705	11,396	8,966	14,414
30%	6,922	11,301	15,605	39,870	41,694	43,559	14,152	9,102	6,690	11,192	8,496	10,770
40%	6,485	9,694	13,119	19,019	26,306	29,110	10,756	8,260	6,397	10,697	7,978	6,901
50%	5,263	8,477	11,871	18,579	18,403	24,090	9,830	7,593	5,987	10,262	7,432	6,261
60%	4,494	6,976	9,964	15,100	11,859	19,602	9,118	7,467	5,579	9,840	6,527	5,363
70%	4,290	6,532	8,865	10,920	10,022	13,585	8,463	6,244	4,958	9,473	4,956	3,665
80%	4,127	4,973	6,811	10,058	7,838	10,354	7,811	5,886	4,240	8,915	3,585	3,525
90%	3,582	4,320	5,767	9,193	6,578	7,230	7,433	4,381	4,089	7,572	3,265	3,423
Long Term												
Full Simulation Period[a]	6,465	13,834	27,587	31,418	46,376	42,821	21,135	10,642	7,576	10,329	6,736	8,610
Water Year Types[b]												
Wet (31%)	8,657	30,611	79,787	54,919	114,380	102,042	50,717	20,656	13,543	12,164	7,964	17,637
Above Normal (25%)	3,838	6,757	14,421	75,298	81,487	55,094	21,525	10,881	5,988	10,631	8,472	10,770
Below Normal (6%)	6,644	9,834	8,938	19,019	26,306	21,153	10,756	8,911	7,283	9,619	6,527	5,904
Dry (13%)	6,252	10,550	11,031	12,455	13,831	21,878	10,843	7,669	6,393	11,578	8,171	5,602
Critical (25%)	5,898	6,671	8,069	12,717	7,980	11,624	7,624	5,262	4,443	7,884	3,954	3,472

Alternative 2D (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5,287	20,904	64,541	63,672	125,266	78,210	42,886	12,922	7,165	12,982	8,125	9,667
20%	5,139	16,711	15,795	50,248	76,583	53,272	14,370	8,718	7,035	11,228	5,874	7,564
30%	4,977	7,522	14,778	34,172	33,202	38,603	10,234	8,488	6,231	9,829	5,209	5,721
40%	4,793	5,339	11,568	17,921	21,627	22,676	9,406	8,081	6,106	9,126	4,437	3,825
50%	4,606	5,009	10,366	15,817	15,297	18,726	8,304	7,776	5,675	8,248	4,015	3,737
60%	4,506	4,885	8,643	13,260	10,735	14,998	8,186	6,733	5,292	6,516	3,981	3,660
70%	4,476	4,840	8,158	10,294	9,100	11,566	8,127	6,086	4,502	5,742	3,805	3,539
80%	4,242	4,760	7,886	9,009	7,860	9,703	7,321	5,317	4,132	4,882	3,643	3,521
90%	3,766	4,268	5,655	8,336	6,434	6,877	7,099	4,136	3,960	4,094	3,530	3,490
Long Term												
Full Simulation Period[a]	4,578	10,905	25,000	27,292	42,328	38,216	18,567	9,209	6,709	8,415	5,114	5,315
Water Year Types[b]												
Wet (31%)	4,911	25,054	71,384	47,811	105,120	92,711	45,231	15,974	10,696	9,166	5,026	9,465
Above Normal (25%)	3,825	4,312	13,453	62,067	74,447	48,641	16,291	8,180	5,073	11,042	6,403	5,721
Below Normal (6%)	4,964	5,004	8,075	17,921	21,627	14,998	9,439	8,081	7,051	4,138	3,580	3,547
Dry (13%)	4,643	8,363	9,957	11,232	11,900	18,941	9,447	8,381	6,554	11,443	6,559	3,698
Critical (25%)	4,484	5,435	7,929	11,689	7,729	10,513	7,268	5,096	4,229	5,197	3,819	3,480

Alternative 2D (ELT) minus No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-6,057	-5,791	-12,324	-9,143	-5,506	-10,890	-6,624	-5,598	-1,180	-1,189	-1,376	-6,780
20%	-4,407	-2,018	-1,239	-10,953	-10,393	-10,191	-3,166	-1,870	330	-168	-3,091	-6,850
30%	-1,945	-3,778	-827	-5,699	-8,492	-4,957	-3,918	-613	-459	-1,363	-3,287	-5,049
40%	-1,692	-4,355	-1,551	-1,099	-4,679	-6,434	-1,350	-178	-291	-1,571	-3,541	-3,076
50%	-657	-3,468	-1,505	-2,761	-3,107	-5,364	-1,526	183	-312	-2,014	-3,417	-2,524
60%	12	-2,091	-1,321	-1,840	-1,124	-4,604	-933	-734	-287	-3,323	-2,547	-1,703
70%	186	-1,692	-707	-625	-922	-2,018	-336	-158	-457	-3,731	-1,151	-126
80%	115	-212	1,075	-1,049	22	-651	-489	-570	-107	-4,033	59	-5
90%	184	-52	-112	-857	-144	-353	-335	-245	-129	-3,478	264	67
Long Term												
Full Simulation Period[a]	-1,887	-2,930	-2,588	-4,126	-4,048	-4,605	-2,568	-1,434	-867	-1,914	-1,623	-3,295
Water Year Types[b]												
Wet (31%)	-3,746	-5,557	-8,403	-7,108	-9,259	-9,330	-5,486	-4,682	-2,848	-2,998	-2,939	-8,171
Above Normal (25%)	-13	-2,444	-968	-13,231	-7,039	-6,453	-5,233	-2,701	-915	412	-2,068	-5,049
Below Normal (6%)	-1,681	-4,829	-863	-1,099	-4,679	-6,154	-1,316	-829	-232	-5,481	-2,948	-2,357
Dry (13%)	-1,609	-2,188	-1,073	-1,223	-1,931	-2,937	-1,396	712	161	-135	-1,612	-1,904
Critical (25%)	-1,414	-1,236	-140	-1,027	-250	-1,111	-356	-166	-214	-2,687	-135	9

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-63-6. Sacramento River at Rio Vista, Monthly Flow

No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	11,344	26,694	76,865	72,814	130,773	89,100	49,510	18,521	8,345	14,171	9,501	16,447
20%	9,546	18,729	17,034	61,201	86,976	63,463	17,536	10,588	6,705	11,396	8,966	14,414
30%	6,922	11,301	15,605	39,870	41,694	43,559	14,152	9,102	6,690	11,192	8,496	10,770
40%	6,485	9,694	13,119	19,019	26,306	29,110	10,756	8,260	6,397	10,697	7,978	6,901
50%	5,263	8,477	11,871	18,579	18,403	24,090	9,830	7,593	5,987	10,262	7,432	6,261
60%	4,494	6,976	9,964	15,100	11,859	19,602	9,118	7,467	5,579	9,840	6,527	5,363
70%	4,290	6,532	8,865	10,920	10,022	13,585	8,463	6,244	4,958	9,473	4,956	3,665
80%	4,127	4,973	6,811	10,058	7,838	10,354	7,811	5,886	4,240	8,915	3,585	3,525
90%	3,582	4,320	5,767	9,193	6,578	7,230	7,433	4,381	4,089	7,572	3,265	3,423
Long Term												
Full Simulation Period[a]	6,465	13,834	27,587	31,418	46,376	42,821	21,135	10,642	7,576	10,329	6,736	8,610
Water Year Types[b]												
Wet (31%)	8,657	30,611	79,787	54,919	114,380	102,042	50,717	20,656	13,543	12,164	7,964	17,637
Above Normal (25%)	3,838	6,757	14,421	75,298	81,487	55,094	21,525	10,881	5,988	10,631	8,472	10,770
Below Normal (6%)	6,644	9,834	8,938	19,019	26,306	21,153	10,756	8,911	7,283	9,619	6,527	5,904
Dry (13%)	6,252	10,550	11,031	12,455	13,831	21,878	10,843	7,669	6,393	11,578	8,171	5,602
Critical (25%)	5,898	6,671	8,069	12,717	7,980	11,624	7,624	5,262	4,443	7,884	3,954	3,472

Alternative 4A (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	6,044	22,926	67,186	65,232	125,111	81,141	44,712	15,618	6,807	7,299	6,002	12,012
20%	5,252	16,394	15,595	54,222	78,624	55,253	16,736	10,281	6,718	6,742	5,708	9,080
30%	4,833	7,432	14,691	34,145	35,958	39,014	12,971	8,514	6,219	6,296	5,397	7,314
40%	4,750	5,414	12,238	18,079	22,938	23,390	10,589	8,307	5,751	6,120	5,147	4,218
50%	4,572	5,052	10,675	17,437	15,476	19,798	9,479	7,693	5,672	5,931	4,831	3,681
60%	4,510	4,892	8,208	15,854	11,101	15,802	8,683	6,677	5,141	5,566	4,457	3,653
70%	4,396	4,833	7,832	10,236	9,068	11,554	8,026	5,844	4,810	5,225	4,185	3,615
80%	4,245	4,725	7,036	8,962	7,836	9,692	7,303	5,292	4,128	4,940	4,063	3,554
90%	3,696	4,200	5,619	8,645	6,032	6,862	7,134	4,311	4,018	4,849	3,752	3,495
Long Term												
Full Simulation Period[a]	4,751	11,378	25,255	28,220	43,220	38,951	19,685	9,635	6,740	6,051	4,841	6,095
Water Year Types[b]												
Wet (31%)	5,671	27,038	72,842	48,822	108,469	95,186	46,859	17,641	11,204	7,298	5,072	11,612
Above Normal (25%)	3,822	4,495	13,629	64,589	74,732	48,629	19,647	9,492	4,953	6,872	5,535	7,314
Below Normal (6%)	4,837	4,892	8,022	18,079	22,938	15,802	10,589	8,325	6,840	5,446	3,410	3,506
Dry (13%)	4,536	8,284	9,862	11,322	12,032	19,181	10,158	7,645	6,119	6,142	5,304	3,604
Critical (25%)	4,541	5,376	7,596	12,738	7,425	10,538	7,402	5,140	4,361	4,773	4,296	3,703

Alternative 4A (ELT) minus No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-5,300	-3,769	-9,679	-7,582	-5,662	-7,959	-4,799	-2,902	-1,538	-6,872	-3,498	-4,435
20%	-4,294	-2,336	-1,439	-6,979	-8,352	-8,210	-800	-307	12	-4,654	-3,258	-5,334
30%	-2,088	-3,868	-915	-5,725	-5,737	-4,545	-1,181	-588	-471	-4,896	-3,099	-3,456
40%	-1,735	-4,280	-881	-940	-3,368	-5,720	-167	47	-646	-4,577	-2,831	-2,683
50%	-691	-3,425	-1,197	-1,142	-2,927	-4,292	-351	100	-316	-4,331	-2,601	-2,580
60%	16	-2,084	-1,756	754	-758	-3,800	-436	-790	-438	-4,273	-2,071	-1,710
70%	106	-1,699	-1,033	-684	-954	-2,031	-437	-400	-148	-4,248	-771	-50
80%	118	-247	225	-1,096	-2	-662	-508	-594	-112	-3,975	478	29
90%	113	-119	-148	-548	-546	-368	-299	-70	-71	-2,724	487	72
Long Term												
Full Simulation Period[a]	-1,714	-2,456	-2,333	-3,198	-3,156	-3,870	-1,450	-1,008	-836	-4,278	-1,895	-2,515
Water Year Types[b]												
Wet (31%)	-2,985	-3,574	-6,945	-6,097	-5,911	-6,856	-3,858	-3,014	-2,340	-4,866	-2,893	-6,025
Above Normal (25%)	-16	-2,261	-791	-10,709	-6,754	-6,465	-1,878	-1,389	-1,035	-3,759	-2,937	-3,456
Below Normal (6%)	-1,808	-4,942	-916	-940	-3,368	-5,350	-167	-585	-443	-4,173	-3,118	-2,398
Dry (13%)	-1,717	-2,266	-1,169	-1,133	-1,800	-2,696	-684	-24	-274	-5,437	-2,868	-1,997
Critical (25%)	-1,357	-1,295	-473	22	-555	-1,086	-221	-122	-82	-3,111	342	231

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-63-7. Sacramento River at Rio Vista, Monthly Flow

No Action Alternative (ELT)

Statistic	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	11,344	26,694	76,865	72,814	130,773	89,100	49,510	18,521	8,345	14,171	9,501	16,447
20%	9,546	18,729	17,034	61,201	86,976	63,463	17,536	10,588	6,705	11,396	8,966	14,414
30%	6,922	11,301	15,605	39,870	41,694	43,559	14,152	9,102	6,690	11,192	8,496	10,770
40%	6,485	9,694	13,119	19,019	26,306	29,110	10,756	8,260	6,397	10,697	7,978	6,901
50%	5,263	8,477	11,871	18,579	18,403	24,090	9,830	7,593	5,987	10,262	7,432	6,261
60%	4,494	6,976	9,964	15,100	11,859	19,602	9,118	7,467	5,579	9,840	6,527	5,363
70%	4,290	6,532	8,865	10,920	10,022	13,585	8,463	6,244	4,958	9,473	4,956	3,665
80%	4,127	4,973	6,811	10,058	7,838	10,354	7,811	5,886	4,240	8,915	3,585	3,525
90%	3,582	4,320	5,767	9,193	6,578	7,230	7,433	4,381	4,089	7,572	3,265	3,423
Long Term												
Full Simulation Period[a]	6,465	13,834	27,587	31,418	46,376	42,821	21,135	10,642	7,576	10,329	6,736	8,610
Water Year Types[b]												
Wet (31%)	8,657	30,611	79,787	54,919	114,380	102,042	50,717	20,656	13,543	12,164	7,964	17,637
Above Normal (25%)	3,838	6,757	14,421	75,298	81,487	55,094	21,525	10,881	5,988	10,631	8,472	10,770
Below Normal (6%)	6,644	9,834	8,938	19,019	26,306	21,153	10,756	8,911	7,283	9,619	6,527	5,904
Dry (13%)	6,252	10,550	11,031	12,455	13,831	21,878	10,843	7,669	6,393	11,578	8,171	5,602
Critical (25%)	5,898	6,671	8,069	12,717	7,980	11,624	7,624	5,262	4,443	7,884	3,954	3,472

Alternative 5A (ELT)

Statistic	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	8,984	24,487	72,435	69,855	127,690	86,997	47,444	16,503	7,607	12,975	8,862	11,411
20%	5,722	17,536	16,389	58,590	83,811	60,404	15,324	10,360	6,743	11,181	7,855	9,782
30%	5,001	7,969	15,292	37,534	38,935	41,208	12,010	8,491	6,498	10,914	6,785	7,503
40%	4,596	6,430	11,973	18,535	25,328	26,551	9,741	8,109	5,977	10,642	5,366	3,978
50%	4,418	5,679	11,482	17,125	16,933	22,088	8,944	7,110	5,711	9,428	4,446	3,805
60%	4,359	5,124	9,769	14,012	11,257	18,009	8,648	6,395	5,439	8,881	3,844	3,637
70%	4,211	4,967	8,703	11,138	9,374	12,523	8,411	6,310	4,577	8,358	3,690	3,467
80%	4,110	4,896	7,122	10,758	7,567	10,110	8,017	5,473	4,226	4,634	3,606	3,461
90%	3,638	4,360	5,658	9,297	6,879	7,204	7,033	4,194	4,064	3,879	3,382	3,389
Long Term												
Full Simulation Period[a]	5,312	12,050	26,632	29,877	44,993	41,253	20,055	10,007	7,207	8,987	5,501	6,081
Water Year Types[b]												
Wet (31%)	7,219	28,482	76,612	52,221	111,681	99,514	48,878	19,085	12,655	10,264	6,450	11,674
Above Normal (25%)	3,501	5,660	13,967	69,915	78,547	52,806	19,023	8,956	5,279	10,575	6,220	7,503
Below Normal (6%)	4,729	5,739	8,684	18,535	25,328	18,689	9,741	8,109	7,820	8,881	3,685	3,318
Dry (13%)	4,729	8,620	10,664	12,462	13,138	20,430	9,919	8,027	6,220	11,491	7,096	3,763
Critical (25%)	5,094	5,467	8,078	12,188	7,640	11,195	7,582	5,130	4,287	5,350	3,542	3,444

Alternative 5A (ELT) minus No Action Alternative (ELT)

Statistic	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-2,360	-2,208	-4,429	-2,960	-3,083	-2,103	-2,067	-2,017	-738	-1,197	-639	-5,036
20%	-3,824	-1,193	-645	-2,611	-3,165	-3,058	-2,212	-228	38	-215	-1,110	-4,632
30%	-1,920	-3,331	-313	-2,337	-2,760	-2,351	-2,142	-611	-192	-279	-1,711	-3,267
40%	-1,889	-3,264	-1,146	-485	-978	-2,559	-1,015	-150	-421	-55	-2,612	-2,923
50%	-846	-2,798	-390	-1,453	-1,470	-2,002	-886	-483	-277	-834	-2,986	-2,456
60%	-135	-1,853	-195	-1,088	-602	-1,593	-471	-1,073	-140	-958	-2,684	-1,726
70%	-79	-1,565	-162	219	-648	-1,062	-53	66	-382	-1,115	-1,266	-197
80%	-17	-77	311	700	-272	-244	207	-413	-13	-4,281	21	-65
90%	55	40	-110	104	301	-26	-401	-187	-25	-3,694	116	-34
Long Term												
Full Simulation Period[a]	-1,153	-1,784	-955	-1,541	-1,383	-1,568	-1,080	-635	-369	-1,342	-1,235	-2,529
Water Year Types[b]												
Wet (31%)	-1,437	-2,129	-3,175	-2,698	-2,699	-2,527	-1,839	-1,570	-888	-1,900	-1,515	-5,963
Above Normal (25%)	-337	-1,097	-454	-5,383	-2,940	-2,287	-2,502	-1,925	-709	-56	-2,252	-3,267
Below Normal (6%)	-1,915	-4,095	-255	-485	-978	-2,464	-1,015	-801	538	-738	-2,842	-2,586
Dry (13%)	-1,523	-1,930	-367	7	-694	-1,447	-924	358	-174	-87	-1,075	-1,839
Critical (25%)	-804	-1,204	9	-529	-340	-429	-41	-132	-156	-2,534	-412	-27

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

C.64. Sutter and Steamboat Slough Flows

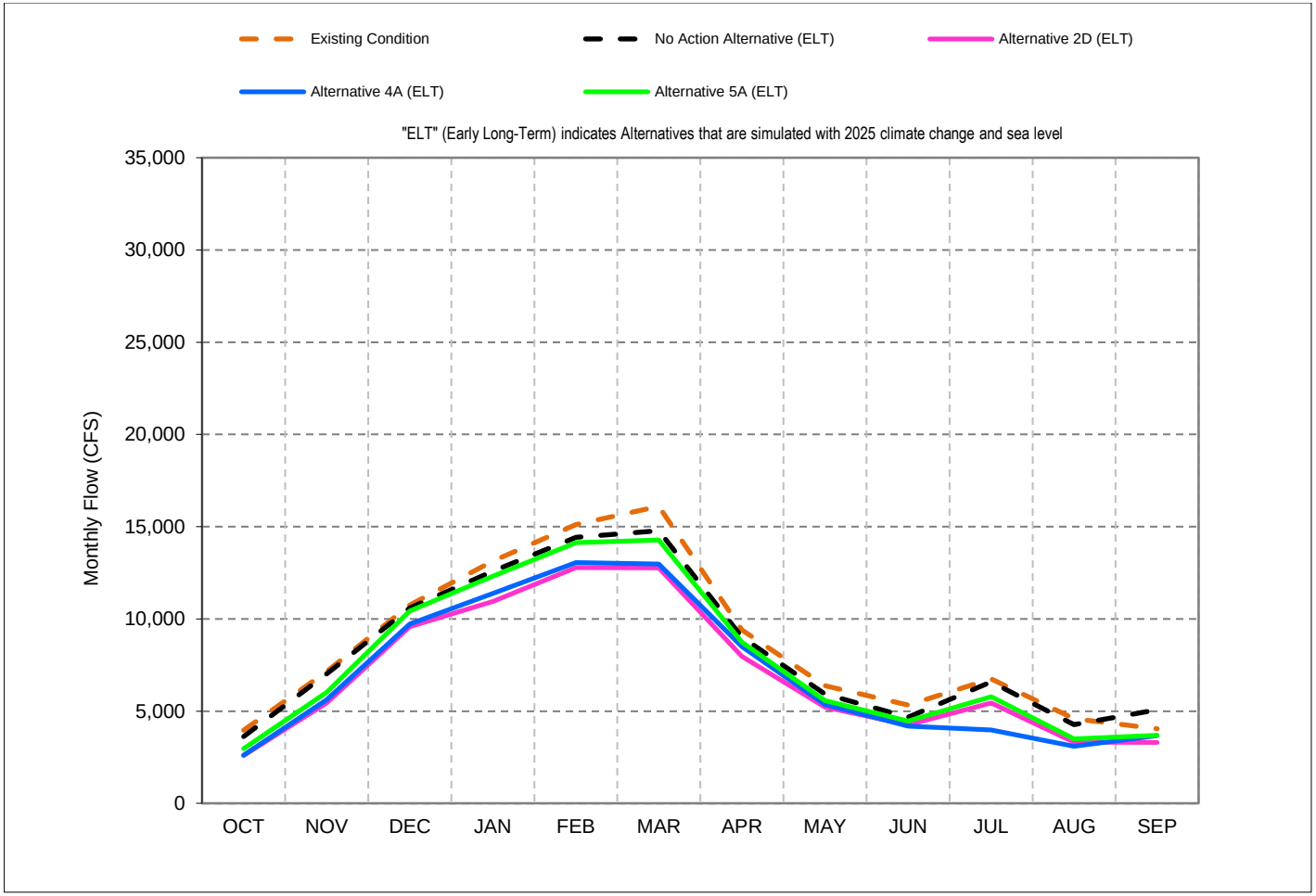
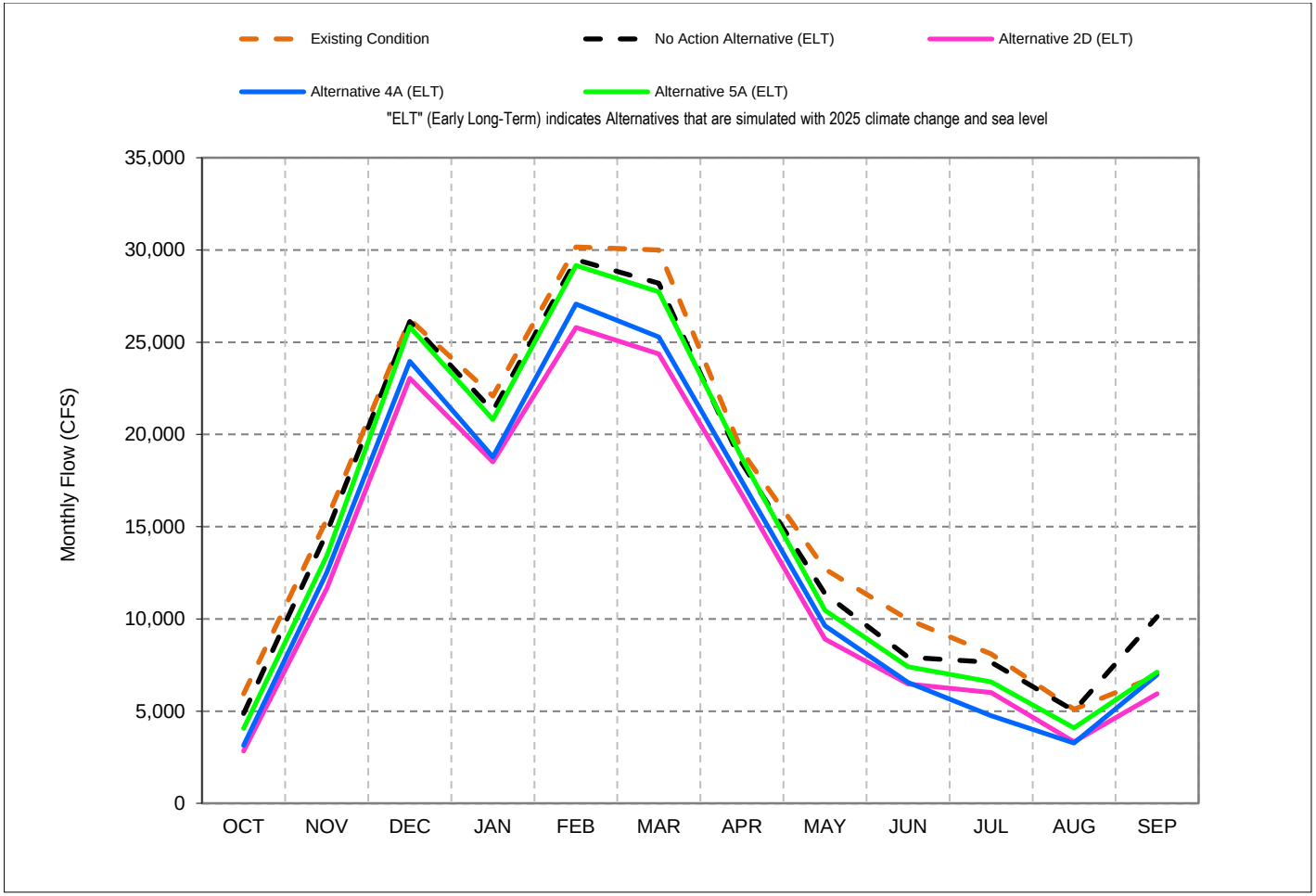
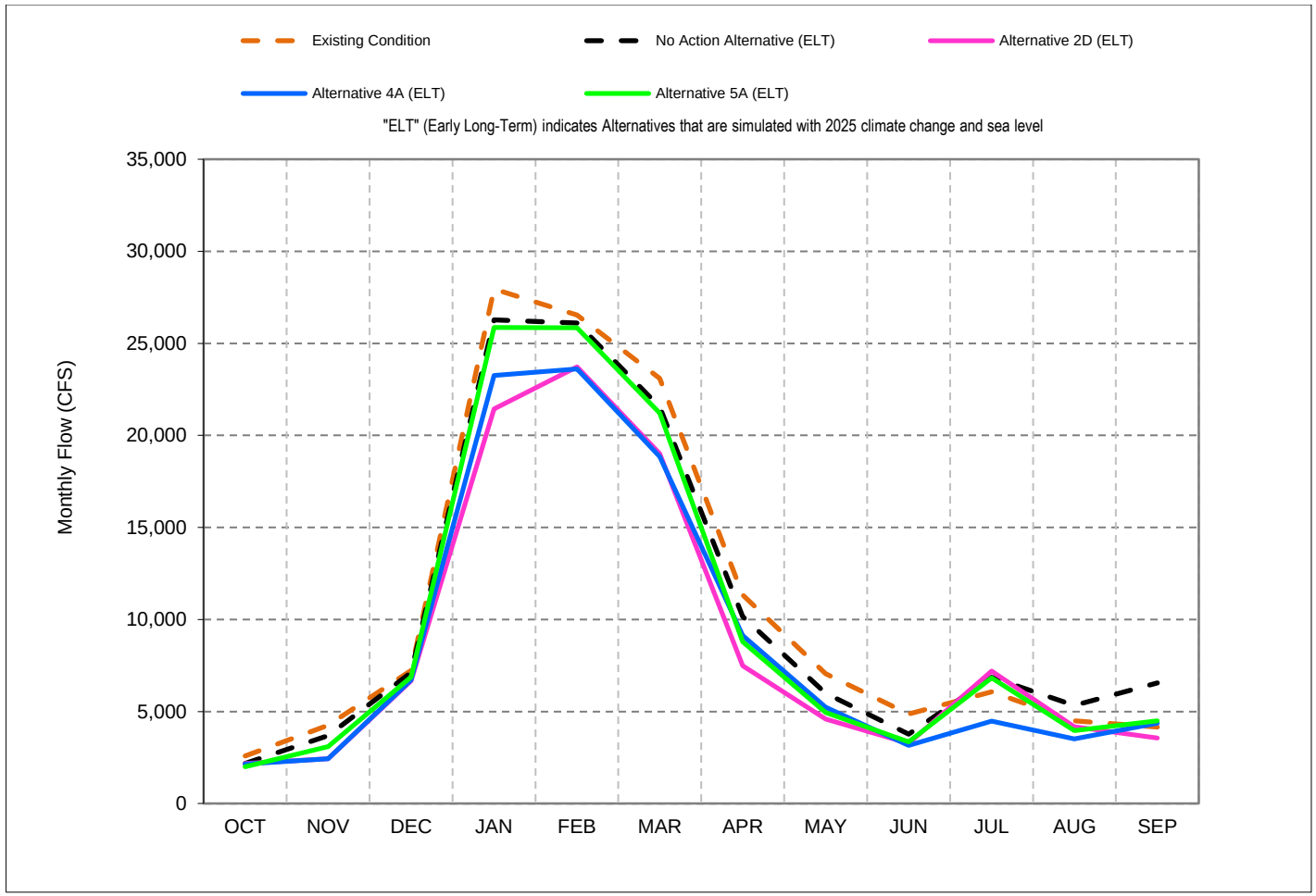


Figure C-64-1. Sutter and Steamboat Slough, Long-Term Average Flow



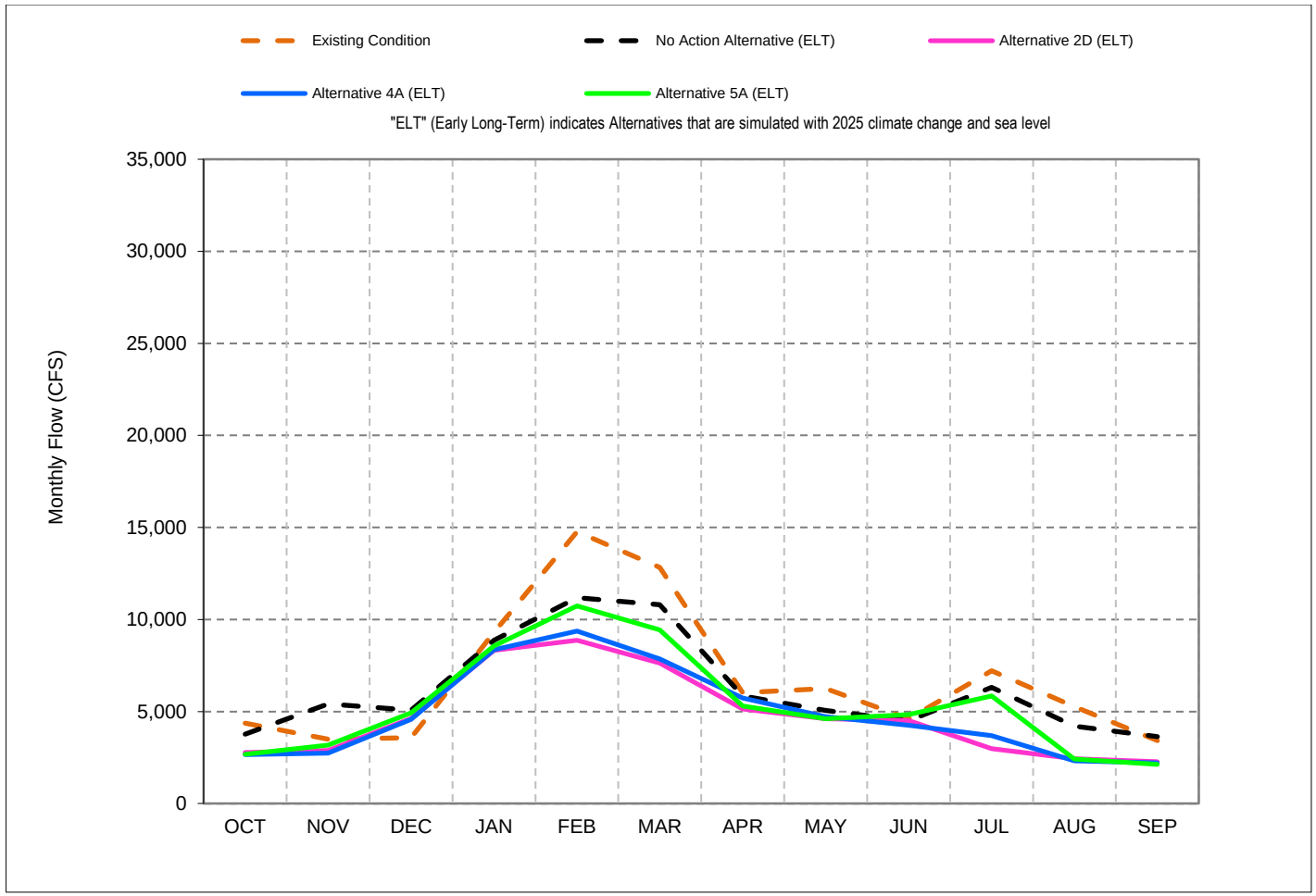
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-64-2. Sutter and Steamboat Slough, Wet Year* Average Flow



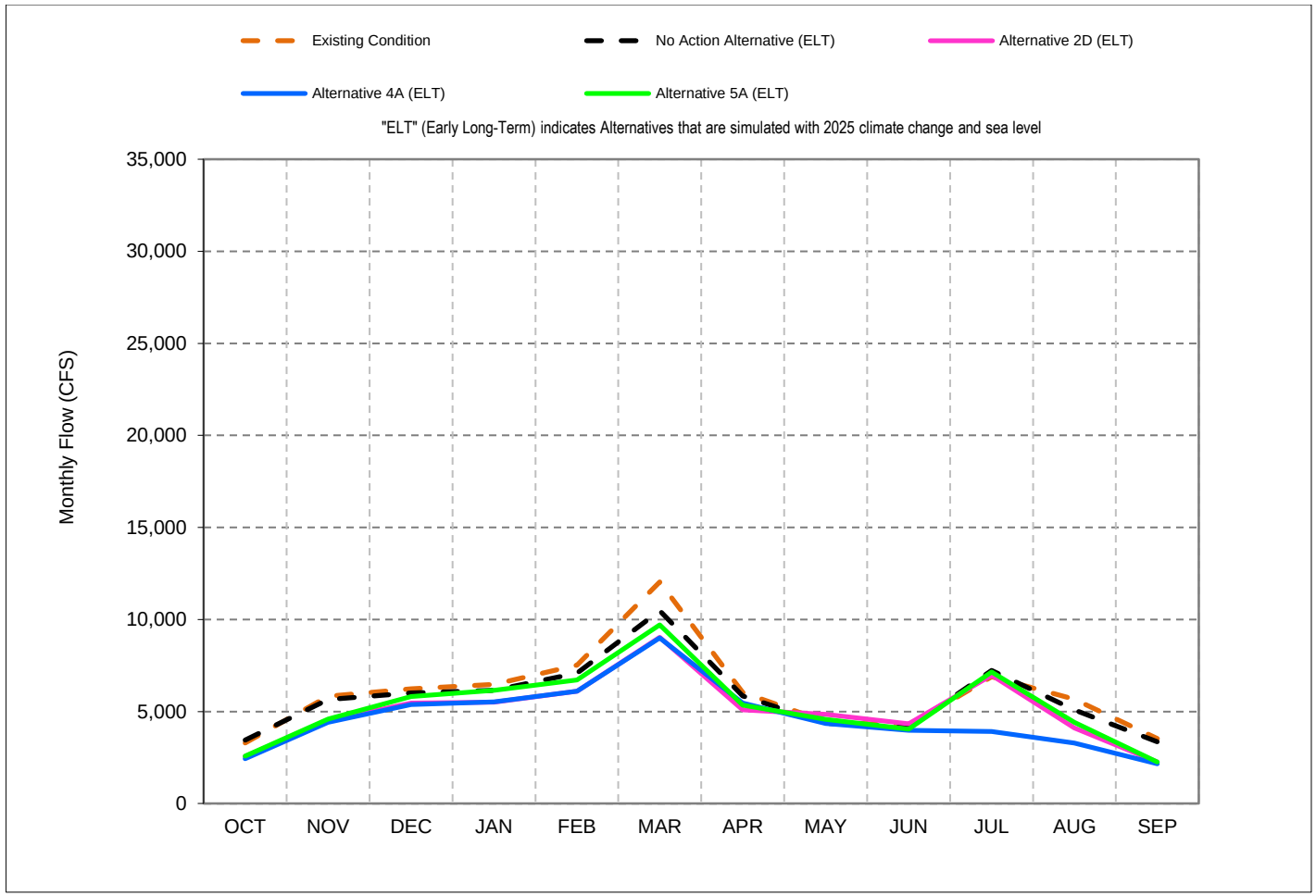
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-64-3. Sutter and Steamboat Slough, Above Normal Year* Average



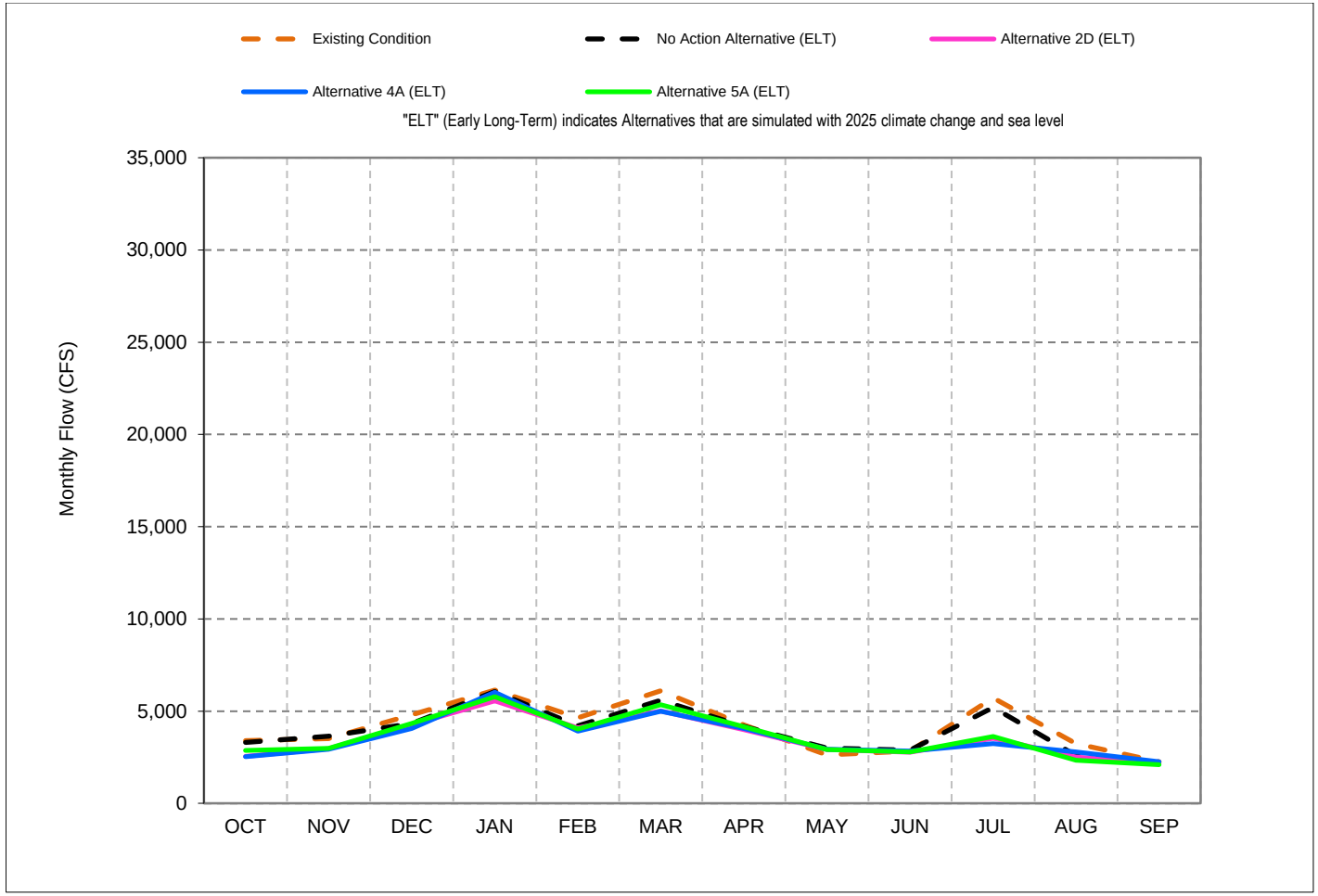
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-64-4. Sutter and Steamboat Slough, Below Normal Year* Average



*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-64-5. Sutter and Steamboat Slough, Dry Year* Average Flow



*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Figure C-64-6. Sutter and Steamboat Slough, Critical Year* Average Flow

Table C-64-1. Sutter and Steamboat Slough, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	7,316	16,211	30,278	27,972	34,467	32,221	21,322	11,503	6,749	7,955	6,214	6,064
20%	4,375	13,021	10,134	22,825	31,987	25,460	9,694	6,247	4,615	7,212	5,672	4,336
30%	3,839	5,857	7,896	17,005	17,872	20,608	7,920	5,725	4,312	7,064	5,295	4,222
40%	3,432	3,968	7,015	9,630	14,771	15,312	6,018	5,282	4,257	6,846	5,217	3,846
50%	3,269	3,727	6,220	9,430	10,305	12,649	5,787	4,568	4,130	6,845	4,500	3,392
60%	3,117	3,499	5,672	7,901	6,226	11,704	5,150	4,207	3,818	6,704	4,127	3,300
70%	2,739	3,378	4,776	5,692	5,554	8,334	4,814	3,512	3,709	6,408	3,895	2,903
80%	2,484	3,151	3,962	5,228	5,422	6,058	4,570	2,944	2,762	5,446	3,648	2,173
90%	2,113	2,517	3,579	4,196	3,345	4,168	3,801	2,449	2,651	4,975	2,892	2,140
Long Term												
Full Simulation Period[a]	3,970	7,156	10,749	13,133	15,109	16,103	9,407	6,382	5,330	6,746	4,600	4,046
Water Year Types[b]												
Wet (31%)	5,950	15,389	26,240	22,079	30,162	29,992	19,094	12,707	9,971	8,097	5,103	6,907
Above Normal (25%)	2,589	4,259	7,233	27,951	26,532	23,098	11,330	7,047	4,864	6,070	4,503	4,154
Below Normal (6%)	4,375	3,496	3,582	9,313	14,771	12,839	6,018	6,247	4,615	7,212	5,264	3,423
Dry (13%)	3,295	5,834	6,231	6,471	7,523	12,038	6,044	4,454	4,221	6,891	5,678	3,525
Critical (25%)	3,398	3,517	4,809	6,142	4,633	6,097	4,255	2,624	2,833	5,725	3,243	2,256

No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	6,234	13,999	29,486	26,657	33,598	29,548	19,931	10,185	5,164	8,811	5,791	9,682
20%	4,794	9,679	9,077	22,518	30,707	24,348	9,184	5,995	4,327	7,339	5,539	8,247
30%	3,956	6,156	7,665	15,883	17,671	19,155	7,642	5,086	4,282	7,034	5,374	6,556
40%	3,612	5,252	6,816	9,256	11,185	12,996	5,844	4,678	4,037	6,934	5,128	4,122
50%	3,078	4,696	6,270	8,470	9,276	11,072	5,367	4,329	3,785	6,649	4,680	3,808
60%	2,644	3,927	5,576	7,679	6,367	9,160	5,025	4,285	3,592	6,372	4,214	3,098
70%	2,503	3,659	5,021	5,711	5,222	6,816	4,588	3,559	3,157	6,140	3,183	2,245
80%	2,419	2,667	3,815	5,205	4,246	5,332	4,300	3,341	2,764	5,902	2,348	2,218
90%	2,028	2,377	3,193	4,846	3,449	3,951	4,093	2,525	2,731	4,910	2,274	2,042
Long Term												
Full Simulation Period[a]	3,625	7,021	10,597	12,590	14,421	14,784	9,013	5,933	4,669	6,595	4,269	5,078
Water Year Types[b]												
Wet (31%)	4,877	14,672	26,122	21,272	29,472	28,194	18,449	11,361	7,925	7,655	5,027	10,123
Above Normal (25%)	2,184	3,691	7,121	26,276	26,109	21,550	10,159	5,989	3,776	6,855	5,333	6,556
Below Normal (6%)	3,779	5,417	5,076	8,871	11,185	10,809	5,844	5,054	4,494	6,312	4,214	3,639
Dry (13%)	3,447	5,659	6,012	6,155	7,094	10,478	5,841	4,362	4,130	7,224	5,091	3,357
Critical (25%)	3,311	3,641	4,341	6,062	4,214	5,588	4,178	3,000	2,888	5,198	2,591	2,116

No Action Alternative (ELT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,082	-2,213	-792	-1,314	-868	-2,674	-1,391	-1,318	-1,585	856	-423	3,618
20%	419	-3,343	-1,057	-307	-1,280	-1,112	-510	-253	-289	127	-133	3,912
30%	116	299	-231	-1,121	-201	-1,453	-278	-639	-29	-30	79	2,334
40%	180	1,283	-198	-374	-3,585	-2,317	-175	-604	-219	89	-90	276
50%	-192	969	51	-960	-1,029	-1,577	-420	-239	-344	-196	180	416
60%	-473	428	-96	-222	141	-2,544	-125	78	-226	-332	88	-202
70%	-236	281	245	19	-332	-1,519	-226	47	-551	-267	-712	-658
80%	-65	-484	-147	-23	-1,177	-726	-270	397	2	457	-1,300	46
90%	-85	-140	-386	649	105	-217	292	76	80	-65	-618	-98
Long Term												
Full Simulation Period[a]	-345	-135	-151	-542	-688	-1,319	-394	-449	-660	-150	-331	1,032
Water Year Types[b]												
Wet (31%)	-1,074	-717	-118	-806	-690	-1,798	-645	-1,346	-2,046	-442	-76	3,216
Above Normal (25%)	-405	-568	-112	-1,676	-423	-1,548	-1,171	-1,059	-1,088	786	830	2,403
Below Normal (6%)	-596	1,921	1,493	-443	-3,585	-2,029	-175	-1,193	-121	-900	-1,050	215
Dry (13%)	152	-175	-219	-315	-429	-1,560	-204	-92	-91	334	-587	-168
Critical (25%)	-87	125	-468	-80	-419	-509	-78	376	56	-528	-651	-141

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-64-2. Sutter and Steamboat Slough, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	7,316	16,211	30,278	27,972	34,467	32,221	21,322	11,503	6,749	7,955	6,214	6,064
20%	4,375	13,021	10,134	22,825	31,987	25,460	9,694	6,247	4,615	7,212	5,672	4,336
30%	3,839	5,857	7,896	17,005	17,872	20,608	7,920	5,725	4,312	7,064	5,295	4,222
40%	3,432	3,968	7,015	9,630	14,771	15,312	6,018	5,282	4,257	6,846	5,217	3,846
50%	3,269	3,727	6,220	9,430	10,305	12,649	5,787	4,568	4,130	6,845	4,500	3,392
60%	3,117	3,499	5,672	7,901	6,226	11,704	5,150	4,207	3,818	6,704	4,127	3,300
70%	2,739	3,378	4,776	5,692	5,554	8,334	4,814	3,512	3,709	6,408	3,895	2,903
80%	2,484	3,151	3,962	5,228	5,422	6,058	4,570	2,944	2,762	5,446	3,648	2,173
90%	2,113	2,517	3,579	4,196	3,345	4,168	3,801	2,449	2,651	4,975	2,892	2,140
Long Term												
Full Simulation Period[a]	3,970	7,156	10,749	13,133	15,109	16,103	9,407	6,382	5,330	6,746	4,600	4,046
Water Year Types[b]												
Wet (31%)	5,950	15,389	26,240	22,079	30,162	29,992	19,094	12,707	9,971	8,097	5,103	6,907
Above Normal (25%)	2,589	4,259	7,233	27,951	26,532	23,098	11,330	7,047	4,864	6,070	4,503	4,154
Below Normal (6%)	4,375	3,496	3,582	9,313	14,771	12,839	6,018	6,247	4,615	7,212	5,264	3,423
Dry (13%)	3,295	5,834	6,231	6,471	7,523	12,038	6,044	4,454	4,221	6,891	5,678	3,525
Critical (25%)	3,398	3,517	4,809	6,142	4,633	6,097	4,255	2,624	2,833	5,725	3,243	2,256

Alternative 2D (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,034	10,845	25,106	23,239	30,143	25,879	17,468	7,542	4,799	8,110	5,179	5,957
20%	2,911	8,686	8,327	19,612	27,047	21,612	7,446	4,932	4,513	7,278	3,615	4,888
30%	2,768	4,109	7,385	12,761	13,880	16,924	5,621	4,833	4,174	6,487	3,342	3,559
40%	2,704	2,982	6,070	8,228	8,870	9,080	5,145	4,601	3,991	5,957	2,902	2,350
50%	2,660	2,848	5,501	7,355	7,706	8,245	4,563	4,370	3,646	5,418	2,703	2,255
60%	2,606	2,704	4,845	6,558	5,758	7,597	4,504	3,843	3,456	4,322	2,621	2,231
70%	2,534	2,700	4,643	5,385	4,736	5,776	4,469	3,554	2,949	3,719	2,576	2,215
80%	2,335	2,686	4,460	4,729	4,284	4,988	4,049	3,046	2,727	3,342	2,484	2,179
90%	2,117	2,405	3,082	4,402	3,390	3,774	3,924	2,401	2,558	2,961	2,368	2,129
Long Term												
Full Simulation Period[a]	2,594	5,446	9,587	10,941	12,776	12,773	7,967	5,213	4,261	5,440	3,319	3,307
Water Year Types[b]												
Wet (31%)	2,839	11,632	23,054	18,508	25,800	24,364	16,740	8,897	6,476	6,013	3,331	5,937
Above Normal (25%)	2,181	2,432	6,675	21,438	23,729	19,014	7,490	4,598	3,278	7,205	4,183	3,559
Below Normal (6%)	2,780	2,882	4,627	8,319	8,870	7,638	5,145	4,601	4,513	2,985	2,443	2,274
Dry (13%)	2,561	4,511	5,458	5,514	6,110	9,037	5,095	4,854	4,339	6,978	4,103	2,259
Critical (25%)	2,554	2,965	4,272	5,556	4,092	5,019	4,001	2,921	2,769	3,534	2,512	2,148

Alternative 2D (ELT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-4,282	-5,366	-5,171	-4,733	-4,323	-6,343	-3,854	-3,962	-1,950	155	-1,035	-107
20%	-1,464	-4,335	-1,808	-3,213	-4,940	-3,848	-2,248	-1,315	-103	66	-2,056	552
30%	-1,072	-1,749	-511	-4,244	-3,992	-3,684	-2,299	-892	-138	-577	-1,953	-663
40%	-728	-986	-945	-1,402	-5,901	-6,233	-874	-680	-266	-889	-2,315	-1,496
50%	-609	-879	-718	-2,075	-2,599	-4,404	-1,224	-198	-483	-1,427	-1,797	-1,137
60%	-510	-794	-827	-1,343	-468	-4,106	-647	-364	-362	-2,382	-1,506	-1,069
70%	-205	-678	-132	-307	-818	-2,558	-344	42	-760	-2,688	-1,319	-688
80%	-149	-465	498	-499	-1,139	-1,070	-521	102	-36	-2,104	-1,164	7
90%	4	-112	-497	206	45	-394	122	-47	-93	-2,014	-524	-11
Long Term												
Full Simulation Period[a]	-1,376	-1,709	-1,162	-2,192	-2,333	-3,330	-1,440	-1,169	-1,068	-1,306	-1,281	-739
Water Year Types[b]												
Wet (31%)	-3,112	-3,757	-3,186	-3,571	-4,363	-5,628	-2,354	-3,811	-3,495	-2,084	-1,771	-970
Above Normal (25%)	-407	-1,827	-558	-6,514	-2,804	-4,084	-3,840	-2,449	-1,586	1,135	-320	-595
Below Normal (6%)	-1,595	-615	1,044	-995	-5,901	-5,200	-874	-1,646	-103	-4,226	-2,822	-1,150
Dry (13%)	-734	-1,323	-773	-956	-1,413	-3,001	-949	399	119	88	-1,575	-1,266
Critical (25%)	-843	-551	-537	-586	-542	-1,079	-254	297	-63	-2,191	-730	-109

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-64-3. Sutter and Steamboat Slough, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	7,316	16,211	30,278	27,972	34,467	32,221	21,322	11,503	6,749	7,955	6,214	6,064
20%	4,375	13,021	10,134	22,825	31,987	25,460	9,694	6,247	4,615	7,212	5,672	4,336
30%	3,839	5,857	7,896	17,005	17,872	20,608	7,920	5,725	4,312	7,064	5,295	4,222
40%	3,432	3,968	7,015	9,630	14,771	15,312	6,018	5,282	4,257	6,846	5,217	3,846
50%	3,269	3,727	6,220	9,430	10,305	12,649	5,787	4,568	4,130	6,845	4,500	3,392
60%	3,117	3,499	5,672	7,901	6,226	11,704	5,150	4,207	3,818	6,704	4,127	3,300
70%	2,739	3,378	4,776	5,692	5,554	8,334	4,814	3,512	3,709	6,408	3,895	2,903
80%	2,484	3,151	3,962	5,228	5,422	6,058	4,570	2,944	2,762	5,446	3,648	2,173
90%	2,113	2,517	3,579	4,196	3,345	4,168	3,801	2,449	2,651	4,975	2,892	2,140
Long Term												
Full Simulation Period[a]	3,970	7,156	10,749	13,133	15,109	16,103	9,407	6,382	5,330	6,746	4,600	4,046
Water Year Types[b]												
Wet (31%)	5,950	15,389	26,240	22,079	30,162	29,992	19,094	12,707	9,971	8,097	5,103	6,907
Above Normal (25%)	2,589	4,259	7,233	27,951	26,532	23,098	11,330	7,047	4,864	6,070	4,503	4,154
Below Normal (6%)	4,375	3,496	3,582	9,313	14,771	12,839	6,018	6,247	4,615	7,212	5,264	3,423
Dry (13%)	3,295	5,834	6,231	6,471	7,523	12,038	6,044	4,454	4,221	6,891	5,678	3,525
Critical (25%)	3,398	3,517	4,809	6,142	4,633	6,097	4,255	2,624	2,833	5,725	3,243	2,256

Alternative 4A (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,182	11,618	26,962	23,786	31,079	27,444	18,196	8,646	4,293	4,692	3,609	7,130
20%	2,875	8,413	8,056	19,228	27,862	21,524	8,748	5,672	4,261	4,438	3,521	5,582
30%	2,660	4,005	7,320	13,934	15,089	16,850	6,991	4,760	3,983	4,075	3,480	4,363
40%	2,654	2,993	6,386	8,360	9,378	9,603	5,741	4,717	3,708	3,942	3,165	2,458
50%	2,615	2,745	5,636	8,197	7,676	8,578	5,130	4,409	3,657	3,795	3,061	2,277
60%	2,588	2,724	4,619	6,725	5,941	7,544	4,757	3,793	3,289	3,695	2,831	2,214
70%	2,479	2,709	4,403	5,329	4,692	5,704	4,409	3,344	3,080	3,547	2,808	2,201
80%	2,150	2,639	3,988	4,712	4,253	4,955	4,026	3,025	2,786	3,432	2,720	2,190
90%	2,064	2,371	3,074	4,509	3,165	3,752	3,930	2,487	2,692	3,242	2,489	2,137
Long Term												
Full Simulation Period[a]	2,622	5,626	9,730	11,390	13,055	12,978	8,499	5,361	4,183	3,974	3,099	3,676
Water Year Types[b]												
Wet (31%)	3,137	12,510	23,956	18,789	27,063	25,279	17,462	9,631	6,559	4,759	3,274	6,975
Above Normal (25%)	2,149	2,439	6,717	23,253	23,615	18,856	9,125	5,234	3,154	4,486	3,520	4,363
Below Normal (6%)	2,663	2,737	4,572	8,360	9,378	7,854	5,741	4,717	4,261	3,695	2,331	2,214
Dry (13%)	2,443	4,418	5,378	5,524	6,110	9,005	5,465	4,347	3,976	3,911	3,294	2,168
Critical (25%)	2,533	2,936	4,067	6,025	3,914	4,989	4,057	2,935	2,845	3,248	2,788	2,261

Alternative 4A (ELT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-4,134	-4,593	-3,316	-4,186	-3,387	-4,777	-3,127	-2,858	-2,456	-3,263	-2,605	1,065
20%	-1,500	-4,609	-2,078	-3,597	-4,125	-3,936	-946	-575	-354	-2,774	-2,151	1,246
30%	-1,179	-1,852	-576	-3,071	-2,783	-3,758	-929	-965	-329	-2,990	-1,814	141
40%	-778	-975	-629	-1,270	-5,392	-5,709	-278	-565	-549	-2,904	-2,053	-1,388
50%	-655	-982	-583	-1,233	-2,629	-4,071	-656	-160	-473	-3,050	-1,440	-1,115
60%	-528	-775	-1,053	-1,176	-285	-4,159	-393	-415	-529	-3,009	-1,295	-1,086
70%	-260	-669	-373	-363	-862	-2,630	-405	-168	-628	-2,861	-1,086	-702
80%	-334	-511	26	-516	-1,170	-1,103	-543	81	24	-2,014	-928	17
90%	-49	-146	-505	313	-180	-416	129	38	41	-1,733	-403	-3
Long Term												
Full Simulation Period[a]	-1,348	-1,530	-1,019	-1,743	-2,054	-3,125	-908	-1,021	-1,146	-2,771	-1,502	-370
Water Year Types[b]												
Wet (31%)	-2,813	-2,879	-2,284	-3,290	-3,099	-4,713	-1,632	-3,077	-3,412	-3,339	-1,829	68
Above Normal (25%)	-440	-1,820	-516	-4,699	-2,917	-4,242	-2,205	-1,814	-1,711	-1,583	-983	210
Below Normal (6%)	-1,712	-760	990	-954	-5,392	-4,985	-278	-1,530	-354	-3,517	-2,933	-1,209
Dry (13%)	-852	-1,416	-853	-947	-1,413	-3,033	-579	-108	-245	-2,980	-2,384	-1,357
Critical (25%)	-864	-580	-742	-117	-719	-1,108	-199	311	12	-2,477	-455	5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-64-4. Sutter and Steamboat Slough, Monthly Flow

Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	7,316	16,211	30,278	27,972	34,467	32,221	21,322	11,503	6,749	7,955	6,214	6,064
20%	4,375	13,021	10,134	22,825	31,987	25,460	9,694	6,247	4,615	7,212	5,672	4,336
30%	3,839	5,857	7,896	17,005	17,872	20,608	7,920	5,725	4,312	7,064	5,295	4,222
40%	3,432	3,968	7,015	9,630	14,771	15,312	6,018	5,282	4,257	6,846	5,217	3,846
50%	3,269	3,727	6,220	9,430	10,305	12,649	5,787	4,568	4,130	6,845	4,500	3,392
60%	3,117	3,499	5,672	7,901	6,226	11,704	5,150	4,207	3,818	6,704	4,127	3,300
70%	2,739	3,378	4,776	5,692	5,554	8,334	4,814	3,512	3,709	6,408	3,895	2,903
80%	2,484	3,151	3,962	5,228	5,422	6,058	4,570	2,944	2,762	5,446	3,648	2,173
90%	2,113	2,517	3,579	4,196	3,345	4,168	3,801	2,449	2,651	4,975	2,892	2,140
Long Term												
Full Simulation Period[a]	3,970	7,156	10,749	13,133	15,109	16,103	9,407	6,382	5,330	6,746	4,600	4,046
Water Year Types[b]												
Wet (31%)	5,950	15,389	26,240	22,079	30,162	29,992	19,094	12,707	9,971	8,097	5,103	6,907
Above Normal (25%)	2,589	4,259	7,233	27,951	26,532	23,098	11,330	7,047	4,864	6,070	4,503	4,154
Below Normal (6%)	4,375	3,496	3,582	9,313	14,771	12,839	6,018	6,247	4,615	7,212	5,264	3,423
Dry (13%)	3,295	5,834	6,231	6,471	7,523	12,038	6,044	4,454	4,221	6,891	5,678	3,525
Critical (25%)	3,398	3,517	4,809	6,142	4,633	6,097	4,255	2,624	2,833	5,725	3,243	2,256

Alternative 5A (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,876	12,712	29,277	26,553	33,426	30,603	19,826	9,149	4,723	8,121	5,438	7,069
20%	2,903	9,038	8,502	21,980	30,981	24,674	7,989	5,723	4,382	7,244	5,054	5,814
30%	2,684	4,282	7,585	15,379	16,785	18,118	6,479	4,816	4,146	7,069	4,159	4,501
40%	2,683	3,487	6,214	8,574	10,744	11,579	5,297	4,612	3,790	6,918	3,489	2,393
50%	2,613	3,126	6,056	7,861	8,471	9,951	4,910	3,977	3,729	6,135	2,881	2,236
60%	2,549	2,949	5,472	7,088	6,032	8,286	4,721	3,730	3,444	5,710	2,559	2,233
70%	2,489	2,776	4,937	5,832	4,861	6,229	4,564	3,620	2,959	5,320	2,427	2,185
80%	2,422	2,687	4,066	5,619	4,099	5,198	4,422	3,117	2,858	3,271	2,389	2,126
90%	2,062	2,401	3,093	4,895	3,637	3,934	3,871	2,422	2,622	2,636	2,286	2,065
Long Term												
Full Simulation Period[a]	2,976	6,018	10,433	12,316	14,129	14,274	8,742	5,582	4,457	5,791	3,505	3,700
Water Year Types[b]												
Wet (31%)	4,059	13,415	25,825	20,811	29,153	27,733	18,714	10,472	7,402	6,594	4,094	7,120
Above Normal (25%)	2,000	3,093	6,880	25,870	25,842	21,212	8,789	4,945	3,359	6,834	3,963	4,504
Below Normal (6%)	2,683	3,173	4,937	8,574	10,744	9,430	5,297	4,612	4,830	5,846	2,425	2,126
Dry (13%)	2,587	4,587	5,812	6,152	6,721	9,710	5,341	4,570	4,041	7,156	4,418	2,264
Critical (25%)	2,870	2,983	4,337	5,779	4,028	5,350	4,157	2,927	2,798	3,629	2,336	2,105

Alternative 5A (ELT) minus Existing Condition

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-2,440	-3,500	-1,001	-1,418	-1,041	-1,619	-1,496	-2,354	-2,026	166	-776	1,005
20%	-1,472	-3,984	-1,632	-844	-1,005	-786	-1,705	-525	-233	32	-618	1,478
30%	-1,155	-1,575	-311	-1,626	-1,087	-2,489	-1,442	-909	-166	5	-1,135	278
40%	-749	-481	-800	-1,056	-4,027	-3,733	-721	-670	-467	72	-1,728	-1,453
50%	-657	-600	-164	-1,569	-1,834	-2,698	-877	-591	-401	-710	-1,620	-1,156
60%	-568	-550	-201	-812	-194	-3,417	-430	-478	-374	-994	-1,567	-1,067
70%	-250	-602	161	140	-693	-2,105	-250	108	-749	-1,088	-1,468	-718
80%	-62	-463	104	391	-1,324	-860	-147	173	95	-2,175	-1,260	-47
90%	-51	-116	-486	699	292	-234	70	-26	-29	-2,339	-606	-75
Long Term												
Full Simulation Period[a]	-994	-1,138	-316	-816	-980	-1,829	-664	-800	-873	-954	-1,095	-346
Water Year Types[b]												
Wet (31%)	-1,892	-1,973	-415	-1,267	-1,009	-2,259	-380	-2,235	-2,569	-1,503	-1,008	213
Above Normal (25%)	-589	-1,166	-353	-2,081	-691	-1,886	-2,542	-2,102	-1,506	764	-540	350
Below Normal (6%)	-1,692	-323	1,355	-739	-4,027	-3,409	-721	-1,635	215	-1,366	-2,840	-1,297
Dry (13%)	-708	-1,247	-419	-318	-802	-2,328	-703	116	-180	265	-1,260	-1,260
Critical (25%)	-528	-534	-472	-363	-606	-747	-99	304	-35	-2,096	-907	-151

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-64-5. Sutter and Steamboat Slough, Monthly Flow

No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	6,234	13,999	29,486	26,657	33,598	29,548	19,931	10,185	5,164	8,811	5,791	9,682
20%	4,794	9,679	9,077	22,518	30,707	24,348	9,184	5,995	4,327	7,339	5,539	8,247
30%	3,956	6,156	7,665	15,883	17,671	19,155	7,642	5,086	4,282	7,034	5,374	6,556
40%	3,612	5,252	6,816	9,256	11,185	12,996	5,844	4,678	4,037	6,934	5,128	4,122
50%	3,078	4,696	6,270	8,470	9,276	11,072	5,367	4,329	3,785	6,649	4,680	3,808
60%	2,644	3,927	5,576	7,679	6,367	9,160	5,025	4,285	3,592	6,372	4,214	3,098
70%	2,503	3,659	5,021	5,711	5,222	6,816	4,588	3,559	3,157	6,140	3,183	2,245
80%	2,419	2,667	3,815	5,205	4,246	5,332	4,300	3,341	2,764	5,902	2,348	2,218
90%	2,028	2,377	3,193	4,846	3,449	3,951	4,093	2,525	2,731	4,910	2,274	2,042
Long Term												
Full Simulation Period[a]	3,625	7,021	10,597	12,590	14,421	14,784	9,013	5,933	4,669	6,595	4,269	5,078
Water Year Types[b]												
Wet (31%)	4,877	14,672	26,122	21,272	29,472	28,194	18,449	11,361	7,925	7,655	5,027	10,123
Above Normal (25%)	2,184	3,691	7,121	26,276	26,109	21,550	10,159	5,989	3,776	6,855	5,333	6,556
Below Normal (6%)	3,779	5,417	5,076	8,871	11,185	10,809	5,844	5,054	4,494	6,312	4,214	3,639
Dry (13%)	3,447	5,659	6,012	6,155	7,094	10,478	5,841	4,362	4,130	7,224	5,091	3,357
Critical (25%)	3,311	3,641	4,341	6,062	4,214	5,588	4,178	3,000	2,888	5,198	2,591	2,116

Alternative 2D (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,034	10,845	25,106	23,239	30,143	25,879	17,468	7,542	4,799	8,110	5,179	5,957
20%	2,911	8,686	8,327	19,612	27,047	21,612	7,446	4,932	4,513	7,278	3,615	4,888
30%	2,768	4,109	7,385	12,761	13,880	16,924	5,621	4,833	4,174	6,487	3,342	3,559
40%	2,704	2,982	6,070	8,228	8,870	9,080	5,145	4,601	3,991	5,957	2,902	2,350
50%	2,660	2,848	5,501	7,355	7,706	8,245	4,563	4,370	3,646	5,418	2,703	2,255
60%	2,606	2,704	4,845	6,558	5,758	7,597	4,504	3,843	3,456	4,322	2,621	2,231
70%	2,534	2,700	4,643	5,385	4,736	5,776	4,469	3,554	2,949	3,719	2,576	2,215
80%	2,335	2,686	4,460	4,729	4,284	4,988	4,049	3,046	2,727	3,342	2,484	2,179
90%	2,117	2,405	3,082	4,402	3,390	3,774	3,924	2,401	2,558	2,961	2,368	2,129
Long Term												
Full Simulation Period[a]	2,594	5,446	9,587	10,941	12,776	12,773	7,967	5,213	4,261	5,440	3,319	3,307
Water Year Types[b]												
Wet (31%)	2,839	11,632	23,054	18,508	25,800	24,364	16,740	8,897	6,476	6,013	3,331	5,937
Above Normal (25%)	2,181	2,432	6,675	21,438	23,729	19,014	7,490	4,598	3,278	7,205	4,183	3,559
Below Normal (6%)	2,780	2,882	4,627	8,319	8,870	7,638	5,145	4,601	4,513	2,985	2,443	2,274
Dry (13%)	2,561	4,511	5,458	5,514	6,110	9,037	5,095	4,854	4,339	6,978	4,103	2,259
Critical (25%)	2,554	2,965	4,272	5,556	4,092	5,019	4,001	2,921	2,769	3,534	2,512	2,148

Alternative 2D (ELT) minus No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-3,200	-3,153	-4,380	-3,419	-3,455	-3,669	-2,463	-2,644	-366	-701	-612	-3,725
20%	-1,883	-992	-750	-2,906	-3,660	-2,736	-1,738	-1,062	186	-61	-1,923	-3,359
30%	-1,188	-2,048	-280	-3,122	-3,791	-2,231	-2,021	-253	-109	-547	-2,032	-2,997
40%	-908	-2,269	-747	-1,028	-2,316	-3,916	-699	-76	-47	-977	-2,226	-1,772
50%	-418	-1,847	-769	-1,115	-1,570	-2,827	-805	41	-139	-1,231	-1,977	-1,553
60%	-38	-1,222	-731	-1,121	-608	-1,563	-522	-442	-136	-2,050	-1,594	-867
70%	31	-959	-377	-326	-486	-1,039	-119	-4	-209	-2,421	-607	-30
80%	-84	19	645	-476	38	-343	-251	-295	-37	-2,560	136	-39
90%	89	28	-111	-444	-60	-176	-170	-123	-173	-1,949	94	87
Long Term												
Full Simulation Period[a]	-1,030	-1,574	-1,011	-1,649	-1,645	-2,011	-1,046	-720	-408	-1,156	-950	-1,771
Water Year Types[b]												
Wet (31%)	-2,038	-3,040	-3,068	-2,765	-3,672	-3,830	-1,709	-2,464	-1,449	-1,642	-1,696	-4,186
Above Normal (25%)	-3	-1,259	-446	-4,838	-2,381	-2,536	-2,669	-1,391	-498	349	-1,151	-2,997
Below Normal (6%)	-999	-2,535	-449	-552	-2,316	-3,171	-699	-453	18	-3,326	-1,772	-1,365
Dry (13%)	-887	-1,148	-554	-641	-984	-1,441	-746	492	210	-246	-988	-1,098
Critical (25%)	-757	-676	-69	-507	-123	-569	-176	-79	-119	-1,663	-79	32

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-64-6. Sutter and Steamboat Slough, Monthly Flow

No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	6,234	13,999	29,486	26,657	33,598	29,548	19,931	10,185	5,164	8,811	5,791	9,682
20%	4,794	9,679	9,077	22,518	30,707	24,348	9,184	5,995	4,327	7,339	5,539	8,247
30%	3,956	6,156	7,665	15,883	17,671	19,155	7,642	5,086	4,282	7,034	5,374	6,556
40%	3,612	5,252	6,816	9,256	11,185	12,996	5,844	4,678	4,037	6,934	5,128	4,122
50%	3,078	4,696	6,270	8,470	9,276	11,072	5,367	4,329	3,785	6,649	4,680	3,808
60%	2,644	3,927	5,576	7,679	6,367	9,160	5,025	4,285	3,592	6,372	4,214	3,098
70%	2,503	3,659	5,021	5,711	5,222	6,816	4,588	3,559	3,157	6,140	3,183	2,245
80%	2,419	2,667	3,815	5,205	4,246	5,332	4,300	3,341	2,764	5,902	2,348	2,218
90%	2,028	2,377	3,193	4,846	3,449	3,951	4,093	2,525	2,731	4,910	2,274	2,042
Long Term												
Full Simulation Period[a]	3,625	7,021	10,597	12,590	14,421	14,784	9,013	5,933	4,669	6,595	4,269	5,078
Water Year Types[b]												
Wet (31%)	4,877	14,672	26,122	21,272	29,472	28,194	18,449	11,361	7,925	7,655	5,027	10,123
Above Normal (25%)	2,184	3,691	7,121	26,276	26,109	21,550	10,159	5,989	3,776	6,855	5,333	6,556
Below Normal (6%)	3,779	5,417	5,076	8,871	11,185	10,809	5,844	5,054	4,494	6,312	4,214	3,639
Dry (13%)	3,447	5,659	6,012	6,155	7,094	10,478	5,841	4,362	4,130	7,224	5,091	3,357
Critical (25%)	3,311	3,641	4,341	6,062	4,214	5,588	4,178	3,000	2,888	5,198	2,591	2,116

Alternative 4A (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,182	11,618	26,962	23,786	31,079	27,444	18,196	8,646	4,293	4,692	3,609	7,130
20%	2,875	8,413	8,056	19,228	27,862	21,524	8,748	5,672	4,261	4,438	3,521	5,582
30%	2,660	4,005	7,320	13,934	15,089	16,850	6,991	4,760	3,983	4,075	3,480	4,363
40%	2,654	2,993	6,386	8,360	9,378	9,603	5,741	4,717	3,708	3,942	3,165	2,458
50%	2,615	2,745	5,636	8,197	7,676	8,578	5,130	4,409	3,657	3,795	3,061	2,277
60%	2,588	2,724	4,619	6,725	5,941	7,544	4,757	3,793	3,289	3,695	2,831	2,214
70%	2,479	2,709	4,403	5,329	4,692	5,704	4,409	3,344	3,080	3,547	2,808	2,201
80%	2,150	2,639	3,988	4,712	4,253	4,955	4,026	3,025	2,786	3,432	2,720	2,190
90%	2,064	2,371	3,074	4,509	3,165	3,752	3,930	2,487	2,692	3,242	2,489	2,137
Long Term												
Full Simulation Period[a]	2,622	5,626	9,730	11,390	13,055	12,978	8,499	5,361	4,183	3,974	3,099	3,676
Water Year Types[b]												
Wet (31%)	3,137	12,510	23,956	18,789	27,063	25,279	17,462	9,631	6,559	4,759	3,274	6,975
Above Normal (25%)	2,149	2,439	6,717	23,253	23,615	18,856	9,125	5,234	3,154	4,486	3,520	4,363
Below Normal (6%)	2,663	2,737	4,572	8,360	9,378	7,854	5,741	4,717	4,261	3,695	2,331	2,214
Dry (13%)	2,443	4,418	5,378	5,524	6,110	9,005	5,465	4,347	3,976	3,911	3,294	2,168
Critical (25%)	2,533	2,936	4,067	6,025	3,914	4,989	4,057	2,935	2,845	3,248	2,788	2,261

Alternative 4A (ELT) minus No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-3,052	-2,381	-2,524	-2,872	-2,519	-2,104	-1,736	-1,539	-871	-4,119	-2,182	-2,553
20%	-1,919	-1,266	-1,021	-3,290	-2,845	-2,824	-436	-322	-65	-2,901	-2,017	-2,666
30%	-1,295	-2,151	-345	-1,949	-2,582	-2,305	-651	-326	-300	-2,960	-1,893	-2,193
40%	-958	-2,258	-430	-896	-1,807	-3,393	-103	40	-329	-2,992	-1,963	-1,664
50%	-463	-1,951	-634	-273	-1,601	-2,494	-237	79	-129	-2,854	-1,619	-1,531
60%	-56	-1,203	-957	-954	-425	-1,615	-268	-493	-303	-2,677	-1,383	-884
70%	-24	-950	-618	-382	-529	-1,112	-179	-215	-77	-2,594	-375	-45
80%	-268	-28	173	-493	7	-377	-273	-317	22	-2,471	372	-28
90%	36	-6	-119	-337	-284	-199	-163	-38	-39	-1,668	215	96
Long Term												
Full Simulation Period[a]	-1,003	-1,395	-868	-1,200	-1,366	-1,806	-514	-572	-486	-2,621	-1,170	-1,402
Water Year Types[b]												
Wet (31%)	-1,739	-2,162	-2,165	-2,483	-2,409	-2,915	-987	-1,730	-1,366	-2,896	-1,753	-3,148
Above Normal (25%)	-36	-1,252	-404	-3,023	-2,494	-2,695	-1,034	-755	-623	-2,369	-1,813	-2,193
Below Normal (6%)	-1,115	-2,680	-504	-511	-1,807	-2,955	-103	-337	-233	-2,617	-1,883	-1,424
Dry (13%)	-1,004	-1,241	-634	-632	-983	-1,473	-375	-15	-154	-3,314	-1,797	-1,189
Critical (25%)	-778	-705	-274	-37	-300	-599	-121	-65	-44	-1,949	196	145

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-64-7. Sutter and Steamboat Slough, Monthly Flow

No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	6,234	13,999	29,486	26,657	33,598	29,548	19,931	10,185	5,164	8,811	5,791	9,682
20%	4,794	9,679	9,077	22,518	30,707	24,348	9,184	5,995	4,327	7,339	5,539	8,247
30%	3,956	6,156	7,665	15,883	17,671	19,155	7,642	5,086	4,282	7,034	5,374	6,556
40%	3,612	5,252	6,816	9,256	11,185	12,996	5,844	4,678	4,037	6,934	5,128	4,122
50%	3,078	4,696	6,270	8,470	9,276	11,072	5,367	4,329	3,785	6,649	4,680	3,808
60%	2,644	3,927	5,576	7,679	6,367	9,160	5,025	4,285	3,592	6,372	4,214	3,098
70%	2,503	3,659	5,021	5,711	5,222	6,816	4,588	3,559	3,157	6,140	3,183	2,245
80%	2,419	2,667	3,815	5,205	4,246	5,332	4,300	3,341	2,764	5,902	2,348	2,218
90%	2,028	2,377	3,193	4,846	3,449	3,951	4,093	2,525	2,731	4,910	2,274	2,042
Long Term												
Full Simulation Period[a]	3,625	7,021	10,597	12,590	14,421	14,784	9,013	5,933	4,669	6,595	4,269	5,078
Water Year Types[b]												
Wet (31%)	4,877	14,672	26,122	21,272	29,472	28,194	18,449	11,361	7,925	7,655	5,027	10,123
Above Normal (25%)	2,184	3,691	7,121	26,276	26,109	21,550	10,159	5,989	3,776	6,855	5,333	6,556
Below Normal (6%)	3,779	5,417	5,076	8,871	11,185	10,809	5,844	5,054	4,494	6,312	4,214	3,639
Dry (13%)	3,447	5,659	6,012	6,155	7,094	10,478	5,841	4,362	4,130	7,224	5,091	3,357
Critical (25%)	3,311	3,641	4,341	6,062	4,214	5,588	4,178	3,000	2,888	5,198	2,591	2,116

Alternative 5A (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,876	12,712	29,277	26,553	33,426	30,603	19,826	9,149	4,723	8,121	5,438	7,069
20%	2,903	9,038	8,502	21,980	30,981	24,674	7,989	5,723	4,382	7,244	5,054	5,814
30%	2,684	4,282	7,585	15,379	16,785	18,118	6,479	4,816	4,146	7,069	4,159	4,501
40%	2,683	3,487	6,214	8,574	10,744	11,579	5,297	4,612	3,790	6,918	3,489	2,393
50%	2,613	3,126	6,056	7,861	8,471	9,951	4,910	3,977	3,729	6,135	2,881	2,236
60%	2,549	2,949	5,472	7,088	6,032	8,286	4,721	3,730	3,444	5,710	2,559	2,233
70%	2,489	2,776	4,937	5,832	4,861	6,229	4,564	3,620	2,959	5,320	2,427	2,185
80%	2,422	2,687	4,066	5,619	4,099	5,198	4,422	3,117	2,858	3,271	2,389	2,126
90%	2,062	2,401	3,093	4,895	3,637	3,934	3,871	2,422	2,622	2,636	2,286	2,065
Long Term												
Full Simulation Period[a]	2,976	6,018	10,433	12,316	14,129	14,274	8,742	5,582	4,457	5,791	3,505	3,700
Water Year Types[b]												
Wet (31%)	4,059	13,415	25,825	20,811	29,153	27,733	18,714	10,472	7,402	6,594	4,094	7,120
Above Normal (25%)	2,000	3,093	6,880	25,870	25,842	21,212	8,789	4,945	3,359	6,834	3,963	4,504
Below Normal (6%)	2,683	3,173	4,937	8,574	10,744	9,430	5,297	4,612	4,830	5,846	2,425	2,126
Dry (13%)	2,587	4,587	5,812	6,152	6,721	9,710	5,341	4,570	4,041	7,156	4,418	2,264
Critical (25%)	2,870	2,983	4,337	5,779	4,028	5,350	4,157	2,927	2,798	3,629	2,336	2,105

Alternative 5A (ELT) minus No Action Alternative (ELT)

	Monthly Flow (CFS)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,358	-1,287	-209	-104	-173	1,055	-105	-1,036	-441	-690	-353	-2,613
20%	-1,891	-641	-575	-537	274	326	-1,195	-272	55	-95	-485	-2,434
30%	-1,272	-1,874	-80	-504	-886	-1,037	-1,164	-270	-137	35	-1,214	-2,056
40%	-929	-1,764	-602	-682	-442	-1,417	-546	-66	-248	-17	-1,639	-1,729
50%	-465	-1,569	-214	-609	-805	-1,121	-457	-353	-57	-514	-1,800	-1,572
60%	-96	-978	-105	-591	-334	-873	-305	-556	-148	-662	-1,655	-866
70%	-13	-883	-84	121	-361	-586	-24	61	-198	-821	-756	-60
80%	3	20	251	414	-147	-134	122	-224	94	-2,632	40	-92
90%	35	24	-100	49	187	-16	-222	-102	-109	-2,274	13	23
Long Term												
Full Simulation Period[a]	-649	-1,003	-164	-274	-292	-510	-271	-351	-213	-804	-764	-1,378
Water Year Types[b]												
Wet (31%)	-818	-1,257	-297	-461	-319	-461	265	-889	-524	-1,061	-932	-3,003
Above Normal (25%)	-184	-598	-241	-406	-267	-338	-1,371	-1,044	-417	-21	-1,370	-2,052
Below Normal (6%)	-1,095	-2,244	-138	-297	-442	-1,379	-546	-442	336	-466	-1,789	-1,512
Dry (13%)	-861	-1,072	-200	-3	-372	-768	-499	208	-89	-68	-673	-1,093
Critical (25%)	-441	-658	-4	-284	-187	-238	-21	-72	-91	-1,569	-255	-10

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

C.65. Steamboat Slough downstream of Sutter Slough Water Surface Elevation

Table C-65-1-1. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.5	4.7	6.3	6.1	7.1	6.5	4.9	3.9	3.8	4.1	3.9	3.9
20%	3.2	4.1	3.8	5.5	6.3	5.6	3.5	3.5	3.6	3.9	3.8	3.5
30%	3.2	3.4	3.8	4.6	4.8	4.6	3.4	3.4	3.6	3.9	3.6	3.5
40%	3.2	3.3	3.8	4.0	4.1	3.9	3.2	3.4	3.5	3.9	3.6	3.4
50%	3.2	3.3	3.5	3.9	3.7	3.9	3.1	3.3	3.4	3.9	3.6	3.4
60%	3.2	3.3	3.5	3.6	3.4	3.7	3.1	3.3	3.4	3.8	3.6	3.4
70%	3.1	3.2	3.4	3.5	3.3	3.3	3.1	3.2	3.4	3.8	3.5	3.3
80%	3.0	3.1	3.3	3.3	3.3	3.1	3.0	3.1	3.3	3.7	3.5	3.2
90%	3.0	3.0	3.2	3.2	3.1	2.9	2.9	3.0	3.3	3.6	3.5	3.2
Long Term												
Full Simulation Period[a]	3.2	3.6	4.1	4.3	4.5	4.3	3.6	3.5	3.6	3.9	3.6	3.5
Water Year Types[b]												
Wet (31%)	3.5	4.6	5.9	5.3	6.4	6.2	4.8	4.1	4.1	4.1	3.9	3.9
Above Normal (25%)	3.0	3.1	3.6	6.1	6.0	5.1	3.6	3.5	3.4	3.7	3.6	3.3
Below Normal (6%)	3.2	3.2	3.1	4.0	4.3	3.8	3.1	3.3	3.3	3.6	3.5	3.2
Dry (13%)	3.1	3.3	3.5	3.5	3.4	3.7	3.2	3.3	3.5	3.9	3.7	3.4
Critical (25%)	3.2	3.3	3.5	3.4	3.2	3.1	3.0	3.0	3.3	3.8	3.5	3.3

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.9	4.9	6.5	6.3	7.3	6.4	5.2	4.3	4.2	4.6	4.3	4.6
20%	3.8	4.3	4.3	5.7	6.4	5.8	3.9	3.9	4.1	4.5	4.2	4.2
30%	3.7	3.9	4.2	5.0	5.1	4.9	3.8	3.9	4.0	4.4	4.2	4.0
40%	3.6	3.8	4.2	4.3	4.3	4.2	3.7	3.8	3.9	4.4	4.1	3.9
50%	3.6	3.8	4.0	4.3	4.1	4.1	3.6	3.8	3.9	4.3	4.1	3.9
60%	3.6	3.8	3.9	4.1	3.8	3.9	3.6	3.7	3.9	4.3	4.1	3.9
70%	3.5	3.7	3.9	4.0	3.8	3.7	3.5	3.7	3.8	4.3	4.0	3.8
80%	3.5	3.6	3.7	3.9	3.7	3.5	3.5	3.6	3.8	4.1	3.9	3.8
90%	3.5	3.5	3.7	3.7	3.6	3.4	3.4	3.5	3.8	4.1	3.8	3.7
Long Term												
Full Simulation Period[a]	3.7	4.1	4.5	4.7	4.8	4.6	4.0	3.9	4.0	4.3	4.1	4.0
Water Year Types[b]												
Wet (31%)	3.9	5.0	6.3	5.6	6.6	6.4	5.1	4.4	4.4	4.6	4.3	4.6
Above Normal (25%)	3.5	3.6	4.1	6.2	6.3	5.3	4.0	3.9	3.8	4.2	4.1	4.0
Below Normal (6%)	3.6	3.8	3.7	4.4	4.3	4.1	3.6	3.7	3.8	4.0	3.9	3.8
Dry (13%)	3.7	3.8	4.0	4.0	3.9	4.1	3.6	3.8	4.0	4.4	4.2	3.9
Critical (25%)	3.7	3.7	3.9	3.9	3.7	3.5	3.5	3.6	3.8	4.2	3.9	3.8

No Action Alternative (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.4	0.2	0.2	0.2	0.2	**0.0**	0.3	0.4	0.4	0.5	0.5	0.8
20%	0.5	0.2	0.4	0.3	0.1	0.2	0.4	0.4	0.5	0.5	0.4	0.7
30%	0.5	0.5	0.5	0.4	0.3	0.2	0.4	0.5	0.5	0.5	0.5	0.5
40%	0.4	0.5	0.5	0.3	0.3	0.3	0.5	0.4	0.4	0.5	0.5	0.5
50%	0.4	0.5	0.4	0.4	0.4	0.3	0.5	0.5	0.5	0.5	0.5	0.5
60%	0.4	0.5	0.5	0.5	0.4	0.2	0.5	0.4	0.5	0.5	0.5	0.5
70%	0.5	0.5	0.4	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.6
80%	0.5	0.5	0.5	0.6	0.5	0.4	0.5	0.5	0.5	0.4	0.5	0.5
90%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5
Long Term												
Full Simulation Period[a]	0.5	0.5	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.5	0.5	0.5
Water Year Types[b]												
Wet (31%)	0.4	0.4	0.4	0.3	0.3	0.1	0.3	0.3	0.3	0.5	0.5	0.7
Above Normal (25%)	0.5	0.5	0.5	0.1	0.3	0.2	0.4	0.4	0.4	0.5	0.6	0.7
Below Normal (6%)	0.5	0.6	0.6	0.4	0.1	0.3	0.5	0.4	0.5	0.4	0.4	0.5
Dry (13%)	0.5	0.5	0.5	0.5	0.4	0.3	0.5	0.5	0.5	0.5	0.4	0.5
Critical (25%)	0.5	0.5	0.4	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.4	0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

Table C-65-1-2. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.5	4.7	6.3	6.1	7.1	6.5	4.9	3.9	3.8	4.1	3.9	3.9
20%	3.2	4.1	3.8	5.5	6.3	5.6	3.5	3.5	3.6	3.9	3.8	3.5
30%	3.2	3.4	3.8	4.6	4.8	4.6	3.4	3.4	3.6	3.9	3.6	3.5
40%	3.2	3.3	3.8	4.0	4.1	3.9	3.2	3.4	3.5	3.9	3.6	3.4
50%	3.2	3.3	3.5	3.9	3.7	3.9	3.1	3.3	3.4	3.9	3.6	3.4
60%	3.2	3.3	3.5	3.6	3.4	3.7	3.1	3.3	3.4	3.8	3.6	3.4
70%	3.1	3.2	3.4	3.5	3.3	3.3	3.1	3.2	3.4	3.8	3.5	3.3
80%	3.0	3.1	3.3	3.3	3.3	3.1	3.0	3.1	3.3	3.7	3.5	3.2
90%	3.0	3.0	3.2	3.2	3.1	2.9	2.9	3.0	3.3	3.6	3.5	3.2
Long Term												
Full Simulation Period[a]	3.2	3.6	4.1	4.3	4.5	4.3	3.6	3.5	3.6	3.9	3.6	3.5
Water Year Types[b]												
Wet (31%)	3.5	4.6	5.9	5.3	6.4	6.2	4.8	4.1	4.1	4.1	3.9	3.9
Above Normal (25%)	3.0	3.1	3.6	6.1	6.0	5.1	3.6	3.5	3.4	3.7	3.6	3.3
Below Normal (6%)	3.2	3.2	3.1	4.0	4.3	3.8	3.1	3.3	3.3	3.6	3.5	3.2
Dry (13%)	3.1	3.3	3.5	3.5	3.4	3.7	3.2	3.3	3.5	3.9	3.7	3.4
Critical (25%)	3.2	3.3	3.5	3.4	3.2	3.1	3.0	3.0	3.3	3.8	3.5	3.3

Alternative 2D (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.8	4.7	6.0	5.7	6.9	5.9	4.9	4.2	4.2	4.5	4.2	4.4
20%	3.7	4.2	4.2	5.3	5.8	5.5	3.8	4.0	4.1	4.3	4.1	4.1
30%	3.6	3.8	4.2	4.8	4.7	4.6	3.7	3.8	4.0	4.3	4.1	3.8
40%	3.6	3.7	4.2	4.2	4.1	4.0	3.6	3.7	3.9	4.2	4.0	3.8
50%	3.6	3.7	4.0	4.2	4.0	3.9	3.5	3.7	3.8	4.2	4.0	3.8
60%	3.5	3.6	3.9	4.0	3.8	3.8	3.5	3.7	3.8	4.1	4.0	3.8
70%	3.5	3.6	3.8	3.9	3.7	3.6	3.5	3.6	3.8	4.1	3.9	3.8
80%	3.5	3.5	3.7	3.8	3.7	3.5	3.4	3.6	3.7	4.0	3.8	3.7
90%	3.5	3.4	3.6	3.7	3.5	3.4	3.3	3.4	3.7	3.9	3.7	3.6
Long Term												
Full Simulation Period[a]	3.6	3.9	4.4	4.5	4.6	4.4	3.9	3.8	4.0	4.2	4.0	3.9
Water Year Types[b]												
Wet (31%)	3.8	4.7	5.8	5.3	6.2	5.9	4.9	4.2	4.3	4.4	4.2	4.4
Above Normal (25%)	3.4	3.5	4.0	5.6	6.0	5.0	3.8	3.8	3.7	4.1	4.0	3.8
Below Normal (6%)	3.5	3.6	3.7	4.3	4.1	3.9	3.5	3.6	3.8	3.9	3.8	3.6
Dry (13%)	3.6	3.7	3.9	3.9	3.8	3.9	3.5	3.8	4.0	4.3	4.0	3.7
Critical (25%)	3.6	3.7	3.8	3.9	3.6	3.4	3.4	3.5	3.8	4.1	3.9	3.7

Alternative 2D (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.3	**0.0**	**-0.3**	**-0.4**	**-0.3**	**-0.6**	0.0	0.3	0.4	0.4	0.3	0.5
20%	0.4	0.1	0.4	**-0.2**	**-0.5**	**-0.1**	0.3	0.4	0.5	0.4	0.3	0.6
30%	0.4	0.4	0.4	0.2	**-0.1**	**0.0**	0.3	0.4	0.4	0.4	0.4	0.4
40%	0.4	0.4	0.4	0.2	0.0	0.1	0.4	0.3	0.4	0.3	0.4	0.4
50%	0.4	0.4	0.4	0.3	0.3	0.0	0.4	0.4	0.4	0.3	0.4	0.4
60%	0.4	0.4	0.4	0.4	0.3	0.1	0.4	0.4	0.4	0.3	0.4	0.4
70%	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.3	0.4	0.5
80%	0.5	0.4	0.4	0.5	0.4	0.4	0.4	0.5	0.4	0.3	0.3	0.5
90%	0.5	0.4	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.4
Long Term												
Full Simulation Period[a]	0.4	0.3	0.3	0.2	0.2	0.1	0.3	0.3	0.4	0.3	0.4	0.4
Water Year Types[b]												
Wet (31%)	0.3	0.1	**-0.1**	**0.0**	**-0.2**	**-0.4**	0.1	0.1	0.2	0.3	0.3	0.5
Above Normal (25%)	0.4	0.4	0.4	**-0.5**	0.0	**-0.1**	0.2	0.3	0.3	0.5	0.4	0.5
Below Normal (6%)	0.4	0.5	0.5	0.4	**-0.2**	0.1	0.4	0.3	0.5	0.3	0.3	0.4
Dry (13%)	0.4	0.4	0.4	0.4	0.4	0.2	0.4	0.5	0.5	0.4	0.3	0.4
Critical (25%)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.3	0.4	0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-65-1-3. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.5	4.7	6.3	6.1	7.1	6.5	4.9	3.9	3.8	4.1	3.9	3.9
20%	3.2	4.1	3.8	5.5	6.3	5.6	3.5	3.5	3.6	3.9	3.8	3.5
30%	3.2	3.4	3.8	4.6	4.8	4.6	3.4	3.4	3.6	3.9	3.6	3.5
40%	3.2	3.3	3.8	4.0	4.1	3.9	3.2	3.4	3.5	3.9	3.6	3.4
50%	3.2	3.3	3.5	3.9	3.7	3.9	3.1	3.3	3.4	3.9	3.6	3.4
60%	3.2	3.3	3.5	3.6	3.4	3.7	3.1	3.3	3.4	3.8	3.6	3.4
70%	3.1	3.2	3.4	3.5	3.3	3.3	3.1	3.2	3.4	3.8	3.5	3.3
80%	3.0	3.1	3.3	3.3	3.3	3.1	3.0	3.1	3.3	3.7	3.5	3.2
90%	3.0	3.0	3.2	3.2	3.1	2.9	2.9	3.0	3.3	3.6	3.5	3.2
Long Term												
Full Simulation Period[a]	3.2	3.6	4.1	4.3	4.5	4.3	3.6	3.5	3.6	3.9	3.6	3.5
Water Year Types[b]												
Wet (31%)	3.5	4.6	5.9	5.3	6.4	6.2	4.8	4.1	4.1	4.1	3.9	3.9
Above Normal (25%)	3.0	3.1	3.6	6.1	6.0	5.1	3.6	3.5	3.4	3.7	3.6	3.3
Below Normal (6%)	3.2	3.2	3.1	4.0	4.3	3.8	3.1	3.3	3.3	3.6	3.5	3.2
Dry (13%)	3.1	3.3	3.5	3.5	3.4	3.7	3.2	3.3	3.5	3.9	3.7	3.4
Critical (25%)	3.2	3.3	3.5	3.4	3.2	3.1	3.0	3.0	3.3	3.8	3.5	3.3

Alternative 4A (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.9	4.8	6.3	5.9	7.0	6.2	5.1	4.3	4.2	4.5	4.3	4.5
20%	3.7	4.3	4.3	5.5	6.1	5.5	3.9	3.9	4.2	4.4	4.2	4.2
30%	3.7	3.8	4.2	4.9	4.9	4.6	3.8	3.8	4.0	4.3	4.2	3.9
40%	3.7	3.8	4.2	4.3	4.2	4.1	3.7	3.8	4.0	4.3	4.2	3.9
50%	3.6	3.7	4.0	4.2	4.0	4.0	3.6	3.8	3.9	4.2	4.1	3.9
60%	3.6	3.7	3.9	4.1	3.8	3.9	3.5	3.7	3.9	4.2	4.1	3.8
70%	3.6	3.7	3.9	4.0	3.8	3.7	3.5	3.6	3.9	4.1	4.0	3.8
80%	3.6	3.5	3.7	3.8	3.7	3.5	3.5	3.6	3.8	4.1	3.8	3.7
90%	3.6	3.4	3.7	3.8	3.6	3.4	3.4	3.5	3.8	4.0	3.8	3.7
Long Term												
Full Simulation Period[a]	3.7	4.0	4.5	4.6	4.7	4.5	3.9	3.8	4.0	4.2	4.1	4.0
Water Year Types[b]												
Wet (31%)	3.9	4.9	6.0	5.4	6.3	6.0	5.0	4.3	4.4	4.5	4.3	4.5
Above Normal (25%)	3.5	3.6	4.1	5.9	6.1	5.0	3.9	3.8	3.8	4.1	4.1	3.9
Below Normal (6%)	3.6	3.7	3.7	4.4	4.2	4.0	3.6	3.7	3.8	4.0	3.8	3.7
Dry (13%)	3.6	3.7	4.0	3.9	3.8	4.0	3.6	3.8	4.1	4.3	4.1	3.8
Critical (25%)	3.6	3.7	3.9	3.9	3.7	3.5	3.5	3.6	3.8	4.1	3.9	3.8

Alternative 4A (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.4	0.1	**0.0**	**-0.1**	**-0.1**	**-0.3**	0.1	0.4	0.4	0.4	0.4	0.6
20%	0.5	0.1	0.4	0.0	**-0.2**	**0.0**	0.4	0.4	0.6	0.4	0.3	0.7
30%	0.5	0.4	0.5	0.2	0.1	**0.0**	0.4	0.4	0.5	0.4	0.5	0.5
40%	0.5	0.4	0.5	0.3	0.1	0.2	0.4	0.4	0.5	0.4	0.5	0.4
50%	0.4	0.4	0.5	0.3	0.3	0.1	0.5	0.5	0.5	0.4	0.5	0.5
60%	0.4	0.4	0.4	0.5	0.4	0.1	0.4	0.4	0.5	0.4	0.5	0.5
70%	0.5	0.5	0.4	0.5	0.5	0.4	0.4	0.5	0.5	0.4	0.4	0.5
80%	0.5	0.5	0.5	0.6	0.5	0.4	0.5	0.5	0.5	0.4	0.4	0.5
90%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.5
Long Term												
Full Simulation Period[a]	0.5	0.4	0.4	0.3	0.2	0.1	0.4	0.4	0.4	0.4	0.4	0.5
Water Year Types[b]												
Wet (31%)	0.4	0.3	0.1	0.1	**0.0**	**-0.2**	0.2	0.2	0.2	0.4	0.5	0.6
Above Normal (25%)	0.5	0.4	0.5	**-0.2**	0.0	**-0.1**	0.3	0.4	0.4	0.5	0.5	0.6
Below Normal (6%)	0.4	0.5	0.6	0.4	**-0.1**	0.1	0.5	0.4	0.5	0.4	0.4	0.4
Dry (13%)	0.5	0.4	0.5	0.4	0.4	0.2	0.4	0.5	0.5	0.4	0.4	0.4
Critical (25%)	0.5	0.5	0.4	0.5	0.4	0.4	0.5	0.5	0.5	0.3	0.5	0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-65-1-4. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.5	4.7	6.3	6.1	7.1	6.5	4.9	3.9	3.8	4.1	3.9	3.9
20%	3.2	4.1	3.8	5.5	6.3	5.6	3.5	3.5	3.6	3.9	3.8	3.5
30%	3.2	3.4	3.8	4.6	4.8	4.6	3.4	3.4	3.6	3.9	3.6	3.5
40%	3.2	3.3	3.8	4.0	4.1	3.9	3.2	3.4	3.5	3.9	3.6	3.4
50%	3.2	3.3	3.5	3.9	3.7	3.9	3.1	3.3	3.4	3.9	3.6	3.4
60%	3.2	3.3	3.5	3.6	3.4	3.7	3.1	3.3	3.4	3.8	3.6	3.4
70%	3.1	3.2	3.4	3.5	3.3	3.3	3.1	3.2	3.4	3.8	3.5	3.3
80%	3.0	3.1	3.3	3.3	3.3	3.1	3.0	3.1	3.3	3.7	3.5	3.2
90%	3.0	3.0	3.2	3.2	3.1	2.9	2.9	3.0	3.3	3.6	3.5	3.2
Long Term												
Full Simulation Period[a]	3.2	3.6	4.1	4.3	4.5	4.3	3.6	3.5	3.6	3.9	3.6	3.5
Water Year Types[b]												
Wet (31%)	3.5	4.6	5.9	5.3	6.4	6.2	4.8	4.1	4.1	4.1	3.9	3.9
Above Normal (25%)	3.0	3.1	3.6	6.1	6.0	5.1	3.6	3.5	3.4	3.7	3.6	3.3
Below Normal (6%)	3.2	3.2	3.1	4.0	4.3	3.8	3.1	3.3	3.3	3.6	3.5	3.2
Dry (13%)	3.1	3.3	3.5	3.5	3.4	3.7	3.2	3.3	3.5	3.9	3.7	3.4
Critical (25%)	3.2	3.3	3.5	3.4	3.2	3.1	3.0	3.0	3.3	3.8	3.5	3.3

Alternative 5A (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.8	4.8	6.5	6.2	7.3	6.5	5.2	4.3	4.1	4.5	4.2	4.4
20%	3.7	4.2	4.2	5.7	6.4	5.8	3.9	3.9	4.1	4.4	4.1	4.0
30%	3.6	3.8	4.2	4.9	5.0	4.7	3.8	3.8	4.0	4.4	4.1	3.8
40%	3.6	3.7	4.2	4.2	4.3	4.1	3.6	3.7	3.9	4.3	4.0	3.8
50%	3.5	3.7	3.9	4.2	4.0	4.0	3.5	3.7	3.9	4.2	4.0	3.8
60%	3.5	3.6	3.9	4.0	3.8	3.8	3.5	3.6	3.8	4.2	4.0	3.8
70%	3.5	3.6	3.8	3.9	3.7	3.7	3.5	3.6	3.8	4.1	4.0	3.8
80%	3.5	3.5	3.7	3.9	3.7	3.5	3.4	3.6	3.7	4.0	3.9	3.7
90%	3.5	3.4	3.7	3.6	3.6	3.4	3.3	3.4	3.7	4.0	3.7	3.6
Long Term												
Full Simulation Period[a]	3.6	3.9	4.5	4.6	4.8	4.5	3.9	3.8	4.0	4.2	4.0	3.9
Water Year Types[b]												
Wet (31%)	3.8	4.8	6.2	5.5	6.6	6.3	5.1	4.3	4.3	4.5	4.2	4.4
Above Normal (25%)	3.4	3.5	4.0	6.1	6.3	5.2	3.9	3.8	3.7	4.2	4.0	3.8
Below Normal (6%)	3.5	3.6	3.7	4.3	4.3	4.0	3.5	3.6	3.8	4.0	3.7	3.6
Dry (13%)	3.6	3.7	3.9	3.9	3.8	4.0	3.5	3.8	4.0	4.3	4.1	3.7
Critical (25%)	3.6	3.7	3.9	3.9	3.6	3.5	3.4	3.5	3.8	4.1	3.8	3.7

Alternative 5A (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.3	0.1	0.2	0.1	0.2	0.0	0.2	0.3	0.3	0.4	0.3	0.5
20%	0.4	0.1	0.4	0.2	0.1	0.2	0.3	0.4	0.5	0.5	0.3	0.6
30%	0.4	0.4	0.4	0.3	0.2	0.1	0.4	0.4	0.4	0.5	0.4	0.4
40%	0.4	0.4	0.4	0.2	0.2	0.2	0.4	0.3	0.4	0.4	0.4	0.4
50%	0.4	0.4	0.4	0.3	0.3	0.1	0.4	0.4	0.4	0.4	0.4	0.4
60%	0.3	0.4	0.4	0.4	0.3	0.1	0.4	0.4	0.4	0.4	0.4	0.4
70%	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.5
80%	0.4	0.4	0.4	0.6	0.4	0.4	0.4	0.5	0.4	0.2	0.4	0.4
90%	0.4	0.4	0.5	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.3	0.4
Long Term												
Full Simulation Period[a]	0.4	0.3	0.4	0.3	0.3	0.2	0.4	0.4	0.4	0.4	0.4	0.4
Water Year Types[b]												
Wet (31%)	0.3	0.2	0.3	0.2	0.2	0.0	0.3	0.2	0.2	0.3	0.4	0.5
Above Normal (25%)	0.4	0.4	0.4	0.0	0.2	0.2	0.2	0.3	0.3	0.5	0.4	0.5
Below Normal (6%)	0.3	0.5	0.6	0.4	**0.0**	0.2	0.4	0.3	0.5	0.4	0.3	0.4
Dry (13%)	0.4	0.4	0.4	0.4	0.4	0.2	0.4	0.4	0.4	0.4	0.4	0.4
Critical (25%)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.3	0.4	0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-65-1-5. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Maximum Elevation

No Action Alternative (ELT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.9	4.9	6.5	6.3	7.3	6.4	5.2	4.3	4.2	4.6	4.3	4.6
20%	3.8	4.3	4.3	5.7	6.4	5.8	3.9	3.9	4.1	4.5	4.2	4.2
30%	3.7	3.9	4.2	5.0	5.1	4.9	3.8	3.9	4.0	4.4	4.2	4.0
40%	3.6	3.8	4.2	4.3	4.3	4.2	3.7	3.8	3.9	4.4	4.1	3.9
50%	3.6	3.8	4.0	4.3	4.1	4.1	3.6	3.8	3.9	4.3	4.1	3.9
60%	3.6	3.8	3.9	4.1	3.8	3.9	3.6	3.7	3.9	4.3	4.1	3.9
70%	3.5	3.7	3.9	4.0	3.8	3.7	3.5	3.7	3.8	4.3	4.0	3.8
80%	3.5	3.6	3.7	3.9	3.7	3.5	3.5	3.6	3.8	4.1	3.9	3.8
90%	3.5	3.5	3.7	3.7	3.6	3.4	3.4	3.5	3.8	4.1	3.8	3.7
Long Term												
Full Simulation Period[a]	3.7	4.1	4.5	4.7	4.8	4.6	4.0	3.9	4.0	4.3	4.1	4.0
Water Year Types[b]												
Wet (31%)	3.9	5.0	6.3	5.6	6.6	6.4	5.1	4.4	4.4	4.6	4.3	4.6
Above Normal (25%)	3.5	3.6	4.1	6.2	6.3	5.3	4.0	3.9	3.8	4.2	4.1	4.0
Below Normal (6%)	3.6	3.8	3.7	4.4	4.3	4.1	3.6	3.7	3.8	4.0	3.9	3.8
Dry (13%)	3.7	3.8	4.0	4.0	3.9	4.1	3.6	3.8	4.0	4.4	4.2	3.9
Critical (25%)	3.7	3.7	3.9	3.9	3.7	3.5	3.5	3.6	3.8	4.2	3.9	3.8

Alternative 2D (ELT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.8	4.7	6.0	5.7	6.9	5.9	4.9	4.2	4.2	4.5	4.2	4.4
20%	3.7	4.2	4.2	5.3	5.8	5.5	3.8	4.0	4.1	4.3	4.1	4.1
30%	3.6	3.8	4.2	4.8	4.7	4.6	3.7	3.8	4.0	4.3	4.1	3.8
40%	3.6	3.7	4.2	4.2	4.1	4.0	3.6	3.7	3.9	4.2	4.0	3.8
50%	3.6	3.7	4.0	4.2	4.0	3.9	3.5	3.7	3.8	4.2	4.0	3.8
60%	3.5	3.6	3.9	4.0	3.8	3.8	3.5	3.7	3.8	4.1	4.0	3.8
70%	3.5	3.6	3.8	3.9	3.7	3.6	3.5	3.6	3.8	4.1	3.9	3.8
80%	3.5	3.5	3.7	3.8	3.7	3.5	3.4	3.6	3.7	4.0	3.8	3.7
90%	3.5	3.4	3.6	3.7	3.5	3.4	3.3	3.4	3.7	3.9	3.7	3.6
Long Term												
Full Simulation Period[a]	3.6	3.9	4.4	4.5	4.6	4.4	3.9	3.8	4.0	4.2	4.0	3.9
Water Year Types[b]												
Wet (31%)	3.8	4.7	5.8	5.3	6.2	5.9	4.9	4.2	4.3	4.4	4.2	4.4
Above Normal (25%)	3.4	3.5	4.0	5.6	6.0	5.0	3.8	3.8	3.7	4.1	4.0	3.8
Below Normal (6%)	3.5	3.6	3.7	4.3	4.1	3.9	3.5	3.6	3.8	3.9	3.8	3.6
Dry (13%)	3.6	3.7	3.9	3.9	3.8	3.9	3.5	3.8	4.0	4.3	4.0	3.7
Critical (25%)	3.6	3.7	3.8	3.9	3.6	3.4	3.4	3.5	3.8	4.1	3.9	3.7

Alternative 2D (ELT) minus No Action Alternative (ELT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.1	-0.3	-0.6	-0.6	-0.5	-0.6	-0.3	-0.2	0.0	-0.1	-0.2	-0.2
20%	-0.1	-0.1	-0.1	-0.4	-0.6	-0.3	-0.2	0.0	0.0	-0.2	-0.1	-0.1
30%	-0.1	-0.1	-0.1	-0.2	-0.4	-0.3	-0.1	-0.1	0.0	-0.1	-0.1	-0.1
40%	0.0	-0.1	-0.1	-0.1	-0.2	-0.2	-0.1	-0.1	0.0	-0.2	-0.1	-0.1
50%	-0.1	-0.1	0.0	-0.1	-0.1	-0.3	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
60%	-0.1	-0.1	-0.1	-0.1	0.0	-0.1	-0.1	0.0	-0.1	-0.2	-0.1	-0.1
70%	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	-0.2	-0.1	-0.1
80%	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
90%	0.0	-0.1	-0.1	0.0	-0.1	0.0	-0.1	-0.1	-0.1	-0.2	-0.1	-0.1
Long Term												
Full Simulation Period[a]	-0.1	-0.1	-0.2	-0.2	-0.2	-0.2	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
Water Year Types[b]												
Wet (31%)	-0.1	-0.3	-0.4	-0.3	-0.5	-0.5	-0.2	-0.2	-0.1	-0.2	-0.1	-0.2
Above Normal (25%)	0.0	-0.1	-0.1	-0.6	-0.3	-0.3	-0.2	-0.1	-0.1	-0.1	-0.1	-0.2
Below Normal (6%)	-0.1	-0.2	-0.1	-0.1	-0.2	-0.2	-0.1	-0.1	0.0	-0.2	-0.1	-0.1
Dry (13%)	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	-0.1	-0.1	-0.1
Critical (25%)	-0.1	-0.1	0.0	-0.1	0.0	-0.1	-0.1	-0.1	-0.1	-0.2	-0.1	-0.1

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-65-1-6. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Maximum Elevation

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.9	4.9	6.5	6.3	7.3	6.4	5.2	4.3	4.2	4.6	4.3	4.6
20%	3.8	4.3	4.3	5.7	6.4	5.8	3.9	3.9	4.1	4.5	4.2	4.2
30%	3.7	3.9	4.2	5.0	5.1	4.9	3.8	3.9	4.0	4.4	4.2	4.0
40%	3.6	3.8	4.2	4.3	4.3	4.2	3.7	3.8	3.9	4.4	4.1	3.9
50%	3.6	3.8	4.0	4.3	4.1	4.1	3.6	3.8	3.9	4.3	4.1	3.9
60%	3.6	3.8	3.9	4.1	3.8	3.9	3.6	3.7	3.9	4.3	4.1	3.9
70%	3.5	3.7	3.9	4.0	3.8	3.7	3.5	3.7	3.8	4.3	4.0	3.8
80%	3.5	3.6	3.7	3.9	3.7	3.5	3.5	3.6	3.8	4.1	3.9	3.8
90%	3.5	3.5	3.7	3.7	3.6	3.4	3.4	3.5	3.8	4.1	3.8	3.7
Long Term												
Full Simulation Period[a]	3.7	4.1	4.5	4.7	4.8	4.6	4.0	3.9	4.0	4.3	4.1	4.0
Water Year Types[b]												
Wet (31%)	3.9	5.0	6.3	5.6	6.6	6.4	5.1	4.4	4.4	4.6	4.3	4.6
Above Normal (25%)	3.5	3.6	4.1	6.2	6.3	5.3	4.0	3.9	3.8	4.2	4.1	4.0
Below Normal (6%)	3.6	3.8	3.7	4.4	4.3	4.1	3.6	3.7	3.8	4.0	3.9	3.8
Dry (13%)	3.7	3.8	4.0	4.0	3.9	4.1	3.6	3.8	4.0	4.4	4.2	3.9
Critical (25%)	3.7	3.7	3.9	3.9	3.7	3.5	3.5	3.6	3.8	4.2	3.9	3.8

Alternative 4A (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.9	4.8	6.3	5.9	7.0	6.2	5.1	4.3	4.2	4.5	4.3	4.5
20%	3.7	4.3	4.3	5.5	6.1	5.5	3.9	3.9	4.2	4.4	4.2	4.2
30%	3.7	3.8	4.2	4.9	4.9	4.6	3.8	3.8	4.0	4.3	4.2	3.9
40%	3.7	3.8	4.2	4.3	4.2	4.1	3.7	3.8	4.0	4.3	4.2	3.9
50%	3.6	3.7	4.0	4.2	4.0	4.0	3.6	3.8	3.9	4.2	4.1	3.9
60%	3.6	3.7	3.9	4.1	3.8	3.9	3.5	3.7	3.9	4.2	4.1	3.8
70%	3.6	3.7	3.9	4.0	3.8	3.7	3.5	3.6	3.9	4.1	4.0	3.8
80%	3.6	3.5	3.7	3.8	3.7	3.5	3.5	3.6	3.8	4.1	3.8	3.7
90%	3.6	3.4	3.7	3.8	3.6	3.4	3.4	3.5	3.8	4.0	3.8	3.7
Long Term												
Full Simulation Period[a]	3.7	4.0	4.5	4.6	4.7	4.5	3.9	3.8	4.0	4.2	4.1	4.0
Water Year Types[b]												
Wet (31%)	3.9	4.9	6.0	5.4	6.3	6.0	5.0	4.3	4.4	4.5	4.3	4.5
Above Normal (25%)	3.5	3.6	4.1	5.9	6.1	5.0	3.9	3.8	3.8	4.1	4.1	3.9
Below Normal (6%)	3.6	3.7	3.7	4.4	4.2	4.0	3.6	3.7	3.8	4.0	3.8	3.7
Dry (13%)	3.6	3.7	4.0	3.9	3.8	4.0	3.6	3.8	4.1	4.3	4.1	3.8
Critical (25%)	3.6	3.7	3.9	3.9	3.7	3.5	3.5	3.6	3.8	4.1	3.9	3.8

Alternative 4A (ELT) minus No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.1	-0.1	-0.3	-0.3	-0.4	-0.3	-0.2	0.0	0.0	-0.1	-0.1	-0.2
20%	0.0	0.0	0.0	-0.3	-0.4	-0.3	-0.1	0.0	0.1	-0.1	0.0	0.0
30%	-0.1	0.0	0.0	-0.2	-0.2	-0.2	0.0	0.0	0.0	-0.1	0.0	-0.1
40%	0.1	-0.1	0.0	0.0	-0.1	-0.1	0.0	0.0	0.1	-0.1	0.0	0.0
50%	0.0	-0.1	0.0	-0.1	-0.1	-0.2	0.0	0.0	0.0	-0.1	0.0	0.0
60%	0.0	-0.1	0.0	0.1	0.0	-0.1	0.0	0.0	0.0	-0.1	0.0	0.0
70%	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	-0.1	-0.1	0.0
80%	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	0.0
90%	0.0	-0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0
Long Term												
Full Simulation Period[a]	0.0	-0.1	-0.1	-0.1	-0.1	-0.2	0.0	0.0	0.0	-0.1	0.0	-0.1
Water Year Types[b]												
Wet (31%)	0.0	-0.1	-0.2	-0.3	-0.3	-0.3	-0.1	-0.1	-0.1	-0.1	0.0	-0.1
Above Normal (25%)	0.0	0.0	0.0	-0.3	-0.3	-0.3	-0.1	0.0	0.0	-0.1	0.0	-0.1
Below Normal (6%)	0.0	-0.1	0.0	0.0	-0.1	-0.1	0.0	0.0	0.1	-0.1	-0.1	-0.1
Dry (13%)	0.0	-0.1	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	-0.1	-0.1	-0.1
Critical (25%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-65-1-7. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Maximum Elevation

No Action Alternative (ELT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.9	4.9	6.5	6.3	7.3	6.4	5.2	4.3	4.2	4.6	4.3	4.6
20%	3.8	4.3	4.3	5.7	6.4	5.8	3.9	3.9	4.1	4.5	4.2	4.2
30%	3.7	3.9	4.2	5.0	5.1	4.9	3.8	3.9	4.0	4.4	4.2	4.0
40%	3.6	3.8	4.2	4.3	4.3	4.2	3.7	3.8	3.9	4.4	4.1	3.9
50%	3.6	3.8	4.0	4.3	4.1	4.1	3.6	3.8	3.9	4.3	4.1	3.9
60%	3.6	3.8	3.9	4.1	3.8	3.9	3.6	3.7	3.9	4.3	4.1	3.9
70%	3.5	3.7	3.9	4.0	3.8	3.7	3.5	3.7	3.8	4.3	4.0	3.8
80%	3.5	3.6	3.7	3.9	3.7	3.5	3.5	3.6	3.8	4.1	3.9	3.8
90%	3.5	3.5	3.7	3.7	3.6	3.4	3.4	3.5	3.8	4.1	3.8	3.7
Long Term												
Full Simulation Period[a]	3.7	4.1	4.5	4.7	4.8	4.6	4.0	3.9	4.0	4.3	4.1	4.0
Water Year Types[b]												
Wet (31%)	3.9	5.0	6.3	5.6	6.6	6.4	5.1	4.4	4.4	4.6	4.3	4.6
Above Normal (25%)	3.5	3.6	4.1	6.2	6.3	5.3	4.0	3.9	3.8	4.2	4.1	4.0
Below Normal (6%)	3.6	3.8	3.7	4.4	4.3	4.1	3.6	3.7	3.8	4.0	3.9	3.8
Dry (13%)	3.7	3.8	4.0	4.0	3.9	4.1	3.6	3.8	4.0	4.4	4.2	3.9
Critical (25%)	3.7	3.7	3.9	3.9	3.7	3.5	3.5	3.6	3.8	4.2	3.9	3.8

Alternative 5A (ELT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.8	4.8	6.5	6.2	7.3	6.5	5.2	4.3	4.1	4.5	4.2	4.4
20%	3.7	4.2	4.2	5.7	6.4	5.8	3.9	3.9	4.1	4.4	4.1	4.0
30%	3.6	3.8	4.2	4.9	5.0	4.7	3.8	3.8	4.0	4.4	4.1	3.8
40%	3.6	3.7	4.2	4.2	4.3	4.1	3.6	3.7	3.9	4.3	4.0	3.8
50%	3.5	3.7	3.9	4.2	4.0	4.0	3.5	3.7	3.9	4.2	4.0	3.8
60%	3.5	3.6	3.9	4.0	3.8	3.8	3.5	3.6	3.8	4.2	4.0	3.8
70%	3.5	3.6	3.8	3.9	3.7	3.7	3.5	3.6	3.8	4.1	4.0	3.8
80%	3.5	3.5	3.7	3.9	3.7	3.5	3.4	3.6	3.7	4.0	3.9	3.7
90%	3.5	3.4	3.7	3.6	3.6	3.4	3.3	3.4	3.7	4.0	3.7	3.6
Long Term												
Full Simulation Period[a]	3.6	3.9	4.5	4.6	4.8	4.5	3.9	3.8	4.0	4.2	4.0	3.9
Water Year Types[b]												
Wet (31%)	3.8	4.8	6.2	5.5	6.6	6.3	5.1	4.3	4.3	4.5	4.2	4.4
Above Normal (25%)	3.4	3.5	4.0	6.1	6.3	5.2	3.9	3.8	3.7	4.2	4.0	3.8
Below Normal (6%)	3.5	3.6	3.7	4.3	4.3	4.0	3.5	3.6	3.8	4.0	3.7	3.6
Dry (13%)	3.6	3.7	3.9	3.9	3.8	4.0	3.5	3.8	4.0	4.3	4.1	3.7
Critical (25%)	3.6	3.7	3.9	3.9	3.6	3.5	3.4	3.5	3.8	4.1	3.8	3.7

Alternative 5A (ELT) minus No Action Alternative (ELT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.1	-0.1	-0.1	-0.1	-0.1	0.1	0.0	-0.1	-0.1	-0.1	-0.1	-0.2
20%	-0.1	-0.1	-0.1	0.0	0.0	0.0	-0.1	0.0	0.0	-0.1	-0.1	-0.2
30%	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	-0.1	-0.2
40%	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	-0.1	-0.1	-0.1
50%	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	-0.1	-0.1	-0.1
60%	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
70%	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	-0.1	0.0	-0.2	-0.1	-0.1
80%	0.0	-0.1	0.0	0.0	-0.1	0.0	-0.1	-0.1	-0.1	-0.2	-0.1	-0.1
90%	-0.1	-0.1	0.0	0.0	0.0	0.0	-0.1	0.0	-0.1	-0.1	-0.1	-0.1
Long Term												
Full Simulation Period[a]	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	-0.1	-0.1	-0.1	-0.1	-0.1
Water Year Types[b]												
Wet (31%)	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	-0.1	-0.1	-0.1	-0.1	-0.2
Above Normal (25%)	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.2
Below Normal (6%)	-0.1	-0.2	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	-0.1	-0.2	-0.2
Dry (13%)	-0.1	-0.1	-0.1	0.0	-0.1	-0.1	-0.1	0.0	-0.1	-0.1	-0.1	-0.1
Critical (25%)	-0.1	-0.1	0.0	-0.1	-0.1	-0.1	0.0	-0.1	-0.1	-0.2	-0.1	-0.1

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-65-2-1. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.3	1.9	4.6	4.3	5.8	5.2	2.9	0.9	0.0	0.4	0.2	0.4
20%	-0.1	1.1	0.6	3.3	4.9	3.8	0.3	-0.2	-0.3	0.2	0.1	0.0
30%	-0.2	-0.2	0.2	1.9	2.3	2.6	0.1	-0.2	-0.3	0.1	0.0	-0.1
40%	-0.3	-0.3	0.0	0.7	1.5	1.5	-0.1	-0.3	-0.3	0.1	0.0	-0.1
50%	-0.3	-0.4	-0.1	0.6	0.6	1.1	-0.2	-0.4	-0.4	0.1	0.0	-0.1
60%	-0.3	-0.4	-0.1	0.1	-0.1	1.0	-0.3	-0.4	-0.4	0.1	0.0	-0.2
70%	-0.4	-0.5	-0.2	-0.2	-0.2	0.2	-0.4	-0.5	-0.5	0.0	-0.1	-0.2
80%	-0.4	-0.6	-0.4	-0.3	-0.2	-0.3	-0.4	-0.6	-0.5	-0.1	-0.1	-0.2
90%	-0.4	-0.6	-0.6	-0.5	-0.4	-0.5	-0.6	-0.7	-0.5	-0.1	-0.2	-0.3
Long Term												
Full Simulation Period[a]	-0.2	0.2	0.8	1.3	1.8	1.9	0.5	0.0	-0.1	0.1	0.0	0.0
Water Year Types[b]												
Wet (31%)	0.1	1.8	3.8	3.0	4.8	4.8	2.4	1.1	0.8	0.5	0.2	0.5
Above Normal (25%)	-0.4	-0.3	0.1	4.3	4.1	3.3	0.8	0.0	-0.3	0.0	0.0	-0.1
Below Normal (6%)	-0.1	-0.4	-0.6	0.7	1.7	1.2	-0.1	-0.2	-0.3	0.1	0.0	-0.2
Dry (13%)	-0.4	-0.1	-0.1	-0.1	0.1	0.9	-0.2	-0.4	-0.4	0.1	0.0	-0.1
Critical (25%)	-0.3	-0.4	-0.3	-0.1	-0.3	-0.1	-0.5	-0.7	-0.5	0.0	-0.2	-0.2

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.5	1.9	4.6	4.3	5.9	4.9	2.9	1.0	0.3	0.9	0.6	1.3
20%	0.2	0.9	0.7	3.4	4.9	3.9	0.6	0.2	0.1	0.7	0.5	0.8
30%	0.2	0.3	0.5	2.1	2.4	2.6	0.5	0.1	0.1	0.6	0.5	0.6
40%	0.2	0.2	0.4	0.8	1.4	1.4	0.2	0.1	0.0	0.5	0.4	0.4
50%	0.1	0.1	0.3	0.8	0.8	1.2	0.1	0.0	0.0	0.5	0.4	0.3
60%	0.1	0.0	0.3	0.4	0.2	0.8	0.1	0.0	-0.1	0.4	0.3	0.2
70%	0.0	0.0	0.1	0.3	0.2	0.4	0.0	-0.1	-0.1	0.4	0.3	0.2
80%	0.0	-0.1	0.0	0.1	0.1	0.0	0.0	-0.2	-0.1	0.4	0.2	0.2
90%	0.0	-0.2	-0.2	-0.1	0.0	-0.1	-0.2	-0.3	-0.1	0.2	0.2	0.2
Long Term												
Full Simulation Period[a]	0.2	0.6	1.2	1.5	2.0	1.9	0.8	0.3	0.2	0.5	0.4	0.5
Water Year Types[b]												
Wet (31%)	0.4	2.0	4.1	3.2	4.9	4.7	2.6	1.2	0.8	0.8	0.5	1.3
Above Normal (25%)	0.0	0.0	0.5	4.2	4.3	3.2	1.0	0.3	0.0	0.5	0.5	0.6
Below Normal (6%)	0.2	0.2	0.0	0.9	1.4	1.2	0.2	0.1	0.1	0.3	0.3	0.2
Dry (13%)	0.1	0.2	0.2	0.2	0.4	1.0	0.1	0.0	0.0	0.5	0.4	0.3
Critical (25%)	0.1	0.0	0.1	0.3	0.1	0.2	-0.1	-0.2	-0.1	0.3	0.2	0.2

No Action Alternative (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.2	**-0.1**	0.0	**0.0**	0.1	**-0.3**	0.0	0.1	0.3	0.5	0.4	0.9
20%	0.4	**-0.2**	0.2	0.1	**0.0**	0.1	0.3	0.3	0.4	0.5	0.4	0.8
30%	0.4	0.4	0.3	0.2	0.2	0.0	0.3	0.4	0.4	0.5	0.4	0.6
40%	0.4	0.5	0.4	0.2	**-0.1**	**-0.1**	0.4	0.3	0.4	0.4	0.4	0.4
50%	0.4	0.5	0.4	0.2	0.2	0.1	0.4	0.4	0.4	0.4	0.4	0.4
60%	0.4	0.4	0.4	0.3	0.3	**-0.2**	0.4	0.4	0.3	0.4	0.4	0.4
70%	0.4	0.5	0.3	0.5	0.3	0.2	0.4	0.4	0.4	0.4	0.4	0.4
80%	0.4	0.5	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.5	0.4	0.4
90%	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.4
Long Term												
Full Simulation Period[a]	0.4	0.3	0.3	0.2	0.2	0.1	0.3	0.3	0.3	0.4	0.4	0.5
Water Year Types[b]												
Wet (31%)	0.3	0.2	0.2	0.1	0.1	**-0.1**	0.2	0.1	0.0	0.3	0.4	0.8
Above Normal (25%)	0.4	0.3	0.4	**-0.1**	0.2	**0.0**	0.1	0.3	0.3	0.5	0.5	0.7
Below Normal (6%)	0.4	0.6	0.5	0.3	**-0.3**	0.0	0.4	0.3	0.4	0.3	0.3	0.4
Dry (13%)	0.4	0.3	0.3	0.3	0.3	0.1	0.4	0.4	0.4	0.4	0.4	0.4
Critical (25%)	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.3	0.4	0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

Table C-65-2-2. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.3	1.9	4.6	4.3	5.8	5.2	2.9	0.9	0.0	0.4	0.2	0.4
20%	-0.1	1.1	0.6	3.3	4.9	3.8	0.3	-0.2	-0.3	0.2	0.1	0.0
30%	-0.2	-0.2	0.2	1.9	2.3	2.6	0.1	-0.2	-0.3	0.1	0.0	-0.1
40%	-0.3	-0.3	0.0	0.7	1.5	1.5	-0.1	-0.3	-0.3	0.1	0.0	-0.1
50%	-0.3	-0.4	-0.1	0.6	0.6	1.1	-0.2	-0.4	-0.4	0.1	0.0	-0.1
60%	-0.3	-0.4	-0.1	0.1	-0.1	1.0	-0.3	-0.4	-0.4	0.1	0.0	-0.2
70%	-0.4	-0.5	-0.2	-0.2	-0.2	0.2	-0.4	-0.5	-0.5	0.0	-0.1	-0.2
80%	-0.4	-0.6	-0.4	-0.3	-0.2	-0.3	-0.4	-0.6	-0.5	-0.1	-0.1	-0.2
90%	-0.4	-0.6	-0.6	-0.5	-0.4	-0.5	-0.6	-0.7	-0.5	-0.1	-0.2	-0.3
Long Term												
Full Simulation Period[a]	-0.2	0.2	0.8	1.3	1.8	1.9	0.5	0.0	-0.1	0.1	0.0	0.0
Water Year Types[b]												
Wet (31%)	0.1	1.8	3.8	3.0	4.8	4.8	2.4	1.1	0.8	0.5	0.2	0.5
Above Normal (25%)	-0.4	-0.3	0.1	4.3	4.1	3.3	0.8	0.0	-0.3	0.0	0.0	-0.1
Below Normal (6%)	-0.1	-0.4	-0.6	0.7	1.7	1.2	-0.1	-0.2	-0.3	0.1	0.0	-0.2
Dry (13%)	-0.4	-0.1	-0.1	-0.1	0.1	0.9	-0.2	-0.4	-0.4	0.1	0.0	-0.1
Critical (25%)	-0.3	-0.4	-0.3	-0.1	-0.3	-0.1	-0.5	-0.7	-0.5	0.0	-0.2	-0.2

Alternative 2D (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.2	1.4	4.0	3.6	5.4	4.1	2.4	0.5	0.2	0.8	0.4	0.7
20%	0.1	0.7	0.6	3.1	4.3	3.3	0.4	0.2	0.1	0.7	0.4	0.4
30%	0.1	0.1	0.5	1.8	2.1	2.3	0.3	0.1	0.1	0.6	0.4	0.3
40%	0.0	0.0	0.3	0.7	1.0	1.0	0.2	0.1	0.0	0.5	0.3	0.2
50%	0.0	0.0	0.2	0.6	0.7	0.8	0.2	0.1	0.0	0.4	0.3	0.2
60%	0.0	-0.1	0.1	0.4	0.2	0.6	0.1	0.0	0.0	0.3	0.2	0.2
70%	0.0	-0.1	0.1	0.2	0.2	0.3	0.0	-0.1	0.0	0.2	0.2	0.2
80%	-0.1	-0.2	-0.1	0.1	0.2	0.1	0.0	-0.2	-0.1	0.2	0.1	0.1
90%	-0.1	-0.2	-0.2	0.0	0.0	0.0	-0.1	-0.2	-0.1	0.0	0.1	0.1
Long Term												
Full Simulation Period[a]	0.0	0.4	1.0	1.3	1.8	1.7	0.7	0.2	0.1	0.4	0.3	0.3
Water Year Types[b]												
Wet (31%)	0.1	1.5	3.6	2.8	4.4	4.0	2.3	0.8	0.5	0.6	0.3	0.7
Above Normal (25%)	0.0	-0.1	0.4	3.5	4.0	2.8	0.6	0.2	0.0	0.6	0.3	0.2
Below Normal (6%)	0.1	-0.1	-0.1	0.8	1.0	0.8	0.2	0.1	0.0	-0.1	-0.1	0.1
Dry (13%)	-0.1	0.1	0.2	0.2	0.3	0.9	0.1	0.1	0.1	0.6	0.3	0.1
Critical (25%)	0.0	0.0	0.1	0.2	0.1	0.2	0.0	-0.2	-0.1	0.2	0.2	0.2

Alternative 2D (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.0	-0.5	-0.6	-0.7	-0.5	-1.0	-0.4	-0.4	0.2	0.4	0.2	0.3
20%	0.2	-0.4	0.0	-0.3	-0.6	-0.5	0.1	0.4	0.4	0.5	0.3	0.4
30%	0.3	0.3	0.3	-0.1	-0.2	-0.3	0.1	0.4	0.4	0.4	0.3	0.4
40%	0.3	0.3	0.3	0.0	-0.5	-0.5	0.3	0.4	0.4	0.4	0.3	0.3
50%	0.3	0.3	0.3	0.1	0.0	-0.3	0.4	0.5	0.3	0.3	0.3	0.3
60%	0.3	0.3	0.3	0.2	0.3	-0.3	0.4	0.5	0.4	0.3	0.3	0.4
70%	0.3	0.3	0.4	0.4	0.3	0.2	0.4	0.5	0.4	0.2	0.3	0.3
80%	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.4
90%	0.3	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.1	0.3	0.3
Long Term												
Full Simulation Period[a]	0.2	0.2	0.2	0.0	0.0	-0.2	0.2	0.2	0.2	0.3	0.3	0.3
Water Year Types[b]												
Wet (31%)	0.0	-0.2	-0.3	-0.3	-0.4	-0.8	-0.1	-0.3	-0.3	0.1	0.1	0.1
Above Normal (25%)	0.4	0.2	0.3	-0.8	-0.1	-0.4	-0.2	0.1	0.3	0.6	0.3	0.3
Below Normal (6%)	0.2	0.3	0.5	0.2	-0.6	-0.4	0.4	0.3	0.4	-0.2	0.0	0.3
Dry (13%)	0.3	0.2	0.3	0.3	0.2	-0.1	0.3	0.5	0.4	0.5	0.3	0.3
Critical (25%)	0.3	0.4	0.4	0.3	0.4	0.3	0.5	0.5	0.5	0.2	0.4	0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-65-2-3. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.3	1.9	4.6	4.3	5.8	5.2	2.9	0.9	0.0	0.4	0.2	0.4
20%	-0.1	1.1	0.6	3.3	4.9	3.8	0.3	-0.2	-0.3	0.2	0.1	0.0
30%	-0.2	-0.2	0.2	1.9	2.3	2.6	0.1	-0.2	-0.3	0.1	0.0	-0.1
40%	-0.3	-0.3	0.0	0.7	1.5	1.5	-0.1	-0.3	-0.3	0.1	0.0	-0.1
50%	-0.3	-0.4	-0.1	0.6	0.6	1.1	-0.2	-0.4	-0.4	0.1	0.0	-0.1
60%	-0.3	-0.4	-0.1	0.1	-0.1	1.0	-0.3	-0.4	-0.4	0.1	0.0	-0.2
70%	-0.4	-0.5	-0.2	-0.2	-0.2	0.2	-0.4	-0.5	-0.5	0.0	-0.1	-0.2
80%	-0.4	-0.6	-0.4	-0.3	-0.2	-0.3	-0.4	-0.6	-0.5	-0.1	-0.1	-0.2
90%	-0.4	-0.6	-0.6	-0.5	-0.4	-0.5	-0.6	-0.7	-0.5	-0.1	-0.2	-0.3
Long Term												
Full Simulation Period[a]	-0.2	0.2	0.8	1.3	1.8	1.9	0.5	0.0	-0.1	0.1	0.0	0.0
Water Year Types[b]												
Wet (31%)	0.1	1.8	3.8	3.0	4.8	4.8	2.4	1.1	0.8	0.5	0.2	0.5
Above Normal (25%)	-0.4	-0.3	0.1	4.3	4.1	3.3	0.8	0.0	-0.3	0.0	0.0	-0.1
Below Normal (6%)	-0.1	-0.4	-0.6	0.7	1.7	1.2	-0.1	-0.2	-0.3	0.1	0.0	-0.2
Dry (13%)	-0.4	-0.1	-0.1	-0.1	0.1	0.9	-0.2	-0.4	-0.4	0.1	0.0	-0.1
Critical (25%)	-0.3	-0.4	-0.3	-0.1	-0.3	-0.1	-0.5	-0.7	-0.5	0.0	-0.2	-0.2

Alternative 4A (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.2	1.5	4.1	3.8	5.6	4.5	2.6	0.7	0.1	0.4	0.4	0.8
20%	0.1	0.6	0.6	2.9	4.4	3.4	0.6	0.2	0.1	0.3	0.4	0.7
30%	0.0	0.0	0.5	1.8	2.1	2.2	0.5	0.2	0.0	0.2	0.3	0.3
40%	0.0	0.0	0.3	0.7	1.1	1.0	0.2	0.1	-0.1	0.2	0.3	0.3
50%	0.0	0.0	0.2	0.6	0.6	0.9	0.1	0.0	-0.1	0.1	0.2	0.3
60%	-0.1	-0.1	0.2	0.6	0.2	0.6	0.1	0.0	-0.1	0.1	0.2	0.2
70%	-0.1	-0.2	0.1	0.2	0.2	0.3	0.0	-0.1	-0.1	0.1	0.1	0.1
80%	-0.1	-0.2	-0.1	0.0	0.1	0.0	0.0	-0.2	-0.1	0.0	0.1	0.1
90%	-0.1	-0.3	-0.2	0.0	0.0	0.0	-0.2	-0.3	-0.2	0.0	0.0	0.0
Long Term												
Full Simulation Period[a]	0.0	0.4	1.0	1.3	1.8	1.7	0.7	0.2	0.1	0.2	0.2	0.3
Water Year Types[b]												
Wet (31%)	0.2	1.6	3.7	2.8	4.6	4.2	2.4	1.0	0.6	0.4	0.3	0.8
Above Normal (25%)	0.0	-0.2	0.4	3.7	3.9	2.8	0.9	0.2	-0.1	0.2	0.2	0.3
Below Normal (6%)	0.0	-0.1	-0.1	0.9	1.1	0.8	0.2	0.1	-0.1	0.0	-0.1	0.1
Dry (13%)	-0.1	0.0	0.1	0.2	0.3	0.8	0.1	0.0	0.0	0.1	0.2	0.1
Critical (25%)	0.0	0.0	0.0	0.3	0.1	0.1	-0.1	-0.2	-0.1	0.1	0.2	0.2

Alternative 4A (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.1	-0.4	-0.5	-0.5	-0.2	-0.7	-0.3	-0.1	0.1	0.0	0.2	0.5
20%	0.2	-0.5	0.0	-0.4	-0.6	-0.4	0.3	0.4	0.3	0.1	0.3	0.7
30%	0.3	0.2	0.3	-0.1	-0.2	-0.4	0.3	0.4	0.3	0.1	0.3	0.4
40%	0.3	0.3	0.3	0.0	-0.4	-0.5	0.4	0.3	0.3	0.1	0.3	0.4
50%	0.3	0.3	0.3	0.1	0.0	-0.3	0.4	0.4	0.3	0.1	0.2	0.4
60%	0.3	0.3	0.3	0.5	0.3	-0.4	0.4	0.4	0.3	0.1	0.2	0.4
70%	0.3	0.3	0.3	0.4	0.3	0.1	0.4	0.4	0.4	0.1	0.2	0.3
80%	0.3	0.3	0.3	0.4	0.4	0.3	0.4	0.4	0.4	0.1	0.2	0.3
90%	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.1	0.2	0.3
Long Term												
Full Simulation Period[a]	0.2	0.2	0.2	0.0	0.0	-0.2	0.2	0.2	0.2	0.0	0.2	0.3
Water Year Types[b]												
Wet (31%)	0.0	-0.1	-0.2	-0.3	-0.2	-0.6	0.0	-0.2	-0.2	-0.1	0.1	0.3
Above Normal (25%)	0.4	0.2	0.3	-0.6	-0.2	-0.5	0.1	0.2	0.2	0.2	0.2	0.4
Below Normal (6%)	0.2	0.3	0.5	0.2	-0.5	-0.4	0.4	0.2	0.2	-0.1	0.0	0.2
Dry (13%)	0.3	0.1	0.2	0.2	0.2	-0.1	0.3	0.4	0.3	0.0	0.1	0.2
Critical (25%)	0.3	0.4	0.3	0.4	0.3	0.3	0.4	0.5	0.4	0.2	0.4	0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-65-2-4. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.3	1.9	4.6	4.3	5.8	5.2	2.9	0.9	0.0	0.4	0.2	0.4
20%	-0.1	1.1	0.6	3.3	4.9	3.8	0.3	-0.2	-0.3	0.2	0.1	0.0
30%	-0.2	-0.2	0.2	1.9	2.3	2.6	0.1	-0.2	-0.3	0.1	0.0	-0.1
40%	-0.3	-0.3	0.0	0.7	1.5	1.5	-0.1	-0.3	-0.3	0.1	0.0	-0.1
50%	-0.3	-0.4	-0.1	0.6	0.6	1.1	-0.2	-0.4	-0.4	0.1	0.0	-0.1
60%	-0.3	-0.4	-0.1	0.1	-0.1	1.0	-0.3	-0.4	-0.4	0.1	0.0	-0.2
70%	-0.4	-0.5	-0.2	-0.2	-0.2	0.2	-0.4	-0.5	-0.5	0.0	-0.1	-0.2
80%	-0.4	-0.6	-0.4	-0.3	-0.2	-0.3	-0.4	-0.6	-0.5	-0.1	-0.1	-0.2
90%	-0.4	-0.6	-0.6	-0.5	-0.4	-0.5	-0.6	-0.7	-0.5	-0.1	-0.2	-0.3
Long Term												
Full Simulation Period[a]	-0.2	0.2	0.8	1.3	1.8	1.9	0.5	0.0	-0.1	0.1	0.0	0.0
Water Year Types[b]												
Wet (31%)	0.1	1.8	3.8	3.0	4.8	4.8	2.4	1.1	0.8	0.5	0.2	0.5
Above Normal (25%)	-0.4	-0.3	0.1	4.3	4.1	3.3	0.8	0.0	-0.3	0.0	0.0	-0.1
Below Normal (6%)	-0.1	-0.4	-0.6	0.7	1.7	1.2	-0.1	-0.2	-0.3	0.1	0.0	-0.2
Dry (13%)	-0.4	-0.1	-0.1	-0.1	0.1	0.9	-0.2	-0.4	-0.4	0.1	0.0	-0.1
Critical (25%)	-0.3	-0.4	-0.3	-0.1	-0.3	-0.1	-0.5	-0.7	-0.5	0.0	-0.2	-0.2

Alternative 5A (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.4	1.7	4.6	4.2	5.9	5.0	2.9	0.8	0.2	0.8	0.5	1.0
20%	0.2	0.8	0.7	3.4	4.9	3.9	0.5	0.2	0.1	0.6	0.4	0.5
30%	0.1	0.1	0.5	2.1	2.3	2.4	0.3	0.1	0.1	0.6	0.4	0.4
40%	0.1	0.1	0.3	0.7	1.3	1.2	0.2	0.1	0.0	0.5	0.3	0.3
50%	0.1	0.1	0.3	0.7	0.7	1.1	0.2	0.0	0.0	0.5	0.3	0.3
60%	0.0	0.0	0.2	0.4	0.2	0.7	0.1	0.0	0.0	0.4	0.3	0.2
70%	0.0	-0.1	0.1	0.3	0.2	0.4	0.0	-0.1	-0.1	0.3	0.2	0.2
80%	0.0	-0.2	0.0	0.1	0.2	0.0	0.0	-0.2	-0.1	0.2	0.2	0.2
90%	0.0	-0.2	-0.1	0.0	0.0	0.0	-0.2	-0.3	-0.1	0.1	0.2	0.1
Long Term												
Full Simulation Period[a]	0.1	0.5	1.1	1.5	2.0	1.9	0.8	0.3	0.2	0.4	0.3	0.4
Water Year Types[b]												
Wet (31%)	0.3	1.8	4.0	3.1	4.9	4.6	2.7	1.1	0.7	0.7	0.5	0.9
Above Normal (25%)	0.0	0.0	0.5	4.1	4.2	3.2	0.8	0.2	0.0	0.5	0.4	0.4
Below Normal (6%)	0.2	0.0	0.0	0.9	1.3	1.0	0.2	0.1	0.1	0.3	0.1	0.1
Dry (13%)	0.0	0.1	0.2	0.3	0.4	0.9	0.1	0.1	0.0	0.5	0.3	0.2
Critical (25%)	0.1	0.0	0.1	0.2	0.1	0.2	0.0	-0.2	-0.1	0.2	0.2	0.2

Alternative 5A (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.1	-0.2	0.0	-0.1	0.1	-0.1	0.0	0.0	0.2	0.4	0.3	0.6
20%	0.3	-0.3	0.1	0.0	0.0	0.1	0.1	0.4	0.4	0.4	0.3	0.6
30%	0.4	0.3	0.3	0.2	0.1	-0.2	0.2	0.4	0.4	0.4	0.4	0.5
40%	0.4	0.4	0.4	0.1	-0.2	-0.3	0.3	0.3	0.3	0.4	0.4	0.4
50%	0.4	0.4	0.4	0.1	0.1	-0.1	0.4	0.4	0.3	0.4	0.3	0.4
60%	0.4	0.4	0.3	0.3	0.3	-0.3	0.4	0.4	0.3	0.4	0.3	0.4
70%	0.4	0.4	0.3	0.5	0.3	0.2	0.4	0.4	0.4	0.3	0.3	0.4
80%	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.5	0.4	0.2	0.3	0.4
90%	0.4	0.4	0.5	0.5	0.4	0.5	0.4	0.4	0.4	0.2	0.4	0.3
Long Term												
Full Simulation Period[a]	0.3	0.3	0.3	0.2	0.2	0.0	0.3	0.3	0.3	0.3	0.3	0.4
Water Year Types[b]												
Wet (31%)	0.2	0.0	0.2	0.0	0.1	-0.2	0.3	0.0	0.0	0.2	0.3	0.4
Above Normal (25%)	0.4	0.3	0.4	-0.2	0.1	-0.1	0.0	0.2	0.3	0.5	0.4	0.5
Below Normal (6%)	0.3	0.4	0.6	0.3	-0.3	-0.2	0.3	0.2	0.4	0.2	0.2	0.3
Dry (13%)	0.4	0.2	0.3	0.4	0.3	0.0	0.3	0.4	0.4	0.4	0.3	0.3
Critical (25%)	0.4	0.4	0.4	0.3	0.4	0.3	0.4	0.5	0.4	0.2	0.4	0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-65-2-5. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Minimum Elevation

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.5	1.9	4.6	4.3	5.9	4.9	2.9	1.0	0.3	0.9	0.6	1.3
20%	0.2	0.9	0.7	3.4	4.9	3.9	0.6	0.2	0.1	0.7	0.5	0.8
30%	0.2	0.3	0.5	2.1	2.4	2.6	0.5	0.1	0.1	0.6	0.5	0.6
40%	0.2	0.2	0.4	0.8	1.4	1.4	0.2	0.1	0.0	0.5	0.4	0.4
50%	0.1	0.1	0.3	0.8	0.8	1.2	0.1	0.0	0.0	0.5	0.4	0.3
60%	0.1	0.0	0.3	0.4	0.2	0.8	0.1	0.0	-0.1	0.4	0.3	0.2
70%	0.0	0.0	0.1	0.3	0.2	0.4	0.0	-0.1	-0.1	0.4	0.3	0.2
80%	0.0	-0.1	0.0	0.1	0.1	0.0	0.0	-0.2	-0.1	0.4	0.2	0.2
90%	0.0	-0.2	-0.2	-0.1	0.0	-0.1	-0.2	-0.3	-0.1	0.2	0.2	0.2
Long Term												
Full Simulation Period[a]	0.2	0.6	1.2	1.5	2.0	1.9	0.8	0.3	0.2	0.5	0.4	0.5
Water Year Types[b]												
Wet (31%)	0.4	2.0	4.1	3.2	4.9	4.7	2.6	1.2	0.8	0.8	0.5	1.3
Above Normal (25%)	0.0	0.0	0.5	4.2	4.3	3.2	1.0	0.3	0.0	0.5	0.5	0.6
Below Normal (6%)	0.2	0.2	0.0	0.9	1.4	1.2	0.2	0.1	0.1	0.3	0.3	0.2
Dry (13%)	0.1	0.2	0.2	0.2	0.4	1.0	0.1	0.0	0.0	0.5	0.4	0.3
Critical (25%)	0.1	0.0	0.1	0.3	0.1	0.2	-0.1	-0.2	-0.1	0.3	0.2	0.2

Alternative 2D (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.2	1.4	4.0	3.6	5.4	4.1	2.4	0.5	0.2	0.8	0.4	0.7
20%	0.1	0.7	0.6	3.1	4.3	3.3	0.4	0.2	0.1	0.7	0.4	0.4
30%	0.1	0.1	0.5	1.8	2.1	2.3	0.3	0.1	0.1	0.6	0.4	0.3
40%	0.0	0.0	0.3	0.7	1.0	1.0	0.2	0.1	0.0	0.5	0.3	0.2
50%	0.0	0.0	0.2	0.6	0.7	0.8	0.2	0.1	0.0	0.4	0.3	0.2
60%	0.0	-0.1	0.1	0.4	0.2	0.6	0.1	0.0	0.0	0.3	0.2	0.2
70%	0.0	-0.1	0.1	0.2	0.2	0.3	0.0	-0.1	0.0	0.2	0.2	0.2
80%	-0.1	-0.2	-0.1	0.1	0.2	0.1	0.0	-0.2	-0.1	0.2	0.1	0.1
90%	-0.1	-0.2	-0.2	0.0	0.0	0.0	-0.1	-0.2	-0.1	0.0	0.1	0.1
Long Term												
Full Simulation Period[a]	0.0	0.4	1.0	1.3	1.8	1.7	0.7	0.2	0.1	0.4	0.3	0.3
Water Year Types[b]												
Wet (31%)	0.1	1.5	3.6	2.8	4.4	4.0	2.3	0.8	0.5	0.6	0.3	0.7
Above Normal (25%)	0.0	-0.1	0.4	3.5	4.0	2.8	0.6	0.2	0.0	0.6	0.3	0.2
Below Normal (6%)	0.1	-0.1	-0.1	0.8	1.0	0.8	0.2	0.1	0.0	-0.1	-0.1	0.1
Dry (13%)	-0.1	0.1	0.2	0.2	0.3	0.9	0.1	0.1	0.1	0.6	0.3	0.1
Critical (25%)	0.0	0.0	0.1	0.2	0.1	0.2	0.0	-0.2	-0.1	0.2	0.2	0.2

Alternative 2D (ELT) minus No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.3	-0.4	-0.7	-0.6	-0.6	-0.7	-0.5	-0.5	-0.1	-0.1	-0.1	-0.6
20%	-0.1	-0.2	-0.1	-0.3	-0.6	-0.6	-0.2	0.1	0.0	0.0	-0.1	-0.4
30%	-0.1	-0.2	-0.1	-0.3	-0.4	-0.3	-0.2	0.0	0.0	-0.1	-0.1	-0.3
40%	-0.1	-0.1	-0.1	-0.2	-0.4	-0.4	0.0	0.0	0.0	0.0	-0.1	-0.1
50%	-0.1	-0.1	-0.1	-0.2	-0.1	-0.4	0.0	0.1	0.0	0.0	-0.1	-0.1
60%	-0.1	-0.1	-0.1	-0.1	0.0	-0.1	0.0	0.1	0.0	-0.1	-0.1	-0.1
70%	-0.1	-0.1	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	-0.2	-0.1	-0.1
80%	-0.1	-0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	-0.2	-0.1	-0.1
90%	-0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	-0.2	-0.1	-0.1
Long Term												
Full Simulation Period[a]	-0.1	-0.2	-0.2	-0.2	-0.2	-0.3	-0.1	-0.1	-0.1	-0.1	-0.1	-0.2
Water Year Types[b]												
Wet (31%)	-0.3	-0.4	-0.5	-0.4	-0.6	-0.7	-0.3	-0.4	-0.3	-0.2	-0.3	-0.6
Above Normal (25%)	0.0	-0.1	-0.1	-0.8	-0.3	-0.4	-0.4	-0.1	0.0	0.1	-0.2	-0.4
Below Normal (6%)	-0.1	-0.3	0.0	-0.1	-0.4	-0.4	0.0	0.0	0.0	-0.5	-0.3	-0.1
Dry (13%)	-0.2	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.1	0.0	0.0	-0.1	-0.1
Critical (25%)	-0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	-0.1	0.0	0.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-65-2-6. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Minimum Elevation

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.5	1.9	4.6	4.3	5.9	4.9	2.9	1.0	0.3	0.9	0.6	1.3
20%	0.2	0.9	0.7	3.4	4.9	3.9	0.6	0.2	0.1	0.7	0.5	0.8
30%	0.2	0.3	0.5	2.1	2.4	2.6	0.5	0.1	0.1	0.6	0.5	0.6
40%	0.2	0.2	0.4	0.8	1.4	1.4	0.2	0.1	0.0	0.5	0.4	0.4
50%	0.1	0.1	0.3	0.8	0.8	1.2	0.1	0.0	0.0	0.5	0.4	0.3
60%	0.1	0.0	0.3	0.4	0.2	0.8	0.1	0.0	-0.1	0.4	0.3	0.2
70%	0.0	0.0	0.1	0.3	0.2	0.4	0.0	-0.1	-0.1	0.4	0.3	0.2
80%	0.0	-0.1	0.0	0.1	0.1	0.0	0.0	-0.2	-0.1	0.4	0.2	0.2
90%	0.0	-0.2	-0.2	-0.1	0.0	-0.1	-0.2	-0.3	-0.1	0.2	0.2	0.2
Long Term												
Full Simulation Period[a]	0.2	0.6	1.2	1.5	2.0	1.9	0.8	0.3	0.2	0.5	0.4	0.5
Water Year Types[b]												
Wet (31%)	0.4	2.0	4.1	3.2	4.9	4.7	2.6	1.2	0.8	0.8	0.5	1.3
Above Normal (25%)	0.0	0.0	0.5	4.2	4.3	3.2	1.0	0.3	0.0	0.5	0.5	0.6
Below Normal (6%)	0.2	0.2	0.0	0.9	1.4	1.2	0.2	0.1	0.1	0.3	0.3	0.2
Dry (13%)	0.1	0.2	0.2	0.2	0.4	1.0	0.1	0.0	0.0	0.5	0.4	0.3
Critical (25%)	0.1	0.0	0.1	0.3	0.1	0.2	-0.1	-0.2	-0.1	0.3	0.2	0.2

Alternative 4A (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.2	1.5	4.1	3.8	5.6	4.5	2.6	0.7	0.1	0.4	0.4	0.8
20%	0.1	0.6	0.6	2.9	4.4	3.4	0.6	0.2	0.1	0.3	0.4	0.7
30%	0.0	0.0	0.5	1.8	2.1	2.2	0.5	0.2	0.0	0.2	0.3	0.3
40%	0.0	0.0	0.3	0.7	1.1	1.0	0.2	0.1	-0.1	0.2	0.3	0.3
50%	0.0	0.0	0.2	0.6	0.6	0.9	0.1	0.0	-0.1	0.1	0.2	0.3
60%	-0.1	-0.1	0.2	0.6	0.2	0.6	0.1	0.0	-0.1	0.1	0.2	0.2
70%	-0.1	-0.2	0.1	0.2	0.2	0.3	0.0	-0.1	-0.1	0.1	0.1	0.1
80%	-0.1	-0.2	-0.1	0.0	0.1	0.0	0.0	-0.2	-0.1	0.0	0.1	0.1
90%	-0.1	-0.3	-0.2	0.0	0.0	0.0	-0.2	-0.3	-0.2	0.0	0.0	0.0
Long Term												
Full Simulation Period[a]	0.0	0.4	1.0	1.3	1.8	1.7	0.7	0.2	0.1	0.2	0.2	0.3
Water Year Types[b]												
Wet (31%)	0.2	1.6	3.7	2.8	4.6	4.2	2.4	1.0	0.6	0.4	0.3	0.8
Above Normal (25%)	0.0	-0.2	0.4	3.7	3.9	2.8	0.9	0.2	-0.1	0.2	0.2	0.3
Below Normal (6%)	0.0	-0.1	-0.1	0.9	1.1	0.8	0.2	0.1	-0.1	0.0	-0.1	0.1
Dry (13%)	-0.1	0.0	0.1	0.2	0.3	0.8	0.1	0.0	0.0	0.1	0.2	0.1
Critical (25%)	0.0	0.0	0.0	0.3	0.1	0.1	-0.1	-0.2	-0.1	0.1	0.2	0.2

Alternative 4A (ELT) minus No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.3	-0.4	-0.5	-0.5	-0.3	-0.4	-0.3	-0.3	-0.2	-0.5	-0.2	-0.5
20%	-0.2	-0.2	-0.2	-0.5	-0.5	-0.5	0.0	0.0	0.0	-0.4	-0.2	-0.1
30%	-0.2	-0.2	-0.1	-0.3	-0.4	-0.4	0.0	0.0	-0.1	-0.4	-0.2	-0.2
40%	-0.2	-0.2	-0.1	-0.2	-0.3	-0.4	0.0	0.0	-0.1	-0.3	-0.1	-0.1
50%	-0.1	-0.1	-0.1	-0.2	-0.2	-0.3	0.0	0.0	-0.1	-0.3	-0.2	-0.1
60%	-0.2	-0.1	-0.1	0.1	0.0	-0.2	0.0	0.0	0.0	-0.3	-0.1	0.0
70%	-0.1	-0.2	0.0	-0.1	0.0	-0.1	0.0	0.0	0.0	-0.3	-0.2	-0.1
80%	-0.1	-0.2	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	-0.4	-0.2	-0.1
90%	-0.1	-0.1	-0.1	0.1	0.0	0.0	0.0	0.0	-0.1	-0.2	-0.2	-0.1
Long Term												
Full Simulation Period[a]	-0.2	-0.2	-0.2	-0.2	-0.2	-0.3	-0.1	-0.1	-0.1	-0.3	-0.2	-0.2
Water Year Types[b]												
Wet (31%)	-0.2	-0.3	-0.4	-0.4	-0.4	-0.5	-0.2	-0.3	-0.3	-0.4	-0.3	-0.4
Above Normal (25%)	0.0	-0.2	-0.1	-0.6	-0.4	-0.4	-0.1	-0.1	-0.1	-0.3	-0.2	-0.3
Below Normal (6%)	-0.2	-0.3	-0.1	-0.1	-0.3	-0.4	0.0	0.0	-0.2	-0.4	-0.3	-0.2
Dry (13%)	-0.2	-0.2	-0.1	-0.1	-0.1	-0.2	0.0	0.0	-0.1	-0.4	-0.2	-0.2
Critical (25%)	-0.1	-0.1	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	-0.2	0.0	0.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-65-2-7. Steamboat Sl d/s of Sutter Sl, Monthly Averaged Daily Minimum Elevation

No Action Alternative (ELT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.5	1.9	4.6	4.3	5.9	4.9	2.9	1.0	0.3	0.9	0.6	1.3
20%	0.2	0.9	0.7	3.4	4.9	3.9	0.6	0.2	0.1	0.7	0.5	0.8
30%	0.2	0.3	0.5	2.1	2.4	2.6	0.5	0.1	0.1	0.6	0.5	0.6
40%	0.2	0.2	0.4	0.8	1.4	1.4	0.2	0.1	0.0	0.5	0.4	0.4
50%	0.1	0.1	0.3	0.8	0.8	1.2	0.1	0.0	0.0	0.5	0.4	0.3
60%	0.1	0.0	0.3	0.4	0.2	0.8	0.1	0.0	-0.1	0.4	0.3	0.2
70%	0.0	0.0	0.1	0.3	0.2	0.4	0.0	-0.1	-0.1	0.4	0.3	0.2
80%	0.0	-0.1	0.0	0.1	0.1	0.0	0.0	-0.2	-0.1	0.4	0.2	0.2
90%	0.0	-0.2	-0.2	-0.1	0.0	-0.1	-0.2	-0.3	-0.1	0.2	0.2	0.2
Long Term												
Full Simulation Period[a]	0.2	0.6	1.2	1.5	2.0	1.9	0.8	0.3	0.2	0.5	0.4	0.5
Water Year Types[b]												
Wet (31%)	0.4	2.0	4.1	3.2	4.9	4.7	2.6	1.2	0.8	0.8	0.5	1.3
Above Normal (25%)	0.0	0.0	0.5	4.2	4.3	3.2	1.0	0.3	0.0	0.5	0.5	0.6
Below Normal (6%)	0.2	0.2	0.0	0.9	1.4	1.2	0.2	0.1	0.1	0.3	0.3	0.2
Dry (13%)	0.1	0.2	0.2	0.2	0.4	1.0	0.1	0.0	0.0	0.5	0.4	0.3
Critical (25%)	0.1	0.0	0.1	0.3	0.1	0.2	-0.1	-0.2	-0.1	0.3	0.2	0.2

Alternative 5A (ELT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.4	1.7	4.6	4.2	5.9	5.0	2.9	0.8	0.2	0.8	0.5	1.0
20%	0.2	0.8	0.7	3.4	4.9	3.9	0.5	0.2	0.1	0.6	0.4	0.5
30%	0.1	0.1	0.5	2.1	2.3	2.4	0.3	0.1	0.1	0.6	0.4	0.4
40%	0.1	0.1	0.3	0.7	1.3	1.2	0.2	0.1	0.0	0.5	0.3	0.3
50%	0.1	0.1	0.3	0.7	0.7	1.1	0.2	0.0	0.0	0.5	0.3	0.3
60%	0.0	0.0	0.2	0.4	0.2	0.7	0.1	0.0	0.0	0.4	0.3	0.2
70%	0.0	-0.1	0.1	0.3	0.2	0.4	0.0	-0.1	-0.1	0.3	0.2	0.2
80%	0.0	-0.2	0.0	0.1	0.2	0.0	0.0	-0.2	-0.1	0.2	0.2	0.2
90%	0.0	-0.2	-0.1	0.0	0.0	0.0	-0.2	-0.3	-0.1	0.1	0.2	0.1
Long Term												
Full Simulation Period[a]	0.1	0.5	1.1	1.5	2.0	1.9	0.8	0.3	0.2	0.4	0.3	0.4
Water Year Types[b]												
Wet (31%)	0.3	1.8	4.0	3.1	4.9	4.6	2.7	1.1	0.7	0.7	0.5	0.9
Above Normal (25%)	0.0	0.0	0.5	4.1	4.2	3.2	0.8	0.2	0.0	0.5	0.4	0.4
Below Normal (6%)	0.2	0.0	0.0	0.9	1.3	1.0	0.2	0.1	0.1	0.3	0.1	0.1
Dry (13%)	0.0	0.1	0.2	0.3	0.4	0.9	0.1	0.1	0.0	0.5	0.3	0.2
Critical (25%)	0.1	0.0	0.1	0.2	0.1	0.2	0.0	-0.2	-0.1	0.2	0.2	0.2

Alternative 5A (ELT) minus No Action Alternative (ELT)

	Monthly Averaged Daily Minimum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.1	-0.2	0.0	0.0	0.0	0.2	0.0	-0.2	-0.1	-0.1	-0.1	-0.4
20%	-0.1	-0.1	0.0	0.0	0.0	0.1	-0.1	0.1	0.0	-0.1	-0.1	-0.3
30%	-0.1	-0.2	0.0	-0.1	-0.1	-0.2	-0.2	0.0	0.0	-0.1	-0.1	-0.2
40%	-0.1	-0.1	0.0	-0.1	-0.1	-0.2	0.0	0.0	0.0	0.0	-0.1	0.0
50%	0.0	0.0	0.0	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	-0.1	-0.1
60%	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	-0.1	0.0
70%	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	0.0
80%	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.2	0.0	0.0
90%	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	-0.1
Long Term												
Full Simulation Period[a]	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	-0.1
Water Year Types[b]												
Wet (31%)	-0.1	-0.2	0.0	-0.1	-0.1	-0.1	0.1	-0.1	-0.1	-0.1	-0.1	-0.4
Above Normal (25%)	0.0	0.0	0.0	-0.1	0.0	-0.1	-0.2	-0.1	0.0	0.0	-0.1	-0.2
Below Normal (6%)	-0.1	-0.2	0.0	0.0	-0.1	-0.2	0.0	0.0	0.1	0.0	-0.1	-0.1
Dry (13%)	-0.1	-0.1	0.0	0.0	0.0	-0.1	0.0	0.1	0.0	0.0	-0.1	-0.1
Critical (25%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

C.66. Old River at Tracy Boulevard Water Surface Elevation

Table C-66-1-1. Old River at Tracy Blvd, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.6	3.5	3.9	4.2	4.7	4.7	4.3	3.8	3.8	3.4	2.8	3.2
20%	2.3	2.4	2.9	3.4	3.8	3.8	3.5	3.2	3.6	2.7	2.7	2.6
30%	2.3	2.3	2.7	3.0	3.4	3.1	2.9	3.0	3.2	2.5	2.6	2.5
40%	2.3	2.3	2.5	2.9	3.1	2.9	2.8	2.8	2.5	2.1	2.5	2.5
50%	2.2	2.2	2.5	2.9	2.8	2.8	2.7	2.8	2.5	2.1	2.4	2.4
60%	2.1	2.2	2.4	2.8	2.7	2.7	2.7	2.6	2.4	2.0	2.3	2.4
70%	2.1	2.1	2.3	2.6	2.5	2.5	2.6	2.5	2.3	2.0	2.3	2.3
80%	2.1	2.0	2.2	2.5	2.5	2.4	2.6	2.5	2.3	1.9	2.2	2.3
90%	2.1	2.0	2.2	2.4	2.4	2.1	2.3	2.4	2.2	1.8	2.1	2.2
Long Term												
Full Simulation Period[a]	2.3	2.5	2.8	3.1	3.3	3.3	3.0	3.0	2.9	2.4	2.5	2.6
Water Year Types[b]												
Wet (31%)	2.6	3.4	3.8	4.0	4.6	5.2	4.1	3.9	4.0	3.4	3.0	3.2
Above Normal (25%)	2.2	2.0	2.3	3.8	4.2	3.5	3.3	3.1	3.6	3.0	2.5	2.3
Below Normal (6%)	1.9	2.1	2.2	2.9	2.9	3.0	2.9	2.9	2.5	1.9	2.2	2.2
Dry (13%)	2.2	2.2	2.4	2.5	2.5	2.6	2.6	2.6	2.4	2.0	2.2	2.3
Critical (25%)	2.2	2.3	2.5	2.6	2.6	2.3	2.5	2.4	2.3	1.9	2.4	2.5

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.2	4.1	4.4	4.9	5.7	5.3	4.8	4.4	3.7	3.4	3.4	3.7
20%	3.0	3.0	3.4	4.0	4.3	4.5	4.1	3.8	3.7	3.2	3.2	3.3
30%	2.9	2.9	3.3	3.6	4.0	3.6	3.5	3.6	3.4	3.0	3.1	3.1
40%	2.9	2.8	3.3	3.5	3.4	3.4	3.3	3.5	3.3	2.9	3.0	3.1
50%	2.8	2.7	3.1	3.4	3.2	3.4	3.2	3.3	3.0	2.7	3.0	3.1
60%	2.8	2.7	3.0	3.4	3.2	3.3	3.2	3.2	3.0	2.6	3.0	3.0
70%	2.7	2.6	2.9	3.3	3.1	3.1	3.2	3.1	2.9	2.6	2.8	2.9
80%	2.6	2.6	2.6	3.1	3.0	3.0	3.1	3.0	2.8	2.5	2.7	2.8
90%	2.6	2.6	2.6	3.0	3.0	2.7	2.9	3.0	2.8	2.5	2.6	2.6
Long Term												
Full Simulation Period[a]	2.9	3.0	3.4	3.7	3.9	3.9	3.6	3.5	3.3	2.9	3.0	3.1
Water Year Types[b]												
Wet (31%)	3.2	3.8	4.6	4.6	5.4	5.8	4.6	4.4	4.1	3.7	3.4	3.7
Above Normal (25%)	2.8	2.5	3.0	4.5	4.9	4.1	3.8	3.8	3.5	3.1	2.9	2.9
Below Normal (6%)	2.6	2.7	2.6	3.5	3.4	3.4	3.4	3.5	3.1	2.4	2.7	2.5
Dry (13%)	2.9	2.8	2.9	3.2	3.1	3.1	3.2	3.2	3.0	2.6	2.8	2.8
Critical (25%)	2.8	2.8	3.1	3.2	3.1	2.9	3.0	3.0	2.9	2.7	3.1	3.0

No Action Alternative (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.6	0.6	0.6	0.8	1.0	0.6	0.5	0.6	**-0.1**	**0.0**	0.6	0.5
20%	0.7	0.6	0.5	0.6	0.5	0.6	0.6	0.6	0.1	0.5	0.5	0.7
30%	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.6	0.1	0.5	0.5	0.6
40%	0.6	0.6	0.7	0.6	0.3	0.6	0.5	0.6	0.7	0.8	0.6	0.6
50%	0.6	0.6	0.6	0.5	0.4	0.5	0.5	0.6	0.5	0.7	0.6	0.7
60%	0.6	0.5	0.6	0.6	0.5	0.6	0.5	0.6	0.5	0.6	0.6	0.6
70%	0.6	0.5	0.7	0.7	0.6	0.5	0.5	0.6	0.6	0.6	0.6	0.6
80%	0.5	0.6	0.4	0.6	0.6	0.6	0.5	0.6	0.6	0.6	0.5	0.5
90%	0.5	0.6	0.4	0.7	0.6	0.6	0.6	0.6	0.6	0.7	0.6	0.4
Long Term												
Full Simulation Period[a]	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.4	0.5	0.5	0.5
Water Year Types[b]												
Wet (31%)	0.5	0.4	0.7	0.6	0.7	0.6	0.5	0.5	0.1	0.3	0.3	0.5
Above Normal (25%)	0.6	0.5	0.7	0.7	0.8	0.6	0.5	0.7	**-0.1**	0.1	0.3	0.6
Below Normal (6%)	0.7	0.6	0.4	0.6	0.5	0.4	0.5	0.5	0.5	0.5	0.4	0.4
Dry (13%)	0.7	0.7	0.5	0.6	0.6	0.5	0.5	0.6	0.6	0.6	0.6	0.6
Critical (25%)	0.5	0.6	0.6	0.6	0.5	0.6	0.5	0.6	0.6	0.8	0.7	0.6

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

Table C-66-1-2. Old River at Tracy Blvd, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.6	3.5	3.9	4.2	4.7	4.7	4.3	3.8	3.8	3.4	2.8	3.2
20%	2.3	2.4	2.9	3.4	3.8	3.8	3.5	3.2	3.6	2.7	2.7	2.6
30%	2.3	2.3	2.7	3.0	3.4	3.1	2.9	3.0	3.2	2.5	2.6	2.5
40%	2.3	2.3	2.5	2.9	3.1	2.9	2.8	2.8	2.5	2.1	2.5	2.5
50%	2.2	2.2	2.5	2.9	2.8	2.8	2.7	2.8	2.5	2.1	2.4	2.4
60%	2.1	2.2	2.4	2.8	2.7	2.7	2.7	2.6	2.4	2.0	2.3	2.4
70%	2.1	2.1	2.3	2.6	2.5	2.5	2.6	2.5	2.3	2.0	2.3	2.3
80%	2.1	2.0	2.2	2.5	2.5	2.4	2.6	2.5	2.3	1.9	2.2	2.3
90%	2.1	2.0	2.2	2.4	2.4	2.1	2.3	2.4	2.2	1.8	2.1	2.2
Long Term												
Full Simulation Period[a]	2.3	2.5	2.8	3.1	3.3	3.3	3.0	3.0	2.9	2.4	2.5	2.6
Water Year Types[b]												
Wet (31%)	2.6	3.4	3.8	4.0	4.6	5.2	4.1	3.9	4.0	3.4	3.0	3.2
Above Normal (25%)	2.2	2.0	2.3	3.8	4.2	3.5	3.3	3.1	3.6	3.0	2.5	2.3
Below Normal (6%)	1.9	2.1	2.2	2.9	2.9	3.0	2.9	2.9	2.5	1.9	2.2	2.2
Dry (13%)	2.2	2.2	2.4	2.5	2.5	2.6	2.6	2.6	2.4	2.0	2.2	2.3
Critical (25%)	2.2	2.3	2.5	2.6	2.6	2.3	2.5	2.4	2.3	1.9	2.4	2.5

Alternative 2D (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.6	4.5	5.0	5.3	6.3	5.9	5.1	4.6	3.8	3.4	3.4	4.3
20%	3.2	3.4	3.4	4.2	5.1	4.8	4.0	3.8	3.6	3.2	3.3	4.0
30%	3.1	3.2	3.3	3.9	4.6	4.2	3.2	3.3	3.2	3.1	3.3	3.6
40%	3.0	3.1	3.3	3.5	3.3	3.6	3.1	3.2	3.1	3.1	3.2	3.2
50%	2.9	3.0	3.2	3.4	3.1	3.3	3.1	3.1	3.0	3.0	3.1	3.2
60%	2.9	3.0	3.1	3.4	3.0	3.0	3.1	3.1	2.9	3.0	3.1	3.2
70%	2.9	2.9	3.0	3.3	2.9	2.9	3.0	2.9	2.9	2.9	3.0	3.1
80%	2.9	2.9	3.0	3.3	2.9	2.9	2.9	2.9	2.8	2.7	2.9	3.0
90%	2.9	2.8	2.8	3.1	2.9	2.5	2.7	2.8	2.8	2.5	2.7	2.9
Long Term												
Full Simulation Period[a]	3.1	3.3	3.5	3.8	4.0	4.0	3.5	3.5	3.3	3.1	3.2	3.5
Water Year Types[b]												
Wet (31%)	3.4	4.3	5.0	4.9	5.9	6.3	4.8	4.5	4.2	3.8	3.6	4.4
Above Normal (25%)	2.9	2.8	3.0	4.8	5.5	4.6	3.8	3.7	3.5	3.1	3.1	3.6
Below Normal (6%)	2.9	3.2	2.6	3.5	3.3	3.6	3.2	3.2	2.9	3.0	3.1	2.9
Dry (13%)	3.0	3.1	3.1	3.2	3.0	3.0	2.9	3.0	2.9	2.6	2.9	3.1
Critical (25%)	3.0	3.0	3.1	3.2	2.9	2.8	2.9	2.9	2.8	2.9	3.1	3.1

Alternative 2D (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.9	1.0	1.1	1.1	1.6	1.2	0.8	0.8	**-0.1**	**0.0**	0.6	1.1
20%	0.9	1.0	0.5	0.8	1.2	0.9	0.5	0.5	0.0	0.5	0.7	1.5
30%	0.7	0.9	0.6	0.8	1.2	1.1	0.3	0.4	**0.0**	0.6	0.7	1.1
40%	0.7	0.8	0.7	0.5	0.2	0.7	0.3	0.4	0.6	0.9	0.7	0.8
50%	0.7	0.8	0.7	0.5	0.3	0.4	0.4	0.4	0.5	0.9	0.7	0.8
60%	0.8	0.8	0.7	0.6	0.4	0.4	0.4	0.5	0.5	1.0	0.7	0.8
70%	0.8	0.8	0.7	0.7	0.4	0.4	0.3	0.4	0.5	0.9	0.7	0.8
80%	0.8	0.9	0.7	0.7	0.4	0.5	0.3	0.4	0.6	0.8	0.8	0.6
90%	0.8	0.8	0.6	0.7	0.5	0.5	0.4	0.4	0.5	0.8	0.6	0.7
Long Term												
Full Simulation Period[a]	0.8	0.9	0.8	0.7	0.7	0.7	0.5	0.5	0.4	0.6	0.7	0.9
Water Year Types[b]												
Wet (31%)	0.8	0.8	1.1	0.9	1.3	1.1	0.7	0.6	0.2	0.3	0.6	1.1
Above Normal (25%)	0.7	0.7	0.7	1.0	1.3	1.1	0.5	0.6	**-0.1**	0.1	0.5	1.3
Below Normal (6%)	1.0	1.1	0.5	0.5	0.4	0.6	0.3	0.3	0.4	1.1	0.8	0.8
Dry (13%)	0.8	1.0	0.8	0.7	0.4	0.4	0.3	0.4	0.6	0.6	0.7	0.8
Critical (25%)	0.7	0.8	0.6	0.6	0.3	0.5	0.4	0.5	0.5	1.0	0.7	0.6

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-66-1-3. Old River at Tracy Blvd, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.6	3.5	3.9	4.2	4.7	4.7	4.3	3.8	3.8	3.4	2.8	3.2
20%	2.3	2.4	2.9	3.4	3.8	3.8	3.5	3.2	3.6	2.7	2.7	2.6
30%	2.3	2.3	2.7	3.0	3.4	3.1	2.9	3.0	3.2	2.5	2.6	2.5
40%	2.3	2.3	2.5	2.9	3.1	2.9	2.8	2.8	2.5	2.1	2.5	2.5
50%	2.2	2.2	2.5	2.9	2.8	2.8	2.7	2.8	2.5	2.1	2.4	2.4
60%	2.1	2.2	2.4	2.8	2.7	2.7	2.7	2.6	2.4	2.0	2.3	2.4
70%	2.1	2.1	2.3	2.6	2.5	2.5	2.6	2.5	2.3	2.0	2.3	2.3
80%	2.1	2.0	2.2	2.5	2.5	2.4	2.6	2.5	2.3	1.9	2.2	2.3
90%	2.1	2.0	2.2	2.4	2.4	2.1	2.3	2.4	2.2	1.8	2.1	2.2
Long Term												
Full Simulation Period[a]	2.3	2.5	2.8	3.1	3.3	3.3	3.0	3.0	2.9	2.4	2.5	2.6
Water Year Types[b]												
Wet (31%)	2.6	3.4	3.8	4.0	4.6	5.2	4.1	3.9	4.0	3.4	3.0	3.2
Above Normal (25%)	2.2	2.0	2.3	3.8	4.2	3.5	3.3	3.1	3.6	3.0	2.5	2.3
Below Normal (6%)	1.9	2.1	2.2	2.9	2.9	3.0	2.9	2.9	2.5	1.9	2.2	2.2
Dry (13%)	2.2	2.2	2.4	2.5	2.5	2.6	2.6	2.6	2.4	2.0	2.2	2.3
Critical (25%)	2.2	2.3	2.5	2.6	2.6	2.3	2.5	2.4	2.3	1.9	2.4	2.5

Alternative 4A (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.4	4.4	4.7	5.0	6.1	5.8	5.2	4.7	3.8	3.6	3.4	4.1
20%	3.2	3.5	3.4	3.8	4.8	4.8	4.1	3.8	3.6	3.4	3.3	3.7
30%	3.1	3.2	3.3	3.5	4.1	3.9	3.3	3.4	3.3	3.2	3.2	3.4
40%	3.0	3.1	3.3	3.5	3.3	3.4	3.2	3.3	3.1	3.2	3.2	3.2
50%	2.9	3.0	3.2	3.4	3.2	3.3	3.1	3.2	3.0	3.1	3.1	3.2
60%	2.9	3.0	3.1	3.4	3.1	3.1	3.1	3.1	2.9	3.1	3.1	3.2
70%	2.9	3.0	3.0	3.3	3.0	3.0	3.1	3.0	2.9	3.0	3.0	3.1
80%	2.9	2.9	3.0	3.2	3.0	2.9	2.9	3.0	2.8	3.0	3.0	3.0
90%	2.9	2.8	2.8	3.1	2.9	2.6	2.7	2.8	2.7	2.9	2.9	2.9
Long Term												
Full Simulation Period[a]	3.1	3.3	3.5	3.8	4.0	4.0	3.5	3.5	3.3	3.3	3.2	3.4
Water Year Types[b]												
Wet (31%)	3.3	4.1	4.9	4.8	5.7	6.2	4.7	4.5	4.2	3.9	3.6	4.2
Above Normal (25%)	2.9	2.8	3.0	4.2	5.3	4.5	3.9	3.8	3.5	3.4	3.2	3.4
Below Normal (6%)	2.9	3.2	2.6	3.5	3.3	3.4	3.2	3.3	2.9	2.8	3.1	3.0
Dry (13%)	3.1	3.2	3.2	3.2	3.0	3.0	3.0	3.1	2.9	3.1	3.0	3.1
Critical (25%)	3.0	3.1	3.1	3.2	3.0	2.8	2.9	3.0	2.8	3.0	3.0	3.0

Alternative 4A (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.8	0.9	0.9	0.8	1.4	1.1	0.9	0.8	**0.0**	0.2	0.6	1.0
20%	0.9	1.0	0.6	0.4	1.0	1.0	0.6	0.6	0.1	0.7	0.6	1.2
30%	0.8	0.9	0.6	0.5	0.7	0.8	0.4	0.4	0.0	0.7	0.6	0.9
40%	0.7	0.8	0.8	0.5	0.3	0.6	0.4	0.5	0.6	1.0	0.7	0.8
50%	0.7	0.9	0.7	0.6	0.4	0.4	0.4	0.4	0.5	1.1	0.7	0.8
60%	0.8	0.8	0.7	0.6	0.4	0.4	0.4	0.5	0.5	1.1	0.7	0.8
70%	0.8	0.8	0.7	0.7	0.5	0.4	0.4	0.5	0.6	1.0	0.7	0.7
80%	0.8	0.9	0.8	0.7	0.5	0.5	0.4	0.5	0.6	1.1	0.8	0.7
90%	0.8	0.8	0.6	0.7	0.5	0.6	0.4	0.5	0.5	1.1	0.8	0.7
Long Term												
Full Simulation Period[a]	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.4	0.8	0.7	0.8
Water Year Types[b]												
Wet (31%)	0.7	0.7	1.0	0.8	1.0	0.9	0.6	0.7	0.2	0.4	0.6	1.0
Above Normal (25%)	0.7	0.7	0.7	0.5	1.2	1.0	0.6	0.7	**-0.1**	0.4	0.6	1.1
Below Normal (6%)	1.0	1.1	0.5	0.5	0.4	0.5	0.3	0.3	0.4	0.9	0.9	0.8
Dry (13%)	0.8	1.0	0.8	0.7	0.5	0.4	0.4	0.5	0.6	1.1	0.9	0.8
Critical (25%)	0.8	0.8	0.7	0.6	0.4	0.5	0.4	0.5	0.5	1.1	0.6	0.6

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-66-1-4. Old River at Tracy Blvd, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.6	3.5	3.9	4.2	4.7	4.7	4.3	3.8	3.8	3.4	2.8	3.2
20%	2.3	2.4	2.9	3.4	3.8	3.8	3.5	3.2	3.6	2.7	2.7	2.6
30%	2.3	2.3	2.7	3.0	3.4	3.1	2.9	3.0	3.2	2.5	2.6	2.5
40%	2.3	2.3	2.5	2.9	3.1	2.9	2.8	2.8	2.5	2.1	2.5	2.5
50%	2.2	2.2	2.5	2.9	2.8	2.8	2.7	2.8	2.5	2.1	2.4	2.4
60%	2.1	2.2	2.4	2.8	2.7	2.7	2.7	2.6	2.4	2.0	2.3	2.4
70%	2.1	2.1	2.3	2.6	2.5	2.5	2.6	2.5	2.3	2.0	2.3	2.3
80%	2.1	2.0	2.2	2.5	2.5	2.4	2.6	2.5	2.3	1.9	2.2	2.3
90%	2.1	2.0	2.2	2.4	2.4	2.1	2.3	2.4	2.2	1.8	2.1	2.2
Long Term												
Full Simulation Period[a]	2.3	2.5	2.8	3.1	3.3	3.3	3.0	3.0	2.9	2.4	2.5	2.6
Water Year Types[b]												
Wet (31%)	2.6	3.4	3.8	4.0	4.6	5.2	4.1	3.9	4.0	3.4	3.0	3.2
Above Normal (25%)	2.2	2.0	2.3	3.8	4.2	3.5	3.3	3.1	3.6	3.0	2.5	2.3
Below Normal (6%)	1.9	2.1	2.2	2.9	2.9	3.0	2.9	2.9	2.5	1.9	2.2	2.2
Dry (13%)	2.2	2.2	2.4	2.5	2.5	2.6	2.6	2.6	2.4	2.0	2.2	2.3
Critical (25%)	2.2	2.3	2.5	2.6	2.6	2.3	2.5	2.4	2.3	1.9	2.4	2.5

Alternative 5A (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.4	4.3	4.5	5.0	5.8	5.4	4.8	4.3	3.7	3.4	3.4	3.9
20%	3.3	3.3	3.3	3.9	4.4	4.5	4.0	3.8	3.6	3.2	3.4	3.9
30%	3.0	3.2	3.2	3.5	4.0	3.7	3.4	3.5	3.3	3.1	3.3	3.4
40%	2.9	3.0	3.2	3.5	3.4	3.4	3.2	3.4	3.2	3.0	3.2	3.1
50%	2.8	2.8	3.1	3.4	3.2	3.4	3.2	3.3	3.1	3.0	3.1	3.1
60%	2.8	2.8	3.0	3.3	3.2	3.2	3.2	3.2	2.9	2.8	3.0	3.1
70%	2.8	2.8	2.9	3.2	3.0	3.1	3.1	3.1	2.9	2.7	3.0	3.0
80%	2.7	2.6	2.7	3.1	3.0	3.0	3.0	3.0	2.9	2.6	2.9	2.9
90%	2.7	2.6	2.6	3.1	3.0	2.7	2.8	2.9	2.8	2.5	2.7	2.9
Long Term												
Full Simulation Period[a]	3.0	3.2	3.4	3.7	3.9	3.9	3.5	3.5	3.3	3.0	3.1	3.3
Water Year Types[b]												
Wet (31%)	3.2	3.9	4.6	4.6	5.4	5.9	4.6	4.3	4.1	3.7	3.5	4.0
Above Normal (25%)	2.8	2.5	3.0	4.4	4.9	4.2	3.8	3.8	3.5	3.1	3.0	3.3
Below Normal (6%)	2.9	3.3	2.6	3.5	3.4	3.4	3.4	3.4	3.0	2.5	3.1	2.8
Dry (13%)	3.1	3.0	2.9	3.2	3.0	3.2	3.1	3.2	3.0	2.5	2.9	3.0
Critical (25%)	2.8	2.9	3.1	3.2	3.1	2.9	3.0	3.0	2.9	2.9	3.1	3.0

Alternative 5A (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.7	0.8	0.6	0.8	1.1	0.7	0.4	0.5	-0.2	0.0	0.6	0.8
20%	1.0	0.9	0.4	0.5	0.5	0.7	0.5	0.5	0.0	0.5	0.7	1.3
30%	0.6	0.9	0.6	0.5	0.6	0.6	0.5	0.6	0.1	0.6	0.7	0.8
40%	0.6	0.7	0.7	0.6	0.3	0.6	0.5	0.6	0.7	0.9	0.7	0.6
50%	0.6	0.7	0.7	0.5	0.4	0.5	0.5	0.5	0.6	0.9	0.6	0.7
60%	0.7	0.7	0.6	0.5	0.5	0.5	0.5	0.6	0.5	0.8	0.7	0.7
70%	0.6	0.7	0.7	0.6	0.5	0.5	0.5	0.6	0.6	0.7	0.7	0.6
80%	0.6	0.6	0.5	0.6	0.5	0.5	0.4	0.6	0.6	0.7	0.8	0.6
90%	0.6	0.6	0.4	0.7	0.6	0.7	0.5	0.6	0.6	0.7	0.6	0.7
Long Term												
Full Simulation Period[a]	0.7	0.7	0.6	0.6	0.6	0.6	0.5	0.6	0.4	0.6	0.6	0.7
Water Year Types[b]												
Wet (31%)	0.6	0.5	0.7	0.6	0.8	0.7	0.5	0.5	0.1	0.3	0.4	0.8
Above Normal (25%)	0.6	0.5	0.7	0.7	0.8	0.7	0.5	0.7	-0.1	0.1	0.5	1.0
Below Normal (6%)	1.0	1.2	0.4	0.6	0.4	0.5	0.5	0.5	0.5	0.6	0.8	0.7
Dry (13%)	0.8	0.9	0.5	0.7	0.5	0.5	0.5	0.6	0.6	0.6	0.7	0.7
Critical (25%)	0.6	0.7	0.6	0.5	0.5	0.6	0.5	0.6	0.6	1.0	0.7	0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-66-1-5. Old River at Tracy Blvd, Monthly Averaged Daily Maximum Elevation

No Action Alternative (ELT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.2	4.1	4.4	4.9	5.7	5.3	4.8	4.4	3.7	3.4	3.4	3.7
20%	3.0	3.0	3.4	4.0	4.3	4.5	4.1	3.8	3.7	3.2	3.2	3.3
30%	2.9	2.9	3.3	3.6	4.0	3.6	3.5	3.6	3.4	3.0	3.1	3.1
40%	2.9	2.8	3.3	3.5	3.4	3.4	3.3	3.5	3.3	2.9	3.0	3.1
50%	2.8	2.7	3.1	3.4	3.2	3.4	3.2	3.3	3.0	2.7	3.0	3.1
60%	2.8	2.7	3.0	3.4	3.2	3.3	3.2	3.2	3.0	2.6	3.0	3.0
70%	2.7	2.6	2.9	3.3	3.1	3.1	3.2	3.1	2.9	2.6	2.8	2.9
80%	2.6	2.6	2.6	3.1	3.0	3.0	3.1	3.0	2.8	2.5	2.7	2.8
90%	2.6	2.6	2.6	3.0	3.0	2.7	2.9	3.0	2.8	2.5	2.6	2.6
Long Term												
Full Simulation Period[a]	2.9	3.0	3.4	3.7	3.9	3.9	3.6	3.5	3.3	2.9	3.0	3.1
Water Year Types[b]												
Wet (31%)	3.2	3.8	4.6	4.6	5.4	5.8	4.6	4.4	4.1	3.7	3.4	3.7
Above Normal (25%)	2.8	2.5	3.0	4.5	4.9	4.1	3.8	3.8	3.5	3.1	2.9	2.9
Below Normal (6%)	2.6	2.7	2.6	3.5	3.4	3.4	3.4	3.5	3.1	2.4	2.7	2.5
Dry (13%)	2.9	2.8	2.9	3.2	3.1	3.1	3.2	3.2	3.0	2.6	2.8	2.8
Critical (25%)	2.8	2.8	3.1	3.2	3.1	2.9	3.0	3.0	2.9	2.7	3.1	3.0

Alternative 2D (ELT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.6	4.5	5.0	5.3	6.3	5.9	5.1	4.6	3.8	3.4	3.4	4.3
20%	3.2	3.4	3.4	4.2	5.1	4.8	4.0	3.8	3.6	3.2	3.3	4.0
30%	3.1	3.2	3.3	3.9	4.6	4.2	3.2	3.3	3.2	3.1	3.3	3.6
40%	3.0	3.1	3.3	3.5	3.3	3.6	3.1	3.2	3.1	3.1	3.2	3.2
50%	2.9	3.0	3.2	3.4	3.1	3.3	3.1	3.1	3.0	3.0	3.1	3.2
60%	2.9	3.0	3.1	3.4	3.0	3.0	3.1	3.1	2.9	3.0	3.1	3.2
70%	2.9	2.9	3.0	3.3	2.9	2.9	3.0	2.9	2.9	2.9	3.0	3.1
80%	2.9	2.9	3.0	3.3	2.9	2.9	2.9	2.9	2.8	2.7	2.9	3.0
90%	2.9	2.8	2.8	3.1	2.9	2.5	2.7	2.8	2.8	2.5	2.7	2.9
Long Term												
Full Simulation Period[a]	3.1	3.3	3.5	3.8	4.0	4.0	3.5	3.5	3.3	3.1	3.2	3.5
Water Year Types[b]												
Wet (31%)	3.4	4.3	5.0	4.9	5.9	6.3	4.8	4.5	4.2	3.8	3.6	4.4
Above Normal (25%)	2.9	2.8	3.0	4.8	5.5	4.6	3.8	3.7	3.5	3.1	3.1	3.6
Below Normal (6%)	2.9	3.2	2.6	3.5	3.3	3.6	3.2	3.2	2.9	3.0	3.1	2.9
Dry (13%)	3.0	3.1	3.1	3.2	3.0	3.0	2.9	3.0	2.9	2.6	2.9	3.1
Critical (25%)	3.0	3.0	3.1	3.2	2.9	2.8	2.9	2.9	2.8	2.9	3.1	3.1

Alternative 2D (ELT) minus No Action Alternative (ELT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.3	0.4	0.5	0.4	0.6	0.6	0.3	0.2	0.1	0.0	0.0	0.6
20%	0.2	0.5	0.0	0.2	0.7	0.3	**0.0**	**-0.1**	**-0.1**	**0.0**	0.2	0.7
30%	0.1	0.4	0.0	0.3	0.6	0.6	**-0.3**	**-0.2**	**-0.2**	0.1	0.2	0.5
40%	0.1	0.2	0.0	**-0.1**	**-0.1**	0.2	**-0.2**	**-0.2**	**-0.1**	0.1	0.2	0.1
50%	0.1	0.3	0.1	**0.0**	**-0.1**	**-0.1**	**-0.2**	**-0.2**	**-0.1**	0.3	0.1	0.1
60%	0.2	0.3	0.1	**0.0**	**-0.2**	**-0.2**	**-0.1**	**-0.1**	**-0.1**	0.3	0.1	0.2
70%	0.2	0.3	0.0	0.0	**-0.1**	**-0.1**	**-0.2**	**-0.2**	**0.0**	0.3	0.2	0.2
80%	0.2	0.3	0.3	0.1	**-0.1**	**-0.1**	**-0.2**	**-0.1**	0.0	0.2	0.2	0.1
90%	0.2	0.2	0.2	0.1	**-0.1**	**-0.2**	**-0.2**	**-0.2**	**0.0**	0.1	0.1	0.3
Long Term												
Full Simulation Period[a]	0.2	0.3	0.2	0.1	0.1	0.1	**-0.1**	**-0.1**	**0.0**	0.2	0.1	0.4
Water Year Types[b]												
Wet (31%)	0.2	0.4	0.4	0.3	0.6	0.5	0.2	0.1	0.1	0.1	0.3	0.7
Above Normal (25%)	0.1	0.3	0.0	0.3	0.6	0.5	**0.0**	**-0.1**	**0.0**	**0.0**	0.2	0.7
Below Normal (6%)	0.3	0.5	0.1	**-0.1**	**-0.1**	0.2	**-0.3**	**-0.2**	**-0.1**	0.6	0.4	0.4
Dry (13%)	0.1	0.3	0.3	0.0	**-0.1**	**-0.2**	**-0.2**	**-0.2**	**0.0**	0.1	0.1	0.3
Critical (25%)	0.2	0.2	**0.0**	**0.0**	**-0.2**	**-0.1**	**-0.1**	**-0.1**	**0.0**	0.2	**0.0**	0.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-66-1-6. Old River at Tracy Blvd, Monthly Averaged Daily Maximum Elevation

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.2	4.1	4.4	4.9	5.7	5.3	4.8	4.4	3.7	3.4	3.4	3.7
20%	3.0	3.0	3.4	4.0	4.3	4.5	4.1	3.8	3.7	3.2	3.2	3.3
30%	2.9	2.9	3.3	3.6	4.0	3.6	3.5	3.6	3.4	3.0	3.1	3.1
40%	2.9	2.8	3.3	3.5	3.4	3.4	3.3	3.5	3.3	2.9	3.0	3.1
50%	2.8	2.7	3.1	3.4	3.2	3.4	3.2	3.3	3.0	2.7	3.0	3.1
60%	2.8	2.7	3.0	3.4	3.2	3.3	3.2	3.2	3.0	2.6	3.0	3.0
70%	2.7	2.6	2.9	3.3	3.1	3.1	3.2	3.1	2.9	2.6	2.8	2.9
80%	2.6	2.6	2.6	3.1	3.0	3.0	3.1	3.0	2.8	2.5	2.7	2.8
90%	2.6	2.6	2.6	3.0	3.0	2.7	2.9	3.0	2.8	2.5	2.6	2.6
Long Term												
Full Simulation Period[a]	2.9	3.0	3.4	3.7	3.9	3.9	3.6	3.5	3.3	2.9	3.0	3.1
Water Year Types[b]												
Wet (31%)	3.2	3.8	4.6	4.6	5.4	5.8	4.6	4.4	4.1	3.7	3.4	3.7
Above Normal (25%)	2.8	2.5	3.0	4.5	4.9	4.1	3.8	3.8	3.5	3.1	2.9	2.9
Below Normal (6%)	2.6	2.7	2.6	3.5	3.4	3.4	3.4	3.5	3.1	2.4	2.7	2.5
Dry (13%)	2.9	2.8	2.9	3.2	3.1	3.1	3.2	3.2	3.0	2.6	2.8	2.8
Critical (25%)	2.8	2.8	3.1	3.2	3.1	2.9	3.0	3.0	2.9	2.7	3.1	3.0

Alternative 4A (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.4	4.4	4.7	5.0	6.1	5.8	5.2	4.7	3.8	3.6	3.4	4.1
20%	3.2	3.5	3.4	3.8	4.8	4.8	4.1	3.8	3.6	3.4	3.3	3.7
30%	3.1	3.2	3.3	3.5	4.1	3.9	3.3	3.4	3.3	3.2	3.2	3.4
40%	3.0	3.1	3.3	3.5	3.3	3.4	3.2	3.3	3.1	3.2	3.2	3.2
50%	2.9	3.0	3.2	3.4	3.2	3.3	3.1	3.2	3.0	3.1	3.1	3.2
60%	2.9	3.0	3.1	3.4	3.1	3.1	3.1	3.1	2.9	3.1	3.1	3.2
70%	2.9	3.0	3.0	3.3	3.0	3.0	3.1	3.0	2.9	3.0	3.0	3.1
80%	2.9	2.9	3.0	3.2	3.0	2.9	2.9	3.0	2.8	3.0	3.0	3.0
90%	2.9	2.8	2.8	3.1	2.9	2.6	2.7	2.8	2.7	2.9	2.9	2.9
Long Term												
Full Simulation Period[a]	3.1	3.3	3.5	3.8	4.0	4.0	3.5	3.5	3.3	3.3	3.2	3.4
Water Year Types[b]												
Wet (31%)	3.3	4.1	4.9	4.8	5.7	6.2	4.7	4.5	4.2	3.9	3.6	4.2
Above Normal (25%)	2.9	2.8	3.0	4.2	5.3	4.5	3.9	3.8	3.5	3.4	3.2	3.4
Below Normal (6%)	2.9	3.2	2.6	3.5	3.3	3.4	3.2	3.3	2.9	2.8	3.1	3.0
Dry (13%)	3.1	3.2	3.2	3.2	3.0	3.0	3.0	3.1	2.9	3.1	3.0	3.1
Critical (25%)	3.0	3.1	3.1	3.2	3.0	2.8	2.9	3.0	2.8	3.0	3.0	3.0

Alternative 4A (ELT) minus No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.2	0.3	0.3	0.1	0.4	0.5	0.4	0.3	0.1	0.2	**0.0**	0.5
20%	0.2	0.5	0.1	**-0.2**	0.5	0.4	0.0	**0.0**	**0.0**	0.2	0.1	0.4
30%	0.2	0.4	0.0	**-0.1**	0.1	0.3	**-0.2**	**-0.2**	**-0.1**	0.2	0.1	0.2
40%	0.1	0.3	0.0	**-0.1**	**-0.1**	0.0	**-0.1**	**-0.2**	**-0.1**	0.3	0.1	0.1
50%	0.2	0.3	0.1	0.0	**-0.1**	**-0.1**	**-0.1**	**-0.1**	**0.0**	0.4	0.1	0.1
60%	0.2	0.3	0.1	0.0	**-0.1**	**-0.2**	**-0.1**	**-0.1**	**0.0**	0.5	0.1	0.2
70%	0.2	0.3	0.1	**0.0**	**-0.1**	**-0.1**	**-0.1**	**-0.1**	**0.0**	0.4	0.2	0.2
80%	0.3	0.3	0.4	0.1	**-0.1**	**-0.1**	**-0.2**	**-0.1**	0.0	0.5	0.3	0.2
90%	0.3	0.2	0.2	0.1	**-0.1**	**-0.1**	**-0.2**	**-0.1**	**-0.1**	0.4	0.3	0.3
Long Term												
Full Simulation Period[a]	0.2	0.3	0.2	0.0	0.1	0.1	**0.0**	**0.0**	**0.0**	0.3	0.2	0.3
Water Year Types[b]												
Wet (31%)	0.1	0.3	0.3	0.2	0.3	0.4	0.1	0.2	0.1	0.2	0.3	0.5
Above Normal (25%)	0.1	0.3	0.0	**-0.2**	0.4	0.4	0.1	**-0.1**	**0.0**	0.3	0.3	0.5
Below Normal (6%)	0.3	0.5	0.1	**-0.1**	**-0.1**	0.0	**-0.2**	**-0.2**	**-0.1**	0.4	0.5	0.4
Dry (13%)	0.2	0.3	0.3	0.0	**0.0**	**-0.2**	**-0.2**	**-0.1**	**0.0**	0.5	0.2	0.3
Critical (25%)	0.2	0.2	0.0	**0.0**	**-0.1**	**-0.1**	**-0.1**	**-0.1**	**-0.1**	0.3	**-0.1**	0.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-66-1-7. Old River at Tracy Blvd, Monthly Averaged Daily Maximum Elevation

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.2	4.1	4.4	4.9	5.7	5.3	4.8	4.4	3.7	3.4	3.4	3.7
20%	3.0	3.0	3.4	4.0	4.3	4.5	4.1	3.8	3.7	3.2	3.2	3.3
30%	2.9	2.9	3.3	3.6	4.0	3.6	3.5	3.6	3.4	3.0	3.1	3.1
40%	2.9	2.8	3.3	3.5	3.4	3.4	3.3	3.5	3.3	2.9	3.0	3.1
50%	2.8	2.7	3.1	3.4	3.2	3.4	3.2	3.3	3.0	2.7	3.0	3.1
60%	2.8	2.7	3.0	3.4	3.2	3.3	3.2	3.2	3.0	2.6	3.0	3.0
70%	2.7	2.6	2.9	3.3	3.1	3.1	3.2	3.1	2.9	2.6	2.8	2.9
80%	2.6	2.6	2.6	3.1	3.0	3.0	3.1	3.0	2.8	2.5	2.7	2.8
90%	2.6	2.6	2.6	3.0	3.0	2.7	2.9	3.0	2.8	2.5	2.6	2.6
Long Term												
Full Simulation Period[a]	2.9	3.0	3.4	3.7	3.9	3.9	3.6	3.5	3.3	2.9	3.0	3.1
Water Year Types[b]												
Wet (31%)	3.2	3.8	4.6	4.6	5.4	5.8	4.6	4.4	4.1	3.7	3.4	3.7
Above Normal (25%)	2.8	2.5	3.0	4.5	4.9	4.1	3.8	3.8	3.5	3.1	2.9	2.9
Below Normal (6%)	2.6	2.7	2.6	3.5	3.4	3.4	3.4	3.5	3.1	2.4	2.7	2.5
Dry (13%)	2.9	2.8	2.9	3.2	3.1	3.1	3.2	3.2	3.0	2.6	2.8	2.8
Critical (25%)	2.8	2.8	3.1	3.2	3.1	2.9	3.0	3.0	2.9	2.7	3.1	3.0

Alternative 5A (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.4	4.3	4.5	5.0	5.8	5.4	4.8	4.3	3.7	3.4	3.4	3.9
20%	3.3	3.3	3.3	3.9	4.4	4.5	4.0	3.8	3.6	3.2	3.4	3.9
30%	3.0	3.2	3.2	3.5	4.0	3.7	3.4	3.5	3.3	3.1	3.3	3.4
40%	2.9	3.0	3.2	3.5	3.4	3.4	3.2	3.4	3.2	3.0	3.2	3.1
50%	2.8	2.8	3.1	3.4	3.2	3.4	3.2	3.3	3.1	3.0	3.1	3.1
60%	2.8	2.8	3.0	3.3	3.2	3.2	3.2	3.2	2.9	2.8	3.0	3.1
70%	2.8	2.8	2.9	3.2	3.0	3.1	3.1	3.1	2.9	2.7	3.0	3.0
80%	2.7	2.6	2.7	3.1	3.0	3.0	3.0	3.0	2.9	2.6	2.9	2.9
90%	2.7	2.6	2.6	3.1	3.0	2.7	2.8	2.9	2.8	2.5	2.7	2.9
Long Term												
Full Simulation Period[a]	3.0	3.2	3.4	3.7	3.9	3.9	3.5	3.5	3.3	3.0	3.1	3.3
Water Year Types[b]												
Wet (31%)	3.2	3.9	4.6	4.6	5.4	5.9	4.6	4.3	4.1	3.7	3.5	4.0
Above Normal (25%)	2.8	2.5	3.0	4.4	4.9	4.2	3.8	3.8	3.5	3.1	3.0	3.3
Below Normal (6%)	2.9	3.3	2.6	3.5	3.4	3.4	3.4	3.4	3.0	2.5	3.1	2.8
Dry (13%)	3.1	3.0	2.9	3.2	3.0	3.2	3.1	3.2	3.0	2.5	2.9	3.0
Critical (25%)	2.8	2.9	3.1	3.2	3.1	2.9	3.0	3.0	2.9	2.9	3.1	3.0

Alternative 5A (ELT) minus No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.1	0.2	0.0	0.0	0.1	0.1	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	0.3
20%	0.3	0.4	**-0.1**	**0.0**	0.0	0.1	**0.0**	**0.0**	**-0.1**	0.0	0.2	0.6
30%	0.0	0.4	**0.0**	**0.0**	0.0	0.1	**0.0**	**0.0**	**-0.1**	0.1	0.2	0.2
40%	0.0	0.1	**0.0**	**0.0**	**0.0**	0.0	**-0.1**	**0.0**	**0.0**	0.1	0.1	**0.0**
50%	0.1	0.1	0.0	**0.0**	**0.0**	**0.0**	**-0.1**	**0.0**	0.0	0.2	0.1	0.0
60%	0.0	0.1	0.0	**-0.1**	0.0	**0.0**	**0.0**	0.1	**0.0**	0.2	0.0	0.1
70%	0.0	0.2	**0.0**	**-0.1**	**0.0**	0.0	**-0.1**	0.0	**0.0**	0.1	0.2	0.1
80%	0.1	0.0	0.1	**0.0**	**0.0**	**0.0**	**-0.1**	**0.0**	0.0	0.1	0.2	0.1
90%	0.1	0.0	**0.0**	0.1	**0.0**	0.0	**-0.1**	**0.0**	0.0	0.0	0.0	0.2
Long Term												
Full Simulation Period[a]	0.1	0.1	**0.0**	**0.0**	0.0	0.0	**0.0**	**0.0**	**0.0**	0.1	0.1	0.2
Water Year Types[b]												
Wet (31%)	0.0	0.1	0.0	0.1	0.1	0.1	**0.0**	**0.0**	**0.0**	0.0	0.1	0.3
Above Normal (25%)	**0.0**	0.0	0.0	**-0.1**	0.0	0.1	**0.0**	**0.0**	**-0.1**	**0.0**	0.2	0.4
Below Normal (6%)	0.3	0.6	**0.0**	**0.0**	**0.0**	0.0	**0.0**	**0.0**	**0.0**	0.1	0.4	0.3
Dry (13%)	0.2	0.2	0.0	0.1	**-0.1**	0.0	**-0.1**	**0.0**	0.0	**0.0**	0.1	0.2
Critical (25%)	0.0	0.1	**0.0**	**-0.1**	0.0	**0.0**	**0.0**	0.0	0.0	0.2	0.0	**0.0**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-66-2-1. Old River at Tracy Blvd, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	2.6	1.2	1.7	2.7	3.1	2.3	1.8	3.2	2.8	2.0	2.3
20%	1.6	1.5	-0.4	0.3	1.6	1.6	1.0	1.0	3.0	2.0	1.8	1.7
30%	1.5	1.3	-0.5	0.0	0.6	0.6	0.2	0.5	2.3	1.6	1.6	1.6
40%	1.4	1.3	-0.6	-0.3	0.3	0.2	-0.1	0.1	1.7	1.1	1.5	1.4
50%	1.4	1.3	-0.7	-0.4	-0.3	-0.2	-0.3	-0.1	1.2	1.1	1.3	1.4
60%	1.4	1.2	-0.7	-0.5	-0.4	-0.3	-0.4	-0.2	1.1	1.1	1.2	1.4
70%	1.3	1.2	-0.7	-0.5	-0.5	-0.5	-0.5	-0.3	1.0	0.9	1.2	1.3
80%	1.2	1.2	-0.8	-0.6	-0.5	-0.6	-0.6	-0.4	0.9	0.8	1.1	1.3
90%	1.2	1.2	-0.9	-0.7	-0.6	-0.7	-0.7	-0.4	0.9	0.8	1.1	1.3
Long Term												
Full Simulation Period[a]	1.5	1.6	-0.2	0.1	0.6	0.8	0.3	0.4	1.8	1.5	1.5	1.6
Water Year Types[b]												
Wet (31%)	1.8	2.5	1.3	1.4	2.6	3.5	2.1	1.8	3.0	2.4	2.2	2.4
Above Normal (25%)	1.3	1.2	-0.7	0.9	1.9	1.3	0.8	0.8	3.1	2.4	1.8	1.6
Below Normal (6%)	1.2	1.3	-0.8	-0.1	0.3	0.5	0.1	0.6	1.7	1.1	1.5	1.4
Dry (13%)	1.4	1.3	-0.7	-0.6	-0.5	-0.4	-0.5	-0.2	1.1	1.0	1.2	1.3
Critical (25%)	1.3	1.3	-0.7	-0.6	-0.5	-0.6	-0.6	-0.4	1.0	0.8	1.2	1.3

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.0	2.9	1.6	2.4	3.7	3.6	2.7	2.3	2.8	2.5	2.0	2.5
20%	1.8	1.6	0.0	0.6	2.0	2.2	1.5	1.3	2.6	1.9	1.8	1.9
30%	1.7	1.6	-0.1	0.3	1.1	0.9	0.6	1.0	2.2	1.7	1.7	1.8
40%	1.7	1.6	-0.2	0.1	0.5	0.6	0.2	0.4	1.8	1.4	1.7	1.7
50%	1.6	1.5	-0.2	0.0	-0.1	0.2	0.1	0.3	1.4	1.3	1.6	1.6
60%	1.6	1.4	-0.3	-0.1	-0.1	0.0	-0.1	0.2	1.3	1.3	1.6	1.6
70%	1.6	1.4	-0.3	-0.1	-0.1	-0.1	-0.1	0.1	1.3	1.3	1.5	1.6
80%	1.4	1.4	-0.4	-0.2	-0.1	-0.3	-0.2	0.0	1.2	1.1	1.4	1.5
90%	1.4	1.4	-0.6	-0.3	-0.2	-0.3	-0.3	0.0	1.2	1.1	1.4	1.5
Long Term												
Full Simulation Period[a]	1.7	1.8	0.3	0.6	1.1	1.2	0.7	0.8	1.9	1.6	1.7	1.8
Water Year Types[b]												
Wet (31%)	2.1	2.7	2.0	1.9	3.3	4.0	2.4	2.1	2.8	2.2	2.2	2.5
Above Normal (25%)	1.6	1.4	-0.2	1.4	2.5	1.8	1.1	1.5	2.7	2.1	1.8	1.8
Below Normal (6%)	1.6	1.6	-0.5	0.3	0.5	0.7	0.5	0.9	1.8	1.3	1.6	1.5
Dry (13%)	1.7	1.6	-0.4	-0.2	-0.2	-0.1	-0.1	0.2	1.3	1.2	1.5	1.6
Critical (25%)	1.5	1.5	-0.2	-0.2	-0.1	-0.2	-0.2	0.0	1.2	1.2	1.5	1.6

No Action Alternative (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.2	0.3	0.4	0.7	1.0	0.5	0.3	0.5	**-0.5**	**-0.4**	**0.0**	0.2
20%	0.2	0.2	0.4	0.4	0.4	0.5	0.5	0.3	**-0.4**	**-0.1**	0.1	0.2
30%	0.2	0.3	0.4	0.4	0.4	0.3	0.4	0.4	**-0.1**	0.2	0.1	0.2
40%	0.3	0.3	0.4	0.4	0.3	0.4	0.3	0.3	0.1	0.2	0.2	0.3
50%	0.2	0.3	0.5	0.4	0.3	0.4	0.4	0.4	0.3	0.2	0.3	0.2
60%	0.2	0.2	0.4	0.4	0.4	0.3	0.4	0.4	0.2	0.2	0.3	0.2
70%	0.3	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.2
80%	0.2	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3
90%	0.2	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3
Long Term												
Full Simulation Period[a]	0.2	0.2	0.4	0.4	0.5	0.4	0.4	0.4	0.1	0.1	0.2	0.2
Water Year Types[b]												
Wet (31%)	0.3	0.2	0.6	0.5	0.7	0.5	0.4	0.3	**-0.2**	**-0.1**	**0.0**	0.1
Above Normal (25%)	0.2	0.2	0.5	0.5	0.7	0.5	0.4	0.7	**-0.4**	**-0.3**	0.0	0.2
Below Normal (6%)	0.3	0.3	0.3	0.4	0.3	0.2	0.4	0.3	0.1	0.2	0.1	0.1
Dry (13%)	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.2	0.3	0.2
Critical (25%)	0.2	0.2	0.4	0.4	0.3	0.4	0.4	0.4	0.3	0.4	0.3	0.3

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

Table C-66-2-2. Old River at Tracy Blvd, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	2.6	1.2	1.7	2.7	3.1	2.3	1.8	3.2	2.8	2.0	2.3
20%	1.6	1.5	-0.4	0.3	1.6	1.6	1.0	1.0	3.0	2.0	1.8	1.7
30%	1.5	1.3	-0.5	0.0	0.6	0.6	0.2	0.5	2.3	1.6	1.6	1.6
40%	1.4	1.3	-0.6	-0.3	0.3	0.2	-0.1	0.1	1.7	1.1	1.5	1.4
50%	1.4	1.3	-0.7	-0.4	-0.3	-0.2	-0.3	-0.1	1.2	1.1	1.3	1.4
60%	1.4	1.2	-0.7	-0.5	-0.4	-0.3	-0.4	-0.2	1.1	1.1	1.2	1.4
70%	1.3	1.2	-0.7	-0.5	-0.5	-0.5	-0.5	-0.3	1.0	0.9	1.2	1.3
80%	1.2	1.2	-0.8	-0.6	-0.5	-0.6	-0.6	-0.4	0.9	0.8	1.1	1.3
90%	1.2	1.2	-0.9	-0.7	-0.6	-0.7	-0.7	-0.4	0.9	0.8	1.1	1.3
Long Term												
Full Simulation Period[a]	1.5	1.6	-0.2	0.1	0.6	0.8	0.3	0.4	1.8	1.5	1.5	1.6
Water Year Types[b]												
Wet (31%)	1.8	2.5	1.3	1.4	2.6	3.5	2.1	1.8	3.0	2.4	2.2	2.4
Above Normal (25%)	1.3	1.2	-0.7	0.9	1.9	1.3	0.8	0.8	3.1	2.4	1.8	1.6
Below Normal (6%)	1.2	1.3	-0.8	-0.1	0.3	0.5	0.1	0.6	1.7	1.1	1.5	1.4
Dry (13%)	1.4	1.3	-0.7	-0.6	-0.5	-0.4	-0.5	-0.2	1.1	1.0	1.2	1.3
Critical (25%)	1.3	1.3	-0.7	-0.6	-0.5	-0.6	-0.6	-0.4	1.0	0.8	1.2	1.3

Alternative 2D (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.9	3.0	2.0	2.6	4.0	4.0	2.9	2.5	2.6	2.5	2.1	2.7
20%	1.8	1.9	0.0	0.6	2.5	2.6	1.4	1.1	2.3	1.9	2.0	2.3
30%	1.7	1.8	-0.1	0.4	1.3	0.9	0.2	0.6	2.0	1.7	1.8	2.1
40%	1.6	1.8	-0.2	0.0	0.4	0.6	0.0	0.2	1.6	1.5	1.7	1.8
50%	1.6	1.7	-0.2	0.0	-0.1	0.1	-0.1	0.1	1.4	1.4	1.7	1.8
60%	1.6	1.6	-0.2	-0.1	-0.1	-0.1	-0.1	0.1	1.4	1.3	1.5	1.7
70%	1.6	1.6	-0.2	-0.1	-0.1	-0.2	-0.2	0.0	1.3	1.3	1.5	1.6
80%	1.5	1.5	-0.3	-0.1	-0.2	-0.3	-0.3	0.0	1.2	1.3	1.5	1.6
90%	1.4	1.4	-0.4	-0.2	-0.3	-0.3	-0.4	-0.1	1.2	1.2	1.4	1.5
Long Term												
Full Simulation Period[a]	1.7	1.9	0.4	0.6	1.2	1.3	0.6	0.7	1.8	1.7	1.8	2.0
Water Year Types[b]												
Wet (31%)	1.9	2.9	2.2	2.1	3.6	4.3	2.5	2.1	2.8	2.3	2.3	2.7
Above Normal (25%)	1.5	1.5	-0.2	1.5	2.8	2.0	1.0	1.2	2.4	2.1	1.9	2.1
Below Normal (6%)	1.6	1.8	-0.4	0.2	0.4	0.6	0.2	0.6	1.6	1.5	1.7	1.7
Dry (13%)	1.6	1.7	-0.2	-0.2	-0.2	-0.1	-0.2	0.0	1.3	1.3	1.5	1.7
Critical (25%)	1.5	1.6	-0.2	-0.2	-0.2	-0.2	-0.3	0.0	1.2	1.3	1.5	1.6

Alternative 2D (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.2	0.4	0.8	1.0	1.3	0.9	0.5	0.7	**-0.7**	**-0.4**	0.1	0.4
20%	0.2	0.4	0.4	0.3	0.9	1.0	0.4	0.1	**-0.7**	**-0.1**	0.2	0.6
30%	0.2	0.5	0.4	0.4	0.7	0.4	0.0	0.0	**-0.4**	0.2	0.2	0.5
40%	0.2	0.5	0.4	0.4	0.1	0.4	0.1	0.1	**0.0**	0.4	0.2	0.4
50%	0.2	0.4	0.5	0.4	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.4
60%	0.2	0.4	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
70%	0.3	0.3	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3
80%	0.2	0.3	0.5	0.5	0.3	0.4	0.3	0.3	0.3	0.4	0.3	0.3
90%	0.2	0.2	0.4	0.4	0.3	0.4	0.3	0.3	0.3	0.4	0.3	0.3
Long Term												
Full Simulation Period[a]	0.2	0.4	0.6	0.5	0.5	0.5	0.3	0.3	0.0	0.2	0.2	0.4
Water Year Types[b]												
Wet (31%)	0.1	0.4	0.9	0.7	1.0	0.8	0.4	0.3	**-0.2**	**0.0**	0.1	0.3
Above Normal (25%)	0.2	0.3	0.5	0.6	1.0	0.7	0.2	0.5	**-0.7**	**-0.3**	0.1	0.5
Below Normal (6%)	0.3	0.5	0.3	0.3	0.1	0.1	0.0	0.0	**0.0**	0.5	0.2	0.3
Dry (13%)	0.2	0.4	0.5	0.5	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.4
Critical (25%)	0.2	0.3	0.4	0.4	0.3	0.4	0.3	0.3	0.3	0.5	0.3	0.3

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-66-2-3. Old River at Tracy Blvd, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	2.6	1.2	1.7	2.7	3.1	2.3	1.8	3.2	2.8	2.0	2.3
20%	1.6	1.5	-0.4	0.3	1.6	1.6	1.0	1.0	3.0	2.0	1.8	1.7
30%	1.5	1.3	-0.5	0.0	0.6	0.6	0.2	0.5	2.3	1.6	1.6	1.6
40%	1.4	1.3	-0.6	-0.3	0.3	0.2	-0.1	0.1	1.7	1.1	1.5	1.4
50%	1.4	1.3	-0.7	-0.4	-0.3	-0.2	-0.3	-0.1	1.2	1.1	1.3	1.4
60%	1.4	1.2	-0.7	-0.5	-0.4	-0.3	-0.4	-0.2	1.1	1.1	1.2	1.4
70%	1.3	1.2	-0.7	-0.5	-0.5	-0.5	-0.5	-0.3	1.0	0.9	1.2	1.3
80%	1.2	1.2	-0.8	-0.6	-0.5	-0.6	-0.6	-0.4	0.9	0.8	1.1	1.3
90%	1.2	1.2	-0.9	-0.7	-0.6	-0.7	-0.7	-0.4	0.9	0.8	1.1	1.3
Long Term												
Full Simulation Period[a]	1.5	1.6	-0.2	0.1	0.6	0.8	0.3	0.4	1.8	1.5	1.5	1.6
Water Year Types[b]												
Wet (31%)	1.8	2.5	1.3	1.4	2.6	3.5	2.1	1.8	3.0	2.4	2.2	2.4
Above Normal (25%)	1.3	1.2	-0.7	0.9	1.9	1.3	0.8	0.8	3.1	2.4	1.8	1.6
Below Normal (6%)	1.2	1.3	-0.8	-0.1	0.3	0.5	0.1	0.6	1.7	1.1	1.5	1.4
Dry (13%)	1.4	1.3	-0.7	-0.6	-0.5	-0.4	-0.5	-0.2	1.1	1.0	1.2	1.3
Critical (25%)	1.3	1.3	-0.7	-0.6	-0.5	-0.6	-0.6	-0.4	1.0	0.8	1.2	1.3

Alternative 4A (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.9	2.9	1.8	2.4	4.0	4.0	2.9	2.5	2.6	2.6	2.1	2.6
20%	1.8	1.9	0.0	0.5	2.5	2.6	1.4	1.1	2.3	2.0	2.0	2.2
30%	1.7	1.8	-0.1	0.2	1.1	0.9	0.2	0.6	2.0	1.8	1.8	2.1
40%	1.6	1.8	-0.2	0.0	0.4	0.5	0.0	0.2	1.6	1.6	1.7	1.8
50%	1.6	1.7	-0.2	0.0	-0.1	0.0	-0.1	0.1	1.4	1.5	1.7	1.8
60%	1.6	1.6	-0.2	-0.1	-0.1	-0.1	-0.2	0.1	1.4	1.5	1.6	1.7
70%	1.6	1.6	-0.2	-0.1	-0.1	-0.2	-0.2	0.0	1.3	1.4	1.5	1.6
80%	1.5	1.5	-0.3	-0.1	-0.2	-0.3	-0.2	0.0	1.2	1.3	1.5	1.6
90%	1.4	1.4	-0.4	-0.2	-0.3	-0.4	-0.4	-0.1	1.2	1.2	1.4	1.5
Long Term												
Full Simulation Period[a]	1.7	1.9	0.4	0.6	1.1	1.2	0.6	0.7	1.8	1.7	1.8	2.0
Water Year Types[b]												
Wet (31%)	1.9	2.8	2.1	2.0	3.5	4.3	2.5	2.1	2.8	2.4	2.3	2.7
Above Normal (25%)	1.5	1.5	-0.2	1.2	2.8	2.0	1.0	1.2	2.4	2.2	1.9	2.1
Below Normal (6%)	1.6	1.8	-0.5	0.2	0.4	0.6	0.1	0.6	1.6	1.5	1.7	1.7
Dry (13%)	1.6	1.7	-0.2	-0.2	-0.2	-0.1	-0.2	0.1	1.4	1.4	1.5	1.7
Critical (25%)	1.5	1.6	-0.2	-0.2	-0.2	-0.2	-0.3	0.0	1.2	1.3	1.5	1.6

Alternative 4A (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.1	0.4	0.5	0.8	1.3	0.9	0.5	0.7	**-0.7**	**-0.3**	0.0	0.3
20%	0.2	0.4	0.4	0.2	0.9	1.0	0.4	0.1	**-0.7**	0.0	0.2	0.5
30%	0.2	0.5	0.4	0.3	0.4	0.3	0.0	0.0	**-0.4**	0.2	0.2	0.5
40%	0.2	0.5	0.4	0.4	0.1	0.3	0.1	0.1	**0.0**	0.4	0.2	0.4
50%	0.2	0.4	0.5	0.4	0.2	0.3	0.2	0.2	0.3	0.4	0.3	0.4
60%	0.2	0.4	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3
70%	0.3	0.3	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3
80%	0.2	0.3	0.5	0.5	0.4	0.3	0.4	0.3	0.3	0.5	0.4	0.3
90%	0.2	0.2	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.5	0.3	0.3
Long Term												
Full Simulation Period[a]	0.2	0.3	0.5	0.4	0.5	0.5	0.3	0.3	0.0	0.3	0.2	0.3
Water Year Types[b]												
Wet (31%)	0.0	0.3	0.8	0.6	0.9	0.7	0.4	0.3	**-0.2**	**0.0**	0.1	0.3
Above Normal (25%)	0.2	0.3	0.5	0.4	0.9	0.7	0.2	0.5	**-0.7**	**-0.2**	0.1	0.5
Below Normal (6%)	0.3	0.5	0.3	0.3	0.1	0.1	0.0	0.0	**0.0**	0.4	0.2	0.3
Dry (13%)	0.2	0.4	0.5	0.4	0.3	0.3	0.2	0.3	0.3	0.4	0.4	0.4
Critical (25%)	0.2	0.3	0.4	0.4	0.3	0.4	0.3	0.3	0.3	0.5	0.3	0.3

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-66-2-4. Old River at Tracy Blvd, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	2.6	1.2	1.7	2.7	3.1	2.3	1.8	3.2	2.8	2.0	2.3
20%	1.6	1.5	-0.4	0.3	1.6	1.6	1.0	1.0	3.0	2.0	1.8	1.7
30%	1.5	1.3	-0.5	0.0	0.6	0.6	0.2	0.5	2.3	1.6	1.6	1.6
40%	1.4	1.3	-0.6	-0.3	0.3	0.2	-0.1	0.1	1.7	1.1	1.5	1.4
50%	1.4	1.3	-0.7	-0.4	-0.3	-0.2	-0.3	-0.1	1.2	1.1	1.3	1.4
60%	1.4	1.2	-0.7	-0.5	-0.4	-0.3	-0.4	-0.2	1.1	1.1	1.2	1.4
70%	1.3	1.2	-0.7	-0.5	-0.5	-0.5	-0.5	-0.3	1.0	0.9	1.2	1.3
80%	1.2	1.2	-0.8	-0.6	-0.5	-0.6	-0.6	-0.4	0.9	0.8	1.1	1.3
90%	1.2	1.2	-0.9	-0.7	-0.6	-0.7	-0.7	-0.4	0.9	0.8	1.1	1.3
Long Term												
Full Simulation Period[a]	1.5	1.6	-0.2	0.1	0.6	0.8	0.3	0.4	1.8	1.5	1.5	1.6
Water Year Types[b]												
Wet (31%)	1.8	2.5	1.3	1.4	2.6	3.5	2.1	1.8	3.0	2.4	2.2	2.4
Above Normal (25%)	1.3	1.2	-0.7	0.9	1.9	1.3	0.8	0.8	3.1	2.4	1.8	1.6
Below Normal (6%)	1.2	1.3	-0.8	-0.1	0.3	0.5	0.1	0.6	1.7	1.1	1.5	1.4
Dry (13%)	1.4	1.3	-0.7	-0.6	-0.5	-0.4	-0.5	-0.2	1.1	1.0	1.2	1.3
Critical (25%)	1.3	1.3	-0.7	-0.6	-0.5	-0.6	-0.6	-0.4	1.0	0.8	1.2	1.3

Alternative 5A (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.0	2.9	1.8	2.5	3.8	3.8	2.7	2.3	2.8	2.5	2.1	2.6
20%	2.0	1.8	0.0	0.7	2.1	2.2	1.5	1.3	2.6	1.9	2.0	2.2
30%	1.8	1.8	-0.2	0.3	1.1	0.9	0.6	1.0	2.2	1.7	1.8	2.0
40%	1.7	1.6	-0.2	0.1	0.5	0.7	0.2	0.4	1.8	1.3	1.7	1.7
50%	1.6	1.5	-0.2	-0.1	0.0	0.2	0.1	0.3	1.4	1.3	1.7	1.7
60%	1.6	1.5	-0.2	-0.1	-0.1	0.0	-0.1	0.2	1.4	1.3	1.6	1.7
70%	1.6	1.4	-0.3	-0.2	-0.1	-0.1	-0.1	0.1	1.3	1.3	1.5	1.6
80%	1.5	1.4	-0.4	-0.2	-0.1	-0.2	-0.2	0.0	1.2	1.3	1.5	1.6
90%	1.4	1.4	-0.5	-0.3	-0.2	-0.3	-0.3	0.0	1.2	1.2	1.4	1.5
Long Term												
Full Simulation Period[a]	1.8	1.9	0.3	0.6	1.1	1.3	0.7	0.8	1.9	1.6	1.7	1.9
Water Year Types[b]												
Wet (31%)	2.1	2.7	2.0	2.0	3.3	4.2	2.5	2.1	2.8	2.3	2.2	2.6
Above Normal (25%)	1.5	1.4	-0.2	1.4	2.6	1.9	1.2	1.5	2.7	2.1	1.9	2.0
Below Normal (6%)	1.7	1.8	-0.5	0.3	0.5	0.8	0.5	0.9	1.8	1.3	1.7	1.7
Dry (13%)	1.8	1.6	-0.4	-0.2	-0.2	0.0	-0.1	0.2	1.4	1.2	1.5	1.7
Critical (25%)	1.6	1.5	-0.2	-0.2	-0.1	-0.2	-0.2	0.0	1.2	1.3	1.5	1.6

Alternative 5A (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.3	0.3	0.5	0.8	1.1	0.7	0.3	0.5	**-0.5**	**-0.4**	0.0	0.3
20%	0.4	0.3	0.4	0.4	0.4	0.6	0.4	0.3	**-0.4**	**-0.1**	0.2	0.5
30%	0.3	0.4	0.4	0.4	0.5	0.4	0.4	0.5	**-0.1**	0.2	0.1	0.4
40%	0.2	0.3	0.4	0.4	0.3	0.5	0.3	0.3	0.1	0.2	0.2	0.3
50%	0.3	0.3	0.5	0.4	0.3	0.4	0.4	0.4	0.3	0.2	0.3	0.3
60%	0.2	0.3	0.5	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3
70%	0.3	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.3	0.3
80%	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.5	0.4	0.3
90%	0.2	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.5	0.3	0.3
Long Term												
Full Simulation Period[a]	0.3	0.3	0.5	0.5	0.5	0.5	0.4	0.4	0.1	0.2	0.2	0.3
Water Year Types[b]												
Wet (31%)	0.3	0.2	0.7	0.6	0.7	0.6	0.4	0.3	**-0.2**	**-0.1**	0.0	0.2
Above Normal (25%)	0.2	0.2	0.5	0.5	0.8	0.6	0.4	0.7	**-0.4**	**-0.3**	0.1	0.4
Below Normal (6%)	0.4	0.4	0.3	0.4	0.3	0.2	0.4	0.3	0.1	0.2	0.2	0.3
Dry (13%)	0.3	0.3	0.4	0.5	0.4	0.4	0.4	0.4	0.3	0.2	0.3	0.3
Critical (25%)	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.5	0.4	0.3

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-66-2-5. Old River at Tracy Blvd, Monthly Averaged Daily Minimum Elevation

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.0	2.9	1.6	2.4	3.7	3.6	2.7	2.3	2.8	2.5	2.0	2.5
20%	1.8	1.6	0.0	0.6	2.0	2.2	1.5	1.3	2.6	1.9	1.8	1.9
30%	1.7	1.6	-0.1	0.3	1.1	0.9	0.6	1.0	2.2	1.7	1.7	1.8
40%	1.7	1.6	-0.2	0.1	0.5	0.6	0.2	0.4	1.8	1.4	1.7	1.7
50%	1.6	1.5	-0.2	0.0	-0.1	0.2	0.1	0.3	1.4	1.3	1.6	1.6
60%	1.6	1.4	-0.3	-0.1	-0.1	0.0	-0.1	0.2	1.3	1.3	1.6	1.6
70%	1.6	1.4	-0.3	-0.1	-0.1	-0.1	-0.1	0.1	1.3	1.3	1.5	1.6
80%	1.4	1.4	-0.4	-0.2	-0.1	-0.3	-0.2	0.0	1.2	1.1	1.4	1.5
90%	1.4	1.4	-0.6	-0.3	-0.2	-0.3	-0.3	0.0	1.2	1.1	1.4	1.5
Long Term												
Full Simulation Period[a]	1.7	1.8	0.3	0.6	1.1	1.2	0.7	0.8	1.9	1.6	1.7	1.8
Water Year Types[b]												
Wet (31%)	2.1	2.7	2.0	1.9	3.3	4.0	2.4	2.1	2.8	2.2	2.2	2.5
Above Normal (25%)	1.6	1.4	-0.2	1.4	2.5	1.8	1.1	1.5	2.7	2.1	1.8	1.8
Below Normal (6%)	1.6	1.6	-0.5	0.3	0.5	0.7	0.5	0.9	1.8	1.3	1.6	1.5
Dry (13%)	1.7	1.6	-0.4	-0.2	-0.2	-0.1	-0.1	0.2	1.3	1.2	1.5	1.6
Critical (25%)	1.5	1.5	-0.2	-0.2	-0.1	-0.2	-0.2	0.0	1.2	1.2	1.5	1.6

Alternative 2D (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.9	3.0	2.0	2.6	4.0	4.0	2.9	2.5	2.6	2.5	2.1	2.7
20%	1.8	1.9	0.0	0.6	2.5	2.6	1.4	1.1	2.3	1.9	2.0	2.3
30%	1.7	1.8	-0.1	0.4	1.3	0.9	0.2	0.6	2.0	1.7	1.8	2.1
40%	1.6	1.8	-0.2	0.0	0.4	0.6	0.0	0.2	1.6	1.5	1.7	1.8
50%	1.6	1.7	-0.2	0.0	-0.1	0.1	-0.1	0.1	1.4	1.4	1.7	1.8
60%	1.6	1.6	-0.2	-0.1	-0.1	-0.1	-0.1	0.1	1.4	1.3	1.5	1.7
70%	1.6	1.6	-0.2	-0.1	-0.1	-0.2	-0.2	0.0	1.3	1.3	1.5	1.6
80%	1.5	1.5	-0.3	-0.1	-0.2	-0.3	-0.3	0.0	1.2	1.3	1.5	1.6
90%	1.4	1.4	-0.4	-0.2	-0.3	-0.3	-0.4	-0.1	1.2	1.2	1.4	1.5
Long Term												
Full Simulation Period[a]	1.7	1.9	0.4	0.6	1.2	1.3	0.6	0.7	1.8	1.7	1.8	2.0
Water Year Types[b]												
Wet (31%)	1.9	2.9	2.2	2.1	3.6	4.3	2.5	2.1	2.8	2.3	2.3	2.7
Above Normal (25%)	1.5	1.5	-0.2	1.5	2.8	2.0	1.0	1.2	2.4	2.1	1.9	2.1
Below Normal (6%)	1.6	1.8	-0.4	0.2	0.4	0.6	0.2	0.6	1.6	1.5	1.7	1.7
Dry (13%)	1.6	1.7	-0.2	-0.2	-0.2	-0.1	-0.2	0.0	1.3	1.3	1.5	1.7
Critical (25%)	1.5	1.6	-0.2	-0.2	-0.2	-0.2	-0.3	0.0	1.2	1.3	1.5	1.6

Alternative 2D (ELT) minus No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.1	0.1	0.4	0.3	0.3	0.3	0.2	0.1	-0.2	0.0	0.1	0.2
20%	-0.1	0.2	0.0	0.0	0.5	0.5	-0.1	-0.2	-0.3	0.0	0.1	0.4
30%	0.0	0.2	0.1	0.1	0.2	0.1	-0.4	-0.4	-0.2	0.0	0.1	0.3
40%	-0.1	0.2	0.0	0.0	-0.1	0.0	-0.2	-0.2	-0.2	0.2	0.0	0.1
50%	0.0	0.1	0.1	0.0	0.0	-0.1	-0.2	-0.1	0.0	0.1	0.1	0.1
60%	0.0	0.2	0.1	0.1	0.0	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.1
70%	0.0	0.1	0.1	0.0	0.0	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.1
80%	0.0	0.1	0.1	0.1	-0.1	0.0	-0.1	-0.1	0.0	0.1	0.1	0.1
90%	0.0	0.0	0.1	0.1	0.0	0.0	-0.1	-0.1	0.0	0.1	0.0	0.0
Long Term												
Full Simulation Period[a]	-0.1	0.1	0.1	0.1	0.1	0.1	-0.1	-0.1	-0.1	0.1	0.1	0.2
Water Year Types[b]												
Wet (31%)	-0.2	0.2	0.3	0.2	0.3	0.3	0.1	0.0	-0.1	0.1	0.1	0.3
Above Normal (25%)	0.0	0.1	0.0	0.1	0.3	0.2	-0.2	-0.2	-0.3	0.0	0.1	0.3
Below Normal (6%)	0.0	0.2	0.1	-0.1	-0.1	-0.1	-0.3	-0.3	-0.2	0.2	0.1	0.2
Dry (13%)	-0.1	0.1	0.2	0.0	0.0	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.1
Critical (25%)	0.0	0.1	0.0	0.0	0.0	0.0	-0.1	-0.1	0.0	0.1	0.0	0.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-66-2-6. Old River at Tracy Blvd, Monthly Averaged Daily Minimum Elevation

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.0	2.9	1.6	2.4	3.7	3.6	2.7	2.3	2.8	2.5	2.0	2.5
20%	1.8	1.6	0.0	0.6	2.0	2.2	1.5	1.3	2.6	1.9	1.8	1.9
30%	1.7	1.6	-0.1	0.3	1.1	0.9	0.6	1.0	2.2	1.7	1.7	1.8
40%	1.7	1.6	-0.2	0.1	0.5	0.6	0.2	0.4	1.8	1.4	1.7	1.7
50%	1.6	1.5	-0.2	0.0	-0.1	0.2	0.1	0.3	1.4	1.3	1.6	1.6
60%	1.6	1.4	-0.3	-0.1	-0.1	0.0	-0.1	0.2	1.3	1.3	1.6	1.6
70%	1.6	1.4	-0.3	-0.1	-0.1	-0.1	-0.1	0.1	1.3	1.3	1.5	1.6
80%	1.4	1.4	-0.4	-0.2	-0.1	-0.3	-0.2	0.0	1.2	1.1	1.4	1.5
90%	1.4	1.4	-0.6	-0.3	-0.2	-0.3	-0.3	0.0	1.2	1.1	1.4	1.5
Long Term												
Full Simulation Period[a]	1.7	1.8	0.3	0.6	1.1	1.2	0.7	0.8	1.9	1.6	1.7	1.8
Water Year Types[b]												
Wet (31%)	2.1	2.7	2.0	1.9	3.3	4.0	2.4	2.1	2.8	2.2	2.2	2.5
Above Normal (25%)	1.6	1.4	-0.2	1.4	2.5	1.8	1.1	1.5	2.7	2.1	1.8	1.8
Below Normal (6%)	1.6	1.6	-0.5	0.3	0.5	0.7	0.5	0.9	1.8	1.3	1.6	1.5
Dry (13%)	1.7	1.6	-0.4	-0.2	-0.2	-0.1	-0.1	0.2	1.3	1.2	1.5	1.6
Critical (25%)	1.5	1.5	-0.2	-0.2	-0.1	-0.2	-0.2	0.0	1.2	1.2	1.5	1.6

Alternative 4A (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.9	2.9	1.8	2.4	4.0	4.0	2.9	2.5	2.6	2.6	2.1	2.6
20%	1.8	1.9	0.0	0.5	2.5	2.6	1.4	1.1	2.3	2.0	2.0	2.2
30%	1.7	1.8	-0.1	0.2	1.1	0.9	0.2	0.6	2.0	1.8	1.8	2.1
40%	1.6	1.8	-0.2	0.0	0.4	0.5	0.0	0.2	1.6	1.6	1.7	1.8
50%	1.6	1.7	-0.2	0.0	-0.1	0.0	-0.1	0.1	1.4	1.5	1.7	1.8
60%	1.6	1.6	-0.2	-0.1	-0.1	-0.1	-0.2	0.1	1.4	1.5	1.6	1.7
70%	1.6	1.6	-0.2	-0.1	-0.1	-0.2	-0.2	0.0	1.3	1.4	1.5	1.6
80%	1.5	1.5	-0.3	-0.1	-0.2	-0.3	-0.2	0.0	1.2	1.3	1.5	1.6
90%	1.4	1.4	-0.4	-0.2	-0.3	-0.4	-0.4	-0.1	1.2	1.2	1.4	1.5
Long Term												
Full Simulation Period[a]	1.7	1.9	0.4	0.6	1.1	1.2	0.6	0.7	1.8	1.7	1.8	2.0
Water Year Types[b]												
Wet (31%)	1.9	2.8	2.1	2.0	3.5	4.3	2.5	2.1	2.8	2.4	2.3	2.7
Above Normal (25%)	1.5	1.5	-0.2	1.2	2.8	2.0	1.0	1.2	2.4	2.2	1.9	2.1
Below Normal (6%)	1.6	1.8	-0.5	0.2	0.4	0.6	0.1	0.6	1.6	1.5	1.7	1.7
Dry (13%)	1.6	1.7	-0.2	-0.2	-0.2	-0.1	-0.2	0.1	1.4	1.4	1.5	1.7
Critical (25%)	1.5	1.6	-0.2	-0.2	-0.2	-0.2	-0.3	0.0	1.2	1.3	1.5	1.6

Alternative 4A (ELT) minus No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.1	0.1	0.1	0.1	0.3	0.3	0.2	0.1	-0.2	0.1	0.1	0.2
20%	-0.1	0.2	0.0	-0.2	0.5	0.4	0.0	-0.2	-0.3	0.1	0.1	0.3
30%	-0.1	0.2	0.1	-0.1	0.0	0.0	-0.4	-0.4	-0.2	0.1	0.1	0.2
40%	-0.1	0.2	0.0	0.0	-0.2	-0.1	-0.2	-0.2	-0.2	0.2	0.0	0.1
50%	0.0	0.1	0.0	0.0	0.0	-0.1	-0.2	-0.1	0.0	0.2	0.1	0.1
60%	0.0	0.2	0.1	0.0	-0.1	-0.1	-0.1	-0.1	0.0	0.2	0.0	0.1
70%	0.0	0.2	0.1	0.0	-0.1	-0.1	-0.1	-0.1	0.0	0.1	0.0	0.1
80%	0.0	0.1	0.1	0.1	0.0	0.0	0.0	-0.1	0.0	0.2	0.1	0.1
90%	0.0	0.0	0.1	0.1	0.0	0.0	-0.1	-0.1	0.0	0.2	0.1	0.0
Long Term												
Full Simulation Period[a]	-0.1	0.1	0.1	0.0	0.0	0.0	-0.1	-0.1	-0.1	0.1	0.1	0.1
Water Year Types[b]												
Wet (31%)	-0.2	0.1	0.2	0.1	0.2	0.3	0.0	0.0	-0.1	0.1	0.1	0.2
Above Normal (25%)	0.0	0.1	0.0	-0.2	0.2	0.2	-0.1	-0.2	-0.3	0.1	0.1	0.2
Below Normal (6%)	0.0	0.2	0.1	-0.1	-0.2	-0.1	-0.3	-0.3	-0.2	0.2	0.1	0.2
Dry (13%)	-0.1	0.1	0.2	0.0	0.0	-0.1	-0.1	-0.1	0.0	0.2	0.1	0.1
Critical (25%)	0.0	0.1	0.0	0.0	0.0	0.0	-0.1	-0.1	0.0	0.1	0.0	0.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-66-2-7. Old River at Tracy Blvd, Monthly Averaged Daily Minimum Elevation

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.0	2.9	1.6	2.4	3.7	3.6	2.7	2.3	2.8	2.5	2.0	2.5
20%	1.8	1.6	0.0	0.6	2.0	2.2	1.5	1.3	2.6	1.9	1.8	1.9
30%	1.7	1.6	-0.1	0.3	1.1	0.9	0.6	1.0	2.2	1.7	1.7	1.8
40%	1.7	1.6	-0.2	0.1	0.5	0.6	0.2	0.4	1.8	1.4	1.7	1.7
50%	1.6	1.5	-0.2	0.0	-0.1	0.2	0.1	0.3	1.4	1.3	1.6	1.6
60%	1.6	1.4	-0.3	-0.1	-0.1	0.0	-0.1	0.2	1.3	1.3	1.6	1.6
70%	1.6	1.4	-0.3	-0.1	-0.1	-0.1	-0.1	0.1	1.3	1.3	1.5	1.6
80%	1.4	1.4	-0.4	-0.2	-0.1	-0.3	-0.2	0.0	1.2	1.1	1.4	1.5
90%	1.4	1.4	-0.6	-0.3	-0.2	-0.3	-0.3	0.0	1.2	1.1	1.4	1.5
Long Term												
Full Simulation Period[a]	1.7	1.8	0.3	0.6	1.1	1.2	0.7	0.8	1.9	1.6	1.7	1.8
Water Year Types[b]												
Wet (31%)	2.1	2.7	2.0	1.9	3.3	4.0	2.4	2.1	2.8	2.2	2.2	2.5
Above Normal (25%)	1.6	1.4	-0.2	1.4	2.5	1.8	1.1	1.5	2.7	2.1	1.8	1.8
Below Normal (6%)	1.6	1.6	-0.5	0.3	0.5	0.7	0.5	0.9	1.8	1.3	1.6	1.5
Dry (13%)	1.7	1.6	-0.4	-0.2	-0.2	-0.1	-0.1	0.2	1.3	1.2	1.5	1.6
Critical (25%)	1.5	1.5	-0.2	-0.2	-0.1	-0.2	-0.2	0.0	1.2	1.2	1.5	1.6

Alternative 5A (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.0	2.9	1.8	2.5	3.8	3.8	2.7	2.3	2.8	2.5	2.1	2.6
20%	2.0	1.8	0.0	0.7	2.1	2.2	1.5	1.3	2.6	1.9	2.0	2.2
30%	1.8	1.8	-0.2	0.3	1.1	0.9	0.6	1.0	2.2	1.7	1.8	2.0
40%	1.7	1.6	-0.2	0.1	0.5	0.7	0.2	0.4	1.8	1.3	1.7	1.7
50%	1.6	1.5	-0.2	-0.1	0.0	0.2	0.1	0.3	1.4	1.3	1.7	1.7
60%	1.6	1.5	-0.2	-0.1	-0.1	0.0	-0.1	0.2	1.4	1.3	1.6	1.7
70%	1.6	1.4	-0.3	-0.2	-0.1	-0.1	-0.1	0.1	1.3	1.3	1.5	1.6
80%	1.5	1.4	-0.4	-0.2	-0.1	-0.2	-0.2	0.0	1.2	1.3	1.5	1.6
90%	1.4	1.4	-0.5	-0.3	-0.2	-0.3	-0.3	0.0	1.2	1.2	1.4	1.5
Long Term												
Full Simulation Period[a]	1.8	1.9	0.3	0.6	1.1	1.3	0.7	0.8	1.9	1.6	1.7	1.9
Water Year Types[b]												
Wet (31%)	2.1	2.7	2.0	2.0	3.3	4.2	2.5	2.1	2.8	2.3	2.2	2.6
Above Normal (25%)	1.5	1.4	-0.2	1.4	2.6	1.9	1.2	1.5	2.7	2.1	1.9	2.0
Below Normal (6%)	1.7	1.8	-0.5	0.3	0.5	0.8	0.5	0.9	1.8	1.3	1.7	1.7
Dry (13%)	1.8	1.6	-0.4	-0.2	-0.2	0.0	-0.1	0.2	1.4	1.2	1.5	1.7
Critical (25%)	1.6	1.5	-0.2	-0.2	-0.1	-0.2	-0.2	0.0	1.2	1.3	1.5	1.6

Alternative 5A (ELT) minus No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.1	0.1	0.1	0.1	0.2	0.2	0.0	**0.0**	**0.0**	0.0	0.1	0.1
20%	0.1	0.2	0.0	0.0	0.1	0.1	**0.0**	0.0	**0.0**	0.0	0.1	0.3
30%	0.1	0.1	**0.0**	0.0	0.1	0.1	0.0	0.0	**0.0**	0.0	0.0	0.1
40%	**0.0**	0.0	0.0	**0.0**	0.0	0.1	0.0	0.0	**0.0**	**0.0**	0.0	0.0
50%	0.0	**0.0**	0.0	**0.0**	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
60%	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
70%	0.0	0.0	0.0	**0.0**	0.0	0.0	0.0	0.0	0.0	0.0	**0.0**	0.1
80%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**0.0**	0.2	0.1	0.0
90%	0.0	0.0	0.0	0.0	0.0	0.0	**0.0**	0.0	0.0	0.1	0.0	0.0
Long Term												
Full Simulation Period[a]	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
Water Year Types[b]												
Wet (31%)	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1
Above Normal (25%)	**0.0**	0.0	0.1	0.0	0.1	0.1	0.0	**0.0**	**0.0**	0.0	0.1	0.1
Below Normal (6%)	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	**0.0**	0.0	0.1	0.1
Dry (13%)	0.1	0.1	0.0	0.1	0.0	0.0	**0.0**	0.0	0.0	0.0	0.0	0.1
Critical (25%)	0.0	0.0	0.0	**0.0**	0.0	0.0	0.0	0.0	0.0	0.1	0.0	**0.0**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

C.67. Mokelumne River at Terminous Water Surface Elevation

Table C-67-1-1. Mokelumne River at Terminous, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.3	3.7	3.9	4.0	4.3	3.9	3.6	3.5	3.6	3.7	3.7	3.7
20%	3.1	3.3	3.5	3.8	3.9	3.6	3.2	3.2	3.5	3.6	3.5	3.4
30%	3.1	3.2	3.4	3.5	3.5	3.3	3.0	3.2	3.4	3.6	3.5	3.4
40%	3.1	3.2	3.3	3.4	3.3	3.2	2.9	3.1	3.4	3.6	3.5	3.3
50%	3.1	3.1	3.3	3.3	3.2	3.1	2.9	3.1	3.3	3.6	3.5	3.3
60%	3.0	3.0	3.2	3.2	3.1	3.1	2.9	3.0	3.3	3.5	3.4	3.3
70%	3.0	3.0	3.1	3.2	3.0	2.9	2.8	3.0	3.2	3.5	3.3	3.2
80%	3.0	3.0	3.1	3.1	3.0	2.8	2.8	3.0	3.2	3.5	3.3	3.1
90%	2.9	2.9	2.9	3.0	2.9	2.7	2.7	2.9	3.1	3.4	3.2	3.1
Long Term												
Full Simulation Period[a]	3.1	3.2	3.4	3.4	3.4	3.2	3.0	3.2	3.4	3.6	3.5	3.3
Water Year Types[b]												
Wet (31%)	3.2	3.6	3.9	3.9	4.0	3.9	3.4	3.5	3.7	3.8	3.7	3.7
Above Normal (25%)	2.9	2.9	3.2	4.0	4.1	3.5	3.1	3.2	3.2	3.4	3.4	3.1
Below Normal (6%)	3.0	3.0	3.0	3.5	3.3	3.2	2.9	3.0	3.1	3.2	3.2	3.1
Dry (13%)	3.0	3.0	3.2	3.1	3.0	3.0	2.9	3.1	3.4	3.6	3.5	3.3
Critical (25%)	3.1	3.1	3.2	3.1	3.0	2.7	2.8	3.0	3.2	3.5	3.4	3.3

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.8	4.2	4.4	4.5	4.8	4.4	4.1	4.0	4.1	4.3	4.2	4.2
20%	3.7	3.8	4.0	4.3	4.5	4.1	3.7	3.7	4.0	4.2	4.1	3.9
30%	3.6	3.8	3.9	4.0	4.0	3.8	3.5	3.7	3.9	4.1	4.0	3.9
40%	3.6	3.7	3.8	3.9	3.8	3.7	3.4	3.7	3.9	4.1	4.0	3.9
50%	3.6	3.6	3.8	3.8	3.7	3.6	3.4	3.6	3.8	4.1	4.0	3.8
60%	3.5	3.6	3.7	3.8	3.6	3.6	3.4	3.6	3.8	4.0	3.9	3.8
70%	3.5	3.5	3.7	3.7	3.5	3.4	3.3	3.5	3.7	4.0	3.8	3.8
80%	3.5	3.5	3.6	3.7	3.5	3.3	3.3	3.5	3.7	4.0	3.8	3.6
90%	3.4	3.4	3.5	3.5	3.4	3.2	3.2	3.4	3.7	3.8	3.8	3.6
Long Term												
Full Simulation Period[a]	3.6	3.7	3.9	4.0	3.9	3.7	3.5	3.7	3.9	4.1	4.0	3.9
Water Year Types[b]												
Wet (31%)	3.7	4.1	4.4	4.4	4.6	4.4	3.9	4.0	4.1	4.3	4.2	4.2
Above Normal (25%)	3.4	3.5	3.7	4.5	4.6	4.0	3.6	3.7	3.7	3.9	3.9	3.7
Below Normal (6%)	3.5	3.6	3.5	4.0	3.8	3.7	3.4	3.5	3.6	3.7	3.7	3.6
Dry (13%)	3.6	3.6	3.7	3.7	3.5	3.5	3.4	3.6	3.9	4.1	4.0	3.8
Critical (25%)	3.6	3.6	3.7	3.6	3.5	3.2	3.3	3.5	3.8	4.0	3.9	3.8

No Action Alternative (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5
20%	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6
30%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
40%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
50%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
60%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80%	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
90%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Long Term												
Full Simulation Period[a]	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Water Year Types[b]												
Wet (31%)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Above Normal (25%)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6
Below Normal (6%)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Dry (13%)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Critical (25%)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

Table C-67-1-2. Mokelumne River at Terminous, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.3	3.7	3.9	4.0	4.3	3.9	3.6	3.5	3.6	3.7	3.7	3.7
20%	3.1	3.3	3.5	3.8	3.9	3.6	3.2	3.2	3.5	3.6	3.5	3.4
30%	3.1	3.2	3.4	3.5	3.5	3.3	3.0	3.2	3.4	3.6	3.5	3.4
40%	3.1	3.2	3.3	3.4	3.3	3.2	2.9	3.1	3.4	3.6	3.5	3.3
50%	3.1	3.1	3.3	3.3	3.2	3.1	2.9	3.1	3.3	3.6	3.5	3.3
60%	3.0	3.0	3.2	3.2	3.1	3.1	2.9	3.0	3.3	3.5	3.4	3.3
70%	3.0	3.0	3.1	3.2	3.0	2.9	2.8	3.0	3.2	3.5	3.3	3.2
80%	3.0	3.0	3.1	3.1	3.0	2.8	2.8	3.0	3.2	3.5	3.3	3.1
90%	2.9	2.9	2.9	3.0	2.9	2.7	2.7	2.9	3.1	3.4	3.2	3.1
Long Term												
Full Simulation Period[a]	3.1	3.2	3.4	3.4	3.4	3.2	3.0	3.2	3.4	3.6	3.5	3.3
Water Year Types[b]												
Wet (31%)	3.2	3.6	3.9	3.9	4.0	3.9	3.4	3.5	3.7	3.8	3.7	3.7
Above Normal (25%)	2.9	2.9	3.2	4.0	4.1	3.5	3.1	3.2	3.2	3.4	3.4	3.1
Below Normal (6%)	3.0	3.0	3.0	3.5	3.3	3.2	2.9	3.0	3.1	3.2	3.2	3.1
Dry (13%)	3.0	3.0	3.2	3.1	3.0	3.0	2.9	3.1	3.4	3.6	3.5	3.3
Critical (25%)	3.1	3.1	3.2	3.1	3.0	2.7	2.8	3.0	3.2	3.5	3.4	3.3

Alternative 2D (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.8	4.1	4.4	4.5	4.8	4.4	4.1	4.0	4.0	4.2	4.1	4.2
20%	3.7	3.7	4.0	4.2	4.4	4.1	3.6	3.7	3.9	4.1	4.0	3.9
30%	3.6	3.7	3.8	4.0	4.0	3.7	3.5	3.7	3.9	4.1	4.0	3.8
40%	3.6	3.6	3.8	3.8	3.7	3.6	3.4	3.6	3.8	4.0	4.0	3.8
50%	3.5	3.6	3.7	3.8	3.7	3.6	3.3	3.6	3.8	4.0	3.9	3.8
60%	3.5	3.6	3.7	3.7	3.6	3.5	3.3	3.5	3.8	3.9	3.9	3.8
70%	3.5	3.5	3.6	3.7	3.5	3.4	3.3	3.5	3.7	3.9	3.8	3.7
80%	3.5	3.5	3.6	3.6	3.4	3.3	3.2	3.5	3.7	3.9	3.7	3.6
90%	3.4	3.3	3.4	3.5	3.4	3.2	3.1	3.3	3.6	3.8	3.7	3.6
Long Term												
Full Simulation Period[a]	3.6	3.7	3.8	3.9	3.9	3.7	3.5	3.6	3.8	4.0	3.9	3.8
Water Year Types[b]												
Wet (31%)	3.7	4.1	4.4	4.3	4.5	4.4	3.9	3.9	4.1	4.2	4.1	4.2
Above Normal (25%)	3.4	3.4	3.7	4.4	4.6	4.0	3.6	3.7	3.7	3.9	3.8	3.7
Below Normal (6%)	3.5	3.6	3.4	3.9	3.7	3.6	3.3	3.5	3.6	3.7	3.7	3.6
Dry (13%)	3.5	3.5	3.7	3.6	3.5	3.5	3.3	3.6	3.8	4.0	3.9	3.7
Critical (25%)	3.5	3.6	3.7	3.6	3.5	3.2	3.2	3.4	3.7	4.0	3.8	3.7

Alternative 2D (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.4	0.5
20%	0.5	0.5	0.5	0.4	0.5	0.5	0.4	0.5	0.5	0.5	0.4	0.5
30%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
40%	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.5	0.5	0.4	0.5	0.5
50%	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5
60%	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.4	0.5	0.5
70%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5
80%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5
90%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5
Long Term												
Full Simulation Period[a]	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5
Water Year Types[b]												
Wet (31%)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.5
Above Normal (25%)	0.5	0.5	0.5	0.4	0.5	0.5	0.4	0.5	0.5	0.4	0.5	0.5
Below Normal (6%)	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5
Dry (13%)	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.4	0.5	0.5
Critical (25%)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-67-1-3. Mokelumne River at Terminous, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.3	3.7	3.9	4.0	4.3	3.9	3.6	3.5	3.6	3.7	3.7	3.7
20%	3.1	3.3	3.5	3.8	3.9	3.6	3.2	3.2	3.5	3.6	3.5	3.4
30%	3.1	3.2	3.4	3.5	3.5	3.3	3.0	3.2	3.4	3.6	3.5	3.4
40%	3.1	3.2	3.3	3.4	3.3	3.2	2.9	3.1	3.4	3.6	3.5	3.3
50%	3.1	3.1	3.3	3.3	3.2	3.1	2.9	3.1	3.3	3.6	3.5	3.3
60%	3.0	3.0	3.2	3.2	3.1	3.1	2.9	3.0	3.3	3.5	3.4	3.3
70%	3.0	3.0	3.1	3.2	3.0	2.9	2.8	3.0	3.2	3.5	3.3	3.2
80%	3.0	3.0	3.1	3.1	3.0	2.8	2.8	3.0	3.2	3.5	3.3	3.1
90%	2.9	2.9	2.9	3.0	2.9	2.7	2.7	2.9	3.1	3.4	3.2	3.1
Long Term												
Full Simulation Period[a]	3.1	3.2	3.4	3.4	3.4	3.2	3.0	3.2	3.4	3.6	3.5	3.3
Water Year Types[b]												
Wet (31%)	3.2	3.6	3.9	3.9	4.0	3.9	3.4	3.5	3.7	3.8	3.7	3.7
Above Normal (25%)	2.9	2.9	3.2	4.0	4.1	3.5	3.1	3.2	3.2	3.4	3.4	3.1
Below Normal (6%)	3.0	3.0	3.0	3.5	3.3	3.2	2.9	3.0	3.1	3.2	3.2	3.1
Dry (13%)	3.0	3.0	3.2	3.1	3.0	3.0	2.9	3.1	3.4	3.6	3.5	3.3
Critical (25%)	3.1	3.1	3.2	3.1	3.0	2.7	2.8	3.0	3.2	3.5	3.4	3.3

Alternative 4A (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.8	4.2	4.4	4.5	4.9	4.5	4.1	4.0	4.1	4.3	4.2	4.2
20%	3.7	3.8	4.0	4.3	4.5	4.2	3.7	3.7	4.0	4.2	4.1	4.0
30%	3.6	3.8	3.9	4.0	4.1	3.8	3.5	3.7	3.9	4.1	4.1	3.9
40%	3.6	3.7	3.8	3.9	3.8	3.7	3.5	3.7	3.9	4.1	4.0	3.9
50%	3.6	3.6	3.8	3.8	3.7	3.6	3.4	3.6	3.8	4.1	4.0	3.8
60%	3.5	3.6	3.7	3.8	3.6	3.6	3.4	3.6	3.8	4.0	3.9	3.8
70%	3.5	3.6	3.7	3.7	3.5	3.4	3.3	3.5	3.7	4.0	3.9	3.8
80%	3.5	3.5	3.6	3.6	3.5	3.3	3.3	3.5	3.7	4.0	3.8	3.6
90%	3.4	3.4	3.5	3.6	3.4	3.2	3.2	3.4	3.7	3.9	3.8	3.6
Long Term												
Full Simulation Period[a]	3.6	3.7	3.9	4.0	3.9	3.7	3.5	3.7	3.9	4.1	4.0	3.9
Water Year Types[b]												
Wet (31%)	3.8	4.1	4.4	4.4	4.6	4.5	3.9	4.0	4.2	4.3	4.2	4.3
Above Normal (25%)	3.5	3.5	3.7	4.5	4.7	4.0	3.6	3.7	3.7	3.9	3.9	3.7
Below Normal (6%)	3.5	3.6	3.5	4.0	3.8	3.7	3.4	3.5	3.7	3.7	3.7	3.6
Dry (13%)	3.6	3.6	3.7	3.7	3.5	3.5	3.4	3.6	3.9	4.1	4.0	3.8
Critical (25%)	3.6	3.6	3.7	3.7	3.5	3.2	3.3	3.5	3.8	4.0	3.9	3.8

Alternative 4A (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.5	0.5	0.5	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.6
20%	0.6	0.5	0.5	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.6
30%	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5
40%	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
50%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
60%	0.5	0.6	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
90%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Long Term												
Full Simulation Period[a]	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Water Year Types[b]												
Wet (31%)	0.5	0.5	0.6	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.6
Above Normal (25%)	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.6
Below Normal (6%)	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Dry (13%)	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Critical (25%)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-67-1-4. Mokelumne River at Terminous, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.3	3.7	3.9	4.0	4.3	3.9	3.6	3.5	3.6	3.7	3.7	3.7
20%	3.1	3.3	3.5	3.8	3.9	3.6	3.2	3.2	3.5	3.6	3.5	3.4
30%	3.1	3.2	3.4	3.5	3.5	3.3	3.0	3.2	3.4	3.6	3.5	3.4
40%	3.1	3.2	3.3	3.4	3.3	3.2	2.9	3.1	3.4	3.6	3.5	3.3
50%	3.1	3.1	3.3	3.3	3.2	3.1	2.9	3.1	3.3	3.6	3.5	3.3
60%	3.0	3.0	3.2	3.2	3.1	3.1	2.9	3.0	3.3	3.5	3.4	3.3
70%	3.0	3.0	3.1	3.2	3.0	2.9	2.8	3.0	3.2	3.5	3.3	3.2
80%	3.0	3.0	3.1	3.1	3.0	2.8	2.8	3.0	3.2	3.5	3.3	3.1
90%	2.9	2.9	2.9	3.0	2.9	2.7	2.7	2.9	3.1	3.4	3.2	3.1
Long Term												
Full Simulation Period[a]	3.1	3.2	3.4	3.4	3.4	3.2	3.0	3.2	3.4	3.6	3.5	3.3
Water Year Types[b]												
Wet (31%)	3.2	3.6	3.9	3.9	4.0	3.9	3.4	3.5	3.7	3.8	3.7	3.7
Above Normal (25%)	2.9	2.9	3.2	4.0	4.1	3.5	3.1	3.2	3.2	3.4	3.4	3.1
Below Normal (6%)	3.0	3.0	3.0	3.5	3.3	3.2	2.9	3.0	3.1	3.2	3.2	3.1
Dry (13%)	3.0	3.0	3.2	3.1	3.0	3.0	2.9	3.1	3.4	3.6	3.5	3.3
Critical (25%)	3.1	3.1	3.2	3.1	3.0	2.7	2.8	3.0	3.2	3.5	3.4	3.3

Alternative 5A (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.7	4.1	4.4	4.4	4.8	4.4	4.0	3.9	4.0	4.2	4.1	4.2
20%	3.6	3.7	4.0	4.3	4.4	4.1	3.6	3.7	3.9	4.1	4.0	3.9
30%	3.6	3.7	3.8	4.0	4.0	3.7	3.5	3.7	3.9	4.1	4.0	3.8
40%	3.5	3.6	3.8	3.8	3.7	3.6	3.4	3.6	3.8	4.0	4.0	3.8
50%	3.5	3.6	3.7	3.8	3.6	3.6	3.3	3.5	3.8	4.0	3.9	3.8
60%	3.5	3.6	3.6	3.7	3.6	3.5	3.3	3.5	3.8	4.0	3.9	3.8
70%	3.4	3.5	3.6	3.6	3.5	3.4	3.3	3.5	3.7	3.9	3.8	3.7
80%	3.4	3.5	3.5	3.6	3.4	3.3	3.2	3.5	3.7	3.9	3.7	3.6
90%	3.4	3.3	3.4	3.5	3.4	3.1	3.1	3.3	3.6	3.8	3.7	3.6
Long Term												
Full Simulation Period[a]	3.5	3.7	3.8	3.9	3.9	3.7	3.5	3.6	3.8	4.0	3.9	3.8
Water Year Types[b]												
Wet (31%)	3.7	4.1	4.3	4.3	4.5	4.4	3.9	3.9	4.1	4.2	4.1	4.2
Above Normal (25%)	3.4	3.4	3.7	4.4	4.6	4.0	3.6	3.6	3.6	3.9	3.8	3.7
Below Normal (6%)	3.5	3.6	3.4	3.9	3.7	3.6	3.3	3.5	3.6	3.7	3.7	3.6
Dry (13%)	3.5	3.5	3.7	3.6	3.5	3.5	3.3	3.6	3.8	4.0	3.9	3.7
Critical (25%)	3.5	3.6	3.7	3.6	3.5	3.2	3.2	3.4	3.7	4.0	3.8	3.7

Alternative 5A (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.5	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.5	0.4	0.5
20%	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5
30%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5
40%	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.5
50%	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.4	0.5
60%	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.4	0.5	0.5	0.5
70%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5
80%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.4	0.5
90%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5
Long Term												
Full Simulation Period[a]	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.4	0.5
Water Year Types[b]												
Wet (31%)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.5
Above Normal (25%)	0.5	0.5	0.5	0.4	0.5	0.5	0.4	0.5	0.4	0.5	0.5	0.5
Below Normal (6%)	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.4	0.5	0.5	0.5	0.5
Dry (13%)	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5
Critical (25%)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-67-1-5. Mokelumne River at Terminous, Monthly Averaged Daily Maximum Elevation

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.8	4.2	4.4	4.5	4.8	4.4	4.1	4.0	4.1	4.3	4.2	4.2
20%	3.7	3.8	4.0	4.3	4.5	4.1	3.7	3.7	4.0	4.2	4.1	3.9
30%	3.6	3.8	3.9	4.0	4.0	3.8	3.5	3.7	3.9	4.1	4.0	3.9
40%	3.6	3.7	3.8	3.9	3.8	3.7	3.4	3.7	3.9	4.1	4.0	3.9
50%	3.6	3.6	3.8	3.8	3.7	3.6	3.4	3.6	3.8	4.1	4.0	3.8
60%	3.5	3.6	3.7	3.8	3.6	3.6	3.4	3.6	3.8	4.0	3.9	3.8
70%	3.5	3.5	3.7	3.7	3.5	3.4	3.3	3.5	3.7	4.0	3.8	3.8
80%	3.5	3.5	3.6	3.7	3.5	3.3	3.3	3.5	3.7	4.0	3.8	3.6
90%	3.4	3.4	3.5	3.5	3.4	3.2	3.2	3.4	3.7	3.8	3.8	3.6
Long Term												
Full Simulation Period[a]	3.6	3.7	3.9	4.0	3.9	3.7	3.5	3.7	3.9	4.1	4.0	3.9
Water Year Types[b]												
Wet (31%)	3.7	4.1	4.4	4.4	4.6	4.4	3.9	4.0	4.1	4.3	4.2	4.2
Above Normal (25%)	3.4	3.5	3.7	4.5	4.6	4.0	3.6	3.7	3.7	3.9	3.9	3.7
Below Normal (6%)	3.5	3.6	3.5	4.0	3.8	3.7	3.4	3.5	3.6	3.7	3.7	3.6
Dry (13%)	3.6	3.6	3.7	3.7	3.5	3.5	3.4	3.6	3.9	4.1	4.0	3.8
Critical (25%)	3.6	3.6	3.7	3.6	3.5	3.2	3.3	3.5	3.8	4.0	3.9	3.8

Alternative 2D (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.8	4.1	4.4	4.5	4.8	4.4	4.1	4.0	4.0	4.2	4.1	4.2
20%	3.7	3.7	4.0	4.2	4.4	4.1	3.6	3.7	3.9	4.1	4.0	3.9
30%	3.6	3.7	3.8	4.0	4.0	3.7	3.5	3.7	3.9	4.1	4.0	3.8
40%	3.6	3.6	3.8	3.8	3.7	3.6	3.4	3.6	3.8	4.0	4.0	3.8
50%	3.5	3.6	3.7	3.8	3.7	3.6	3.3	3.6	3.8	4.0	3.9	3.8
60%	3.5	3.6	3.7	3.7	3.6	3.5	3.3	3.5	3.8	3.9	3.9	3.8
70%	3.5	3.5	3.6	3.7	3.5	3.4	3.3	3.5	3.7	3.9	3.8	3.7
80%	3.5	3.5	3.6	3.6	3.4	3.3	3.2	3.5	3.7	3.9	3.7	3.6
90%	3.4	3.3	3.4	3.5	3.4	3.2	3.1	3.3	3.6	3.8	3.7	3.6
Long Term												
Full Simulation Period[a]	3.6	3.7	3.8	3.9	3.9	3.7	3.5	3.6	3.8	4.0	3.9	3.8
Water Year Types[b]												
Wet (31%)	3.7	4.1	4.4	4.3	4.5	4.4	3.9	3.9	4.1	4.2	4.1	4.2
Above Normal (25%)	3.4	3.4	3.7	4.4	4.6	4.0	3.6	3.7	3.7	3.9	3.8	3.7
Below Normal (6%)	3.5	3.6	3.4	3.9	3.7	3.6	3.3	3.5	3.6	3.7	3.7	3.6
Dry (13%)	3.5	3.5	3.7	3.6	3.5	3.5	3.3	3.6	3.8	4.0	3.9	3.7
Critical (25%)	3.5	3.6	3.7	3.6	3.5	3.2	3.2	3.4	3.7	4.0	3.8	3.7

Alternative 2D (ELT) minus No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.0	0.0	-0.1	-0.1	0.0	0.0	0.0	-0.1	0.0	-0.1	-0.1	0.0
20%	0.0	0.0	-0.1	-0.1	0.0	0.0	-0.1	0.0	0.0	-0.1	-0.1	0.0
30%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	-0.1
40%	0.0	0.0	0.0	-0.1	0.0	-0.1	-0.1	0.0	-0.1	-0.1	-0.1	-0.1
50%	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0
60%	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	0.0	0.0	-0.1	0.0	-0.1
70%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	0.0
80%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	-0.1
90%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Long Term												
Full Simulation Period[a]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	0.0
Water Year Types[b]												
Wet (31%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	0.0
Above Normal (25%)	0.0	0.0	0.0	-0.1	0.0	0.0	-0.1	0.0	0.0	-0.1	0.0	0.0
Below Normal (6%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1
Dry (13%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	-0.1
Critical (25%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	-0.1	-0.1

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-67-1-6. Mokelumne River at Terminous, Monthly Averaged Daily Maximum Elevation

No Action Alternative (ELT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.8	4.2	4.4	4.5	4.8	4.4	4.1	4.0	4.1	4.3	4.2	4.2
20%	3.7	3.8	4.0	4.3	4.5	4.1	3.7	3.7	4.0	4.2	4.1	3.9
30%	3.6	3.8	3.9	4.0	4.0	3.8	3.5	3.7	3.9	4.1	4.0	3.9
40%	3.6	3.7	3.8	3.9	3.8	3.7	3.4	3.7	3.9	4.1	4.0	3.9
50%	3.6	3.6	3.8	3.8	3.7	3.6	3.4	3.6	3.8	4.1	4.0	3.8
60%	3.5	3.6	3.7	3.8	3.6	3.6	3.4	3.6	3.8	4.0	3.9	3.8
70%	3.5	3.5	3.7	3.7	3.5	3.4	3.3	3.5	3.7	4.0	3.8	3.8
80%	3.5	3.5	3.6	3.7	3.5	3.3	3.3	3.5	3.7	4.0	3.8	3.6
90%	3.4	3.4	3.5	3.5	3.4	3.2	3.2	3.4	3.7	3.8	3.8	3.6
Long Term												
Full Simulation Period[a]	3.6	3.7	3.9	4.0	3.9	3.7	3.5	3.7	3.9	4.1	4.0	3.9
Water Year Types[b]												
Wet (31%)	3.7	4.1	4.4	4.4	4.6	4.4	3.9	4.0	4.1	4.3	4.2	4.2
Above Normal (25%)	3.4	3.5	3.7	4.5	4.6	4.0	3.6	3.7	3.7	3.9	3.9	3.7
Below Normal (6%)	3.5	3.6	3.5	4.0	3.8	3.7	3.4	3.5	3.6	3.7	3.7	3.6
Dry (13%)	3.6	3.6	3.7	3.7	3.5	3.5	3.4	3.6	3.9	4.1	4.0	3.8
Critical (25%)	3.6	3.6	3.7	3.6	3.5	3.2	3.3	3.5	3.8	4.0	3.9	3.8

Alternative 4A (ELT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.8	4.2	4.4	4.5	4.9	4.5	4.1	4.0	4.1	4.3	4.2	4.2
20%	3.7	3.8	4.0	4.3	4.5	4.2	3.7	3.7	4.0	4.2	4.1	4.0
30%	3.6	3.8	3.9	4.0	4.1	3.8	3.5	3.7	3.9	4.1	4.1	3.9
40%	3.6	3.7	3.8	3.9	3.8	3.7	3.5	3.7	3.9	4.1	4.0	3.9
50%	3.6	3.6	3.8	3.8	3.7	3.6	3.4	3.6	3.8	4.1	4.0	3.8
60%	3.5	3.6	3.7	3.8	3.6	3.6	3.4	3.6	3.8	4.0	3.9	3.8
70%	3.5	3.6	3.7	3.7	3.5	3.4	3.3	3.5	3.7	4.0	3.9	3.8
80%	3.5	3.5	3.6	3.6	3.5	3.3	3.3	3.5	3.7	4.0	3.8	3.6
90%	3.4	3.4	3.5	3.6	3.4	3.2	3.2	3.4	3.7	3.9	3.8	3.6
Long Term												
Full Simulation Period[a]	3.6	3.7	3.9	4.0	3.9	3.7	3.5	3.7	3.9	4.1	4.0	3.9
Water Year Types[b]												
Wet (31%)	3.8	4.1	4.4	4.4	4.6	4.5	3.9	4.0	4.2	4.3	4.2	4.3
Above Normal (25%)	3.5	3.5	3.7	4.5	4.7	4.0	3.6	3.7	3.7	3.9	3.9	3.7
Below Normal (6%)	3.5	3.6	3.5	4.0	3.8	3.7	3.4	3.5	3.7	3.7	3.7	3.6
Dry (13%)	3.6	3.6	3.7	3.7	3.5	3.5	3.4	3.6	3.9	4.1	4.0	3.8
Critical (25%)	3.6	3.6	3.7	3.7	3.5	3.2	3.3	3.5	3.8	4.0	3.9	3.8

Alternative 4A (ELT) minus No Action Alternative (ELT)

	Monthly Averaged Daily Maximum Elevation (FEET)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
20%	0.0	0.0	0.0	**0.0**	0.0	0.0	0.0	0.0	0.0	0.0	**0.0**	0.0
30%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40%	0.0	**0.0**	0.0	0.0	0.0	**0.0**	0.0	0.0	**0.0**	0.0	0.0	0.0
50%	0.0	0.0	0.0	**0.0**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60%	0.0	0.0	0.0	0.0	0.0	**0.0**	0.0	0.0	0.0	0.0	0.0	0.0
70%	0.0	0.0	**0.0**	0.0	0.0	**0.0**	0.0	0.0	0.0	**0.0**	0.0	0.0
80%	0.0	0.0	0.0	**0.0**	0.0	0.0	**0.0**	0.0	0.0	**0.0**	0.0	0.0
90%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**0.0**	0.0
Long Term												
Full Simulation Period[a]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Water Year Types[b]												
Wet (31%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Above Normal (25%)	0.0	0.0	0.0	**0.0**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Below Normal (6%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dry (13%)	0.0	0.0	0.0	0.0	0.0	**0.0**	0.0	0.0	0.0	0.0	0.0	**0.0**
Critical (25%)	0.0	0.0	0.0	0.0	0.0	**0.0**	0.0	0.0	**0.0**	**0.0**	0.0	0.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-67-1-7. Mokelumne River at Terminous, Monthly Averaged Daily Maximum Elevation

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.8	4.2	4.4	4.5	4.8	4.4	4.1	4.0	4.1	4.3	4.2	4.2
20%	3.7	3.8	4.0	4.3	4.5	4.1	3.7	3.7	4.0	4.2	4.1	3.9
30%	3.6	3.8	3.9	4.0	4.0	3.8	3.5	3.7	3.9	4.1	4.0	3.9
40%	3.6	3.7	3.8	3.9	3.8	3.7	3.4	3.7	3.9	4.1	4.0	3.9
50%	3.6	3.6	3.8	3.8	3.7	3.6	3.4	3.6	3.8	4.1	4.0	3.8
60%	3.5	3.6	3.7	3.8	3.6	3.6	3.4	3.6	3.8	4.0	3.9	3.8
70%	3.5	3.5	3.7	3.7	3.5	3.4	3.3	3.5	3.7	4.0	3.8	3.8
80%	3.5	3.5	3.6	3.7	3.5	3.3	3.3	3.5	3.7	4.0	3.8	3.6
90%	3.4	3.4	3.5	3.5	3.4	3.2	3.2	3.4	3.7	3.8	3.8	3.6
Long Term												
Full Simulation Period[a]	3.6	3.7	3.9	4.0	3.9	3.7	3.5	3.7	3.9	4.1	4.0	3.9
Water Year Types[b]												
Wet (31%)	3.7	4.1	4.4	4.4	4.6	4.4	3.9	4.0	4.1	4.3	4.2	4.2
Above Normal (25%)	3.4	3.5	3.7	4.5	4.6	4.0	3.6	3.7	3.7	3.9	3.9	3.7
Below Normal (6%)	3.5	3.6	3.5	4.0	3.8	3.7	3.4	3.5	3.6	3.7	3.7	3.6
Dry (13%)	3.6	3.6	3.7	3.7	3.5	3.5	3.4	3.6	3.9	4.1	4.0	3.8
Critical (25%)	3.6	3.6	3.7	3.6	3.5	3.2	3.3	3.5	3.8	4.0	3.9	3.8

Alternative 5A (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.7	4.1	4.4	4.4	4.8	4.4	4.0	3.9	4.0	4.2	4.1	4.2
20%	3.6	3.7	4.0	4.3	4.4	4.1	3.6	3.7	3.9	4.1	4.0	3.9
30%	3.6	3.7	3.8	4.0	4.0	3.7	3.5	3.7	3.9	4.1	4.0	3.8
40%	3.5	3.6	3.8	3.8	3.7	3.6	3.4	3.6	3.8	4.0	4.0	3.8
50%	3.5	3.6	3.7	3.8	3.6	3.6	3.3	3.5	3.8	4.0	3.9	3.8
60%	3.5	3.6	3.6	3.7	3.6	3.5	3.3	3.5	3.8	4.0	3.9	3.8
70%	3.4	3.5	3.6	3.6	3.5	3.4	3.3	3.5	3.7	3.9	3.8	3.7
80%	3.4	3.5	3.5	3.6	3.4	3.3	3.2	3.5	3.7	3.9	3.7	3.6
90%	3.4	3.3	3.4	3.5	3.4	3.1	3.1	3.3	3.6	3.8	3.7	3.6
Long Term												
Full Simulation Period[a]	3.5	3.7	3.8	3.9	3.9	3.7	3.5	3.6	3.8	4.0	3.9	3.8
Water Year Types[b]												
Wet (31%)	3.7	4.1	4.3	4.3	4.5	4.4	3.9	3.9	4.1	4.2	4.1	4.2
Above Normal (25%)	3.4	3.4	3.7	4.4	4.6	4.0	3.6	3.6	3.6	3.9	3.8	3.7
Below Normal (6%)	3.5	3.6	3.4	3.9	3.7	3.6	3.3	3.5	3.6	3.7	3.7	3.6
Dry (13%)	3.5	3.5	3.7	3.6	3.5	3.5	3.3	3.6	3.8	4.0	3.9	3.7
Critical (25%)	3.5	3.6	3.7	3.6	3.5	3.2	3.2	3.4	3.7	4.0	3.8	3.7

Alternative 5A (ELT) minus No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.0	-0.1	-0.1	-0.1	-0.1	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	0.0
20%	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	0.0
30%	0.0	-0.1	0.0	-0.1	0.0	0.0	0.0	0.0	-0.1	-0.1	-0.1	-0.1
40%	0.0	0.0	0.0	-0.1	-0.1	0.0	0.0	-0.1	-0.1	-0.1	-0.1	-0.1
50%	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	-0.1	-0.1	-0.1	-0.1
60%	0.0	0.0	-0.1	0.0	0.0	-0.1	0.0	0.0	-0.1	-0.1	0.0	-0.1
70%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0
80%	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	-0.1
90%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Long Term												
Full Simulation Period[a]	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	-0.1	-0.1	-0.1	0.0
Water Year Types[b]												
Wet (31%)	0.0	0.0	-0.1	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.0
Above Normal (25%)	0.0	0.0	0.0	-0.1	-0.1	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	0.0
Below Normal (6%)	-0.1	0.0	0.0	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1
Dry (13%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	-0.1	-0.1
Critical (25%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	-0.1

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-67-2-1. Mokelumne River at Terminous, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.5	-0.4	-0.1	0.1	0.8	0.4	0.0	-0.5	-0.7	-0.5	-0.5	-0.3
20%	-0.7	-0.7	-0.7	-0.2	0.1	0.0	-0.7	-0.8	-0.8	-0.7	-0.5	-0.5
30%	-0.8	-0.8	-0.9	-0.4	-0.3	-0.3	-0.8	-0.8	-0.9	-0.7	-0.5	-0.5
40%	-0.8	-0.9	-0.9	-0.7	-0.6	-0.6	-0.8	-0.9	-0.9	-0.8	-0.6	-0.6
50%	-0.8	-0.9	-0.9	-0.8	-0.8	-0.6	-0.9	-0.9	-0.9	-0.8	-0.6	-0.6
60%	-0.8	-1.0	-0.9	-0.9	-0.8	-0.7	-0.9	-1.0	-0.9	-0.8	-0.6	-0.6
70%	-0.8	-1.0	-1.0	-0.9	-0.8	-0.9	-1.0	-1.0	-0.9	-0.8	-0.7	-0.7
80%	-0.9	-1.1	-1.1	-1.0	-1.0	-1.0	-1.0	-1.1	-0.9	-0.9	-0.7	-0.7
90%	-0.9	-1.1	-1.2	-1.1	-1.0	-1.0	-1.2	-1.1	-1.0	-0.9	-0.8	-0.7
Long Term												
Full Simulation Period[a]	-0.8	-0.8	-0.8	-0.6	-0.4	-0.4	-0.7	-0.8	-0.8	-0.7	-0.6	-0.5
Water Year Types[b]												
Wet (31%)	-0.6	-0.4	-0.2	-0.2	0.4	0.5	-0.2	-0.5	-0.5	-0.5	-0.5	-0.3
Above Normal (25%)	-0.8	-1.0	-0.9	0.1	0.3	0.0	-0.5	-0.7	-0.9	-0.7	-0.6	-0.7
Below Normal (6%)	-0.7	-0.9	-1.1	-0.6	-0.5	-0.5	-0.8	-0.9	-0.9	-0.9	-0.7	-0.7
Dry (13%)	-0.9	-1.0	-1.0	-1.0	-0.9	-0.8	-1.0	-1.0	-0.9	-0.8	-0.7	-0.7
Critical (25%)	-0.8	-0.9	-1.0	-1.0	-0.9	-1.0	-1.0	-1.1	-1.0	-0.8	-0.6	-0.6

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.1	0.0	0.3	0.5	1.3	0.8	0.4	0.0	-0.3	-0.1	0.0	0.1
20%	-0.2	-0.3	-0.3	0.3	0.5	0.5	-0.2	-0.4	-0.4	-0.3	-0.1	0.0
30%	-0.3	-0.4	-0.4	0.0	0.2	0.1	-0.4	-0.4	-0.4	-0.3	-0.1	-0.1
40%	-0.3	-0.4	-0.4	-0.2	-0.2	-0.1	-0.4	-0.4	-0.5	-0.3	-0.1	-0.1
50%	-0.3	-0.5	-0.4	-0.4	-0.3	-0.2	-0.5	-0.5	-0.5	-0.3	-0.2	-0.1
60%	-0.3	-0.5	-0.5	-0.4	-0.4	-0.3	-0.5	-0.5	-0.5	-0.3	-0.2	-0.2
70%	-0.4	-0.6	-0.6	-0.5	-0.4	-0.4	-0.5	-0.6	-0.5	-0.4	-0.3	-0.2
80%	-0.4	-0.6	-0.7	-0.6	-0.5	-0.6	-0.6	-0.7	-0.5	-0.4	-0.3	-0.2
90%	-0.4	-0.6	-0.7	-0.6	-0.6	-0.6	-0.7	-0.7	-0.5	-0.4	-0.3	-0.3
Long Term												
Full Simulation Period[a]	-0.3	-0.4	-0.3	-0.2	0.1	0.0	-0.3	-0.4	-0.4	-0.3	-0.2	-0.1
Water Year Types[b]												
Wet (31%)	-0.2	0.0	0.3	0.3	0.9	0.9	0.2	-0.1	-0.1	-0.1	-0.1	0.2
Above Normal (25%)	-0.3	-0.5	-0.4	0.5	0.8	0.4	-0.1	-0.3	-0.5	-0.3	-0.2	-0.1
Below Normal (6%)	-0.2	-0.4	-0.7	-0.2	-0.1	-0.1	-0.4	-0.4	-0.5	-0.4	-0.3	-0.3
Dry (13%)	-0.4	-0.5	-0.6	-0.5	-0.5	-0.4	-0.5	-0.5	-0.5	-0.4	-0.2	-0.2
Critical (25%)	-0.4	-0.5	-0.5	-0.5	-0.5	-0.5	-0.6	-0.7	-0.5	-0.3	-0.2	-0.1

No Action Alternative (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.5	0.5	0.5
20%	0.5	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.5
30%	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5
40%	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5
50%	0.4	0.5	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.5
60%	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
70%	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5
80%	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5
90%	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4
Long Term												
Full Simulation Period[a]	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5
Water Year Types[b]												
Wet (31%)	0.4	0.4	0.5	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.5
Above Normal (25%)	0.5	0.4	0.5	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.5
Below Normal (6%)	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.5	0.4
Dry (13%)	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4
Critical (25%)	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

Table C-67-2-2. Mokelumne River at Terminous, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.5	-0.4	-0.1	0.1	0.8	0.4	0.0	-0.5	-0.7	-0.5	-0.5	-0.3
20%	-0.7	-0.7	-0.7	-0.2	0.1	0.0	-0.7	-0.8	-0.8	-0.7	-0.5	-0.5
30%	-0.8	-0.8	-0.9	-0.4	-0.3	-0.3	-0.8	-0.8	-0.9	-0.7	-0.5	-0.5
40%	-0.8	-0.9	-0.9	-0.7	-0.6	-0.6	-0.8	-0.9	-0.9	-0.8	-0.6	-0.6
50%	-0.8	-0.9	-0.9	-0.8	-0.8	-0.6	-0.9	-0.9	-0.9	-0.8	-0.6	-0.6
60%	-0.8	-1.0	-0.9	-0.9	-0.8	-0.7	-0.9	-1.0	-0.9	-0.8	-0.6	-0.6
70%	-0.8	-1.0	-1.0	-0.9	-0.8	-0.9	-1.0	-1.0	-0.9	-0.8	-0.7	-0.7
80%	-0.9	-1.1	-1.1	-1.0	-1.0	-1.0	-1.0	-1.1	-0.9	-0.9	-0.7	-0.7
90%	-0.9	-1.1	-1.2	-1.1	-1.0	-1.0	-1.2	-1.1	-1.0	-0.9	-0.8	-0.7
Long Term												
Full Simulation Period[a]	-0.8	-0.8	-0.8	-0.6	-0.4	-0.4	-0.7	-0.8	-0.8	-0.7	-0.6	-0.5
Water Year Types[b]												
Wet (31%)	-0.6	-0.4	-0.2	-0.2	0.4	0.5	-0.2	-0.5	-0.5	-0.5	-0.5	-0.3
Above Normal (25%)	-0.8	-1.0	-0.9	0.1	0.3	0.0	-0.5	-0.7	-0.9	-0.7	-0.6	-0.7
Below Normal (6%)	-0.7	-0.9	-1.1	-0.6	-0.5	-0.5	-0.8	-0.9	-0.9	-0.9	-0.7	-0.7
Dry (13%)	-0.9	-1.0	-1.0	-1.0	-0.9	-0.8	-1.0	-1.0	-0.9	-0.8	-0.7	-0.7
Critical (25%)	-0.8	-0.9	-1.0	-1.0	-0.9	-1.0	-1.0	-1.1	-1.0	-0.8	-0.6	-0.6

Alternative 2D (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.0	0.1	0.4	0.6	1.5	0.8	0.5	0.0	-0.2	0.0	0.0	0.3
20%	-0.2	-0.3	-0.2	0.4	0.7	0.6	-0.2	-0.3	-0.4	-0.2	0.0	0.0
30%	-0.2	-0.3	-0.3	0.0	0.3	0.2	-0.3	-0.4	-0.4	-0.2	-0.1	0.0
40%	-0.3	-0.3	-0.4	-0.2	0.0	-0.1	-0.4	-0.4	-0.4	-0.3	-0.1	0.0
50%	-0.3	-0.4	-0.4	-0.3	-0.3	-0.1	-0.4	-0.5	-0.4	-0.3	-0.1	-0.1
60%	-0.3	-0.4	-0.4	-0.3	-0.3	-0.3	-0.5	-0.5	-0.4	-0.3	-0.2	-0.1
70%	-0.3	-0.5	-0.5	-0.5	-0.4	-0.4	-0.5	-0.5	-0.5	-0.3	-0.2	-0.1
80%	-0.3	-0.5	-0.6	-0.5	-0.5	-0.5	-0.5	-0.6	-0.5	-0.4	-0.2	-0.2
90%	-0.4	-0.6	-0.7	-0.5	-0.5	-0.6	-0.7	-0.7	-0.5	-0.4	-0.3	-0.2
Long Term												
Full Simulation Period[a]	-0.2	-0.3	-0.3	-0.1	0.1	0.1	-0.3	-0.4	-0.4	-0.2	-0.1	0.0
Water Year Types[b]												
Wet (31%)	-0.1	0.1	0.4	0.4	1.0	1.0	0.2	-0.1	-0.1	0.0	0.0	0.3
Above Normal (25%)	-0.3	-0.5	-0.4	0.6	0.9	0.5	-0.1	-0.2	-0.4	-0.3	-0.1	-0.1
Below Normal (6%)	-0.2	-0.3	-0.6	-0.1	0.0	0.0	-0.3	-0.4	-0.4	-0.3	-0.2	-0.2
Dry (13%)	-0.3	-0.5	-0.5	-0.5	-0.4	-0.3	-0.5	-0.5	-0.4	-0.4	-0.2	-0.2
Critical (25%)	-0.3	-0.4	-0.5	-0.5	-0.4	-0.5	-0.6	-0.6	-0.5	-0.3	-0.1	-0.1

Alternative 2D (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.4	0.5	0.5	0.6
20%	0.6	0.5	0.5	0.6	0.6	0.6	0.5	0.5	0.4	0.5	0.5	0.5
30%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
40%	0.5	0.6	0.5	0.5	0.6	0.5	0.5	0.4	0.5	0.5	0.5	0.5
50%	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
60%	0.5	0.6	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.4	0.4	0.5
70%	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
90%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Long Term												
Full Simulation Period[a]	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Water Year Types[b]												
Wet (31%)	0.5	0.5	0.6	0.5	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.6
Above Normal (25%)	0.5	0.5	0.5	0.5	0.6	0.5	0.4	0.5	0.5	0.4	0.5	0.6
Below Normal (6%)	0.6	0.6	0.5	0.5	0.4	0.5	0.5	0.4	0.5	0.5	0.5	0.5
Dry (13%)	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5
Critical (25%)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-67-2-3. Mokelumne River at Terminous, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.5	-0.4	-0.1	0.1	0.8	0.4	0.0	-0.5	-0.7	-0.5	-0.5	-0.3
20%	-0.7	-0.7	-0.7	-0.2	0.1	0.0	-0.7	-0.8	-0.8	-0.7	-0.5	-0.5
30%	-0.8	-0.8	-0.9	-0.4	-0.3	-0.3	-0.8	-0.8	-0.9	-0.7	-0.5	-0.5
40%	-0.8	-0.9	-0.9	-0.7	-0.6	-0.6	-0.8	-0.9	-0.9	-0.8	-0.6	-0.6
50%	-0.8	-0.9	-0.9	-0.8	-0.8	-0.6	-0.9	-0.9	-0.9	-0.8	-0.6	-0.6
60%	-0.8	-1.0	-0.9	-0.9	-0.8	-0.7	-0.9	-1.0	-0.9	-0.8	-0.6	-0.6
70%	-0.8	-1.0	-1.0	-0.9	-0.8	-0.9	-1.0	-1.0	-0.9	-0.8	-0.7	-0.7
80%	-0.9	-1.1	-1.1	-1.0	-1.0	-1.0	-1.0	-1.1	-0.9	-0.9	-0.7	-0.7
90%	-0.9	-1.1	-1.2	-1.1	-1.0	-1.0	-1.2	-1.1	-1.0	-0.9	-0.8	-0.7
Long Term												
Full Simulation Period[a]	-0.8	-0.8	-0.8	-0.6	-0.4	-0.4	-0.7	-0.8	-0.8	-0.7	-0.6	-0.5
Water Year Types[b]												
Wet (31%)	-0.6	-0.4	-0.2	-0.2	0.4	0.5	-0.2	-0.5	-0.5	-0.5	-0.5	-0.3
Above Normal (25%)	-0.8	-1.0	-0.9	0.1	0.3	0.0	-0.5	-0.7	-0.9	-0.7	-0.6	-0.7
Below Normal (6%)	-0.7	-0.9	-1.1	-0.6	-0.5	-0.5	-0.8	-0.9	-0.9	-0.9	-0.7	-0.7
Dry (13%)	-0.9	-1.0	-1.0	-1.0	-0.9	-0.8	-1.0	-1.0	-0.9	-0.8	-0.7	-0.7
Critical (25%)	-0.8	-0.9	-1.0	-1.0	-0.9	-1.0	-1.0	-1.1	-1.0	-0.8	-0.6	-0.6

Alternative 4A (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.1	0.1	0.3	0.5	1.4	0.9	0.5	0.0	-0.2	0.0	0.0	0.3
20%	-0.2	-0.3	-0.3	0.3	0.6	0.6	-0.2	-0.3	-0.4	-0.2	0.0	0.0
30%	-0.2	-0.3	-0.4	0.0	0.2	0.2	-0.3	-0.4	-0.4	-0.2	-0.1	-0.1
40%	-0.3	-0.4	-0.4	-0.2	-0.1	-0.1	-0.4	-0.4	-0.5	-0.3	-0.1	-0.1
50%	-0.3	-0.4	-0.4	-0.4	-0.3	-0.2	-0.5	-0.5	-0.5	-0.3	-0.2	-0.1
60%	-0.3	-0.5	-0.5	-0.4	-0.4	-0.3	-0.5	-0.5	-0.5	-0.3	-0.2	-0.1
70%	-0.3	-0.5	-0.5	-0.5	-0.4	-0.4	-0.5	-0.6	-0.5	-0.3	-0.2	-0.2
80%	-0.4	-0.6	-0.7	-0.6	-0.5	-0.6	-0.6	-0.7	-0.5	-0.4	-0.2	-0.2
90%	-0.4	-0.6	-0.7	-0.6	-0.5	-0.6	-0.8	-0.7	-0.5	-0.4	-0.3	-0.3
Long Term												
Full Simulation Period[a]	-0.3	-0.4	-0.3	-0.2	0.1	0.0	-0.3	-0.4	-0.4	-0.2	-0.1	-0.1
Water Year Types[b]												
Wet (31%)	-0.1	0.0	0.3	0.3	1.0	1.0	0.2	-0.1	-0.1	0.0	0.0	0.3
Above Normal (25%)	-0.3	-0.5	-0.4	0.5	0.9	0.5	-0.1	-0.3	-0.4	-0.3	-0.1	-0.1
Below Normal (6%)	-0.2	-0.4	-0.7	-0.1	-0.1	0.0	-0.4	-0.4	-0.5	-0.4	-0.2	-0.2
Dry (13%)	-0.3	-0.5	-0.5	-0.5	-0.5	-0.4	-0.5	-0.5	-0.5	-0.3	-0.2	-0.2
Critical (25%)	-0.3	-0.5	-0.5	-0.5	-0.4	-0.5	-0.6	-0.7	-0.5	-0.3	-0.2	-0.1

Alternative 4A (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.5	0.5	0.5	0.4	0.6	0.5	0.5	0.5	0.4	0.5	0.5	0.6
20%	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5
30%	0.5	0.5	0.5	0.4	0.5	0.5	0.4	0.4	0.5	0.5	0.4	0.5
40%	0.5	0.5	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.5	0.4	0.5
50%	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5
60%	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.5	0.4	0.5	0.4	0.5
70%	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5
80%	0.5	0.5	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5
90%	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.5	0.5
Long Term												
Full Simulation Period[a]	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.5	0.5	0.5
Water Year Types[b]												
Wet (31%)	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.5
Above Normal (25%)	0.5	0.5	0.5	0.4	0.5	0.5	0.4	0.5	0.4	0.5	0.5	0.6
Below Normal (6%)	0.5	0.5	0.4	0.5	0.4	0.5	0.4	0.4	0.4	0.5	0.5	0.5
Dry (13%)	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5
Critical (25%)	0.5	0.5	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-67-2-4. Mokelumne River at Terminous, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.5	-0.4	-0.1	0.1	0.8	0.4	0.0	-0.5	-0.7	-0.5	-0.5	-0.3
20%	-0.7	-0.7	-0.7	-0.2	0.1	0.0	-0.7	-0.8	-0.8	-0.7	-0.5	-0.5
30%	-0.8	-0.8	-0.9	-0.4	-0.3	-0.3	-0.8	-0.8	-0.9	-0.7	-0.5	-0.5
40%	-0.8	-0.9	-0.9	-0.7	-0.6	-0.6	-0.8	-0.9	-0.9	-0.8	-0.6	-0.6
50%	-0.8	-0.9	-0.9	-0.8	-0.8	-0.6	-0.9	-0.9	-0.9	-0.8	-0.6	-0.6
60%	-0.8	-1.0	-0.9	-0.9	-0.8	-0.7	-0.9	-1.0	-0.9	-0.8	-0.6	-0.6
70%	-0.8	-1.0	-1.0	-0.9	-0.8	-0.9	-1.0	-1.0	-0.9	-0.8	-0.7	-0.7
80%	-0.9	-1.1	-1.1	-1.0	-1.0	-1.0	-1.0	-1.1	-0.9	-0.9	-0.7	-0.7
90%	-0.9	-1.1	-1.2	-1.1	-1.0	-1.0	-1.2	-1.1	-1.0	-0.9	-0.8	-0.7
Long Term												
Full Simulation Period[a]	-0.8	-0.8	-0.8	-0.6	-0.4	-0.4	-0.7	-0.8	-0.8	-0.7	-0.6	-0.5
Water Year Types[b]												
Wet (31%)	-0.6	-0.4	-0.2	-0.2	0.4	0.5	-0.2	-0.5	-0.5	-0.5	-0.5	-0.3
Above Normal (25%)	-0.8	-1.0	-0.9	0.1	0.3	0.0	-0.5	-0.7	-0.9	-0.7	-0.6	-0.7
Below Normal (6%)	-0.7	-0.9	-1.1	-0.6	-0.5	-0.5	-0.8	-0.9	-0.9	-0.9	-0.7	-0.7
Dry (13%)	-0.9	-1.0	-1.0	-1.0	-0.9	-0.8	-1.0	-1.0	-0.9	-0.8	-0.7	-0.7
Critical (25%)	-0.8	-0.9	-1.0	-1.0	-0.9	-1.0	-1.0	-1.1	-1.0	-0.8	-0.6	-0.6

Alternative 5A (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.1	0.1	0.3	0.5	1.4	0.8	0.4	0.0	-0.2	0.0	0.0	0.3
20%	-0.2	-0.3	-0.3	0.3	0.5	0.5	-0.2	-0.3	-0.4	-0.2	0.0	0.0
30%	-0.2	-0.3	-0.4	0.0	0.2	0.2	-0.3	-0.4	-0.4	-0.2	0.0	0.0
40%	-0.3	-0.3	-0.4	-0.2	-0.1	-0.1	-0.4	-0.4	-0.4	-0.2	-0.1	0.0
50%	-0.3	-0.4	-0.4	-0.4	-0.3	-0.2	-0.4	-0.5	-0.4	-0.3	-0.1	-0.1
60%	-0.3	-0.4	-0.4	-0.4	-0.3	-0.3	-0.5	-0.5	-0.4	-0.3	-0.2	-0.1
70%	-0.3	-0.5	-0.5	-0.5	-0.4	-0.4	-0.5	-0.5	-0.5	-0.3	-0.2	-0.1
80%	-0.4	-0.5	-0.6	-0.6	-0.5	-0.5	-0.5	-0.6	-0.5	-0.4	-0.2	-0.2
90%	-0.4	-0.6	-0.7	-0.6	-0.5	-0.6	-0.7	-0.7	-0.5	-0.4	-0.3	-0.2
Long Term												
Full Simulation Period[a]	-0.3	-0.3	-0.3	-0.1	0.1	0.1	-0.3	-0.4	-0.4	-0.2	-0.1	0.0
Water Year Types[b]												
Wet (31%)	-0.1	0.0	0.3	0.3	0.9	1.0	0.2	-0.1	-0.1	0.0	0.0	0.3
Above Normal (25%)	-0.3	-0.5	-0.4	0.5	0.9	0.5	-0.1	-0.2	-0.4	-0.3	-0.1	-0.1
Below Normal (6%)	-0.2	-0.3	-0.7	-0.1	-0.1	0.0	-0.3	-0.4	-0.4	-0.4	-0.2	-0.2
Dry (13%)	-0.3	-0.5	-0.5	-0.5	-0.5	-0.3	-0.5	-0.5	-0.4	-0.3	-0.2	-0.2
Critical (25%)	-0.3	-0.4	-0.5	-0.5	-0.4	-0.5	-0.6	-0.6	-0.5	-0.3	-0.1	-0.1

Alternative 5A (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.5	0.4	0.5	0.4	0.5	0.5	0.4	0.4	0.4	0.5	0.5	0.6
20%	0.6	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5
30%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
40%	0.5	0.6	0.5	0.4	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5
50%	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5
60%	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
90%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5
Long Term												
Full Simulation Period[a]	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5
Water Year Types[b]												
Wet (31%)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.4	0.6
Above Normal (25%)	0.5	0.5	0.5	0.4	0.5	0.5	0.4	0.5	0.4	0.5	0.5	0.6
Below Normal (6%)	0.6	0.6	0.4	0.5	0.4	0.4	0.5	0.4	0.5	0.5	0.5	0.5
Dry (13%)	0.5	0.5	0.4	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5
Critical (25%)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-67-2-5. Mokelumne River at Terminous, Monthly Averaged Daily Minimum Elevation

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.1	0.0	0.3	0.5	1.3	0.8	0.4	0.0	-0.3	-0.1	0.0	0.1
20%	-0.2	-0.3	-0.3	0.3	0.5	0.5	-0.2	-0.4	-0.4	-0.3	-0.1	0.0
30%	-0.3	-0.4	-0.4	0.0	0.2	0.1	-0.4	-0.4	-0.4	-0.3	-0.1	-0.1
40%	-0.3	-0.4	-0.4	-0.2	-0.2	-0.1	-0.4	-0.4	-0.5	-0.3	-0.1	-0.1
50%	-0.3	-0.5	-0.4	-0.4	-0.3	-0.2	-0.5	-0.5	-0.5	-0.3	-0.2	-0.1
60%	-0.3	-0.5	-0.5	-0.4	-0.4	-0.3	-0.5	-0.5	-0.5	-0.3	-0.2	-0.2
70%	-0.4	-0.6	-0.6	-0.5	-0.4	-0.4	-0.5	-0.6	-0.5	-0.4	-0.3	-0.2
80%	-0.4	-0.6	-0.7	-0.6	-0.5	-0.6	-0.6	-0.7	-0.5	-0.4	-0.3	-0.2
90%	-0.4	-0.6	-0.7	-0.6	-0.6	-0.6	-0.7	-0.7	-0.5	-0.4	-0.3	-0.3
Long Term												
Full Simulation Period[a]	-0.3	-0.4	-0.3	-0.2	0.1	0.0	-0.3	-0.4	-0.4	-0.3	-0.2	-0.1
Water Year Types[b]												
Wet (31%)	-0.2	0.0	0.3	0.3	0.9	0.9	0.2	-0.1	-0.1	-0.1	-0.1	0.2
Above Normal (25%)	-0.3	-0.5	-0.4	0.5	0.8	0.4	-0.1	-0.3	-0.5	-0.3	-0.2	-0.1
Below Normal (6%)	-0.2	-0.4	-0.7	-0.2	-0.1	-0.1	-0.4	-0.4	-0.5	-0.4	-0.3	-0.3
Dry (13%)	-0.4	-0.5	-0.6	-0.5	-0.5	-0.4	-0.5	-0.5	-0.5	-0.4	-0.2	-0.2
Critical (25%)	-0.4	-0.5	-0.5	-0.5	-0.5	-0.5	-0.6	-0.7	-0.5	-0.3	-0.2	-0.1

Alternative 2D (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.0	0.1	0.4	0.6	1.5	0.8	0.5	0.0	-0.2	0.0	0.0	0.3
20%	-0.2	-0.3	-0.2	0.4	0.7	0.6	-0.2	-0.3	-0.4	-0.2	0.0	0.0
30%	-0.2	-0.3	-0.3	0.0	0.3	0.2	-0.3	-0.4	-0.4	-0.2	-0.1	0.0
40%	-0.3	-0.3	-0.4	-0.2	0.0	-0.1	-0.4	-0.4	-0.4	-0.3	-0.1	0.0
50%	-0.3	-0.4	-0.4	-0.3	-0.3	-0.1	-0.4	-0.5	-0.4	-0.3	-0.1	-0.1
60%	-0.3	-0.4	-0.4	-0.3	-0.3	-0.3	-0.5	-0.5	-0.4	-0.3	-0.2	-0.1
70%	-0.3	-0.5	-0.5	-0.5	-0.4	-0.4	-0.5	-0.5	-0.5	-0.3	-0.2	-0.1
80%	-0.3	-0.5	-0.6	-0.5	-0.5	-0.5	-0.5	-0.6	-0.5	-0.4	-0.2	-0.2
90%	-0.4	-0.6	-0.7	-0.5	-0.5	-0.6	-0.7	-0.7	-0.5	-0.4	-0.3	-0.2
Long Term												
Full Simulation Period[a]	-0.2	-0.3	-0.3	-0.1	0.1	0.1	-0.3	-0.4	-0.4	-0.2	-0.1	0.0
Water Year Types[b]												
Wet (31%)	-0.1	0.1	0.4	0.4	1.0	1.0	0.2	-0.1	-0.1	0.0	0.0	0.3
Above Normal (25%)	-0.3	-0.5	-0.4	0.6	0.9	0.5	-0.1	-0.2	-0.4	-0.3	-0.1	-0.1
Below Normal (6%)	-0.2	-0.3	-0.6	-0.1	0.0	0.0	-0.3	-0.4	-0.4	-0.3	-0.2	-0.2
Dry (13%)	-0.3	-0.5	-0.5	-0.5	-0.4	-0.3	-0.5	-0.5	-0.4	-0.4	-0.2	-0.2
Critical (25%)	-0.3	-0.4	-0.5	-0.5	-0.4	-0.5	-0.6	-0.6	-0.5	-0.3	-0.1	-0.1

Alternative 2D (ELT) minus No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.1
20%	0.1	0.1	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0
30%	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.1
40%	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
50%	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.0
60%	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
70%	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
80%	0.1	0.1	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
90%	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
Long Term												
Full Simulation Period[a]	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1
Water Year Types[b]												
Wet (31%)	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1
Above Normal (25%)	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.1
Below Normal (6%)	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.1
Dry (13%)	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Critical (25%)	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-67-2-6. Mokelumne River at Terminous, Monthly Averaged Daily Minimum Elevation

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.1	0.0	0.3	0.5	1.3	0.8	0.4	0.0	-0.3	-0.1	0.0	0.1
20%	-0.2	-0.3	-0.3	0.3	0.5	0.5	-0.2	-0.4	-0.4	-0.3	-0.1	0.0
30%	-0.3	-0.4	-0.4	0.0	0.2	0.1	-0.4	-0.4	-0.4	-0.3	-0.1	-0.1
40%	-0.3	-0.4	-0.4	-0.2	-0.2	-0.1	-0.4	-0.4	-0.5	-0.3	-0.1	-0.1
50%	-0.3	-0.5	-0.4	-0.4	-0.3	-0.2	-0.5	-0.5	-0.5	-0.3	-0.2	-0.1
60%	-0.3	-0.5	-0.5	-0.4	-0.4	-0.3	-0.5	-0.5	-0.5	-0.3	-0.2	-0.2
70%	-0.4	-0.6	-0.6	-0.5	-0.4	-0.4	-0.5	-0.6	-0.5	-0.4	-0.3	-0.2
80%	-0.4	-0.6	-0.7	-0.6	-0.5	-0.6	-0.6	-0.7	-0.5	-0.4	-0.3	-0.2
90%	-0.4	-0.6	-0.7	-0.6	-0.6	-0.6	-0.7	-0.7	-0.5	-0.4	-0.3	-0.3
Long Term												
Full Simulation Period[a]	-0.3	-0.4	-0.3	-0.2	0.1	0.0	-0.3	-0.4	-0.4	-0.3	-0.2	-0.1
Water Year Types[b]												
Wet (31%)	-0.2	0.0	0.3	0.3	0.9	0.9	0.2	-0.1	-0.1	-0.1	-0.1	0.2
Above Normal (25%)	-0.3	-0.5	-0.4	0.5	0.8	0.4	-0.1	-0.3	-0.5	-0.3	-0.2	-0.1
Below Normal (6%)	-0.2	-0.4	-0.7	-0.2	-0.1	-0.1	-0.4	-0.4	-0.5	-0.4	-0.3	-0.3
Dry (13%)	-0.4	-0.5	-0.6	-0.5	-0.5	-0.4	-0.5	-0.5	-0.5	-0.4	-0.2	-0.2
Critical (25%)	-0.4	-0.5	-0.5	-0.5	-0.5	-0.5	-0.6	-0.7	-0.5	-0.3	-0.2	-0.1

Alternative 4A (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.1	0.1	0.3	0.5	1.4	0.9	0.5	0.0	-0.2	0.0	0.0	0.3
20%	-0.2	-0.3	-0.3	0.3	0.6	0.6	-0.2	-0.3	-0.4	-0.2	0.0	0.0
30%	-0.2	-0.3	-0.4	0.0	0.2	0.2	-0.3	-0.4	-0.4	-0.2	-0.1	-0.1
40%	-0.3	-0.4	-0.4	-0.2	-0.1	-0.1	-0.4	-0.4	-0.5	-0.3	-0.1	-0.1
50%	-0.3	-0.4	-0.4	-0.4	-0.3	-0.2	-0.5	-0.5	-0.5	-0.3	-0.2	-0.1
60%	-0.3	-0.5	-0.5	-0.4	-0.4	-0.3	-0.5	-0.5	-0.5	-0.3	-0.2	-0.1
70%	-0.3	-0.5	-0.5	-0.5	-0.4	-0.4	-0.5	-0.6	-0.5	-0.3	-0.2	-0.2
80%	-0.4	-0.6	-0.7	-0.6	-0.5	-0.6	-0.6	-0.7	-0.5	-0.4	-0.2	-0.2
90%	-0.4	-0.6	-0.7	-0.6	-0.5	-0.6	-0.8	-0.7	-0.5	-0.4	-0.3	-0.3
Long Term												
Full Simulation Period[a]	-0.3	-0.4	-0.3	-0.2	0.1	0.0	-0.3	-0.4	-0.4	-0.2	-0.1	-0.1
Water Year Types[b]												
Wet (31%)	-0.1	0.0	0.3	0.3	1.0	1.0	0.2	-0.1	-0.1	0.0	0.0	0.3
Above Normal (25%)	-0.3	-0.5	-0.4	0.5	0.9	0.5	-0.1	-0.3	-0.4	-0.3	-0.1	-0.1
Below Normal (6%)	-0.2	-0.4	-0.7	-0.1	-0.1	0.0	-0.4	-0.4	-0.5	-0.4	-0.2	-0.2
Dry (13%)	-0.3	-0.5	-0.5	-0.5	-0.5	-0.4	-0.5	-0.5	-0.5	-0.3	-0.2	-0.2
Critical (25%)	-0.3	-0.5	-0.5	-0.5	-0.4	-0.5	-0.6	-0.7	-0.5	-0.3	-0.2	-0.1

Alternative 4A (ELT) minus No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.1	0.1	0.0	**0.0**	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1
20%	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
30%	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40%	0.0	0.0	0.0	0.0	0.1	**0.0**	0.0	0.0	**0.0**	0.0	**0.0**	**0.0**
50%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**0.0**	0.0	0.0	0.0
60%	0.0	0.1	0.0	0.0	0.0	**0.0**	0.0	0.0	0.0	0.1	0.0	0.0
70%	0.0	0.0	0.0	0.0	0.0	**0.0**	0.0	0.0	0.0	0.0	0.0	0.0
80%	0.0	0.0	**0.0**	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90%	0.1	0.0	0.0	0.1	0.0	0.0	**0.0**	0.0	0.0	0.0	0.0	0.0
Long Term												
Full Simulation Period[a]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Water Year Types[b]												
Wet (31%)	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1
Above Normal (25%)	0.0	0.0	0.0	**0.0**	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.0
Below Normal (6%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**0.0**	0.1	0.0	0.0
Dry (13%)	0.0	0.0	0.1	0.0	0.0	**0.0**	0.0	0.0	0.0	0.1	0.0	0.0
Critical (25%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**0.0**	**0.0**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-67-2-7. Mokelumne River at Terminous, Monthly Averaged Daily Minimum Elevation

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.1	0.0	0.3	0.5	1.3	0.8	0.4	0.0	-0.3	-0.1	0.0	0.1
20%	-0.2	-0.3	-0.3	0.3	0.5	0.5	-0.2	-0.4	-0.4	-0.3	-0.1	0.0
30%	-0.3	-0.4	-0.4	0.0	0.2	0.1	-0.4	-0.4	-0.4	-0.3	-0.1	-0.1
40%	-0.3	-0.4	-0.4	-0.2	-0.2	-0.1	-0.4	-0.4	-0.5	-0.3	-0.1	-0.1
50%	-0.3	-0.5	-0.4	-0.4	-0.3	-0.2	-0.5	-0.5	-0.5	-0.3	-0.2	-0.1
60%	-0.3	-0.5	-0.5	-0.4	-0.4	-0.3	-0.5	-0.5	-0.5	-0.3	-0.2	-0.2
70%	-0.4	-0.6	-0.6	-0.5	-0.4	-0.4	-0.5	-0.6	-0.5	-0.4	-0.3	-0.2
80%	-0.4	-0.6	-0.7	-0.6	-0.5	-0.6	-0.6	-0.7	-0.5	-0.4	-0.3	-0.2
90%	-0.4	-0.6	-0.7	-0.6	-0.6	-0.6	-0.7	-0.7	-0.5	-0.4	-0.3	-0.3
Long Term												
Full Simulation Period[a]	-0.3	-0.4	-0.3	-0.2	0.1	0.0	-0.3	-0.4	-0.4	-0.3	-0.2	-0.1
Water Year Types[b]												
Wet (31%)	-0.2	0.0	0.3	0.3	0.9	0.9	0.2	-0.1	-0.1	-0.1	-0.1	0.2
Above Normal (25%)	-0.3	-0.5	-0.4	0.5	0.8	0.4	-0.1	-0.3	-0.5	-0.3	-0.2	-0.1
Below Normal (6%)	-0.2	-0.4	-0.7	-0.2	-0.1	-0.1	-0.4	-0.4	-0.5	-0.4	-0.3	-0.3
Dry (13%)	-0.4	-0.5	-0.6	-0.5	-0.5	-0.4	-0.5	-0.5	-0.5	-0.4	-0.2	-0.2
Critical (25%)	-0.4	-0.5	-0.5	-0.5	-0.5	-0.5	-0.6	-0.7	-0.5	-0.3	-0.2	-0.1

Alternative 5A (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.1	0.1	0.3	0.5	1.4	0.8	0.4	0.0	-0.2	0.0	0.0	0.3
20%	-0.2	-0.3	-0.3	0.3	0.5	0.5	-0.2	-0.3	-0.4	-0.2	0.0	0.0
30%	-0.2	-0.3	-0.4	0.0	0.2	0.2	-0.3	-0.4	-0.4	-0.2	0.0	0.0
40%	-0.3	-0.3	-0.4	-0.2	-0.1	-0.1	-0.4	-0.4	-0.4	-0.2	-0.1	0.0
50%	-0.3	-0.4	-0.4	-0.4	-0.3	-0.2	-0.4	-0.5	-0.4	-0.3	-0.1	-0.1
60%	-0.3	-0.4	-0.4	-0.4	-0.3	-0.3	-0.5	-0.5	-0.4	-0.3	-0.2	-0.1
70%	-0.3	-0.5	-0.5	-0.5	-0.4	-0.4	-0.5	-0.5	-0.5	-0.3	-0.2	-0.1
80%	-0.4	-0.5	-0.6	-0.6	-0.5	-0.5	-0.5	-0.6	-0.5	-0.4	-0.2	-0.2
90%	-0.4	-0.6	-0.7	-0.6	-0.5	-0.6	-0.7	-0.7	-0.5	-0.4	-0.3	-0.2
Long Term												
Full Simulation Period[a]	-0.3	-0.3	-0.3	-0.1	0.1	0.1	-0.3	-0.4	-0.4	-0.2	-0.1	0.0
Water Year Types[b]												
Wet (31%)	-0.1	0.0	0.3	0.3	0.9	1.0	0.2	-0.1	-0.1	0.0	0.0	0.3
Above Normal (25%)	-0.3	-0.5	-0.4	0.5	0.9	0.5	-0.1	-0.2	-0.4	-0.3	-0.1	-0.1
Below Normal (6%)	-0.2	-0.3	-0.7	-0.1	-0.1	0.0	-0.3	-0.4	-0.4	-0.4	-0.2	-0.2
Dry (13%)	-0.3	-0.5	-0.5	-0.5	-0.5	-0.3	-0.5	-0.5	-0.4	-0.3	-0.2	-0.2
Critical (25%)	-0.3	-0.4	-0.5	-0.5	-0.4	-0.5	-0.6	-0.6	-0.5	-0.3	-0.1	-0.1

Alternative 5A (ELT) minus No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.1	0.1	0.0	**0.0**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
20%	0.0	0.0	0.0	0.0	**0.0**	0.1	0.0	0.0	0.0	0.1	0.0	0.0
30%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
40%	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50%	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
60%	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
70%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
80%	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
90%	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Long Term												
Full Simulation Period[a]	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Water Year Types[b]												
Wet (31%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Above Normal (25%)	0.0	0.0	0.0	**0.0**	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.1
Below Normal (6%)	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
Dry (13%)	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Critical (25%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

C.68. Sacramento River at Freeport Water Surface Elevation

Table C-68-1-1. Sacramento River at Freeport, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	7.7	12.5	11.7	13.9	13.1	9.2	5.7	4.5	5.1	4.5	4.5
20%	3.6	6.4	5.2	10.0	13.0	10.8	4.9	3.9	3.9	4.8	4.3	3.9
30%	3.6	3.9	4.7	7.8	8.1	9.0	4.4	3.9	3.9	4.7	4.2	3.8
40%	3.5	3.8	4.4	5.5	6.9	6.9	3.8	3.8	3.9	4.7	4.1	3.8
50%	3.5	3.6	4.2	5.2	5.3	6.1	3.7	3.7	3.8	4.6	4.1	3.7
60%	3.4	3.5	4.0	4.6	3.9	5.7	3.6	3.5	3.8	4.6	4.0	3.7
70%	3.4	3.5	3.9	4.0	3.8	4.4	3.6	3.4	3.7	4.5	3.9	3.6
80%	3.3	3.3	3.8	3.7	3.7	3.6	3.4	3.4	3.6	4.4	3.9	3.6
90%	3.3	3.2	3.4	3.5	3.3	3.3	3.3	3.1	3.5	4.1	3.8	3.4
Long Term												
Full Simulation Period[a]	3.6	4.7	5.8	6.6	7.2	7.3	5.0	4.3	4.2	4.6	4.1	3.9
Water Year Types[b]												
Wet (31%)	4.1	7.4	11.1	9.6	12.4	12.2	8.4	6.3	5.8	5.1	4.4	4.7
Above Normal (25%)	3.2	3.5	4.5	11.8	11.2	9.9	5.5	4.2	3.8	4.4	4.0	3.7
Below Normal (6%)	3.6	3.5	3.4	5.3	7.0	6.0	3.7	3.8	3.7	4.5	4.0	3.6
Dry (13%)	3.5	4.1	4.2	4.2	4.4	5.9	3.9	3.6	3.9	4.7	4.3	3.7
Critical (25%)	3.5	3.6	3.9	4.2	3.6	3.8	3.3	3.2	3.6	4.4	3.8	3.5

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.5	7.2	12.3	11.4	13.7	12.3	8.9	5.6	4.7	5.6	4.9	5.9
20%	4.2	5.6	5.2	9.9	12.7	10.6	5.1	4.4	4.4	5.5	4.8	5.3
30%	4.1	4.4	5.1	7.7	8.2	8.6	4.7	4.3	4.4	5.1	4.7	4.7
40%	4.0	4.2	4.8	5.5	6.2	6.2	4.1	4.1	4.3	5.1	4.7	4.3
50%	3.9	4.2	4.6	5.3	5.3	5.8	4.1	4.1	4.2	5.1	4.6	4.2
60%	3.9	4.1	4.5	4.9	4.4	5.1	4.0	4.0	4.2	5.0	4.5	4.1
70%	3.8	4.0	4.3	4.4	4.2	4.4	4.0	3.9	4.1	4.9	4.4	4.1
80%	3.8	3.9	4.2	4.3	4.1	3.9	3.8	3.9	4.1	4.8	4.3	4.1
90%	3.7	3.8	4.0	4.0	3.8	3.8	3.7	3.7	4.0	4.6	4.1	4.0
Long Term												
Full Simulation Period[a]	4.0	5.0	6.1	6.7	7.3	7.2	5.3	4.6	4.5	5.1	4.5	4.6
Water Year Types[b]												
Wet (31%)	4.4	7.5	11.2	9.5	12.3	11.7	8.5	6.3	5.5	5.4	4.8	5.9
Above Normal (25%)	3.7	3.9	4.8	11.3	11.2	9.5	5.4	4.4	4.1	5.0	4.6	4.7
Below Normal (6%)	4.0	4.3	4.2	5.5	6.2	5.6	4.1	4.0	4.2	4.7	4.3	4.1
Dry (13%)	4.0	4.4	4.6	4.5	4.6	5.7	4.2	4.1	4.4	5.2	4.7	4.2
Critical (25%)	4.0	4.1	4.3	4.5	4.0	4.1	3.8	3.8	4.1	4.7	4.2	4.0

No Action Alternative (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.2	-0.4	-0.2	-0.3	-0.2	-0.8	-0.3	-0.1	0.2	0.5	0.4	1.3
20%	0.5	-0.8	0.0	-0.1	-0.3	-0.2	0.2	0.5	0.5	0.7	0.5	1.3
30%	0.5	0.5	0.3	-0.1	0.1	-0.4	0.3	0.4	0.5	0.5	0.5	0.9
40%	0.5	0.5	0.3	0.1	-0.8	-0.6	0.4	0.3	0.4	0.5	0.5	0.6
50%	0.4	0.6	0.5	0.1	0.0	-0.3	0.4	0.4	0.4	0.5	0.5	0.5
60%	0.4	0.5	0.4	0.3	0.5	-0.6	0.4	0.6	0.4	0.4	0.4	0.4
70%	0.4	0.6	0.4	0.5	0.3	0.0	0.4	0.5	0.4	0.4	0.5	0.5
80%	0.5	0.7	0.4	0.6	0.4	0.3	0.5	0.5	0.4	0.4	0.4	0.5
90%	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.3	0.6
Long Term												
Full Simulation Period[a]	0.4	0.3	0.3	0.1	0.1	-0.2	0.3	0.3	0.3	0.4	0.4	0.7
Water Year Types[b]												
Wet (31%)	0.2	0.1	0.1	-0.1	-0.1	-0.5	0.0	-0.1	-0.2	0.3	0.5	1.2
Above Normal (25%)	0.4	0.4	0.4	-0.4	0.0	-0.4	-0.1	0.2	0.3	0.6	0.6	1.0
Below Normal (6%)	0.3	0.8	0.8	0.2	-0.9	-0.4	0.4	0.2	0.4	0.2	0.2	0.5
Dry (13%)	0.5	0.3	0.4	0.3	0.2	-0.2	0.4	0.5	0.5	0.5	0.4	0.5
Critical (25%)	0.5	0.5	0.4	0.4	0.4	0.3	0.5	0.6	0.5	0.4	0.4	0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

Table C-68-1-2. Sacramento River at Freeport, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	7.7	12.5	11.7	13.9	13.1	9.2	5.7	4.5	5.1	4.5	4.5
20%	3.6	6.4	5.2	10.0	13.0	10.8	4.9	3.9	3.9	4.8	4.3	3.9
30%	3.6	3.9	4.7	7.8	8.1	9.0	4.4	3.9	3.9	4.7	4.2	3.8
40%	3.5	3.8	4.4	5.5	6.9	6.9	3.8	3.8	3.9	4.7	4.1	3.8
50%	3.5	3.6	4.2	5.2	5.3	6.1	3.7	3.7	3.8	4.6	4.1	3.7
60%	3.4	3.5	4.0	4.6	3.9	5.7	3.6	3.5	3.8	4.6	4.0	3.7
70%	3.4	3.5	3.9	4.0	3.8	4.4	3.6	3.4	3.7	4.5	3.9	3.6
80%	3.3	3.3	3.8	3.7	3.7	3.6	3.4	3.4	3.6	4.4	3.9	3.6
90%	3.3	3.2	3.4	3.5	3.3	3.3	3.3	3.1	3.5	4.1	3.8	3.4
Long Term												
Full Simulation Period[a]	3.6	4.7	5.8	6.6	7.2	7.3	5.0	4.3	4.2	4.6	4.1	3.9
Water Year Types[b]												
Wet (31%)	4.1	7.4	11.1	9.6	12.4	12.2	8.4	6.3	5.8	5.1	4.4	4.7
Above Normal (25%)	3.2	3.5	4.5	11.8	11.2	9.9	5.5	4.2	3.8	4.4	4.0	3.7
Below Normal (6%)	3.6	3.5	3.4	5.3	7.0	6.0	3.7	3.8	3.7	4.5	4.0	3.6
Dry (13%)	3.5	4.1	4.2	4.2	4.4	5.9	3.9	3.6	3.9	4.7	4.3	3.7
Critical (25%)	3.5	3.6	3.9	4.2	3.6	3.8	3.3	3.2	3.6	4.4	3.8	3.5

Alternative 2D (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	6.8	11.9	11.0	13.5	12.0	8.6	5.4	4.8	5.4	4.8	5.4
20%	4.0	5.7	5.2	9.7	12.6	10.6	4.8	4.4	4.6	5.3	4.6	5.1
30%	4.0	4.2	5.0	7.3	7.7	8.5	4.3	4.2	4.4	5.1	4.5	4.4
40%	3.9	4.0	4.6	5.4	5.8	5.5	4.0	4.1	4.3	4.8	4.4	4.1
50%	3.9	4.0	4.5	5.1	5.0	5.2	4.0	4.0	4.2	4.8	4.3	4.1
60%	3.9	4.0	4.4	4.8	4.3	4.8	3.9	4.0	4.1	4.8	4.3	4.1
70%	3.8	3.9	4.2	4.4	4.1	4.2	3.8	3.9	4.1	4.5	4.2	4.0
80%	3.8	3.7	4.1	4.1	4.0	3.9	3.8	3.8	4.0	4.3	4.2	4.0
90%	3.7	3.7	3.9	4.0	3.8	3.7	3.7	3.6	4.0	4.3	4.1	3.8
Long Term												
Full Simulation Period[a]	4.0	4.8	6.0	6.5	7.1	6.9	5.2	4.5	4.5	4.8	4.4	4.4
Water Year Types[b]												
Wet (31%)	4.2	7.1	10.9	9.2	11.9	11.2	8.5	5.8	5.4	5.1	4.6	5.4
Above Normal (25%)	3.7	3.8	4.8	10.6	11.2	9.4	4.9	4.2	4.1	5.0	4.5	4.4
Below Normal (6%)	3.9	4.0	4.1	5.4	5.8	5.0	4.0	4.0	4.3	4.3	4.1	3.9
Dry (13%)	3.9	4.3	4.5	4.4	4.5	5.5	4.1	4.3	4.5	5.1	4.5	4.0
Critical (25%)	3.9	4.0	4.3	4.5	4.0	4.0	3.7	3.7	4.0	4.4	4.1	4.0

Alternative 2D (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.1	-0.9	-0.6	-0.8	-0.5	-1.1	-0.6	-0.3	0.3	0.3	0.2	0.9
20%	0.4	-0.7	0.0	-0.3	-0.4	-0.2	-0.2	0.5	0.6	0.5	0.4	1.1
30%	0.4	0.3	0.3	-0.4	-0.4	-0.5	0.0	0.3	0.5	0.5	0.3	0.5
40%	0.4	0.3	0.2	-0.1	-1.1	-1.4	0.3	0.3	0.4	0.2	0.3	0.4
50%	0.4	0.4	0.4	-0.1	-0.2	-0.9	0.3	0.3	0.4	0.2	0.3	0.4
60%	0.4	0.4	0.3	0.2	0.4	-0.9	0.3	0.5	0.3	0.2	0.2	0.4
70%	0.5	0.5	0.3	0.4	0.3	-0.2	0.3	0.5	0.4	0.0	0.3	0.4
80%	0.5	0.5	0.3	0.4	0.3	0.2	0.4	0.4	0.4	-0.1	0.3	0.4
90%	0.5	0.4	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.1	0.3	0.4
Long Term												
Full Simulation Period[a]	0.3	0.1	0.2	-0.1	-0.1	-0.4	0.1	0.2	0.2	0.2	0.3	0.5
Water Year Types[b]												
Wet (31%)	0.1	-0.3	-0.2	-0.4	-0.5	-1.0	0.0	-0.5	-0.4	0.0	0.3	0.6
Above Normal (25%)	0.4	0.3	0.3	-1.1	0.0	-0.5	-0.6	0.0	0.2	0.7	0.5	0.6
Below Normal (6%)	0.2	0.5	0.7	0.1	-1.2	-1.0	0.2	0.1	0.5	-0.2	0.1	0.3
Dry (13%)	0.4	0.2	0.3	0.2	0.1	-0.3	0.2	0.6	0.5	0.4	0.1	0.3
Critical (25%)	0.4	0.4	0.4	0.3	0.4	0.2	0.4	0.5	0.5	0.0	0.3	0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-68-1-3. Sacramento River at Freeport, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	7.7	12.5	11.7	13.9	13.1	9.2	5.7	4.5	5.1	4.5	4.5
20%	3.6	6.4	5.2	10.0	13.0	10.8	4.9	3.9	3.9	4.8	4.3	3.9
30%	3.6	3.9	4.7	7.8	8.1	9.0	4.4	3.9	3.9	4.7	4.2	3.8
40%	3.5	3.8	4.4	5.5	6.9	6.9	3.8	3.8	3.9	4.7	4.1	3.8
50%	3.5	3.6	4.2	5.2	5.3	6.1	3.7	3.7	3.8	4.6	4.1	3.7
60%	3.4	3.5	4.0	4.6	3.9	5.7	3.6	3.5	3.8	4.6	4.0	3.7
70%	3.4	3.5	3.9	4.0	3.8	4.4	3.6	3.4	3.7	4.5	3.9	3.6
80%	3.3	3.3	3.8	3.7	3.7	3.6	3.4	3.4	3.6	4.4	3.9	3.6
90%	3.3	3.2	3.4	3.5	3.3	3.3	3.3	3.1	3.5	4.1	3.8	3.4
Long Term												
Full Simulation Period[a]	3.6	4.7	5.8	6.6	7.2	7.3	5.0	4.3	4.2	4.6	4.1	3.9
Water Year Types[b]												
Wet (31%)	4.1	7.4	11.1	9.6	12.4	12.2	8.4	6.3	5.8	5.1	4.4	4.7
Above Normal (25%)	3.2	3.5	4.5	11.8	11.2	9.9	5.5	4.2	3.8	4.4	4.0	3.7
Below Normal (6%)	3.6	3.5	3.4	5.3	7.0	6.0	3.7	3.8	3.7	4.5	4.0	3.6
Dry (13%)	3.5	4.1	4.2	4.2	4.4	5.9	3.9	3.6	3.9	4.7	4.3	3.7
Critical (25%)	3.5	3.6	3.9	4.2	3.6	3.8	3.3	3.2	3.6	4.4	3.8	3.5

Alternative 4A (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	6.9	11.8	10.9	13.5	12.0	8.6	5.3	4.7	5.2	4.8	5.5
20%	4.0	5.5	5.1	9.3	12.1	10.1	5.0	4.4	4.7	5.0	4.7	5.2
30%	4.0	4.2	5.1	7.3	7.7	8.2	4.6	4.3	4.5	5.0	4.6	4.5
40%	4.0	4.1	4.7	5.3	5.8	5.5	4.1	4.1	4.4	4.9	4.6	4.2
50%	3.9	4.0	4.6	5.2	5.0	5.3	4.0	4.0	4.3	4.9	4.5	4.2
60%	3.9	4.0	4.4	5.1	4.3	4.8	4.0	4.0	4.2	4.8	4.4	4.1
70%	3.9	4.0	4.2	4.4	4.2	4.2	3.9	3.9	4.1	4.6	4.3	4.1
80%	3.9	3.8	4.1	4.2	4.1	3.9	3.8	3.9	4.1	4.5	4.2	4.0
90%	3.8	3.7	3.9	4.1	3.8	3.8	3.7	3.7	4.1	4.3	4.1	3.9
Long Term												
Full Simulation Period[a]	4.0	4.9	6.0	6.5	7.1	6.9	5.2	4.5	4.5	4.8	4.5	4.5
Water Year Types[b]												
Wet (31%)	4.3	7.2	10.8	9.1	11.9	11.2	8.5	5.9	5.4	5.2	4.8	5.5
Above Normal (25%)	3.7	3.9	4.8	10.7	11.0	9.0	5.1	4.3	4.1	4.9	4.7	4.5
Below Normal (6%)	3.9	4.0	4.1	5.5	5.8	5.1	4.1	4.0	4.4	4.5	4.2	3.9
Dry (13%)	4.0	4.3	4.5	4.5	4.5	5.4	4.1	4.1	4.5	4.8	4.5	4.1
Critical (25%)	3.9	4.0	4.3	4.6	4.0	4.0	3.8	3.8	4.1	4.5	4.2	4.0

Alternative 4A (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.0	-0.8	-0.7	-0.8	-0.4	-1.1	-0.6	-0.4	0.2	0.1	0.3	1.0
20%	0.4	-0.8	-0.1	-0.7	-0.9	-0.7	0.1	0.5	0.7	0.3	0.4	1.3
30%	0.4	0.3	0.3	-0.4	-0.4	-0.7	0.2	0.4	0.6	0.3	0.4	0.7
40%	0.5	0.3	0.3	-0.2	-1.1	-1.3	0.3	0.3	0.5	0.2	0.5	0.4
50%	0.5	0.4	0.4	0.0	-0.3	-0.8	0.3	0.3	0.5	0.2	0.5	0.4
60%	0.5	0.5	0.3	0.5	0.4	-0.9	0.3	0.6	0.4	0.2	0.4	0.5
70%	0.5	0.5	0.4	0.5	0.3	-0.2	0.4	0.5	0.4	0.1	0.4	0.5
80%	0.6	0.5	0.3	0.5	0.3	0.3	0.4	0.5	0.5	0.1	0.3	0.4
90%	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.2	0.3	0.5
Long Term												
Full Simulation Period[a]	0.4	0.2	0.2	-0.1	-0.1	-0.5	0.2	0.2	0.3	0.1	0.4	0.6
Water Year Types[b]												
Wet (31%)	0.2	-0.2	-0.3	-0.5	-0.5	-1.0	0.0	-0.4	-0.4	0.1	0.4	0.8
Above Normal (25%)	0.5	0.3	0.3	-1.1	-0.3	-0.8	-0.3	0.1	0.3	0.5	0.7	0.8
Below Normal (6%)	0.3	0.6	0.7	0.1	-1.2	-1.0	0.4	0.2	0.6	0.0	0.1	0.4
Dry (13%)	0.5	0.2	0.3	0.3	0.1	-0.4	0.3	0.5	0.6	0.2	0.1	0.4
Critical (25%)	0.5	0.4	0.4	0.4	0.4	0.2	0.4	0.6	0.5	0.1	0.4	0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-68-1-4. Sacramento River at Freeport, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	7.7	12.5	11.7	13.9	13.1	9.2	5.7	4.5	5.1	4.5	4.5
20%	3.6	6.4	5.2	10.0	13.0	10.8	4.9	3.9	3.9	4.8	4.3	3.9
30%	3.6	3.9	4.7	7.8	8.1	9.0	4.4	3.9	3.9	4.7	4.2	3.8
40%	3.5	3.8	4.4	5.5	6.9	6.9	3.8	3.8	3.9	4.7	4.1	3.8
50%	3.5	3.6	4.2	5.2	5.3	6.1	3.7	3.7	3.8	4.6	4.1	3.7
60%	3.4	3.5	4.0	4.6	3.9	5.7	3.6	3.5	3.8	4.6	4.0	3.7
70%	3.4	3.5	3.9	4.0	3.8	4.4	3.6	3.4	3.7	4.5	3.9	3.6
80%	3.3	3.3	3.8	3.7	3.7	3.6	3.4	3.4	3.6	4.4	3.9	3.6
90%	3.3	3.2	3.4	3.5	3.3	3.3	3.3	3.1	3.5	4.1	3.8	3.4
Long Term												
Full Simulation Period[a]	3.6	4.7	5.8	6.6	7.2	7.3	5.0	4.3	4.2	4.6	4.1	3.9
Water Year Types[b]												
Wet (31%)	4.1	7.4	11.1	9.6	12.4	12.2	8.4	6.3	5.8	5.1	4.4	4.7
Above Normal (25%)	3.2	3.5	4.5	11.8	11.2	9.9	5.5	4.2	3.8	4.4	4.0	3.7
Below Normal (6%)	3.6	3.5	3.4	5.3	7.0	6.0	3.7	3.8	3.7	4.5	4.0	3.6
Dry (13%)	3.5	4.1	4.2	4.2	4.4	5.9	3.9	3.6	3.9	4.7	4.3	3.7
Critical (25%)	3.5	3.6	3.9	4.2	3.6	3.8	3.3	3.2	3.6	4.4	3.8	3.5

Alternative 5A (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	7.0	12.4	11.5	13.9	12.8	8.9	5.4	4.6	5.4	4.8	5.3
20%	4.0	5.5	5.1	9.9	12.9	10.8	4.8	4.4	4.5	5.3	4.7	4.8
30%	3.9	4.1	5.0	7.6	8.0	8.3	4.4	4.2	4.3	5.2	4.6	4.3
40%	3.9	4.1	4.6	5.3	6.0	5.8	4.1	4.1	4.3	5.1	4.5	4.1
50%	3.9	4.0	4.5	5.1	5.0	5.5	4.0	4.0	4.2	5.0	4.4	4.1
60%	3.8	4.0	4.5	4.7	4.3	4.9	4.0	4.0	4.1	4.8	4.3	4.1
70%	3.8	3.9	4.2	4.4	4.1	4.2	3.9	3.9	4.1	4.7	4.3	4.0
80%	3.7	3.7	4.1	4.3	4.0	3.9	3.8	3.8	4.0	4.5	4.2	3.9
90%	3.7	3.7	4.0	4.0	3.8	3.8	3.7	3.7	4.0	4.2	4.0	3.8
Long Term												
Full Simulation Period[a]	3.9	4.8	6.1	6.6	7.2	7.1	5.2	4.5	4.5	4.9	4.4	4.3
Water Year Types[b]												
Wet (31%)	4.2	7.2	11.2	9.4	12.3	11.7	8.7	6.1	5.4	5.2	4.7	5.3
Above Normal (25%)	3.6	3.8	4.8	11.3	11.3	9.4	5.0	4.2	4.1	5.0	4.4	4.3
Below Normal (6%)	3.9	4.0	4.1	5.4	6.0	5.2	4.0	4.0	4.3	4.6	4.1	3.9
Dry (13%)	3.9	4.3	4.5	4.5	4.5	5.5	4.1	4.1	4.3	5.2	4.6	4.0
Critical (25%)	3.9	3.9	4.3	4.4	3.9	4.1	3.8	3.7	4.0	4.5	4.1	4.0

Alternative 5A (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.1	-0.7	-0.1	-0.3	0.0	-0.3	-0.3	-0.3	0.1	0.3	0.3	0.8
20%	0.3	-0.8	-0.1	-0.2	-0.1	0.0	-0.1	0.5	0.5	0.5	0.4	0.9
30%	0.3	0.2	0.3	-0.2	-0.2	-0.6	0.1	0.4	0.4	0.5	0.3	0.5
40%	0.4	0.3	0.2	-0.1	-0.9	-1.1	0.3	0.3	0.4	0.5	0.4	0.4
50%	0.4	0.4	0.4	-0.1	-0.2	-0.6	0.3	0.3	0.4	0.3	0.4	0.4
60%	0.4	0.4	0.4	0.1	0.4	-0.8	0.3	0.5	0.4	0.2	0.2	0.4
70%	0.4	0.5	0.4	0.4	0.3	-0.2	0.3	0.4	0.4	0.2	0.3	0.4
80%	0.5	0.5	0.3	0.6	0.3	0.3	0.5	0.4	0.4	0.1	0.3	0.4
90%	0.4	0.5	0.6	0.6	0.5	0.5	0.4	0.5	0.5	0.1	0.2	0.4
Long Term												
Full Simulation Period[a]	0.3	0.2	0.3	0.1	0.0	-0.3	0.2	0.2	0.2	0.2	0.3	0.4
Water Year Types[b]												
Wet (31%)	0.1	-0.2	0.2	-0.2	-0.1	-0.5	0.3	-0.3	-0.4	0.1	0.3	0.5
Above Normal (25%)	0.4	0.3	0.3	-0.5	0.0	-0.4	-0.5	0.0	0.2	0.6	0.4	0.6
Below Normal (6%)	0.2	0.5	0.7	0.1	-1.0	-0.8	0.2	0.2	0.5	0.1	0.0	0.3
Dry (13%)	0.4	0.1	0.3	0.3	0.1	-0.4	0.2	0.5	0.4	0.5	0.2	0.3
Critical (25%)	0.4	0.4	0.4	0.3	0.3	0.2	0.4	0.5	0.5	0.1	0.3	0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-68-1-5. Sacramento River at Freeport, Monthly Averaged Daily Maximum Elevation

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.5	7.2	12.3	11.4	13.7	12.3	8.9	5.6	4.7	5.6	4.9	5.9
20%	4.2	5.6	5.2	9.9	12.7	10.6	5.1	4.4	4.4	5.5	4.8	5.3
30%	4.1	4.4	5.1	7.7	8.2	8.6	4.7	4.3	4.4	5.1	4.7	4.7
40%	4.0	4.2	4.8	5.5	6.2	6.2	4.1	4.1	4.3	5.1	4.7	4.3
50%	3.9	4.2	4.6	5.3	5.3	5.8	4.1	4.1	4.2	5.1	4.6	4.2
60%	3.9	4.1	4.5	4.9	4.4	5.1	4.0	4.0	4.2	5.0	4.5	4.1
70%	3.8	4.0	4.3	4.4	4.2	4.4	4.0	3.9	4.1	4.9	4.4	4.1
80%	3.8	3.9	4.2	4.3	4.1	3.9	3.8	3.9	4.1	4.8	4.3	4.1
90%	3.7	3.8	4.0	4.0	3.8	3.8	3.7	3.7	4.0	4.6	4.1	4.0
Long Term												
Full Simulation Period[a]	4.0	5.0	6.1	6.7	7.3	7.2	5.3	4.6	4.5	5.1	4.5	4.6
Water Year Types[b]												
Wet (31%)	4.4	7.5	11.2	9.5	12.3	11.7	8.5	6.3	5.5	5.4	4.8	5.9
Above Normal (25%)	3.7	3.9	4.8	11.3	11.2	9.5	5.4	4.4	4.1	5.0	4.6	4.7
Below Normal (6%)	4.0	4.3	4.2	5.5	6.2	5.6	4.1	4.0	4.2	4.7	4.3	4.1
Dry (13%)	4.0	4.4	4.6	4.5	4.6	5.7	4.2	4.1	4.4	5.2	4.7	4.2
Critical (25%)	4.0	4.1	4.3	4.5	4.0	4.1	3.8	3.8	4.1	4.7	4.2	4.0

Alternative 2D (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	6.8	11.9	11.0	13.5	12.0	8.6	5.4	4.8	5.4	4.8	5.4
20%	4.0	5.7	5.2	9.7	12.6	10.6	4.8	4.4	4.6	5.3	4.6	5.1
30%	4.0	4.2	5.0	7.3	7.7	8.5	4.3	4.2	4.4	5.1	4.5	4.4
40%	3.9	4.0	4.6	5.4	5.8	5.5	4.0	4.1	4.3	4.8	4.4	4.1
50%	3.9	4.0	4.5	5.1	5.0	5.2	4.0	4.0	4.2	4.8	4.3	4.1
60%	3.9	4.0	4.4	4.8	4.3	4.8	3.9	4.0	4.1	4.8	4.3	4.1
70%	3.8	3.9	4.2	4.4	4.1	4.2	3.8	3.9	4.1	4.5	4.2	4.0
80%	3.8	3.7	4.1	4.1	4.0	3.9	3.8	3.8	4.0	4.3	4.2	4.0
90%	3.7	3.7	3.9	4.0	3.8	3.7	3.7	3.6	4.0	4.3	4.1	3.8
Long Term												
Full Simulation Period[a]	4.0	4.8	6.0	6.5	7.1	6.9	5.2	4.5	4.5	4.8	4.4	4.4
Water Year Types[b]												
Wet (31%)	4.2	7.1	10.9	9.2	11.9	11.2	8.5	5.8	5.4	5.1	4.6	5.4
Above Normal (25%)	3.7	3.8	4.8	10.6	11.2	9.4	4.9	4.2	4.1	5.0	4.5	4.4
Below Normal (6%)	3.9	4.0	4.1	5.4	5.8	5.0	4.0	4.0	4.3	4.3	4.1	3.9
Dry (13%)	3.9	4.3	4.5	4.4	4.5	5.5	4.1	4.3	4.5	5.1	4.5	4.0
Critical (25%)	3.9	4.0	4.3	4.5	4.0	4.0	3.7	3.7	4.0	4.4	4.1	4.0

Alternative 2D (ELT) minus No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.3	-0.5	-0.5	-0.4	-0.3	-0.4	-0.2	-0.3	0.1	-0.2	-0.2	-0.4
20%	-0.1	0.1	-0.1	-0.2	-0.1	0.0	-0.4	0.0	0.1	-0.2	-0.1	-0.2
30%	-0.1	-0.2	0.0	-0.4	-0.5	-0.1	-0.3	-0.1	0.1	0.0	-0.2	-0.3
40%	0.0	-0.2	-0.1	-0.1	-0.3	-0.8	-0.1	0.0	0.0	-0.3	-0.3	-0.2
50%	0.0	-0.2	-0.1	-0.2	-0.2	-0.6	-0.1	-0.1	0.0	-0.3	-0.2	-0.1
60%	0.0	-0.1	-0.1	-0.1	-0.1	-0.3	-0.1	-0.1	0.0	-0.2	-0.2	-0.1
70%	0.0	-0.1	0.0	0.0	0.0	-0.2	-0.1	0.0	-0.1	-0.4	-0.1	-0.1
80%	0.0	-0.2	-0.1	-0.2	-0.1	-0.1	-0.1	0.0	0.0	-0.5	-0.1	-0.1
90%	0.0	-0.1	-0.1	0.0	0.0	0.0	-0.1	-0.1	0.0	-0.3	-0.1	-0.2
Long Term												
Full Simulation Period[a]	-0.1	-0.2	-0.1	-0.2	-0.2	-0.3	-0.1	-0.1	0.0	-0.2	-0.2	-0.2
Water Year Types[b]												
Wet (31%)	-0.1	-0.4	-0.3	-0.3	-0.4	-0.5	0.0	-0.4	-0.1	-0.3	-0.2	-0.5
Above Normal (25%)	0.0	-0.1	-0.1	-0.7	0.0	-0.1	-0.5	-0.2	0.0	0.1	-0.2	-0.3
Below Normal (6%)	-0.1	-0.3	-0.1	-0.1	-0.3	-0.6	-0.1	-0.1	0.1	-0.4	-0.2	-0.2
Dry (13%)	-0.1	-0.1	-0.1	-0.1	-0.1	-0.2	-0.2	0.2	0.1	-0.1	-0.2	-0.2
Critical (25%)	0.0	-0.1	0.0	-0.1	0.0	-0.1	-0.1	0.0	-0.1	-0.3	-0.1	0.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-68-1-6. Sacramento River at Freeport, Monthly Averaged Daily Maximum Elevation

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.5	7.2	12.3	11.4	13.7	12.3	8.9	5.6	4.7	5.6	4.9	5.9
20%	4.2	5.6	5.2	9.9	12.7	10.6	5.1	4.4	4.4	5.5	4.8	5.3
30%	4.1	4.4	5.1	7.7	8.2	8.6	4.7	4.3	4.4	5.1	4.7	4.7
40%	4.0	4.2	4.8	5.5	6.2	6.2	4.1	4.1	4.3	5.1	4.7	4.3
50%	3.9	4.2	4.6	5.3	5.3	5.8	4.1	4.1	4.2	5.1	4.6	4.2
60%	3.9	4.1	4.5	4.9	4.4	5.1	4.0	4.0	4.2	5.0	4.5	4.1
70%	3.8	4.0	4.3	4.4	4.2	4.4	4.0	3.9	4.1	4.9	4.4	4.1
80%	3.8	3.9	4.2	4.3	4.1	3.9	3.8	3.9	4.1	4.8	4.3	4.1
90%	3.7	3.8	4.0	4.0	3.8	3.8	3.7	3.7	4.0	4.6	4.1	4.0
Long Term												
Full Simulation Period[a]	4.0	5.0	6.1	6.7	7.3	7.2	5.3	4.6	4.5	5.1	4.5	4.6
Water Year Types[b]												
Wet (31%)	4.4	7.5	11.2	9.5	12.3	11.7	8.5	6.3	5.5	5.4	4.8	5.9
Above Normal (25%)	3.7	3.9	4.8	11.3	11.2	9.5	5.4	4.4	4.1	5.0	4.6	4.7
Below Normal (6%)	4.0	4.3	4.2	5.5	6.2	5.6	4.1	4.0	4.2	4.7	4.3	4.1
Dry (13%)	4.0	4.4	4.6	4.5	4.6	5.7	4.2	4.1	4.4	5.2	4.7	4.2
Critical (25%)	4.0	4.1	4.3	4.5	4.0	4.1	3.8	3.8	4.1	4.7	4.2	4.0

Alternative 4A (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	6.9	11.8	10.9	13.5	12.0	8.6	5.3	4.7	5.2	4.8	5.5
20%	4.0	5.5	5.1	9.3	12.1	10.1	5.0	4.4	4.7	5.0	4.7	5.2
30%	4.0	4.2	5.1	7.3	7.7	8.2	4.6	4.3	4.5	5.0	4.6	4.5
40%	4.0	4.1	4.7	5.3	5.8	5.5	4.1	4.1	4.4	4.9	4.6	4.2
50%	3.9	4.0	4.6	5.2	5.0	5.3	4.0	4.0	4.3	4.9	4.5	4.2
60%	3.9	4.0	4.4	5.1	4.3	4.8	4.0	4.0	4.2	4.8	4.4	4.1
70%	3.9	4.0	4.2	4.4	4.2	4.2	3.9	3.9	4.1	4.6	4.3	4.1
80%	3.9	3.8	4.1	4.2	4.1	3.9	3.8	3.9	4.1	4.5	4.2	4.0
90%	3.8	3.7	3.9	4.1	3.8	3.8	3.7	3.7	4.1	4.3	4.1	3.9
Long Term												
Full Simulation Period[a]	4.0	4.9	6.0	6.5	7.1	6.9	5.2	4.5	4.5	4.8	4.5	4.5
Water Year Types[b]												
Wet (31%)	4.3	7.2	10.8	9.1	11.9	11.2	8.5	5.9	5.4	5.2	4.8	5.5
Above Normal (25%)	3.7	3.9	4.8	10.7	11.0	9.0	5.1	4.3	4.1	4.9	4.7	4.5
Below Normal (6%)	3.9	4.0	4.1	5.5	5.8	5.1	4.1	4.0	4.4	4.5	4.2	3.9
Dry (13%)	4.0	4.3	4.5	4.5	4.5	5.4	4.1	4.1	4.5	4.8	4.5	4.1
Critical (25%)	3.9	4.0	4.3	4.6	4.0	4.0	3.8	3.8	4.1	4.5	4.2	4.0

Alternative 4A (ELT) minus No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.2	-0.3	-0.5	-0.5	-0.2	-0.3	-0.3	-0.3	0.0	-0.5	-0.2	-0.3
20%	-0.1	-0.1	-0.1	-0.6	-0.6	-0.5	-0.1	0.0	0.2	-0.4	-0.1	-0.1
30%	-0.1	-0.2	0.0	-0.4	-0.5	-0.4	-0.1	0.0	0.1	-0.2	-0.1	-0.2
40%	0.0	-0.2	0.0	-0.2	-0.3	-0.7	0.0	0.0	0.1	-0.2	-0.1	-0.2
50%	0.0	-0.1	0.0	-0.1	-0.3	-0.5	0.0	0.0	0.1	-0.2	-0.1	0.0
60%	0.1	0.0	-0.1	0.2	0.0	-0.3	0.0	0.0	0.0	-0.2	-0.1	0.0
70%	0.1	-0.1	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	-0.3	-0.1	0.0
80%	0.1	-0.2	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	-0.3	-0.1	-0.1
90%	0.1	0.0	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	-0.3	0.0	-0.1
Long Term												
Full Simulation Period[a]	0.0	-0.2	-0.1	-0.2	-0.2	-0.3	-0.1	-0.1	0.0	-0.3	-0.1	-0.2
Water Year Types[b]												
Wet (31%)	-0.1	-0.3	-0.4	-0.4	-0.4	-0.5	0.0	-0.4	-0.2	-0.3	0.0	-0.4
Above Normal (25%)	0.0	-0.1	0.0	-0.7	-0.3	-0.5	-0.2	-0.1	0.0	-0.1	0.0	-0.2
Below Normal (6%)	-0.1	-0.3	0.0	0.0	-0.3	-0.5	0.0	0.0	0.2	-0.2	-0.1	-0.2
Dry (13%)	0.0	-0.1	-0.1	-0.1	-0.2	-0.2	-0.1	0.0	0.1	-0.3	-0.3	-0.1
Critical (25%)	0.0	-0.1	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	-0.3	0.0	0.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-68-1-7. Sacramento River at Freeport, Monthly Averaged Daily Maximum Elevation

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.5	7.2	12.3	11.4	13.7	12.3	8.9	5.6	4.7	5.6	4.9	5.9
20%	4.2	5.6	5.2	9.9	12.7	10.6	5.1	4.4	4.4	5.5	4.8	5.3
30%	4.1	4.4	5.1	7.7	8.2	8.6	4.7	4.3	4.4	5.1	4.7	4.7
40%	4.0	4.2	4.8	5.5	6.2	6.2	4.1	4.1	4.3	5.1	4.7	4.3
50%	3.9	4.2	4.6	5.3	5.3	5.8	4.1	4.1	4.2	5.1	4.6	4.2
60%	3.9	4.1	4.5	4.9	4.4	5.1	4.0	4.0	4.2	5.0	4.5	4.1
70%	3.8	4.0	4.3	4.4	4.2	4.4	4.0	3.9	4.1	4.9	4.4	4.1
80%	3.8	3.9	4.2	4.3	4.1	3.9	3.8	3.9	4.1	4.8	4.3	4.1
90%	3.7	3.8	4.0	4.0	3.8	3.8	3.7	3.7	4.0	4.6	4.1	4.0
Long Term												
Full Simulation Period[a]	4.0	5.0	6.1	6.7	7.3	7.2	5.3	4.6	4.5	5.1	4.5	4.6
Water Year Types[b]												
Wet (31%)	4.4	7.5	11.2	9.5	12.3	11.7	8.5	6.3	5.5	5.4	4.8	5.9
Above Normal (25%)	3.7	3.9	4.8	11.3	11.2	9.5	5.4	4.4	4.1	5.0	4.6	4.7
Below Normal (6%)	4.0	4.3	4.2	5.5	6.2	5.6	4.1	4.0	4.2	4.7	4.3	4.1
Dry (13%)	4.0	4.4	4.6	4.5	4.6	5.7	4.2	4.1	4.4	5.2	4.7	4.2
Critical (25%)	4.0	4.1	4.3	4.5	4.0	4.1	3.8	3.8	4.1	4.7	4.2	4.0

Alternative 5A (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.3	7.0	12.4	11.5	13.9	12.8	8.9	5.4	4.6	5.4	4.8	5.3
20%	4.0	5.5	5.1	9.9	12.9	10.8	4.8	4.4	4.5	5.3	4.7	4.8
30%	3.9	4.1	5.0	7.6	8.0	8.3	4.4	4.2	4.3	5.2	4.6	4.3
40%	3.9	4.1	4.6	5.3	6.0	5.8	4.1	4.1	4.3	5.1	4.5	4.1
50%	3.9	4.0	4.5	5.1	5.0	5.5	4.0	4.0	4.2	5.0	4.4	4.1
60%	3.8	4.0	4.5	4.7	4.3	4.9	4.0	4.0	4.1	4.8	4.3	4.1
70%	3.8	3.9	4.2	4.4	4.1	4.2	3.9	3.9	4.1	4.7	4.3	4.0
80%	3.7	3.7	4.1	4.3	4.0	3.9	3.8	3.8	4.0	4.5	4.2	3.9
90%	3.7	3.7	4.0	4.0	3.8	3.8	3.7	3.7	4.0	4.2	4.0	3.8
Long Term												
Full Simulation Period[a]	3.9	4.8	6.1	6.6	7.2	7.1	5.2	4.5	4.5	4.9	4.4	4.3
Water Year Types[b]												
Wet (31%)	4.2	7.2	11.2	9.4	12.3	11.7	8.7	6.1	5.4	5.2	4.7	5.3
Above Normal (25%)	3.6	3.8	4.8	11.3	11.3	9.4	5.0	4.2	4.1	5.0	4.4	4.3
Below Normal (6%)	3.9	4.0	4.1	5.4	6.0	5.2	4.0	4.0	4.3	4.6	4.1	3.9
Dry (13%)	3.9	4.3	4.5	4.5	4.5	5.5	4.1	4.1	4.3	5.2	4.6	4.0
Critical (25%)	3.9	3.9	4.3	4.4	3.9	4.1	3.8	3.7	4.0	4.5	4.1	4.0

Alternative 5A (ELT) minus No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.3	-0.3	0.1	0.0	0.2	0.4	0.0	-0.3	-0.1	-0.2	-0.1	-0.5
20%	-0.2	-0.1	-0.1	0.0	0.2	0.2	-0.3	0.0	0.0	-0.2	-0.1	-0.5
30%	-0.2	-0.3	0.0	-0.1	-0.2	-0.3	-0.2	-0.1	-0.1	0.0	-0.2	-0.4
40%	-0.1	-0.2	-0.1	-0.2	-0.1	-0.5	-0.1	0.0	0.0	0.0	-0.1	-0.2
50%	0.0	-0.2	-0.1	-0.2	-0.2	-0.3	-0.1	-0.1	0.0	-0.1	-0.2	-0.1
60%	0.0	-0.1	0.0	-0.2	-0.1	-0.3	-0.1	-0.1	0.0	-0.2	-0.2	0.0
70%	0.0	-0.1	0.0	-0.1	-0.1	-0.1	-0.1	0.0	0.0	-0.2	-0.1	-0.1
80%	0.0	-0.2	0.0	0.0	-0.1	0.0	0.0	0.0	-0.1	-0.3	-0.1	-0.1
90%	0.0	-0.1	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	-0.4	-0.1	-0.2
Long Term												
Full Simulation Period[a]	-0.1	-0.2	0.0	-0.1	-0.1	-0.1	0.0	-0.1	-0.1	-0.2	-0.1	-0.3
Water Year Types[b]												
Wet (31%)	-0.1	-0.3	0.0	-0.1	0.0	0.0	0.2	-0.2	-0.1	-0.2	-0.1	-0.7
Above Normal (25%)	0.0	-0.1	-0.1	-0.1	0.0	0.0	-0.4	-0.1	0.0	0.0	-0.2	-0.4
Below Normal (6%)	-0.1	-0.3	0.0	-0.1	-0.1	-0.4	-0.2	-0.1	0.1	-0.1	-0.2	-0.2
Dry (13%)	-0.1	-0.1	-0.1	0.0	-0.1	-0.2	-0.1	0.0	0.0	0.0	-0.1	-0.1
Critical (25%)	-0.1	-0.1	0.0	-0.1	-0.1	-0.1	0.0	0.0	0.0	-0.3	-0.1	0.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-68-2-1. Sacramento River at Freeport, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.6	6.3	11.9	11.1	13.5	12.7	8.5	4.3	2.5	3.2	2.4	2.6
20%	1.7	5.0	3.7	9.1	12.4	10.1	3.3	1.9	1.6	2.8	2.2	1.7
30%	1.4	2.0	2.8	6.6	7.0	8.0	2.6	1.8	1.5	2.8	2.1	1.7
40%	1.2	1.3	2.4	3.5	5.6	6.0	1.9	1.6	1.4	2.7	2.0	1.6
50%	1.2	1.2	2.1	3.5	3.7	4.7	1.7	1.4	1.4	2.7	1.8	1.3
60%	1.1	1.1	1.8	2.7	1.9	4.4	1.5	1.1	1.4	2.7	1.6	1.2
70%	1.0	1.0	1.6	1.8	1.8	2.8	1.4	0.9	1.1	2.5	1.6	1.2
80%	0.9	0.9	1.4	1.6	1.7	1.8	1.3	0.8	0.9	2.2	1.5	0.9
90%	0.7	0.6	0.9	1.2	0.9	1.1	1.0	0.5	0.8	1.9	1.2	0.9
Long Term												
Full Simulation Period[a]	1.4	2.6	3.9	4.9	5.7	6.1	3.3	2.1	1.9	2.6	1.8	1.6
Water Year Types[b]												
Wet (31%)	2.2	5.9	10.2	8.7	11.7	11.7	7.2	4.8	3.9	3.2	2.1	2.9
Above Normal (25%)	0.9	1.3	2.5	10.9	10.4	9.1	4.2	2.4	1.6	2.3	1.8	1.6
Below Normal (6%)	1.7	1.1	1.0	3.5	5.6	4.8	1.9	1.9	1.6	2.8	2.0	1.3
Dry (13%)	1.1	2.0	2.1	2.1	2.5	4.4	1.9	1.3	1.5	2.7	2.2	1.4
Critical (25%)	1.2	1.1	1.6	2.1	1.4	1.9	1.1	0.6	0.8	2.2	1.3	0.9

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.5	5.6	11.6	10.7	13.3	11.8	8.0	4.0	2.2	3.8	2.6	4.3
20%	2.0	3.8	3.5	9.1	12.1	9.8	3.4	2.2	1.8	3.2	2.5	3.5
30%	1.7	2.4	3.0	6.4	7.1	7.5	2.8	1.9	1.8	3.1	2.5	2.9
40%	1.7	2.0	2.6	3.6	4.4	5.2	2.1	1.7	1.8	3.0	2.4	2.0
50%	1.4	1.8	2.4	3.4	3.6	4.3	1.9	1.6	1.6	3.0	2.3	1.8
60%	1.3	1.6	2.1	2.9	2.3	3.5	1.7	1.5	1.5	2.7	2.0	1.6
70%	1.2	1.4	2.0	2.1	2.0	2.5	1.6	1.3	1.3	2.7	1.7	1.4
80%	1.2	1.2	1.6	2.0	1.7	1.8	1.5	1.1	1.2	2.6	1.4	1.3
90%	1.0	1.0	1.3	1.7	1.2	1.4	1.4	0.9	1.2	2.2	1.3	1.2
Long Term												
Full Simulation Period[a]	1.6	2.8	4.1	5.0	5.6	5.8	3.4	2.2	2.0	2.9	2.1	2.4
Water Year Types[b]												
Wet (31%)	2.1	5.8	10.2	8.5	11.6	11.1	7.2	4.5	3.3	3.4	2.4	4.3
Above Normal (25%)	1.1	1.5	2.7	10.4	10.4	8.7	4.0	2.2	1.5	3.0	2.5	2.9
Below Normal (6%)	1.8	2.2	1.9	3.6	4.4	4.2	2.1	1.8	1.8	2.7	2.0	1.8
Dry (13%)	1.5	2.2	2.3	2.3	2.6	4.0	2.1	1.6	1.7	3.1	2.3	1.7
Critical (25%)	1.5	1.5	1.7	2.3	1.6	2.0	1.5	1.1	1.2	2.3	1.4	1.2

No Action Alternative (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.1	-0.7	-0.3	-0.4	-0.2	-0.9	-0.4	-0.3	-0.3	0.6	0.2	1.7
20%	0.4	-1.2	-0.2	0.0	-0.4	-0.3	0.0	0.2	0.3	0.4	0.3	1.7
30%	0.4	0.4	0.2	-0.3	0.1	-0.5	0.2	0.1	0.3	0.3	0.4	1.2
40%	0.5	0.7	0.2	0.1	-1.2	-0.9	0.2	0.1	0.3	0.3	0.4	0.4
50%	0.3	0.7	0.3	-0.1	-0.2	-0.4	0.2	0.3	0.2	0.3	0.4	0.5
60%	0.2	0.4	0.3	0.2	0.4	-0.9	0.3	0.4	0.2	0.1	0.4	0.4
70%	0.2	0.4	0.3	0.3	0.2	-0.3	0.2	0.3	0.2	0.2	0.1	0.1
80%	0.3	0.3	0.2	0.4	0.0	0.0	0.2	0.4	0.3	0.5	-0.1	0.3
90%	0.3	0.4	0.3	0.5	0.3	0.4	0.4	0.4	0.4	0.3	0.1	0.3
Long Term												
Full Simulation Period[a]	0.2	0.2	0.2	0.0	0.0	-0.3	0.1	0.1	0.1	0.2	0.2	0.7
Water Year Types[b]												
Wet (31%)	-0.1	-0.1	0.0	-0.2	-0.2	-0.6	0.0	-0.3	-0.5	0.1	0.3	1.5
Above Normal (25%)	0.2	0.1	0.3	-0.5	0.0	-0.5	-0.3	-0.1	-0.1	0.6	0.6	1.2
Below Normal (6%)	0.1	1.0	0.9	0.1	-1.2	-0.6	0.2	-0.1	0.3	-0.1	-0.1	0.4
Dry (13%)	0.4	0.2	0.2	0.2	0.1	-0.4	0.2	0.3	0.3	0.4	0.1	0.3
Critical (25%)	0.3	0.4	0.2	0.3	0.2	0.1	0.3	0.5	0.4	0.1	0.1	0.3

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

Table C-68-2-2. Sacramento River at Freeport, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.6	6.3	11.9	11.1	13.5	12.7	8.5	4.3	2.5	3.2	2.4	2.6
20%	1.7	5.0	3.7	9.1	12.4	10.1	3.3	1.9	1.6	2.8	2.2	1.7
30%	1.4	2.0	2.8	6.6	7.0	8.0	2.6	1.8	1.5	2.8	2.1	1.7
40%	1.2	1.3	2.4	3.5	5.6	6.0	1.9	1.6	1.4	2.7	2.0	1.6
50%	1.2	1.2	2.1	3.5	3.7	4.7	1.7	1.4	1.4	2.7	1.8	1.3
60%	1.1	1.1	1.8	2.7	1.9	4.4	1.5	1.1	1.4	2.7	1.6	1.2
70%	1.0	1.0	1.6	1.8	1.8	2.8	1.4	0.9	1.1	2.5	1.6	1.2
80%	0.9	0.9	1.4	1.6	1.7	1.8	1.3	0.8	0.9	2.2	1.5	0.9
90%	0.7	0.6	0.9	1.2	0.9	1.1	1.0	0.5	0.8	1.9	1.2	0.9
Long Term												
Full Simulation Period[a]	1.4	2.6	3.9	4.9	5.7	6.1	3.3	2.1	1.9	2.6	1.8	1.6
Water Year Types[b]												
Wet (31%)	2.2	5.9	10.2	8.7	11.7	11.7	7.2	4.8	3.9	3.2	2.1	2.9
Above Normal (25%)	0.9	1.3	2.5	10.9	10.4	9.1	4.2	2.4	1.6	2.3	1.8	1.6
Below Normal (6%)	1.7	1.1	1.0	3.5	5.6	4.8	1.9	1.9	1.6	2.8	2.0	1.3
Dry (13%)	1.1	2.0	2.1	2.1	2.5	4.4	1.9	1.3	1.5	2.7	2.2	1.4
Critical (25%)	1.2	1.1	1.6	2.1	1.4	1.9	1.1	0.6	0.8	2.2	1.3	0.9

Alternative 2D (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.3	4.3	10.4	9.6	12.2	11.0	7.0	3.0	2.1	3.5	2.3	2.7
20%	1.2	3.1	2.8	8.0	11.1	8.9	2.9	2.0	2.0	3.3	1.8	2.5
30%	1.2	1.4	2.6	5.3	5.8	6.7	2.2	1.9	1.9	2.8	1.7	1.6
40%	1.1	1.3	2.1	3.0	3.6	3.7	1.8	1.8	1.9	2.7	1.6	1.4
50%	1.1	1.2	1.9	2.7	2.8	3.3	1.7	1.8	1.6	2.5	1.5	1.3
60%	1.0	0.9	1.8	2.3	1.7	2.8	1.6	1.6	1.4	2.1	1.4	1.2
70%	1.0	0.9	1.6	1.8	1.6	2.1	1.5	1.3	1.3	1.8	1.3	1.2
80%	0.9	0.8	1.5	1.6	1.5	1.5	1.5	1.1	1.2	1.6	1.3	1.1
90%	0.8	0.8	1.1	1.5	1.2	1.2	1.4	0.9	1.2	1.4	1.2	1.1
Long Term												
Full Simulation Period[a]	1.1	2.1	3.7	4.3	5.0	5.0	3.1	2.1	1.9	2.4	1.6	1.6
Water Year Types[b]												
Wet (31%)	1.2	4.6	9.3	7.5	10.5	10.0	6.6	3.6	2.8	2.7	1.6	2.7
Above Normal (25%)	1.0	0.9	2.3	9.2	9.5	7.7	2.9	1.9	1.5	3.1	1.9	1.6
Below Normal (6%)	1.1	0.8	1.5	3.1	3.6	3.1	1.8	1.8	2.0	1.1	1.0	1.1
Dry (13%)	1.0	1.5	1.9	1.8	2.0	3.4	1.9	1.9	1.9	3.0	2.0	1.1
Critical (25%)	1.1	1.2	1.6	2.0	1.4	1.7	1.4	1.1	1.2	1.7	1.4	1.2

Alternative 2D (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1.3	-2.0	-1.5	-1.5	-1.3	-1.7	-1.5	-1.3	-0.4	0.3	-0.2	0.1
20%	-0.4	-1.9	-0.9	-1.2	-1.4	-1.2	-0.4	0.0	0.4	0.5	-0.4	0.8
30%	-0.2	-0.6	-0.2	-1.3	-1.2	-1.3	-0.5	0.1	0.4	0.1	-0.4	-0.1
40%	0.0	-0.1	-0.3	-0.6	-1.9	-2.4	0.0	0.2	0.4	0.0	-0.5	-0.2
50%	-0.1	0.0	-0.1	-0.8	-1.0	-1.4	0.0	0.4	0.1	-0.2	-0.3	-0.1
60%	-0.1	-0.2	0.0	-0.4	-0.2	-1.6	0.1	0.4	0.1	-0.6	-0.2	0.0
70%	0.0	-0.1	-0.1	0.0	-0.2	-0.8	0.2	0.4	0.2	-0.7	-0.2	0.0
80%	0.0	-0.1	0.1	0.1	-0.2	-0.3	0.2	0.3	0.4	-0.6	-0.2	0.2
90%	0.1	0.1	0.2	0.3	0.3	0.2	0.5	0.4	0.4	-0.5	0.0	0.2
Long Term												
Full Simulation Period[a]	-0.3	-0.5	-0.3	-0.6	-0.7	-1.0	-0.2	-0.1	0.0	-0.2	-0.2	0.0
Water Year Types[b]												
Wet (31%)	-1.0	-1.3	-0.9	-1.2	-1.2	-1.8	-0.6	-1.2	-1.1	-0.5	-0.5	-0.2
Above Normal (25%)	0.1	-0.5	-0.1	-1.8	-0.9	-1.4	-1.3	-0.5	-0.2	0.8	0.1	-0.1
Below Normal (6%)	-0.5	-0.4	0.5	-0.4	-1.9	-1.7	0.0	-0.2	0.4	-1.7	-1.0	-0.2
Dry (13%)	-0.2	-0.5	-0.2	-0.3	-0.5	-1.0	0.0	0.6	0.5	0.3	-0.3	-0.3
Critical (25%)	-0.1	0.1	0.0	-0.1	0.0	-0.2	0.3	0.5	0.4	-0.5	0.1	0.3

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-68-2-3. Sacramento River at Freeport, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.6	6.3	11.9	11.1	13.5	12.7	8.5	4.3	2.5	3.2	2.4	2.6
20%	1.7	5.0	3.7	9.1	12.4	10.1	3.3	1.9	1.6	2.8	2.2	1.7
30%	1.4	2.0	2.8	6.6	7.0	8.0	2.6	1.8	1.5	2.8	2.1	1.7
40%	1.2	1.3	2.4	3.5	5.6	6.0	1.9	1.6	1.4	2.7	2.0	1.6
50%	1.2	1.2	2.1	3.5	3.7	4.7	1.7	1.4	1.4	2.7	1.8	1.3
60%	1.1	1.1	1.8	2.7	1.9	4.4	1.5	1.1	1.4	2.7	1.6	1.2
70%	1.0	1.0	1.6	1.8	1.8	2.8	1.4	0.9	1.1	2.5	1.6	1.2
80%	0.9	0.9	1.4	1.6	1.7	1.8	1.3	0.8	0.9	2.2	1.5	0.9
90%	0.7	0.6	0.9	1.2	0.9	1.1	1.0	0.5	0.8	1.9	1.2	0.9
Long Term												
Full Simulation Period[a]	1.4	2.6	3.9	4.9	5.7	6.1	3.3	2.1	1.9	2.6	1.8	1.6
Water Year Types[b]												
Wet (31%)	2.2	5.9	10.2	8.7	11.7	11.7	7.2	4.8	3.9	3.2	2.1	2.9
Above Normal (25%)	0.9	1.3	2.5	10.9	10.4	9.1	4.2	2.4	1.6	2.3	1.8	1.6
Below Normal (6%)	1.7	1.1	1.0	3.5	5.6	4.8	1.9	1.9	1.6	2.8	2.0	1.3
Dry (13%)	1.1	2.0	2.1	2.1	2.5	4.4	1.9	1.3	1.5	2.7	2.2	1.4
Critical (25%)	1.2	1.1	1.6	2.1	1.4	1.9	1.1	0.6	0.8	2.2	1.3	0.9

Alternative 4A (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.5	4.8	10.8	10.0	12.6	11.5	7.5	3.4	2.0	2.5	2.0	3.3
20%	1.2	3.2	2.9	8.2	11.4	9.1	3.3	2.1	1.8	2.2	1.9	3.1
30%	1.2	1.4	2.7	5.7	6.3	6.8	2.6	1.9	1.7	2.1	1.7	2.2
40%	1.1	1.2	2.3	3.2	3.8	4.1	2.1	1.8	1.7	2.0	1.6	1.4
50%	1.1	1.2	2.0	3.2	3.0	3.6	1.8	1.6	1.5	1.9	1.6	1.3
60%	1.0	1.1	1.8	2.6	1.9	3.0	1.6	1.5	1.4	1.8	1.5	1.3
70%	1.0	0.9	1.5	1.8	1.6	2.1	1.6	1.2	1.3	1.8	1.5	1.2
80%	0.9	0.8	1.4	1.7	1.5	1.6	1.6	1.1	1.2	1.7	1.5	1.1
90%	0.9	0.8	1.1	1.4	1.0	1.3	1.4	0.9	1.2	1.6	1.3	1.1
Long Term												
Full Simulation Period[a]	1.2	2.2	3.7	4.5	5.2	5.2	3.3	2.1	1.8	2.0	1.6	1.8
Water Year Types[b]												
Wet (31%)	1.5	5.0	9.5	7.9	10.9	10.4	6.9	4.0	3.0	2.3	1.7	3.3
Above Normal (25%)	1.0	1.0	2.4	9.6	9.7	7.9	3.6	2.1	1.3	2.4	2.0	2.2
Below Normal (6%)	1.1	0.9	1.5	3.2	3.8	3.4	2.1	1.8	1.7	1.7	1.0	1.1
Dry (13%)	1.0	1.5	1.9	1.9	2.2	3.5	2.0	1.6	1.7	2.0	1.7	1.1
Critical (25%)	1.1	1.2	1.5	2.2	1.4	1.8	1.4	1.1	1.2	1.6	1.5	1.3

Alternative 4A (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1.1	-1.6	-1.1	-1.1	-0.9	-1.2	-1.0	-0.9	-0.5	-0.7	-0.5	0.8
20%	-0.4	-1.8	-0.9	-0.9	-1.0	-0.9	-0.1	0.2	0.3	-0.6	-0.3	1.3
30%	-0.2	-0.6	-0.1	-0.9	-0.7	-1.2	0.0	0.1	0.2	-0.6	-0.4	0.5
40%	-0.1	-0.1	-0.1	-0.3	-1.7	-1.9	0.2	0.2	0.2	-0.7	-0.4	-0.2
50%	-0.1	0.0	-0.1	-0.3	-0.8	-1.2	0.1	0.3	0.1	-0.7	-0.3	0.0
60%	-0.1	-0.1	0.0	-0.1	0.0	-1.4	0.2	0.4	0.0	-0.8	-0.1	0.0
70%	0.0	-0.1	-0.1	0.0	-0.2	-0.7	0.2	0.3	0.2	-0.7	-0.1	-0.1
80%	0.1	-0.1	0.0	0.1	-0.2	-0.2	0.3	0.3	0.4	-0.5	0.0	0.2
90%	0.2	0.2	0.2	0.3	0.1	0.2	0.4	0.4	0.4	-0.3	0.1	0.2
Long Term												
Full Simulation Period[a]	-0.3	-0.4	-0.2	-0.4	-0.5	-0.8	0.0	0.0	-0.1	-0.6	-0.2	0.2
Water Year Types[b]												
Wet (31%)	-0.7	-0.9	-0.6	-0.9	-0.8	-1.3	-0.3	-0.8	-0.9	-0.9	-0.4	0.4
Above Normal (25%)	0.1	-0.4	-0.1	-1.3	-0.7	-1.2	-0.6	-0.3	-0.3	0.1	0.1	0.5
Below Normal (6%)	-0.5	-0.2	0.5	-0.3	-1.7	-1.5	0.2	-0.2	0.2	-1.1	-1.0	-0.2
Dry (13%)	-0.1	-0.4	-0.2	-0.2	-0.4	-0.9	0.1	0.3	0.3	-0.7	-0.6	-0.3
Critical (25%)	-0.1	0.1	0.0	0.2	-0.1	-0.1	0.3	0.5	0.4	-0.6	0.2	0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-68-2-4. Sacramento River at Freeport, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.6	6.3	11.9	11.1	13.5	12.7	8.5	4.3	2.5	3.2	2.4	2.6
20%	1.7	5.0	3.7	9.1	12.4	10.1	3.3	1.9	1.6	2.8	2.2	1.7
30%	1.4	2.0	2.8	6.6	7.0	8.0	2.6	1.8	1.5	2.8	2.1	1.7
40%	1.2	1.3	2.4	3.5	5.6	6.0	1.9	1.6	1.4	2.7	2.0	1.6
50%	1.2	1.2	2.1	3.5	3.7	4.7	1.7	1.4	1.4	2.7	1.8	1.3
60%	1.1	1.1	1.8	2.7	1.9	4.4	1.5	1.1	1.4	2.7	1.6	1.2
70%	1.0	1.0	1.6	1.8	1.8	2.8	1.4	0.9	1.1	2.5	1.6	1.2
80%	0.9	0.9	1.4	1.6	1.7	1.8	1.3	0.8	0.9	2.2	1.5	0.9
90%	0.7	0.6	0.9	1.2	0.9	1.1	1.0	0.5	0.8	1.9	1.2	0.9
Long Term												
Full Simulation Period[a]	1.4	2.6	3.9	4.9	5.7	6.1	3.3	2.1	1.9	2.6	1.8	1.6
Water Year Types[b]												
Wet (31%)	2.2	5.9	10.2	8.7	11.7	11.7	7.2	4.8	3.9	3.2	2.1	2.9
Above Normal (25%)	0.9	1.3	2.5	10.9	10.4	9.1	4.2	2.4	1.6	2.3	1.8	1.6
Below Normal (6%)	1.7	1.1	1.0	3.5	5.6	4.8	1.9	1.9	1.6	2.8	2.0	1.3
Dry (13%)	1.1	2.0	2.1	2.1	2.5	4.4	1.9	1.3	1.5	2.7	2.2	1.4
Critical (25%)	1.2	1.1	1.6	2.1	1.4	1.9	1.1	0.6	0.8	2.2	1.3	0.9

Alternative 5A (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.0	5.1	11.6	10.7	13.3	12.3	8.0	3.5	2.0	3.3	2.4	3.3
20%	1.4	3.6	3.3	8.9	12.2	9.9	2.9	2.1	1.8	3.2	2.3	2.6
30%	1.3	1.6	2.9	6.1	6.7	7.1	2.3	1.9	1.7	3.1	2.1	2.0
40%	1.2	1.3	2.3	3.5	4.2	4.6	2.0	1.7	1.7	3.0	1.7	1.4
50%	1.2	1.3	2.3	3.0	3.3	3.9	1.8	1.5	1.6	2.7	1.5	1.3
60%	1.1	1.3	2.0	2.6	2.1	3.2	1.8	1.4	1.3	2.5	1.5	1.2
70%	1.1	1.1	1.8	2.1	1.8	2.4	1.7	1.3	1.3	2.3	1.4	1.2
80%	1.1	0.9	1.6	2.0	1.6	1.8	1.6	1.1	1.3	1.6	1.4	1.2
90%	1.0	0.9	1.2	1.7	1.2	1.4	1.4	0.9	1.2	1.3	1.2	1.1
Long Term												
Full Simulation Period[a]	1.3	2.4	4.0	4.8	5.5	5.6	3.3	2.1	1.9	2.5	1.7	1.8
Water Year Types[b]												
Wet (31%)	1.8	5.3	10.1	8.4	11.5	11.1	7.3	4.1	3.1	3.0	2.0	3.3
Above Normal (25%)	0.9	1.2	2.6	10.3	10.4	8.5	3.4	1.8	1.3	2.9	1.9	2.0
Below Normal (6%)	1.3	1.3	1.8	3.5	4.2	3.7	2.0	1.7	2.0	2.4	1.2	1.0
Dry (13%)	1.2	1.7	2.2	2.2	2.4	3.7	1.9	1.7	1.7	3.0	2.0	1.2
Critical (25%)	1.3	1.3	1.7	2.2	1.5	1.9	1.5	1.1	1.2	1.7	1.3	1.3

Alternative 5A (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.6	-1.2	-0.3	-0.4	-0.2	-0.4	-0.5	-0.8	-0.5	0.1	0.0	0.8
20%	-0.3	-1.5	-0.5	-0.2	-0.2	-0.1	-0.5	0.2	0.3	0.4	0.1	0.8
30%	-0.1	-0.3	0.1	-0.5	-0.3	-0.9	-0.3	0.1	0.2	0.3	0.0	0.3
40%	0.0	0.0	-0.1	-0.1	-1.4	-1.4	0.1	0.1	0.2	0.3	-0.3	-0.1
50%	0.0	0.1	0.2	-0.4	-0.5	-0.8	0.1	0.1	0.1	0.0	-0.3	-0.1
60%	0.1	0.1	0.2	-0.1	0.2	-1.3	0.3	0.3	0.0	-0.2	-0.1	0.0
70%	0.1	0.1	0.2	0.3	0.0	-0.4	0.3	0.4	0.2	-0.2	-0.2	0.0
80%	0.2	0.0	0.2	0.4	-0.1	-0.1	0.3	0.3	0.4	-0.5	-0.1	0.3
90%	0.3	0.3	0.3	0.5	0.3	0.3	0.4	0.4	0.4	-0.6	0.0	0.2
Long Term												
Full Simulation Period[a]	-0.1	-0.2	0.1	-0.1	-0.1	-0.5	0.1	0.0	0.0	-0.1	-0.1	0.2
Water Year Types[b]												
Wet (31%)	-0.4	-0.6	0.0	-0.3	-0.2	-0.7	0.1	-0.6	-0.7	-0.3	-0.1	0.4
Above Normal (25%)	0.1	-0.1	0.1	-0.6	-0.1	-0.6	-0.8	-0.5	-0.3	0.6	0.1	0.4
Below Normal (6%)	-0.4	0.1	0.8	-0.1	-1.4	-1.1	0.1	-0.2	0.4	-0.4	-0.9	-0.3
Dry (13%)	0.0	-0.3	0.1	0.1	-0.1	-0.7	0.1	0.4	0.3	0.3	-0.2	-0.2
Critical (25%)	0.1	0.2	0.1	0.1	0.1	0.0	0.4	0.5	0.4	-0.5	0.0	0.3

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-68-2-5. Sacramento River at Freeport, Monthly Averaged Daily Minimum Elevation

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.5	5.6	11.6	10.7	13.3	11.8	8.0	4.0	2.2	3.8	2.6	4.3
20%	2.0	3.8	3.5	9.1	12.1	9.8	3.4	2.2	1.8	3.2	2.5	3.5
30%	1.7	2.4	3.0	6.4	7.1	7.5	2.8	1.9	1.8	3.1	2.5	2.9
40%	1.7	2.0	2.6	3.6	4.4	5.2	2.1	1.7	1.8	3.0	2.4	2.0
50%	1.4	1.8	2.4	3.4	3.6	4.3	1.9	1.6	1.6	3.0	2.3	1.8
60%	1.3	1.6	2.1	2.9	2.3	3.5	1.7	1.5	1.5	2.7	2.0	1.6
70%	1.2	1.4	2.0	2.1	2.0	2.5	1.6	1.3	1.3	2.7	1.7	1.4
80%	1.2	1.2	1.6	2.0	1.7	1.8	1.5	1.1	1.2	2.6	1.4	1.3
90%	1.0	1.0	1.3	1.7	1.2	1.4	1.4	0.9	1.2	2.2	1.3	1.2
Long Term												
Full Simulation Period[a]	1.6	2.8	4.1	5.0	5.6	5.8	3.4	2.2	2.0	2.9	2.1	2.4
Water Year Types[b]												
Wet (31%)	2.1	5.8	10.2	8.5	11.6	11.1	7.2	4.5	3.3	3.4	2.4	4.3
Above Normal (25%)	1.1	1.5	2.7	10.4	10.4	8.7	4.0	2.2	1.5	3.0	2.5	2.9
Below Normal (6%)	1.8	2.2	1.9	3.6	4.4	4.2	2.1	1.8	1.8	2.7	2.0	1.8
Dry (13%)	1.5	2.2	2.3	2.3	2.6	4.0	2.1	1.6	1.7	3.1	2.3	1.7
Critical (25%)	1.5	1.5	1.7	2.3	1.6	2.0	1.5	1.1	1.2	2.3	1.4	1.2

Alternative 2D (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.3	4.3	10.4	9.6	12.2	11.0	7.0	3.0	2.1	3.5	2.3	2.7
20%	1.2	3.1	2.8	8.0	11.1	8.9	2.9	2.0	2.0	3.3	1.8	2.5
30%	1.2	1.4	2.6	5.3	5.8	6.7	2.2	1.9	1.9	2.8	1.7	1.6
40%	1.1	1.3	2.1	3.0	3.6	3.7	1.8	1.8	1.9	2.7	1.6	1.4
50%	1.1	1.2	1.9	2.7	2.8	3.3	1.7	1.8	1.6	2.5	1.5	1.3
60%	1.0	0.9	1.8	2.3	1.7	2.8	1.6	1.6	1.4	2.1	1.4	1.2
70%	1.0	0.9	1.6	1.8	1.6	2.1	1.5	1.3	1.3	1.8	1.3	1.2
80%	0.9	0.8	1.5	1.6	1.5	1.5	1.5	1.1	1.2	1.6	1.3	1.1
90%	0.8	0.8	1.1	1.5	1.2	1.2	1.4	0.9	1.2	1.4	1.2	1.1
Long Term												
Full Simulation Period[a]	1.1	2.1	3.7	4.3	5.0	5.0	3.1	2.1	1.9	2.4	1.6	1.6
Water Year Types[b]												
Wet (31%)	1.2	4.6	9.3	7.5	10.5	10.0	6.6	3.6	2.8	2.7	1.6	2.7
Above Normal (25%)	1.0	0.9	2.3	9.2	9.5	7.7	2.9	1.9	1.5	3.1	1.9	1.6
Below Normal (6%)	1.1	0.8	1.5	3.1	3.6	3.1	1.8	1.8	2.0	1.1	1.0	1.1
Dry (13%)	1.0	1.5	1.9	1.8	2.0	3.4	1.9	1.9	1.9	3.0	2.0	1.1
Critical (25%)	1.1	1.2	1.6	2.0	1.4	1.7	1.4	1.1	1.2	1.7	1.4	1.2

Alternative 2D (ELT) minus No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1.2	-1.3	-1.2	-1.1	-1.0	-0.8	-1.1	-0.9	-0.1	-0.3	-0.4	-1.6
20%	-0.8	-0.7	-0.7	-1.1	-1.0	-0.9	-0.4	-0.2	0.2	0.2	-0.7	-1.0
30%	-0.6	-1.0	-0.4	-1.0	-1.3	-0.8	-0.6	0.0	0.1	-0.3	-0.8	-1.3
40%	-0.5	-0.8	-0.5	-0.7	-0.8	-1.5	-0.3	0.1	0.1	-0.3	-0.9	-0.6
50%	-0.4	-0.7	-0.5	-0.7	-0.8	-1.0	-0.2	0.1	0.0	-0.5	-0.8	-0.6
60%	-0.2	-0.6	-0.3	-0.6	-0.5	-0.7	-0.2	0.0	-0.1	-0.7	-0.6	-0.4
70%	-0.3	-0.5	-0.4	-0.3	-0.4	-0.5	-0.1	0.1	0.1	-0.8	-0.4	-0.1
80%	-0.3	-0.4	-0.1	-0.4	-0.2	-0.3	0.0	0.0	0.0	-1.0	-0.1	-0.1
90%	-0.2	-0.3	-0.1	-0.2	-0.1	-0.2	0.0	0.0	0.0	-0.7	-0.1	-0.1
Long Term												
Full Simulation Period[a]	-0.5	-0.7	-0.5	-0.7	-0.7	-0.7	-0.3	-0.2	-0.1	-0.4	-0.4	-0.7
Water Year Types[b]												
Wet (31%)	-0.9	-1.2	-1.0	-1.0	-1.1	-1.2	-0.6	-0.9	-0.5	-0.6	-0.8	-1.6
Above Normal (25%)	-0.1	-0.6	-0.4	-1.2	-0.9	-1.0	-1.0	-0.4	-0.1	0.2	-0.6	-1.3
Below Normal (6%)	-0.6	-1.4	-0.4	-0.5	-0.8	-1.2	-0.3	0.0	0.2	-1.6	-0.9	-0.6
Dry (13%)	-0.6	-0.7	-0.4	-0.4	-0.6	-0.6	-0.2	0.3	0.2	-0.1	-0.4	-0.5
Critical (25%)	-0.4	-0.3	-0.2	-0.3	-0.2	-0.3	0.0	0.0	0.0	-0.6	0.0	0.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-68-2-6. Sacramento River at Freeport, Monthly Averaged Daily Minimum Elevation

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.5	5.6	11.6	10.7	13.3	11.8	8.0	4.0	2.2	3.8	2.6	4.3
20%	2.0	3.8	3.5	9.1	12.1	9.8	3.4	2.2	1.8	3.2	2.5	3.5
30%	1.7	2.4	3.0	6.4	7.1	7.5	2.8	1.9	1.8	3.1	2.5	2.9
40%	1.7	2.0	2.6	3.6	4.4	5.2	2.1	1.7	1.8	3.0	2.4	2.0
50%	1.4	1.8	2.4	3.4	3.6	4.3	1.9	1.6	1.6	3.0	2.3	1.8
60%	1.3	1.6	2.1	2.9	2.3	3.5	1.7	1.5	1.5	2.7	2.0	1.6
70%	1.2	1.4	2.0	2.1	2.0	2.5	1.6	1.3	1.3	2.7	1.7	1.4
80%	1.2	1.2	1.6	2.0	1.7	1.8	1.5	1.1	1.2	2.6	1.4	1.3
90%	1.0	1.0	1.3	1.7	1.2	1.4	1.4	0.9	1.2	2.2	1.3	1.2
Long Term												
Full Simulation Period[a]	1.6	2.8	4.1	5.0	5.6	5.8	3.4	2.2	2.0	2.9	2.1	2.4
Water Year Types[b]												
Wet (31%)	2.1	5.8	10.2	8.5	11.6	11.1	7.2	4.5	3.3	3.4	2.4	4.3
Above Normal (25%)	1.1	1.5	2.7	10.4	10.4	8.7	4.0	2.2	1.5	3.0	2.5	2.9
Below Normal (6%)	1.8	2.2	1.9	3.6	4.4	4.2	2.1	1.8	1.8	2.7	2.0	1.8
Dry (13%)	1.5	2.2	2.3	2.3	2.6	4.0	2.1	1.6	1.7	3.1	2.3	1.7
Critical (25%)	1.5	1.5	1.7	2.3	1.6	2.0	1.5	1.1	1.2	2.3	1.4	1.2

Alternative 4A (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.5	4.8	10.8	10.0	12.6	11.5	7.5	3.4	2.0	2.5	2.0	3.3
20%	1.2	3.2	2.9	8.2	11.4	9.1	3.3	2.1	1.8	2.2	1.9	3.1
30%	1.2	1.4	2.7	5.7	6.3	6.8	2.6	1.9	1.7	2.1	1.7	2.2
40%	1.1	1.2	2.3	3.2	3.8	4.1	2.1	1.8	1.7	2.0	1.6	1.4
50%	1.1	1.2	2.0	3.2	3.0	3.6	1.8	1.6	1.5	1.9	1.6	1.3
60%	1.0	1.1	1.8	2.6	1.9	3.0	1.6	1.5	1.4	1.8	1.5	1.3
70%	1.0	0.9	1.5	1.8	1.6	2.1	1.6	1.2	1.3	1.8	1.5	1.2
80%	0.9	0.8	1.4	1.7	1.5	1.6	1.6	1.1	1.2	1.7	1.5	1.1
90%	0.9	0.8	1.1	1.4	1.0	1.3	1.4	0.9	1.2	1.6	1.3	1.1
Long Term												
Full Simulation Period[a]	1.2	2.2	3.7	4.5	5.2	5.2	3.3	2.1	1.8	2.0	1.6	1.8
Water Year Types[b]												
Wet (31%)	1.5	5.0	9.5	7.9	10.9	10.4	6.9	4.0	3.0	2.3	1.7	3.3
Above Normal (25%)	1.0	1.0	2.4	9.6	9.7	7.9	3.6	2.1	1.3	2.4	2.0	2.2
Below Normal (6%)	1.1	0.9	1.5	3.2	3.8	3.4	2.1	1.8	1.7	1.7	1.0	1.1
Dry (13%)	1.0	1.5	1.9	1.9	2.2	3.5	2.0	1.6	1.7	2.0	1.7	1.1
Critical (25%)	1.1	1.2	1.5	2.2	1.4	1.8	1.4	1.1	1.2	1.6	1.5	1.3

Alternative 4A (ELT) minus No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1.0	-0.9	-0.9	-0.7	-0.6	-0.4	-0.5	-0.5	-0.2	-1.3	-0.7	-0.9
20%	-0.8	-0.6	-0.7	-0.9	-0.7	-0.7	-0.1	0.0	0.0	-1.0	-0.6	-0.4
30%	-0.6	-1.0	-0.3	-0.7	-0.8	-0.7	-0.2	0.0	0.0	-0.9	-0.7	-0.7
40%	-0.5	-0.8	-0.3	-0.4	-0.6	-1.1	-0.1	0.1	-0.1	-1.0	-0.8	-0.6
50%	-0.4	-0.7	-0.4	-0.2	-0.6	-0.8	-0.1	0.0	-0.1	-1.1	-0.7	-0.5
60%	-0.2	-0.5	-0.3	-0.2	-0.4	-0.5	-0.1	0.0	-0.1	-0.9	-0.4	-0.4
70%	-0.3	-0.4	-0.4	-0.3	-0.3	-0.4	-0.1	-0.1	0.0	-0.9	-0.2	-0.2
80%	-0.3	-0.4	-0.2	-0.3	-0.2	-0.2	0.0	-0.1	0.0	-0.9	0.1	-0.2
90%	-0.1	-0.2	-0.1	-0.2	-0.2	-0.1	0.0	0.0	0.0	-0.6	0.0	-0.2
Long Term												
Full Simulation Period[a]	-0.5	-0.6	-0.4	-0.4	-0.5	-0.5	-0.1	-0.2	-0.1	-0.9	-0.4	-0.5
Water Year Types[b]												
Wet (31%)	-0.7	-0.8	-0.7	-0.7	-0.6	-0.7	-0.2	-0.5	-0.4	-1.0	-0.7	-1.0
Above Normal (25%)	-0.1	-0.5	-0.3	-0.8	-0.7	-0.8	-0.4	-0.2	-0.3	-0.5	-0.5	-0.7
Below Normal (6%)	-0.6	-1.2	-0.4	-0.4	-0.6	-0.9	-0.1	0.0	-0.1	-1.0	-1.0	-0.7
Dry (13%)	-0.5	-0.6	-0.4	-0.4	-0.5	-0.5	-0.1	0.0	0.0	-1.1	-0.7	-0.6
Critical (25%)	-0.4	-0.3	-0.2	-0.1	-0.3	-0.3	0.0	0.0	0.0	-0.7	0.1	0.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-68-2-7. Sacramento River at Freeport, Monthly Averaged Daily Minimum Elevation

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.5	5.6	11.6	10.7	13.3	11.8	8.0	4.0	2.2	3.8	2.6	4.3
20%	2.0	3.8	3.5	9.1	12.1	9.8	3.4	2.2	1.8	3.2	2.5	3.5
30%	1.7	2.4	3.0	6.4	7.1	7.5	2.8	1.9	1.8	3.1	2.5	2.9
40%	1.7	2.0	2.6	3.6	4.4	5.2	2.1	1.7	1.8	3.0	2.4	2.0
50%	1.4	1.8	2.4	3.4	3.6	4.3	1.9	1.6	1.6	3.0	2.3	1.8
60%	1.3	1.6	2.1	2.9	2.3	3.5	1.7	1.5	1.5	2.7	2.0	1.6
70%	1.2	1.4	2.0	2.1	2.0	2.5	1.6	1.3	1.3	2.7	1.7	1.4
80%	1.2	1.2	1.6	2.0	1.7	1.8	1.5	1.1	1.2	2.6	1.4	1.3
90%	1.0	1.0	1.3	1.7	1.2	1.4	1.4	0.9	1.2	2.2	1.3	1.2
Long Term												
Full Simulation Period[a]	1.6	2.8	4.1	5.0	5.6	5.8	3.4	2.2	2.0	2.9	2.1	2.4
Water Year Types[b]												
Wet (31%)	2.1	5.8	10.2	8.5	11.6	11.1	7.2	4.5	3.3	3.4	2.4	4.3
Above Normal (25%)	1.1	1.5	2.7	10.4	10.4	8.7	4.0	2.2	1.5	3.0	2.5	2.9
Below Normal (6%)	1.8	2.2	1.9	3.6	4.4	4.2	2.1	1.8	1.8	2.7	2.0	1.8
Dry (13%)	1.5	2.2	2.3	2.3	2.6	4.0	2.1	1.6	1.7	3.1	2.3	1.7
Critical (25%)	1.5	1.5	1.7	2.3	1.6	2.0	1.5	1.1	1.2	2.3	1.4	1.2

Alternative 5A (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.0	5.1	11.6	10.7	13.3	12.3	8.0	3.5	2.0	3.3	2.4	3.3
20%	1.4	3.6	3.3	8.9	12.2	9.9	2.9	2.1	1.8	3.2	2.3	2.6
30%	1.3	1.6	2.9	6.1	6.7	7.1	2.3	1.9	1.7	3.1	2.1	2.0
40%	1.2	1.3	2.3	3.5	4.2	4.6	2.0	1.7	1.7	3.0	1.7	1.4
50%	1.2	1.3	2.3	3.0	3.3	3.9	1.8	1.5	1.6	2.7	1.5	1.3
60%	1.1	1.3	2.0	2.6	2.1	3.2	1.8	1.4	1.3	2.5	1.5	1.2
70%	1.1	1.1	1.8	2.1	1.8	2.4	1.7	1.3	1.3	2.3	1.4	1.2
80%	1.1	0.9	1.6	2.0	1.6	1.8	1.6	1.1	1.3	1.6	1.4	1.2
90%	1.0	0.9	1.2	1.7	1.2	1.4	1.4	0.9	1.2	1.3	1.2	1.1
Long Term												
Full Simulation Period[a]	1.3	2.4	4.0	4.8	5.5	5.6	3.3	2.1	1.9	2.5	1.7	1.8
Water Year Types[b]												
Wet (31%)	1.8	5.3	10.1	8.4	11.5	11.1	7.3	4.1	3.1	3.0	2.0	3.3
Above Normal (25%)	0.9	1.2	2.6	10.3	10.4	8.5	3.4	1.8	1.3	2.9	1.9	2.0
Below Normal (6%)	1.3	1.3	1.8	3.5	4.2	3.7	2.0	1.7	2.0	2.4	1.2	1.0
Dry (13%)	1.2	1.7	2.2	2.2	2.4	3.7	1.9	1.7	1.7	3.0	2.0	1.2
Critical (25%)	1.3	1.3	1.7	2.2	1.5	1.9	1.5	1.1	1.2	1.7	1.3	1.3

Alternative 5A (ELT) minus No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.5	-0.5	-0.1	0.0	0.0	0.5	0.0	-0.4	-0.2	-0.4	-0.2	-0.9
20%	-0.7	-0.3	-0.3	-0.2	0.1	0.1	-0.5	0.0	0.0	0.0	-0.2	-0.9
30%	-0.5	-0.8	-0.1	-0.2	-0.4	-0.4	-0.5	0.0	0.0	0.0	-0.4	-0.9
40%	-0.4	-0.8	-0.3	-0.2	-0.2	-0.6	-0.1	0.0	-0.1	0.0	-0.8	-0.5
50%	-0.3	-0.6	-0.1	-0.4	-0.3	-0.4	-0.1	-0.2	0.0	-0.3	-0.8	-0.6
60%	-0.1	-0.3	-0.1	-0.3	-0.2	-0.3	0.0	-0.1	-0.2	-0.2	-0.5	-0.4
70%	-0.1	-0.2	-0.1	0.0	-0.2	-0.2	0.0	0.1	0.0	-0.3	-0.3	-0.1
80%	-0.2	-0.3	0.0	0.0	-0.1	-0.1	0.1	0.0	0.1	-1.0	0.0	-0.1
90%	0.0	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.8	-0.1	-0.1
Long Term												
Full Simulation Period[a]	-0.3	-0.4	-0.1	-0.1	-0.1	-0.2	-0.1	-0.1	-0.1	-0.3	-0.3	-0.5
Water Year Types[b]												
Wet (31%)	-0.3	-0.5	-0.1	-0.2	0.0	-0.1	0.1	-0.3	-0.2	-0.4	-0.4	-1.1
Above Normal (25%)	-0.1	-0.2	-0.1	-0.1	-0.1	-0.1	-0.6	-0.4	-0.2	0.0	-0.6	-0.9
Below Normal (6%)	-0.5	-0.9	-0.1	-0.2	-0.2	-0.5	-0.1	-0.1	0.1	-0.3	-0.8	-0.8
Dry (13%)	-0.4	-0.5	-0.1	-0.1	-0.2	-0.3	-0.1	0.1	0.0	-0.1	-0.3	-0.5
Critical (25%)	-0.2	-0.2	0.0	-0.2	-0.1	-0.1	0.1	0.0	0.0	-0.6	-0.1	0.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

C.69. Sacramento River Flow downstream of North delta Diversion

Table C-69-1-1. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.9	6.2	9.6	9.1	10.8	10.1	7.2	4.8	4.1	4.5	4.2	4.2
20%	3.4	5.3	4.5	7.9	10.0	8.4	4.2	3.7	3.7	4.3	4.0	3.7
30%	3.4	3.6	4.2	6.2	6.5	6.9	3.8	3.6	3.7	4.2	3.9	3.6
40%	3.3	3.5	4.0	4.7	5.5	5.4	3.5	3.6	3.6	4.2	3.8	3.6
50%	3.3	3.4	3.8	4.6	4.5	5.0	3.4	3.5	3.6	4.2	3.8	3.5
60%	3.3	3.4	3.7	4.1	3.7	4.7	3.4	3.3	3.6	4.1	3.8	3.5
70%	3.2	3.3	3.7	3.7	3.6	3.8	3.3	3.2	3.5	4.1	3.7	3.4
80%	3.1	3.1	3.5	3.5	3.5	3.4	3.1	3.2	3.4	4.0	3.7	3.4
90%	3.1	3.0	3.2	3.3	3.1	3.1	3.0	2.9	3.3	3.9	3.6	3.3
Long Term												
Full Simulation Period[a]	3.4	4.1	5.0	5.5	5.9	5.9	4.3	3.8	3.9	4.2	3.9	3.6
Water Year Types[b]												
Wet (31%)	3.8	6.1	8.7	7.6	9.6	9.5	6.7	5.3	5.0	4.6	4.1	4.3
Above Normal (25%)	3.1	3.3	4.0	9.1	8.8	7.6	4.5	3.8	3.6	4.0	3.8	3.5
Below Normal (6%)	3.4	3.3	3.2	4.7	5.7	4.9	3.4	3.5	3.5	4.0	3.7	3.4
Dry (13%)	3.3	3.7	3.8	3.9	3.9	4.8	3.5	3.4	3.7	4.2	4.0	3.5
Critical (25%)	3.3	3.4	3.6	3.8	3.4	3.4	3.1	3.0	3.4	4.0	3.6	3.3

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.2	6.1	9.6	9.0	10.8	9.6	7.1	4.9	4.4	5.1	4.6	5.2
20%	3.9	4.9	4.7	7.8	9.8	8.3	4.5	4.2	4.3	4.9	4.5	4.7
30%	3.9	4.1	4.6	6.4	6.7	6.8	4.2	4.1	4.2	4.7	4.4	4.3
40%	3.8	4.0	4.5	4.9	5.3	5.2	3.9	3.9	4.1	4.7	4.4	4.1
50%	3.7	4.0	4.3	4.8	4.7	5.0	3.8	3.9	4.0	4.7	4.3	4.0
60%	3.7	3.9	4.2	4.5	4.1	4.5	3.8	3.8	3.9	4.6	4.3	3.9
70%	3.6	3.8	4.0	4.2	4.0	4.1	3.7	3.7	3.9	4.6	4.1	3.9
80%	3.6	3.7	3.9	4.1	3.9	3.7	3.7	3.7	3.9	4.4	4.1	3.9
90%	3.5	3.5	3.8	3.8	3.6	3.6	3.5	3.5	3.8	4.3	3.9	3.8
Long Term												
Full Simulation Period[a]	3.8	4.5	5.3	5.7	6.1	5.9	4.6	4.2	4.2	4.6	4.3	4.3
Water Year Types[b]												
Wet (31%)	4.1	6.3	8.9	7.7	9.6	9.2	6.9	5.4	4.9	5.0	4.6	5.2
Above Normal (25%)	3.5	3.7	4.4	8.9	8.9	7.5	4.7	4.1	3.9	4.5	4.4	4.3
Below Normal (6%)	3.8	4.0	3.9	4.9	5.3	4.8	3.8	3.9	4.0	4.3	4.1	3.9
Dry (13%)	3.8	4.1	4.2	4.3	4.2	4.9	3.9	3.9	4.2	4.7	4.4	4.0
Critical (25%)	3.7	3.8	4.0	4.2	3.8	3.8	3.6	3.6	3.9	4.4	4.0	3.8

No Action Alternative (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.3	-0.1	0.0	-0.1	0.0	-0.5	-0.1	0.1	0.3	0.6	0.5	1.0
20%	0.5	-0.3	0.2	0.0	-0.2	-0.1	0.3	0.5	0.5	0.6	0.4	1.0
30%	0.5	0.5	0.4	0.2	0.1	-0.1	0.4	0.5	0.5	0.5	0.5	0.7
40%	0.5	0.5	0.5	0.2	-0.3	-0.3	0.4	0.3	0.4	0.5	0.5	0.6
50%	0.4	0.5	0.4	0.2	0.2	0.0	0.4	0.4	0.4	0.5	0.5	0.5
60%	0.4	0.5	0.5	0.4	0.4	-0.2	0.4	0.6	0.4	0.5	0.5	0.4
70%	0.4	0.5	0.4	0.5	0.4	0.2	0.4	0.4	0.5	0.5	0.4	0.5
80%	0.5	0.6	0.4	0.6	0.4	0.4	0.5	0.5	0.4	0.5	0.4	0.5
90%	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.3	0.5
Long Term												
Full Simulation Period[a]	0.4	0.4	0.4	0.2	0.2	0.0	0.3	0.4	0.3	0.4	0.4	0.6
Water Year Types[b]												
Wet (31%)	0.3	0.2	0.2	0.1	0.0	-0.2	0.1	0.1	0.0	0.4	0.5	0.9
Above Normal (25%)	0.4	0.4	0.4	-0.2	0.1	-0.2	0.1	0.3	0.3	0.6	0.6	0.8
Below Normal (6%)	0.4	0.8	0.7	0.3	-0.5	-0.1	0.4	0.3	0.5	0.4	0.3	0.5
Dry (13%)	0.5	0.4	0.4	0.4	0.3	0.1	0.4	0.5	0.5	0.5	0.4	0.5
Critical (25%)	0.5	0.5	0.4	0.4	0.4	0.3	0.5	0.6	0.5	0.4	0.4	0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

Table C-69-1-2. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.9	6.2	9.6	9.1	10.8	10.1	7.2	4.8	4.1	4.5	4.2	4.2
20%	3.4	5.3	4.5	7.9	10.0	8.4	4.2	3.7	3.7	4.3	4.0	3.7
30%	3.4	3.6	4.2	6.2	6.5	6.9	3.8	3.6	3.7	4.2	3.9	3.6
40%	3.3	3.5	4.0	4.7	5.5	5.4	3.5	3.6	3.6	4.2	3.8	3.6
50%	3.3	3.4	3.8	4.6	4.5	5.0	3.4	3.5	3.6	4.2	3.8	3.5
60%	3.3	3.4	3.7	4.1	3.7	4.7	3.4	3.3	3.6	4.1	3.8	3.5
70%	3.2	3.3	3.7	3.7	3.6	3.8	3.3	3.2	3.5	4.1	3.7	3.4
80%	3.1	3.1	3.5	3.5	3.5	3.4	3.1	3.2	3.4	4.0	3.7	3.4
90%	3.1	3.0	3.2	3.3	3.1	3.1	3.0	2.9	3.3	3.9	3.6	3.3
Long Term												
Full Simulation Period[a]	3.4	4.1	5.0	5.5	5.9	5.9	4.3	3.8	3.9	4.2	3.9	3.6
Water Year Types[b]												
Wet (31%)	3.8	6.1	8.7	7.6	9.6	9.5	6.7	5.3	5.0	4.6	4.1	4.3
Above Normal (25%)	3.1	3.3	4.0	9.1	8.8	7.6	4.5	3.8	3.6	4.0	3.8	3.5
Below Normal (6%)	3.4	3.3	3.2	4.7	5.7	4.9	3.4	3.5	3.5	4.0	3.7	3.4
Dry (13%)	3.3	3.7	3.8	3.9	3.9	4.8	3.5	3.4	3.7	4.2	4.0	3.5
Critical (25%)	3.3	3.4	3.6	3.8	3.4	3.4	3.1	3.0	3.4	4.0	3.6	3.3

Alternative 2D (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.0	5.7	9.0	8.3	10.3	8.9	6.8	4.6	4.4	4.9	4.4	4.8
20%	3.8	4.9	4.6	7.6	9.4	8.1	4.2	4.2	4.3	4.8	4.4	4.5
30%	3.8	4.0	4.6	6.0	6.1	6.5	4.0	4.0	4.2	4.6	4.2	4.0
40%	3.7	3.8	4.4	4.7	4.8	4.6	3.8	3.9	4.1	4.5	4.2	3.9
50%	3.7	3.8	4.2	4.6	4.5	4.4	3.7	3.8	4.0	4.5	4.2	3.9
60%	3.7	3.7	4.1	4.3	4.0	4.2	3.7	3.8	3.9	4.4	4.0	3.8
70%	3.6	3.7	4.0	4.2	3.9	3.9	3.6	3.7	3.9	4.3	4.0	3.8
80%	3.6	3.5	3.9	3.9	3.8	3.7	3.6	3.6	3.8	4.1	4.0	3.7
90%	3.5	3.5	3.7	3.8	3.6	3.5	3.4	3.4	3.8	4.1	3.9	3.6
Long Term												
Full Simulation Period[a]	3.8	4.3	5.2	5.4	5.9	5.6	4.5	4.1	4.2	4.5	4.2	4.1
Water Year Types[b]												
Wet (31%)	4.0	5.9	8.5	7.3	9.1	8.6	6.8	5.0	4.8	4.7	4.4	4.8
Above Normal (25%)	3.5	3.6	4.4	8.0	8.8	7.2	4.3	4.0	3.9	4.5	4.2	4.0
Below Normal (6%)	3.7	3.8	3.9	4.9	4.8	4.3	3.7	3.8	4.0	4.1	3.9	3.7
Dry (13%)	3.7	4.0	4.2	4.1	4.1	4.7	3.8	4.0	4.2	4.7	4.2	3.8
Critical (25%)	3.7	3.7	4.0	4.1	3.8	3.7	3.5	3.5	3.8	4.2	3.9	3.8

Alternative 2D (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.1	-0.5	-0.6	-0.8	-0.5	-1.1	-0.4	-0.2	0.3	0.4	0.3	0.7
20%	0.4	-0.3	0.2	-0.3	-0.5	-0.3	0.0	0.5	0.5	0.5	0.3	0.8
30%	0.4	0.4	0.3	-0.2	-0.4	-0.4	0.2	0.4	0.5	0.4	0.4	0.4
40%	0.4	0.3	0.4	0.0	-0.7	-0.8	0.3	0.3	0.4	0.3	0.4	0.4
50%	0.4	0.4	0.4	0.0	0.0	-0.6	0.3	0.3	0.4	0.3	0.3	0.4
60%	0.4	0.4	0.4	0.2	0.3	-0.5	0.3	0.5	0.4	0.2	0.3	0.4
70%	0.5	0.4	0.3	0.4	0.3	0.1	0.3	0.4	0.4	0.2	0.3	0.4
80%	0.5	0.4	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.2	0.3	0.4
90%	0.5	0.4	0.5	0.5	0.4	0.4	0.4	0.5	0.5	0.2	0.3	0.4
Long Term												
Full Simulation Period[a]	0.4	0.2	0.2	0.0	0.0	-0.3	0.2	0.3	0.3	0.3	0.3	0.4
Water Year Types[b]												
Wet (31%)	0.2	-0.1	-0.2	-0.3	-0.5	-0.9	0.0	-0.3	-0.2	0.2	0.3	0.5
Above Normal (25%)	0.4	0.3	0.4	-1.1	0.0	-0.4	-0.3	0.2	0.3	0.5	0.4	0.5
Below Normal (6%)	0.3	0.5	0.6	0.2	-0.9	-0.6	0.3	0.2	0.5	0.1	0.2	0.3
Dry (13%)	0.4	0.3	0.3	0.3	0.2	-0.2	0.3	0.5	0.5	0.4	0.2	0.3
Critical (25%)	0.4	0.4	0.4	0.4	0.4	0.2	0.4	0.5	0.4	0.2	0.3	0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-69-1-3. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.9	6.2	9.6	9.1	10.8	10.1	7.2	4.8	4.1	4.5	4.2	4.2
20%	3.4	5.3	4.5	7.9	10.0	8.4	4.2	3.7	3.7	4.3	4.0	3.7
30%	3.4	3.6	4.2	6.2	6.5	6.9	3.8	3.6	3.7	4.2	3.9	3.6
40%	3.3	3.5	4.0	4.7	5.5	5.4	3.5	3.6	3.6	4.2	3.8	3.6
50%	3.3	3.4	3.8	4.6	4.5	5.0	3.4	3.5	3.6	4.2	3.8	3.5
60%	3.3	3.4	3.7	4.1	3.7	4.7	3.4	3.3	3.6	4.1	3.8	3.5
70%	3.2	3.3	3.7	3.7	3.6	3.8	3.3	3.2	3.5	4.1	3.7	3.4
80%	3.1	3.1	3.5	3.5	3.5	3.4	3.1	3.2	3.4	4.0	3.7	3.4
90%	3.1	3.0	3.2	3.3	3.1	3.1	3.0	2.9	3.3	3.9	3.6	3.3
Long Term												
Full Simulation Period[a]	3.4	4.1	5.0	5.5	5.9	5.9	4.3	3.8	3.9	4.2	3.9	3.6
Water Year Types[b]												
Wet (31%)	3.8	6.1	8.7	7.6	9.6	9.5	6.7	5.3	5.0	4.6	4.1	4.3
Above Normal (25%)	3.1	3.3	4.0	9.1	8.8	7.6	4.5	3.8	3.6	4.0	3.8	3.5
Below Normal (6%)	3.4	3.3	3.2	4.7	5.7	4.9	3.4	3.5	3.5	4.0	3.7	3.4
Dry (13%)	3.3	3.7	3.8	3.9	3.9	4.8	3.5	3.4	3.7	4.2	4.0	3.5
Critical (25%)	3.3	3.4	3.6	3.8	3.4	3.4	3.1	3.0	3.4	4.0	3.6	3.3

Alternative 4A (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.1	5.9	9.2	8.4	10.5	9.2	6.8	4.7	4.4	4.8	4.5	4.9
20%	3.8	4.9	4.7	7.3	9.2	7.8	4.4	4.1	4.4	4.6	4.4	4.7
30%	3.8	4.0	4.7	6.1	6.2	6.4	4.1	4.0	4.2	4.6	4.4	4.1
40%	3.8	3.9	4.4	4.8	4.9	4.7	3.9	4.0	4.1	4.5	4.3	4.0
50%	3.8	3.8	4.3	4.7	4.4	4.5	3.8	3.9	4.1	4.5	4.3	4.0
60%	3.7	3.8	4.2	4.6	4.1	4.3	3.7	3.8	4.0	4.4	4.2	3.9
70%	3.7	3.7	4.0	4.2	4.0	3.9	3.7	3.7	3.9	4.4	4.1	3.9
80%	3.7	3.5	3.8	4.0	3.9	3.7	3.6	3.7	3.9	4.2	4.0	3.7
90%	3.6	3.5	3.7	3.9	3.6	3.6	3.5	3.4	3.9	4.1	3.9	3.7
Long Term												
Full Simulation Period[a]	3.8	4.4	5.2	5.5	5.9	5.7	4.6	4.1	4.2	4.5	4.2	4.1
Water Year Types[b]												
Wet (31%)	4.1	6.1	8.5	7.2	9.2	8.7	6.8	5.0	4.8	4.8	4.5	4.9
Above Normal (25%)	3.5	3.6	4.4	8.3	8.6	7.0	4.5	4.0	3.9	4.4	4.3	4.1
Below Normal (6%)	3.7	3.8	3.9	4.9	4.9	4.4	3.8	3.8	4.1	4.2	4.0	3.7
Dry (13%)	3.8	4.0	4.2	4.2	4.1	4.7	3.9	3.9	4.2	4.5	4.2	3.9
Critical (25%)	3.8	3.8	4.0	4.2	3.8	3.7	3.6	3.6	3.9	4.2	4.0	3.8

Alternative 4A (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.2	-0.4	-0.4	-0.7	-0.3	-0.9	-0.4	0.0	0.3	0.3	0.3	0.7
20%	0.4	-0.4	0.2	-0.5	-0.8	-0.6	0.2	0.5	0.7	0.3	0.4	1.0
30%	0.4	0.4	0.4	-0.2	-0.3	-0.5	0.3	0.4	0.5	0.3	0.5	0.5
40%	0.5	0.3	0.5	0.0	-0.6	-0.7	0.4	0.4	0.5	0.3	0.5	0.4
50%	0.5	0.4	0.4	0.1	0.0	-0.5	0.4	0.4	0.5	0.3	0.4	0.4
60%	0.5	0.5	0.4	0.5	0.4	-0.5	0.3	0.6	0.4	0.3	0.4	0.5
70%	0.5	0.5	0.4	0.5	0.4	0.1	0.4	0.4	0.5	0.3	0.4	0.5
80%	0.6	0.5	0.3	0.5	0.4	0.3	0.5	0.5	0.5	0.2	0.3	0.4
90%	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.2	0.4	0.5
Long Term												
Full Simulation Period[a]	0.4	0.3	0.3	0.0	0.0	-0.3	0.3	0.3	0.3	0.3	0.4	0.5
Water Year Types[b]												
Wet (31%)	0.3	0.0	-0.1	-0.4	-0.4	-0.7	0.1	-0.2	-0.2	0.2	0.4	0.6
Above Normal (25%)	0.5	0.4	0.4	-0.8	-0.2	-0.6	-0.1	0.2	0.3	0.4	0.6	0.6
Below Normal (6%)	0.3	0.5	0.7	0.3	-0.8	-0.5	0.4	0.3	0.6	0.2	0.3	0.3
Dry (13%)	0.5	0.3	0.4	0.3	0.2	-0.2	0.4	0.5	0.5	0.3	0.2	0.3
Critical (25%)	0.5	0.4	0.4	0.5	0.4	0.3	0.4	0.6	0.5	0.2	0.4	0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-69-1-4. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.9	6.2	9.6	9.1	10.8	10.1	7.2	4.8	4.1	4.5	4.2	4.2
20%	3.4	5.3	4.5	7.9	10.0	8.4	4.2	3.7	3.7	4.3	4.0	3.7
30%	3.4	3.6	4.2	6.2	6.5	6.9	3.8	3.6	3.7	4.2	3.9	3.6
40%	3.3	3.5	4.0	4.7	5.5	5.4	3.5	3.6	3.6	4.2	3.8	3.6
50%	3.3	3.4	3.8	4.6	4.5	5.0	3.4	3.5	3.6	4.2	3.8	3.5
60%	3.3	3.4	3.7	4.1	3.7	4.7	3.4	3.3	3.6	4.1	3.8	3.5
70%	3.2	3.3	3.7	3.7	3.6	3.8	3.3	3.2	3.5	4.1	3.7	3.4
80%	3.1	3.1	3.5	3.5	3.5	3.4	3.1	3.2	3.4	4.0	3.7	3.4
90%	3.1	3.0	3.2	3.3	3.1	3.1	3.0	2.9	3.3	3.9	3.6	3.3
Long Term												
Full Simulation Period[a]	3.4	4.1	5.0	5.5	5.9	5.9	4.3	3.8	3.9	4.2	3.9	3.6
Water Year Types[b]												
Wet (31%)	3.8	6.1	8.7	7.6	9.6	9.5	6.7	5.3	5.0	4.6	4.1	4.3
Above Normal (25%)	3.1	3.3	4.0	9.1	8.8	7.6	4.5	3.8	3.6	4.0	3.8	3.5
Below Normal (6%)	3.4	3.3	3.2	4.7	5.7	4.9	3.4	3.5	3.5	4.0	3.7	3.4
Dry (13%)	3.3	3.7	3.8	3.9	3.9	4.8	3.5	3.4	3.7	4.2	4.0	3.5
Critical (25%)	3.3	3.4	3.6	3.8	3.4	3.4	3.1	3.0	3.4	4.0	3.6	3.3

Alternative 5A (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.0	5.9	9.6	8.9	10.8	9.8	7.1	4.8	4.3	4.9	4.5	4.8
20%	3.8	4.8	4.6	7.8	9.8	8.4	4.3	4.1	4.3	4.8	4.3	4.4
30%	3.7	3.9	4.6	6.3	6.5	6.5	4.1	4.0	4.1	4.7	4.3	4.0
40%	3.7	3.8	4.4	4.7	5.1	4.9	3.8	3.9	4.0	4.7	4.3	3.9
50%	3.7	3.8	4.2	4.6	4.5	4.7	3.8	3.8	4.0	4.5	4.2	3.9
60%	3.6	3.8	4.1	4.3	4.0	4.3	3.7	3.8	3.9	4.5	4.1	3.8
70%	3.6	3.7	4.0	4.2	3.9	3.9	3.7	3.7	3.9	4.4	4.0	3.8
80%	3.5	3.5	3.9	4.1	3.9	3.7	3.6	3.6	3.8	4.3	3.9	3.7
90%	3.5	3.5	3.7	3.8	3.6	3.5	3.4	3.4	3.8	4.0	3.8	3.6
Long Term												
Full Simulation Period[a]	3.7	4.3	5.3	5.6	6.0	5.8	4.6	4.1	4.2	4.5	4.2	4.1
Water Year Types[b]												
Wet (31%)	4.0	6.1	8.8	7.5	9.5	9.1	7.0	5.2	4.9	4.8	4.5	4.8
Above Normal (25%)	3.4	3.6	4.4	8.8	8.9	7.4	4.4	4.0	3.9	4.5	4.2	4.0
Below Normal (6%)	3.7	3.8	3.9	4.9	5.1	4.6	3.7	3.8	4.0	4.3	3.8	3.7
Dry (13%)	3.7	3.9	4.2	4.2	4.1	4.7	3.8	3.9	4.1	4.7	4.3	3.8
Critical (25%)	3.7	3.7	4.0	4.1	3.7	3.7	3.5	3.5	3.8	4.2	3.9	3.8

Alternative 5A (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.1	-0.4	0.0	-0.2	0.0	-0.3	-0.1	0.0	0.2	0.4	0.3	0.6
20%	0.4	-0.4	0.1	0.0	-0.1	0.0	0.1	0.5	0.5	0.5	0.3	0.7
30%	0.3	0.3	0.3	0.0	-0.1	-0.4	0.2	0.4	0.4	0.5	0.4	0.4
40%	0.4	0.3	0.4	0.0	-0.4	-0.5	0.4	0.3	0.4	0.4	0.4	0.4
50%	0.4	0.4	0.3	0.1	0.0	-0.3	0.3	0.3	0.4	0.4	0.4	0.4
60%	0.4	0.4	0.4	0.2	0.3	-0.4	0.3	0.5	0.3	0.3	0.3	0.4
70%	0.4	0.5	0.4	0.4	0.3	0.1	0.4	0.4	0.4	0.3	0.3	0.4
80%	0.4	0.4	0.4	0.6	0.4	0.3	0.5	0.4	0.4	0.3	0.2	0.4
90%	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.1	0.2	0.4
Long Term												
Full Simulation Period[a]	0.3	0.2	0.3	0.2	0.1	-0.1	0.3	0.3	0.3	0.3	0.3	0.4
Water Year Types[b]												
Wet (31%)	0.2	0.0	0.2	0.0	-0.1	-0.4	0.2	-0.1	-0.1	0.2	0.4	0.5
Above Normal (25%)	0.4	0.3	0.4	-0.3	0.1	-0.2	-0.1	0.2	0.3	0.5	0.4	0.5
Below Normal (6%)	0.3	0.5	0.7	0.2	-0.6	-0.3	0.3	0.2	0.5	0.3	0.1	0.3
Dry (13%)	0.4	0.2	0.4	0.3	0.3	-0.1	0.3	0.5	0.4	0.5	0.3	0.3
Critical (25%)	0.4	0.4	0.4	0.3	0.4	0.3	0.4	0.5	0.5	0.2	0.3	0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-69-1-5. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Maximum Elevation

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.2	6.1	9.6	9.0	10.8	9.6	7.1	4.9	4.4	5.1	4.6	5.2
20%	3.9	4.9	4.7	7.8	9.8	8.3	4.5	4.2	4.3	4.9	4.5	4.7
30%	3.9	4.1	4.6	6.4	6.7	6.8	4.2	4.1	4.2	4.7	4.4	4.3
40%	3.8	4.0	4.5	4.9	5.3	5.2	3.9	3.9	4.1	4.7	4.4	4.1
50%	3.7	4.0	4.3	4.8	4.7	5.0	3.8	3.9	4.0	4.7	4.3	4.0
60%	3.7	3.9	4.2	4.5	4.1	4.5	3.8	3.8	3.9	4.6	4.3	3.9
70%	3.6	3.8	4.0	4.2	4.0	4.1	3.7	3.7	3.9	4.6	4.1	3.9
80%	3.6	3.7	3.9	4.1	3.9	3.7	3.7	3.7	3.9	4.4	4.1	3.9
90%	3.5	3.5	3.8	3.8	3.6	3.6	3.5	3.5	3.8	4.3	3.9	3.8
Long Term												
Full Simulation Period[a]	3.8	4.5	5.3	5.7	6.1	5.9	4.6	4.2	4.2	4.6	4.3	4.3
Water Year Types[b]												
Wet (31%)	4.1	6.3	8.9	7.7	9.6	9.2	6.9	5.4	4.9	5.0	4.6	5.2
Above Normal (25%)	3.5	3.7	4.4	8.9	8.9	7.5	4.7	4.1	3.9	4.5	4.4	4.3
Below Normal (6%)	3.8	4.0	3.9	4.9	5.3	4.8	3.8	3.9	4.0	4.3	4.1	3.9
Dry (13%)	3.8	4.1	4.2	4.3	4.2	4.9	3.9	3.9	4.2	4.7	4.4	4.0
Critical (25%)	3.7	3.8	4.0	4.2	3.8	3.8	3.6	3.6	3.9	4.4	4.0	3.8

Alternative 2D (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.0	5.7	9.0	8.3	10.3	8.9	6.8	4.6	4.4	4.9	4.4	4.8
20%	3.8	4.9	4.6	7.6	9.4	8.1	4.2	4.2	4.3	4.8	4.4	4.5
30%	3.8	4.0	4.6	6.0	6.1	6.5	4.0	4.0	4.2	4.6	4.2	4.0
40%	3.7	3.8	4.4	4.7	4.8	4.6	3.8	3.9	4.1	4.5	4.2	3.9
50%	3.7	3.8	4.2	4.6	4.5	4.4	3.7	3.8	4.0	4.5	4.2	3.9
60%	3.7	3.7	4.1	4.3	4.0	4.2	3.7	3.8	3.9	4.4	4.0	3.8
70%	3.6	3.7	4.0	4.2	3.9	3.9	3.6	3.7	3.9	4.3	4.0	3.8
80%	3.6	3.5	3.9	3.9	3.8	3.7	3.6	3.6	3.8	4.1	4.0	3.7
90%	3.5	3.5	3.7	3.8	3.6	3.5	3.4	3.4	3.8	4.1	3.9	3.6
Long Term												
Full Simulation Period[a]	3.8	4.3	5.2	5.4	5.9	5.6	4.5	4.1	4.2	4.5	4.2	4.1
Water Year Types[b]												
Wet (31%)	4.0	5.9	8.5	7.3	9.1	8.6	6.8	5.0	4.8	4.7	4.4	4.8
Above Normal (25%)	3.5	3.6	4.4	8.0	8.8	7.2	4.3	4.0	3.9	4.5	4.2	4.0
Below Normal (6%)	3.7	3.8	3.9	4.9	4.8	4.3	3.7	3.8	4.0	4.1	3.9	3.7
Dry (13%)	3.7	4.0	4.2	4.1	4.1	4.7	3.8	4.0	4.2	4.7	4.2	3.8
Critical (25%)	3.7	3.7	4.0	4.1	3.8	3.7	3.5	3.5	3.8	4.2	3.9	3.8

Alternative 2D (ELT) minus No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.2	-0.4	-0.6	-0.6	-0.5	-0.7	-0.3	-0.3	0.0	-0.1	-0.2	-0.4
20%	-0.1	0.0	-0.1	-0.3	-0.4	-0.2	-0.3	0.0	0.0	-0.1	-0.1	-0.2
30%	-0.1	-0.2	0.0	-0.4	-0.5	-0.3	-0.2	-0.1	0.1	-0.1	-0.2	-0.2
40%	-0.1	-0.2	-0.1	-0.2	-0.4	-0.5	-0.1	0.0	0.0	-0.1	-0.2	-0.2
50%	0.0	-0.2	-0.1	-0.2	-0.2	-0.6	-0.1	-0.1	0.0	-0.2	-0.2	-0.1
60%	0.0	-0.1	-0.1	-0.1	-0.1	-0.3	-0.1	-0.1	0.0	-0.3	-0.2	-0.1
70%	0.0	-0.1	-0.1	0.0	0.0	-0.2	-0.1	0.0	-0.1	-0.3	-0.1	-0.1
80%	0.0	-0.2	-0.1	-0.2	-0.1	-0.1	-0.1	-0.1	0.0	-0.3	-0.1	-0.1
90%	0.0	-0.1	-0.1	0.0	-0.1	0.0	-0.1	-0.1	0.0	-0.2	-0.1	-0.1
Long Term												
Full Simulation Period[a]	-0.1	-0.2	-0.1	-0.3	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.1	-0.2
Water Year Types[b]												
Wet (31%)	-0.1	-0.3	-0.4	-0.4	-0.5	-0.6	-0.1	-0.4	-0.2	-0.2	-0.2	-0.4
Above Normal (25%)	0.0	-0.1	-0.1	-0.9	-0.1	-0.3	-0.4	-0.1	0.0	0.0	-0.2	-0.2
Below Normal (6%)	-0.1	-0.2	-0.1	-0.1	-0.4	-0.5	-0.1	-0.1	0.0	-0.3	-0.1	-0.2
Dry (13%)	-0.1	-0.1	-0.1	-0.1	-0.1	-0.2	-0.1	0.1	0.0	-0.1	-0.2	-0.2
Critical (25%)	0.0	-0.1	0.0	-0.1	0.0	-0.1	-0.1	0.0	-0.1	-0.2	-0.1	0.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-69-1-6. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Maximum Elevation

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.2	6.1	9.6	9.0	10.8	9.6	7.1	4.9	4.4	5.1	4.6	5.2
20%	3.9	4.9	4.7	7.8	9.8	8.3	4.5	4.2	4.3	4.9	4.5	4.7
30%	3.9	4.1	4.6	6.4	6.7	6.8	4.2	4.1	4.2	4.7	4.4	4.3
40%	3.8	4.0	4.5	4.9	5.3	5.2	3.9	3.9	4.1	4.7	4.4	4.1
50%	3.7	4.0	4.3	4.8	4.7	5.0	3.8	3.9	4.0	4.7	4.3	4.0
60%	3.7	3.9	4.2	4.5	4.1	4.5	3.8	3.8	3.9	4.6	4.3	3.9
70%	3.6	3.8	4.0	4.2	4.0	4.1	3.7	3.7	3.9	4.6	4.1	3.9
80%	3.6	3.7	3.9	4.1	3.9	3.7	3.7	3.7	3.9	4.4	4.1	3.9
90%	3.5	3.5	3.8	3.8	3.6	3.6	3.5	3.5	3.8	4.3	3.9	3.8
Long Term												
Full Simulation Period[a]	3.8	4.5	5.3	5.7	6.1	5.9	4.6	4.2	4.2	4.6	4.3	4.3
Water Year Types[b]												
Wet (31%)	4.1	6.3	8.9	7.7	9.6	9.2	6.9	5.4	4.9	5.0	4.6	5.2
Above Normal (25%)	3.5	3.7	4.4	8.9	8.9	7.5	4.7	4.1	3.9	4.5	4.4	4.3
Below Normal (6%)	3.8	4.0	3.9	4.9	5.3	4.8	3.8	3.9	4.0	4.3	4.1	3.9
Dry (13%)	3.8	4.1	4.2	4.3	4.2	4.9	3.9	3.9	4.2	4.7	4.4	4.0
Critical (25%)	3.7	3.8	4.0	4.2	3.8	3.8	3.6	3.6	3.9	4.4	4.0	3.8

Alternative 4A (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.1	5.9	9.2	8.4	10.5	9.2	6.8	4.7	4.4	4.8	4.5	4.9
20%	3.8	4.9	4.7	7.3	9.2	7.8	4.4	4.1	4.4	4.6	4.4	4.7
30%	3.8	4.0	4.7	6.1	6.2	6.4	4.1	4.0	4.2	4.6	4.4	4.1
40%	3.8	3.9	4.4	4.8	4.9	4.7	3.9	4.0	4.1	4.5	4.3	4.0
50%	3.8	3.8	4.3	4.7	4.4	4.5	3.8	3.9	4.1	4.5	4.3	4.0
60%	3.7	3.8	4.2	4.6	4.1	4.3	3.7	3.8	4.0	4.4	4.2	3.9
70%	3.7	3.7	4.0	4.2	4.0	3.9	3.7	3.7	3.9	4.4	4.1	3.9
80%	3.7	3.5	3.8	4.0	3.9	3.7	3.6	3.7	3.9	4.2	4.0	3.7
90%	3.6	3.5	3.7	3.9	3.6	3.6	3.5	3.4	3.9	4.1	3.9	3.7
Long Term												
Full Simulation Period[a]	3.8	4.4	5.2	5.5	5.9	5.7	4.6	4.1	4.2	4.5	4.2	4.1
Water Year Types[b]												
Wet (31%)	4.1	6.1	8.5	7.2	9.2	8.7	6.8	5.0	4.8	4.8	4.5	4.9
Above Normal (25%)	3.5	3.6	4.4	8.3	8.6	7.0	4.5	4.0	3.9	4.4	4.3	4.1
Below Normal (6%)	3.7	3.8	3.9	4.9	4.9	4.4	3.8	3.8	4.1	4.2	4.0	3.7
Dry (13%)	3.8	4.0	4.2	4.2	4.1	4.7	3.9	3.9	4.2	4.5	4.2	3.9
Critical (25%)	3.8	3.8	4.0	4.2	3.8	3.7	3.6	3.6	3.9	4.2	4.0	3.8

Alternative 4A (ELT) minus No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.1	-0.2	-0.4	-0.6	-0.3	-0.4	-0.3	-0.2	0.0	-0.3	-0.1	-0.3
20%	-0.1	0.0	0.0	-0.5	-0.6	-0.5	-0.1	-0.1	0.2	-0.3	-0.1	0.0
30%	-0.1	-0.1	0.0	-0.3	-0.4	-0.4	-0.1	0.0	0.0	-0.2	0.0	-0.2
40%	0.0	-0.2	0.0	-0.2	-0.3	-0.4	0.0	0.0	0.1	-0.2	-0.1	-0.1
50%	0.0	-0.1	0.0	-0.2	-0.2	-0.5	0.0	0.0	0.1	-0.2	-0.1	0.0
60%	0.1	0.0	0.0	0.1	0.0	-0.3	-0.1	0.0	0.0	-0.3	-0.1	0.0
70%	0.1	-0.1	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	-0.2	0.0	0.0
80%	0.1	-0.2	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	-0.2	-0.1	-0.1
90%	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	-0.2	0.0	-0.1
Long Term												
Full Simulation Period[a]	0.0	-0.1	-0.1	-0.2	-0.2	-0.3	-0.1	-0.1	0.0	-0.2	0.0	-0.1
Water Year Types[b]												
Wet (31%)	0.0	-0.2	-0.3	-0.5	-0.4	-0.5	-0.1	-0.3	-0.2	-0.2	0.0	-0.3
Above Normal (25%)	0.0	-0.1	0.0	-0.6	-0.3	-0.5	-0.2	-0.1	0.0	-0.1	0.0	-0.2
Below Normal (6%)	-0.1	-0.2	0.0	0.0	-0.3	-0.4	0.0	0.0	0.1	-0.1	-0.1	-0.2
Dry (13%)	0.0	-0.1	0.0	-0.1	-0.1	-0.2	0.0	0.0	0.1	-0.2	-0.2	-0.1
Critical (25%)	0.0	-0.1	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	-0.2	0.0	0.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-69-1-7. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Maximum Elevation

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.2	6.1	9.6	9.0	10.8	9.6	7.1	4.9	4.4	5.1	4.6	5.2
20%	3.9	4.9	4.7	7.8	9.8	8.3	4.5	4.2	4.3	4.9	4.5	4.7
30%	3.9	4.1	4.6	6.4	6.7	6.8	4.2	4.1	4.2	4.7	4.4	4.3
40%	3.8	4.0	4.5	4.9	5.3	5.2	3.9	3.9	4.1	4.7	4.4	4.1
50%	3.7	4.0	4.3	4.8	4.7	5.0	3.8	3.9	4.0	4.7	4.3	4.0
60%	3.7	3.9	4.2	4.5	4.1	4.5	3.8	3.8	3.9	4.6	4.3	3.9
70%	3.6	3.8	4.0	4.2	4.0	4.1	3.7	3.7	3.9	4.6	4.1	3.9
80%	3.6	3.7	3.9	4.1	3.9	3.7	3.7	3.7	3.9	4.4	4.1	3.9
90%	3.5	3.5	3.8	3.8	3.6	3.6	3.5	3.5	3.8	4.3	3.9	3.8
Long Term												
Full Simulation Period[a]	3.8	4.5	5.3	5.7	6.1	5.9	4.6	4.2	4.2	4.6	4.3	4.3
Water Year Types[b]												
Wet (31%)	4.1	6.3	8.9	7.7	9.6	9.2	6.9	5.4	4.9	5.0	4.6	5.2
Above Normal (25%)	3.5	3.7	4.4	8.9	8.9	7.5	4.7	4.1	3.9	4.5	4.4	4.3
Below Normal (6%)	3.8	4.0	3.9	4.9	5.3	4.8	3.8	3.9	4.0	4.3	4.1	3.9
Dry (13%)	3.8	4.1	4.2	4.3	4.2	4.9	3.9	3.9	4.2	4.7	4.4	4.0
Critical (25%)	3.7	3.8	4.0	4.2	3.8	3.8	3.6	3.6	3.9	4.4	4.0	3.8

Alternative 5A (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.0	5.9	9.6	8.9	10.8	9.8	7.1	4.8	4.3	4.9	4.5	4.8
20%	3.8	4.8	4.6	7.8	9.8	8.4	4.3	4.1	4.3	4.8	4.3	4.4
30%	3.7	3.9	4.6	6.3	6.5	6.5	4.1	4.0	4.1	4.7	4.3	4.0
40%	3.7	3.8	4.4	4.7	5.1	4.9	3.8	3.9	4.0	4.7	4.3	3.9
50%	3.7	3.8	4.2	4.6	4.5	4.7	3.8	3.8	4.0	4.5	4.2	3.9
60%	3.6	3.8	4.1	4.3	4.0	4.3	3.7	3.8	3.9	4.5	4.1	3.8
70%	3.6	3.7	4.0	4.2	3.9	3.9	3.7	3.7	3.9	4.4	4.0	3.8
80%	3.5	3.5	3.9	4.1	3.9	3.7	3.6	3.6	3.8	4.3	3.9	3.7
90%	3.5	3.5	3.7	3.8	3.6	3.5	3.4	3.4	3.8	4.0	3.8	3.6
Long Term												
Full Simulation Period[a]	3.7	4.3	5.3	5.6	6.0	5.8	4.6	4.1	4.2	4.5	4.2	4.1
Water Year Types[b]												
Wet (31%)	4.0	6.1	8.8	7.5	9.5	9.1	7.0	5.2	4.9	4.8	4.5	4.8
Above Normal (25%)	3.4	3.6	4.4	8.8	8.9	7.4	4.4	4.0	3.9	4.5	4.2	4.0
Below Normal (6%)	3.7	3.8	3.9	4.9	5.1	4.6	3.7	3.8	4.0	4.3	3.8	3.7
Dry (13%)	3.7	3.9	4.2	4.2	4.1	4.7	3.8	3.9	4.1	4.7	4.3	3.8
Critical (25%)	3.7	3.7	4.0	4.1	3.7	3.7	3.5	3.5	3.8	4.2	3.9	3.8

Alternative 5A (ELT) minus No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.2	-0.2	0.0	-0.1	0.0	0.2	-0.1	-0.1	-0.1	-0.2	-0.2	-0.4
20%	-0.1	-0.1	-0.1	0.0	0.1	0.1	-0.2	0.0	0.0	-0.1	-0.1	-0.3
30%	-0.2	-0.2	0.0	-0.1	-0.2	-0.2	-0.1	-0.1	-0.1	0.0	-0.1	-0.3
40%	-0.1	-0.2	0.0	-0.2	-0.1	-0.3	-0.1	0.0	0.0	0.0	-0.1	-0.2
50%	0.0	-0.2	-0.1	-0.2	-0.2	-0.3	-0.1	-0.1	0.0	-0.1	-0.1	-0.1
60%	0.0	-0.1	-0.1	-0.1	-0.1	-0.2	-0.1	-0.1	0.0	-0.2	-0.2	-0.1
70%	0.0	-0.1	0.0	-0.1	-0.1	-0.1	-0.1	0.0	-0.1	-0.2	-0.1	-0.1
80%	0.0	-0.2	0.0	0.0	-0.1	-0.1	-0.1	0.0	0.0	-0.2	-0.1	-0.1
90%	0.0	-0.1	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	-0.3	-0.1	-0.2
Long Term												
Full Simulation Period[a]	-0.1	-0.2	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	-0.1	-0.1	-0.2
Water Year Types[b]												
Wet (31%)	-0.1	-0.2	-0.1	-0.1	-0.1	-0.1	0.1	-0.2	-0.1	-0.2	-0.1	-0.4
Above Normal (25%)	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.2	-0.1	0.0	0.0	-0.2	-0.3
Below Normal (6%)	-0.1	-0.3	0.0	-0.1	-0.1	-0.3	-0.1	-0.1	0.0	-0.1	-0.2	-0.2
Dry (13%)	-0.1	-0.1	-0.1	0.0	-0.1	-0.2	-0.1	0.0	0.0	0.0	-0.1	-0.1
Critical (25%)	-0.1	-0.1	0.0	-0.1	-0.1	-0.1	0.0	0.0	-0.1	-0.2	-0.1	-0.1

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-69-2-1. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	4.6	8.8	8.3	10.2	9.5	6.2	3.0	1.5	2.0	1.4	1.6
20%	0.9	3.5	2.5	6.7	9.3	7.5	2.2	1.2	0.8	1.6	1.3	1.0
30%	0.7	1.1	1.8	4.8	5.0	5.8	1.7	1.1	0.8	1.6	1.2	0.9
40%	0.6	0.8	1.5	2.5	4.0	4.2	1.2	1.0	0.7	1.6	1.2	0.9
50%	0.6	0.6	1.3	2.4	2.6	3.3	1.0	0.8	0.7	1.6	1.1	0.8
60%	0.6	0.6	1.0	1.8	1.2	3.1	0.8	0.6	0.7	1.5	1.0	0.7
70%	0.5	0.5	0.9	1.1	1.1	1.8	0.8	0.5	0.5	1.4	0.9	0.6
80%	0.4	0.4	0.8	0.9	1.1	1.1	0.7	0.3	0.4	1.2	0.8	0.5
90%	0.3	0.2	0.4	0.6	0.5	0.6	0.5	0.1	0.3	1.1	0.6	0.5
Long Term												
Full Simulation Period[a]	0.8	1.7	2.7	3.5	4.1	4.4	2.2	1.4	1.1	1.6	1.1	1.0
Water Year Types[b]												
Wet (31%)	1.4	4.2	7.5	6.4	8.8	8.8	5.3	3.4	2.6	2.1	1.3	1.9
Above Normal (25%)	0.4	0.7	1.6	8.1	7.8	6.7	2.9	1.5	0.9	1.3	1.1	0.9
Below Normal (6%)	0.9	0.6	0.5	2.4	4.0	3.4	1.2	1.2	0.8	1.6	1.1	0.7
Dry (13%)	0.6	1.2	1.3	1.3	1.6	3.0	1.1	0.7	0.7	1.5	1.3	0.8
Critical (25%)	0.6	0.6	0.9	1.3	0.9	1.2	0.6	0.2	0.3	1.3	0.7	0.5

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	4.1	8.7	8.0	10.1	8.9	5.9	2.8	1.4	2.5	1.7	3.0
20%	1.3	2.7	2.5	6.7	9.0	7.3	2.3	1.4	1.1	2.2	1.7	2.4
30%	1.1	1.6	2.1	4.7	5.2	5.5	1.9	1.2	1.1	2.0	1.6	1.9
40%	1.1	1.4	1.7	2.6	3.2	3.6	1.5	1.2	1.0	1.9	1.5	1.3
50%	0.9	1.2	1.6	2.4	2.5	3.1	1.3	1.1	1.0	1.9	1.5	1.2
60%	0.9	1.0	1.4	2.0	1.5	2.5	1.1	1.0	0.9	1.7	1.4	1.1
70%	0.8	0.9	1.2	1.5	1.3	1.8	1.1	0.8	0.7	1.7	1.1	1.0
80%	0.8	0.8	1.0	1.4	1.2	1.2	1.0	0.7	0.7	1.6	0.9	0.9
90%	0.6	0.6	0.8	1.1	0.8	0.9	0.9	0.6	0.7	1.3	0.9	0.8
Long Term												
Full Simulation Period[a]	1.1	1.9	3.0	3.6	4.2	4.2	2.4	1.6	1.3	1.8	1.4	1.6
Water Year Types[b]												
Wet (31%)	1.5	4.2	7.6	6.3	8.7	8.4	5.3	3.2	2.3	2.2	1.6	3.1
Above Normal (25%)	0.7	0.9	1.9	7.8	7.8	6.4	2.8	1.5	0.9	1.9	1.6	1.9
Below Normal (6%)	1.1	1.4	1.2	2.6	3.2	3.0	1.5	1.2	1.1	1.6	1.2	1.1
Dry (13%)	1.0	1.4	1.5	1.6	1.8	2.8	1.4	1.1	1.1	2.0	1.5	1.1
Critical (25%)	1.0	1.0	1.1	1.6	1.1	1.4	0.9	0.7	0.7	1.5	1.0	0.9

No Action Alternative (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.0	-0.4	-0.1	-0.3	-0.1	-0.6	-0.3	-0.1	-0.1	0.5	0.3	1.4
20%	0.4	-0.8	-0.1	0.0	-0.2	-0.1	0.1	0.3	0.3	0.6	0.5	1.4
30%	0.4	0.4	0.2	-0.1	0.2	-0.3	0.2	0.2	0.3	0.4	0.4	0.9
40%	0.5	0.6	0.2	0.2	-0.8	-0.6	0.3	0.2	0.3	0.3	0.4	0.4
50%	0.4	0.6	0.3	0.0	0.0	-0.2	0.2	0.3	0.3	0.3	0.4	0.4
60%	0.3	0.4	0.3	0.2	0.4	-0.6	0.3	0.4	0.2	0.2	0.4	0.4
70%	0.3	0.4	0.3	0.4	0.2	-0.1	0.3	0.3	0.2	0.3	0.2	0.3
80%	0.3	0.4	0.2	0.4	0.1	0.1	0.4	0.4	0.4	0.4	0.2	0.4
90%	0.3	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.3	0.2	0.4
Long Term												
Full Simulation Period[a]	0.3	0.3	0.2	0.1	0.1	-0.1	0.2	0.2	0.2	0.3	0.3	0.6
Water Year Types[b]												
Wet (31%)	0.1	0.0	0.1	-0.1	-0.1	-0.4	0.0	-0.1	-0.3	0.2	0.3	1.2
Above Normal (25%)	0.3	0.2	0.3	-0.3	0.1	-0.3	-0.1	0.0	0.1	0.5	0.6	0.9
Below Normal (6%)	0.2	0.8	0.7	0.2	-0.8	-0.4	0.3	0.0	0.3	0.1	0.1	0.4
Dry (13%)	0.4	0.2	0.3	0.2	0.2	-0.2	0.3	0.3	0.3	0.4	0.2	0.3
Critical (25%)	0.4	0.4	0.2	0.3	0.3	0.2	0.3	0.5	0.4	0.2	0.2	0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

Table C-69-2-2. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	4.6	8.8	8.3	10.2	9.5	6.2	3.0	1.5	2.0	1.4	1.6
20%	0.9	3.5	2.5	6.7	9.3	7.5	2.2	1.2	0.8	1.6	1.3	1.0
30%	0.7	1.1	1.8	4.8	5.0	5.8	1.7	1.1	0.8	1.6	1.2	0.9
40%	0.6	0.8	1.5	2.5	4.0	4.2	1.2	1.0	0.7	1.6	1.2	0.9
50%	0.6	0.6	1.3	2.4	2.6	3.3	1.0	0.8	0.7	1.6	1.1	0.8
60%	0.6	0.6	1.0	1.8	1.2	3.1	0.8	0.6	0.7	1.5	1.0	0.7
70%	0.5	0.5	0.9	1.1	1.1	1.8	0.8	0.5	0.5	1.4	0.9	0.6
80%	0.4	0.4	0.8	0.9	1.1	1.1	0.7	0.3	0.4	1.2	0.8	0.5
90%	0.3	0.2	0.4	0.6	0.5	0.6	0.5	0.1	0.3	1.1	0.6	0.5
Long Term												
Full Simulation Period[a]	0.8	1.7	2.7	3.5	4.1	4.4	2.2	1.4	1.1	1.6	1.1	1.0
Water Year Types[b]												
Wet (31%)	1.4	4.2	7.5	6.4	8.8	8.8	5.3	3.4	2.6	2.1	1.3	1.9
Above Normal (25%)	0.4	0.7	1.6	8.1	7.8	6.7	2.9	1.5	0.9	1.3	1.1	0.9
Below Normal (6%)	0.9	0.6	0.5	2.4	4.0	3.4	1.2	1.2	0.8	1.6	1.1	0.7
Dry (13%)	0.6	1.2	1.3	1.3	1.6	3.0	1.1	0.7	0.7	1.5	1.3	0.8
Critical (25%)	0.6	0.6	0.9	1.3	0.9	1.2	0.6	0.2	0.3	1.3	0.7	0.5

Alternative 2D (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.9	2.9	7.4	6.8	9.0	7.8	4.9	1.7	1.2	2.3	1.4	1.5
20%	0.7	2.1	1.9	5.6	7.9	6.2	1.9	1.4	1.2	2.2	1.2	1.5
30%	0.7	0.9	1.8	3.7	4.0	4.7	1.4	1.3	1.1	1.8	1.1	1.0
40%	0.7	0.8	1.3	1.9	2.5	2.4	1.3	1.3	1.0	1.8	1.1	0.9
50%	0.6	0.8	1.3	1.8	1.8	2.2	1.2	1.2	0.9	1.6	1.1	0.9
60%	0.6	0.6	1.2	1.5	1.1	1.9	1.1	1.1	0.8	1.3	1.0	0.9
70%	0.5	0.5	1.0	1.2	1.1	1.4	1.1	0.9	0.8	1.2	0.9	0.8
80%	0.5	0.4	0.9	1.1	1.0	1.0	1.0	0.8	0.8	1.1	0.8	0.7
90%	0.3	0.3	0.7	1.0	0.8	0.9	1.0	0.6	0.7	0.9	0.7	0.7
Long Term												
Full Simulation Period[a]	0.6	1.3	2.5	3.0	3.5	3.5	2.1	1.4	1.1	1.6	1.0	1.0
Water Year Types[b]												
Wet (31%)	0.7	3.2	6.6	5.3	7.6	7.1	4.7	2.4	1.7	1.8	1.0	1.6
Above Normal (25%)	0.6	0.4	1.6	6.5	6.9	5.4	1.9	1.2	0.9	2.0	1.1	0.8
Below Normal (6%)	0.7	0.3	0.9	2.2	2.5	2.0	1.3	1.2	1.2	0.4	0.5	0.7
Dry (13%)	0.5	0.9	1.2	1.2	1.3	2.3	1.3	1.2	1.1	2.0	1.3	0.7
Critical (25%)	0.6	0.8	1.0	1.3	0.9	1.2	1.0	0.7	0.8	1.1	1.0	0.9

Alternative 2D (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.9	-1.6	-1.4	-1.5	-1.2	-1.7	-1.3	-1.3	-0.2	0.4	-0.1	-0.1
20%	-0.2	-1.4	-0.6	-1.1	-1.4	-1.2	-0.3	0.2	0.4	0.6	-0.1	0.5
30%	0.0	-0.3	-0.1	-1.1	-1.0	-1.1	-0.3	0.2	0.3	0.2	-0.1	0.0
40%	0.1	0.1	-0.1	-0.5	-1.5	-1.8	0.1	0.3	0.2	0.2	0.0	0.0
50%	0.1	0.2	0.0	-0.6	-0.7	-1.1	0.2	0.4	0.1	0.1	0.0	0.1
60%	0.0	0.0	0.1	-0.3	-0.1	-1.1	0.3	0.5	0.1	-0.3	0.0	0.1
70%	0.1	0.1	0.1	0.1	-0.1	-0.4	0.3	0.4	0.3	-0.2	0.0	0.1
80%	0.1	0.0	0.1	0.2	0.0	0.0	0.4	0.4	0.4	-0.2	0.0	0.2
90%	0.1	0.1	0.3	0.3	0.3	0.3	0.5	0.5	0.4	-0.2	0.1	0.2
Long Term												
Full Simulation Period[a]	-0.2	-0.3	-0.2	-0.5	-0.6	-0.8	-0.1	0.0	0.0	0.0	0.0	0.0
Water Year Types[b]												
Wet (31%)	-0.7	-1.0	-0.9	-1.1	-1.2	-1.6	-0.6	-1.0	-0.9	-0.3	-0.3	-0.3
Above Normal (25%)	0.2	-0.3	0.0	-1.6	-0.9	-1.3	-1.0	-0.3	0.0	0.7	0.1	-0.1
Below Normal (6%)	-0.2	-0.3	0.4	-0.3	-1.5	-1.4	0.2	0.0	0.4	-1.2	-0.7	0.0
Dry (13%)	-0.1	-0.3	-0.1	-0.1	-0.3	-0.7	0.1	0.5	0.4	0.5	0.0	0.0
Critical (25%)	0.0	0.2	0.1	0.0	0.1	0.0	0.4	0.5	0.4	-0.1	0.2	0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-69-2-3. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	4.6	8.8	8.3	10.2	9.5	6.2	3.0	1.5	2.0	1.4	1.6
20%	0.9	3.5	2.5	6.7	9.3	7.5	2.2	1.2	0.8	1.6	1.3	1.0
30%	0.7	1.1	1.8	4.8	5.0	5.8	1.7	1.1	0.8	1.6	1.2	0.9
40%	0.6	0.8	1.5	2.5	4.0	4.2	1.2	1.0	0.7	1.6	1.2	0.9
50%	0.6	0.6	1.3	2.4	2.6	3.3	1.0	0.8	0.7	1.6	1.1	0.8
60%	0.6	0.6	1.0	1.8	1.2	3.1	0.8	0.6	0.7	1.5	1.0	0.7
70%	0.5	0.5	0.9	1.1	1.1	1.8	0.8	0.5	0.5	1.4	0.9	0.6
80%	0.4	0.4	0.8	0.9	1.1	1.1	0.7	0.3	0.4	1.2	0.8	0.5
90%	0.3	0.2	0.4	0.6	0.5	0.6	0.5	0.1	0.3	1.1	0.6	0.5
Long Term												
Full Simulation Period[a]	0.8	1.7	2.7	3.5	4.1	4.4	2.2	1.4	1.1	1.6	1.1	1.0
Water Year Types[b]												
Wet (31%)	1.4	4.2	7.5	6.4	8.8	8.8	5.3	3.4	2.6	2.1	1.3	1.9
Above Normal (25%)	0.4	0.7	1.6	8.1	7.8	6.7	2.9	1.5	0.9	1.3	1.1	0.9
Below Normal (6%)	0.9	0.6	0.5	2.4	4.0	3.4	1.2	1.2	0.8	1.6	1.1	0.7
Dry (13%)	0.6	1.2	1.3	1.3	1.6	3.0	1.1	0.7	0.7	1.5	1.3	0.8
Critical (25%)	0.6	0.6	0.9	1.3	0.9	1.2	0.6	0.2	0.3	1.3	0.7	0.5

Alternative 4A (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.9	3.3	7.9	7.3	9.5	8.4	5.4	2.3	1.1	1.3	1.3	2.1
20%	0.8	2.2	1.9	5.8	8.3	6.5	2.3	1.5	1.0	1.2	1.2	1.9
30%	0.6	0.9	1.8	4.1	4.4	4.8	1.9	1.3	0.9	1.1	1.1	1.2
40%	0.6	0.8	1.4	2.3	2.7	2.6	1.5	1.2	0.8	1.1	1.0	1.0
50%	0.6	0.7	1.3	2.1	2.0	2.4	1.2	1.1	0.8	1.0	1.0	1.0
60%	0.6	0.6	1.2	1.8	1.2	2.1	1.2	1.0	0.8	1.0	0.9	0.9
70%	0.5	0.5	0.9	1.3	1.1	1.4	1.1	0.8	0.8	0.9	0.9	0.8
80%	0.5	0.4	0.9	1.1	1.0	1.1	1.1	0.7	0.8	0.9	0.8	0.7
90%	0.4	0.3	0.7	0.9	0.7	0.9	0.9	0.6	0.7	0.8	0.7	0.6
Long Term												
Full Simulation Period[a]	0.6	1.4	2.6	3.2	3.7	3.7	2.3	1.4	1.1	1.1	1.0	1.2
Water Year Types[b]												
Wet (31%)	0.8	3.5	7.0	5.6	8.1	7.6	5.0	2.7	1.8	1.3	0.9	2.0
Above Normal (25%)	0.6	0.5	1.6	7.0	7.1	5.6	2.6	1.4	0.7	1.2	1.0	1.2
Below Normal (6%)	0.6	0.4	0.9	2.3	2.7	2.2	1.5	1.2	0.8	0.7	0.4	0.7
Dry (13%)	0.5	0.9	1.2	1.2	1.4	2.4	1.4	1.1	0.9	1.0	1.0	0.7
Critical (25%)	0.6	0.7	1.0	1.5	0.9	1.2	1.0	0.7	0.8	1.0	1.0	0.9

Alternative 4A (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**-0.8**	**-1.2**	**-1.0**	**-1.0**	**-0.7**	**-1.1**	**-0.8**	**-0.6**	**-0.4**	**-0.6**	**-0.2**	0.4
20%	**-0.2**	**-1.3**	**-0.6**	**-0.8**	**-1.0**	**-0.9**	0.1	0.3	0.2	**-0.4**	**-0.1**	0.9
30%	**-0.1**	**-0.3**	**0.0**	**-0.7**	**-0.6**	**-1.0**	0.2	0.3	0.1	**-0.5**	**-0.1**	0.3
40%	0.0	0.0	**0.0**	**-0.2**	**-1.3**	**-1.5**	0.3	0.3	0.1	**-0.5**	**-0.1**	0.1
50%	0.0	0.2	0.0	**-0.3**	**-0.6**	**-1.0**	0.2	0.3	0.1	**-0.5**	**-0.1**	0.2
60%	**0.0**	**0.0**	0.1	0.0	0.1	**-1.0**	0.3	0.4	0.1	**-0.6**	**0.0**	0.2
70%	0.0	0.0	0.0	0.2	**-0.1**	**-0.4**	0.3	0.3	0.3	**-0.4**	**0.0**	0.2
80%	0.0	0.0	0.0	0.2	**0.0**	**0.0**	0.4	0.4	0.4	**-0.3**	0.0	0.2
90%	0.1	0.1	0.3	0.3	0.2	0.3	0.4	0.4	0.4	**-0.3**	0.0	0.1
Long Term												
Full Simulation Period[a]	**-0.2**	**-0.2**	**-0.1**	**-0.3**	**-0.4**	**-0.7**	0.1	0.1	**0.0**	**-0.5**	**-0.1**	0.2
Water Year Types[b]												
Wet (31%)	**-0.6**	**-0.7**	**-0.5**	**-0.8**	**-0.7**	**-1.2**	**-0.2**	**-0.6**	**-0.8**	**-0.8**	**-0.4**	0.2
Above Normal (25%)	0.2	**-0.2**	0.0	**-1.2**	**-0.6**	**-1.1**	**-0.4**	**-0.1**	**-0.2**	**-0.2**	**-0.1**	0.3
Below Normal (6%)	**-0.3**	**-0.2**	0.4	**-0.2**	**-1.3**	**-1.2**	0.3	0.0	0.0	**-0.9**	**-0.8**	**0.0**
Dry (13%)	**-0.1**	**-0.3**	**-0.1**	**-0.1**	**-0.2**	**-0.6**	0.3	0.4	0.2	**-0.6**	**-0.3**	**-0.1**
Critical (25%)	**0.0**	0.2	0.1	0.2	0.1	0.0	0.4	0.5	0.4	**-0.3**	0.3	0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-69-2-4. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	4.6	8.8	8.3	10.2	9.5	6.2	3.0	1.5	2.0	1.4	1.6
20%	0.9	3.5	2.5	6.7	9.3	7.5	2.2	1.2	0.8	1.6	1.3	1.0
30%	0.7	1.1	1.8	4.8	5.0	5.8	1.7	1.1	0.8	1.6	1.2	0.9
40%	0.6	0.8	1.5	2.5	4.0	4.2	1.2	1.0	0.7	1.6	1.2	0.9
50%	0.6	0.6	1.3	2.4	2.6	3.3	1.0	0.8	0.7	1.6	1.1	0.8
60%	0.6	0.6	1.0	1.8	1.2	3.1	0.8	0.6	0.7	1.5	1.0	0.7
70%	0.5	0.5	0.9	1.1	1.1	1.8	0.8	0.5	0.5	1.4	0.9	0.6
80%	0.4	0.4	0.8	0.9	1.1	1.1	0.7	0.3	0.4	1.2	0.8	0.5
90%	0.3	0.2	0.4	0.6	0.5	0.6	0.5	0.1	0.3	1.1	0.6	0.5
Long Term												
Full Simulation Period[a]	0.8	1.7	2.7	3.5	4.1	4.4	2.2	1.4	1.1	1.6	1.1	1.0
Water Year Types[b]												
Wet (31%)	1.4	4.2	7.5	6.4	8.8	8.8	5.3	3.4	2.6	2.1	1.3	1.9
Above Normal (25%)	0.4	0.7	1.6	8.1	7.8	6.7	2.9	1.5	0.9	1.3	1.1	0.9
Below Normal (6%)	0.9	0.6	0.5	2.4	4.0	3.4	1.2	1.2	0.8	1.6	1.1	0.7
Dry (13%)	0.6	1.2	1.3	1.3	1.6	3.0	1.1	0.7	0.7	1.5	1.3	0.8
Critical (25%)	0.6	0.6	0.9	1.3	0.9	1.2	0.6	0.2	0.3	1.3	0.7	0.5

Alternative 5A (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.4	3.7	8.6	8.0	10.0	9.2	5.9	2.4	1.3	2.1	1.6	2.3
20%	0.9	2.5	2.3	6.5	9.0	7.4	1.9	1.5	1.1	2.0	1.5	1.7
30%	0.8	1.1	2.0	4.5	4.9	5.1	1.6	1.3	1.1	1.9	1.4	1.3
40%	0.8	0.9	1.6	2.5	3.1	3.2	1.4	1.1	1.0	1.9	1.1	1.0
50%	0.8	0.8	1.5	2.2	2.3	2.8	1.2	1.0	0.9	1.8	1.1	0.9
60%	0.7	0.8	1.3	1.8	1.4	2.2	1.2	0.9	0.8	1.6	1.0	0.9
70%	0.7	0.7	1.1	1.5	1.2	1.6	1.1	0.8	0.8	1.4	1.0	0.8
80%	0.7	0.6	1.1	1.3	1.1	1.2	1.0	0.7	0.8	1.0	0.9	0.8
90%	0.6	0.5	0.8	1.1	0.9	1.0	0.9	0.6	0.7	0.8	0.8	0.7
Long Term												
Full Simulation Period[a]	0.9	1.7	2.9	3.5	4.1	4.1	2.4	1.5	1.2	1.6	1.2	1.2
Water Year Types[b]												
Wet (31%)	1.2	3.9	7.5	6.2	8.6	8.3	5.4	2.9	2.2	1.9	1.4	2.2
Above Normal (25%)	0.6	0.8	1.8	7.7	7.7	6.3	2.4	1.3	0.8	1.8	1.2	1.3
Below Normal (6%)	0.8	0.8	1.1	2.5	3.1	2.6	1.4	1.1	1.2	1.5	0.8	0.7
Dry (13%)	0.7	1.1	1.5	1.5	1.7	2.6	1.3	1.2	1.0	1.9	1.3	0.8
Critical (25%)	0.9	0.8	1.1	1.5	1.1	1.3	1.0	0.7	0.7	1.1	0.9	0.9

Alternative 5A (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.4	-0.8	-0.3	-0.3	-0.2	-0.4	-0.3	-0.5	-0.2	0.1	0.1	0.7
20%	0.0	-1.0	-0.2	-0.1	-0.2	-0.1	-0.3	0.3	0.3	0.4	0.2	0.7
30%	0.1	-0.1	0.2	-0.3	-0.2	-0.6	-0.1	0.2	0.3	0.3	0.2	0.4
40%	0.2	0.1	0.1	0.0	-0.9	-1.0	0.2	0.2	0.3	0.3	0.0	0.1
50%	0.2	0.3	0.2	-0.2	-0.3	-0.5	0.2	0.2	0.2	0.2	0.0	0.1
60%	0.2	0.2	0.3	0.1	0.3	-0.9	0.3	0.3	0.1	0.1	0.0	0.1
70%	0.2	0.2	0.2	0.4	0.1	-0.2	0.3	0.3	0.3	0.0	0.1	0.2
80%	0.2	0.2	0.2	0.3	0.1	0.1	0.4	0.4	0.4	-0.2	0.1	0.3
90%	0.3	0.3	0.4	0.5	0.4	0.4	0.4	0.4	0.4	-0.2	0.2	0.2
Long Term												
Full Simulation Period[a]	0.1	0.0	0.2	0.0	0.0	-0.3	0.1	0.1	0.1	0.0	0.1	0.3
Water Year Types[b]												
Wet (31%)	-0.2	-0.4	0.0	-0.2	-0.2	-0.5	0.1	-0.4	-0.5	-0.1	0.1	0.3
Above Normal (25%)	0.2	0.1	0.2	-0.5	-0.1	-0.4	-0.5	-0.3	-0.1	0.5	0.2	0.4
Below Normal (6%)	-0.1	0.2	0.7	0.0	-0.9	-0.8	0.2	-0.1	0.4	-0.1	-0.4	0.0
Dry (13%)	0.2	-0.1	0.2	0.2	0.1	-0.4	0.2	0.4	0.3	0.3	0.0	0.0
Critical (25%)	0.2	0.3	0.2	0.2	0.2	0.2	0.4	0.5	0.4	-0.2	0.2	0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-69-2-5. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Minimum Elevation

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	4.1	8.7	8.0	10.1	8.9	5.9	2.8	1.4	2.5	1.7	3.0
20%	1.3	2.7	2.5	6.7	9.0	7.3	2.3	1.4	1.1	2.2	1.7	2.4
30%	1.1	1.6	2.1	4.7	5.2	5.5	1.9	1.2	1.1	2.0	1.6	1.9
40%	1.1	1.4	1.7	2.6	3.2	3.6	1.5	1.2	1.0	1.9	1.5	1.3
50%	0.9	1.2	1.6	2.4	2.5	3.1	1.3	1.1	1.0	1.9	1.5	1.2
60%	0.9	1.0	1.4	2.0	1.5	2.5	1.1	1.0	0.9	1.7	1.4	1.1
70%	0.8	0.9	1.2	1.5	1.3	1.8	1.1	0.8	0.7	1.7	1.1	1.0
80%	0.8	0.8	1.0	1.4	1.2	1.2	1.0	0.7	0.7	1.6	0.9	0.9
90%	0.6	0.6	0.8	1.1	0.8	0.9	0.9	0.6	0.7	1.3	0.9	0.8
Long Term												
Full Simulation Period[a]	1.1	1.9	3.0	3.6	4.2	4.2	2.4	1.6	1.3	1.8	1.4	1.6
Water Year Types[b]												
Wet (31%)	1.5	4.2	7.6	6.3	8.7	8.4	5.3	3.2	2.3	2.2	1.6	3.1
Above Normal (25%)	0.7	0.9	1.9	7.8	7.8	6.4	2.8	1.5	0.9	1.9	1.6	1.9
Below Normal (6%)	1.1	1.4	1.2	2.6	3.2	3.0	1.5	1.2	1.1	1.6	1.2	1.1
Dry (13%)	1.0	1.4	1.5	1.6	1.8	2.8	1.4	1.1	1.1	2.0	1.5	1.1
Critical (25%)	1.0	1.0	1.1	1.6	1.1	1.4	0.9	0.7	0.7	1.5	1.0	0.9

Alternative 2D (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.9	2.9	7.4	6.8	9.0	7.8	4.9	1.7	1.2	2.3	1.4	1.5
20%	0.7	2.1	1.9	5.6	7.9	6.2	1.9	1.4	1.2	2.2	1.2	1.5
30%	0.7	0.9	1.8	3.7	4.0	4.7	1.4	1.3	1.1	1.8	1.1	1.0
40%	0.7	0.8	1.3	1.9	2.5	2.4	1.3	1.3	1.0	1.8	1.1	0.9
50%	0.6	0.8	1.3	1.8	1.8	2.2	1.2	1.2	0.9	1.6	1.1	0.9
60%	0.6	0.6	1.2	1.5	1.1	1.9	1.1	1.1	0.8	1.3	1.0	0.9
70%	0.5	0.5	1.0	1.2	1.1	1.4	1.1	0.9	0.8	1.2	0.9	0.8
80%	0.5	0.4	0.9	1.1	1.0	1.0	1.0	0.8	0.8	1.1	0.8	0.7
90%	0.3	0.3	0.7	1.0	0.8	0.9	1.0	0.6	0.7	0.9	0.7	0.7
Long Term												
Full Simulation Period[a]	0.6	1.3	2.5	3.0	3.5	3.5	2.1	1.4	1.1	1.6	1.0	1.0
Water Year Types[b]												
Wet (31%)	0.7	3.2	6.6	5.3	7.6	7.1	4.7	2.4	1.7	1.8	1.0	1.6
Above Normal (25%)	0.6	0.4	1.6	6.5	6.9	5.4	1.9	1.2	0.9	2.0	1.1	0.8
Below Normal (6%)	0.7	0.3	0.9	2.2	2.5	2.0	1.3	1.2	1.2	0.4	0.5	0.7
Dry (13%)	0.5	0.9	1.2	1.2	1.3	2.3	1.3	1.2	1.1	2.0	1.3	0.7
Critical (25%)	0.6	0.8	1.0	1.3	0.9	1.2	1.0	0.7	0.8	1.1	1.0	0.9

Alternative 2D (ELT) minus No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.9	-1.2	-1.3	-1.2	-1.1	-1.1	-1.1	-1.1	-0.2	-0.2	-0.4	-1.5
20%	-0.6	-0.6	-0.6	-1.1	-1.1	-1.1	-0.4	-0.1	0.0	0.0	-0.6	-0.9
30%	-0.4	-0.7	-0.3	-0.9	-1.2	-0.8	-0.5	0.0	0.0	-0.2	-0.5	-0.9
40%	-0.4	-0.5	-0.4	-0.7	-0.8	-1.2	-0.2	0.1	-0.1	-0.1	-0.4	-0.4
50%	-0.3	-0.4	-0.4	-0.6	-0.7	-0.9	-0.1	0.1	-0.1	-0.3	-0.4	-0.3
60%	-0.3	-0.4	-0.2	-0.5	-0.4	-0.5	0.0	0.1	-0.1	-0.4	-0.4	-0.2
70%	-0.3	-0.4	-0.2	-0.2	-0.3	-0.4	0.0	0.1	0.1	-0.5	-0.3	-0.2
80%	-0.3	-0.4	-0.1	-0.2	-0.2	-0.2	0.0	0.0	0.1	-0.6	-0.2	-0.2
90%	-0.3	-0.3	-0.1	-0.1	-0.1	-0.1	0.1	0.0	0.0	-0.5	-0.1	-0.1
Long Term												
Full Simulation Period[a]	-0.5	-0.6	-0.4	-0.6	-0.6	-0.7	-0.3	-0.2	-0.1	-0.3	-0.3	-0.6
Water Year Types[b]												
Wet (31%)	-0.8	-1.1	-1.0	-1.0	-1.1	-1.2	-0.6	-0.8	-0.6	-0.5	-0.7	-1.5
Above Normal (25%)	-0.1	-0.5	-0.3	-1.3	-1.0	-1.0	-0.9	-0.3	-0.1	0.2	-0.5	-1.1
Below Normal (6%)	-0.5	-1.1	-0.3	-0.5	-0.8	-1.0	-0.1	0.0	0.0	-1.3	-0.8	-0.4
Dry (13%)	-0.5	-0.5	-0.3	-0.4	-0.5	-0.5	-0.1	0.1	0.0	0.0	-0.2	-0.4
Critical (25%)	-0.4	-0.2	-0.1	-0.3	-0.2	-0.2	0.1	0.1	0.0	-0.3	0.0	0.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-69-2-6. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Minimum Elevation

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	4.1	8.7	8.0	10.1	8.9	5.9	2.8	1.4	2.5	1.7	3.0
20%	1.3	2.7	2.5	6.7	9.0	7.3	2.3	1.4	1.1	2.2	1.7	2.4
30%	1.1	1.6	2.1	4.7	5.2	5.5	1.9	1.2	1.1	2.0	1.6	1.9
40%	1.1	1.4	1.7	2.6	3.2	3.6	1.5	1.2	1.0	1.9	1.5	1.3
50%	0.9	1.2	1.6	2.4	2.5	3.1	1.3	1.1	1.0	1.9	1.5	1.2
60%	0.9	1.0	1.4	2.0	1.5	2.5	1.1	1.0	0.9	1.7	1.4	1.1
70%	0.8	0.9	1.2	1.5	1.3	1.8	1.1	0.8	0.7	1.7	1.1	1.0
80%	0.8	0.8	1.0	1.4	1.2	1.2	1.0	0.7	0.7	1.6	0.9	0.9
90%	0.6	0.6	0.8	1.1	0.8	0.9	0.9	0.6	0.7	1.3	0.9	0.8
Long Term												
Full Simulation Period[a]	1.1	1.9	3.0	3.6	4.2	4.2	2.4	1.6	1.3	1.8	1.4	1.6
Water Year Types[b]												
Wet (31%)	1.5	4.2	7.6	6.3	8.7	8.4	5.3	3.2	2.3	2.2	1.6	3.1
Above Normal (25%)	0.7	0.9	1.9	7.8	7.8	6.4	2.8	1.5	0.9	1.9	1.6	1.9
Below Normal (6%)	1.1	1.4	1.2	2.6	3.2	3.0	1.5	1.2	1.1	1.6	1.2	1.1
Dry (13%)	1.0	1.4	1.5	1.6	1.8	2.8	1.4	1.1	1.1	2.0	1.5	1.1
Critical (25%)	1.0	1.0	1.1	1.6	1.1	1.4	0.9	0.7	0.7	1.5	1.0	0.9

Alternative 4A (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.9	3.3	7.9	7.3	9.5	8.4	5.4	2.3	1.1	1.3	1.3	2.1
20%	0.8	2.2	1.9	5.8	8.3	6.5	2.3	1.5	1.0	1.2	1.2	1.9
30%	0.6	0.9	1.8	4.1	4.4	4.8	1.9	1.3	0.9	1.1	1.1	1.2
40%	0.6	0.8	1.4	2.3	2.7	2.6	1.5	1.2	0.8	1.1	1.0	1.0
50%	0.6	0.7	1.3	2.1	2.0	2.4	1.2	1.1	0.8	1.0	1.0	1.0
60%	0.6	0.6	1.2	1.8	1.2	2.1	1.2	1.0	0.8	1.0	0.9	0.9
70%	0.5	0.5	0.9	1.3	1.1	1.4	1.1	0.8	0.8	0.9	0.9	0.8
80%	0.5	0.4	0.9	1.1	1.0	1.1	1.1	0.7	0.8	0.9	0.8	0.7
90%	0.4	0.3	0.7	0.9	0.7	0.9	0.9	0.6	0.7	0.8	0.7	0.6
Long Term												
Full Simulation Period[a]	0.6	1.4	2.6	3.2	3.7	3.7	2.3	1.4	1.1	1.1	1.0	1.2
Water Year Types[b]												
Wet (31%)	0.8	3.5	7.0	5.6	8.1	7.6	5.0	2.7	1.8	1.3	0.9	2.0
Above Normal (25%)	0.6	0.5	1.6	7.0	7.1	5.6	2.6	1.4	0.7	1.2	1.0	1.2
Below Normal (6%)	0.6	0.4	0.9	2.3	2.7	2.2	1.5	1.2	0.8	0.7	0.4	0.7
Dry (13%)	0.5	0.9	1.2	1.2	1.4	2.4	1.4	1.1	0.9	1.0	1.0	0.7
Critical (25%)	0.6	0.7	1.0	1.5	0.9	1.2	1.0	0.7	0.8	1.0	1.0	0.9

Alternative 4A (ELT) minus No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.8	-0.8	-0.8	-0.7	-0.6	-0.5	-0.5	-0.5	-0.3	-1.2	-0.5	-0.9
20%	-0.6	-0.5	-0.6	-0.9	-0.7	-0.8	0.0	0.0	-0.1	-1.0	-0.6	-0.5
30%	-0.5	-0.7	-0.3	-0.6	-0.8	-0.7	-0.1	0.1	-0.2	-0.9	-0.6	-0.7
40%	-0.5	-0.6	-0.3	-0.3	-0.6	-1.0	0.0	0.0	-0.2	-0.8	-0.5	-0.3
50%	-0.4	-0.4	-0.3	-0.3	-0.5	-0.7	0.0	0.0	-0.2	-0.9	-0.5	-0.2
60%	-0.3	-0.4	-0.2	-0.2	-0.3	-0.4	0.0	0.0	-0.1	-0.8	-0.4	-0.2
70%	-0.3	-0.4	-0.3	-0.2	-0.3	-0.3	0.0	0.0	0.1	-0.7	-0.2	-0.2
80%	-0.3	-0.4	-0.2	-0.3	-0.2	-0.1	0.0	0.0	0.1	-0.7	-0.1	-0.2
90%	-0.2	-0.3	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	-0.5	-0.2	-0.2
Long Term												
Full Simulation Period[a]	-0.4	-0.5	-0.3	-0.4	-0.4	-0.5	-0.1	-0.1	-0.2	-0.8	-0.4	-0.5
Water Year Types[b]												
Wet (31%)	-0.6	-0.7	-0.6	-0.7	-0.6	-0.8	-0.3	-0.5	-0.5	-1.0	-0.7	-1.0
Above Normal (25%)	-0.1	-0.4	-0.3	-0.9	-0.7	-0.8	-0.2	-0.1	-0.3	-0.7	-0.6	-0.7
Below Normal (6%)	-0.6	-1.0	-0.3	-0.3	-0.6	-0.8	0.0	0.0	-0.3	-1.0	-0.9	-0.4
Dry (13%)	-0.5	-0.5	-0.3	-0.3	-0.4	-0.4	0.0	0.1	-0.1	-1.0	-0.5	-0.4
Critical (25%)	-0.4	-0.2	-0.1	-0.1	-0.2	-0.2	0.0	0.0	0.1	-0.5	0.1	0.1

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-69-2-7. Sacramento River d/s of North Delta Diversion, Monthly Averaged Daily Minimum Elevation

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	4.1	8.7	8.0	10.1	8.9	5.9	2.8	1.4	2.5	1.7	3.0
20%	1.3	2.7	2.5	6.7	9.0	7.3	2.3	1.4	1.1	2.2	1.7	2.4
30%	1.1	1.6	2.1	4.7	5.2	5.5	1.9	1.2	1.1	2.0	1.6	1.9
40%	1.1	1.4	1.7	2.6	3.2	3.6	1.5	1.2	1.0	1.9	1.5	1.3
50%	0.9	1.2	1.6	2.4	2.5	3.1	1.3	1.1	1.0	1.9	1.5	1.2
60%	0.9	1.0	1.4	2.0	1.5	2.5	1.1	1.0	0.9	1.7	1.4	1.1
70%	0.8	0.9	1.2	1.5	1.3	1.8	1.1	0.8	0.7	1.7	1.1	1.0
80%	0.8	0.8	1.0	1.4	1.2	1.2	1.0	0.7	0.7	1.6	0.9	0.9
90%	0.6	0.6	0.8	1.1	0.8	0.9	0.9	0.6	0.7	1.3	0.9	0.8
Long Term												
Full Simulation Period[a]	1.1	1.9	3.0	3.6	4.2	4.2	2.4	1.6	1.3	1.8	1.4	1.6
Water Year Types[b]												
Wet (31%)	1.5	4.2	7.6	6.3	8.7	8.4	5.3	3.2	2.3	2.2	1.6	3.1
Above Normal (25%)	0.7	0.9	1.9	7.8	7.8	6.4	2.8	1.5	0.9	1.9	1.6	1.9
Below Normal (6%)	1.1	1.4	1.2	2.6	3.2	3.0	1.5	1.2	1.1	1.6	1.2	1.1
Dry (13%)	1.0	1.4	1.5	1.6	1.8	2.8	1.4	1.1	1.1	2.0	1.5	1.1
Critical (25%)	1.0	1.0	1.1	1.6	1.1	1.4	0.9	0.7	0.7	1.5	1.0	0.9

Alternative 5A (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.4	3.7	8.6	8.0	10.0	9.2	5.9	2.4	1.3	2.1	1.6	2.3
20%	0.9	2.5	2.3	6.5	9.0	7.4	1.9	1.5	1.1	2.0	1.5	1.7
30%	0.8	1.1	2.0	4.5	4.9	5.1	1.6	1.3	1.1	1.9	1.4	1.3
40%	0.8	0.9	1.6	2.5	3.1	3.2	1.4	1.1	1.0	1.9	1.1	1.0
50%	0.8	0.8	1.5	2.2	2.3	2.8	1.2	1.0	0.9	1.8	1.1	0.9
60%	0.7	0.8	1.3	1.8	1.4	2.2	1.2	0.9	0.8	1.6	1.0	0.9
70%	0.7	0.7	1.1	1.5	1.2	1.6	1.1	0.8	0.8	1.4	1.0	0.8
80%	0.7	0.6	1.1	1.3	1.1	1.2	1.0	0.7	0.8	1.0	0.9	0.8
90%	0.6	0.5	0.8	1.1	0.9	1.0	0.9	0.6	0.7	0.8	0.8	0.7
Long Term												
Full Simulation Period[a]	0.9	1.7	2.9	3.5	4.1	4.1	2.4	1.5	1.2	1.6	1.2	1.2
Water Year Types[b]												
Wet (31%)	1.2	3.9	7.5	6.2	8.6	8.3	5.4	2.9	2.2	1.9	1.4	2.2
Above Normal (25%)	0.6	0.8	1.8	7.7	7.7	6.3	2.4	1.3	0.8	1.8	1.2	1.3
Below Normal (6%)	0.8	0.8	1.1	2.5	3.1	2.6	1.4	1.1	1.2	1.5	0.8	0.7
Dry (13%)	0.7	1.1	1.5	1.5	1.7	2.6	1.3	1.2	1.0	1.9	1.3	0.8
Critical (25%)	0.9	0.8	1.1	1.5	1.1	1.3	1.0	0.7	0.7	1.1	0.9	0.9

Alternative 5A (ELT) minus No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.3	-0.4	-0.1	-0.1	-0.1	0.3	0.0	-0.4	-0.1	-0.4	-0.2	-0.7
20%	-0.4	-0.2	-0.2	-0.2	0.0	0.0	-0.4	0.0	0.0	-0.2	-0.3	-0.7
30%	-0.3	-0.5	-0.1	-0.2	-0.3	-0.3	-0.3	0.0	0.0	-0.1	-0.2	-0.5
40%	-0.3	-0.5	-0.2	-0.2	-0.1	-0.5	-0.1	-0.1	0.0	0.0	-0.4	-0.3
50%	-0.2	-0.3	-0.1	-0.3	-0.2	-0.3	0.0	-0.1	-0.1	-0.1	-0.4	-0.3
60%	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	0.0	-0.1	-0.2	-0.1	-0.4	-0.2
70%	-0.1	-0.2	-0.1	0.0	-0.1	-0.1	0.0	0.0	0.0	-0.2	-0.2	-0.1
80%	-0.1	-0.2	0.0	-0.1	-0.1	0.0	0.0	0.0	0.0	-0.6	0.0	-0.1
90%	0.0	-0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	-0.5	-0.1	-0.1
Long Term												
Full Simulation Period[a]	-0.2	-0.3	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.2	-0.2	-0.4
Water Year Types[b]												
Wet (31%)	-0.2	-0.4	-0.1	-0.2	-0.1	-0.1	0.1	-0.3	-0.2	-0.3	-0.3	-0.8
Above Normal (25%)	-0.1	-0.2	-0.1	-0.2	-0.1	-0.1	-0.4	-0.3	-0.1	0.0	-0.4	-0.5
Below Normal (6%)	-0.3	-0.6	-0.1	-0.1	-0.1	-0.4	-0.1	-0.1	0.1	-0.2	-0.5	-0.5
Dry (13%)	-0.2	-0.3	-0.1	0.0	-0.1	-0.2	-0.1	0.1	0.0	-0.1	-0.2	-0.3
Critical (25%)	-0.1	-0.2	0.0	-0.1	-0.1	0.0	0.0	0.0	0.0	-0.4	0.0	0.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

C.70. Sacramento River downstream of Georgiana Slough

Table C-70-1-1. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.6	5.2	7.4	7.1	8.3	7.7	5.7	4.2	3.8	4.2	3.9	3.9
20%	3.3	4.5	4.0	6.3	7.5	6.5	3.7	3.5	3.6	4.0	3.9	3.5
30%	3.2	3.4	3.9	5.1	5.4	5.4	3.5	3.5	3.6	4.0	3.7	3.5
40%	3.2	3.3	3.8	4.2	4.6	4.4	3.3	3.4	3.5	3.9	3.7	3.4
50%	3.2	3.3	3.6	4.1	4.0	4.2	3.2	3.3	3.4	3.9	3.6	3.4
60%	3.2	3.3	3.5	3.8	3.5	4.1	3.2	3.1	3.4	3.9	3.6	3.3
70%	3.1	3.2	3.5	3.6	3.4	3.5	3.1	3.1	3.3	3.8	3.6	3.3
80%	3.0	3.0	3.3	3.3	3.3	3.1	3.0	3.1	3.3	3.8	3.5	3.3
90%	3.0	2.9	3.1	3.2	3.0	3.0	2.9	2.8	3.2	3.6	3.4	3.2
Long Term												
Full Simulation Period[a]	3.2	3.7	4.3	4.7	4.9	4.8	3.8	3.5	3.6	3.9	3.7	3.5
Water Year Types[b]												
Wet (31%)	3.5	5.1	6.8	6.1	7.4	7.3	5.4	4.5	4.4	4.2	3.9	4.0
Above Normal (25%)	3.0	3.1	3.7	7.1	6.9	6.0	3.9	3.6	3.4	3.7	3.6	3.4
Below Normal (6%)	3.2	3.2	3.1	4.2	4.8	4.2	3.2	3.4	3.3	3.6	3.5	3.3
Dry (13%)	3.2	3.4	3.6	3.6	3.5	4.1	3.2	3.3	3.6	3.9	3.8	3.4
Critical (25%)	3.2	3.2	3.5	3.5	3.2	3.2	3.0	2.9	3.3	3.8	3.5	3.3

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.0	5.3	7.5	7.2	8.5	7.5	5.8	4.5	4.2	4.7	4.4	4.8
20%	3.8	4.5	4.4	6.4	7.6	6.6	4.1	4.0	4.1	4.5	4.3	4.4
30%	3.7	3.9	4.3	5.5	5.6	5.5	3.9	3.9	4.0	4.5	4.2	4.0
40%	3.7	3.9	4.3	4.5	4.6	4.5	3.7	3.8	3.9	4.5	4.2	4.0
50%	3.6	3.8	4.0	4.4	4.3	4.4	3.7	3.8	3.9	4.4	4.1	3.9
60%	3.5	3.7	4.0	4.2	3.9	4.1	3.6	3.7	3.8	4.4	4.1	3.8
70%	3.5	3.7	3.9	4.1	3.8	3.8	3.6	3.6	3.8	4.3	4.0	3.8
80%	3.5	3.6	3.8	4.0	3.8	3.6	3.5	3.5	3.8	4.2	3.9	3.8
90%	3.5	3.4	3.7	3.7	3.5	3.4	3.4	3.4	3.7	4.1	3.8	3.7
Long Term												
Full Simulation Period[a]	3.7	4.2	4.8	5.0	5.2	5.0	4.2	3.9	4.0	4.4	4.1	4.0
Water Year Types[b]												
Wet (31%)	3.9	5.4	7.1	6.3	7.6	7.3	5.7	4.7	4.6	4.6	4.4	4.7
Above Normal (25%)	3.4	3.6	4.1	7.1	7.2	6.0	4.2	3.9	3.8	4.3	4.2	4.0
Below Normal (6%)	3.6	3.9	3.8	4.6	4.6	4.3	3.7	3.7	3.8	4.1	3.9	3.8
Dry (13%)	3.7	3.9	4.0	4.0	4.0	4.3	3.7	3.8	4.0	4.4	4.2	3.9
Critical (25%)	3.6	3.7	3.9	4.0	3.7	3.6	3.4	3.5	3.8	4.2	3.9	3.7

No Action Alternative (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.4	0.1	0.1	0.1	0.1	**-0.2**	0.1	0.3	0.4	0.6	0.5	0.9
20%	0.5	**0.0**	0.4	0.1	0.0	0.1	0.4	0.5	0.5	0.6	0.4	0.8
30%	0.5	0.5	0.4	0.3	0.2	0.1	0.4	0.4	0.5	0.5	0.5	0.5
40%	0.5	0.5	0.5	0.3	0.1	0.1	0.5	0.4	0.4	0.5	0.5	0.5
50%	0.4	0.5	0.4	0.3	0.3	0.2	0.4	0.4	0.4	0.5	0.5	0.5
60%	0.4	0.5	0.5	0.4	0.4	0.0	0.5	0.6	0.5	0.5	0.5	0.5
70%	0.5	0.5	0.4	0.5	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5
80%	0.5	0.6	0.5	0.6	0.5	0.4	0.5	0.5	0.4	0.4	0.4	0.5
90%	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5
Long Term												
Full Simulation Period[a]	0.5	0.4	0.4	0.3	0.3	0.2	0.4	0.4	0.4	0.5	0.4	0.6
Water Year Types[b]												
Wet (31%)	0.4	0.3	0.3	0.2	0.2	**0.0**	0.2	0.2	0.2	0.4	0.5	0.7
Above Normal (25%)	0.4	0.4	0.5	0.0	0.2	0.1	0.3	0.4	0.4	0.5	0.6	0.7
Below Normal (6%)	0.4	0.7	0.7	0.4	**-0.1**	0.1	0.4	0.4	0.5	0.4	0.4	0.5
Dry (13%)	0.5	0.4	0.5	0.4	0.4	0.2	0.4	0.5	0.5	0.5	0.4	0.5
Critical (25%)	0.5	0.5	0.4	0.5	0.4	0.4	0.5	0.6	0.5	0.4	0.4	0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

Table C-70-1-2. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.6	5.2	7.4	7.1	8.3	7.7	5.7	4.2	3.8	4.2	3.9	3.9
20%	3.3	4.5	4.0	6.3	7.5	6.5	3.7	3.5	3.6	4.0	3.9	3.5
30%	3.2	3.4	3.9	5.1	5.4	5.4	3.5	3.5	3.6	4.0	3.7	3.5
40%	3.2	3.3	3.8	4.2	4.6	4.4	3.3	3.4	3.5	3.9	3.7	3.4
50%	3.2	3.3	3.6	4.1	4.0	4.2	3.2	3.3	3.4	3.9	3.6	3.4
60%	3.2	3.3	3.5	3.8	3.5	4.1	3.2	3.1	3.4	3.9	3.6	3.3
70%	3.1	3.2	3.5	3.6	3.4	3.5	3.1	3.1	3.3	3.8	3.6	3.3
80%	3.0	3.0	3.3	3.3	3.3	3.1	3.0	3.1	3.3	3.8	3.5	3.3
90%	3.0	2.9	3.1	3.2	3.0	3.0	2.9	2.8	3.2	3.6	3.4	3.2
Long Term												
Full Simulation Period[a]	3.2	3.7	4.3	4.7	4.9	4.8	3.8	3.5	3.6	3.9	3.7	3.5
Water Year Types[b]												
Wet (31%)	3.5	5.1	6.8	6.1	7.4	7.3	5.4	4.5	4.4	4.2	3.9	4.0
Above Normal (25%)	3.0	3.1	3.7	7.1	6.9	6.0	3.9	3.6	3.4	3.7	3.6	3.4
Below Normal (6%)	3.2	3.2	3.1	4.2	4.8	4.2	3.2	3.4	3.3	3.6	3.5	3.3
Dry (13%)	3.2	3.4	3.6	3.6	3.5	4.1	3.2	3.3	3.6	3.9	3.8	3.4
Critical (25%)	3.2	3.2	3.5	3.5	3.2	3.2	3.0	2.9	3.3	3.8	3.5	3.3

Alternative 2D (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.9	5.0	6.8	6.4	7.9	6.7	5.5	4.3	4.2	4.6	4.2	4.4
20%	3.7	4.4	4.3	5.9	6.8	6.2	3.9	4.0	4.1	4.4	4.2	4.2
30%	3.6	3.8	4.3	5.1	5.1	5.2	3.8	3.8	4.0	4.3	4.1	3.9
40%	3.6	3.7	4.2	4.3	4.2	4.2	3.6	3.8	3.9	4.3	4.0	3.8
50%	3.6	3.7	4.0	4.3	4.1	4.0	3.6	3.7	3.8	4.3	4.0	3.8
60%	3.6	3.6	3.9	4.1	3.8	3.9	3.5	3.6	3.8	4.2	3.9	3.8
70%	3.5	3.6	3.8	4.0	3.8	3.7	3.5	3.6	3.8	4.1	3.9	3.7
80%	3.5	3.4	3.7	3.8	3.7	3.5	3.4	3.5	3.7	4.0	3.8	3.7
90%	3.5	3.4	3.6	3.7	3.5	3.4	3.3	3.3	3.7	3.9	3.7	3.6
Long Term												
Full Simulation Period[a]	3.6	4.0	4.6	4.7	5.0	4.7	4.0	3.8	4.0	4.2	4.0	3.9
Water Year Types[b]												
Wet (31%)	3.9	5.1	6.6	5.9	7.0	6.6	5.5	4.4	4.4	4.5	4.2	4.5
Above Normal (25%)	3.4	3.5	4.1	6.2	6.9	5.6	3.9	3.8	3.7	4.2	4.0	3.8
Below Normal (6%)	3.6	3.7	3.7	4.5	4.2	4.0	3.5	3.6	3.8	3.9	3.8	3.6
Dry (13%)	3.6	3.7	4.0	3.9	3.8	4.1	3.6	3.8	4.0	4.3	4.0	3.7
Critical (25%)	3.6	3.6	3.8	3.9	3.6	3.5	3.4	3.4	3.7	4.1	3.8	3.7

Alternative 2D (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.3	-0.2	-0.6	-0.7	-0.5	-1.0	-0.2	0.1	0.4	0.4	0.3	0.5
20%	0.4	-0.1	0.3	-0.3	-0.7	-0.4	0.2	0.5	0.5	0.4	0.3	0.7
30%	0.4	0.4	0.4	-0.1	-0.3	-0.3	0.3	0.3	0.4	0.4	0.4	0.4
40%	0.4	0.4	0.4	0.1	-0.3	-0.2	0.3	0.3	0.4	0.3	0.4	0.4
50%	0.4	0.4	0.4	0.2	0.2	-0.2	0.3	0.4	0.4	0.3	0.4	0.4
60%	0.4	0.4	0.4	0.3	0.3	-0.2	0.4	0.5	0.4	0.3	0.4	0.4
70%	0.5	0.4	0.3	0.4	0.4	0.2	0.3	0.4	0.4	0.3	0.3	0.4
80%	0.5	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.2	0.3	0.4
90%	0.5	0.4	0.5	0.5	0.4	0.4	0.4	0.5	0.4	0.3	0.3	0.4
Long Term												
Full Simulation Period[a]	0.4	0.3	0.2	0.1	0.0	-0.1	0.2	0.3	0.3	0.3	0.3	0.4
Water Year Types[b]												
Wet (31%)	0.3	0.0	-0.2	-0.2	-0.5	-0.7	0.0	-0.1	0.0	0.3	0.3	0.5
Above Normal (25%)	0.4	0.3	0.4	-0.9	-0.1	-0.3	0.0	0.2	0.3	0.4	0.4	0.5
Below Normal (6%)	0.4	0.5	0.6	0.3	-0.5	-0.2	0.3	0.3	0.5	0.3	0.3	0.3
Dry (13%)	0.4	0.3	0.4	0.3	0.3	0.0	0.3	0.5	0.5	0.4	0.3	0.3
Critical (25%)	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.5	0.4	0.2	0.3	0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-70-1-3. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.6	5.2	7.4	7.1	8.3	7.7	5.7	4.2	3.8	4.2	3.9	3.9
20%	3.3	4.5	4.0	6.3	7.5	6.5	3.7	3.5	3.6	4.0	3.9	3.5
30%	3.2	3.4	3.9	5.1	5.4	5.4	3.5	3.5	3.6	4.0	3.7	3.5
40%	3.2	3.3	3.8	4.2	4.6	4.4	3.3	3.4	3.5	3.9	3.7	3.4
50%	3.2	3.3	3.6	4.1	4.0	4.2	3.2	3.3	3.4	3.9	3.6	3.4
60%	3.2	3.3	3.5	3.8	3.5	4.1	3.2	3.1	3.4	3.9	3.6	3.3
70%	3.1	3.2	3.5	3.6	3.4	3.5	3.1	3.1	3.3	3.8	3.6	3.3
80%	3.0	3.0	3.3	3.3	3.3	3.1	3.0	3.1	3.3	3.8	3.5	3.3
90%	3.0	2.9	3.1	3.2	3.0	3.0	2.9	2.8	3.2	3.6	3.4	3.2
Long Term												
Full Simulation Period[a]	3.2	3.7	4.3	4.7	4.9	4.8	3.8	3.5	3.6	3.9	3.7	3.5
Water Year Types[b]												
Wet (31%)	3.5	5.1	6.8	6.1	7.4	7.3	5.4	4.5	4.4	4.2	3.9	4.0
Above Normal (25%)	3.0	3.1	3.7	7.1	6.9	6.0	3.9	3.6	3.4	3.7	3.6	3.4
Below Normal (6%)	3.2	3.2	3.1	4.2	4.8	4.2	3.2	3.4	3.3	3.6	3.5	3.3
Dry (13%)	3.2	3.4	3.6	3.6	3.5	4.1	3.2	3.3	3.6	3.9	3.8	3.4
Critical (25%)	3.2	3.2	3.5	3.5	3.2	3.2	3.0	2.9	3.3	3.8	3.5	3.3

Alternative 4A (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.9	5.1	7.2	6.7	8.1	7.2	5.6	4.4	4.3	4.6	4.3	4.5
20%	3.7	4.4	4.4	6.1	7.1	6.3	4.0	3.9	4.2	4.4	4.2	4.3
30%	3.7	3.8	4.3	5.2	5.3	5.2	3.9	3.9	4.1	4.4	4.2	4.0
40%	3.7	3.7	4.3	4.4	4.4	4.3	3.7	3.8	4.0	4.3	4.2	3.9
50%	3.6	3.7	4.0	4.3	4.2	4.1	3.7	3.7	3.9	4.3	4.1	3.8
60%	3.6	3.7	3.9	4.3	3.9	4.0	3.6	3.7	3.9	4.2	4.1	3.8
70%	3.6	3.6	3.8	4.1	3.8	3.8	3.5	3.6	3.8	4.2	4.0	3.8
80%	3.6	3.5	3.7	3.8	3.8	3.6	3.5	3.5	3.8	4.1	3.9	3.7
90%	3.5	3.4	3.6	3.8	3.5	3.4	3.4	3.3	3.7	4.0	3.8	3.6
Long Term												
Full Simulation Period[a]	3.7	4.1	4.7	4.9	5.1	4.8	4.1	3.9	4.0	4.3	4.1	4.0
Water Year Types[b]												
Wet (31%)	3.9	5.2	6.8	5.9	7.2	6.9	5.6	4.5	4.5	4.6	4.4	4.6
Above Normal (25%)	3.4	3.5	4.1	6.7	6.9	5.6	4.1	3.9	3.8	4.2	4.1	3.9
Below Normal (6%)	3.6	3.7	3.8	4.5	4.4	4.1	3.6	3.7	3.9	4.0	3.8	3.6
Dry (13%)	3.6	3.8	4.0	4.0	3.9	4.2	3.7	3.8	4.1	4.3	4.1	3.8
Critical (25%)	3.6	3.7	3.9	4.0	3.6	3.5	3.4	3.5	3.8	4.1	3.9	3.7

Alternative 4A (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.3	**0.0**	**-0.2**	**-0.4**	**-0.3**	**-0.5**	**-0.1**	0.2	0.4	0.4	0.4	0.6
20%	0.4	**-0.1**	0.4	**-0.2**	**-0.4**	**-0.3**	0.3	0.4	0.6	0.4	0.4	0.8
30%	0.4	0.4	0.4	0.1	**0.0**	**-0.3**	0.4	0.4	0.5	0.4	0.5	0.5
40%	0.5	0.4	0.5	0.2	**-0.1**	**-0.1**	0.4	0.4	0.5	0.4	0.5	0.4
50%	0.4	0.4	0.4	0.2	0.2	**-0.1**	0.4	0.4	0.5	0.4	0.5	0.4
60%	0.4	0.4	0.4	0.5	0.4	**-0.1**	0.4	0.5	0.5	0.4	0.5	0.5
70%	0.5	0.5	0.4	0.5	0.4	0.3	0.4	0.4	0.5	0.4	0.4	0.5
80%	0.5	0.5	0.4	0.5	0.4	0.4	0.5	0.4	0.4	0.3	0.3	0.4
90%	0.5	0.5	0.5	0.6	0.5	0.4	0.5	0.5	0.5	0.3	0.4	0.5
Long Term												
Full Simulation Period[a]	0.4	0.3	0.3	0.2	0.1	**0.0**	0.3	0.3	0.4	0.4	0.4	0.5
Water Year Types[b]												
Wet (31%)	0.4	0.2	**0.0**	**-0.1**	**-0.2**	**-0.4**	0.1	**0.0**	0.1	0.4	0.5	0.6
Above Normal (25%)	0.5	0.4	0.4	**-0.4**	**-0.1**	**-0.3**	0.1	0.3	0.4	0.5	0.5	0.6
Below Normal (6%)	0.4	0.5	0.7	0.4	**-0.4**	**-0.1**	0.4	0.3	0.6	0.4	0.3	0.4
Dry (13%)	0.5	0.3	0.4	0.4	0.3	0.1	0.4	0.5	0.5	0.4	0.3	0.4
Critical (25%)	0.5	0.4	0.4	0.5	0.4	0.3	0.4	0.6	0.5	0.3	0.4	0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-70-1-4. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.6	5.2	7.4	7.1	8.3	7.7	5.7	4.2	3.8	4.2	3.9	3.9
20%	3.3	4.5	4.0	6.3	7.5	6.5	3.7	3.5	3.6	4.0	3.9	3.5
30%	3.2	3.4	3.9	5.1	5.4	5.4	3.5	3.5	3.6	4.0	3.7	3.5
40%	3.2	3.3	3.8	4.2	4.6	4.4	3.3	3.4	3.5	3.9	3.7	3.4
50%	3.2	3.3	3.6	4.1	4.0	4.2	3.2	3.3	3.4	3.9	3.6	3.4
60%	3.2	3.3	3.5	3.8	3.5	4.1	3.2	3.1	3.4	3.9	3.6	3.3
70%	3.1	3.2	3.5	3.6	3.4	3.5	3.1	3.1	3.3	3.8	3.6	3.3
80%	3.0	3.0	3.3	3.3	3.3	3.1	3.0	3.1	3.3	3.8	3.5	3.3
90%	3.0	2.9	3.1	3.2	3.0	3.0	2.9	2.8	3.2	3.6	3.4	3.2
Long Term												
Full Simulation Period[a]	3.2	3.7	4.3	4.7	4.9	4.8	3.8	3.5	3.6	3.9	3.7	3.5
Water Year Types[b]												
Wet (31%)	3.5	5.1	6.8	6.1	7.4	7.3	5.4	4.5	4.4	4.2	3.9	4.0
Above Normal (25%)	3.0	3.1	3.7	7.1	6.9	6.0	3.9	3.6	3.4	3.7	3.6	3.4
Below Normal (6%)	3.2	3.2	3.1	4.2	4.8	4.2	3.2	3.4	3.3	3.6	3.5	3.3
Dry (13%)	3.2	3.4	3.6	3.6	3.5	4.1	3.2	3.3	3.6	3.9	3.8	3.4
Critical (25%)	3.2	3.2	3.5	3.5	3.2	3.2	3.0	2.9	3.3	3.8	3.5	3.3

Alternative 5A (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.9	5.1	7.5	7.1	8.4	7.7	5.8	4.4	4.2	4.6	4.3	4.5
20%	3.6	4.4	4.3	6.4	7.6	6.7	4.0	3.9	4.1	4.5	4.1	4.1
30%	3.6	3.8	4.3	5.4	5.5	5.3	3.8	3.8	4.0	4.4	4.1	3.9
40%	3.6	3.7	4.3	4.3	4.5	4.4	3.6	3.8	3.9	4.4	4.1	3.8
50%	3.6	3.7	4.0	4.3	4.2	4.2	3.6	3.7	3.9	4.3	4.0	3.8
60%	3.5	3.7	3.9	4.1	3.8	4.0	3.6	3.6	3.8	4.3	3.9	3.8
70%	3.5	3.6	3.8	4.0	3.7	3.7	3.5	3.5	3.8	4.2	3.9	3.7
80%	3.5	3.4	3.7	3.9	3.7	3.5	3.4	3.5	3.7	4.0	3.8	3.6
90%	3.4	3.4	3.6	3.7	3.5	3.4	3.3	3.3	3.7	3.9	3.7	3.5
Long Term												
Full Simulation Period[a]	3.6	4.0	4.7	4.9	5.2	5.0	4.1	3.9	4.0	4.3	4.0	3.9
Water Year Types[b]												
Wet (31%)	3.8	5.2	7.0	6.2	7.5	7.2	5.7	4.6	4.5	4.5	4.3	4.5
Above Normal (25%)	3.4	3.5	4.1	7.0	7.1	6.0	4.0	3.8	3.7	4.2	4.0	3.9
Below Normal (6%)	3.5	3.7	3.7	4.5	4.5	4.2	3.6	3.6	3.8	4.0	3.7	3.6
Dry (13%)	3.6	3.7	4.0	4.0	3.9	4.2	3.6	3.8	4.0	4.4	4.1	3.7
Critical (25%)	3.6	3.6	3.9	3.9	3.6	3.5	3.4	3.4	3.7	4.0	3.8	3.7

Alternative 5A (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.3	-0.1	0.1	0.0	0.1	-0.1	0.1	0.2	0.3	0.4	0.3	0.6
20%	0.4	-0.1	0.3	0.1	0.0	0.2	0.2	0.4	0.5	0.5	0.3	0.6
30%	0.4	0.3	0.4	0.2	0.1	-0.1	0.3	0.4	0.4	0.5	0.4	0.4
40%	0.4	0.4	0.4	0.1	0.0	-0.1	0.4	0.3	0.4	0.4	0.4	0.4
50%	0.4	0.4	0.4	0.2	0.2	0.0	0.4	0.4	0.4	0.4	0.4	0.4
60%	0.4	0.4	0.4	0.3	0.3	-0.1	0.4	0.5	0.4	0.4	0.4	0.4
70%	0.4	0.4	0.3	0.4	0.4	0.3	0.4	0.4	0.4	0.3	0.3	0.4
80%	0.4	0.4	0.4	0.6	0.4	0.4	0.4	0.4	0.4	0.2	0.3	0.4
90%	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.5	0.4	0.3	0.3	0.4
Long Term												
Full Simulation Period[a]	0.4	0.3	0.4	0.3	0.2	0.1	0.3	0.3	0.3	0.4	0.3	0.4
Water Year Types[b]												
Wet (31%)	0.3	0.1	0.2	0.1	0.1	-0.1	0.3	0.1	0.1	0.3	0.4	0.5
Above Normal (25%)	0.4	0.4	0.4	-0.1	0.2	0.0	0.1	0.3	0.3	0.5	0.4	0.5
Below Normal (6%)	0.3	0.5	0.6	0.3	-0.2	0.0	0.4	0.3	0.5	0.4	0.2	0.3
Dry (13%)	0.4	0.3	0.4	0.4	0.3	0.1	0.4	0.4	0.4	0.5	0.3	0.3
Critical (25%)	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.5	0.5	0.2	0.3	0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-70-1-5. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Maximum Elevation

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.0	5.3	7.5	7.2	8.5	7.5	5.8	4.5	4.2	4.7	4.4	4.8
20%	3.8	4.5	4.4	6.4	7.6	6.6	4.1	4.0	4.1	4.5	4.3	4.4
30%	3.7	3.9	4.3	5.5	5.6	5.5	3.9	3.9	4.0	4.5	4.2	4.0
40%	3.7	3.9	4.3	4.5	4.6	4.5	3.7	3.8	3.9	4.5	4.2	4.0
50%	3.6	3.8	4.0	4.4	4.3	4.4	3.7	3.8	3.9	4.4	4.1	3.9
60%	3.5	3.7	4.0	4.2	3.9	4.1	3.6	3.7	3.8	4.4	4.1	3.8
70%	3.5	3.7	3.9	4.1	3.8	3.8	3.6	3.6	3.8	4.3	4.0	3.8
80%	3.5	3.6	3.8	4.0	3.8	3.6	3.5	3.5	3.8	4.2	3.9	3.8
90%	3.5	3.4	3.7	3.7	3.5	3.4	3.4	3.4	3.7	4.1	3.8	3.7
Long Term												
Full Simulation Period[a]	3.7	4.2	4.8	5.0	5.2	5.0	4.2	3.9	4.0	4.4	4.1	4.0
Water Year Types[b]												
Wet (31%)	3.9	5.4	7.1	6.3	7.6	7.3	5.7	4.7	4.6	4.6	4.4	4.7
Above Normal (25%)	3.4	3.6	4.1	7.1	7.2	6.0	4.2	3.9	3.8	4.3	4.2	4.0
Below Normal (6%)	3.6	3.9	3.8	4.6	4.6	4.3	3.7	3.7	3.8	4.1	3.9	3.8
Dry (13%)	3.7	3.9	4.0	4.0	4.0	4.3	3.7	3.8	4.0	4.4	4.2	3.9
Critical (25%)	3.6	3.7	3.9	4.0	3.7	3.6	3.4	3.5	3.8	4.2	3.9	3.7

Alternative 2D (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.9	5.0	6.8	6.4	7.9	6.7	5.5	4.3	4.2	4.6	4.2	4.4
20%	3.7	4.4	4.3	5.9	6.8	6.2	3.9	4.0	4.1	4.4	4.2	4.2
30%	3.6	3.8	4.3	5.1	5.1	5.2	3.8	3.8	4.0	4.3	4.1	3.9
40%	3.6	3.7	4.2	4.3	4.2	4.2	3.6	3.8	3.9	4.3	4.0	3.8
50%	3.6	3.7	4.0	4.3	4.1	4.0	3.6	3.7	3.8	4.3	4.0	3.8
60%	3.6	3.6	3.9	4.1	3.8	3.9	3.5	3.6	3.8	4.2	3.9	3.8
70%	3.5	3.6	3.8	4.0	3.8	3.7	3.5	3.6	3.8	4.1	3.9	3.7
80%	3.5	3.4	3.7	3.8	3.7	3.5	3.4	3.5	3.7	4.0	3.8	3.7
90%	3.5	3.4	3.6	3.7	3.5	3.4	3.3	3.3	3.7	3.9	3.7	3.6
Long Term												
Full Simulation Period[a]	3.6	4.0	4.6	4.7	5.0	4.7	4.0	3.8	4.0	4.2	4.0	3.9
Water Year Types[b]												
Wet (31%)	3.9	5.1	6.6	5.9	7.0	6.6	5.5	4.4	4.4	4.5	4.2	4.5
Above Normal (25%)	3.4	3.5	4.1	6.2	6.9	5.6	3.9	3.8	3.7	4.2	4.0	3.8
Below Normal (6%)	3.6	3.7	3.7	4.5	4.2	4.0	3.5	3.6	3.8	3.9	3.8	3.6
Dry (13%)	3.6	3.7	4.0	3.9	3.8	4.1	3.6	3.8	4.0	4.3	4.0	3.7
Critical (25%)	3.6	3.6	3.8	3.9	3.6	3.5	3.4	3.4	3.7	4.1	3.8	3.7

Alternative 2D (ELT) minus No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.1	-0.3	-0.7	-0.8	-0.6	-0.8	-0.4	-0.2	0.0	-0.1	-0.2	-0.3
20%	-0.1	0.0	-0.1	-0.5	-0.7	-0.5	-0.2	0.0	0.0	-0.2	-0.1	-0.2
30%	-0.1	-0.1	-0.1	-0.4	-0.5	-0.3	-0.1	-0.1	0.0	-0.1	-0.1	-0.2
40%	-0.1	-0.2	-0.1	-0.2	-0.4	-0.3	-0.1	-0.1	0.0	-0.2	-0.1	-0.2
50%	0.0	-0.2	0.0	-0.2	-0.2	-0.4	-0.1	-0.1	0.0	-0.1	-0.1	-0.1
60%	0.0	-0.1	-0.1	-0.1	-0.1	-0.2	-0.1	-0.1	0.0	-0.2	-0.2	-0.1
70%	0.0	-0.1	-0.1	0.0	-0.1	-0.1	-0.1	0.0	-0.1	-0.2	-0.1	-0.1
80%	0.0	-0.2	-0.1	-0.2	-0.1	-0.1	-0.1	-0.1	-0.1	-0.2	-0.1	-0.1
90%	0.0	-0.1	-0.1	0.0	-0.1	0.0	-0.1	-0.1	0.0	-0.2	-0.1	-0.1
Long Term												
Full Simulation Period[a]	-0.1	-0.2	-0.2	-0.3	-0.3	-0.3	-0.1	-0.1	-0.1	-0.1	-0.1	-0.2
Water Year Types[b]												
Wet (31%)	-0.1	-0.3	-0.5	-0.4	-0.6	-0.6	-0.2	-0.3	-0.2	-0.2	-0.1	-0.3
Above Normal (25%)	0.0	-0.1	-0.1	-0.9	-0.3	-0.4	-0.3	-0.1	0.0	-0.1	-0.1	-0.2
Below Normal (6%)	-0.1	-0.2	-0.1	-0.1	-0.4	-0.3	-0.1	-0.1	0.0	-0.2	-0.1	-0.2
Dry (13%)	-0.1	-0.1	-0.1	-0.1	-0.1	-0.2	-0.1	0.0	0.0	-0.1	-0.1	-0.1
Critical (25%)	0.0	-0.1	0.0	-0.1	0.0	-0.1	-0.1	-0.1	-0.1	-0.2	-0.1	0.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-70-1-6. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Maximum Elevation

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.0	5.3	7.5	7.2	8.5	7.5	5.8	4.5	4.2	4.7	4.4	4.8
20%	3.8	4.5	4.4	6.4	7.6	6.6	4.1	4.0	4.1	4.5	4.3	4.4
30%	3.7	3.9	4.3	5.5	5.6	5.5	3.9	3.9	4.0	4.5	4.2	4.0
40%	3.7	3.9	4.3	4.5	4.6	4.5	3.7	3.8	3.9	4.5	4.2	4.0
50%	3.6	3.8	4.0	4.4	4.3	4.4	3.7	3.8	3.9	4.4	4.1	3.9
60%	3.5	3.7	4.0	4.2	3.9	4.1	3.6	3.7	3.8	4.4	4.1	3.8
70%	3.5	3.7	3.9	4.1	3.8	3.8	3.6	3.6	3.8	4.3	4.0	3.8
80%	3.5	3.6	3.8	4.0	3.8	3.6	3.5	3.5	3.8	4.2	3.9	3.8
90%	3.5	3.4	3.7	3.7	3.5	3.4	3.4	3.4	3.7	4.1	3.8	3.7
Long Term												
Full Simulation Period[a]	3.7	4.2	4.8	5.0	5.2	5.0	4.2	3.9	4.0	4.4	4.1	4.0
Water Year Types[b]												
Wet (31%)	3.9	5.4	7.1	6.3	7.6	7.3	5.7	4.7	4.6	4.6	4.4	4.7
Above Normal (25%)	3.4	3.6	4.1	7.1	7.2	6.0	4.2	3.9	3.8	4.3	4.2	4.0
Below Normal (6%)	3.6	3.9	3.8	4.6	4.6	4.3	3.7	3.7	3.8	4.1	3.9	3.8
Dry (13%)	3.7	3.9	4.0	4.0	4.0	4.3	3.7	3.8	4.0	4.4	4.2	3.9
Critical (25%)	3.6	3.7	3.9	4.0	3.7	3.6	3.4	3.5	3.8	4.2	3.9	3.7

Alternative 4A (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.9	5.1	7.2	6.7	8.1	7.2	5.6	4.4	4.3	4.6	4.3	4.5
20%	3.7	4.4	4.4	6.1	7.1	6.3	4.0	3.9	4.2	4.4	4.2	4.3
30%	3.7	3.8	4.3	5.2	5.3	5.2	3.9	3.9	4.1	4.4	4.2	4.0
40%	3.7	3.7	4.3	4.4	4.4	4.3	3.7	3.8	4.0	4.3	4.2	3.9
50%	3.6	3.7	4.0	4.3	4.2	4.1	3.7	3.7	3.9	4.3	4.1	3.8
60%	3.6	3.7	3.9	4.3	3.9	4.0	3.6	3.7	3.9	4.2	4.1	3.8
70%	3.6	3.6	3.8	4.1	3.8	3.8	3.5	3.6	3.8	4.2	4.0	3.8
80%	3.6	3.5	3.7	3.8	3.8	3.6	3.5	3.5	3.8	4.1	3.9	3.7
90%	3.5	3.4	3.6	3.8	3.5	3.4	3.4	3.3	3.7	4.0	3.8	3.6
Long Term												
Full Simulation Period[a]	3.7	4.1	4.7	4.9	5.1	4.8	4.1	3.9	4.0	4.3	4.1	4.0
Water Year Types[b]												
Wet (31%)	3.9	5.2	6.8	5.9	7.2	6.9	5.6	4.5	4.5	4.6	4.4	4.6
Above Normal (25%)	3.4	3.5	4.1	6.7	6.9	5.6	4.1	3.9	3.8	4.2	4.1	3.9
Below Normal (6%)	3.6	3.7	3.8	4.5	4.4	4.1	3.6	3.7	3.9	4.0	3.8	3.6
Dry (13%)	3.6	3.8	4.0	4.0	3.9	4.2	3.7	3.8	4.1	4.3	4.1	3.8
Critical (25%)	3.6	3.7	3.9	4.0	3.6	3.5	3.4	3.5	3.8	4.1	3.9	3.7

Alternative 4A (ELT) minus No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.1	-0.1	-0.3	-0.5	-0.4	-0.3	-0.3	-0.1	0.0	-0.1	-0.1	-0.2
20%	-0.1	0.0	0.0	-0.4	-0.5	-0.4	0.0	0.0	0.1	-0.1	0.0	0.0
30%	0.0	-0.1	0.0	-0.2	-0.3	-0.3	0.0	0.0	0.0	-0.1	0.0	-0.1
40%	0.0	-0.1	0.0	-0.1	-0.2	-0.2	0.0	0.0	0.1	-0.1	0.0	-0.1
50%	0.0	-0.1	0.0	-0.1	-0.1	-0.3	0.0	0.0	0.1	-0.1	0.0	0.0
60%	0.0	0.0	0.0	0.1	0.0	-0.1	-0.1	0.0	0.0	-0.1	0.0	0.0
70%	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	-0.1	-0.1	0.0
80%	0.1	-0.2	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	-0.1
90%	0.0	0.0	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	-0.1
Long Term												
Full Simulation Period[a]	0.0	-0.1	-0.1	-0.1	-0.2	-0.2	-0.1	-0.1	0.0	-0.1	0.0	-0.1
Water Year Types[b]												
Wet (31%)	0.0	-0.1	-0.3	-0.4	-0.4	-0.4	-0.1	-0.2	-0.1	-0.1	0.0	-0.2
Above Normal (25%)	0.0	-0.1	0.0	-0.4	-0.3	-0.4	-0.1	0.0	0.0	-0.1	0.0	-0.1
Below Normal (6%)	-0.1	-0.2	0.0	0.0	-0.2	-0.2	0.0	0.0	0.1	-0.1	-0.1	-0.1
Dry (13%)	0.0	-0.1	0.0	0.0	-0.1	-0.1	0.0	0.0	0.0	-0.1	-0.1	-0.1
Critical (25%)	0.0	-0.1	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	-0.1	0.0	0.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-70-1-7. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Maximum Elevation

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4.0	5.3	7.5	7.2	8.5	7.5	5.8	4.5	4.2	4.7	4.4	4.8
20%	3.8	4.5	4.4	6.4	7.6	6.6	4.1	4.0	4.1	4.5	4.3	4.4
30%	3.7	3.9	4.3	5.5	5.6	5.5	3.9	3.9	4.0	4.5	4.2	4.0
40%	3.7	3.9	4.3	4.5	4.6	4.5	3.7	3.8	3.9	4.5	4.2	4.0
50%	3.6	3.8	4.0	4.4	4.3	4.4	3.7	3.8	3.9	4.4	4.1	3.9
60%	3.5	3.7	4.0	4.2	3.9	4.1	3.6	3.7	3.8	4.4	4.1	3.8
70%	3.5	3.7	3.9	4.1	3.8	3.8	3.6	3.6	3.8	4.3	4.0	3.8
80%	3.5	3.6	3.8	4.0	3.8	3.6	3.5	3.5	3.8	4.2	3.9	3.8
90%	3.5	3.4	3.7	3.7	3.5	3.4	3.4	3.4	3.7	4.1	3.8	3.7
Long Term												
Full Simulation Period[a]	3.7	4.2	4.8	5.0	5.2	5.0	4.2	3.9	4.0	4.4	4.1	4.0
Water Year Types[b]												
Wet (31%)	3.9	5.4	7.1	6.3	7.6	7.3	5.7	4.7	4.6	4.6	4.4	4.7
Above Normal (25%)	3.4	3.6	4.1	7.1	7.2	6.0	4.2	3.9	3.8	4.3	4.2	4.0
Below Normal (6%)	3.6	3.9	3.8	4.6	4.6	4.3	3.7	3.7	3.8	4.1	3.9	3.8
Dry (13%)	3.7	3.9	4.0	4.0	4.0	4.3	3.7	3.8	4.0	4.4	4.2	3.9
Critical (25%)	3.6	3.7	3.9	4.0	3.7	3.6	3.4	3.5	3.8	4.2	3.9	3.7

Alternative 5A (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.9	5.1	7.5	7.1	8.4	7.7	5.8	4.4	4.2	4.6	4.3	4.5
20%	3.6	4.4	4.3	6.4	7.6	6.7	4.0	3.9	4.1	4.5	4.1	4.1
30%	3.6	3.8	4.3	5.4	5.5	5.3	3.8	3.8	4.0	4.4	4.1	3.9
40%	3.6	3.7	4.3	4.3	4.5	4.4	3.6	3.8	3.9	4.4	4.1	3.8
50%	3.6	3.7	4.0	4.3	4.2	4.2	3.6	3.7	3.9	4.3	4.0	3.8
60%	3.5	3.7	3.9	4.1	3.8	4.0	3.6	3.6	3.8	4.3	3.9	3.8
70%	3.5	3.6	3.8	4.0	3.7	3.7	3.5	3.5	3.8	4.2	3.9	3.7
80%	3.5	3.4	3.7	3.9	3.7	3.5	3.4	3.5	3.7	4.0	3.8	3.6
90%	3.4	3.4	3.6	3.7	3.5	3.4	3.3	3.3	3.7	3.9	3.7	3.5
Long Term												
Full Simulation Period[a]	3.6	4.0	4.7	4.9	5.2	5.0	4.1	3.9	4.0	4.3	4.0	3.9
Water Year Types[b]												
Wet (31%)	3.8	5.2	7.0	6.2	7.5	7.2	5.7	4.6	4.5	4.5	4.3	4.5
Above Normal (25%)	3.4	3.5	4.1	7.0	7.1	6.0	4.0	3.8	3.7	4.2	4.0	3.9
Below Normal (6%)	3.5	3.7	3.7	4.5	4.5	4.2	3.6	3.6	3.8	4.0	3.7	3.6
Dry (13%)	3.6	3.7	4.0	4.0	3.9	4.2	3.6	3.8	4.0	4.4	4.1	3.7
Critical (25%)	3.6	3.6	3.9	3.9	3.6	3.5	3.4	3.4	3.7	4.0	3.8	3.7

Alternative 5A (ELT) minus No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.1	-0.2	0.0	-0.1	0.0	0.1	0.0	-0.1	-0.1	-0.1	-0.1	-0.3
20%	-0.1	-0.1	-0.1	0.0	0.0	0.0	-0.1	-0.1	0.0	-0.1	-0.1	-0.2
30%	-0.1	-0.2	-0.1	-0.1	-0.1	-0.2	-0.1	-0.1	-0.1	0.0	-0.1	-0.2
40%	-0.1	-0.2	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	-0.1	-0.1	-0.2
50%	0.0	-0.2	-0.1	-0.1	-0.1	-0.2	-0.1	-0.1	0.0	-0.1	-0.1	-0.1
60%	0.0	-0.1	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	-0.1	-0.2	-0.1
70%	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	-0.2	-0.1	-0.1
80%	0.0	-0.2	0.0	0.0	-0.1	-0.1	-0.1	0.0	-0.1	-0.2	-0.1	-0.1
90%	0.0	-0.1	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	-0.2	-0.1	-0.1
Long Term												
Full Simulation Period[a]	-0.1	-0.1	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
Water Year Types[b]												
Wet (31%)	-0.1	-0.2	-0.1	-0.1	-0.1	-0.1	0.0	-0.1	-0.1	-0.1	-0.1	-0.3
Above Normal (25%)	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.2	-0.1	-0.1	-0.1	-0.2	-0.2
Below Normal (6%)	-0.1	-0.2	0.0	-0.1	-0.1	-0.2	-0.1	-0.1	0.0	-0.1	-0.2	-0.2
Dry (13%)	-0.1	-0.1	-0.1	0.0	-0.1	-0.1	-0.1	0.0	0.0	-0.1	-0.1	-0.1
Critical (25%)	-0.1	-0.1	0.0	-0.1	-0.1	-0.1	0.0	0.0	0.0	-0.2	-0.1	0.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-70-2-1. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.1	3.1	6.2	5.9	7.4	6.8	4.3	1.9	0.6	0.9	0.6	0.8
20%	0.3	2.3	1.6	4.7	6.6	5.3	1.3	0.6	0.2	0.7	0.5	0.4
30%	0.2	0.5	1.1	3.2	3.5	3.9	1.0	0.5	0.2	0.7	0.4	0.3
40%	0.1	0.3	0.7	1.6	2.7	2.8	0.6	0.5	0.2	0.6	0.4	0.3
50%	0.1	0.1	0.7	1.5	1.6	2.2	0.5	0.4	0.1	0.6	0.4	0.3
60%	0.1	0.1	0.5	1.0	0.6	2.0	0.4	0.2	0.1	0.6	0.4	0.2
70%	0.0	0.0	0.3	0.6	0.6	1.1	0.4	0.1	0.0	0.5	0.3	0.2
80%	0.0	-0.1	0.3	0.4	0.5	0.5	0.2	0.0	-0.1	0.4	0.2	0.1
90%	-0.1	-0.2	-0.1	0.2	0.2	0.2	0.1	-0.1	-0.1	0.4	0.2	0.1
Long Term												
Full Simulation Period[a]	0.3	0.9	1.7	2.3	2.8	3.0	1.4	0.8	0.4	0.7	0.4	0.4
Water Year Types[b]												
Wet (31%)	0.8	2.8	5.2	4.4	6.3	6.3	3.6	2.2	1.6	1.1	0.6	1.1
Above Normal (25%)	0.0	0.3	1.0	5.8	5.5	4.7	1.9	0.9	0.2	0.5	0.4	0.3
Below Normal (6%)	0.3	0.1	0.0	1.6	2.7	2.3	0.6	0.6	0.2	0.6	0.4	0.2
Dry (13%)	0.1	0.5	0.6	0.7	0.9	2.0	0.6	0.3	0.1	0.6	0.5	0.2
Critical (25%)	0.2	0.1	0.4	0.7	0.4	0.6	0.2	-0.1	-0.1	0.5	0.2	0.1

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.1	2.9	6.2	5.8	7.4	6.4	4.2	1.9	0.8	1.4	1.0	2.0
20%	0.8	1.8	1.6	4.7	6.5	5.3	1.5	0.9	0.5	1.3	0.9	1.5
30%	0.6	0.9	1.4	3.3	3.7	3.8	1.3	0.8	0.5	1.1	0.9	1.0
40%	0.6	0.8	1.1	1.8	2.3	2.5	1.0	0.8	0.5	1.0	0.8	0.7
50%	0.5	0.6	1.0	1.7	1.7	2.2	0.8	0.7	0.5	1.0	0.8	0.6
60%	0.5	0.5	0.8	1.3	1.0	1.6	0.7	0.6	0.4	0.9	0.8	0.6
70%	0.4	0.5	0.6	1.0	0.9	1.2	0.7	0.5	0.3	0.9	0.6	0.6
80%	0.3	0.4	0.6	0.8	0.8	0.7	0.6	0.4	0.3	0.8	0.6	0.5
90%	0.3	0.2	0.4	0.6	0.5	0.6	0.5	0.3	0.3	0.6	0.5	0.5
Long Term												
Full Simulation Period[a]	0.6	1.2	2.0	2.5	3.0	3.0	1.6	1.0	0.7	1.0	0.8	1.0
Water Year Types[b]												
Wet (31%)	0.9	3.0	5.4	4.5	6.4	6.1	3.8	2.2	1.5	1.3	0.9	2.0
Above Normal (25%)	0.4	0.5	1.3	5.6	5.7	4.6	1.9	1.0	0.4	1.0	0.9	1.0
Below Normal (6%)	0.6	0.8	0.6	1.8	2.3	2.1	1.0	0.8	0.5	0.8	0.7	0.6
Dry (13%)	0.5	0.8	0.9	1.0	1.2	1.9	0.9	0.7	0.5	1.0	0.8	0.6
Critical (25%)	0.5	0.5	0.7	1.0	0.7	0.9	0.6	0.4	0.3	0.8	0.5	0.5

No Action Alternative (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.0	**-0.2**	**0.0**	**-0.1**	0.0	**-0.4**	**-0.1**	0.0	0.2	0.5	0.3	1.1
20%	0.5	**-0.4**	0.1	0.0	**-0.1**	**0.0**	0.2	0.3	0.3	0.6	0.4	1.1
30%	0.4	0.4	0.3	0.1	0.2	**-0.1**	0.3	0.3	0.3	0.4	0.4	0.7
40%	0.4	0.5	0.4	0.2	**-0.4**	**-0.3**	0.3	0.3	0.3	0.4	0.4	0.4
50%	0.4	0.5	0.3	0.1	0.1	**0.0**	0.3	0.3	0.3	0.4	0.4	0.4
60%	0.4	0.4	0.4	0.3	0.3	**-0.4**	0.3	0.4	0.3	0.3	0.4	0.4
70%	0.4	0.4	0.2	0.4	0.3	0.1	0.3	0.4	0.3	0.4	0.3	0.4
80%	0.3	0.5	0.3	0.4	0.3	0.2	0.4	0.4	0.4	0.5	0.3	0.4
90%	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.4
Long Term												
Full Simulation Period[a]	0.3	0.3	0.3	0.2	0.2	0.0	0.2	0.3	0.2	0.3	0.3	0.6
Water Year Types[b]												
Wet (31%)	0.2	0.1	0.2	0.0	0.1	**-0.2**	0.1	0.0	**-0.1**	0.2	0.3	0.9
Above Normal (25%)	0.3	0.3	0.3	**-0.2**	0.1	**-0.1**	0.0	0.1	0.2	0.5	0.5	0.7
Below Normal (6%)	0.3	0.7	0.6	0.2	**-0.4**	**-0.1**	0.3	0.1	0.4	0.2	0.2	0.4
Dry (13%)	0.4	0.3	0.3	0.3	0.2	**0.0**	0.3	0.4	0.4	0.4	0.3	0.4
Critical (25%)	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

Table C-70-2-2. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.1	3.1	6.2	5.9	7.4	6.8	4.3	1.9	0.6	0.9	0.6	0.8
20%	0.3	2.3	1.6	4.7	6.6	5.3	1.3	0.6	0.2	0.7	0.5	0.4
30%	0.2	0.5	1.1	3.2	3.5	3.9	1.0	0.5	0.2	0.7	0.4	0.3
40%	0.1	0.3	0.7	1.6	2.7	2.8	0.6	0.5	0.2	0.6	0.4	0.3
50%	0.1	0.1	0.7	1.5	1.6	2.2	0.5	0.4	0.1	0.6	0.4	0.3
60%	0.1	0.1	0.5	1.0	0.6	2.0	0.4	0.2	0.1	0.6	0.4	0.2
70%	0.0	0.0	0.3	0.6	0.6	1.1	0.4	0.1	0.0	0.5	0.3	0.2
80%	0.0	-0.1	0.3	0.4	0.5	0.5	0.2	0.0	-0.1	0.4	0.2	0.1
90%	-0.1	-0.2	-0.1	0.2	0.2	0.2	0.1	-0.1	-0.1	0.4	0.2	0.1
Long Term												
Full Simulation Period[a]	0.3	0.9	1.7	2.3	2.8	3.0	1.4	0.8	0.4	0.7	0.4	0.4
Water Year Types[b]												
Wet (31%)	0.8	2.8	5.2	4.4	6.3	6.3	3.6	2.2	1.6	1.1	0.6	1.1
Above Normal (25%)	0.0	0.3	1.0	5.8	5.5	4.7	1.9	0.9	0.2	0.5	0.4	0.3
Below Normal (6%)	0.3	0.1	0.0	1.6	2.7	2.3	0.6	0.6	0.2	0.6	0.4	0.2
Dry (13%)	0.1	0.5	0.6	0.7	0.9	2.0	0.6	0.3	0.1	0.6	0.5	0.2
Critical (25%)	0.2	0.1	0.4	0.7	0.4	0.6	0.2	-0.1	-0.1	0.5	0.2	0.1

Alternative 2D (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.5	2.1	5.1	4.7	6.5	5.3	3.4	1.1	0.6	1.3	0.8	0.9
20%	0.4	1.4	1.3	4.0	5.5	4.3	1.2	0.8	0.6	1.2	0.7	0.8
30%	0.4	0.5	1.2	2.6	2.8	3.2	1.0	0.8	0.5	1.0	0.7	0.6
40%	0.3	0.4	0.9	1.3	1.7	1.7	0.9	0.8	0.5	0.9	0.6	0.5
50%	0.3	0.4	0.7	1.2	1.2	1.5	0.8	0.7	0.4	0.9	0.6	0.5
60%	0.2	0.3	0.7	1.0	0.8	1.4	0.7	0.7	0.3	0.8	0.6	0.5
70%	0.2	0.2	0.6	0.8	0.7	1.0	0.7	0.5	0.3	0.6	0.5	0.4
80%	0.2	0.1	0.4	0.7	0.7	0.7	0.6	0.4	0.3	0.6	0.4	0.4
90%	0.1	0.1	0.3	0.6	0.5	0.6	0.5	0.3	0.2	0.4	0.4	0.3
Long Term												
Full Simulation Period[a]	0.3	0.8	1.7	2.0	2.5	2.5	1.4	0.8	0.5	0.8	0.6	0.6
Water Year Types[b]												
Wet (31%)	0.4	2.2	4.6	3.7	5.4	5.0	3.2	1.6	0.9	1.0	0.5	0.9
Above Normal (25%)	0.3	0.2	1.1	4.5	4.9	3.8	1.3	0.8	0.4	1.1	0.6	0.4
Below Normal (6%)	0.4	0.1	0.4	1.5	1.7	1.4	1.0	0.8	0.5	0.0	0.2	0.4
Dry (13%)	0.2	0.5	0.7	0.8	0.9	1.6	0.8	0.7	0.5	1.1	0.7	0.4
Critical (25%)	0.3	0.4	0.6	0.9	0.6	0.8	0.6	0.4	0.3	0.6	0.6	0.5

Alternative 2D (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.6	-1.0	-1.1	-1.2	-0.9	-1.5	-0.9	-0.9	0.0	0.4	0.1	0.1
20%	0.2	-0.9	-0.3	-0.7	-1.1	-1.0	-0.2	0.2	0.4	0.5	0.2	0.4
30%	0.1	0.0	0.1	-0.6	-0.6	-0.7	-0.1	0.3	0.3	0.3	0.2	0.3
40%	0.2	0.2	0.1	-0.3	-1.1	-1.1	0.2	0.3	0.3	0.3	0.2	0.2
50%	0.2	0.3	0.1	-0.3	-0.4	-0.7	0.3	0.4	0.2	0.3	0.2	0.2
60%	0.2	0.2	0.2	-0.1	0.1	-0.6	0.3	0.5	0.3	0.2	0.2	0.3
70%	0.2	0.2	0.3	0.2	0.1	-0.1	0.3	0.4	0.3	0.1	0.2	0.2
80%	0.2	0.2	0.2	0.3	0.2	0.2	0.4	0.4	0.4	0.2	0.1	0.3
90%	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.0	0.2	0.2
Long Term												
Full Simulation Period[a]	0.0	-0.1	0.0	-0.3	-0.3	-0.5	0.0	0.1	0.1	0.2	0.2	0.1
Water Year Types[b]												
Wet (31%)	-0.4	-0.7	-0.6	-0.8	-0.9	-1.2	-0.4	-0.7	-0.6	-0.1	-0.1	-0.2
Above Normal (25%)	0.3	-0.1	0.1	-1.3	-0.6	-0.9	-0.6	-0.1	0.2	0.6	0.2	0.1
Below Normal (6%)	0.1	0.0	0.4	-0.1	-1.1	-0.8	0.3	0.2	0.3	-0.5	-0.2	0.2
Dry (13%)	0.1	-0.1	0.1	0.0	-0.1	-0.4	0.2	0.4	0.4	0.5	0.2	0.2
Critical (25%)	0.1	0.3	0.2	0.2	0.2	0.2	0.4	0.5	0.4	0.1	0.3	0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-70-2-3. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.1	3.1	6.2	5.9	7.4	6.8	4.3	1.9	0.6	0.9	0.6	0.8
20%	0.3	2.3	1.6	4.7	6.6	5.3	1.3	0.6	0.2	0.7	0.5	0.4
30%	0.2	0.5	1.1	3.2	3.5	3.9	1.0	0.5	0.2	0.7	0.4	0.3
40%	0.1	0.3	0.7	1.6	2.7	2.8	0.6	0.5	0.2	0.6	0.4	0.3
50%	0.1	0.1	0.7	1.5	1.6	2.2	0.5	0.4	0.1	0.6	0.4	0.3
60%	0.1	0.1	0.5	1.0	0.6	2.0	0.4	0.2	0.1	0.6	0.4	0.2
70%	0.0	0.0	0.3	0.6	0.6	1.1	0.4	0.1	0.0	0.5	0.3	0.2
80%	0.0	-0.1	0.3	0.4	0.5	0.5	0.2	0.0	-0.1	0.4	0.2	0.1
90%	-0.1	-0.2	-0.1	0.2	0.2	0.2	0.1	-0.1	-0.1	0.4	0.2	0.1
Long Term												
Full Simulation Period[a]	0.3	0.9	1.7	2.3	2.8	3.0	1.4	0.8	0.4	0.7	0.4	0.4
Water Year Types[b]												
Wet (31%)	0.8	2.8	5.2	4.4	6.3	6.3	3.6	2.2	1.6	1.1	0.6	1.1
Above Normal (25%)	0.0	0.3	1.0	5.8	5.5	4.7	1.9	0.9	0.2	0.5	0.4	0.3
Below Normal (6%)	0.3	0.1	0.0	1.6	2.7	2.3	0.6	0.6	0.2	0.6	0.4	0.2
Dry (13%)	0.1	0.5	0.6	0.7	0.9	2.0	0.6	0.3	0.1	0.6	0.5	0.2
Critical (25%)	0.2	0.1	0.4	0.7	0.4	0.6	0.2	-0.1	-0.1	0.5	0.2	0.1

Alternative 4A (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.6	2.4	5.6	5.2	7.0	6.0	3.8	1.6	0.6	0.8	0.7	1.3
20%	0.4	1.4	1.3	4.1	5.9	4.7	1.5	0.9	0.5	0.6	0.7	1.3
30%	0.3	0.5	1.2	2.9	3.2	3.4	1.3	0.9	0.4	0.6	0.7	0.7
40%	0.3	0.5	1.0	1.5	1.9	1.9	1.0	0.7	0.4	0.5	0.6	0.7
50%	0.3	0.4	0.8	1.5	1.4	1.7	0.8	0.7	0.3	0.5	0.5	0.6
60%	0.3	0.3	0.7	1.3	0.9	1.4	0.7	0.6	0.3	0.5	0.5	0.5
70%	0.2	0.2	0.6	0.9	0.8	1.0	0.7	0.5	0.3	0.5	0.5	0.4
80%	0.2	0.2	0.4	0.7	0.7	0.7	0.6	0.4	0.3	0.4	0.4	0.4
90%	0.2	0.1	0.3	0.6	0.5	0.6	0.5	0.3	0.3	0.4	0.3	0.3
Long Term												
Full Simulation Period[a]	0.4	0.9	1.8	2.2	2.7	2.6	1.6	0.9	0.5	0.6	0.5	0.7
Water Year Types[b]												
Wet (31%)	0.5	2.5	4.9	4.0	5.9	5.5	3.6	1.9	1.2	0.7	0.6	1.3
Above Normal (25%)	0.3	0.2	1.1	5.0	5.2	4.0	1.8	0.9	0.3	0.6	0.6	0.7
Below Normal (6%)	0.3	0.3	0.4	1.6	1.9	1.6	1.0	0.7	0.3	0.3	0.2	0.4
Dry (13%)	0.2	0.5	0.7	0.8	1.0	1.7	0.9	0.7	0.4	0.5	0.5	0.4
Critical (25%)	0.3	0.4	0.6	1.0	0.6	0.8	0.6	0.4	0.3	0.5	0.6	0.5

Alternative 4A (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.5	-0.7	-0.6	-0.6	-0.4	-0.8	-0.5	-0.3	-0.1	-0.1	0.1	0.4
20%	0.2	-0.8	-0.2	-0.6	-0.7	-0.6	0.2	0.3	0.3	-0.1	0.2	0.9
30%	0.1	0.0	0.1	-0.3	-0.3	-0.6	0.3	0.3	0.3	-0.1	0.2	0.3
40%	0.2	0.2	0.2	-0.1	-0.8	-0.9	0.3	0.3	0.2	-0.1	0.2	0.3
50%	0.2	0.3	0.1	0.0	-0.2	-0.5	0.3	0.3	0.2	-0.1	0.1	0.3
60%	0.2	0.2	0.3	0.3	0.2	-0.6	0.3	0.4	0.2	-0.1	0.1	0.3
70%	0.2	0.2	0.2	0.3	0.2	-0.1	0.3	0.4	0.3	0.0	0.1	0.3
80%	0.2	0.2	0.2	0.3	0.2	0.2	0.4	0.4	0.4	0.0	0.2	0.2
90%	0.3	0.2	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.0	0.2	0.2
Long Term												
Full Simulation Period[a]	0.1	0.0	0.1	-0.1	-0.1	-0.3	0.2	0.2	0.1	-0.1	0.1	0.3
Water Year Types[b]												
Wet (31%)	-0.2	-0.4	-0.3	-0.4	-0.4	-0.7	-0.1	-0.3	-0.4	-0.4	0.0	0.2
Above Normal (25%)	0.3	0.0	0.2	-0.8	-0.3	-0.7	-0.1	0.0	0.1	0.1	0.1	0.4
Below Normal (6%)	0.0	0.2	0.4	0.0	-0.8	-0.7	0.3	0.1	0.1	-0.3	-0.2	0.2
Dry (13%)	0.2	0.0	0.1	0.1	0.0	-0.3	0.3	0.4	0.3	-0.1	0.1	0.1
Critical (25%)	0.2	0.3	0.2	0.3	0.2	0.2	0.4	0.5	0.4	0.1	0.4	0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-70-2-4. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.1	3.1	6.2	5.9	7.4	6.8	4.3	1.9	0.6	0.9	0.6	0.8
20%	0.3	2.3	1.6	4.7	6.6	5.3	1.3	0.6	0.2	0.7	0.5	0.4
30%	0.2	0.5	1.1	3.2	3.5	3.9	1.0	0.5	0.2	0.7	0.4	0.3
40%	0.1	0.3	0.7	1.6	2.7	2.8	0.6	0.5	0.2	0.6	0.4	0.3
50%	0.1	0.1	0.7	1.5	1.6	2.2	0.5	0.4	0.1	0.6	0.4	0.3
60%	0.1	0.1	0.5	1.0	0.6	2.0	0.4	0.2	0.1	0.6	0.4	0.2
70%	0.0	0.0	0.3	0.6	0.6	1.1	0.4	0.1	0.0	0.5	0.3	0.2
80%	0.0	-0.1	0.3	0.4	0.5	0.5	0.2	0.0	-0.1	0.4	0.2	0.1
90%	-0.1	-0.2	-0.1	0.2	0.2	0.2	0.1	-0.1	-0.1	0.4	0.2	0.1
Long Term												
Full Simulation Period[a]	0.3	0.9	1.7	2.3	2.8	3.0	1.4	0.8	0.4	0.7	0.4	0.4
Water Year Types[b]												
Wet (31%)	0.8	2.8	5.2	4.4	6.3	6.3	3.6	2.2	1.6	1.1	0.6	1.1
Above Normal (25%)	0.0	0.3	1.0	5.8	5.5	4.7	1.9	0.9	0.2	0.5	0.4	0.3
Below Normal (6%)	0.3	0.1	0.0	1.6	2.7	2.3	0.6	0.6	0.2	0.6	0.4	0.2
Dry (13%)	0.1	0.5	0.6	0.7	0.9	2.0	0.6	0.3	0.1	0.6	0.5	0.2
Critical (25%)	0.2	0.1	0.4	0.7	0.4	0.6	0.2	-0.1	-0.1	0.5	0.2	0.1

Alternative 5A (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.9	2.6	6.1	5.7	7.4	6.6	4.2	1.7	0.7	1.2	0.9	1.4
20%	0.5	1.7	1.5	4.7	6.5	5.3	1.2	0.9	0.6	1.1	0.8	1.0
30%	0.5	0.6	1.4	3.2	3.5	3.6	1.1	0.8	0.5	1.1	0.7	0.8
40%	0.5	0.5	1.0	1.6	2.2	2.2	0.9	0.7	0.5	1.0	0.7	0.7
50%	0.4	0.5	0.9	1.5	1.6	2.0	0.8	0.6	0.4	0.9	0.7	0.6
60%	0.4	0.5	0.8	1.2	0.9	1.5	0.7	0.6	0.3	0.9	0.6	0.5
70%	0.4	0.3	0.6	1.0	0.8	1.1	0.7	0.5	0.3	0.7	0.6	0.5
80%	0.3	0.3	0.6	0.8	0.8	0.7	0.6	0.4	0.3	0.5	0.5	0.5
90%	0.3	0.2	0.4	0.7	0.5	0.6	0.5	0.3	0.3	0.4	0.5	0.4
Long Term												
Full Simulation Period[a]	0.5	1.1	2.0	2.5	2.9	2.9	1.6	1.0	0.6	0.9	0.7	0.7
Water Year Types[b]												
Wet (31%)	0.8	2.7	5.3	4.4	6.3	6.0	3.8	2.0	1.4	1.1	0.8	1.4
Above Normal (25%)	0.3	0.4	1.2	5.5	5.6	4.5	1.6	0.8	0.4	1.0	0.7	0.8
Below Normal (6%)	0.5	0.5	0.6	1.8	2.2	1.9	0.9	0.7	0.6	0.7	0.4	0.4
Dry (13%)	0.4	0.7	0.9	1.0	1.1	1.8	0.8	0.7	0.5	1.0	0.7	0.5
Critical (25%)	0.5	0.4	0.7	1.0	0.7	0.9	0.6	0.4	0.3	0.6	0.5	0.5

Alternative 5A (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.2	-0.5	-0.1	-0.1	0.0	-0.2	-0.1	-0.2	0.1	0.3	0.3	0.6
20%	0.3	-0.6	0.0	0.0	-0.1	0.0	-0.1	0.3	0.4	0.4	0.3	0.6
30%	0.3	0.1	0.3	0.0	0.0	-0.3	0.1	0.3	0.3	0.4	0.3	0.4
40%	0.3	0.2	0.3	0.0	-0.5	-0.6	0.3	0.2	0.3	0.4	0.2	0.3
50%	0.3	0.4	0.2	0.0	-0.1	-0.3	0.3	0.3	0.3	0.3	0.2	0.3
60%	0.3	0.4	0.3	0.2	0.3	-0.5	0.3	0.3	0.3	0.3	0.2	0.3
70%	0.3	0.3	0.2	0.4	0.2	0.0	0.3	0.3	0.3	0.2	0.2	0.3
80%	0.3	0.3	0.3	0.4	0.3	0.2	0.4	0.4	0.4	0.1	0.3	0.4
90%	0.3	0.4	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.1	0.3	0.3
Long Term												
Full Simulation Period[a]	0.2	0.1	0.2	0.1	0.1	-0.1	0.2	0.2	0.2	0.2	0.2	0.3
Water Year Types[b]												
Wet (31%)	0.0	-0.1	0.1	-0.1	0.0	-0.3	0.2	-0.2	-0.2	0.0	0.2	0.3
Above Normal (25%)	0.3	0.2	0.3	-0.3	0.1	-0.2	-0.2	0.0	0.1	0.5	0.3	0.4
Below Normal (6%)	0.2	0.4	0.6	0.2	-0.5	-0.4	0.3	0.1	0.4	0.1	0.0	0.2
Dry (13%)	0.3	0.1	0.3	0.3	0.2	-0.2	0.2	0.4	0.4	0.4	0.2	0.2
Critical (25%)	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.4	0.1	0.3	0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-70-2-5. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Minimum Elevation

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.1	2.9	6.2	5.8	7.4	6.4	4.2	1.9	0.8	1.4	1.0	2.0
20%	0.8	1.8	1.6	4.7	6.5	5.3	1.5	0.9	0.5	1.3	0.9	1.5
30%	0.6	0.9	1.4	3.3	3.7	3.8	1.3	0.8	0.5	1.1	0.9	1.0
40%	0.6	0.8	1.1	1.8	2.3	2.5	1.0	0.8	0.5	1.0	0.8	0.7
50%	0.5	0.6	1.0	1.7	1.7	2.2	0.8	0.7	0.5	1.0	0.8	0.6
60%	0.5	0.5	0.8	1.3	1.0	1.6	0.7	0.6	0.4	0.9	0.8	0.6
70%	0.4	0.5	0.6	1.0	0.9	1.2	0.7	0.5	0.3	0.9	0.6	0.6
80%	0.3	0.4	0.6	0.8	0.8	0.7	0.6	0.4	0.3	0.8	0.6	0.5
90%	0.3	0.2	0.4	0.6	0.5	0.6	0.5	0.3	0.3	0.6	0.5	0.5
Long Term												
Full Simulation Period[a]	0.6	1.2	2.0	2.5	3.0	3.0	1.6	1.0	0.7	1.0	0.8	1.0
Water Year Types[b]												
Wet (31%)	0.9	3.0	5.4	4.5	6.4	6.1	3.8	2.2	1.5	1.3	0.9	2.0
Above Normal (25%)	0.4	0.5	1.3	5.6	5.7	4.6	1.9	1.0	0.4	1.0	0.9	1.0
Below Normal (6%)	0.6	0.8	0.6	1.8	2.3	2.1	1.0	0.8	0.5	0.8	0.7	0.6
Dry (13%)	0.5	0.8	0.9	1.0	1.2	1.9	0.9	0.7	0.5	1.0	0.8	0.6
Critical (25%)	0.5	0.5	0.7	1.0	0.7	0.9	0.6	0.4	0.3	0.8	0.5	0.5

Alternative 2D (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.5	2.1	5.1	4.7	6.5	5.3	3.4	1.1	0.6	1.3	0.8	0.9
20%	0.4	1.4	1.3	4.0	5.5	4.3	1.2	0.8	0.6	1.2	0.7	0.8
30%	0.4	0.5	1.2	2.6	2.8	3.2	1.0	0.8	0.5	1.0	0.7	0.6
40%	0.3	0.4	0.9	1.3	1.7	1.7	0.9	0.8	0.5	0.9	0.6	0.5
50%	0.3	0.4	0.7	1.2	1.2	1.5	0.8	0.7	0.4	0.9	0.6	0.5
60%	0.2	0.3	0.7	1.0	0.8	1.4	0.7	0.7	0.3	0.8	0.6	0.5
70%	0.2	0.2	0.6	0.8	0.7	1.0	0.7	0.5	0.3	0.6	0.5	0.4
80%	0.2	0.1	0.4	0.7	0.7	0.7	0.6	0.4	0.3	0.6	0.4	0.4
90%	0.1	0.1	0.3	0.6	0.5	0.6	0.5	0.3	0.2	0.4	0.4	0.3
Long Term												
Full Simulation Period[a]	0.3	0.8	1.7	2.0	2.5	2.5	1.4	0.8	0.5	0.8	0.6	0.6
Water Year Types[b]												
Wet (31%)	0.4	2.2	4.6	3.7	5.4	5.0	3.2	1.6	0.9	1.0	0.5	0.9
Above Normal (25%)	0.3	0.2	1.1	4.5	4.9	3.8	1.3	0.8	0.4	1.1	0.6	0.4
Below Normal (6%)	0.4	0.1	0.4	1.5	1.7	1.4	1.0	0.8	0.5	0.0	0.2	0.4
Dry (13%)	0.2	0.5	0.7	0.8	0.9	1.6	0.8	0.7	0.5	1.1	0.7	0.4
Critical (25%)	0.3	0.4	0.6	0.9	0.6	0.8	0.6	0.4	0.3	0.6	0.6	0.5

Alternative 2D (ELT) minus No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.6	-0.8	-1.1	-1.1	-1.0	-1.1	-0.8	-0.9	-0.1	-0.1	-0.2	-1.0
20%	-0.3	-0.4	-0.4	-0.8	-1.0	-1.0	-0.3	-0.1	0.0	-0.1	-0.2	-0.7
30%	-0.2	-0.4	-0.2	-0.7	-0.8	-0.6	-0.3	0.0	0.0	-0.1	-0.2	-0.4
40%	-0.2	-0.4	-0.2	-0.5	-0.6	-0.8	-0.1	0.0	0.0	-0.1	-0.2	-0.2
50%	-0.2	-0.3	-0.3	-0.4	-0.5	-0.7	0.0	0.0	-0.1	-0.1	-0.2	-0.1
60%	-0.2	-0.3	-0.1	-0.3	-0.2	-0.3	0.0	0.1	0.0	-0.1	-0.2	-0.1
70%	-0.2	-0.3	0.0	-0.2	-0.2	-0.2	0.0	0.0	0.0	-0.2	-0.1	-0.2
80%	-0.2	-0.3	-0.1	-0.2	-0.1	0.0	0.0	0.0	0.0	-0.3	-0.2	-0.1
90%	-0.2	-0.2	-0.1	0.0	0.0	0.0	0.1	0.0	-0.1	-0.2	-0.1	-0.2
Long Term												
Full Simulation Period[a]	-0.3	-0.4	-0.3	-0.5	-0.5	-0.5	-0.2	-0.2	-0.1	-0.1	-0.2	-0.4
Water Year Types[b]												
Wet (31%)	-0.6	-0.8	-0.8	-0.8	-0.9	-1.0	-0.5	-0.7	-0.5	-0.3	-0.4	-1.1
Above Normal (25%)	0.0	-0.3	-0.2	-1.1	-0.8	-0.8	-0.6	-0.2	0.0	0.1	-0.3	-0.6
Below Normal (6%)	-0.3	-0.7	-0.2	-0.3	-0.6	-0.7	0.0	0.0	0.0	-0.8	-0.5	-0.2
Dry (13%)	-0.3	-0.3	-0.2	-0.3	-0.3	-0.3	-0.1	0.0	0.0	0.1	-0.1	-0.2
Critical (25%)	-0.2	-0.1	-0.1	-0.2	-0.1	-0.1	0.1	0.1	0.0	-0.2	0.0	0.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-70-2-6. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Minimum Elevation

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.1	2.9	6.2	5.8	7.4	6.4	4.2	1.9	0.8	1.4	1.0	2.0
20%	0.8	1.8	1.6	4.7	6.5	5.3	1.5	0.9	0.5	1.3	0.9	1.5
30%	0.6	0.9	1.4	3.3	3.7	3.8	1.3	0.8	0.5	1.1	0.9	1.0
40%	0.6	0.8	1.1	1.8	2.3	2.5	1.0	0.8	0.5	1.0	0.8	0.7
50%	0.5	0.6	1.0	1.7	1.7	2.2	0.8	0.7	0.5	1.0	0.8	0.6
60%	0.5	0.5	0.8	1.3	1.0	1.6	0.7	0.6	0.4	0.9	0.8	0.6
70%	0.4	0.5	0.6	1.0	0.9	1.2	0.7	0.5	0.3	0.9	0.6	0.6
80%	0.3	0.4	0.6	0.8	0.8	0.7	0.6	0.4	0.3	0.8	0.6	0.5
90%	0.3	0.2	0.4	0.6	0.5	0.6	0.5	0.3	0.3	0.6	0.5	0.5
Long Term												
Full Simulation Period[a]	0.6	1.2	2.0	2.5	3.0	3.0	1.6	1.0	0.7	1.0	0.8	1.0
Water Year Types[b]												
Wet (31%)	0.9	3.0	5.4	4.5	6.4	6.1	3.8	2.2	1.5	1.3	0.9	2.0
Above Normal (25%)	0.4	0.5	1.3	5.6	5.7	4.6	1.9	1.0	0.4	1.0	0.9	1.0
Below Normal (6%)	0.6	0.8	0.6	1.8	2.3	2.1	1.0	0.8	0.5	0.8	0.7	0.6
Dry (13%)	0.5	0.8	0.9	1.0	1.2	1.9	0.9	0.7	0.5	1.0	0.8	0.6
Critical (25%)	0.5	0.5	0.7	1.0	0.7	0.9	0.6	0.4	0.3	0.8	0.5	0.5

Alternative 4A (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.6	2.4	5.6	5.2	7.0	6.0	3.8	1.6	0.6	0.8	0.7	1.3
20%	0.4	1.4	1.3	4.1	5.9	4.7	1.5	0.9	0.5	0.6	0.7	1.3
30%	0.3	0.5	1.2	2.9	3.2	3.4	1.3	0.9	0.4	0.6	0.7	0.7
40%	0.3	0.5	1.0	1.5	1.9	1.9	1.0	0.7	0.4	0.5	0.6	0.7
50%	0.3	0.4	0.8	1.5	1.4	1.7	0.8	0.7	0.3	0.5	0.5	0.6
60%	0.3	0.3	0.7	1.3	0.9	1.4	0.7	0.6	0.3	0.5	0.5	0.5
70%	0.2	0.2	0.6	0.9	0.8	1.0	0.7	0.5	0.3	0.5	0.5	0.4
80%	0.2	0.2	0.4	0.7	0.7	0.7	0.6	0.4	0.3	0.4	0.4	0.4
90%	0.2	0.1	0.3	0.6	0.5	0.6	0.5	0.3	0.3	0.4	0.3	0.3
Long Term												
Full Simulation Period[a]	0.4	0.9	1.8	2.2	2.7	2.6	1.6	0.9	0.5	0.6	0.5	0.7
Water Year Types[b]												
Wet (31%)	0.5	2.5	4.9	4.0	5.9	5.5	3.6	1.9	1.2	0.7	0.6	1.3
Above Normal (25%)	0.3	0.2	1.1	5.0	5.2	4.0	1.8	0.9	0.3	0.6	0.6	0.7
Below Normal (6%)	0.3	0.3	0.4	1.6	1.9	1.6	1.0	0.7	0.3	0.3	0.2	0.4
Dry (13%)	0.2	0.5	0.7	0.8	1.0	1.7	0.9	0.7	0.4	0.5	0.5	0.4
Critical (25%)	0.3	0.4	0.6	1.0	0.6	0.8	0.6	0.4	0.3	0.5	0.6	0.5

Alternative 4A (ELT) minus No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.5	-0.5	-0.6	-0.6	-0.4	-0.4	-0.4	-0.4	-0.2	-0.6	-0.2	-0.7
20%	-0.3	-0.4	-0.3	-0.6	-0.6	-0.6	0.0	0.0	0.0	-0.7	-0.2	-0.2
30%	-0.3	-0.4	-0.2	-0.4	-0.5	-0.5	0.0	0.1	-0.1	-0.5	-0.2	-0.3
40%	-0.3	-0.4	-0.1	-0.3	-0.4	-0.6	0.0	0.0	-0.1	-0.4	-0.2	-0.1
50%	-0.2	-0.2	-0.2	-0.2	-0.3	-0.5	0.0	0.0	-0.1	-0.4	-0.2	-0.1
60%	-0.2	-0.2	-0.1	0.0	-0.1	-0.2	0.0	0.0	-0.1	-0.4	-0.2	-0.1
70%	-0.2	-0.2	0.0	-0.1	-0.1	-0.2	0.0	0.0	0.0	-0.4	-0.2	-0.1
80%	-0.1	-0.2	-0.1	-0.2	-0.1	0.0	0.0	0.0	0.0	-0.4	-0.2	-0.2
90%	-0.1	-0.2	-0.1	0.0	-0.1	0.0	0.0	0.0	0.0	-0.3	-0.2	-0.2
Long Term												
Full Simulation Period[a]	-0.3	-0.3	-0.2	-0.3	-0.3	-0.3	-0.1	-0.1	-0.1	-0.4	-0.2	-0.3
Water Year Types[b]												
Wet (31%)	-0.4	-0.5	-0.5	-0.5	-0.4	-0.5	-0.2	-0.4	-0.3	-0.6	-0.4	-0.7
Above Normal (25%)	-0.1	-0.3	-0.2	-0.7	-0.5	-0.6	-0.1	-0.1	-0.1	-0.4	-0.3	-0.3
Below Normal (6%)	-0.3	-0.5	-0.2	-0.2	-0.4	-0.5	0.0	0.0	-0.2	-0.5	-0.5	-0.2
Dry (13%)	-0.3	-0.3	-0.2	-0.2	-0.2	-0.3	0.0	0.0	-0.1	-0.5	-0.3	-0.2
Critical (25%)	-0.2	-0.1	-0.1	0.0	-0.1	-0.1	0.0	0.0	0.0	-0.3	0.0	0.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-70-2-7. Sacramento River d/s of Georgiana Slough, Monthly Averaged Daily Minimum Elevation

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.1	2.9	6.2	5.8	7.4	6.4	4.2	1.9	0.8	1.4	1.0	2.0
20%	0.8	1.8	1.6	4.7	6.5	5.3	1.5	0.9	0.5	1.3	0.9	1.5
30%	0.6	0.9	1.4	3.3	3.7	3.8	1.3	0.8	0.5	1.1	0.9	1.0
40%	0.6	0.8	1.1	1.8	2.3	2.5	1.0	0.8	0.5	1.0	0.8	0.7
50%	0.5	0.6	1.0	1.7	1.7	2.2	0.8	0.7	0.5	1.0	0.8	0.6
60%	0.5	0.5	0.8	1.3	1.0	1.6	0.7	0.6	0.4	0.9	0.8	0.6
70%	0.4	0.5	0.6	1.0	0.9	1.2	0.7	0.5	0.3	0.9	0.6	0.6
80%	0.3	0.4	0.6	0.8	0.8	0.7	0.6	0.4	0.3	0.8	0.6	0.5
90%	0.3	0.2	0.4	0.6	0.5	0.6	0.5	0.3	0.3	0.6	0.5	0.5
Long Term												
Full Simulation Period[a]	0.6	1.2	2.0	2.5	3.0	3.0	1.6	1.0	0.7	1.0	0.8	1.0
Water Year Types[b]												
Wet (31%)	0.9	3.0	5.4	4.5	6.4	6.1	3.8	2.2	1.5	1.3	0.9	2.0
Above Normal (25%)	0.4	0.5	1.3	5.6	5.7	4.6	1.9	1.0	0.4	1.0	0.9	1.0
Below Normal (6%)	0.6	0.8	0.6	1.8	2.3	2.1	1.0	0.8	0.5	0.8	0.7	0.6
Dry (13%)	0.5	0.8	0.9	1.0	1.2	1.9	0.9	0.7	0.5	1.0	0.8	0.6
Critical (25%)	0.5	0.5	0.7	1.0	0.7	0.9	0.6	0.4	0.3	0.8	0.5	0.5

Alternative 5A (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.9	2.6	6.1	5.7	7.4	6.6	4.2	1.7	0.7	1.2	0.9	1.4
20%	0.5	1.7	1.5	4.7	6.5	5.3	1.2	0.9	0.6	1.1	0.8	1.0
30%	0.5	0.6	1.4	3.2	3.5	3.6	1.1	0.8	0.5	1.1	0.7	0.8
40%	0.5	0.5	1.0	1.6	2.2	2.2	0.9	0.7	0.5	1.0	0.7	0.7
50%	0.4	0.5	0.9	1.5	1.6	2.0	0.8	0.6	0.4	0.9	0.7	0.6
60%	0.4	0.5	0.8	1.2	0.9	1.5	0.7	0.6	0.3	0.9	0.6	0.5
70%	0.4	0.3	0.6	1.0	0.8	1.1	0.7	0.5	0.3	0.7	0.6	0.5
80%	0.3	0.3	0.6	0.8	0.8	0.7	0.6	0.4	0.3	0.5	0.5	0.5
90%	0.3	0.2	0.4	0.7	0.5	0.6	0.5	0.3	0.3	0.4	0.5	0.4
Long Term												
Full Simulation Period[a]	0.5	1.1	2.0	2.5	2.9	2.9	1.6	1.0	0.6	0.9	0.7	0.7
Water Year Types[b]												
Wet (31%)	0.8	2.7	5.3	4.4	6.3	6.0	3.8	2.0	1.4	1.1	0.8	1.4
Above Normal (25%)	0.3	0.4	1.2	5.5	5.6	4.5	1.6	0.8	0.4	1.0	0.7	0.8
Below Normal (6%)	0.5	0.5	0.6	1.8	2.2	1.9	0.9	0.7	0.6	0.7	0.4	0.4
Dry (13%)	0.4	0.7	0.9	1.0	1.1	1.8	0.8	0.7	0.5	1.0	0.7	0.5
Critical (25%)	0.5	0.4	0.7	1.0	0.7	0.9	0.6	0.4	0.3	0.6	0.5	0.5

Alternative 5A (ELT) minus No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.2	-0.3	-0.1	-0.1	0.0	0.2	0.0	-0.3	-0.1	-0.3	-0.1	-0.5
20%	-0.2	-0.1	-0.1	-0.1	0.0	0.0	-0.3	0.0	0.0	-0.2	-0.1	-0.5
30%	-0.1	-0.3	0.0	-0.1	-0.2	-0.2	-0.2	0.0	0.0	0.0	-0.1	-0.3
40%	-0.1	-0.3	-0.1	-0.2	-0.1	-0.3	-0.1	-0.1	0.0	0.0	-0.2	-0.1
50%	-0.1	-0.1	-0.1	-0.2	-0.1	-0.2	0.0	0.0	-0.1	-0.1	-0.1	-0.1
60%	-0.1	-0.1	0.0	-0.1	0.0	-0.1	0.0	0.0	0.0	0.0	-0.1	-0.1
70%	-0.1	-0.2	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	-0.2	-0.1	-0.1
80%	0.0	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.3	0.0	0.0
90%	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	-0.2	0.0	-0.1
Long Term												
Full Simulation Period[a]	-0.1	-0.2	0.0	-0.1	-0.1	-0.1	0.0	-0.1	0.0	-0.1	-0.1	-0.2
Water Year Types[b]												
Wet (31%)	-0.1	-0.2	-0.1	-0.1	-0.1	-0.1	0.1	-0.2	-0.1	-0.2	-0.1	-0.7
Above Normal (25%)	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.3	-0.2	-0.1	0.0	-0.2	-0.3
Below Normal (6%)	-0.2	-0.4	0.0	-0.1	-0.1	-0.3	-0.1	-0.1	0.0	-0.1	-0.2	-0.2
Dry (13%)	-0.1	-0.2	0.0	0.0	-0.1	-0.1	-0.1	0.1	0.0	0.0	-0.1	-0.1
Critical (25%)	-0.1	-0.1	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	-0.2	0.0	0.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

C.71. Sacramento River at Rio Vista

Table C-71-1-1. Sacramento River at Rio Vista, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.4	3.8	4.1	4.1	4.5	4.0	3.7	3.6	3.7	3.9	3.8	3.7
20%	3.2	3.5	3.7	3.9	4.1	3.8	3.2	3.3	3.6	3.8	3.7	3.5
30%	3.2	3.3	3.5	3.7	3.6	3.4	3.2	3.3	3.5	3.7	3.6	3.5
40%	3.2	3.3	3.5	3.5	3.5	3.4	3.1	3.3	3.5	3.7	3.6	3.4
50%	3.1	3.2	3.5	3.5	3.3	3.3	3.0	3.2	3.5	3.7	3.6	3.4
60%	3.1	3.2	3.3	3.4	3.3	3.2	3.0	3.2	3.4	3.6	3.5	3.4
70%	3.1	3.2	3.3	3.4	3.2	3.1	2.9	3.2	3.4	3.6	3.4	3.3
80%	3.0	3.1	3.3	3.2	3.1	2.9	2.9	3.1	3.3	3.6	3.4	3.2
90%	3.0	3.0	3.1	3.2	3.0	2.8	2.8	3.0	3.3	3.5	3.4	3.2
Long Term												
Full Simulation Period[a]	3.2	3.3	3.5	3.6	3.6	3.3	3.1	3.3	3.5	3.7	3.6	3.4
Water Year Types[b]												
Wet (31%)	3.3	3.7	4.0	4.0	4.2	4.0	3.4	3.5	3.8	3.9	3.7	3.8
Above Normal (25%)	3.0	3.1	3.4	4.1	4.2	3.6	3.2	3.3	3.3	3.5	3.5	3.2
Below Normal (6%)	3.1	3.2	3.1	3.6	3.5	3.3	2.9	3.1	3.2	3.4	3.3	3.2
Dry (13%)	3.1	3.2	3.4	3.3	3.2	3.2	3.0	3.3	3.5	3.7	3.6	3.3
Critical (25%)	3.2	3.2	3.4	3.3	3.1	2.9	2.9	3.1	3.4	3.6	3.5	3.4

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.8	4.3	4.6	4.6	5.0	4.4	4.2	4.1	4.1	4.4	4.3	4.3
20%	3.7	4.0	4.2	4.4	4.7	4.3	3.7	3.8	4.1	4.3	4.1	4.0
30%	3.7	3.8	4.0	4.2	4.1	3.9	3.7	3.8	4.0	4.3	4.1	4.0
40%	3.7	3.8	4.0	4.0	3.9	3.9	3.6	3.8	4.0	4.2	4.1	3.9
50%	3.6	3.7	3.9	4.0	3.8	3.7	3.5	3.7	4.0	4.2	4.1	3.9
60%	3.6	3.7	3.8	3.9	3.8	3.7	3.5	3.7	3.9	4.1	4.0	3.9
70%	3.6	3.7	3.8	3.9	3.7	3.6	3.4	3.7	3.9	4.1	3.9	3.8
80%	3.5	3.7	3.8	3.8	3.6	3.4	3.4	3.6	3.8	4.1	3.9	3.7
90%	3.5	3.5	3.6	3.7	3.5	3.3	3.3	3.5	3.8	4.0	3.9	3.7
Long Term												
Full Simulation Period[a]	3.7	3.8	4.0	4.1	4.1	3.8	3.6	3.8	4.0	4.2	4.1	3.9
Water Year Types[b]												
Wet (31%)	3.8	4.2	4.5	4.5	4.7	4.5	4.0	4.0	4.2	4.4	4.2	4.3
Above Normal (25%)	3.5	3.6	3.9	4.6	4.7	4.1	3.7	3.7	3.8	4.0	4.0	3.8
Below Normal (6%)	3.6	3.7	3.6	4.1	3.9	3.8	3.4	3.6	3.7	3.9	3.8	3.7
Dry (13%)	3.6	3.7	3.9	3.8	3.7	3.6	3.5	3.8	4.0	4.2	4.1	3.8
Critical (25%)	3.6	3.7	3.9	3.8	3.6	3.4	3.4	3.7	3.9	4.1	4.0	3.9

No Action Alternative (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6
20%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
30%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
40%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
50%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
60%	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5
70%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
90%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Long Term												
Full Simulation Period[a]	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Water Year Types[b]												
Wet (31%)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6
Above Normal (25%)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Below Normal (6%)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Dry (13%)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Critical (25%)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

Table C-71-1-2. Sacramento River at Rio Vista, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.4	3.8	4.1	4.1	4.5	4.0	3.7	3.6	3.7	3.9	3.8	3.7
20%	3.2	3.5	3.7	3.9	4.1	3.8	3.2	3.3	3.6	3.8	3.7	3.5
30%	3.2	3.3	3.5	3.7	3.6	3.4	3.2	3.3	3.5	3.7	3.6	3.5
40%	3.2	3.3	3.5	3.5	3.5	3.4	3.1	3.3	3.5	3.7	3.6	3.4
50%	3.1	3.2	3.5	3.5	3.3	3.3	3.0	3.2	3.5	3.7	3.6	3.4
60%	3.1	3.2	3.3	3.4	3.3	3.2	3.0	3.2	3.4	3.6	3.5	3.4
70%	3.1	3.2	3.3	3.4	3.2	3.1	2.9	3.2	3.4	3.6	3.4	3.3
80%	3.0	3.1	3.3	3.2	3.1	2.9	2.9	3.1	3.3	3.6	3.4	3.2
90%	3.0	3.0	3.1	3.2	3.0	2.8	2.8	3.0	3.3	3.5	3.4	3.2
Long Term												
Full Simulation Period[a]	3.2	3.3	3.5	3.6	3.6	3.3	3.1	3.3	3.5	3.7	3.6	3.4
Water Year Types[b]												
Wet (31%)	3.3	3.7	4.0	4.0	4.2	4.0	3.4	3.5	3.8	3.9	3.7	3.8
Above Normal (25%)	3.0	3.1	3.4	4.1	4.2	3.6	3.2	3.3	3.3	3.5	3.5	3.2
Below Normal (6%)	3.1	3.2	3.1	3.6	3.5	3.3	2.9	3.1	3.2	3.4	3.3	3.2
Dry (13%)	3.1	3.2	3.4	3.3	3.2	3.2	3.0	3.3	3.5	3.7	3.6	3.3
Critical (25%)	3.2	3.2	3.4	3.3	3.1	2.9	2.9	3.1	3.4	3.6	3.5	3.4

Alternative 2D (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.8	4.2	4.5	4.5	4.9	4.3	4.0	4.0	4.1	4.3	4.2	4.2
20%	3.7	3.9	4.1	4.3	4.5	4.2	3.6	3.8	4.0	4.2	4.0	3.9
30%	3.6	3.8	4.0	4.1	4.0	3.8	3.6	3.7	4.0	4.2	4.0	3.9
40%	3.6	3.7	3.9	3.9	3.8	3.7	3.5	3.7	3.9	4.1	4.0	3.9
50%	3.6	3.7	3.9	3.9	3.8	3.6	3.4	3.7	3.9	4.1	4.0	3.8
60%	3.5	3.6	3.8	3.8	3.7	3.6	3.4	3.6	3.8	4.1	3.9	3.8
70%	3.5	3.6	3.7	3.8	3.6	3.5	3.4	3.6	3.8	4.0	3.9	3.8
80%	3.5	3.6	3.7	3.7	3.6	3.4	3.3	3.5	3.8	4.0	3.8	3.7
90%	3.4	3.4	3.6	3.6	3.5	3.3	3.2	3.5	3.7	3.9	3.8	3.6
Long Term												
Full Simulation Period[a]	3.6	3.7	3.9	4.0	4.0	3.7	3.5	3.7	3.9	4.1	4.0	3.9
Water Year Types[b]												
Wet (31%)	3.7	4.1	4.4	4.4	4.5	4.3	3.9	3.9	4.1	4.3	4.2	4.2
Above Normal (25%)	3.5	3.5	3.8	4.5	4.6	4.0	3.6	3.7	3.7	4.0	3.9	3.7
Below Normal (6%)	3.5	3.6	3.6	4.1	3.8	3.6	3.4	3.5	3.7	3.8	3.8	3.6
Dry (13%)	3.6	3.6	3.8	3.7	3.6	3.6	3.4	3.7	4.0	4.1	4.0	3.8
Critical (25%)	3.6	3.7	3.8	3.7	3.6	3.3	3.4	3.6	3.8	4.1	3.9	3.8

Alternative 2D (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5
20%	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
30%	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
40%	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5
50%	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4
60%	0.5	0.4	0.4	0.5	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4
70%	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.5
80%	0.5	0.4	0.4	0.5	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4
90%	0.5	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5
Long Term												
Full Simulation Period[a]	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Water Year Types[b]												
Wet (31%)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Above Normal (25%)	0.5	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5
Below Normal (6%)	0.4	0.4	0.5	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4
Dry (13%)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.4
Critical (25%)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-71-1-3. Sacramento River at Rio Vista, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.4	3.8	4.1	4.1	4.5	4.0	3.7	3.6	3.7	3.9	3.8	3.7
20%	3.2	3.5	3.7	3.9	4.1	3.8	3.2	3.3	3.6	3.8	3.7	3.5
30%	3.2	3.3	3.5	3.7	3.6	3.4	3.2	3.3	3.5	3.7	3.6	3.5
40%	3.2	3.3	3.5	3.5	3.5	3.4	3.1	3.3	3.5	3.7	3.6	3.4
50%	3.1	3.2	3.5	3.5	3.3	3.3	3.0	3.2	3.5	3.7	3.6	3.4
60%	3.1	3.2	3.3	3.4	3.3	3.2	3.0	3.2	3.4	3.6	3.5	3.4
70%	3.1	3.2	3.3	3.4	3.2	3.1	2.9	3.2	3.4	3.6	3.4	3.3
80%	3.0	3.1	3.3	3.2	3.1	2.9	2.9	3.1	3.3	3.6	3.4	3.2
90%	3.0	3.0	3.1	3.2	3.0	2.8	2.8	3.0	3.3	3.5	3.4	3.2
Long Term												
Full Simulation Period[a]	3.2	3.3	3.5	3.6	3.6	3.3	3.1	3.3	3.5	3.7	3.6	3.4
Water Year Types[b]												
Wet (31%)	3.3	3.7	4.0	4.0	4.2	4.0	3.4	3.5	3.8	3.9	3.7	3.8
Above Normal (25%)	3.0	3.1	3.4	4.1	4.2	3.6	3.2	3.3	3.3	3.5	3.5	3.2
Below Normal (6%)	3.1	3.2	3.1	3.6	3.5	3.3	2.9	3.1	3.2	3.4	3.3	3.2
Dry (13%)	3.1	3.2	3.4	3.3	3.2	3.2	3.0	3.3	3.5	3.7	3.6	3.3
Critical (25%)	3.2	3.2	3.4	3.3	3.1	2.9	2.9	3.1	3.4	3.6	3.5	3.4

Alternative 4A (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.8	4.3	4.6	4.6	5.0	4.4	4.1	4.1	4.1	4.4	4.3	4.2
20%	3.7	4.0	4.2	4.4	4.6	4.3	3.7	3.8	4.1	4.2	4.1	4.0
30%	3.7	3.8	4.0	4.2	4.1	3.8	3.7	3.8	4.0	4.2	4.1	4.0
40%	3.7	3.8	4.0	4.0	3.9	3.8	3.6	3.8	4.0	4.2	4.1	3.9
50%	3.6	3.7	3.9	4.0	3.8	3.7	3.4	3.7	4.0	4.2	4.1	3.9
60%	3.6	3.7	3.8	3.9	3.7	3.7	3.4	3.7	3.9	4.1	4.0	3.9
70%	3.6	3.6	3.8	3.9	3.7	3.5	3.4	3.7	3.9	4.1	3.9	3.8
80%	3.6	3.6	3.8	3.8	3.6	3.4	3.4	3.6	3.8	4.1	3.9	3.7
90%	3.5	3.5	3.6	3.7	3.5	3.3	3.3	3.5	3.8	4.0	3.8	3.7
Long Term												
Full Simulation Period[a]	3.7	3.8	4.0	4.1	4.0	3.8	3.6	3.8	4.0	4.2	4.1	3.9
Water Year Types[b]												
Wet (31%)	3.8	4.2	4.5	4.5	4.7	4.4	3.9	4.0	4.2	4.4	4.2	4.3
Above Normal (25%)	3.5	3.6	3.9	4.6	4.7	4.1	3.7	3.7	3.8	4.0	4.0	3.7
Below Normal (6%)	3.6	3.7	3.6	4.1	3.9	3.7	3.4	3.6	3.7	3.9	3.8	3.7
Dry (13%)	3.6	3.7	3.9	3.8	3.7	3.6	3.5	3.8	4.0	4.2	4.0	3.8
Critical (25%)	3.6	3.7	3.9	3.8	3.6	3.4	3.4	3.6	3.9	4.1	4.0	3.9

Alternative 4A (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.4	0.4	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
20%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
30%	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5
40%	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5
50%	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5
60%	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5
70%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
90%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Long Term												
Full Simulation Period[a]	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Water Year Types[b]												
Wet (31%)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Above Normal (25%)	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Below Normal (6%)	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5
Dry (13%)	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5
Critical (25%)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-71-1-4. Sacramento River at Rio Vista, Monthly Averaged Daily Maximum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.4	3.8	4.1	4.1	4.5	4.0	3.7	3.6	3.7	3.9	3.8	3.7
20%	3.2	3.5	3.7	3.9	4.1	3.8	3.2	3.3	3.6	3.8	3.7	3.5
30%	3.2	3.3	3.5	3.7	3.6	3.4	3.2	3.3	3.5	3.7	3.6	3.5
40%	3.2	3.3	3.5	3.5	3.5	3.4	3.1	3.3	3.5	3.7	3.6	3.4
50%	3.1	3.2	3.5	3.5	3.3	3.3	3.0	3.2	3.5	3.7	3.6	3.4
60%	3.1	3.2	3.3	3.4	3.3	3.2	3.0	3.2	3.4	3.6	3.5	3.4
70%	3.1	3.2	3.3	3.4	3.2	3.1	2.9	3.2	3.4	3.6	3.4	3.3
80%	3.0	3.1	3.3	3.2	3.1	2.9	2.9	3.1	3.3	3.6	3.4	3.2
90%	3.0	3.0	3.1	3.2	3.0	2.8	2.8	3.0	3.3	3.5	3.4	3.2
Long Term												
Full Simulation Period[a]	3.2	3.3	3.5	3.6	3.6	3.3	3.1	3.3	3.5	3.7	3.6	3.4
Water Year Types[b]												
Wet (31%)	3.3	3.7	4.0	4.0	4.2	4.0	3.4	3.5	3.8	3.9	3.7	3.8
Above Normal (25%)	3.0	3.1	3.4	4.1	4.2	3.6	3.2	3.3	3.3	3.5	3.5	3.2
Below Normal (6%)	3.1	3.2	3.1	3.6	3.5	3.3	2.9	3.1	3.2	3.4	3.3	3.2
Dry (13%)	3.1	3.2	3.4	3.3	3.2	3.2	3.0	3.3	3.5	3.7	3.6	3.3
Critical (25%)	3.2	3.2	3.4	3.3	3.1	2.9	2.9	3.1	3.4	3.6	3.5	3.4

Alternative 5A (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.8	4.2	4.5	4.5	4.9	4.4	4.1	4.0	4.1	4.3	4.2	4.2
20%	3.6	3.9	4.1	4.3	4.6	4.2	3.6	3.8	4.0	4.2	4.1	3.9
30%	3.6	3.8	4.0	4.1	4.1	3.8	3.6	3.7	4.0	4.2	4.0	3.9
40%	3.6	3.7	3.9	4.0	3.8	3.8	3.5	3.7	3.9	4.2	4.0	3.9
50%	3.6	3.7	3.9	3.9	3.8	3.7	3.4	3.7	3.9	4.1	4.0	3.8
60%	3.5	3.6	3.8	3.8	3.7	3.6	3.4	3.6	3.8	4.1	3.9	3.8
70%	3.5	3.6	3.7	3.8	3.6	3.5	3.4	3.6	3.8	4.0	3.9	3.8
80%	3.5	3.6	3.7	3.7	3.6	3.4	3.3	3.5	3.8	4.0	3.8	3.7
90%	3.4	3.4	3.6	3.6	3.5	3.3	3.2	3.5	3.7	3.9	3.8	3.6
Long Term												
Full Simulation Period[a]	3.6	3.8	3.9	4.0	4.0	3.8	3.5	3.7	3.9	4.1	4.0	3.9
Water Year Types[b]												
Wet (31%)	3.7	4.1	4.4	4.4	4.6	4.4	3.9	3.9	4.1	4.3	4.2	4.2
Above Normal (25%)	3.5	3.5	3.9	4.5	4.6	4.0	3.6	3.7	3.7	4.0	3.9	3.7
Below Normal (6%)	3.5	3.6	3.6	4.1	3.8	3.7	3.4	3.5	3.7	3.8	3.8	3.6
Dry (13%)	3.6	3.6	3.8	3.7	3.6	3.6	3.4	3.7	3.9	4.1	4.0	3.8
Critical (25%)	3.6	3.7	3.8	3.7	3.6	3.3	3.4	3.6	3.8	4.1	3.9	3.8

Alternative 5A (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5
20%	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
30%	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
40%	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.5
50%	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
60%	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
70%	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
80%	0.4	0.5	0.4	0.5	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4
90%	0.4	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5
Long Term												
Full Simulation Period[a]	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Water Year Types[b]												
Wet (31%)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Above Normal (25%)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5
Below Normal (6%)	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.4
Dry (13%)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Critical (25%)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-71-1-5. Sacramento River at Rio Vista, Monthly Averaged Daily Maximum Elevation

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.8	4.3	4.6	4.6	5.0	4.4	4.2	4.1	4.1	4.4	4.3	4.3
20%	3.7	4.0	4.2	4.4	4.7	4.3	3.7	3.8	4.1	4.3	4.1	4.0
30%	3.7	3.8	4.0	4.2	4.1	3.9	3.7	3.8	4.0	4.3	4.1	4.0
40%	3.7	3.8	4.0	4.0	3.9	3.9	3.6	3.8	4.0	4.2	4.1	3.9
50%	3.6	3.7	3.9	4.0	3.8	3.7	3.5	3.7	4.0	4.2	4.1	3.9
60%	3.6	3.7	3.8	3.9	3.8	3.7	3.5	3.7	3.9	4.1	4.0	3.9
70%	3.6	3.7	3.8	3.9	3.7	3.6	3.4	3.7	3.9	4.1	3.9	3.8
80%	3.5	3.7	3.8	3.8	3.6	3.4	3.4	3.6	3.8	4.1	3.9	3.7
90%	3.5	3.5	3.6	3.7	3.5	3.3	3.3	3.5	3.8	4.0	3.9	3.7
Long Term												
Full Simulation Period[a]	3.7	3.8	4.0	4.1	4.1	3.8	3.6	3.8	4.0	4.2	4.1	3.9
Water Year Types[b]												
Wet (31%)	3.8	4.2	4.5	4.5	4.7	4.5	4.0	4.0	4.2	4.4	4.2	4.3
Above Normal (25%)	3.5	3.6	3.9	4.6	4.7	4.1	3.7	3.7	3.8	4.0	4.0	3.8
Below Normal (6%)	3.6	3.7	3.6	4.1	3.9	3.8	3.4	3.6	3.7	3.9	3.8	3.7
Dry (13%)	3.6	3.7	3.9	3.8	3.7	3.6	3.5	3.8	4.0	4.2	4.1	3.8
Critical (25%)	3.6	3.7	3.9	3.8	3.6	3.4	3.4	3.7	3.9	4.1	4.0	3.9

Alternative 2D (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.8	4.2	4.5	4.5	4.9	4.3	4.0	4.0	4.1	4.3	4.2	4.2
20%	3.7	3.9	4.1	4.3	4.5	4.2	3.6	3.8	4.0	4.2	4.0	3.9
30%	3.6	3.8	4.0	4.1	4.0	3.8	3.6	3.7	4.0	4.2	4.0	3.9
40%	3.6	3.7	3.9	3.9	3.8	3.7	3.5	3.7	3.9	4.1	4.0	3.9
50%	3.6	3.7	3.9	3.9	3.8	3.6	3.4	3.7	3.9	4.1	4.0	3.8
60%	3.5	3.6	3.8	3.8	3.7	3.6	3.4	3.6	3.8	4.1	3.9	3.8
70%	3.5	3.6	3.7	3.8	3.6	3.5	3.4	3.6	3.8	4.0	3.9	3.8
80%	3.5	3.6	3.7	3.7	3.6	3.4	3.3	3.5	3.8	4.0	3.8	3.7
90%	3.4	3.4	3.6	3.6	3.5	3.3	3.2	3.5	3.7	3.9	3.8	3.6
Long Term												
Full Simulation Period[a]	3.6	3.7	3.9	4.0	4.0	3.7	3.5	3.7	3.9	4.1	4.0	3.9
Water Year Types[b]												
Wet (31%)	3.7	4.1	4.4	4.4	4.5	4.3	3.9	3.9	4.1	4.3	4.2	4.2
Above Normal (25%)	3.5	3.5	3.8	4.5	4.6	4.0	3.6	3.7	3.7	4.0	3.9	3.7
Below Normal (6%)	3.5	3.6	3.6	4.1	3.8	3.6	3.4	3.5	3.7	3.8	3.8	3.6
Dry (13%)	3.6	3.6	3.8	3.7	3.6	3.6	3.4	3.7	4.0	4.1	4.0	3.8
Critical (25%)	3.6	3.7	3.8	3.7	3.6	3.3	3.4	3.6	3.8	4.1	3.9	3.8

Alternative 2D (ELT) minus No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.1	-0.1	-0.1	-0.2	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
20%	-0.1	-0.1	-0.1	-0.1	-0.2	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
30%	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
40%	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
50%	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
60%	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
70%	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
80%	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
90%	0.0	-0.1	-0.1	0.0	-0.1	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
Long Term												
Full Simulation Period[a]	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
Water Year Types[b]												
Wet (31%)	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
Above Normal (25%)	0.0	-0.1	-0.1	-0.2	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
Below Normal (6%)	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
Dry (13%)	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	-0.1	-0.1	-0.1	-0.1
Critical (25%)	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-71-1-6. Sacramento River at Rio Vista, Monthly Averaged Daily Maximum Elevation

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.8	4.3	4.6	4.6	5.0	4.4	4.2	4.1	4.1	4.4	4.3	4.3
20%	3.7	4.0	4.2	4.4	4.7	4.3	3.7	3.8	4.1	4.3	4.1	4.0
30%	3.7	3.8	4.0	4.2	4.1	3.9	3.7	3.8	4.0	4.3	4.1	4.0
40%	3.7	3.8	4.0	4.0	3.9	3.9	3.6	3.8	4.0	4.2	4.1	3.9
50%	3.6	3.7	3.9	4.0	3.8	3.7	3.5	3.7	4.0	4.2	4.1	3.9
60%	3.6	3.7	3.8	3.9	3.8	3.7	3.5	3.7	3.9	4.1	4.0	3.9
70%	3.6	3.7	3.8	3.9	3.7	3.6	3.4	3.7	3.9	4.1	3.9	3.8
80%	3.5	3.7	3.8	3.8	3.6	3.4	3.4	3.6	3.8	4.1	3.9	3.7
90%	3.5	3.5	3.6	3.7	3.5	3.3	3.3	3.5	3.8	4.0	3.9	3.7
Long Term												
Full Simulation Period[a]	3.7	3.8	4.0	4.1	4.1	3.8	3.6	3.8	4.0	4.2	4.1	3.9
Water Year Types[b]												
Wet (31%)	3.8	4.2	4.5	4.5	4.7	4.5	4.0	4.0	4.2	4.4	4.2	4.3
Above Normal (25%)	3.5	3.6	3.9	4.6	4.7	4.1	3.7	3.7	3.8	4.0	4.0	3.8
Below Normal (6%)	3.6	3.7	3.6	4.1	3.9	3.8	3.4	3.6	3.7	3.9	3.8	3.7
Dry (13%)	3.6	3.7	3.9	3.8	3.7	3.6	3.5	3.8	4.0	4.2	4.1	3.8
Critical (25%)	3.6	3.7	3.9	3.8	3.6	3.4	3.4	3.7	3.9	4.1	4.0	3.9

Alternative 4A (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.8	4.3	4.6	4.6	5.0	4.4	4.1	4.1	4.1	4.4	4.3	4.2
20%	3.7	4.0	4.2	4.4	4.6	4.3	3.7	3.8	4.1	4.2	4.1	4.0
30%	3.7	3.8	4.0	4.2	4.1	3.8	3.7	3.8	4.0	4.2	4.1	4.0
40%	3.7	3.8	4.0	4.0	3.9	3.8	3.6	3.8	4.0	4.2	4.1	3.9
50%	3.6	3.7	3.9	4.0	3.8	3.7	3.4	3.7	4.0	4.2	4.1	3.9
60%	3.6	3.7	3.8	3.9	3.7	3.7	3.4	3.7	3.9	4.1	4.0	3.9
70%	3.6	3.6	3.8	3.9	3.7	3.5	3.4	3.7	3.9	4.1	3.9	3.8
80%	3.6	3.6	3.8	3.8	3.6	3.4	3.4	3.6	3.8	4.1	3.9	3.7
90%	3.5	3.5	3.6	3.7	3.5	3.3	3.3	3.5	3.8	4.0	3.8	3.7
Long Term												
Full Simulation Period[a]	3.7	3.8	4.0	4.1	4.0	3.8	3.6	3.8	4.0	4.2	4.1	3.9
Water Year Types[b]												
Wet (31%)	3.8	4.2	4.5	4.5	4.7	4.4	3.9	4.0	4.2	4.4	4.2	4.3
Above Normal (25%)	3.5	3.6	3.9	4.6	4.7	4.1	3.7	3.7	3.8	4.0	4.0	3.7
Below Normal (6%)	3.6	3.7	3.6	4.1	3.9	3.7	3.4	3.6	3.7	3.9	3.8	3.7
Dry (13%)	3.6	3.7	3.9	3.8	3.7	3.6	3.5	3.8	4.0	4.2	4.0	3.8
Critical (25%)	3.6	3.7	3.9	3.8	3.6	3.4	3.4	3.6	3.9	4.1	4.0	3.9

Alternative 4A (ELT) minus No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1
20%	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50%	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0
60%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Long Term												
Full Simulation Period[a]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Water Year Types[b]												
Wet (31%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Above Normal (25%)	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Below Normal (6%)	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0
Dry (13%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Critical (25%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-71-1-7. Sacramento River at Rio Vista, Monthly Averaged Daily Maximum Elevation

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.8	4.3	4.6	4.6	5.0	4.4	4.2	4.1	4.1	4.4	4.3	4.3
20%	3.7	4.0	4.2	4.4	4.7	4.3	3.7	3.8	4.1	4.3	4.1	4.0
30%	3.7	3.8	4.0	4.2	4.1	3.9	3.7	3.8	4.0	4.3	4.1	4.0
40%	3.7	3.8	4.0	4.0	3.9	3.9	3.6	3.8	4.0	4.2	4.1	3.9
50%	3.6	3.7	3.9	4.0	3.8	3.7	3.5	3.7	4.0	4.2	4.1	3.9
60%	3.6	3.7	3.8	3.9	3.8	3.7	3.5	3.7	3.9	4.1	4.0	3.9
70%	3.6	3.7	3.8	3.9	3.7	3.6	3.4	3.7	3.9	4.1	3.9	3.8
80%	3.5	3.7	3.8	3.8	3.6	3.4	3.4	3.6	3.8	4.1	3.9	3.7
90%	3.5	3.5	3.6	3.7	3.5	3.3	3.3	3.5	3.8	4.0	3.9	3.7
Long Term												
Full Simulation Period[a]	3.7	3.8	4.0	4.1	4.1	3.8	3.6	3.8	4.0	4.2	4.1	3.9
Water Year Types[b]												
Wet (31%)	3.8	4.2	4.5	4.5	4.7	4.5	4.0	4.0	4.2	4.4	4.2	4.3
Above Normal (25%)	3.5	3.6	3.9	4.6	4.7	4.1	3.7	3.7	3.8	4.0	4.0	3.8
Below Normal (6%)	3.6	3.7	3.6	4.1	3.9	3.8	3.4	3.6	3.7	3.9	3.8	3.7
Dry (13%)	3.6	3.7	3.9	3.8	3.7	3.6	3.5	3.8	4.0	4.2	4.1	3.8
Critical (25%)	3.6	3.7	3.9	3.8	3.6	3.4	3.4	3.7	3.9	4.1	4.0	3.9

Alternative 5A (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.8	4.2	4.5	4.5	4.9	4.4	4.1	4.0	4.1	4.3	4.2	4.2
20%	3.6	3.9	4.1	4.3	4.6	4.2	3.6	3.8	4.0	4.2	4.1	3.9
30%	3.6	3.8	4.0	4.1	4.1	3.8	3.6	3.7	4.0	4.2	4.0	3.9
40%	3.6	3.7	3.9	4.0	3.8	3.8	3.5	3.7	3.9	4.2	4.0	3.9
50%	3.6	3.7	3.9	3.9	3.8	3.7	3.4	3.7	3.9	4.1	4.0	3.8
60%	3.5	3.6	3.8	3.8	3.7	3.6	3.4	3.6	3.8	4.1	3.9	3.8
70%	3.5	3.6	3.7	3.8	3.6	3.5	3.4	3.6	3.8	4.0	3.9	3.8
80%	3.5	3.6	3.7	3.7	3.6	3.4	3.3	3.5	3.8	4.0	3.8	3.7
90%	3.4	3.4	3.6	3.6	3.5	3.3	3.2	3.5	3.7	3.9	3.8	3.6
Long Term												
Full Simulation Period[a]	3.6	3.8	3.9	4.0	4.0	3.8	3.5	3.7	3.9	4.1	4.0	3.9
Water Year Types[b]												
Wet (31%)	3.7	4.1	4.4	4.4	4.6	4.4	3.9	3.9	4.1	4.3	4.2	4.2
Above Normal (25%)	3.5	3.5	3.9	4.5	4.6	4.0	3.6	3.7	3.7	4.0	3.9	3.7
Below Normal (6%)	3.5	3.6	3.6	4.1	3.8	3.7	3.4	3.5	3.7	3.8	3.8	3.6
Dry (13%)	3.6	3.6	3.8	3.7	3.6	3.6	3.4	3.7	3.9	4.1	4.0	3.8
Critical (25%)	3.6	3.7	3.8	3.7	3.6	3.3	3.4	3.6	3.8	4.1	3.9	3.8

Alternative 5A (ELT) minus No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
20%	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
30%	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
40%	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
50%	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	-0.1	-0.1	-0.1	-0.1	-0.1
60%	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
70%	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
80%	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
90%	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
Long Term												
Full Simulation Period[a]	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
Water Year Types[b]												
Wet (31%)	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
Above Normal (25%)	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
Below Normal (6%)	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
Dry (13%)	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
Critical (25%)	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	-0.1	-0.1	-0.1	-0.1	-0.1

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-71-2-1. Sacramento River at Rio Vista, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.7	-0.5	-0.1	0.2	1.2	0.5	-0.2	-0.7	-0.9	-0.6	-0.6	-0.5
20%	-0.9	-0.8	-0.9	-0.3	0.0	0.1	-0.9	-1.0	-1.0	-0.8	-0.7	-0.6
30%	-0.9	-1.0	-1.0	-0.5	-0.3	-0.4	-1.0	-1.1	-1.1	-0.9	-0.7	-0.7
40%	-1.0	-1.0	-1.0	-0.8	-0.8	-0.7	-1.1	-1.1	-1.1	-0.9	-0.7	-0.7
50%	-1.0	-1.1	-1.1	-1.0	-0.9	-0.7	-1.1	-1.2	-1.1	-0.9	-0.8	-0.8
60%	-1.0	-1.2	-1.1	-1.1	-1.0	-0.8	-1.1	-1.2	-1.1	-0.9	-0.8	-0.8
70%	-1.0	-1.2	-1.2	-1.1	-1.0	-1.0	-1.2	-1.2	-1.1	-0.9	-0.8	-0.8
80%	-1.0	-1.2	-1.3	-1.2	-1.1	-1.2	-1.2	-1.3	-1.2	-1.0	-0.8	-0.8
90%	-1.1	-1.3	-1.4	-1.3	-1.2	-1.2	-1.4	-1.4	-1.2	-1.0	-0.9	-0.9
Long Term												
Full Simulation Period[a]	-0.9	-1.0	-0.9	-0.7	-0.4	-0.5	-0.9	-1.1	-1.0	-0.9	-0.8	-0.7
Water Year Types[b]												
Wet (31%)	-0.8	-0.5	-0.2	-0.3	0.6	0.7	-0.4	-0.8	-0.7	-0.7	-0.6	-0.4
Above Normal (25%)	-1.0	-1.1	-1.0	0.2	0.4	-0.1	-0.8	-1.0	-1.1	-0.9	-0.7	-0.8
Below Normal (6%)	-0.8	-1.1	-1.3	-0.8	-0.6	-0.6	-1.1	-1.1	-1.1	-1.0	-0.8	-0.8
Dry (13%)	-1.0	-1.2	-1.1	-1.2	-1.1	-0.9	-1.2	-1.2	-1.1	-0.9	-0.8	-0.8
Critical (25%)	-1.0	-1.1	-1.2	-1.2	-1.1	-1.1	-1.3	-1.3	-1.2	-0.9	-0.8	-0.8

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.3	-0.1	0.4	0.6	1.8	0.9	0.3	-0.3	-0.5	-0.2	-0.2	0.1
20%	-0.4	-0.5	-0.5	0.2	0.5	0.5	-0.5	-0.6	-0.6	-0.4	-0.2	-0.2
30%	-0.5	-0.6	-0.5	-0.1	0.2	0.0	-0.6	-0.7	-0.7	-0.4	-0.3	-0.3
40%	-0.5	-0.6	-0.6	-0.4	-0.3	-0.3	-0.6	-0.7	-0.7	-0.4	-0.3	-0.3
50%	-0.5	-0.6	-0.6	-0.6	-0.5	-0.3	-0.7	-0.7	-0.7	-0.5	-0.3	-0.3
60%	-0.5	-0.7	-0.7	-0.6	-0.5	-0.4	-0.7	-0.8	-0.7	-0.5	-0.4	-0.3
70%	-0.6	-0.8	-0.8	-0.7	-0.6	-0.6	-0.7	-0.8	-0.7	-0.5	-0.4	-0.3
80%	-0.6	-0.8	-0.9	-0.8	-0.7	-0.7	-0.8	-0.9	-0.7	-0.5	-0.4	-0.4
90%	-0.6	-0.8	-0.9	-0.9	-0.7	-0.8	-1.0	-0.9	-0.8	-0.6	-0.5	-0.4
Long Term												
Full Simulation Period[a]	-0.5	-0.6	-0.4	-0.3	0.0	0.0	-0.5	-0.7	-0.6	-0.4	-0.3	-0.2
Water Year Types[b]												
Wet (31%)	-0.3	-0.1	0.4	0.2	1.2	1.1	0.1	-0.4	-0.4	-0.2	-0.2	0.0
Above Normal (25%)	-0.5	-0.7	-0.6	0.6	0.9	0.4	-0.3	-0.5	-0.7	-0.4	-0.3	-0.3
Below Normal (6%)	-0.4	-0.6	-0.9	-0.3	-0.2	-0.2	-0.6	-0.7	-0.7	-0.5	-0.4	-0.4
Dry (13%)	-0.6	-0.7	-0.7	-0.7	-0.7	-0.5	-0.8	-0.7	-0.7	-0.5	-0.4	-0.4
Critical (25%)	-0.5	-0.7	-0.7	-0.7	-0.6	-0.7	-0.8	-0.9	-0.8	-0.5	-0.3	-0.3

No Action Alternative (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.4	0.4	0.5	0.4	0.6	0.4	0.5	0.4	0.4	0.4	0.4	0.5
20%	0.4	0.3	0.4	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4
30%	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5
40%	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.5	0.4	0.5
50%	0.4	0.5	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5
60%	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5
70%	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5
80%	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
90%	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Long Term												
Full Simulation Period[a]	0.4	0.4	0.5	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.5
Water Year Types[b]												
Wet (31%)	0.4	0.4	0.6	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.5
Above Normal (25%)	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.5
Below Normal (6%)	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Dry (13%)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Critical (25%)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

Table C-71-2-2. Sacramento River at Rio Vista, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.7	-0.5	-0.1	0.2	1.2	0.5	-0.2	-0.7	-0.9	-0.6	-0.6	-0.5
20%	-0.9	-0.8	-0.9	-0.3	0.0	0.1	-0.9	-1.0	-1.0	-0.8	-0.7	-0.6
30%	-0.9	-1.0	-1.0	-0.5	-0.3	-0.4	-1.0	-1.1	-1.1	-0.9	-0.7	-0.7
40%	-1.0	-1.0	-1.0	-0.8	-0.8	-0.7	-1.1	-1.1	-1.1	-0.9	-0.7	-0.7
50%	-1.0	-1.1	-1.1	-1.0	-0.9	-0.7	-1.1	-1.2	-1.1	-0.9	-0.8	-0.8
60%	-1.0	-1.2	-1.1	-1.1	-1.0	-0.8	-1.1	-1.2	-1.1	-0.9	-0.8	-0.8
70%	-1.0	-1.2	-1.2	-1.1	-1.0	-1.0	-1.2	-1.2	-1.1	-0.9	-0.8	-0.8
80%	-1.0	-1.2	-1.3	-1.2	-1.1	-1.2	-1.2	-1.3	-1.2	-1.0	-0.8	-0.8
90%	-1.1	-1.3	-1.4	-1.3	-1.2	-1.2	-1.4	-1.4	-1.2	-1.0	-0.9	-0.9
Long Term												
Full Simulation Period[a]	-0.9	-1.0	-0.9	-0.7	-0.4	-0.5	-0.9	-1.1	-1.0	-0.9	-0.8	-0.7
Water Year Types[b]												
Wet (31%)	-0.8	-0.5	-0.2	-0.3	0.6	0.7	-0.4	-0.8	-0.7	-0.7	-0.6	-0.4
Above Normal (25%)	-1.0	-1.1	-1.0	0.2	0.4	-0.1	-0.8	-1.0	-1.1	-0.9	-0.7	-0.8
Below Normal (6%)	-0.8	-1.1	-1.3	-0.8	-0.6	-0.6	-1.1	-1.1	-1.1	-1.0	-0.8	-0.8
Dry (13%)	-1.0	-1.2	-1.1	-1.2	-1.1	-0.9	-1.2	-1.2	-1.1	-0.9	-0.8	-0.8
Critical (25%)	-1.0	-1.1	-1.2	-1.2	-1.1	-1.1	-1.3	-1.3	-1.2	-0.9	-0.8	-0.8

Alternative 2D (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.2	-0.1	0.3	0.5	1.8	0.8	0.3	-0.3	-0.4	-0.2	-0.1	0.0
20%	-0.4	-0.4	-0.5	0.2	0.5	0.5	-0.5	-0.5	-0.6	-0.3	-0.2	-0.2
30%	-0.4	-0.5	-0.5	-0.1	0.2	0.0	-0.6	-0.6	-0.6	-0.4	-0.2	-0.2
40%	-0.5	-0.6	-0.5	-0.4	-0.3	-0.3	-0.6	-0.7	-0.6	-0.4	-0.3	-0.2
50%	-0.5	-0.6	-0.6	-0.5	-0.4	-0.3	-0.6	-0.7	-0.6	-0.4	-0.3	-0.3
60%	-0.5	-0.7	-0.6	-0.6	-0.5	-0.3	-0.7	-0.7	-0.6	-0.4	-0.3	-0.3
70%	-0.5	-0.7	-0.7	-0.6	-0.6	-0.6	-0.7	-0.7	-0.7	-0.5	-0.4	-0.3
80%	-0.5	-0.8	-0.8	-0.7	-0.6	-0.7	-0.7	-0.8	-0.7	-0.5	-0.4	-0.3
90%	-0.6	-0.8	-0.9	-0.8	-0.7	-0.7	-0.9	-0.9	-0.7	-0.6	-0.5	-0.4
Long Term												
Full Simulation Period[a]	-0.4	-0.5	-0.4	-0.3	0.1	0.0	-0.5	-0.6	-0.6	-0.4	-0.3	-0.2
Water Year Types[b]												
Wet (31%)	-0.3	-0.1	0.4	0.2	1.2	1.1	0.1	-0.4	-0.3	-0.2	-0.2	0.0
Above Normal (25%)	-0.5	-0.6	-0.5	0.5	1.0	0.4	-0.3	-0.5	-0.6	-0.4	-0.3	-0.3
Below Normal (6%)	-0.4	-0.6	-0.8	-0.3	-0.2	-0.2	-0.6	-0.7	-0.6	-0.5	-0.4	-0.4
Dry (13%)	-0.5	-0.7	-0.7	-0.7	-0.6	-0.5	-0.7	-0.7	-0.6	-0.5	-0.4	-0.3
Critical (25%)	-0.5	-0.6	-0.7	-0.7	-0.6	-0.7	-0.8	-0.8	-0.7	-0.4	-0.3	-0.3

Alternative 2D (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.5	0.4	0.4	0.3	0.6	0.4	0.4	0.4	0.4	0.5	0.5	0.5
20%	0.5	0.4	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.5
30%	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5
40%	0.5	0.5	0.5	0.4	0.5	0.4	0.5	0.5	0.5	0.5	0.4	0.5
50%	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5
60%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5
90%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Long Term												
Full Simulation Period[a]	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Water Year Types[b]												
Wet (31%)	0.5	0.4	0.5	0.5	0.5	0.4	0.5	0.4	0.4	0.4	0.4	0.5
Above Normal (25%)	0.5	0.5	0.5	0.3	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5
Below Normal (6%)	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.5
Dry (13%)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Critical (25%)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-71-2-3. Sacramento River at Rio Vista, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.7	-0.5	-0.1	0.2	1.2	0.5	-0.2	-0.7	-0.9	-0.6	-0.6	-0.5
20%	-0.9	-0.8	-0.9	-0.3	0.0	0.1	-0.9	-1.0	-1.0	-0.8	-0.7	-0.6
30%	-0.9	-1.0	-1.0	-0.5	-0.3	-0.4	-1.0	-1.1	-1.1	-0.9	-0.7	-0.7
40%	-1.0	-1.0	-1.0	-0.8	-0.8	-0.7	-1.1	-1.1	-1.1	-0.9	-0.7	-0.7
50%	-1.0	-1.1	-1.1	-1.0	-0.9	-0.7	-1.1	-1.2	-1.1	-0.9	-0.8	-0.8
60%	-1.0	-1.2	-1.1	-1.1	-1.0	-0.8	-1.1	-1.2	-1.1	-0.9	-0.8	-0.8
70%	-1.0	-1.2	-1.2	-1.1	-1.0	-1.0	-1.2	-1.2	-1.1	-0.9	-0.8	-0.8
80%	-1.0	-1.2	-1.3	-1.2	-1.1	-1.2	-1.2	-1.3	-1.2	-1.0	-0.8	-0.8
90%	-1.1	-1.3	-1.4	-1.3	-1.2	-1.2	-1.4	-1.4	-1.2	-1.0	-0.9	-0.9
Long Term												
Full Simulation Period[a]	-0.9	-1.0	-0.9	-0.7	-0.4	-0.5	-0.9	-1.1	-1.0	-0.9	-0.8	-0.7
Water Year Types[b]												
Wet (31%)	-0.8	-0.5	-0.2	-0.3	0.6	0.7	-0.4	-0.8	-0.7	-0.7	-0.6	-0.4
Above Normal (25%)	-1.0	-1.1	-1.0	0.2	0.4	-0.1	-0.8	-1.0	-1.1	-0.9	-0.7	-0.8
Below Normal (6%)	-0.8	-1.1	-1.3	-0.8	-0.6	-0.6	-1.1	-1.1	-1.1	-1.0	-0.8	-0.8
Dry (13%)	-1.0	-1.2	-1.1	-1.2	-1.1	-0.9	-1.2	-1.2	-1.1	-0.9	-0.8	-0.8
Critical (25%)	-1.0	-1.1	-1.2	-1.2	-1.1	-1.1	-1.3	-1.3	-1.2	-0.9	-0.8	-0.8

Alternative 4A (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.3	-0.1	0.3	0.5	1.8	0.9	0.3	-0.3	-0.5	-0.2	-0.2	0.0
20%	-0.4	-0.5	-0.5	0.1	0.5	0.5	-0.5	-0.6	-0.6	-0.4	-0.2	-0.2
30%	-0.5	-0.6	-0.5	-0.1	0.1	0.0	-0.6	-0.7	-0.7	-0.4	-0.3	-0.3
40%	-0.5	-0.6	-0.6	-0.4	-0.3	-0.3	-0.6	-0.7	-0.7	-0.5	-0.3	-0.3
50%	-0.5	-0.6	-0.6	-0.6	-0.5	-0.3	-0.7	-0.7	-0.7	-0.5	-0.4	-0.3
60%	-0.5	-0.7	-0.7	-0.6	-0.5	-0.4	-0.7	-0.8	-0.7	-0.5	-0.4	-0.3
70%	-0.5	-0.8	-0.7	-0.7	-0.6	-0.6	-0.7	-0.8	-0.7	-0.5	-0.4	-0.4
80%	-0.6	-0.8	-0.9	-0.8	-0.7	-0.7	-0.8	-0.9	-0.7	-0.6	-0.4	-0.4
90%	-0.6	-0.8	-0.9	-0.8	-0.7	-0.8	-1.0	-0.9	-0.8	-0.6	-0.5	-0.4
Long Term												
Full Simulation Period[a]	-0.5	-0.6	-0.5	-0.3	0.0	-0.1	-0.5	-0.7	-0.6	-0.4	-0.3	-0.3
Water Year Types[b]												
Wet (31%)	-0.4	-0.1	0.3	0.2	1.1	1.1	0.1	-0.4	-0.4	-0.3	-0.2	0.0
Above Normal (25%)	-0.5	-0.7	-0.6	0.5	0.9	0.4	-0.3	-0.6	-0.7	-0.5	-0.3	-0.3
Below Normal (6%)	-0.4	-0.6	-0.9	-0.3	-0.2	-0.2	-0.6	-0.7	-0.7	-0.6	-0.4	-0.4
Dry (13%)	-0.6	-0.7	-0.7	-0.7	-0.7	-0.5	-0.8	-0.7	-0.7	-0.5	-0.4	-0.4
Critical (25%)	-0.5	-0.7	-0.7	-0.7	-0.6	-0.7	-0.8	-0.9	-0.8	-0.5	-0.3	-0.3

Alternative 4A (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.4	0.4	0.4	0.3	0.6	0.4	0.4	0.4	0.4	0.4	0.4	0.5
20%	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
30%	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
40%	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.5
50%	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
60%	0.4	0.5	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5
70%	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
80%	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
90%	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Long Term												
Full Simulation Period[a]	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Water Year Types[b]												
Wet (31%)	0.4	0.4	0.5	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.5
Above Normal (25%)	0.4	0.4	0.4	0.3	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.5
Below Normal (6%)	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Dry (13%)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Critical (25%)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-71-2-4. Sacramento River at Rio Vista, Monthly Averaged Daily Minimum Elevation

Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.7	-0.5	-0.1	0.2	1.2	0.5	-0.2	-0.7	-0.9	-0.6	-0.6	-0.5
20%	-0.9	-0.8	-0.9	-0.3	0.0	0.1	-0.9	-1.0	-1.0	-0.8	-0.7	-0.6
30%	-0.9	-1.0	-1.0	-0.5	-0.3	-0.4	-1.0	-1.1	-1.1	-0.9	-0.7	-0.7
40%	-1.0	-1.0	-1.0	-0.8	-0.8	-0.7	-1.1	-1.1	-1.1	-0.9	-0.7	-0.7
50%	-1.0	-1.1	-1.1	-1.0	-0.9	-0.7	-1.1	-1.2	-1.1	-0.9	-0.8	-0.8
60%	-1.0	-1.2	-1.1	-1.1	-1.0	-0.8	-1.1	-1.2	-1.1	-0.9	-0.8	-0.8
70%	-1.0	-1.2	-1.2	-1.1	-1.0	-1.0	-1.2	-1.2	-1.1	-0.9	-0.8	-0.8
80%	-1.0	-1.2	-1.3	-1.2	-1.1	-1.2	-1.2	-1.3	-1.2	-1.0	-0.8	-0.8
90%	-1.1	-1.3	-1.4	-1.3	-1.2	-1.2	-1.4	-1.4	-1.2	-1.0	-0.9	-0.9
Long Term												
Full Simulation Period[a]	-0.9	-1.0	-0.9	-0.7	-0.4	-0.5	-0.9	-1.1	-1.0	-0.9	-0.8	-0.7
Water Year Types[b]												
Wet (31%)	-0.8	-0.5	-0.2	-0.3	0.6	0.7	-0.4	-0.8	-0.7	-0.7	-0.6	-0.4
Above Normal (25%)	-1.0	-1.1	-1.0	0.2	0.4	-0.1	-0.8	-1.0	-1.1	-0.9	-0.7	-0.8
Below Normal (6%)	-0.8	-1.1	-1.3	-0.8	-0.6	-0.6	-1.1	-1.1	-1.1	-1.0	-0.8	-0.8
Dry (13%)	-1.0	-1.2	-1.1	-1.2	-1.1	-0.9	-1.2	-1.2	-1.1	-0.9	-0.8	-0.8
Critical (25%)	-1.0	-1.1	-1.2	-1.2	-1.1	-1.1	-1.3	-1.3	-1.2	-0.9	-0.8	-0.8

Alternative 5A (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.2	0.0	0.4	0.6	1.8	0.9	0.3	-0.3	-0.4	-0.2	-0.1	0.1
20%	-0.4	-0.4	-0.5	0.2	0.5	0.5	-0.5	-0.6	-0.6	-0.3	-0.2	-0.2
30%	-0.4	-0.5	-0.5	0.0	0.2	0.0	-0.6	-0.6	-0.6	-0.4	-0.2	-0.2
40%	-0.5	-0.6	-0.5	-0.4	-0.3	-0.2	-0.6	-0.7	-0.6	-0.4	-0.3	-0.2
50%	-0.5	-0.6	-0.6	-0.5	-0.5	-0.3	-0.6	-0.7	-0.6	-0.4	-0.3	-0.3
60%	-0.5	-0.7	-0.6	-0.6	-0.5	-0.3	-0.7	-0.7	-0.6	-0.4	-0.3	-0.3
70%	-0.5	-0.7	-0.7	-0.6	-0.6	-0.6	-0.7	-0.7	-0.7	-0.5	-0.4	-0.3
80%	-0.5	-0.8	-0.8	-0.8	-0.6	-0.7	-0.7	-0.8	-0.7	-0.5	-0.4	-0.3
90%	-0.6	-0.8	-0.9	-0.8	-0.7	-0.7	-0.9	-0.9	-0.7	-0.5	-0.5	-0.4
Long Term												
Full Simulation Period[a]	-0.4	-0.5	-0.4	-0.3	0.1	0.0	-0.5	-0.6	-0.6	-0.4	-0.3	-0.2
Water Year Types[b]												
Wet (31%)	-0.3	-0.1	0.4	0.2	1.2	1.1	0.1	-0.3	-0.3	-0.2	-0.2	0.1
Above Normal (25%)	-0.5	-0.6	-0.5	0.6	0.9	0.4	-0.3	-0.5	-0.6	-0.4	-0.3	-0.3
Below Normal (6%)	-0.4	-0.6	-0.8	-0.3	-0.2	-0.2	-0.6	-0.7	-0.6	-0.5	-0.4	-0.4
Dry (13%)	-0.5	-0.7	-0.7	-0.7	-0.6	-0.5	-0.7	-0.7	-0.6	-0.5	-0.4	-0.3
Critical (25%)	-0.5	-0.6	-0.7	-0.7	-0.6	-0.6	-0.8	-0.8	-0.7	-0.4	-0.3	-0.3

Alternative 5A (ELT) minus Existing Condition

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.5	0.4	0.5	0.4	0.6	0.5	0.5	0.4	0.4	0.5	0.5	0.5
20%	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
30%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
40%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
50%	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5
60%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
90%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Long Term												
Full Simulation Period[a]	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Water Year Types[b]												
Wet (31%)	0.5	0.4	0.6	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.5	0.5
Above Normal (25%)	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Below Normal (6%)	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5
Dry (13%)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Critical (25%)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-71-2-5. Sacramento River at Rio Vista, Monthly Averaged Daily Minimum Elevation

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.3	-0.1	0.4	0.6	1.8	0.9	0.3	-0.3	-0.5	-0.2	-0.2	0.1
20%	-0.4	-0.5	-0.5	0.2	0.5	0.5	-0.5	-0.6	-0.6	-0.4	-0.2	-0.2
30%	-0.5	-0.6	-0.5	-0.1	0.2	0.0	-0.6	-0.7	-0.7	-0.4	-0.3	-0.3
40%	-0.5	-0.6	-0.6	-0.4	-0.3	-0.3	-0.6	-0.7	-0.7	-0.4	-0.3	-0.3
50%	-0.5	-0.6	-0.6	-0.6	-0.5	-0.3	-0.7	-0.7	-0.7	-0.5	-0.3	-0.3
60%	-0.5	-0.7	-0.7	-0.6	-0.5	-0.4	-0.7	-0.8	-0.7	-0.5	-0.4	-0.3
70%	-0.6	-0.8	-0.8	-0.7	-0.6	-0.6	-0.7	-0.8	-0.7	-0.5	-0.4	-0.3
80%	-0.6	-0.8	-0.9	-0.8	-0.7	-0.7	-0.8	-0.9	-0.7	-0.5	-0.4	-0.4
90%	-0.6	-0.8	-0.9	-0.9	-0.7	-0.8	-1.0	-0.9	-0.8	-0.6	-0.5	-0.4
Long Term												
Full Simulation Period[a]	-0.5	-0.6	-0.4	-0.3	0.0	0.0	-0.5	-0.7	-0.6	-0.4	-0.3	-0.2
Water Year Types[b]												
Wet (31%)	-0.3	-0.1	0.4	0.2	1.2	1.1	0.1	-0.4	-0.4	-0.2	-0.2	0.0
Above Normal (25%)	-0.5	-0.7	-0.6	0.6	0.9	0.4	-0.3	-0.5	-0.7	-0.4	-0.3	-0.3
Below Normal (6%)	-0.4	-0.6	-0.9	-0.3	-0.2	-0.2	-0.6	-0.7	-0.7	-0.5	-0.4	-0.4
Dry (13%)	-0.6	-0.7	-0.7	-0.7	-0.7	-0.5	-0.8	-0.7	-0.7	-0.5	-0.4	-0.4
Critical (25%)	-0.5	-0.7	-0.7	-0.7	-0.6	-0.7	-0.8	-0.9	-0.8	-0.5	-0.3	-0.3

Alternative 2D (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.2	-0.1	0.3	0.5	1.8	0.8	0.3	-0.3	-0.4	-0.2	-0.1	0.0
20%	-0.4	-0.4	-0.5	0.2	0.5	0.5	-0.5	-0.5	-0.6	-0.3	-0.2	-0.2
30%	-0.4	-0.5	-0.5	-0.1	0.2	0.0	-0.6	-0.6	-0.6	-0.4	-0.2	-0.2
40%	-0.5	-0.6	-0.5	-0.4	-0.3	-0.3	-0.6	-0.7	-0.6	-0.4	-0.3	-0.2
50%	-0.5	-0.6	-0.6	-0.5	-0.4	-0.3	-0.6	-0.7	-0.6	-0.4	-0.3	-0.3
60%	-0.5	-0.7	-0.6	-0.6	-0.5	-0.3	-0.7	-0.7	-0.6	-0.4	-0.3	-0.3
70%	-0.5	-0.7	-0.7	-0.6	-0.6	-0.6	-0.7	-0.7	-0.7	-0.5	-0.4	-0.3
80%	-0.5	-0.8	-0.8	-0.7	-0.6	-0.7	-0.7	-0.8	-0.7	-0.5	-0.4	-0.3
90%	-0.6	-0.8	-0.9	-0.8	-0.7	-0.7	-0.9	-0.9	-0.7	-0.6	-0.5	-0.4
Long Term												
Full Simulation Period[a]	-0.4	-0.5	-0.4	-0.3	0.1	0.0	-0.5	-0.6	-0.6	-0.4	-0.3	-0.2
Water Year Types[b]												
Wet (31%)	-0.3	-0.1	0.4	0.2	1.2	1.1	0.1	-0.4	-0.3	-0.2	-0.2	0.0
Above Normal (25%)	-0.5	-0.6	-0.5	0.5	1.0	0.4	-0.3	-0.5	-0.6	-0.4	-0.3	-0.3
Below Normal (6%)	-0.4	-0.6	-0.8	-0.3	-0.2	-0.2	-0.6	-0.7	-0.6	-0.5	-0.4	-0.4
Dry (13%)	-0.5	-0.7	-0.7	-0.7	-0.6	-0.5	-0.7	-0.7	-0.6	-0.5	-0.4	-0.3
Critical (25%)	-0.5	-0.6	-0.7	-0.7	-0.6	-0.7	-0.8	-0.8	-0.7	-0.4	-0.3	-0.3

Alternative 2D (ELT) minus No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.0	0.0	**-0.1**	**-0.1**	0.0	**-0.1**	**0.0**	**0.0**	0.0	0.0	0.0	**0.0**
20%	0.1	0.0	0.0	0.0	0.0	**-0.1**	0.0	0.1	0.1	0.0	0.0	0.0
30%	0.0	0.1	0.1	0.0	**0.0**	0.0	0.0	0.1	0.1	0.0	0.0	0.0
40%	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0
50%	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0
60%	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0
70%	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0
80%	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
90%	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
Long Term												
Full Simulation Period[a]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Water Year Types[b]												
Wet (31%)	0.0	0.0	**0.0**	0.0	**0.0**	**0.0**	**0.0**	0.0	0.0	0.0	0.0	0.0
Above Normal (25%)	0.1	0.0	0.0	**-0.1**	0.0	0.0	**0.0**	0.0	0.1	0.0	0.0	0.0
Below Normal (6%)	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
Dry (13%)	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0
Critical (25%)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-71-2-6. Sacramento River at Rio Vista, Monthly Averaged Daily Minimum Elevation

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.3	-0.1	0.4	0.6	1.8	0.9	0.3	-0.3	-0.5	-0.2	-0.2	0.1
20%	-0.4	-0.5	-0.5	0.2	0.5	0.5	-0.5	-0.6	-0.6	-0.4	-0.2	-0.2
30%	-0.5	-0.6	-0.5	-0.1	0.2	0.0	-0.6	-0.7	-0.7	-0.4	-0.3	-0.3
40%	-0.5	-0.6	-0.6	-0.4	-0.3	-0.3	-0.6	-0.7	-0.7	-0.4	-0.3	-0.3
50%	-0.5	-0.6	-0.6	-0.6	-0.5	-0.3	-0.7	-0.7	-0.7	-0.5	-0.3	-0.3
60%	-0.5	-0.7	-0.7	-0.6	-0.5	-0.4	-0.7	-0.8	-0.7	-0.5	-0.4	-0.3
70%	-0.6	-0.8	-0.8	-0.7	-0.6	-0.6	-0.7	-0.8	-0.7	-0.5	-0.4	-0.3
80%	-0.6	-0.8	-0.9	-0.8	-0.7	-0.7	-0.8	-0.9	-0.7	-0.5	-0.4	-0.4
90%	-0.6	-0.8	-0.9	-0.9	-0.7	-0.8	-1.0	-0.9	-0.8	-0.6	-0.5	-0.4
Long Term												
Full Simulation Period[a]	-0.5	-0.6	-0.4	-0.3	0.0	0.0	-0.5	-0.7	-0.6	-0.4	-0.3	-0.2
Water Year Types[b]												
Wet (31%)	-0.3	-0.1	0.4	0.2	1.2	1.1	0.1	-0.4	-0.4	-0.2	-0.2	0.0
Above Normal (25%)	-0.5	-0.7	-0.6	0.6	0.9	0.4	-0.3	-0.5	-0.7	-0.4	-0.3	-0.3
Below Normal (6%)	-0.4	-0.6	-0.9	-0.3	-0.2	-0.2	-0.6	-0.7	-0.7	-0.5	-0.4	-0.4
Dry (13%)	-0.6	-0.7	-0.7	-0.7	-0.7	-0.5	-0.8	-0.7	-0.7	-0.5	-0.4	-0.4
Critical (25%)	-0.5	-0.7	-0.7	-0.7	-0.6	-0.7	-0.8	-0.9	-0.8	-0.5	-0.3	-0.3

Alternative 4A (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.3	-0.1	0.3	0.5	1.8	0.9	0.3	-0.3	-0.5	-0.2	-0.2	0.0
20%	-0.4	-0.5	-0.5	0.1	0.5	0.5	-0.5	-0.6	-0.6	-0.4	-0.2	-0.2
30%	-0.5	-0.6	-0.5	-0.1	0.1	0.0	-0.6	-0.7	-0.7	-0.4	-0.3	-0.3
40%	-0.5	-0.6	-0.6	-0.4	-0.3	-0.3	-0.6	-0.7	-0.7	-0.5	-0.3	-0.3
50%	-0.5	-0.6	-0.6	-0.6	-0.5	-0.3	-0.7	-0.7	-0.7	-0.5	-0.4	-0.3
60%	-0.5	-0.7	-0.7	-0.6	-0.5	-0.4	-0.7	-0.8	-0.7	-0.5	-0.4	-0.3
70%	-0.5	-0.8	-0.7	-0.7	-0.6	-0.6	-0.7	-0.8	-0.7	-0.5	-0.4	-0.4
80%	-0.6	-0.8	-0.9	-0.8	-0.7	-0.7	-0.8	-0.9	-0.7	-0.6	-0.4	-0.4
90%	-0.6	-0.8	-0.9	-0.8	-0.7	-0.8	-1.0	-0.9	-0.8	-0.6	-0.5	-0.4
Long Term												
Full Simulation Period[a]	-0.5	-0.6	-0.5	-0.3	0.0	-0.1	-0.5	-0.7	-0.6	-0.4	-0.3	-0.3
Water Year Types[b]												
Wet (31%)	-0.4	-0.1	0.3	0.2	1.1	1.1	0.1	-0.4	-0.4	-0.3	-0.2	0.0
Above Normal (25%)	-0.5	-0.7	-0.6	0.5	0.9	0.4	-0.3	-0.6	-0.7	-0.5	-0.3	-0.3
Below Normal (6%)	-0.4	-0.6	-0.9	-0.3	-0.2	-0.2	-0.6	-0.7	-0.7	-0.6	-0.4	-0.4
Dry (13%)	-0.6	-0.7	-0.7	-0.7	-0.7	-0.5	-0.8	-0.7	-0.7	-0.5	-0.4	-0.4
Critical (25%)	-0.5	-0.7	-0.7	-0.7	-0.6	-0.7	-0.8	-0.9	-0.8	-0.5	-0.3	-0.3

Alternative 4A (ELT) minus No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.0	0.0	-0.1	-0.1	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0
20%	0.0	0.0	0.0	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0
30%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Long Term												
Full Simulation Period[a]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Water Year Types[b]												
Wet (31%)	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Above Normal (25%)	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Below Normal (6%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dry (13%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Critical (25%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-71-2-7. Sacramento River at Rio Vista, Monthly Averaged Daily Minimum Elevation

No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.3	-0.1	0.4	0.6	1.8	0.9	0.3	-0.3	-0.5	-0.2	-0.2	0.1
20%	-0.4	-0.5	-0.5	0.2	0.5	0.5	-0.5	-0.6	-0.6	-0.4	-0.2	-0.2
30%	-0.5	-0.6	-0.5	-0.1	0.2	0.0	-0.6	-0.7	-0.7	-0.4	-0.3	-0.3
40%	-0.5	-0.6	-0.6	-0.4	-0.3	-0.3	-0.6	-0.7	-0.7	-0.4	-0.3	-0.3
50%	-0.5	-0.6	-0.6	-0.6	-0.5	-0.3	-0.7	-0.7	-0.7	-0.5	-0.3	-0.3
60%	-0.5	-0.7	-0.7	-0.6	-0.5	-0.4	-0.7	-0.8	-0.7	-0.5	-0.4	-0.3
70%	-0.6	-0.8	-0.8	-0.7	-0.6	-0.6	-0.7	-0.8	-0.7	-0.5	-0.4	-0.3
80%	-0.6	-0.8	-0.9	-0.8	-0.7	-0.7	-0.8	-0.9	-0.7	-0.5	-0.4	-0.4
90%	-0.6	-0.8	-0.9	-0.9	-0.7	-0.8	-1.0	-0.9	-0.8	-0.6	-0.5	-0.4
Long Term												
Full Simulation Period[a]	-0.5	-0.6	-0.4	-0.3	0.0	0.0	-0.5	-0.7	-0.6	-0.4	-0.3	-0.2
Water Year Types[b]												
Wet (31%)	-0.3	-0.1	0.4	0.2	1.2	1.1	0.1	-0.4	-0.4	-0.2	-0.2	0.0
Above Normal (25%)	-0.5	-0.7	-0.6	0.6	0.9	0.4	-0.3	-0.5	-0.7	-0.4	-0.3	-0.3
Below Normal (6%)	-0.4	-0.6	-0.9	-0.3	-0.2	-0.2	-0.6	-0.7	-0.7	-0.5	-0.4	-0.4
Dry (13%)	-0.6	-0.7	-0.7	-0.7	-0.7	-0.5	-0.8	-0.7	-0.7	-0.5	-0.4	-0.4
Critical (25%)	-0.5	-0.7	-0.7	-0.7	-0.6	-0.7	-0.8	-0.9	-0.8	-0.5	-0.3	-0.3

Alternative 5A (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.2	0.0	0.4	0.6	1.8	0.9	0.3	-0.3	-0.4	-0.2	-0.1	0.1
20%	-0.4	-0.4	-0.5	0.2	0.5	0.5	-0.5	-0.6	-0.6	-0.3	-0.2	-0.2
30%	-0.4	-0.5	-0.5	0.0	0.2	0.0	-0.6	-0.6	-0.6	-0.4	-0.2	-0.2
40%	-0.5	-0.6	-0.5	-0.4	-0.3	-0.2	-0.6	-0.7	-0.6	-0.4	-0.3	-0.2
50%	-0.5	-0.6	-0.6	-0.5	-0.5	-0.3	-0.6	-0.7	-0.6	-0.4	-0.3	-0.3
60%	-0.5	-0.7	-0.6	-0.6	-0.5	-0.3	-0.7	-0.7	-0.6	-0.4	-0.3	-0.3
70%	-0.5	-0.7	-0.7	-0.6	-0.6	-0.6	-0.7	-0.7	-0.7	-0.5	-0.4	-0.3
80%	-0.5	-0.8	-0.8	-0.8	-0.6	-0.7	-0.7	-0.8	-0.7	-0.5	-0.4	-0.3
90%	-0.6	-0.8	-0.9	-0.8	-0.7	-0.7	-0.9	-0.9	-0.7	-0.5	-0.5	-0.4
Long Term												
Full Simulation Period[a]	-0.4	-0.5	-0.4	-0.3	0.1	0.0	-0.5	-0.6	-0.6	-0.4	-0.3	-0.2
Water Year Types[b]												
Wet (31%)	-0.3	-0.1	0.4	0.2	1.2	1.1	0.1	-0.3	-0.3	-0.2	-0.2	0.1
Above Normal (25%)	-0.5	-0.6	-0.5	0.6	0.9	0.4	-0.3	-0.5	-0.6	-0.4	-0.3	-0.3
Below Normal (6%)	-0.4	-0.6	-0.8	-0.3	-0.2	-0.2	-0.6	-0.7	-0.6	-0.5	-0.4	-0.4
Dry (13%)	-0.5	-0.7	-0.7	-0.7	-0.6	-0.5	-0.7	-0.7	-0.6	-0.5	-0.4	-0.3
Critical (25%)	-0.5	-0.6	-0.7	-0.7	-0.6	-0.6	-0.8	-0.8	-0.7	-0.4	-0.3	-0.3

Alternative 5A (ELT) minus No Action Alternative (ELT)

Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.0	0.0	**0.0**	**0.0**	**0.0**	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20%	0.0	0.0	0.0	**0.0**	**0.0**	0.0	0.0	0.1	0.0	0.0	0.0	0.0
30%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50%	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
60%	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.1	0.1	0.0	0.0	0.0
70%	0.0	0.1	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.0
80%	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
90%	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
Long Term												
Full Simulation Period[a]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Water Year Types[b]												
Wet (31%)	0.0	0.0	0.0	0.0	**0.0**	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Above Normal (25%)	0.0	0.0	0.0	**0.0**	**0.0**	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Below Normal (6%)	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
Dry (13%)	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0
Critical (25%)	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

C.72. Sacramento River at Emmaton Salinity

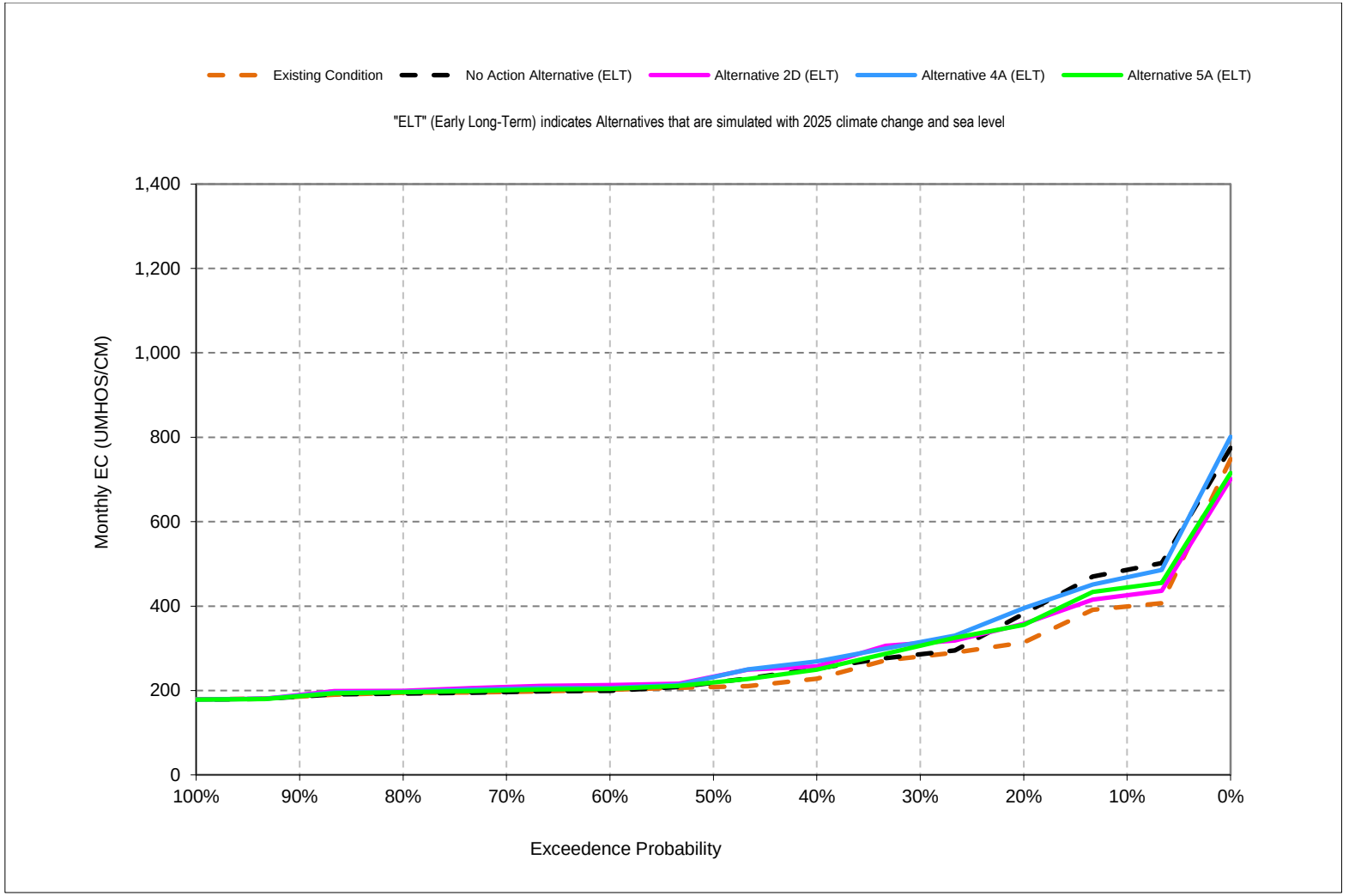


Figure C-72-4. Sacramento River at Emmaton, April EC

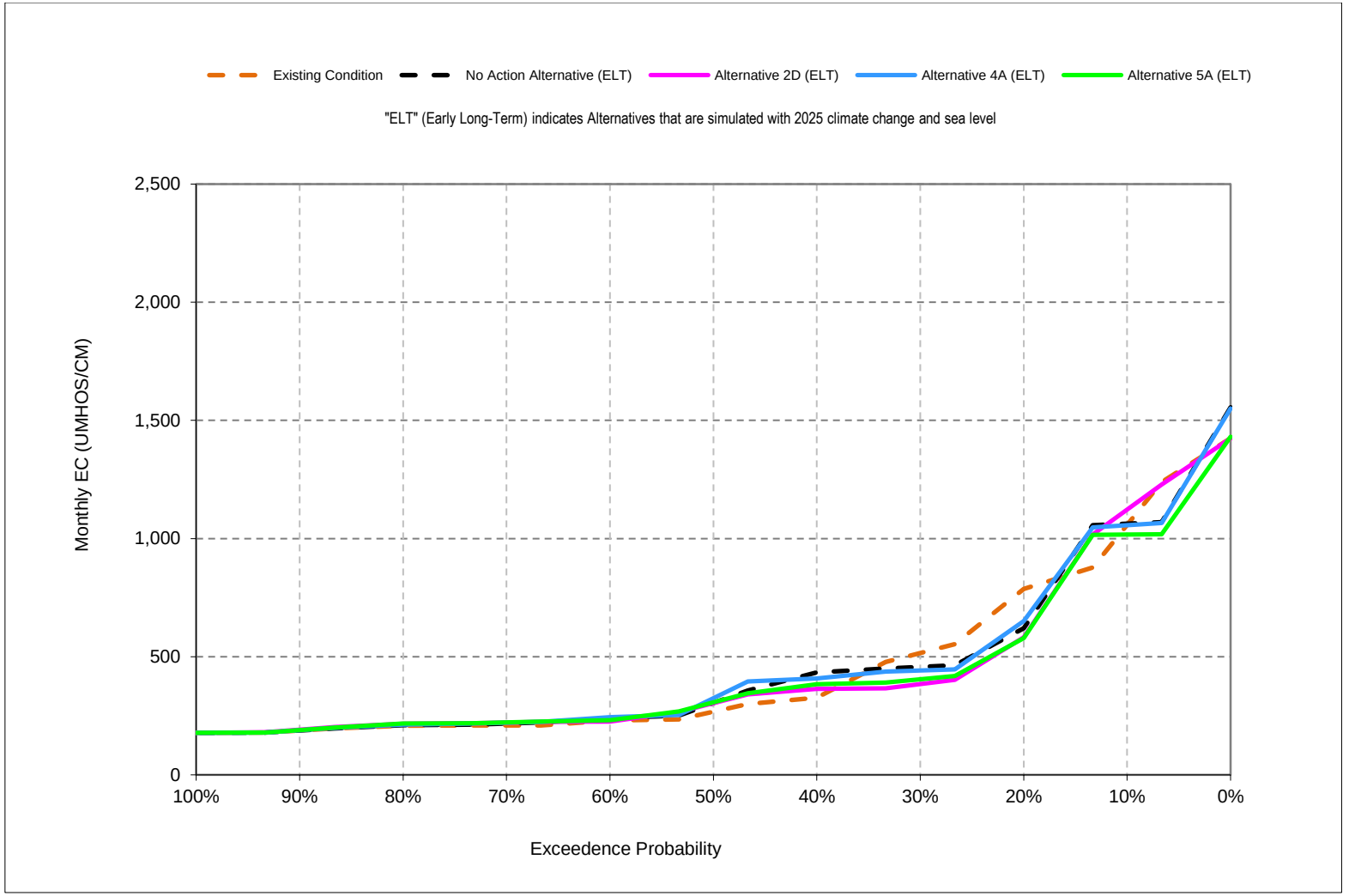


Figure C-72-5. Sacramento River at Emmaton, May EC

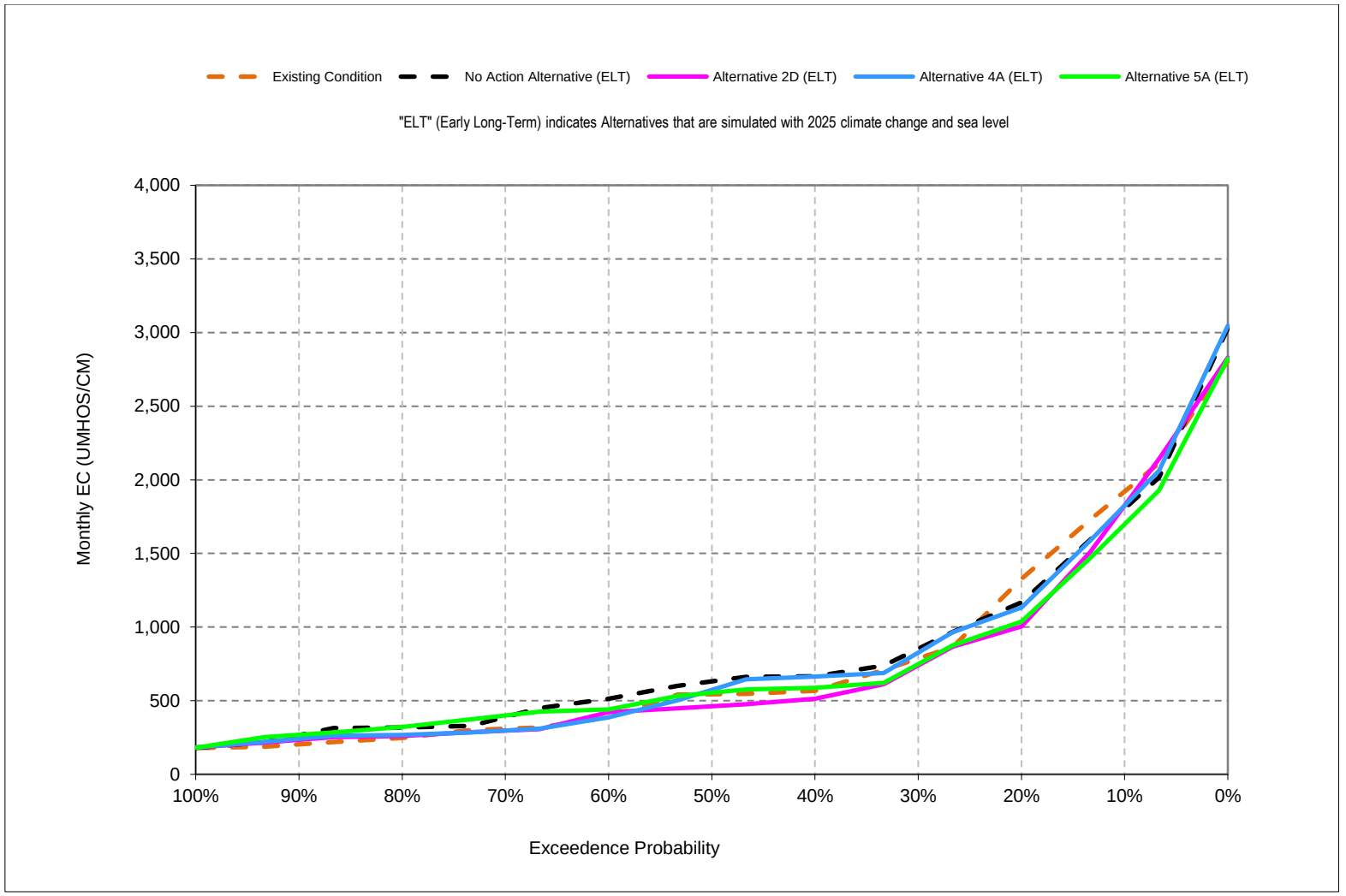


Figure C-72-6. Sacramento River at Emmaton, June EC

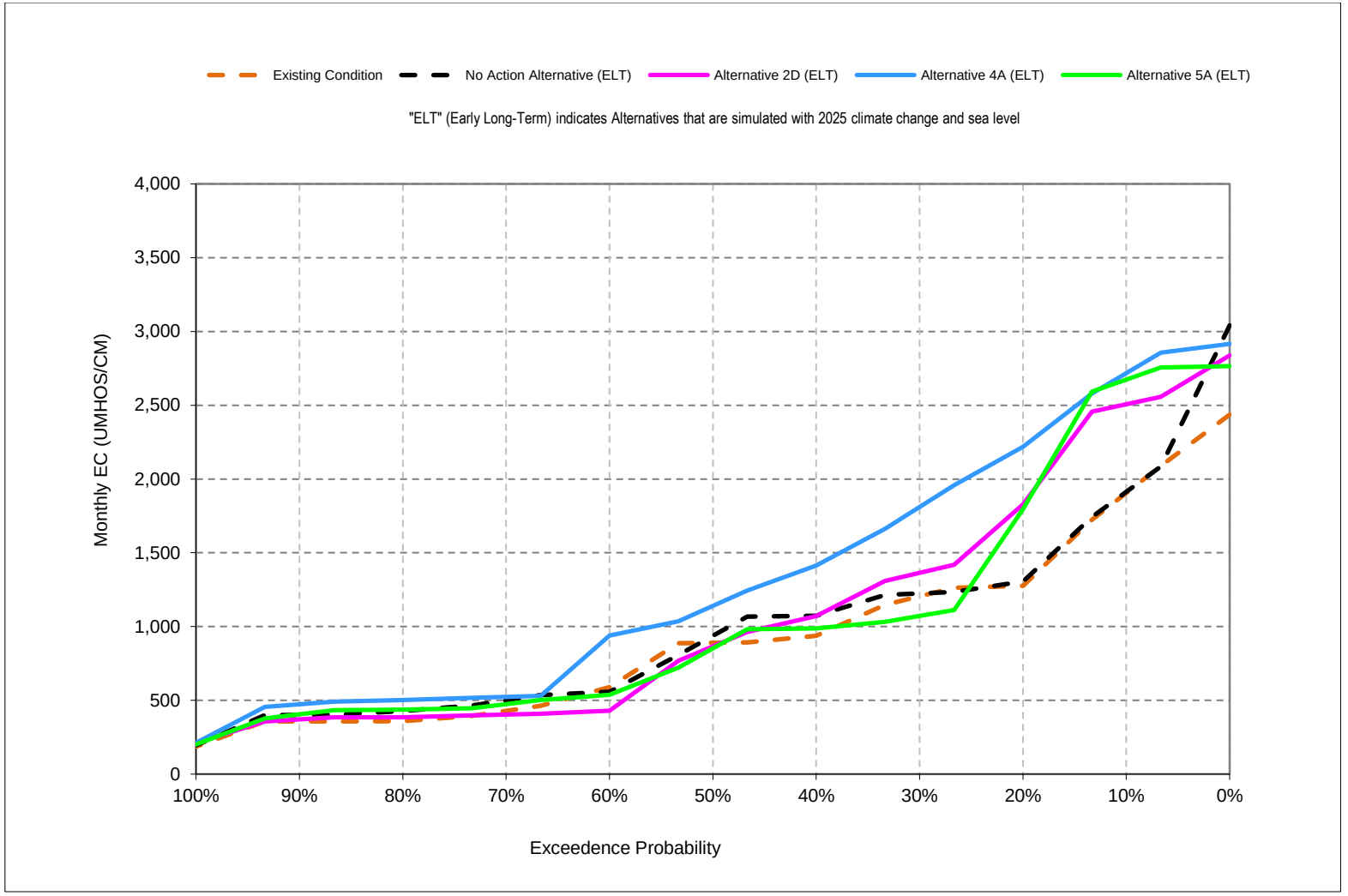


Figure C-72-7. Sacramento River at Emmaton, July EC

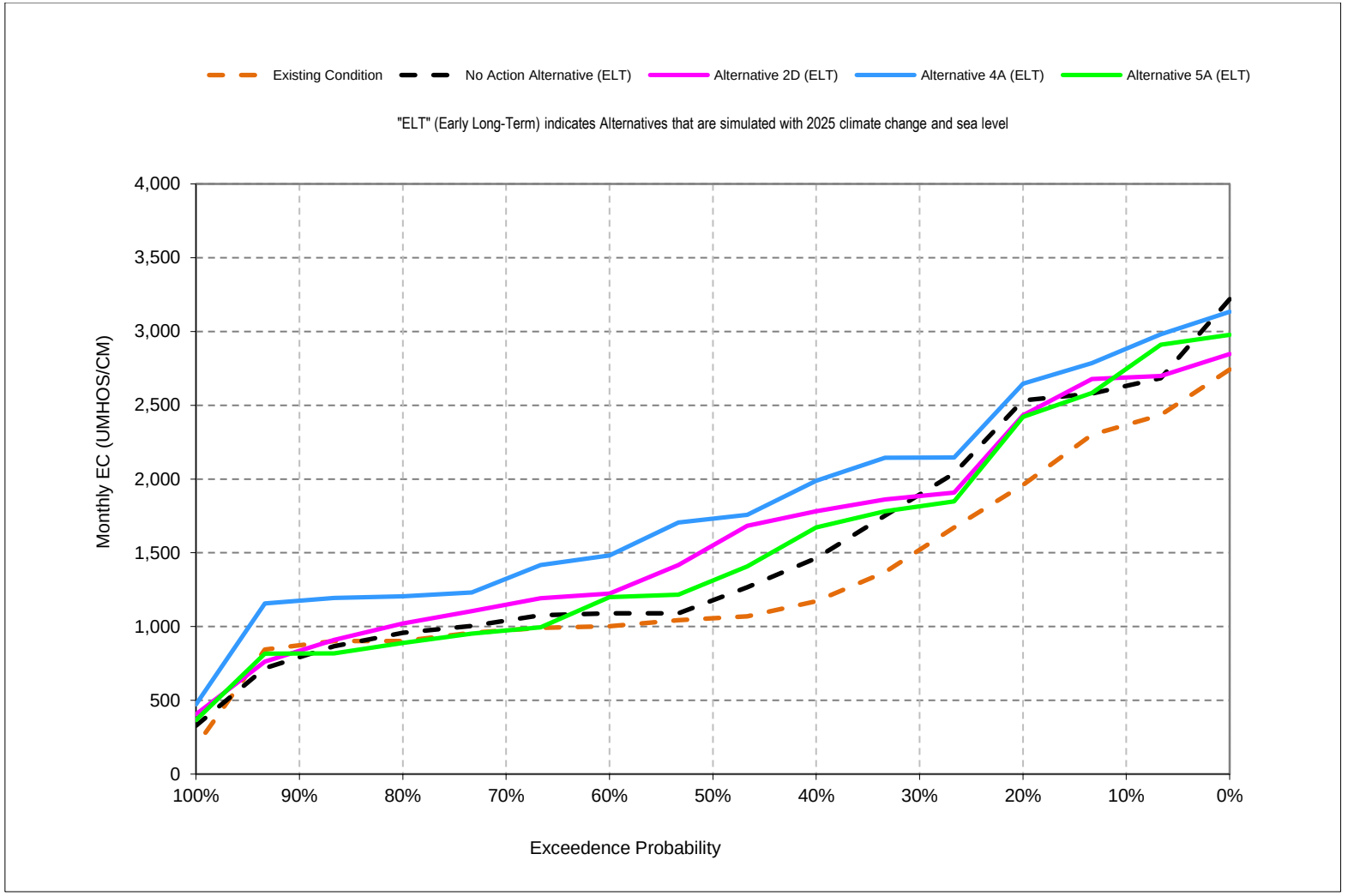


Figure C-72-8. Sacramento River at Emmaton, August EC

Table C-72-1. Sacramento River at Emmaton, Monthly EC

Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,462	3,217	2,195	1,281	947	429	399	1,058	1,921	1,906	2,367	3,248
20%	2,966	2,928	1,950	872	616	295	314	787	1,328	1,275	1,961	3,130
30%	2,828	2,711	1,919	794	321	263	281	516	787	1,205	1,521	2,583
40%	2,685	2,585	1,806	576	285	230	228	327	568	938	1,172	2,358
50%	2,477	2,560	1,023	472	236	206	208	268	545	890	1,057	2,179
60%	2,022	2,463	830	281	199	192	202	231	388	589	1,003	1,986
70%	1,607	1,448	789	249	192	189	197	209	311	430	974	1,791
80%	1,444	741	204	198	186	185	195	208	247	359	902	1,595
90%	336	389	182	194	184	182	186	188	205	357	873	836
Long Term												
Full Simulation Period[a]	2,182	2,096	1,250	613	405	271	275	477	816	960	1,347	2,134
Water Year Types[b]												
Wet (31%)	1,414	1,125	337	245	184	183	190	200	265	351	758	1,026
Above Normal (25%)	3,219	2,485	1,408	222	194	188	195	202	234	358	986	1,594
Below Normal (6%)	1,624	2,548	2,161	787	242	193	206	209	319	589	957	2,358
Dry (13%)	2,097	2,443	1,385	643	422	219	230	335	592	966	1,122	2,123
Critical (25%)	2,560	2,349	1,626	1,004	685	431	426	976	1,768	1,757	2,222	3,199

No Action Alternative (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,257	4,183	2,720	964	832	565	486	1,063	1,805	1,914	2,631	3,625
20%	3,468	3,436	2,209	897	610	390	382	621	1,168	1,306	2,532	3,487
30%	3,079	3,273	1,558	737	361	308	286	457	853	1,226	1,895	3,000
40%	3,003	2,240	929	660	321	230	252	434	666	1,074	1,465	2,714
50%	2,803	1,785	860	508	287	214	219	304	632	938	1,179	2,364
60%	681	679	731	353	203	196	199	239	513	559	1,089	1,774
70%	460	506	603	255	192	190	197	218	391	501	1,041	634
80%	281	331	233	196	184	183	193	211	318	429	958	440
90%	264	225	181	192	183	181	186	188	267	402	792	356
Long Term												
Full Simulation Period[a]	2,114	1,942	1,260	607	403	300	295	481	860	1,035	1,542	2,051
Water Year Types[b]												
Wet (31%)	1,610	1,305	341	241	183	183	189	205	341	357	795	339
Above Normal (25%)	3,648	3,085	1,569	221	192	187	194	203	322	512	1,084	634
Below Normal (6%)	681	679	896	620	258	196	209	222	318	808	1,465	2,687
Dry (13%)	1,371	1,376	1,044	681	395	236	237	370	667	973	1,272	2,362
Critical (25%)	2,786	2,699	2,117	991	699	511	485	953	1,755	1,882	2,553	3,612

No Action Alternative (ELT) minus Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	795	966	525	-317	-115	136	87	5	-116	8	264	377
20%	502	508	259	25	-6	94	68	-166	-160	31	571	357
30%	251	562	-360	-57	40	45	5	-58	66	21	374	417
40%	317	-345	-878	83	35	0	24	107	98	136	292	356
50%	326	-774	-164	36	51	9	10	36	87	48	122	185
60%	-1,341	-1,784	-100	72	4	4	-3	9	125	-31	86	-212
70%	-1,147	-943	-186	6	0	1	0	9	80	71	66	-1,157
80%	-1,163	-410	29	-2	-1	-1	-2	3	70	70	55	-1,155
90%	-72	-164	-1	-2	-1	0	0	0	62	45	-80	-480
Long Term												
Full Simulation Period[a]	-67	-154	10	-6	-2	29	20	4	45	75	194	-82
Water Year Types[b]												
Wet (31%)	195	180	4	-3	-1	0	-1	6	76	6	38	-687
Above Normal (25%)	429	600	160	0	-2	-2	-1	1	88	154	98	-960
Below Normal (6%)	-943	-1,869	-1,265	-167	15	3	2	13	-1	218	507	329
Dry (13%)	-726	-1,067	-341	39	-27	17	7	35	75	7	150	239
Critical (25%)	226	350	491	-13	13	80	58	-23	-14	125	331	414

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

Table C-72-2. Sacramento River at Emmaton, Monthly EC

Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,462	3,217	2,195	1,281	947	429	399	1,058	1,921	1,906	2,367	3,248
20%	2,966	2,928	1,950	872	616	295	314	787	1,328	1,275	1,961	3,130
30%	2,828	2,711	1,919	794	321	263	281	516	787	1,205	1,521	2,583
40%	2,685	2,585	1,806	576	285	230	228	327	568	938	1,172	2,358
50%	2,477	2,560	1,023	472	236	206	208	268	545	890	1,057	2,179
60%	2,022	2,463	830	281	199	192	202	231	388	589	1,003	1,986
70%	1,607	1,448	789	249	192	189	197	209	311	430	974	1,791
80%	1,444	741	204	198	186	185	195	208	247	359	902	1,595
90%	336	389	182	194	184	182	186	188	205	357	873	836
Long Term												
Full Simulation Period[a]	2,182	2,096	1,250	613	405	271	275	477	816	960	1,347	2,134
Water Year Types[b]												
Wet (31%)	1,414	1,125	337	245	184	183	190	200	265	351	758	1,026
Above Normal (25%)	3,219	2,485	1,408	222	194	188	195	202	234	358	986	1,594
Below Normal (6%)	1,624	2,548	2,161	787	242	193	206	209	319	589	957	2,358
Dry (13%)	2,097	2,443	1,385	643	422	219	230	335	592	966	1,122	2,123
Critical (25%)	2,560	2,349	1,626	1,004	685	431	426	976	1,768	1,757	2,222	3,199

Alternative 2D (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,124	3,229	2,257	906	630	473	426	1,123	1,826	2,507	2,688	3,399
20%	2,391	2,238	2,161	600	469	334	358	582	1,004	1,828	2,433	3,280
30%	2,141	1,976	1,282	559	348	292	312	385	740	1,364	1,885	3,104
40%	1,957	1,854	903	481	266	242	258	364	513	1,071	1,782	2,881
50%	1,818	1,252	719	380	236	221	233	303	463	867	1,551	2,793
60%	557	610	552	297	218	212	213	226	423	430	1,225	2,487
70%	384	504	515	230	198	200	209	222	298	404	1,149	721
80%	289	309	200	200	191	188	199	216	261	385	1,021	438
90%	282	239	183	200	187	184	190	191	235	371	837	380
Long Term												
Full Simulation Period[a]	1,544	1,462	1,100	461	337	283	290	465	771	1,112	1,621	2,113
Water Year Types[b]												
Wet (31%)	1,069	784	274	223	187	187	195	210	289	359	931	356
Above Normal (25%)	2,818	2,710	1,544	248	205	195	205	210	257	372	1,068	721
Below Normal (6%)	557	610	903	562	266	212	217	225	288	964	1,782	2,974
Dry (13%)	1,006	1,200	902	495	386	235	253	324	507	887	1,432	2,855
Critical (25%)	2,044	1,886	1,783	690	485	448	446	931	1,671	2,220	2,513	3,309

Alternative 2D (ELT) minus Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-338	12	63	-375	-317	44	27	64	-94	600	321	151
20%	-574	-690	210	-272	-147	39	45	-205	-324	553	472	151
30%	-687	-734	-636	-235	27	30	32	-131	-47	160	364	522
40%	-728	-731	-903	-95	-19	11	29	38	-55	134	610	523
50%	-659	-1,307	-305	-92	0	15	25	36	-82	-23	494	614
60%	-1,465	-1,853	-279	15	19	20	11	-5	34	-159	221	501
70%	-1,223	-944	-274	-19	6	11	12	12	-13	-25	175	-1,070
80%	-1,155	-432	-4	2	6	4	5	8	14	27	118	-1,157
90%	-54	-150	2	6	3	3	4	3	31	14	-36	-456
Long Term												
Full Simulation Period[a]	-637	-634	-149	-151	-68	12	15	-12	-45	152	273	-21
Water Year Types[b]												
Wet (31%)	-346	-341	-63	-22	3	3	5	11	24	8	174	-670
Above Normal (25%)	-400	225	135	26	10	6	10	8	23	14	81	-873
Below Normal (6%)	-1,067	-1,938	-1,258	-225	24	19	10	16	-31	375	824	615
Dry (13%)	-1,092	-1,243	-483	-148	-36	17	23	-11	-85	-79	310	732
Critical (25%)	-516	-463	156	-314	-200	17	19	-45	-97	462	291	110

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-72-3. Sacramento River at Emmaton, Monthly EC

Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,462	3,217	2,195	1,281	947	429	399	1,058	1,921	1,906	2,367	3,248
20%	2,966	2,928	1,950	872	616	295	314	787	1,328	1,275	1,961	3,130
30%	2,828	2,711	1,919	794	321	263	281	516	787	1,205	1,521	2,583
40%	2,685	2,585	1,806	576	285	230	228	327	568	938	1,172	2,358
50%	2,477	2,560	1,023	472	236	206	208	268	545	890	1,057	2,179
60%	2,022	2,463	830	281	199	192	202	231	388	589	1,003	1,986
70%	1,607	1,448	789	249	192	189	197	209	311	430	974	1,791
80%	1,444	741	204	198	186	185	195	208	247	359	902	1,595
90%	336	389	182	194	184	182	186	188	205	357	873	836
Long Term												
Full Simulation Period[a]	2,182	2,096	1,250	613	405	271	275	477	816	960	1,347	2,134
Water Year Types[b]												
Wet (31%)	1,414	1,125	337	245	184	183	190	200	265	351	758	1,026
Above Normal (25%)	3,219	2,485	1,408	222	194	188	195	202	234	358	986	1,594
Below Normal (6%)	1,624	2,548	2,161	787	242	193	206	209	319	589	957	2,358
Dry (13%)	2,097	2,443	1,385	643	422	219	230	335	592	966	1,122	2,123
Critical (25%)	2,560	2,349	1,626	1,004	685	431	426	976	1,768	1,757	2,222	3,199

Alternative 4A (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,567	3,651	2,471	1,024	759	539	468	1,057	1,825	2,717	2,883	3,804
20%	2,471	2,328	2,240	618	522	355	395	652	1,132	2,218	2,646	3,562
30%	2,296	2,138	1,557	570	342	305	315	442	827	1,811	2,145	3,344
40%	2,215	1,975	1,039	523	260	251	269	408	664	1,414	1,987	3,257
50%	1,999	1,377	785	395	243	227	232	325	575	1,141	1,731	3,189
60%	613	700	586	266	209	210	206	244	387	940	1,483	3,041
70%	414	550	567	238	198	198	204	221	298	524	1,324	696
80%	289	333	206	201	189	185	197	214	268	503	1,205	463
90%	284	246	183	195	185	184	188	189	243	474	1,175	379
Long Term												
Full Simulation Period[a]	1,675	1,592	1,217	487	363	301	304	482	826	1,346	1,840	2,338
Water Year Types[b]												
Wet (31%)	1,171	870	273	222	185	186	192	207	269	438	1,079	362
Above Normal (25%)	2,956	2,778	1,640	231	200	193	200	206	266	480	1,212	696
Below Normal (6%)	613	700	1,039	618	260	210	214	225	311	1,037	1,987	3,257
Dry (13%)	1,121	1,363	986	544	422	244	261	372	626	1,315	1,756	3,302
Critical (25%)	2,222	2,057	2,024	730	545	501	486	953	1,759	2,505	2,738	3,621

Alternative 4A (ELT) minus Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	105	434	276	-257	-188	110	69	-1	-95	811	516	556
20%	-495	-600	290	-254	-93	59	81	-135	-195	942	685	433
30%	-533	-573	-361	-224	21	42	34	-73	41	606	624	761
40%	-470	-610	-767	-54	-25	21	41	81	96	476	815	899
50%	-478	-1,182	-238	-78	7	22	24	57	30	251	674	1,010
60%	-1,408	-1,763	-244	-16	10	18	4	14	-2	350	479	1,055
70%	-1,193	-899	-222	-11	6	9	7	12	-13	94	350	-1,095
80%	-1,155	-408	2	3	3	1	2	6	20	144	303	-1,132
90%	-52	-142	1	1	1	2	2	1	39	117	302	-458
Long Term												
Full Simulation Period[a]	-506	-504	-33	-126	-41	30	28	5	10	386	493	205
Water Year Types[b]												
Wet (31%)	-244	-255	-64	-23	2	2	2	8	5	87	322	-664
Above Normal (25%)	-262	293	232	10	6	5	6	4	31	122	226	-898
Below Normal (6%)	-1,010	-1,848	-1,122	-169	18	16	8	16	-8	448	1,030	899
Dry (13%)	-976	-1,080	-399	-99	1	25	32	36	34	349	634	1,178
Critical (25%)	-337	-292	398	-274	-140	70	60	-24	-9	748	517	422

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-72-4. Sacramento River at Emmaton, Monthly EC

Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,462	3,217	2,195	1,281	947	429	399	1,058	1,921	1,906	2,367	3,248
20%	2,966	2,928	1,950	872	616	295	314	787	1,328	1,275	1,961	3,130
30%	2,828	2,711	1,919	794	321	263	281	516	787	1,205	1,521	2,583
40%	2,685	2,585	1,806	576	285	230	228	327	568	938	1,172	2,358
50%	2,477	2,560	1,023	472	236	206	208	268	545	890	1,057	2,179
60%	2,022	2,463	830	281	199	192	202	231	388	589	1,003	1,986
70%	1,607	1,448	789	249	192	189	197	209	311	430	974	1,791
80%	1,444	741	204	198	186	185	195	208	247	359	902	1,595
90%	336	389	182	194	184	182	186	188	205	357	873	836
Long Term												
Full Simulation Period[a]	2,182	2,096	1,250	613	405	271	275	477	816	960	1,347	2,134
Water Year Types[b]												
Wet (31%)	1,414	1,125	337	245	184	183	190	200	265	351	758	1,026
Above Normal (25%)	3,219	2,485	1,408	222	194	188	195	202	234	358	986	1,594
Below Normal (6%)	1,624	2,548	2,161	787	242	193	206	209	319	589	957	2,358
Dry (13%)	2,097	2,443	1,385	643	422	219	230	335	592	966	1,122	2,123
Critical (25%)	2,560	2,349	1,626	1,004	685	431	426	976	1,768	1,757	2,222	3,199

Alternative 5A (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,059	4,066	2,592	967	806	528	444	1,018	1,699	2,674	2,746	3,421
20%	3,391	3,285	2,198	726	471	386	355	579	1,037	1,797	2,422	3,194
30%	3,255	3,100	1,484	653	347	304	306	405	749	1,073	1,815	3,138
40%	3,092	2,864	914	588	324	229	250	384	589	988	1,672	2,812
50%	2,953	2,377	834	493	289	222	219	307	555	852	1,312	2,558
60%	672	650	655	360	209	200	204	231	441	538	1,200	2,296
70%	442	531	547	258	194	191	201	222	401	475	974	644
80%	272	330	246	198	187	184	196	218	322	438	890	418
90%	251	224	183	193	183	182	187	190	270	405	818	349
Long Term												
Full Simulation Period[a]	2,118	2,006	1,201	579	392	293	288	456	796	1,105	1,554	2,066
Water Year Types[b]												
Wet (31%)	1,646	1,426	345	253	184	184	191	211	326	366	801	331
Above Normal (25%)	3,861	3,455	1,608	226	194	188	197	209	348	486	1,106	644
Below Normal (6%)	672	644	831	588	257	200	211	226	286	722	1,672	3,194
Dry (13%)	1,277	1,373	999	581	331	240	249	338	580	876	1,275	2,648
Critical (25%)	2,759	2,670	1,959	977	715	485	449	893	1,627	2,205	2,535	3,333

Alternative 5A (ELT) minus Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	597	849	397	-314	-141	99	45	-41	-221	767	380	174
20%	425	358	248	-146	-145	91	42	-207	-291	522	461	64
30%	427	389	-434	-141	26	42	25	-111	-38	-132	294	556
40%	407	278	-892	12	38	-1	22	58	21	50	499	454
50%	476	-183	-190	20	53	16	11	40	10	-37	255	379
60%	-1,349	-1,813	-175	79	9	8	2	0	53	-51	196	310
70%	-1,166	-918	-242	9	2	2	4	13	90	46	0	-1,148
80%	-1,172	-411	42	0	1	-1	1	10	75	80	-13	-1,177
90%	-85	-165	1	-1	-1	1	1	1	65	48	-55	-487
Long Term												
Full Simulation Period[a]	-64	-90	-49	-33	-13	23	13	-21	-20	145	206	-67
Water Year Types[b]												
Wet (31%)	232	301	8	9	0	0	1	11	61	15	43	-695
Above Normal (25%)	642	971	199	4	-1	-1	2	7	114	128	120	-950
Below Normal (6%)	-951	-1,905	-1,330	-199	14	7	5	16	-33	133	714	836
Dry (13%)	-821	-1,070	-387	-62	-91	21	19	3	-12	-90	153	525
Critical (25%)	200	320	333	-27	30	54	23	-83	-141	447	313	134

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-72-5. Sacramento River at Emmaton, Monthly EC

No Action Alternative (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,257	4,183	2,720	964	832	565	486	1,063	1,805	1,914	2,631	3,625
20%	3,468	3,436	2,209	897	610	390	382	621	1,168	1,306	2,532	3,487
30%	3,079	3,273	1,558	737	361	308	286	457	853	1,226	1,895	3,000
40%	3,003	2,240	929	660	321	230	252	434	666	1,074	1,465	2,714
50%	2,803	1,785	860	508	287	214	219	304	632	938	1,179	2,364
60%	681	679	731	353	203	196	199	239	513	559	1,089	1,774
70%	460	506	603	255	192	190	197	218	391	501	1,041	634
80%	281	331	233	196	184	183	193	211	318	429	958	440
90%	264	225	181	192	183	181	186	188	267	402	792	356
Long Term												
Full Simulation Period[a]	2,114	1,942	1,260	607	403	300	295	481	860	1,035	1,542	2,051
Water Year Types[b]												
Wet (31%)	1,610	1,305	341	241	183	183	189	205	341	357	795	339
Above Normal (25%)	3,648	3,085	1,569	221	192	187	194	203	322	512	1,084	634
Below Normal (6%)	681	679	896	620	258	196	209	222	318	808	1,465	2,687
Dry (13%)	1,371	1,376	1,044	681	395	236	237	370	667	973	1,272	2,362
Critical (25%)	2,786	2,699	2,117	991	699	511	485	953	1,755	1,882	2,553	3,612

Alternative 2D (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,124	3,229	2,257	906	630	473	426	1,123	1,826	2,507	2,688	3,399
20%	2,391	2,238	2,161	600	469	334	358	582	1,004	1,828	2,433	3,280
30%	2,141	1,976	1,282	559	348	292	312	385	740	1,364	1,885	3,104
40%	1,957	1,854	903	481	266	242	258	364	513	1,071	1,782	2,881
50%	1,818	1,252	719	380	236	221	233	303	463	867	1,551	2,793
60%	557	610	552	297	218	212	213	226	423	430	1,225	2,487
70%	384	504	515	230	198	200	209	222	298	404	1,149	721
80%	289	309	200	200	191	188	199	216	261	385	1,021	438
90%	282	239	183	200	187	184	190	191	235	371	837	380
Long Term												
Full Simulation Period[a]	1,544	1,462	1,100	461	337	283	290	465	771	1,112	1,621	2,113
Water Year Types[b]												
Wet (31%)	1,069	784	274	223	187	187	195	210	289	359	931	356
Above Normal (25%)	2,818	2,710	1,544	248	205	195	205	210	257	372	1,068	721
Below Normal (6%)	557	610	903	562	266	212	217	225	288	964	1,782	2,974
Dry (13%)	1,006	1,200	902	495	386	235	253	324	507	887	1,432	2,855
Critical (25%)	2,044	1,886	1,783	690	485	448	446	931	1,671	2,220	2,513	3,309

Alternative 2D (ELT) minus No Action Alternative (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,133	-954	-462	-57	-201	-92	-60	**60**	**21**	**593**	**57**	-226
20%	-1,077	-1,198	-49	-298	-141	-55	-24	-39	-164	**522**	-99	-206
30%	-938	-1,297	-276	-178	-13	-15	**27**	-72	-113	**139**	-10	**105**
40%	-1,046	-386	-25	-178	-54	**12**	**5**	-69	-153	-2	**317**	**167**
50%	-985	-533	-141	-128	-51	**7**	**14**	-1	-169	-71	**372**	**429**
60%	-124	-68	-179	-57	**15**	**16**	**14**	-14	-90	-128	**136**	**713**
70%	-76	-1	-88	-25	**5**	**10**	**12**	**4**	-93	-96	**109**	**87**
80%	**8**	-22	-33	**5**	**7**	**5**	**6**	**5**	-57	-43	**63**	-2
90%	**18**	**14**	**2**	**7**	**5**	**3**	**4**	**4**	-31	-30	**44**	**24**
Long Term												
Full Simulation Period[a]	-570	-479	-160	-146	-66	-17	-5	-16	-89	**77**	**79**	**61**
Water Year Types[b]												
Wet (31%)	-541	-521	-67	-18	**5**	**4**	**6**	**5**	-52	**2**	**136**	**17**
Above Normal (25%)	-830	-375	-25	**26**	**12**	**8**	**11**	**7**	-65	-141	-16	**87**
Below Normal (6%)	-124	-68	**8**	-58	**9**	**16**	**8**	**3**	-30	**156**	**317**	**286**
Dry (13%)	-366	-175	-143	-186	-9	-1	**16**	-46	-160	-86	**160**	**493**
Critical (25%)	-742	-813	-335	-301	-214	-63	-39	-22	-84	**338**	-40	-303

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-72-6. Sacramento River at Emmaton, Monthly EC

No Action Alternative (ELT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,257	4,183	2,720	964	832	565	486	1,063	1,805	1,914	2,631	3,625
20%	3,468	3,436	2,209	897	610	390	382	621	1,168	1,306	2,532	3,487
30%	3,079	3,273	1,558	737	361	308	286	457	853	1,226	1,895	3,000
40%	3,003	2,240	929	660	321	230	252	434	666	1,074	1,465	2,714
50%	2,803	1,785	860	508	287	214	219	304	632	938	1,179	2,364
60%	681	679	731	353	203	196	199	239	513	559	1,089	1,774
70%	460	506	603	255	192	190	197	218	391	501	1,041	634
80%	281	331	233	196	184	183	193	211	318	429	958	440
90%	264	225	181	192	183	181	186	188	267	402	792	356
Long Term												
Full Simulation Period[a]	2,114	1,942	1,260	607	403	300	295	481	860	1,035	1,542	2,051
Water Year Types[b]												
Wet (31%)	1,610	1,305	341	241	183	183	189	205	341	357	795	339
Above Normal (25%)	3,648	3,085	1,569	221	192	187	194	203	322	512	1,084	634
Below Normal (6%)	681	679	896	620	258	196	209	222	318	808	1,465	2,687
Dry (13%)	1,371	1,376	1,044	681	395	236	237	370	667	973	1,272	2,362
Critical (25%)	2,786	2,699	2,117	991	699	511	485	953	1,755	1,882	2,553	3,612

Alternative 4A (ELT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,567	3,651	2,471	1,024	759	539	468	1,057	1,825	2,717	2,883	3,804
20%	2,471	2,328	2,240	618	522	355	395	652	1,132	2,218	2,646	3,562
30%	2,296	2,138	1,557	570	342	305	315	442	827	1,811	2,145	3,344
40%	2,215	1,975	1,039	523	260	251	269	408	664	1,414	1,987	3,257
50%	1,999	1,377	785	395	243	227	232	325	575	1,141	1,731	3,189
60%	613	700	586	266	209	210	206	244	387	940	1,483	3,041
70%	414	550	567	238	198	198	204	221	298	524	1,324	696
80%	289	333	206	201	189	185	197	214	268	503	1,205	463
90%	284	246	183	195	185	184	188	189	243	474	1,175	379
Long Term												
Full Simulation Period[a]	1,675	1,592	1,217	487	363	301	304	482	826	1,346	1,840	2,338
Water Year Types[b]												
Wet (31%)	1,171	870	273	222	185	186	192	207	269	438	1,079	362
Above Normal (25%)	2,956	2,778	1,640	231	200	193	200	206	266	480	1,212	696
Below Normal (6%)	613	700	1,039	618	260	210	214	225	311	1,037	1,987	3,257
Dry (13%)	1,121	1,363	986	544	422	244	261	372	626	1,315	1,756	3,302
Critical (25%)	2,222	2,057	2,024	730	545	501	486	953	1,759	2,505	2,738	3,621

Alternative 4A (ELT) minus No Action Alternative (ELT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-690	-532	-249	**60**	-73	-26	-18	-6	**21**	**803**	**252**	**179**
20%	-997	-1,108	**31**	-280	-87	-35	**13**	**31**	-36	**912**	**114**	**76**
30%	-784	-1,135	-1	-167	-19	-3	**29**	-15	-25	**585**	**250**	**344**
40%	-787	-265	**111**	-137	-60	**21**	**17**	-26	-3	**341**	**523**	**543**
50%	-804	-408	-74	-113	-44	**13**	**13**	**21**	-57	**203**	**553**	**825**
60%	-67	**21**	-144	-88	**6**	**13**	**6**	**5**	-126	**381**	**393**	**1,267**
70%	-46	**44**	-36	-17	**6**	**8**	**7**	**3**	-93	**23**	**283**	**62**
80%	**8**	**2**	-26	**6**	**4**	**2**	**4**	**3**	-50	**74**	**247**	**23**
90%	**21**	**21**	**1**	**3**	**2**	**3**	**2**	**1**	-23	**72**	**383**	**22**
Long Term												
Full Simulation Period[a]	-439	-350	-43	-120	-39	**1**	**8**	**1**	-34	**311**	**299**	**287**
Water Year Types[b]												
Wet (31%)	-439	-435	-68	-20	**3**	**3**	**3**	**2**	-72	**81**	**284**	**23**
Above Normal (25%)	-692	-307	**71**	**10**	**8**	**7**	**7**	**3**	-57	-32	**128**	**62**
Below Normal (6%)	-67	**21**	**144**	-2	**2**	**13**	**5**	**3**	-7	**229**	**523**	**570**
Dry (13%)	-250	-13	-59	-138	**27**	**8**	**24**	**1**	-42	**342**	**484**	**940**
Critical (25%)	-563	-642	-93	-261	-154	-10	**2**	-1	**4**	**623**	**186**	**9**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-72-7. Sacramento River at Emmaton, Monthly EC

No Action Alternative (ELT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,257	4,183	2,720	964	832	565	486	1,063	1,805	1,914	2,631	3,625
20%	3,468	3,436	2,209	897	610	390	382	621	1,168	1,306	2,532	3,487
30%	3,079	3,273	1,558	737	361	308	286	457	853	1,226	1,895	3,000
40%	3,003	2,240	929	660	321	230	252	434	666	1,074	1,465	2,714
50%	2,803	1,785	860	508	287	214	219	304	632	938	1,179	2,364
60%	681	679	731	353	203	196	199	239	513	559	1,089	1,774
70%	460	506	603	255	192	190	197	218	391	501	1,041	634
80%	281	331	233	196	184	183	193	211	318	429	958	440
90%	264	225	181	192	183	181	186	188	267	402	792	356
Long Term												
Full Simulation Period[a]	2,114	1,942	1,260	607	403	300	295	481	860	1,035	1,542	2,051
Water Year Types[b]												
Wet (31%)	1,610	1,305	341	241	183	183	189	205	341	357	795	339
Above Normal (25%)	3,648	3,085	1,569	221	192	187	194	203	322	512	1,084	634
Below Normal (6%)	681	679	896	620	258	196	209	222	318	808	1,465	2,687
Dry (13%)	1,371	1,376	1,044	681	395	236	237	370	667	973	1,272	2,362
Critical (25%)	2,786	2,699	2,117	991	699	511	485	953	1,755	1,882	2,553	3,612

Alternative 5A (ELT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,059	4,066	2,592	967	806	528	444	1,018	1,699	2,674	2,746	3,421
20%	3,391	3,285	2,198	726	471	386	355	579	1,037	1,797	2,422	3,194
30%	3,255	3,100	1,484	653	347	304	306	405	749	1,073	1,815	3,138
40%	3,092	2,864	914	588	324	229	250	384	589	988	1,672	2,812
50%	2,953	2,377	834	493	289	222	219	307	555	852	1,312	2,558
60%	672	650	655	360	209	200	204	231	441	538	1,200	2,296
70%	442	531	547	258	194	191	201	222	401	475	974	644
80%	272	330	246	198	187	184	196	218	322	438	890	418
90%	251	224	183	193	183	182	187	190	270	405	818	349
Long Term												
Full Simulation Period[a]	2,118	2,006	1,201	579	392	293	288	456	796	1,105	1,554	2,066
Water Year Types[b]												
Wet (31%)	1,646	1,426	345	253	184	184	191	211	326	366	801	331
Above Normal (25%)	3,861	3,455	1,608	226	194	188	197	209	348	486	1,106	644
Below Normal (6%)	672	644	831	588	257	200	211	226	286	722	1,672	3,194
Dry (13%)	1,277	1,373	999	581	331	240	249	338	580	876	1,275	2,648
Critical (25%)	2,759	2,670	1,959	977	715	485	449	893	1,627	2,205	2,535	3,333

Alternative 5A (ELT) minus No Action Alternative (ELT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-198	-117	-128	**3**	-25	-37	-42	-45	-106	**760**	**116**	-204
20%	-77	-150	-11	-171	-139	-4	-27	-41	-131	**491**	-111	-293
30%	**176**	-173	-74	-84	-13	-3	**20**	-53	-104	-153	-79	**139**
40%	**90**	**623**	-14	-71	**3**	-1	-3	-49	-77	-86	**207**	**98**
50%	**150**	**591**	-26	-15	**1**	**7**	**1**	**3**	-77	-85	**133**	**194**
60%	-8	-29	-75	**7**	**5**	**4**	**5**	-8	-72	-21	**110**	**522**
70%	-19	**25**	-57	**3**	**1**	**2**	**4**	**4**	**10**	-25	-67	**10**
80%	-9	-1	**13**	**3**	**2**	**1**	**3**	**7**	**5**	**10**	-68	-22
90%	-13	-1	**1**	**1**	**0**	**1**	**1**	**2**	**3**	**4**	**26**	-8
Long Term												
Full Simulation Period[a]	**3**	**64**	-59	-28	-11	-7	-7	-25	-64	**70**	**12**	**15**
Water Year Types[b]												
Wet (31%)	**36**	**121**	**4**	**12**	**1**	**1**	**2**	**6**	-15	**9**	**5**	-9
Above Normal (25%)	**213**	**370**	**39**	**4**	**1**	**1**	**3**	**6**	**26**	-26	**22**	**10**
Below Normal (6%)	-8	-35	-65	-32	-1	**4**	**3**	**3**	-32	-86	**207**	**507**
Dry (13%)	-94	-3	-46	-100	-64	**4**	**12**	-32	-87	-97	**2**	**286**
Critical (25%)	-26	-30	-158	-14	**16**	-26	-35	-60	-128	**323**	-18	-280

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

C.73. San Joaquin River at Jersey Point Salinity

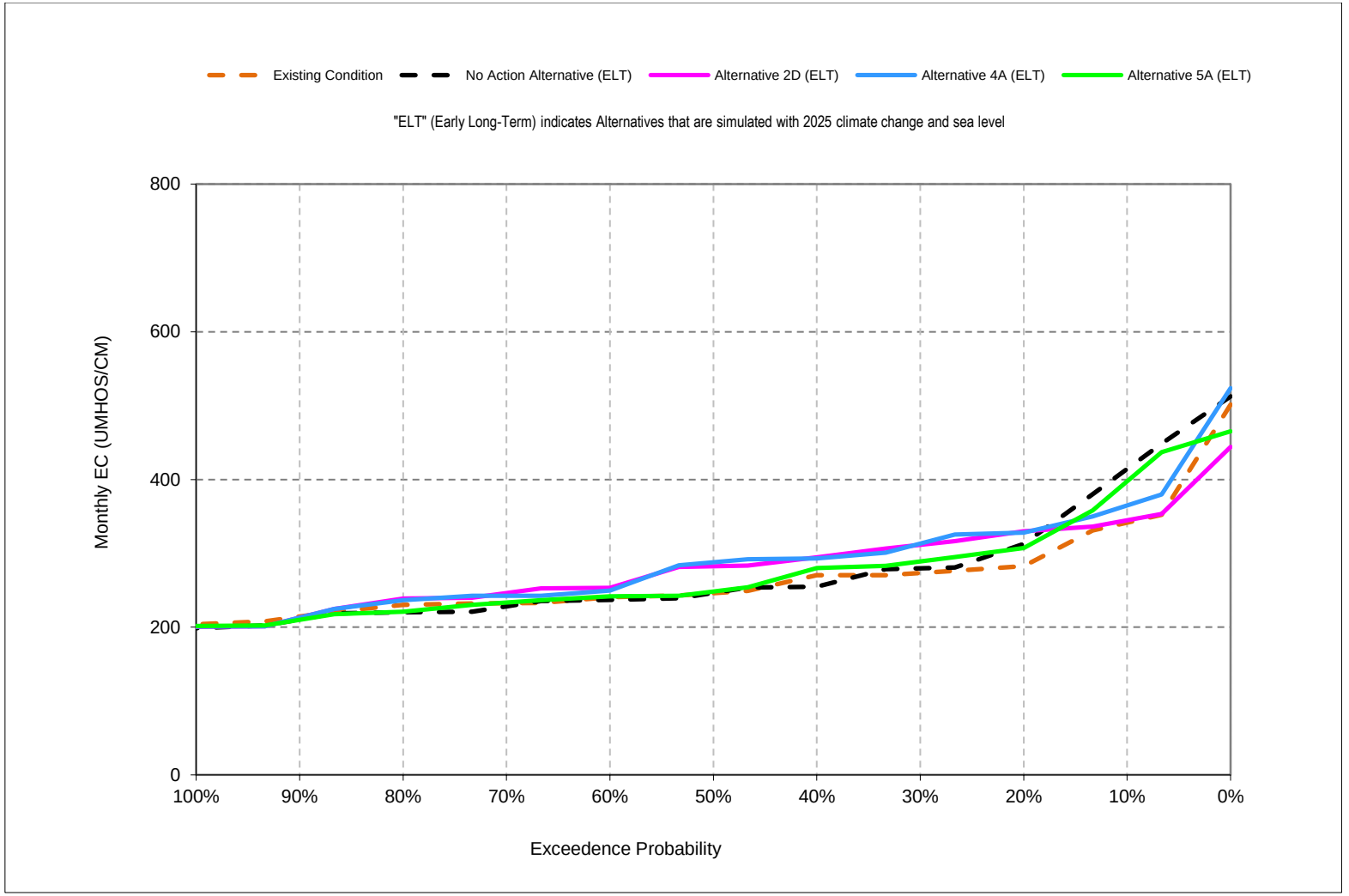


Figure C-73-4. San Joaquin River at Jersey Point, April EC

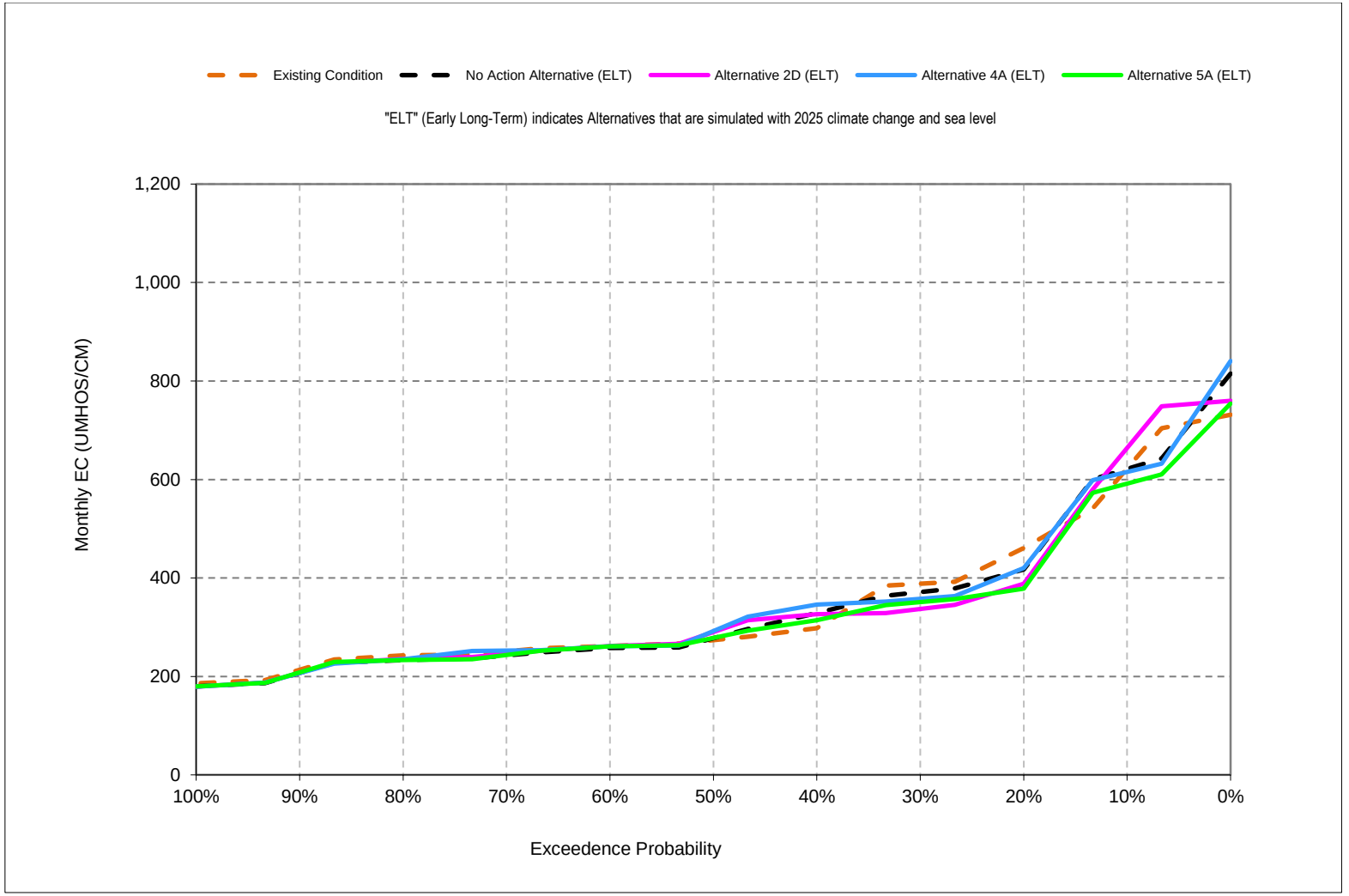


Figure C-73-5. San Joaquin River at Jersey Point, May EC

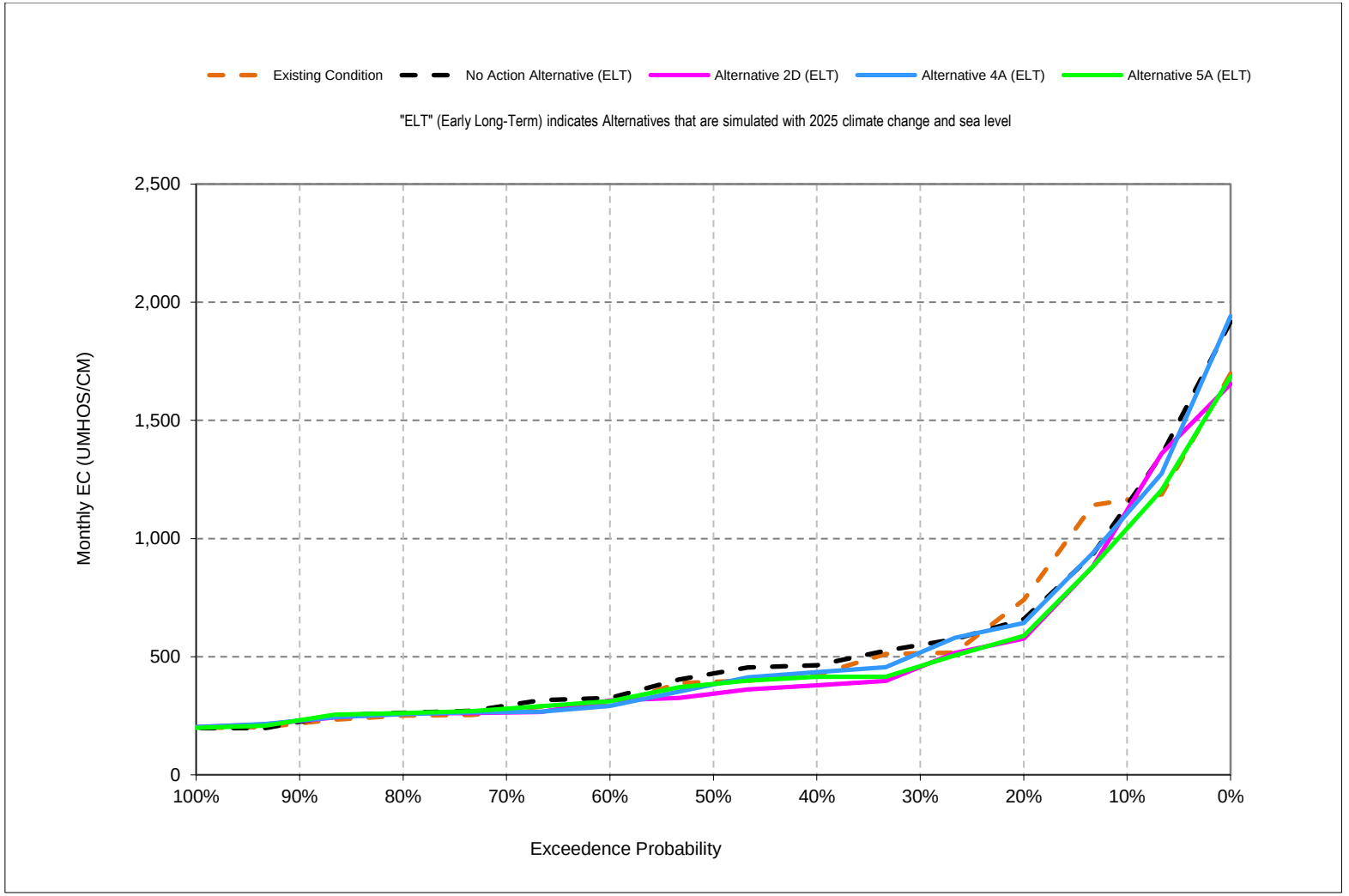


Figure C-73-6. San Joaquin River at Jersey Point, June EC

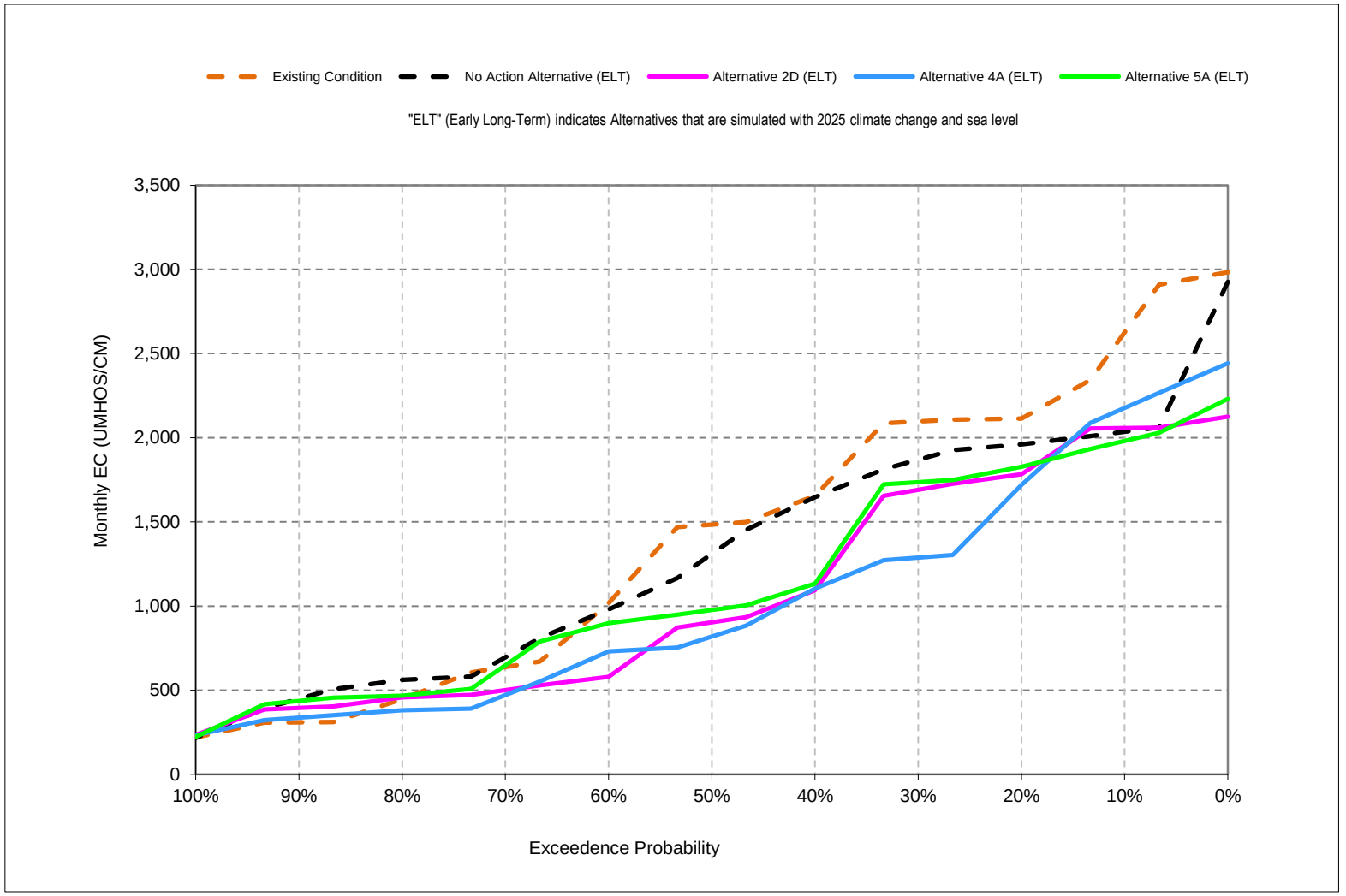


Figure C-73-7. San Joaquin River at Jersey Point, July EC

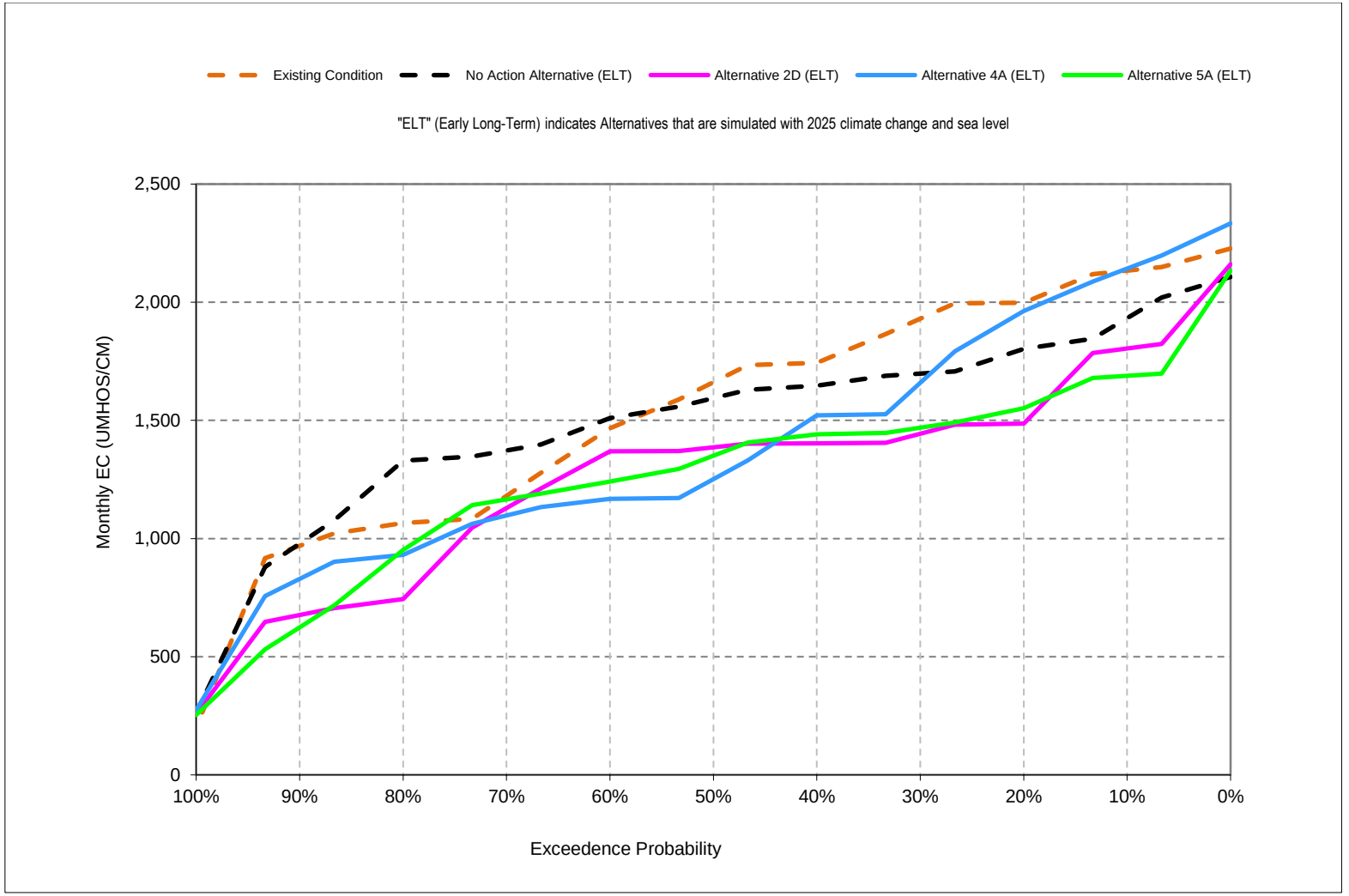


Figure C-73-8. San Joaquin River at Jersey Point, August EC

Table C-73-1. San Joaquin River at Jersey Point, Monthly EC

Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,677	3,141	2,602	1,341	862	409	342	623	1,164	2,626	2,134	2,557
20%	2,491	2,810	2,416	1,325	756	362	283	461	740	2,114	1,997	2,475
30%	2,380	2,656	2,329	1,247	469	287	274	388	515	2,097	1,930	2,418
40%	2,255	2,630	2,113	1,183	334	265	270	298	424	1,655	1,743	2,349
50%	2,136	2,529	1,985	867	298	262	246	274	394	1,484	1,661	2,322
60%	2,056	2,372	1,705	533	270	259	241	262	292	1,017	1,467	2,233
70%	2,009	2,037	1,406	381	263	241	233	251	271	638	1,181	2,136
80%	1,618	1,649	284	318	250	239	230	243	252	448	1,066	1,994
90%	554	622	237	264	235	224	215	213	218	309	969	1,158
Long Term												
Full Simulation Period[a]	1,951	2,204	1,669	861	452	299	272	355	545	1,422	1,528	2,066
Water Year Types[b]												
Wet (31%)	1,349	1,630	597	361	240	236	223	222	237	452	843	1,242
Above Normal (25%)	2,547	2,676	2,420	459	274	252	258	251	243	378	1,098	1,972
Below Normal (6%)	2,255	2,630	2,416	1,338	334	240	241	262	290	1,017	1,467	2,639
Dry (13%)	1,947	2,625	1,938	1,009	468	256	242	301	431	1,677	1,733	2,383
Critical (25%)	2,136	2,051	1,861	1,209	704	414	346	564	1,057	2,491	2,098	2,395

No Action Alternative (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,091	3,348	3,016	1,366	821	469	414	621	1,143	2,035	1,933	2,930
20%	2,509	3,065	2,341	1,264	525	456	313	417	659	1,960	1,803	2,528
30%	2,477	2,912	2,166	1,184	441	297	280	371	550	1,870	1,698	2,481
40%	2,462	2,713	1,671	1,069	370	292	255	328	464	1,647	1,647	2,439
50%	2,302	2,572	1,461	837	329	260	246	278	429	1,311	1,594	2,299
60%	514	678	1,206	561	289	244	237	258	326	979	1,510	1,976
70%	341	541	774	425	268	238	228	243	294	696	1,372	1,021
80%	297	243	320	360	258	233	220	233	263	562	1,329	771
90%	249	228	242	257	231	224	211	207	225	449	979	613
Long Term												
Full Simulation Period[a]	1,632	1,857	1,523	826	443	315	281	355	569	1,313	1,488	1,859
Water Year Types[b]												
Wet (31%)	1,348	1,780	580	344	233	227	214	214	260	439	932	610
Above Normal (25%)	2,485	2,912	2,658	460	268	241	249	238	258	658	1,478	910
Below Normal (6%)	514	605	1,285	1,069	337	242	237	259	271	1,167	1,708	3,100
Dry (13%)	995	1,252	1,360	1,040	454	268	242	306	462	1,564	1,499	2,363
Critical (25%)	2,252	2,231	2,001	1,139	693	467	387	571	1,087	2,104	1,885	2,587

No Action Alternative (ELT) minus Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	414	207	413	25	-40	60	73	-1	-20	-591	-201	373
20%	18	255	-75	-62	-231	94	30	-44	-81	-153	-194	53
30%	97	257	-163	-62	-28	10	6	-17	36	-227	-232	62
40%	207	83	-442	-114	36	27	-16	31	40	-8	-96	91
50%	166	43	-524	-31	31	-2	0	4	36	-173	-67	-23
60%	-1,541	-1,694	-499	29	19	-15	-4	-4	34	-37	43	-257
70%	-1,668	-1,496	-632	44	4	-4	-4	-8	23	58	192	-1,115
80%	-1,321	-1,406	36	41	8	-5	-10	-10	11	115	263	-1,223
90%	-305	-394	5	-6	-4	1	-4	-6	7	140	9	-545
Long Term												
Full Simulation Period[a]	-318	-347	-146	-35	-9	16	9	0	24	-108	-40	-207
Water Year Types[b]												
Wet (31%)	-1	151	-17	-17	-6	-9	-9	-8	23	-13	89	-632
Above Normal (25%)	-62	236	238	2	-7	-11	-8	-12	15	281	380	-1,062
Below Normal (6%)	-1,741	-2,025	-1,131	-269	3	2	-4	-3	-18	151	241	461
Dry (13%)	-952	-1,373	-578	31	-14	12	0	5	31	-114	-234	-21
Critical (25%)	117	180	140	-70	-11	53	41	6	31	-387	-213	192

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

Table C-73-2. San Joaquin River at Jersey Point, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,677	3,141	2,602	1,341	862	409	342	623	1,164	2,626	2,134	2,557
20%	2,491	2,810	2,416	1,325	756	362	283	461	740	2,114	1,997	2,475
30%	2,380	2,656	2,329	1,247	469	287	274	388	515	2,097	1,930	2,418
40%	2,255	2,630	2,113	1,183	334	265	270	298	424	1,655	1,743	2,349
50%	2,136	2,529	1,985	867	298	262	246	274	394	1,484	1,661	2,322
60%	2,056	2,372	1,705	533	270	259	241	262	292	1,017	1,467	2,233
70%	2,009	2,037	1,406	381	263	241	233	251	271	638	1,181	2,136
80%	1,618	1,649	284	318	250	239	230	243	252	448	1,066	1,994
90%	554	622	237	264	235	224	215	213	218	309	969	1,158
Long Term												
Full Simulation Period[a]	1,951	2,204	1,669	861	452	299	272	355	545	1,422	1,528	2,066
Water Year Types[b]												
Wet (31%)	1,349	1,630	597	361	240	236	223	222	237	452	843	1,242
Above Normal (25%)	2,547	2,676	2,420	459	274	252	258	251	243	378	1,098	1,972
Below Normal (6%)	2,255	2,630	2,416	1,338	334	240	241	262	290	1,017	1,467	2,639
Dry (13%)	1,947	2,625	1,938	1,009	468	256	242	301	431	1,677	1,733	2,383
Critical (25%)	2,136	2,051	1,861	1,209	704	414	346	564	1,057	2,491	2,098	2,395

Alternative 2D (ELT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,918	2,319	2,553	1,109	510	409	345	664	1,121	2,057	1,804	2,508
20%	1,488	1,584	1,991	923	428	375	330	388	577	1,784	1,486	2,305
30%	1,279	1,384	1,719	736	407	325	312	337	457	1,691	1,443	2,164
40%	1,113	1,285	1,165	561	351	297	295	326	379	1,093	1,403	1,990
50%	1,064	992	957	554	304	270	283	290	344	903	1,386	1,979
60%	314	383	707	381	299	260	253	262	316	580	1,369	1,967
70%	264	307	564	348	288	256	246	246	265	501	1,129	548
80%	248	270	232	310	262	241	239	235	260	457	744	400
90%	240	239	220	264	258	233	213	207	229	396	677	334
Long Term												
Full Simulation Period[a]	946	1,076	1,217	601	364	301	285	353	514	1,086	1,269	1,538
Water Year Types[b]												
Wet (31%)	663	664	339	305	274	245	223	217	251	388	755	326
Above Normal (25%)	1,634	1,861	2,430	497	345	304	281	240	255	492	1,054	536
Below Normal (6%)	314	307	1,165	846	351	279	253	262	260	528	1,046	2,035
Dry (13%)	652	989	955	620	382	265	275	302	364	1,297	1,366	2,110
Critical (25%)	1,258	1,315	1,655	815	431	377	350	564	998	1,823	1,732	2,350

Alternative 2D (ELT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-759	-822	-49	-232	-351	0	3	42	-43	-569	-330	-49
20%	-1,003	-1,226	-425	-402	-328	13	47	-73	-163	-330	-511	-170
30%	-1,100	-1,271	-609	-511	-62	38	38	-51	-58	-406	-487	-254
40%	-1,142	-1,345	-948	-622	17	32	24	29	-45	-562	-340	-358
50%	-1,072	-1,537	-1,027	-313	6	8	36	16	-50	-581	-275	-343
60%	-1,741	-1,989	-998	-152	29	1	13	-1	24	-437	-98	-266
70%	-1,745	-1,730	-842	-33	24	14	14	-5	-7	-138	-52	-1,588
80%	-1,369	-1,379	-51	-8	11	2	8	-8	8	10	-323	-1,594
90%	-315	-384	-17	1	23	9	-1	-6	11	86	-293	-824
Long Term												
Full Simulation Period[a]	-1,005	-1,127	-451	-260	-88	2	13	-2	-32	-336	-260	-528
Water Year Types[b]												
Wet (31%)	-686	-965	-258	-56	35	9	0	-5	15	-64	-88	-916
Above Normal (25%)	-913	-814	11	39	71	53	23	-11	12	115	-44	-1,436
Below Normal (6%)	-1,941	-2,323	-1,251	-492	17	39	13	-1	-30	-488	-421	-604
Dry (13%)	-1,295	-1,637	-983	-389	-86	9	33	1	-67	-380	-366	-273
Critical (25%)	-877	-736	-206	-394	-273	-37	4	0	-59	-668	-366	-44

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-73-3. San Joaquin River at Jersey Point, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,677	3,141	2,602	1,341	862	409	342	623	1,164	2,626	2,134	2,557
20%	2,491	2,810	2,416	1,325	756	362	283	461	740	2,114	1,997	2,475
30%	2,380	2,656	2,329	1,247	469	287	274	388	515	2,097	1,930	2,418
40%	2,255	2,630	2,113	1,183	334	265	270	298	424	1,655	1,743	2,349
50%	2,136	2,529	1,985	867	298	262	246	274	394	1,484	1,661	2,322
60%	2,056	2,372	1,705	533	270	259	241	262	292	1,017	1,467	2,233
70%	2,009	2,037	1,406	381	263	241	233	251	271	638	1,181	2,136
80%	1,618	1,649	284	318	250	239	230	243	252	448	1,066	1,994
90%	554	622	237	264	235	224	215	213	218	309	969	1,158
Long Term												
Full Simulation Period[a]	1,951	2,204	1,669	861	452	299	272	355	545	1,422	1,528	2,066
Water Year Types[b]												
Wet (31%)	1,349	1,630	597	361	240	236	223	222	237	452	843	1,242
Above Normal (25%)	2,547	2,676	2,420	459	274	252	258	251	243	378	1,098	1,972
Below Normal (6%)	2,255	2,630	2,416	1,338	334	240	241	262	290	1,017	1,467	2,639
Dry (13%)	1,947	2,625	1,938	1,009	468	256	242	301	431	1,677	1,733	2,383
Critical (25%)	2,136	2,051	1,861	1,209	704	414	346	564	1,057	2,491	2,098	2,395

Alternative 4A (ELT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,185	2,511	2,816	1,216	560	433	365	615	1,106	2,177	2,142	2,887
20%	1,473	1,621	2,278	1,100	456	369	328	420	643	1,720	1,963	2,715
30%	1,395	1,453	1,856	763	350	340	313	358	518	1,288	1,659	2,494
40%	1,241	1,321	1,290	599	337	297	293	346	435	1,103	1,522	2,325
50%	1,152	1,101	1,014	572	313	267	288	292	383	819	1,251	2,198
60%	296	408	717	368	279	261	250	261	292	730	1,168	2,124
70%	255	322	581	346	269	255	243	252	267	472	1,098	516
80%	228	262	228	295	263	243	237	235	257	381	932	424
90%	224	238	219	245	257	228	213	207	230	337	829	384
Long Term												
Full Simulation Period[a]	1,019	1,157	1,305	635	365	307	292	358	549	1,050	1,384	1,737
Water Year Types[b]												
Wet (31%)	704	723	339	287	256	241	220	216	242	380	815	350
Above Normal (25%)	1,718	1,894	2,495	486	308	293	276	239	256	357	917	516
Below Normal (6%)	296	324	1,290	914	350	270	250	261	266	730	1,171	2,193
Dry (13%)	709	1,110	1,033	665	402	271	278	318	414	1,011	1,378	2,364
Critical (25%)	1,384	1,414	1,822	892	449	402	376	571	1,076	1,958	2,074	2,743

Alternative 4A (ELT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-492	-630	**214**	-125	-302	**24**	**23**	-7	-57	-449	**8**	**331**
20%	-1,018	-1,189	-138	-226	-300	**7**	**46**	-41	-97	-393	-35	**240**
30%	-985	-1,203	-473	-483	-119	**53**	**40**	-31	**3**	-809	-272	**76**
40%	-1,015	-1,309	-823	-584	**3**	**32**	**23**	**48**	**11**	-552	-221	-24
50%	-983	-1,428	-971	-295	**15**	**5**	**42**	**19**	-11	-665	-410	-124
60%	-1,760	-1,965	-988	-165	**9**	**2**	**9**	-1	0	-286	-299	-109
70%	-1,754	-1,715	-825	-35	**6**	**13**	**10**	**1**	-5	-167	-83	-1,620
80%	-1,390	-1,387	-56	-23	**12**	**4**	**6**	-8	**5**	-66	-135	-1,569
90%	-330	-385	-18	-19	**22**	**5**	-2	-7	**12**	**28**	-140	-773
Long Term												
Full Simulation Period[a]	-932	-1,046	-364	-227	-87	**8**	**21**	**3**	**3**	-372	-144	-329
Water Year Types[b]												
Wet (31%)	-645	-907	-258	-74	**17**	**5**	-3	-6	**5**	-72	-28	-892
Above Normal (25%)	-829	-782	**75**	**27**	**34**	**41**	**19**	-12	**13**	-21	-181	-1,456
Below Normal (6%)	-1,959	-2,306	-1,126	-425	**16**	**30**	**9**	-1	-24	-286	-295	-447
Dry (13%)	-1,238	-1,515	-905	-343	-65	**15**	**36**	**17**	-17	-666	-355	-20
Critical (25%)	-752	-637	-40	-317	-255	-12	**30**	**7**	**19**	-533	-23	**348**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-73-4. San Joaquin River at Jersey Point, Monthly EC

Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,677	3,141	2,602	1,341	862	409	342	623	1,164	2,626	2,134	2,557
20%	2,491	2,810	2,416	1,325	756	362	283	461	740	2,114	1,997	2,475
30%	2,380	2,656	2,329	1,247	469	287	274	388	515	2,097	1,930	2,418
40%	2,255	2,630	2,113	1,183	334	265	270	298	424	1,655	1,743	2,349
50%	2,136	2,529	1,985	867	298	262	246	274	394	1,484	1,661	2,322
60%	2,056	2,372	1,705	533	270	259	241	262	292	1,017	1,467	2,233
70%	2,009	2,037	1,406	381	263	241	233	251	271	638	1,181	2,136
80%	1,618	1,649	284	318	250	239	230	243	252	448	1,066	1,994
90%	554	622	237	264	235	224	215	213	218	309	969	1,158
Long Term												
Full Simulation Period[a]	1,951	2,204	1,669	861	452	299	272	355	545	1,422	1,528	2,066
Water Year Types[b]												
Wet (31%)	1,349	1,630	597	361	240	236	223	222	237	452	843	1,242
Above Normal (25%)	2,547	2,676	2,420	459	274	252	258	251	243	378	1,098	1,972
Below Normal (6%)	2,255	2,630	2,416	1,338	334	240	241	262	290	1,017	1,467	2,639
Dry (13%)	1,947	2,625	1,938	1,009	468	256	242	301	431	1,677	1,733	2,383
Critical (25%)	2,136	2,051	1,861	1,209	704	414	346	564	1,057	2,491	2,098	2,395

Alternative 5A (ELT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,785	3,258	2,757	1,363	823	458	397	592	1,043	1,981	1,689	2,453
20%	2,615	3,023	2,189	1,229	541	446	307	379	588	1,827	1,551	2,271
30%	2,402	2,787	2,172	1,099	446	299	289	351	461	1,736	1,469	2,129
40%	2,299	2,506	1,581	1,004	378	287	280	314	415	1,133	1,441	1,989
50%	2,113	2,377	1,313	841	321	273	248	278	385	977	1,351	1,830
60%	345	665	1,065	595	302	250	242	261	312	899	1,241	1,736
70%	288	317	721	438	274	245	233	244	281	649	1,166	623
80%	239	262	354	359	259	238	221	233	262	468	952	417
90%	234	221	260	262	239	228	210	208	231	437	624	355
Long Term												
Full Simulation Period[a]	1,520	1,772	1,449	812	437	314	280	342	517	1,146	1,261	1,514
Water Year Types[b]												
Wet (31%)	1,246	1,710	530	363	239	232	218	216	253	401	807	357
Above Normal (25%)	2,543	3,110	2,769	477	274	250	258	241	262	628	1,062	571
Below Normal (6%)	345	316	1,225	1,035	339	250	242	261	262	949	1,141	2,164
Dry (13%)	923	1,141	1,261	922	425	274	249	296	400	1,453	1,356	1,953
Critical (25%)	2,044	2,083	1,851	1,172	690	449	369	535	973	1,744	1,651	2,335

Alternative 5A (ELT) minus Existing Condition

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	108	118	154	22	-38	50	56	-31	-120	-645	-445	-104
20%	124	213	-227	-96	-215	84	24	-82	-152	-287	-446	-204
30%	22	131	-157	-148	-23	12	15	-37	-54	-361	-461	-289
40%	43	-124	-532	-179	44	22	10	16	-9	-522	-302	-360
50%	-22	-152	-672	-26	23	11	2	5	-8	-507	-311	-491
60%	-1,711	-1,707	-640	62	32	-10	1	-1	20	-118	-225	-497
70%	-1,721	-1,720	-685	58	10	3	1	-7	9	10	-15	-1,513
80%	-1,379	-1,387	71	41	8	0	-9	-10	10	20	-115	-1,577
90%	-320	-401	23	-2	4	4	-5	-5	13	127	-345	-803
Long Term												
Full Simulation Period[a]	-430	-431	-220	-49	-15	15	8	-13	-29	-275	-268	-552
Water Year Types[b]												
Wet (31%)	-103	80	-67	2	-1	-4	-5	-6	16	-51	-36	-885
Above Normal (25%)	-4	434	349	18	-1	-2	0	-10	19	251	-36	-1,401
Below Normal (6%)	-1,911	-2,314	-1,191	-303	5	9	1	-1	-28	-67	-325	-475
Dry (13%)	-1,024	-1,484	-677	-86	-42	18	8	-5	-30	-225	-377	-431
Critical (25%)	-92	32	-10	-37	-14	35	23	-30	-83	-748	-447	-60

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-73-5. San Joaquin River at Jersey Point, Monthly EC

No Action Alternative (ELT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,091	3,348	3,016	1,366	821	469	414	621	1,143	2,035	1,933	2,930
20%	2,509	3,065	2,341	1,264	525	456	313	417	659	1,960	1,803	2,528
30%	2,477	2,912	2,166	1,184	441	297	280	371	550	1,870	1,698	2,481
40%	2,462	2,713	1,671	1,069	370	292	255	328	464	1,647	1,647	2,439
50%	2,302	2,572	1,461	837	329	260	246	278	429	1,311	1,594	2,299
60%	514	678	1,206	561	289	244	237	258	326	979	1,510	1,976
70%	341	541	774	425	268	238	228	243	294	696	1,372	1,021
80%	297	243	320	360	258	233	220	233	263	562	1,329	771
90%	249	228	242	257	231	224	211	207	225	449	979	613
Long Term												
Full Simulation Period[a]	1,632	1,857	1,523	826	443	315	281	355	569	1,313	1,488	1,859
Water Year Types[b]												
Wet (31%)	1,348	1,780	580	344	233	227	214	214	260	439	932	610
Above Normal (25%)	2,485	2,912	2,658	460	268	241	249	238	258	658	1,478	910
Below Normal (6%)	514	605	1,285	1,069	337	242	237	259	271	1,167	1,708	3,100
Dry (13%)	995	1,252	1,360	1,040	454	268	242	306	462	1,564	1,499	2,363
Critical (25%)	2,252	2,231	2,001	1,139	693	467	387	571	1,087	2,104	1,885	2,587

Alternative 2D (ELT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,918	2,319	2,553	1,109	510	409	345	664	1,121	2,057	1,804	2,508
20%	1,488	1,584	1,991	923	428	375	330	388	577	1,784	1,486	2,305
30%	1,279	1,384	1,719	736	407	325	312	337	457	1,691	1,443	2,164
40%	1,113	1,285	1,165	561	351	297	295	326	379	1,093	1,403	1,990
50%	1,064	992	957	554	304	270	283	290	344	903	1,386	1,979
60%	314	383	707	381	299	260	253	262	316	580	1,369	1,967
70%	264	307	564	348	288	256	246	246	265	501	1,129	548
80%	248	270	232	310	262	241	239	235	260	457	744	400
90%	240	239	220	264	258	233	213	207	229	396	677	334
Long Term												
Full Simulation Period[a]	946	1,076	1,217	601	364	301	285	353	514	1,086	1,269	1,538
Water Year Types[b]												
Wet (31%)	663	664	339	305	274	245	223	217	251	388	755	326
Above Normal (25%)	1,634	1,861	2,430	497	345	304	281	240	255	492	1,054	536
Below Normal (6%)	314	307	1,165	846	351	279	253	262	260	528	1,046	2,035
Dry (13%)	652	989	955	620	382	265	275	302	364	1,297	1,366	2,110
Critical (25%)	1,258	1,315	1,655	815	431	377	350	564	998	1,823	1,732	2,350

Alternative 2D (ELT) minus No Action Alternative (ELT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,173	-1,029	-462	-258	-311	-60	-70	43	-22	22	-129	-422
20%	-1,021	-1,481	-350	-341	-97	-80	17	-29	-82	-176	-317	-223
30%	-1,198	-1,528	-447	-449	-34	29	32	-34	-93	-179	-255	-316
40%	-1,349	-1,428	-506	-508	-19	6	40	-2	-85	-553	-245	-449
50%	-1,238	-1,579	-504	-282	-25	9	36	13	-85	-408	-208	-320
60%	-200	-295	-499	-181	10	16	17	4	-10	-399	-141	-9
70%	-76	-234	-210	-77	20	18	18	3	-29	-195	-243	-473
80%	-48	26	-87	-50	3	7	18	2	-3	-105	-585	-371
90%	-10	11	-23	7	27	8	3	0	4	-54	-302	-279
Long Term												
Full Simulation Period[a]	-686	-781	-305	-225	-79	-14	4	-2	-56	-228	-219	-321
Water Year Types[b]												
Wet (31%)	-685	-1,116	-240	-39	41	18	9	3	-8	-51	-177	-285
Above Normal (25%)	-852	-1,051	-227	37	77	63	31	1	-2	-166	-424	-374
Below Normal (6%)	-200	-298	-120	-223	14	37	17	3	-11	-639	-662	-1,065
Dry (13%)	-343	-263	-405	-420	-72	-3	33	-4	-99	-267	-133	-252
Critical (25%)	-994	-915	-346	-324	-262	-90	-37	-6	-90	-281	-153	-236

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-73-6. San Joaquin River at Jersey Point, Monthly EC

No Action Alternative (ELT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,091	3,348	3,016	1,366	821	469	414	621	1,143	2,035	1,933	2,930
20%	2,509	3,065	2,341	1,264	525	456	313	417	659	1,960	1,803	2,528
30%	2,477	2,912	2,166	1,184	441	297	280	371	550	1,870	1,698	2,481
40%	2,462	2,713	1,671	1,069	370	292	255	328	464	1,647	1,647	2,439
50%	2,302	2,572	1,461	837	329	260	246	278	429	1,311	1,594	2,299
60%	514	678	1,206	561	289	244	237	258	326	979	1,510	1,976
70%	341	541	774	425	268	238	228	243	294	696	1,372	1,021
80%	297	243	320	360	258	233	220	233	263	562	1,329	771
90%	249	228	242	257	231	224	211	207	225	449	979	613
Long Term												
Full Simulation Period[a]	1,632	1,857	1,523	826	443	315	281	355	569	1,313	1,488	1,859
Water Year Types[b]												
Wet (31%)	1,348	1,780	580	344	233	227	214	214	260	439	932	610
Above Normal (25%)	2,485	2,912	2,658	460	268	241	249	238	258	658	1,478	910
Below Normal (6%)	514	605	1,285	1,069	337	242	237	259	271	1,167	1,708	3,100
Dry (13%)	995	1,252	1,360	1,040	454	268	242	306	462	1,564	1,499	2,363
Critical (25%)	2,252	2,231	2,001	1,139	693	467	387	571	1,087	2,104	1,885	2,587

Alternative 4A (ELT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,185	2,511	2,816	1,216	560	433	365	615	1,106	2,177	2,142	2,887
20%	1,473	1,621	2,278	1,100	456	369	328	420	643	1,720	1,963	2,715
30%	1,395	1,453	1,856	763	350	340	313	358	518	1,288	1,659	2,494
40%	1,241	1,321	1,290	599	337	297	293	346	435	1,103	1,522	2,325
50%	1,152	1,101	1,014	572	313	267	288	292	383	819	1,251	2,198
60%	296	408	717	368	279	261	250	261	292	730	1,168	2,124
70%	255	322	581	346	269	255	243	252	267	472	1,098	516
80%	228	262	228	295	263	243	237	235	257	381	932	424
90%	224	238	219	245	257	228	213	207	230	337	829	384
Long Term												
Full Simulation Period[a]	1,019	1,157	1,305	635	365	307	292	358	549	1,050	1,384	1,737
Water Year Types[b]												
Wet (31%)	704	723	339	287	256	241	220	216	242	380	815	350
Above Normal (25%)	1,718	1,894	2,495	486	308	293	276	239	256	357	917	516
Below Normal (6%)	296	324	1,290	914	350	270	250	261	266	730	1,171	2,193
Dry (13%)	709	1,110	1,033	665	402	271	278	318	414	1,011	1,378	2,364
Critical (25%)	1,384	1,414	1,822	892	449	402	376	571	1,076	1,958	2,074	2,743

Alternative 4A (ELT) minus No Action Alternative (ELT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-906	-837	-200	-150	-261	-36	-49	-6	-37	**141**	**209**	-42
20%	-1,036	-1,444	-64	-164	-69	-87	**15**	**3**	-16	-240	**160**	**187**
30%	-1,082	-1,460	-310	-421	-92	**44**	**33**	-14	-32	-582	-40	**13**
40%	-1,221	-1,392	-380	-470	-33	**5**	**38**	**17**	-30	-543	-125	-115
50%	-1,149	-1,470	-447	-265	-16	**7**	**42**	**15**	-46	-492	-343	-101
60%	-219	-270	-489	-194	-10	**17**	**13**	**3**	-34	-249	-342	**148**
70%	-86	-219	-193	-79	**1**	**17**	**14**	**10**	-27	-224	-275	-505
80%	-69	**18**	-92	-65	**4**	**10**	**16**	**2**	-6	-181	-398	-347
90%	-25	**10**	-24	-12	**26**	**4**	**2**	0	**5**	-112	-150	-229
Long Term												
Full Simulation Period[a]	-613	-700	-218	-192	-78	-8	**11**	**4**	-21	-264	-104	-122
Water Year Types[b]												
Wet (31%)	-644	-1,057	-241	-57	**23**	**14**	**6**	**2**	-18	-59	-117	-261
Above Normal (25%)	-768	-1,018	-162	**25**	**40**	**52**	**27**	**0**	-1	-301	-561	-394
Below Normal (6%)	-219	-282	**5**	-155	**13**	**28**	**13**	**2**	-6	-437	-536	-907
Dry (13%)	-286	-142	-327	-374	-52	**3**	**36**	**12**	-48	-553	-121	**1**
Critical (25%)	-868	-816	-179	-247	-244	-65	-11	**0**	-12	-147	**190**	**156**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-73-7. San Joaquin River at Jersey Point, Monthly EC

No Action Alternative (ELT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,091	3,348	3,016	1,366	821	469	414	621	1,143	2,035	1,933	2,930
20%	2,509	3,065	2,341	1,264	525	456	313	417	659	1,960	1,803	2,528
30%	2,477	2,912	2,166	1,184	441	297	280	371	550	1,870	1,698	2,481
40%	2,462	2,713	1,671	1,069	370	292	255	328	464	1,647	1,647	2,439
50%	2,302	2,572	1,461	837	329	260	246	278	429	1,311	1,594	2,299
60%	514	678	1,206	561	289	244	237	258	326	979	1,510	1,976
70%	341	541	774	425	268	238	228	243	294	696	1,372	1,021
80%	297	243	320	360	258	233	220	233	263	562	1,329	771
90%	249	228	242	257	231	224	211	207	225	449	979	613
Long Term												
Full Simulation Period[a]	1,632	1,857	1,523	826	443	315	281	355	569	1,313	1,488	1,859
Water Year Types[b]												
Wet (31%)	1,348	1,780	580	344	233	227	214	214	260	439	932	610
Above Normal (25%)	2,485	2,912	2,658	460	268	241	249	238	258	658	1,478	910
Below Normal (6%)	514	605	1,285	1,069	337	242	237	259	271	1,167	1,708	3,100
Dry (13%)	995	1,252	1,360	1,040	454	268	242	306	462	1,564	1,499	2,363
Critical (25%)	2,252	2,231	2,001	1,139	693	467	387	571	1,087	2,104	1,885	2,587

Alternative 5A (ELT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,785	3,258	2,757	1,363	823	458	397	592	1,043	1,981	1,689	2,453
20%	2,615	3,023	2,189	1,229	541	446	307	379	588	1,827	1,551	2,271
30%	2,402	2,787	2,172	1,099	446	299	289	351	461	1,736	1,469	2,129
40%	2,299	2,506	1,581	1,004	378	287	280	314	415	1,133	1,441	1,989
50%	2,113	2,377	1,313	841	321	273	248	278	385	977	1,351	1,830
60%	345	665	1,065	595	302	250	242	261	312	899	1,241	1,736
70%	288	317	721	438	274	245	233	244	281	649	1,166	623
80%	239	262	354	359	259	238	221	233	262	468	952	417
90%	234	221	260	262	239	228	210	208	231	437	624	355
Long Term												
Full Simulation Period[a]	1,520	1,772	1,449	812	437	314	280	342	517	1,146	1,261	1,514
Water Year Types[b]												
Wet (31%)	1,246	1,710	530	363	239	232	218	216	253	401	807	357
Above Normal (25%)	2,543	3,110	2,769	477	274	250	258	241	262	628	1,062	571
Below Normal (6%)	345	316	1,225	1,035	339	250	242	261	262	949	1,141	2,164
Dry (13%)	923	1,141	1,261	922	425	274	249	296	400	1,453	1,356	1,953
Critical (25%)	2,044	2,083	1,851	1,172	690	449	369	535	973	1,744	1,651	2,335

Alternative 5A (ELT) minus No Action Alternative (ELT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-306	-90	-259	-3	2	-10	-17	-30	-100	-54	-244	-477
20%	106	-42	-152	-35	16	-10	-6	-39	-71	-133	-252	-258
30%	-75	-125	6	-86	5	2	9	-20	-90	-134	-229	-352
40%	-163	-207	-90	-65	8	-5	25	-14	-49	-514	-206	-451
50%	-189	-194	-148	5	-7	13	2	1	-44	-334	-243	-469
60%	-170	-13	-141	33	13	5	5	4	-14	-80	-268	-240
70%	-53	-224	-53	14	6	7	5	1	-14	-48	-207	-398
80%	-58	19	34	0	1	5	1	0	-1	-94	-378	-354
90%	-15	-6	18	5	8	3	-1	1	6	-13	-355	-258
Long Term												
Full Simulation Period[a]	-112	-85	-74	-14	-6	-1	-1	-13	-53	-167	-228	-345
Water Year Types[b]												
Wet (31%)	-102	-71	-50	19	6	5	3	2	-7	-37	-125	-253
Above Normal (25%)	57	198	111	17	6	9	8	3	5	-30	-416	-339
Below Normal (6%)	-170	-289	-60	-34	2	7	5	2	-9	-218	-566	-936
Dry (13%)	-72	-111	-99	-118	-29	6	8	-10	-62	-111	-143	-410
Critical (25%)	-208	-148	-150	33	-3	-18	-18	-36	-114	-361	-234	-252

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

C.74. Sacramento River at Collinsville Salinity

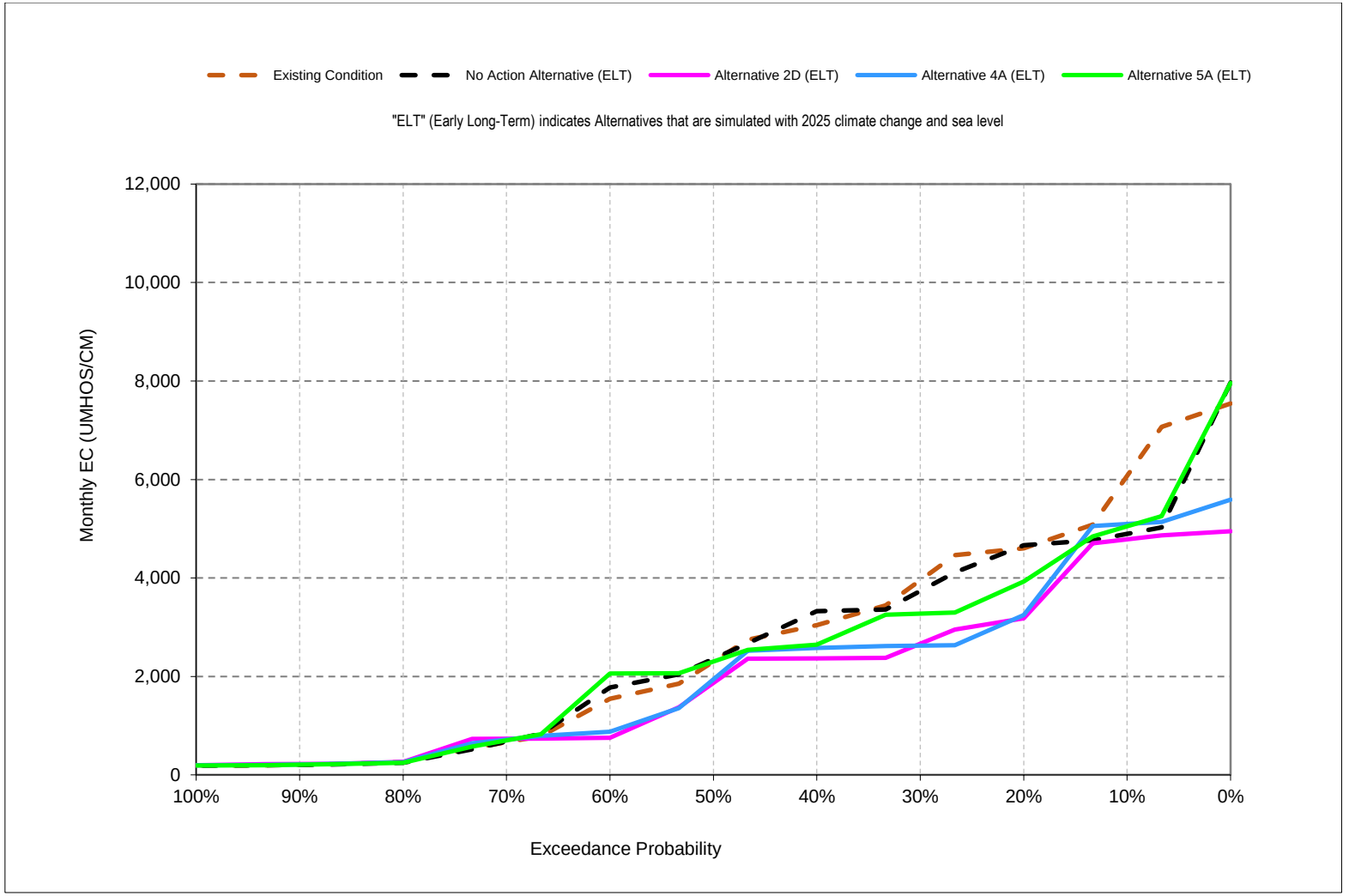


Figure C-74-1. Sacramento River at Collinsville, January EC

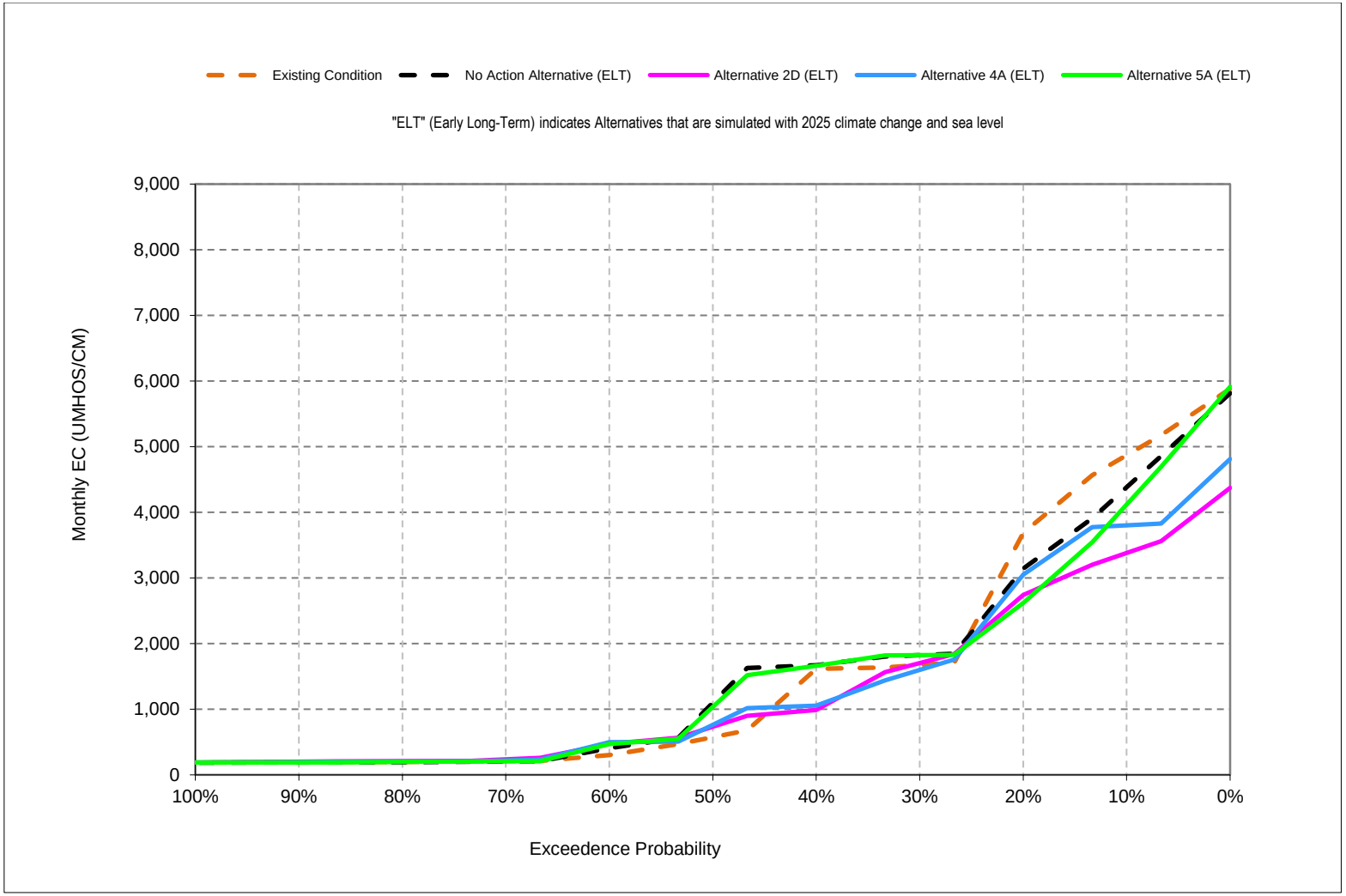


Figure C-74-2. Sacramento River at Collinsville, February EC

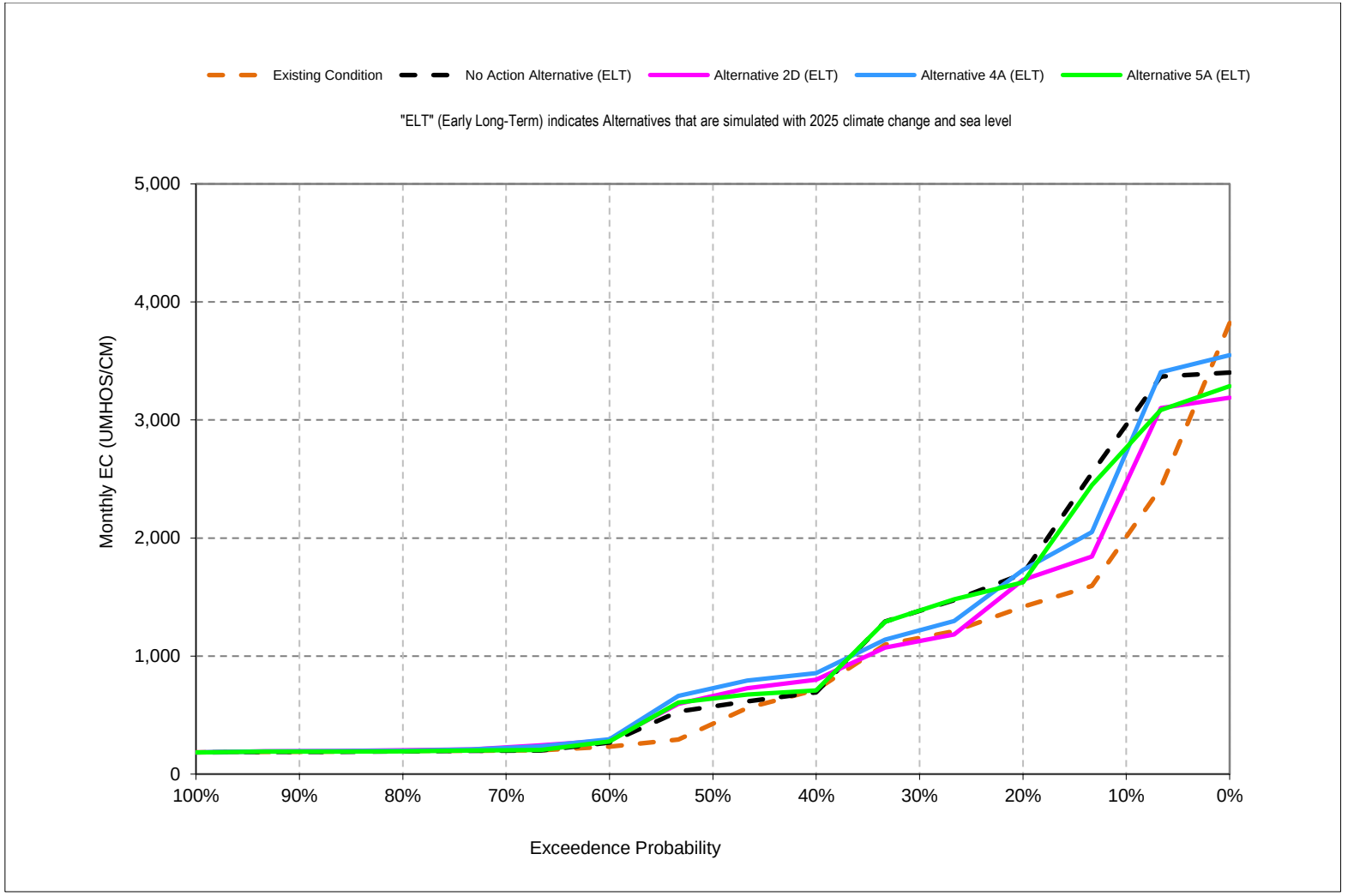


Figure C-74-3. Sacramento River at Collinsville, March EC

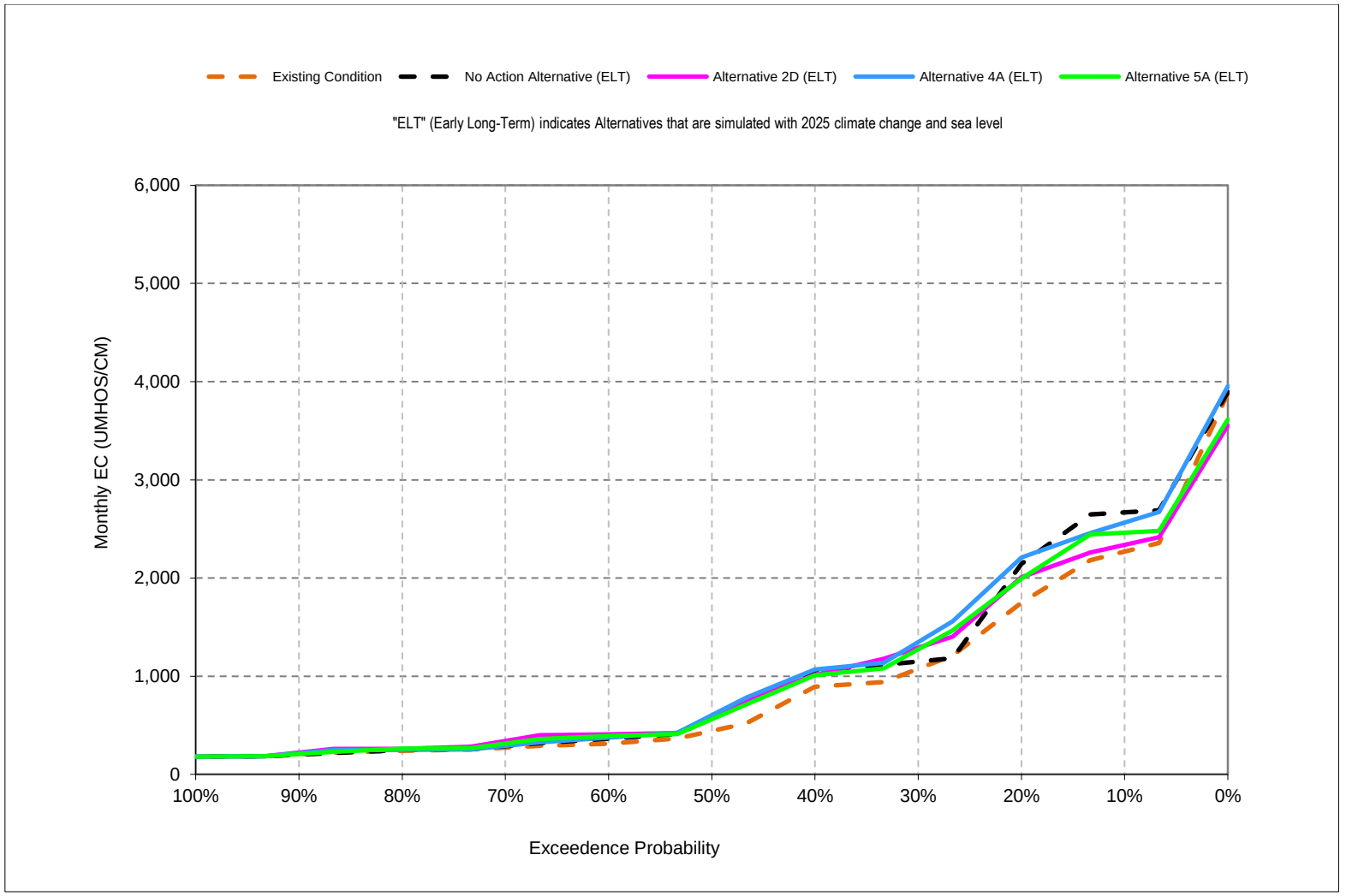


Figure C-74-4. Sacramento River at Collinsville, April EC

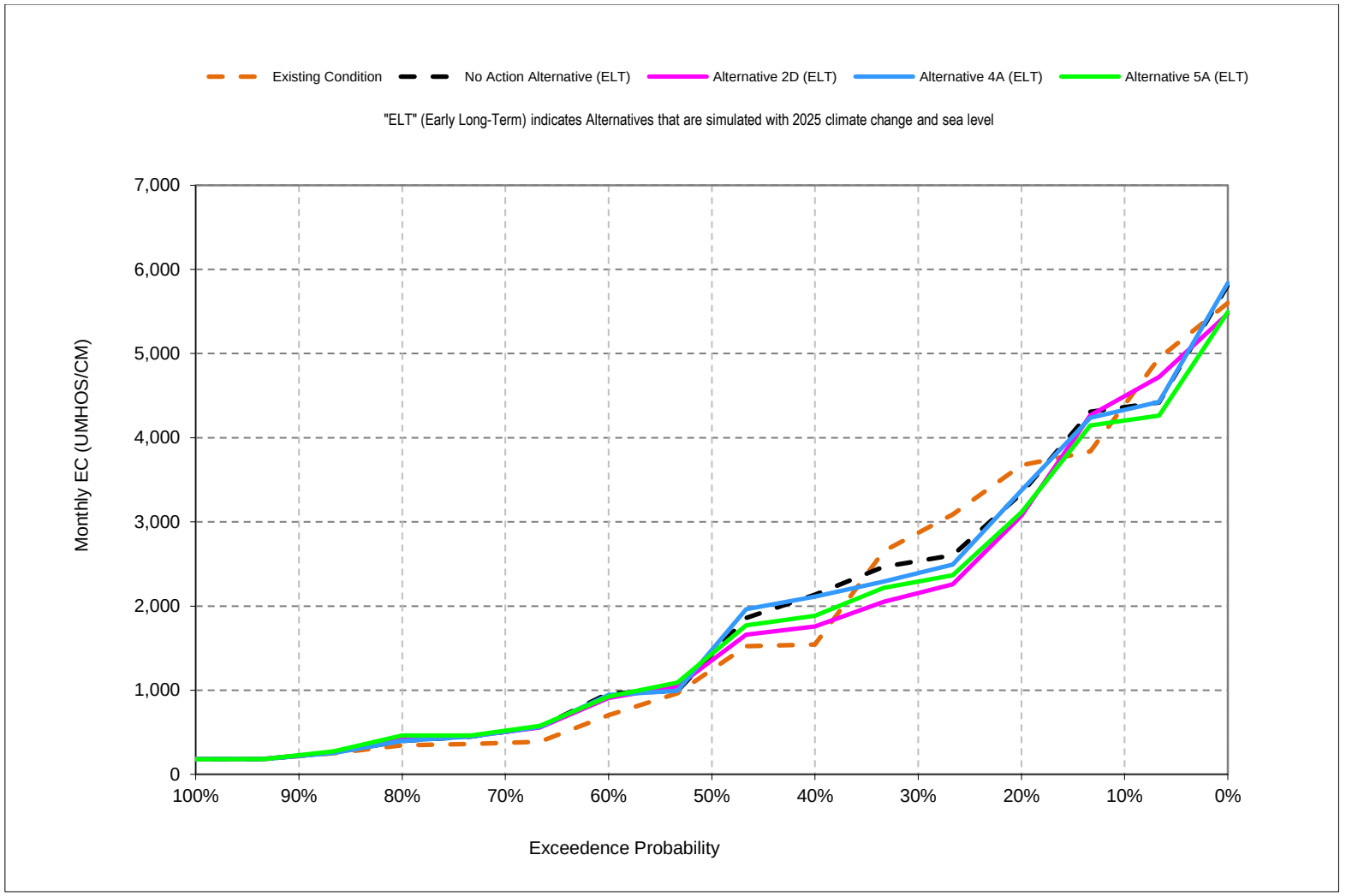


Figure C-74-5. Sacramento River at Collinsville, May EC

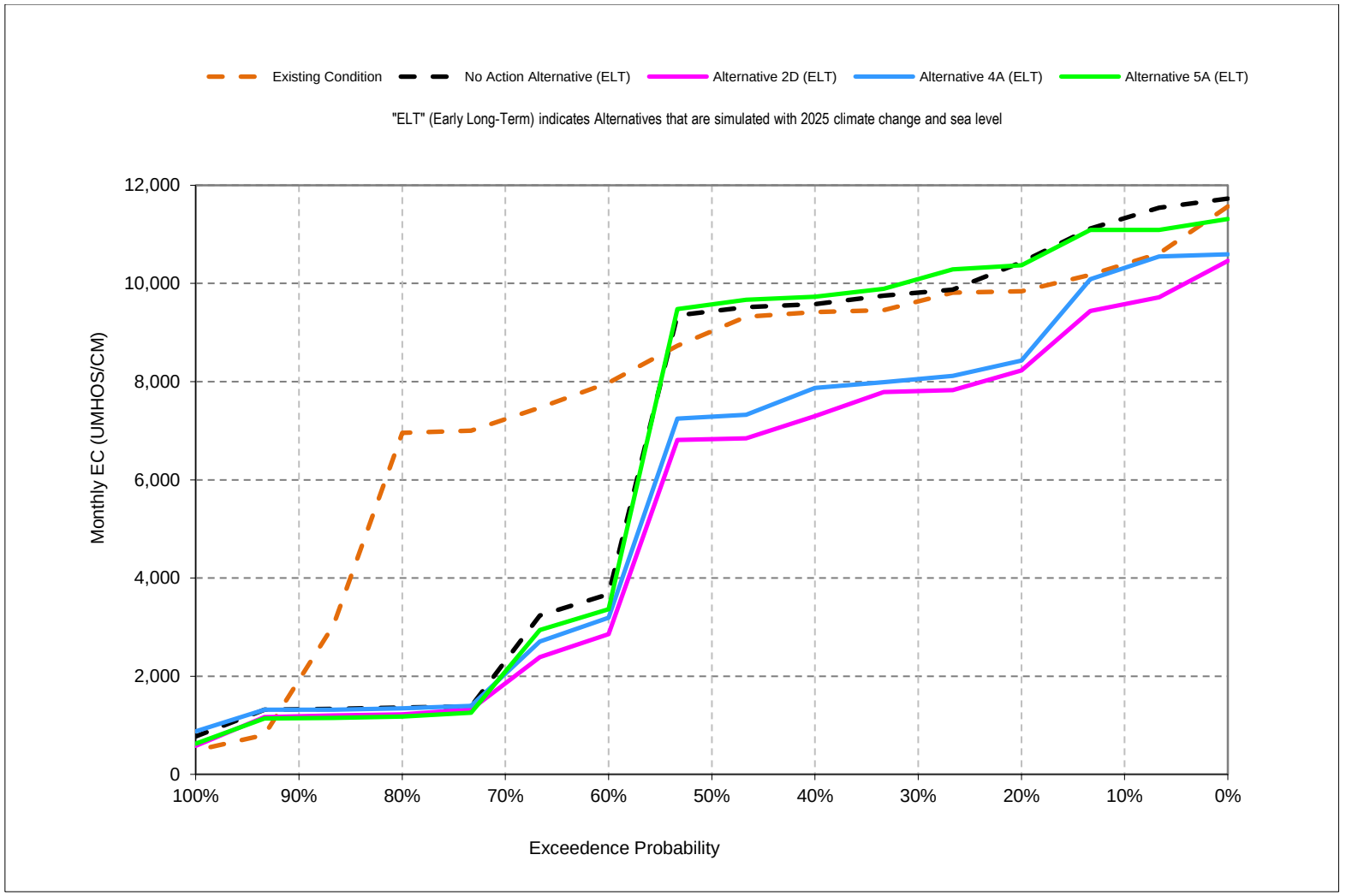


Figure C-74-10. Sacramento River at Collinsville, October EC

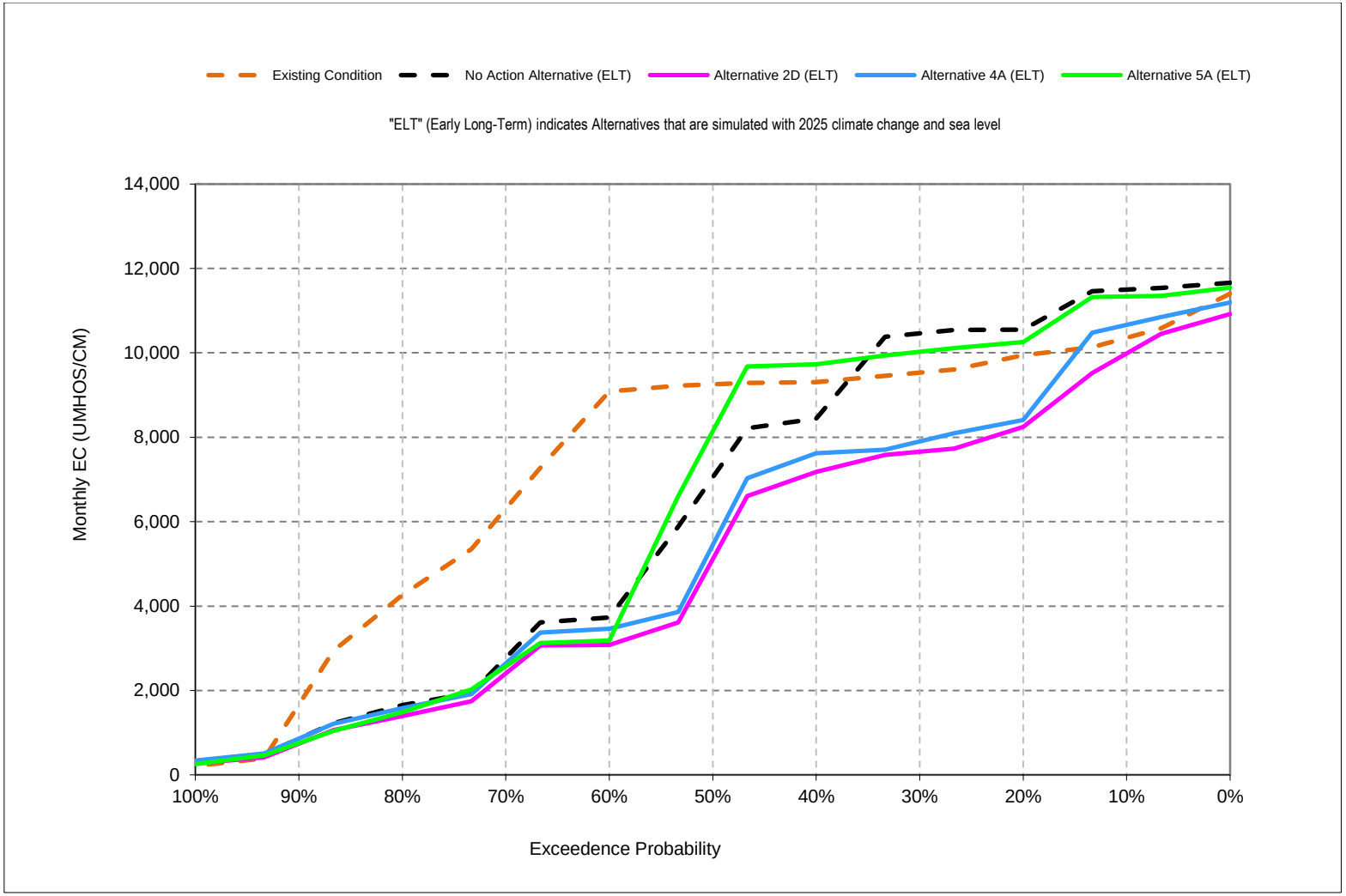


Figure C-74-11. Sacramento River at Collinsville, November EC

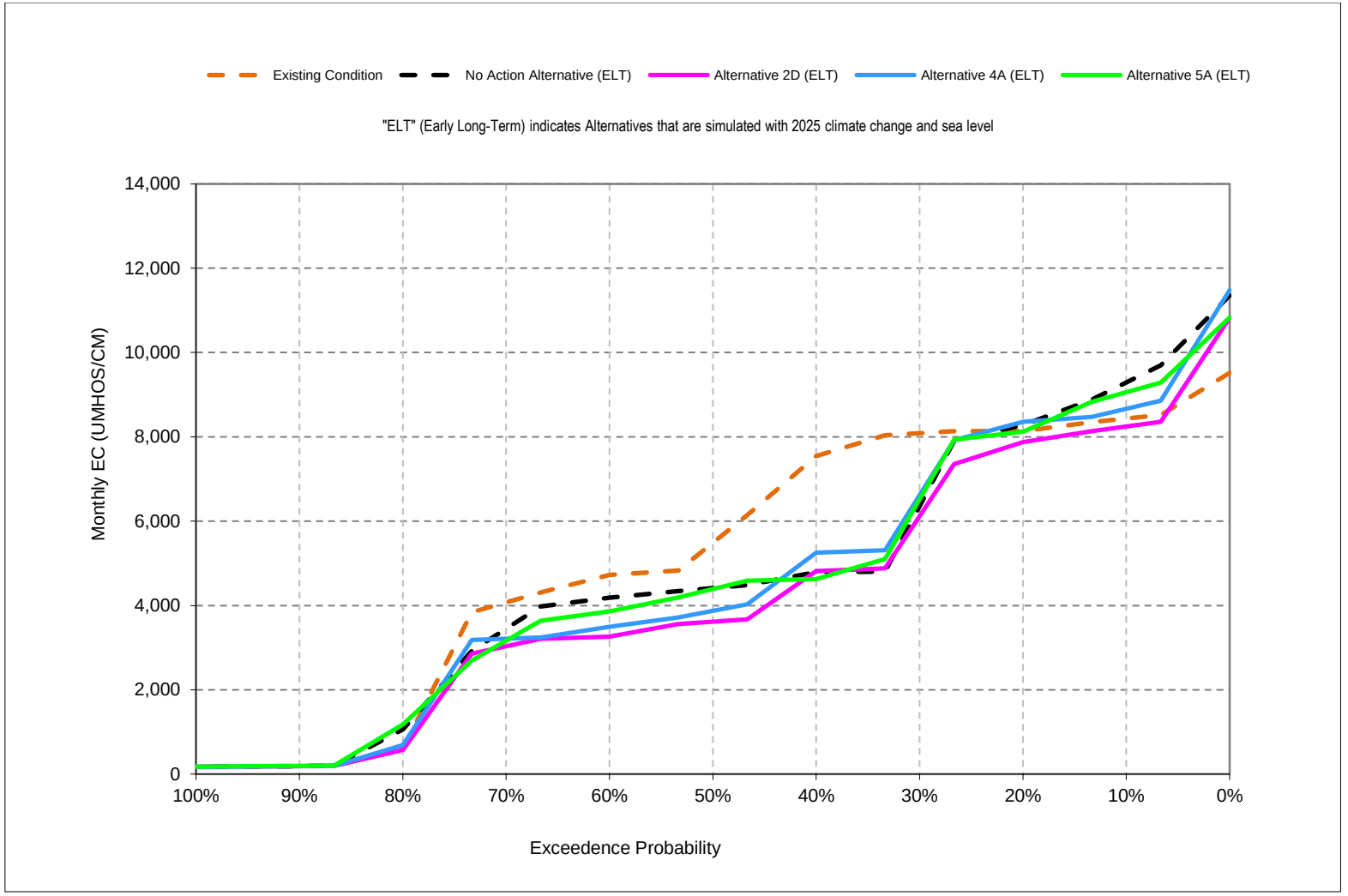


Figure C-74-12. Sacramento River at Collinsville, December EC

Table C-74-1. Sacramento River at Collinsville, Monthly EC

Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	10,394	10,358	8,432	6,076	4,870	2,011	2,270	4,392	6,806	7,799	7,948	9,554
20%	9,839	9,941	8,134	4,604	3,685	1,419	1,748	3,674	5,180	6,392	7,393	9,293
30%	9,634	9,531	8,085	3,955	1,676	1,154	1,076	2,872	4,026	5,912	6,456	8,642
40%	9,415	9,308	7,543	3,041	1,617	713	892	1,542	3,067	4,966	5,734	8,304
50%	9,024	9,252	5,486	2,301	575	427	444	1,243	3,014	4,859	5,087	7,861
60%	7,976	9,083	4,728	1,548	303	234	313	704	2,027	3,510	4,888	7,485
70%	7,234	6,314	4,077	667	209	202	273	375	1,390	2,638	4,742	7,217
80%	6,957	4,267	607	267	197	199	242	346	922	2,141	4,642	6,593
90%	1,923	1,669	193	210	192	191	204	218	495	1,911	4,429	3,940
Long Term												
Full Simulation Period[a]	7,666	7,404	5,204	2,726	1,682	909	987	1,891	3,213	4,503	5,580	7,280
Water Year Types[b]												
Wet (31%)	4,965	3,975	1,220	617	193	191	235	354	959	1,797	3,537	4,029
Above Normal (25%)	10,211	8,928	6,136	404	209	201	231	307	797	2,126	4,742	6,697
Below Normal (6%)	7,467	9,083	8,517	3,446	472	234	368	388	1,475	3,510	4,895	8,304
Dry (13%)	8,027	8,294	5,808	3,496	2,031	666	729	1,670	3,219	5,090	5,438	7,789
Critical (25%)	8,560	8,489	6,872	4,581	3,427	2,095	2,222	4,230	6,327	7,346	7,801	9,503

No Action Alternative (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	11,328	11,500	9,290	4,897	4,382	2,959	2,668	4,363	6,398	7,418	8,038	9,963
20%	10,431	10,547	8,279	4,663	3,144	1,696	2,145	3,338	4,733	6,031	7,977	9,803
30%	9,811	10,459	6,356	3,736	1,824	1,384	1,150	2,535	4,159	5,816	6,736	8,992
40%	9,576	8,439	4,789	3,328	1,670	693	1,061	2,136	3,509	5,304	6,094	8,803
50%	9,432	7,050	4,414	2,359	1,098	574	569	1,425	3,266	4,727	5,303	8,072
60%	3,669	3,728	4,186	1,776	408	269	362	964	2,392	3,246	5,084	7,004
70%	2,312	2,778	3,452	678	206	199	288	507	1,911	3,008	5,047	3,325
80%	1,366	1,656	1,062	249	194	194	249	397	1,449	2,387	4,734	2,018
90%	1,327	859	194	206	190	190	202	223	1,044	2,313	3,965	1,581
Long Term												
Full Simulation Period[a]	6,623	6,351	4,829	2,620	1,676	1,065	1,103	1,934	3,418	4,553	5,805	6,442
Water Year Types[b]												
Wet (31%)	5,308	4,304	1,228	595	190	190	246	445	1,394	1,827	3,769	1,489
Above Normal (25%)	10,433	9,878	6,348	384	206	197	234	329	1,456	3,008	5,091	3,325
Below Normal (6%)	3,669	3,728	4,805	2,676	566	269	413	564	1,449	4,209	6,094	8,956
Dry (13%)	4,370	4,667	4,528	3,536	1,937	829	836	1,863	3,461	4,869	5,414	7,988
Critical (25%)	8,543	8,450	7,347	4,392	3,466	2,462	2,487	4,096	6,183	7,167	7,975	9,912

No Action Alternative (ELT) minus Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	934	1,142	857	-1,180	-487	948	397	-28	-408	-381	90	409
20%	592	605	146	59	-541	277	397	-336	-448	-360	585	510
30%	177	928	-1,729	-219	149	230	74	-336	133	-96	280	350
40%	161	-869	-2,755	287	52	-20	168	595	442	338	360	499
50%	409	-2,203	-1,072	58	523	146	125	182	253	-132	216	210
60%	-4,307	-5,355	-542	227	104	35	50	260	365	-264	196	-481
70%	-4,922	-3,536	-625	11	-3	-3	15	132	521	370	305	-3,892
80%	-5,591	-2,611	455	-18	-3	-5	7	52	527	247	92	-4,574
90%	-596	-810	0	-4	-2	-1	-2	4	549	401	-464	-2,359
Long Term												
Full Simulation Period[a]	-1,044	-1,053	-375	-105	-6	157	116	43	205	50	225	-839
Water Year Types[b]												
Wet (31%)	343	329	8	-23	-2	-1	12	91	436	29	232	-2,540
Above Normal (25%)	222	950	212	-21	-3	-4	3	22	659	882	349	-3,372
Below Normal (6%)	-3,798	-5,355	-3,712	-770	94	35	45	176	-26	699	1,198	652
Dry (13%)	-3,657	-3,627	-1,280	41	-94	162	108	193	241	-221	-24	198
Critical (25%)	-17	-39	476	-190	39	367	265	-133	-144	-179	174	408

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

Table C-74-2. Sacramento River at Collinsville, Monthly EC

Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	10,394	10,358	8,432	6,076	4,870	2,011	2,270	4,392	6,806	7,799	7,948	9,554
20%	9,839	9,941	8,134	4,604	3,685	1,419	1,748	3,674	5,180	6,392	7,393	9,293
30%	9,634	9,531	8,085	3,955	1,676	1,154	1,076	2,872	4,026	5,912	6,456	8,642
40%	9,415	9,308	7,543	3,041	1,617	713	892	1,542	3,067	4,966	5,734	8,304
50%	9,024	9,252	5,486	2,301	575	427	444	1,243	3,014	4,859	5,087	7,861
60%	7,976	9,083	4,728	1,548	303	234	313	704	2,027	3,510	4,888	7,485
70%	7,234	6,314	4,077	667	209	202	273	375	1,390	2,638	4,742	7,217
80%	6,957	4,267	607	267	197	199	242	346	922	2,141	4,642	6,593
90%	1,923	1,669	193	210	192	191	204	218	495	1,911	4,429	3,940
Long Term												
Full Simulation Period[a]	7,666	7,404	5,204	2,726	1,682	909	987	1,891	3,213	4,503	5,580	7,280
Water Year Types[b]												
Wet (31%)	4,965	3,975	1,220	617	193	191	235	354	959	1,797	3,537	4,029
Above Normal (25%)	10,211	8,928	6,136	404	209	201	231	307	797	2,126	4,742	6,697
Below Normal (6%)	7,467	9,083	8,517	3,446	472	234	368	388	1,475	3,510	4,895	8,304
Dry (13%)	8,027	8,294	5,808	3,496	2,031	666	729	1,670	3,219	5,090	5,438	7,789
Critical (25%)	8,560	8,489	6,872	4,581	3,427	2,095	2,222	4,230	6,327	7,346	7,801	9,503

Alternative 2D (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,577	9,986	8,247	4,784	3,382	2,472	2,338	4,494	6,384	8,421	8,552	9,630
20%	8,226	8,244	7,872	3,184	2,741	1,646	2,009	3,077	4,239	6,504	7,840	9,390
30%	7,806	7,657	6,118	2,665	1,705	1,128	1,290	2,156	3,664	5,973	6,694	9,134
40%	7,299	7,179	4,819	2,369	988	800	1,014	1,758	2,733	4,934	6,375	8,755
50%	6,826	5,109	3,617	1,868	732	661	590	1,354	2,532	4,193	5,985	8,533
60%	2,857	3,080	3,264	753	476	287	408	909	2,354	2,642	5,195	7,765
70%	1,858	2,407	3,033	736	238	228	340	506	1,231	2,496	4,679	3,141
80%	1,221	1,396	575	262	210	203	261	421	867	2,296	4,543	1,873
90%	1,185	741	194	223	203	195	223	225	719	2,046	4,328	1,535
Long Term												
Full Simulation Period[a]	5,322	5,181	4,372	2,017	1,344	980	1,062	1,831	2,989	4,476	5,928	6,409
Water Year Types[b]												
Wet (31%)	4,005	2,871	958	504	204	198	260	460	1,096	1,825	3,990	1,422
Above Normal (25%)	8,651	8,763	6,376	500	234	220	271	358	855	2,184	4,671	3,141
Below Normal (6%)	2,857	3,080	4,819	2,369	565	287	424	558	1,237	4,031	6,375	8,885
Dry (13%)	3,554	4,166	3,898	2,550	1,683	826	893	1,595	2,738	4,429	5,721	8,587
Critical (25%)	6,951	6,828	6,591	3,336	2,583	2,170	2,284	3,960	5,909	7,642	8,057	9,467

Alternative 2D (ELT) minus Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-816	-372	-186	-1,293	-1,488	461	68	103	-421	622	605	76
20%	-1,613	-1,698	-261	-1,420	-944	227	261	-597	-942	112	447	97
30%	-1,828	-1,873	-1,966	-1,290	29	-26	214	-716	-362	61	238	493
40%	-2,116	-2,130	-2,724	-672	-629	86	122	216	-334	-32	642	451
50%	-2,197	-4,143	-1,869	-433	157	234	146	111	-481	-666	898	672
60%	-5,119	-6,003	-1,465	-795	172	53	96	205	327	-868	307	280
70%	-5,375	-3,906	-1,044	69	29	26	67	131	-159	-142	-63	-4,076
80%	-5,736	-2,871	-32	-4	13	4	19	76	-55	156	-99	-4,719
90%	-738	-928	0	13	10	5	19	6	224	135	-101	-2,404
Long Term												
Full Simulation Period[a]	-2,344	-2,223	-832	-709	-339	71	75	-60	-224	-26	347	-872
Water Year Types[b]												
Wet (31%)	-960	-1,104	-262	-113	11	7	25	106	138	28	453	-2,608
Above Normal (25%)	-1,560	-165	240	95	25	19	40	51	58	58	-71	-3,556
Below Normal (6%)	-4,610	-6,003	-3,697	-1,076	93	53	56	170	-239	521	1,480	581
Dry (13%)	-4,473	-4,128	-1,910	-946	-347	160	164	-76	-482	-661	283	798
Critical (25%)	-1,609	-1,662	-281	-1,245	-844	76	61	-270	-418	296	255	-36

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-74-3. Sacramento River at Collinsville, Monthly EC

Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	10,394	10,358	8,432	6,076	4,870	2,011	2,270	4,392	6,806	7,799	7,948	9,554
20%	9,839	9,941	8,134	4,604	3,685	1,419	1,748	3,674	5,180	6,392	7,393	9,293
30%	9,634	9,531	8,085	3,955	1,676	1,154	1,076	2,872	4,026	5,912	6,456	8,642
40%	9,415	9,308	7,543	3,041	1,617	713	892	1,542	3,067	4,966	5,734	8,304
50%	9,024	9,252	5,486	2,301	575	427	444	1,243	3,014	4,859	5,087	7,861
60%	7,976	9,083	4,728	1,548	303	234	313	704	2,027	3,510	4,888	7,485
70%	7,234	6,314	4,077	667	209	202	273	375	1,390	2,638	4,742	7,217
80%	6,957	4,267	607	267	197	199	242	346	922	2,141	4,642	6,593
90%	1,923	1,669	193	210	192	191	204	218	495	1,911	4,429	3,940
Long Term												
Full Simulation Period[a]	7,666	7,404	5,204	2,726	1,682	909	987	1,891	3,213	4,503	5,580	7,280
Water Year Types[b]												
Wet (31%)	4,965	3,975	1,220	617	193	191	235	354	959	1,797	3,537	4,029
Above Normal (25%)	10,211	8,928	6,136	404	209	201	231	307	797	2,126	4,742	6,697
Below Normal (6%)	7,467	9,083	8,517	3,446	472	234	368	388	1,475	3,510	4,895	8,304
Dry (13%)	8,027	8,294	5,808	3,496	2,031	666	729	1,670	3,219	5,090	5,438	7,789
Critical (25%)	8,560	8,489	6,872	4,581	3,427	2,095	2,222	4,230	6,327	7,346	7,801	9,503

Alternative 4A (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	10,317	10,665	8,667	5,095	3,802	2,728	2,565	4,332	6,388	8,755	8,972	10,272
20%	8,426	8,407	8,357	3,246	3,049	1,731	2,209	3,374	4,614	7,535	8,477	9,979
30%	8,052	7,903	6,615	2,626	1,599	1,218	1,348	2,393	3,994	6,541	7,511	9,677
40%	7,872	7,622	5,253	2,577	1,055	855	1,069	2,113	3,406	5,688	6,771	9,367
50%	7,284	5,445	3,875	1,941	763	728	604	1,477	3,061	4,960	6,618	9,289
60%	3,192	3,467	3,496	877	500	297	374	945	2,071	4,472	5,885	8,930
70%	2,051	2,641	3,214	720	223	222	290	506	1,260	2,901	5,438	3,401
80%	1,349	1,584	691	256	205	198	250	399	921	2,679	5,053	2,126
90%	1,317	862	192	216	198	195	218	219	778	2,336	5,035	1,681
Long Term												
Full Simulation Period[a]	5,647	5,478	4,661	2,121	1,436	1,062	1,131	1,919	3,192	5,047	6,540	6,907
Water Year Types[b]												
Wet (31%)	4,337	3,105	951	497	198	196	249	440	1,010	2,106	4,463	1,580
Above Normal (25%)	8,935	8,942	6,587	450	223	215	250	327	917	2,524	5,088	3,401
Below Normal (6%)	3,192	3,467	5,309	2,577	508	297	426	563	1,388	4,472	6,771	9,367
Dry (13%)	3,877	4,515	4,173	2,793	1,846	902	951	1,839	3,253	5,447	6,636	9,413
Critical (25%)	7,288	7,164	7,120	3,460	2,770	2,375	2,472	4,074	6,159	8,204	8,661	10,073

Alternative 4A (ELT) minus Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-76	307	234	-982	-1,067	717	295	-60	-418	957	1,025	718
20%	-1,413	-1,534	224	-1,358	-636	312	461	-300	-567	1,143	1,084	686
30%	-1,582	-1,628	-1,470	-1,329	-77	64	272	-479	-32	629	1,055	1,036
40%	-1,543	-1,687	-2,291	-464	-562	142	176	571	339	722	1,037	1,063
50%	-1,740	-3,807	-1,611	-359	188	301	160	234	48	101	1,531	1,428
60%	-4,784	-5,616	-1,232	-671	197	63	61	241	44	962	997	1,445
70%	-5,183	-3,673	-864	53	13	20	17	131	-129	263	695	-3,816
80%	-5,608	-2,683	84	-10	7	-1	8	54	-1	538	411	-4,466
90%	-605	-807	-2	5	5	4	14	1	283	425	606	-2,259
Long Term												
Full Simulation Period[a]	-2,019	-1,926	-542	-605	-246	153	143	29	-22	544	960	-374
Water Year Types[b]												
Wet (31%)	-628	-870	-269	-120	5	5	15	86	51	309	926	-2,449
Above Normal (25%)	-1,276	14	451	46	13	14	19	20	120	398	346	-3,296
Below Normal (6%)	-4,275	-5,616	-3,208	-868	36	63	59	175	-87	962	1,876	1,063
Dry (13%)	-4,150	-3,779	-1,635	-703	-184	236	222	169	33	356	1,198	1,624
Critical (25%)	-1,272	-1,326	248	-1,122	-657	280	250	-156	-167	858	859	570

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-74-4. Sacramento River at Collinsville, Monthly EC

Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	10,394	10,358	8,432	6,076	4,870	2,011	2,270	4,392	6,806	7,799	7,948	9,554
20%	9,839	9,941	8,134	4,604	3,685	1,419	1,748	3,674	5,180	6,392	7,393	9,293
30%	9,634	9,531	8,085	3,955	1,676	1,154	1,076	2,872	4,026	5,912	6,456	8,642
40%	9,415	9,308	7,543	3,041	1,617	713	892	1,542	3,067	4,966	5,734	8,304
50%	9,024	9,252	5,486	2,301	575	427	444	1,243	3,014	4,859	5,087	7,861
60%	7,976	9,083	4,728	1,548	303	234	313	704	2,027	3,510	4,888	7,485
70%	7,234	6,314	4,077	667	209	202	273	375	1,390	2,638	4,742	7,217
80%	6,957	4,267	607	267	197	199	242	346	922	2,141	4,642	6,593
90%	1,923	1,669	193	210	192	191	204	218	495	1,911	4,429	3,940
Long Term												
Full Simulation Period[a]	7,666	7,404	5,204	2,726	1,682	909	987	1,891	3,213	4,503	5,580	7,280
Water Year Types[b]												
Wet (31%)	4,965	3,975	1,220	617	193	191	235	354	959	1,797	3,537	4,029
Above Normal (25%)	10,211	8,928	6,136	404	209	201	231	307	797	2,126	4,742	6,697
Below Normal (6%)	7,467	9,083	8,517	3,446	472	234	368	388	1,475	3,510	4,895	8,304
Dry (13%)	8,027	8,294	5,808	3,496	2,031	666	729	1,670	3,219	5,090	5,438	7,789
Critical (25%)	8,560	8,489	6,872	4,581	3,427	2,095	2,222	4,230	6,327	7,346	7,801	9,503

Alternative 5A (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	11,088	11,337	9,057	5,050	4,118	2,766	2,463	4,205	6,135	8,408	8,441	9,657
20%	10,372	10,258	8,126	3,931	2,621	1,626	1,995	3,113	4,362	6,396	7,816	9,149
30%	10,089	10,025	6,516	3,276	1,826	1,385	1,274	2,292	3,704	5,271	6,324	9,110
40%	9,727	9,728	4,630	2,646	1,661	709	1,010	1,885	3,122	4,996	5,995	8,579
50%	9,573	8,142	4,391	2,301	1,035	641	561	1,430	2,972	4,329	5,350	8,063
60%	3,364	3,186	3,860	2,060	470	277	391	926	2,356	3,093	4,849	7,429
70%	2,098	2,576	3,169	703	209	203	316	521	1,858	2,859	4,787	3,063
80%	1,181	1,489	1,179	248	199	194	263	464	1,407	2,539	4,468	1,822
90%	1,145	753	200	210	191	191	207	230	1,095	2,368	3,929	1,502
Long Term												
Full Simulation Period[a]	6,535	6,383	4,717	2,507	1,613	1,041	1,068	1,839	3,211	4,530	5,720	6,306
Water Year Types[b]												
Wet (31%)	5,319	4,397	1,302	669	192	192	255	480	1,368	1,891	3,723	1,384
Above Normal (25%)	10,729	10,637	6,516	413	209	200	249	370	1,565	2,875	4,821	3,063
Below Normal (6%)	3,364	3,124	4,592	2,538	550	277	411	577	1,255	3,797	5,995	9,149
Dry (13%)	4,087	4,507	4,377	2,984	1,645	868	905	1,700	3,075	4,519	5,284	8,168
Critical (25%)	8,424	8,423	7,026	4,428	3,499	2,347	2,309	3,877	5,844	7,458	7,970	9,483

Alternative 5A (ELT) minus Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	694	979	625	-1,027	-751	755	193	-187	-670	610	493	104
20%	533	316	-8	-673	-1,065	207	247	-560	-819	5	424	-144
30%	455	494	-1,568	-679	150	231	199	-580	-322	-640	-132	468
40%	312	420	-2,914	-395	43	-5	118	344	55	30	262	275
50%	550	-1,110	-1,095	0	460	213	117	187	-41	-530	263	202
60%	-4,612	-5,898	-868	512	166	43	78	223	330	-417	-38	-55
70%	-5,136	-3,738	-908	37	0	1	43	146	468	221	44	-4,154
80%	-5,776	-2,778	572	-19	2	-4	21	118	485	398	-174	-4,770
90%	-777	-916	6	0	-1	1	3	12	600	457	-500	-2,437
Long Term												
Full Simulation Period[a]	-1,131	-1,021	-487	-219	-69	132	81	-52	-3	27	139	-974
Water Year Types[b]												
Wet (31%)	354	422	82	52	0	1	21	126	409	94	186	-2,645
Above Normal (25%)	518	1,709	380	9	0	-2	18	62	768	750	79	-3,634
Below Normal (6%)	-4,104	-5,960	-3,925	-908	78	43	43	189	-220	287	1,100	846
Dry (13%)	-3,940	-3,787	-1,431	-512	-386	201	176	29	-144	-571	-154	379
Critical (25%)	-136	-66	154	-154	72	252	87	-353	-483	112	169	-21

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-74-5. Sacramento River at Collinsville, Monthly EC

No Action Alternative (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	11,328	11,500	9,290	4,897	4,382	2,959	2,668	4,363	6,398	7,418	8,038	9,963
20%	10,431	10,547	8,279	4,663	3,144	1,696	2,145	3,338	4,733	6,031	7,977	9,803
30%	9,811	10,459	6,356	3,736	1,824	1,384	1,150	2,535	4,159	5,816	6,736	8,992
40%	9,576	8,439	4,789	3,328	1,670	693	1,061	2,136	3,509	5,304	6,094	8,803
50%	9,432	7,050	4,414	2,359	1,098	574	569	1,425	3,266	4,727	5,303	8,072
60%	3,669	3,728	4,186	1,776	408	269	362	964	2,392	3,246	5,084	7,004
70%	2,312	2,778	3,452	678	206	199	288	507	1,911	3,008	5,047	3,325
80%	1,366	1,656	1,062	249	194	194	249	397	1,449	2,387	4,734	2,018
90%	1,327	859	194	206	190	190	202	223	1,044	2,313	3,965	1,581
Long Term												
Full Simulation Period[a]	6,623	6,351	4,829	2,620	1,676	1,065	1,103	1,934	3,418	4,553	5,805	6,442
Water Year Types[b]												
Wet (31%)	5,308	4,304	1,228	595	190	190	246	445	1,394	1,827	3,769	1,489
Above Normal (25%)	10,433	9,878	6,348	384	206	197	234	329	1,456	3,008	5,091	3,325
Below Normal (6%)	3,669	3,728	4,805	2,676	566	269	413	564	1,449	4,209	6,094	8,956
Dry (13%)	4,370	4,667	4,528	3,536	1,937	829	836	1,863	3,461	4,869	5,414	7,988
Critical (25%)	8,543	8,450	7,347	4,392	3,466	2,462	2,487	4,096	6,183	7,167	7,975	9,912

Alternative 2D (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,577	9,986	8,247	4,784	3,382	2,472	2,338	4,494	6,384	8,421	8,552	9,630
20%	8,226	8,244	7,872	3,184	2,741	1,646	2,009	3,077	4,239	6,504	7,840	9,390
30%	7,806	7,657	6,118	2,665	1,705	1,128	1,290	2,156	3,664	5,973	6,694	9,134
40%	7,299	7,179	4,819	2,369	988	800	1,014	1,758	2,733	4,934	6,375	8,755
50%	6,826	5,109	3,617	1,868	732	661	590	1,354	2,532	4,193	5,985	8,533
60%	2,857	3,080	3,264	753	476	287	408	909	2,354	2,642	5,195	7,765
70%	1,858	2,407	3,033	736	238	228	340	506	1,231	2,496	4,679	3,141
80%	1,221	1,396	575	262	210	203	261	421	867	2,296	4,543	1,873
90%	1,185	741	194	223	203	195	223	225	719	2,046	4,328	1,535
Long Term												
Full Simulation Period[a]	5,322	5,181	4,372	2,017	1,344	980	1,062	1,831	2,989	4,476	5,928	6,409
Water Year Types[b]												
Wet (31%)	4,005	2,871	958	504	204	198	260	460	1,096	1,825	3,990	1,422
Above Normal (25%)	8,651	8,763	6,376	500	234	220	271	358	855	2,184	4,671	3,141
Below Normal (6%)	2,857	3,080	4,819	2,369	565	287	424	558	1,237	4,031	6,375	8,885
Dry (13%)	3,554	4,166	3,898	2,550	1,683	826	893	1,595	2,738	4,429	5,721	8,587
Critical (25%)	6,951	6,828	6,591	3,336	2,583	2,170	2,284	3,960	5,909	7,642	8,057	9,467

Alternative 2D (ELT) minus No Action Alternative (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,750	-1,514	-1,043	-113	-1,000	-487	-329	131	-14	1,003	514	-333
20%	-2,205	-2,303	-407	-1,479	-403	-50	-136	-261	-494	473	-138	-413
30%	-2,005	-2,802	-237	-1,071	-120	-256	140	-380	-495	157	-41	143
40%	-2,277	-1,261	31	-958	-682	106	-47	-378	-776	-370	282	-48
50%	-2,606	-1,940	-797	-491	-366	87	21	-71	-734	-534	682	461
60%	-813	-648	-922	-1,023	68	18	46	-55	-38	-605	111	761
70%	-453	-370	-419	58	32	29	52	-1	-680	-512	-368	-184
80%	-144	-260	-487	13	16	9	13	24	-582	-91	-191	-145
90%	-142	-117	0	17	13	5	20	2	-326	-267	363	-46
Long Term												
Full Simulation Period[a]	-1,301	-1,171	-457	-604	-333	-86	-41	-103	-429	-76	123	-33
Water Year Types[b]												
Wet (31%)	-1,303	-1,433	-270	-90	14	8	13	15	-298	-2	221	-67
Above Normal (25%)	-1,782	-1,115	29	116	28	23	37	29	-600	-824	-420	-184
Below Normal (6%)	-813	-648	15	-307	-2	18	11	-6	-212	-178	282	-71
Dry (13%)	-816	-501	-630	-987	-254	-2	57	-269	-723	-440	307	600
Critical (25%)	-1,592	-1,622	-757	-1,056	-883	-292	-203	-136	-274	475	82	-444

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-74-6. Sacramento River at Collinsville, Monthly EC

No Action Alternative (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	11,328	11,500	9,290	4,897	4,382	2,959	2,668	4,363	6,398	7,418	8,038	9,963
20%	10,431	10,547	8,279	4,663	3,144	1,696	2,145	3,338	4,733	6,031	7,977	9,803
30%	9,811	10,459	6,356	3,736	1,824	1,384	1,150	2,535	4,159	5,816	6,736	8,992
40%	9,576	8,439	4,789	3,328	1,670	693	1,061	2,136	3,509	5,304	6,094	8,803
50%	9,432	7,050	4,414	2,359	1,098	574	569	1,425	3,266	4,727	5,303	8,072
60%	3,669	3,728	4,186	1,776	408	269	362	964	2,392	3,246	5,084	7,004
70%	2,312	2,778	3,452	678	206	199	288	507	1,911	3,008	5,047	3,325
80%	1,366	1,656	1,062	249	194	194	249	397	1,449	2,387	4,734	2,018
90%	1,327	859	194	206	190	190	202	223	1,044	2,313	3,965	1,581
Long Term												
Full Simulation Period[a]	6,623	6,351	4,829	2,620	1,676	1,065	1,103	1,934	3,418	4,553	5,805	6,442
Water Year Types[b]												
Wet (31%)	5,308	4,304	1,228	595	190	190	246	445	1,394	1,827	3,769	1,489
Above Normal (25%)	10,433	9,878	6,348	384	206	197	234	329	1,456	3,008	5,091	3,325
Below Normal (6%)	3,669	3,728	4,805	2,676	566	269	413	564	1,449	4,209	6,094	8,956
Dry (13%)	4,370	4,667	4,528	3,536	1,937	829	836	1,863	3,461	4,869	5,414	7,988
Critical (25%)	8,543	8,450	7,347	4,392	3,466	2,462	2,487	4,096	6,183	7,167	7,975	9,912

Alternative 4A (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	10,317	10,665	8,667	5,095	3,802	2,728	2,565	4,332	6,388	8,755	8,972	10,272
20%	8,426	8,407	8,357	3,246	3,049	1,731	2,209	3,374	4,614	7,535	8,477	9,979
30%	8,052	7,903	6,615	2,626	1,599	1,218	1,348	2,393	3,994	6,541	7,511	9,677
40%	7,872	7,622	5,253	2,577	1,055	855	1,069	2,113	3,406	5,688	6,771	9,367
50%	7,284	5,445	3,875	1,941	763	728	604	1,477	3,061	4,960	6,618	9,289
60%	3,192	3,467	3,496	877	500	297	374	945	2,071	4,472	5,885	8,930
70%	2,051	2,641	3,214	720	223	222	290	506	1,260	2,901	5,438	3,401
80%	1,349	1,584	691	256	205	198	250	399	921	2,679	5,053	2,126
90%	1,317	862	192	216	198	195	218	219	778	2,336	5,035	1,681
Long Term												
Full Simulation Period[a]	5,647	5,478	4,661	2,121	1,436	1,062	1,131	1,919	3,192	5,047	6,540	6,907
Water Year Types[b]												
Wet (31%)	4,337	3,105	951	497	198	196	249	440	1,010	2,106	4,463	1,580
Above Normal (25%)	8,935	8,942	6,587	450	223	215	250	327	917	2,524	5,088	3,401
Below Normal (6%)	3,192	3,467	5,309	2,577	508	297	426	563	1,388	4,472	6,771	9,367
Dry (13%)	3,877	4,515	4,173	2,793	1,846	902	951	1,839	3,253	5,447	6,636	9,413
Critical (25%)	7,288	7,164	7,120	3,460	2,770	2,375	2,472	4,074	6,159	8,204	8,661	10,073

Alternative 4A (ELT) minus No Action Alternative (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,010	-835	-623	198	-580	-231	-103	-31	-10	1,338	934	309
20%	-2,005	-2,140	78	-1,417	-95	34	64	36	-119	1,504	499	176
30%	-1,758	-2,556	259	-1,110	-225	-166	198	-143	-165	725	775	685
40%	-1,703	-817	464	-750	-614	162	8	-23	-103	384	677	564
50%	-2,148	-1,605	-539	-418	-335	154	35	52	-205	233	1,315	1,217
60%	-477	-261	-690	-899	92	28	12	-19	-321	1,226	801	1,926
70%	-261	-136	-239	42	17	23	2	-1	-651	-107	390	76
80%	-17	-72	-371	7	11	4	1	2	-528	291	319	108
90%	-10	3	-2	9	8	5	16	-3	-266	24	1,070	99
Long Term												
Full Simulation Period[a]	-975	-873	-167	-499	-240	-3	28	-15	-227	494	735	465
Water Year Types[b]												
Wet (31%)	-971	-1,199	-277	-97	8	6	3	-5	-385	279	694	91
Above Normal (25%)	-1,497	-936	239	66	17	18	16	-2	-539	-483	-2	76
Below Normal (6%)	-477	-261	504	-99	-59	28	14	-1	-61	263	677	411
Dry (13%)	-494	-152	-355	-743	-91	73	115	-24	-208	577	1,222	1,425
Critical (25%)	-1,255	-1,287	-227	-932	-696	-87	-15	-22	-24	1,036	685	162

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-74-7. Sacramento River at Collinsville, Monthly EC

No Action Alternative (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	11,328	11,500	9,290	4,897	4,382	2,959	2,668	4,363	6,398	7,418	8,038	9,963
20%	10,431	10,547	8,279	4,663	3,144	1,696	2,145	3,338	4,733	6,031	7,977	9,803
30%	9,811	10,459	6,356	3,736	1,824	1,384	1,150	2,535	4,159	5,816	6,736	8,992
40%	9,576	8,439	4,789	3,328	1,670	693	1,061	2,136	3,509	5,304	6,094	8,803
50%	9,432	7,050	4,414	2,359	1,098	574	569	1,425	3,266	4,727	5,303	8,072
60%	3,669	3,728	4,186	1,776	408	269	362	964	2,392	3,246	5,084	7,004
70%	2,312	2,778	3,452	678	206	199	288	507	1,911	3,008	5,047	3,325
80%	1,366	1,656	1,062	249	194	194	249	397	1,449	2,387	4,734	2,018
90%	1,327	859	194	206	190	190	202	223	1,044	2,313	3,965	1,581
Long Term												
Full Simulation Period[a]	6,623	6,351	4,829	2,620	1,676	1,065	1,103	1,934	3,418	4,553	5,805	6,442
Water Year Types[b]												
Wet (31%)	5,308	4,304	1,228	595	190	190	246	445	1,394	1,827	3,769	1,489
Above Normal (25%)	10,433	9,878	6,348	384	206	197	234	329	1,456	3,008	5,091	3,325
Below Normal (6%)	3,669	3,728	4,805	2,676	566	269	413	564	1,449	4,209	6,094	8,956
Dry (13%)	4,370	4,667	4,528	3,536	1,937	829	836	1,863	3,461	4,869	5,414	7,988
Critical (25%)	8,543	8,450	7,347	4,392	3,466	2,462	2,487	4,096	6,183	7,167	7,975	9,912

Alternative 5A (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	11,088	11,337	9,057	5,050	4,118	2,766	2,463	4,205	6,135	8,408	8,441	9,657
20%	10,372	10,258	8,126	3,931	2,621	1,626	1,995	3,113	4,362	6,396	7,816	9,149
30%	10,089	10,025	6,516	3,276	1,826	1,385	1,274	2,292	3,704	5,271	6,324	9,110
40%	9,727	9,728	4,630	2,646	1,661	709	1,010	1,885	3,122	4,996	5,995	8,579
50%	9,573	8,142	4,391	2,301	1,035	641	561	1,430	2,972	4,329	5,350	8,063
60%	3,364	3,186	3,860	2,060	470	277	391	926	2,356	3,093	4,849	7,429
70%	2,098	2,576	3,169	703	209	203	316	521	1,858	2,859	4,787	3,063
80%	1,181	1,489	1,179	248	199	194	263	464	1,407	2,539	4,468	1,822
90%	1,145	753	200	210	191	191	207	230	1,095	2,368	3,929	1,502
Long Term												
Full Simulation Period[a]	6,535	6,383	4,717	2,507	1,613	1,041	1,068	1,839	3,211	4,530	5,720	6,306
Water Year Types[b]												
Wet (31%)	5,319	4,397	1,302	669	192	192	255	480	1,368	1,891	3,723	1,384
Above Normal (25%)	10,729	10,637	6,516	413	209	200	249	370	1,565	2,875	4,821	3,063
Below Normal (6%)	3,364	3,124	4,592	2,538	550	277	411	577	1,255	3,797	5,995	9,149
Dry (13%)	4,087	4,507	4,377	2,984	1,645	868	905	1,700	3,075	4,519	5,284	8,168
Critical (25%)	8,424	8,423	7,026	4,428	3,499	2,347	2,309	3,877	5,844	7,458	7,970	9,483

Alternative 5A (ELT) minus No Action Alternative (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-240	-163	-232	**153**	-264	-193	-205	-159	-263	**991**	**403**	-306
20%	-59	-289	-154	-732	-523	-70	-150	-225	-371	**365**	-161	-654
30%	**279**	-434	**161**	-460	**2**	**1**	**124**	-244	-454	-545	-412	**118**
40%	**151**	**1,289**	-159	-682	-9	**16**	-51	-251	-387	-308	-98	-224
50%	**141**	**1,092**	-23	-58	-63	**67**	-8	**5**	-294	-398	**47**	-9
60%	-306	-543	-326	**284**	**62**	**8**	**28**	-37	-35	-153	-235	**425**
70%	-214	-202	-284	**26**	**3**	**4**	**27**	**13**	-53	-148	-261	-262
80%	-184	-167	**116**	-1	**5**	**0**	**14**	**66**	-42	**152**	-266	-196
90%	-182	-106	**6**	**4**	**1**	**1**	**5**	**7**	**51**	**56**	-36	-79
Long Term												
Full Simulation Period[a]	-87	**32**	-112	-113	-63	-25	-34	-95	-208	-23	-86	-136
Water Year Types[b]												
Wet (31%)	**11**	**93**	**74**	**75**	**2**	**2**	**9**	**35**	-27	**65**	-46	-104
Above Normal (25%)	**297**	**759**	**169**	**30**	**3**	**3**	**15**	**40**	**109**	-132	-270	-262
Below Normal (6%)	-306	-605	-213	-138	-16	**8**	-2	**13**	-194	-412	-98	**193**
Dry (13%)	-283	-160	-151	-552	-292	**39**	**69**	-164	-386	-350	-130	**181**
Critical (25%)	-119	-27	-321	**36**	**33**	-115	-178	-219	-339	**291**	-5	-429

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

C.75. Old River at Rock Slough Salinity

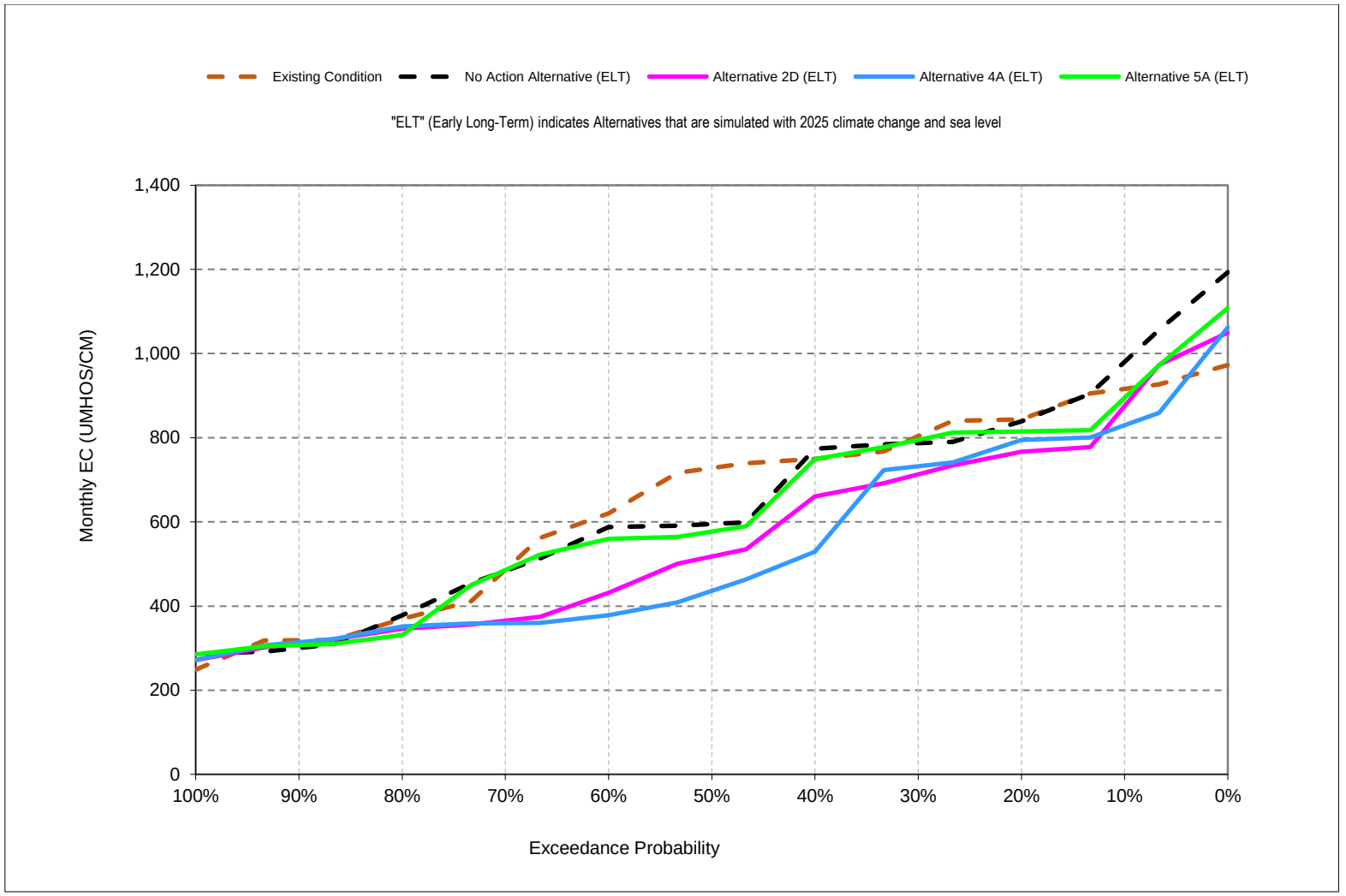


Figure C-75-1. Old River at Rock Slough, January EC

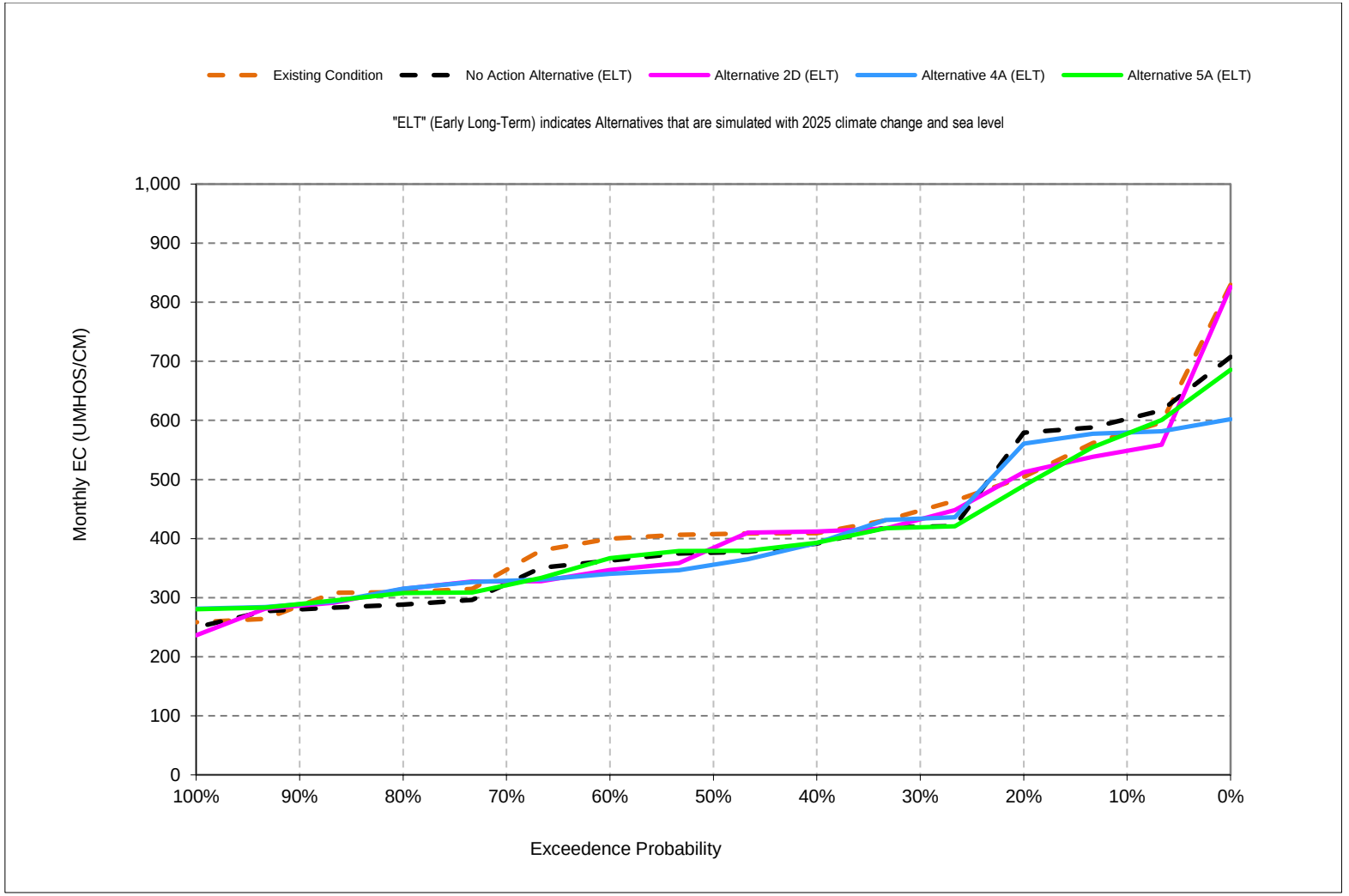


Figure C-75-2. Old River at Rock Slough, February EC

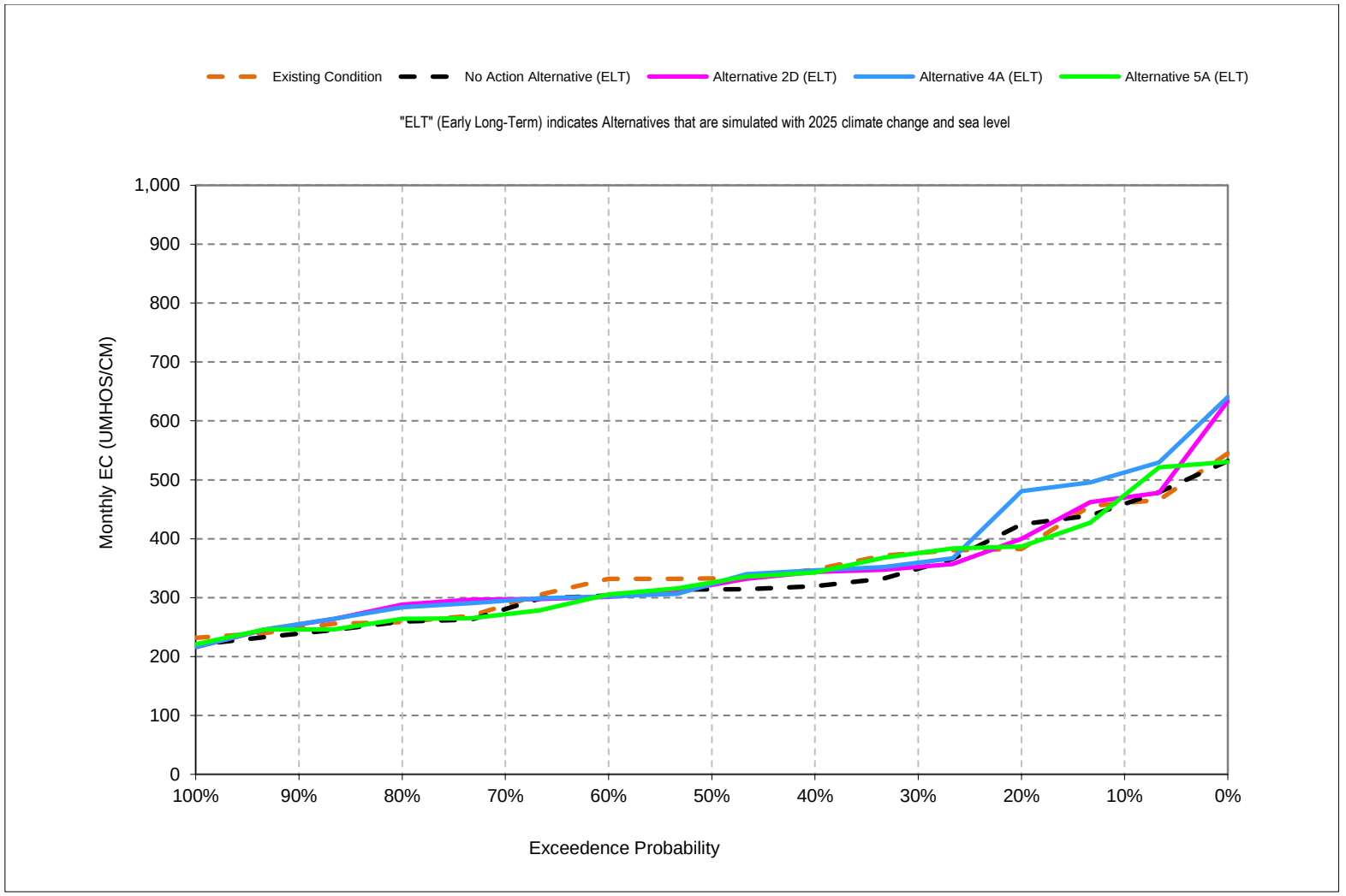


Figure C-75-3. Old River at Rock Slough, March EC

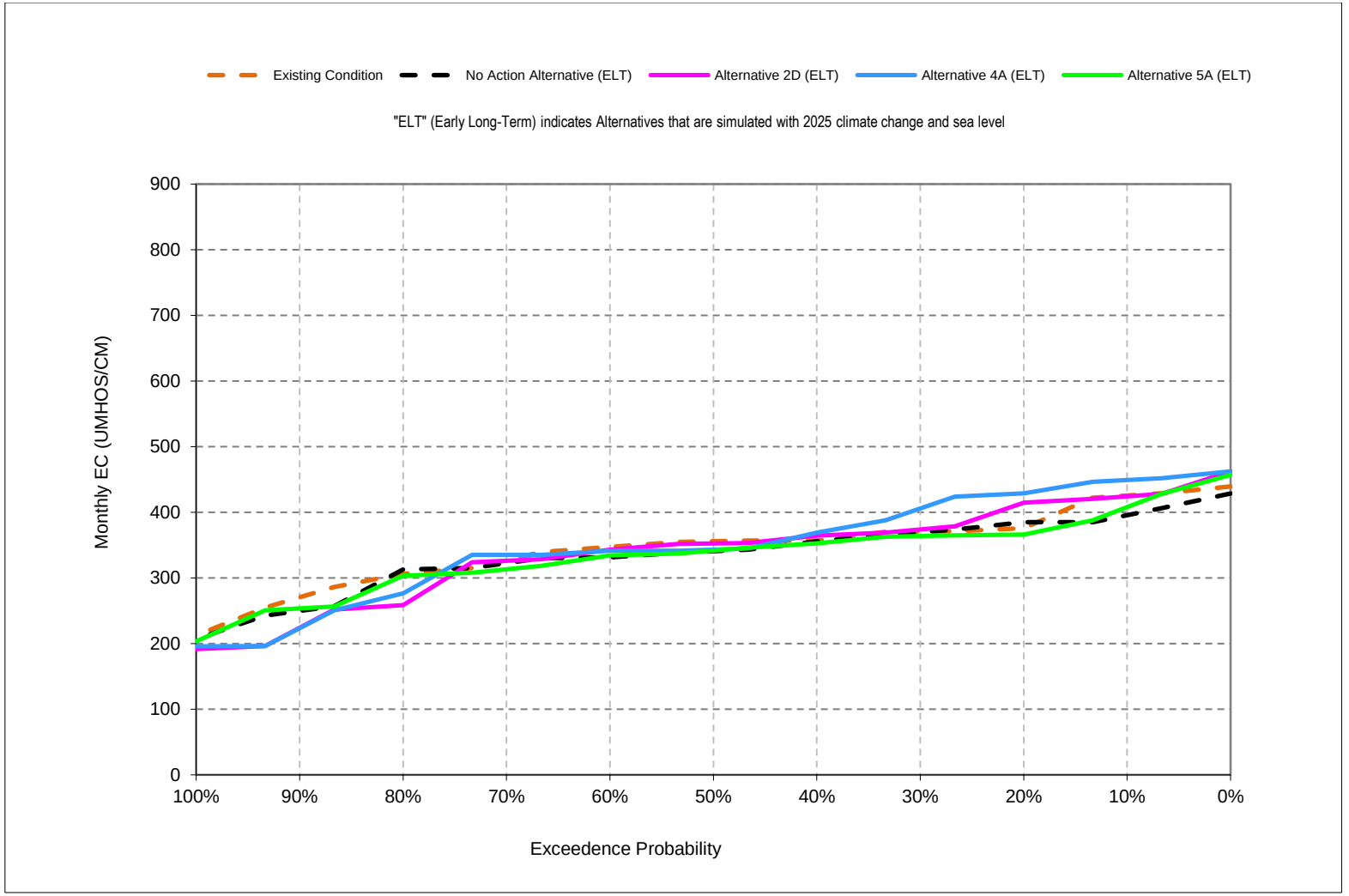


Figure C-75-4. Old River at Rock Slough, April EC

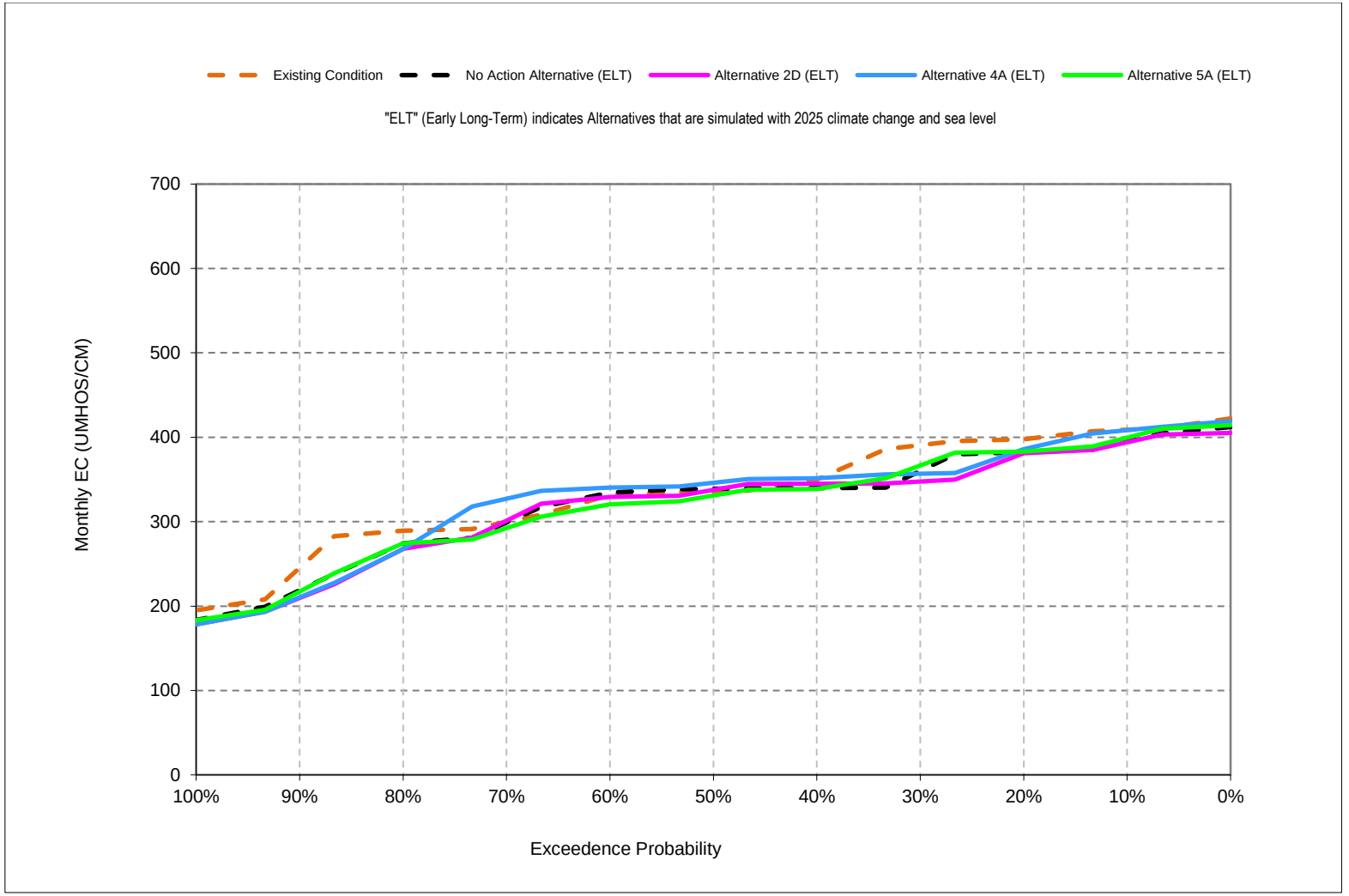


Figure C-75-5. Old River at Rock Slough, May EC

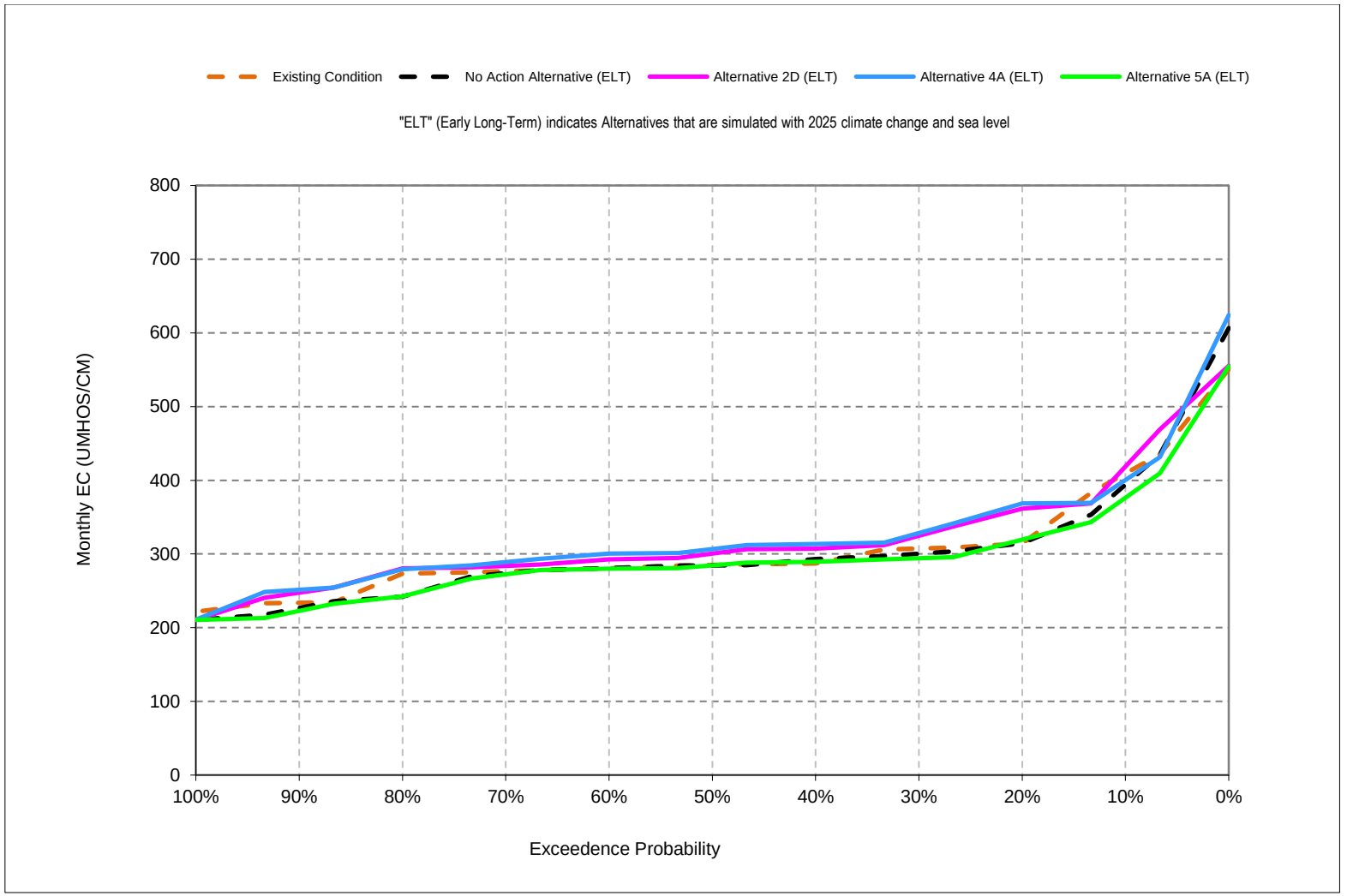


Figure C-75-6. Old River at Rock Slough, June EC

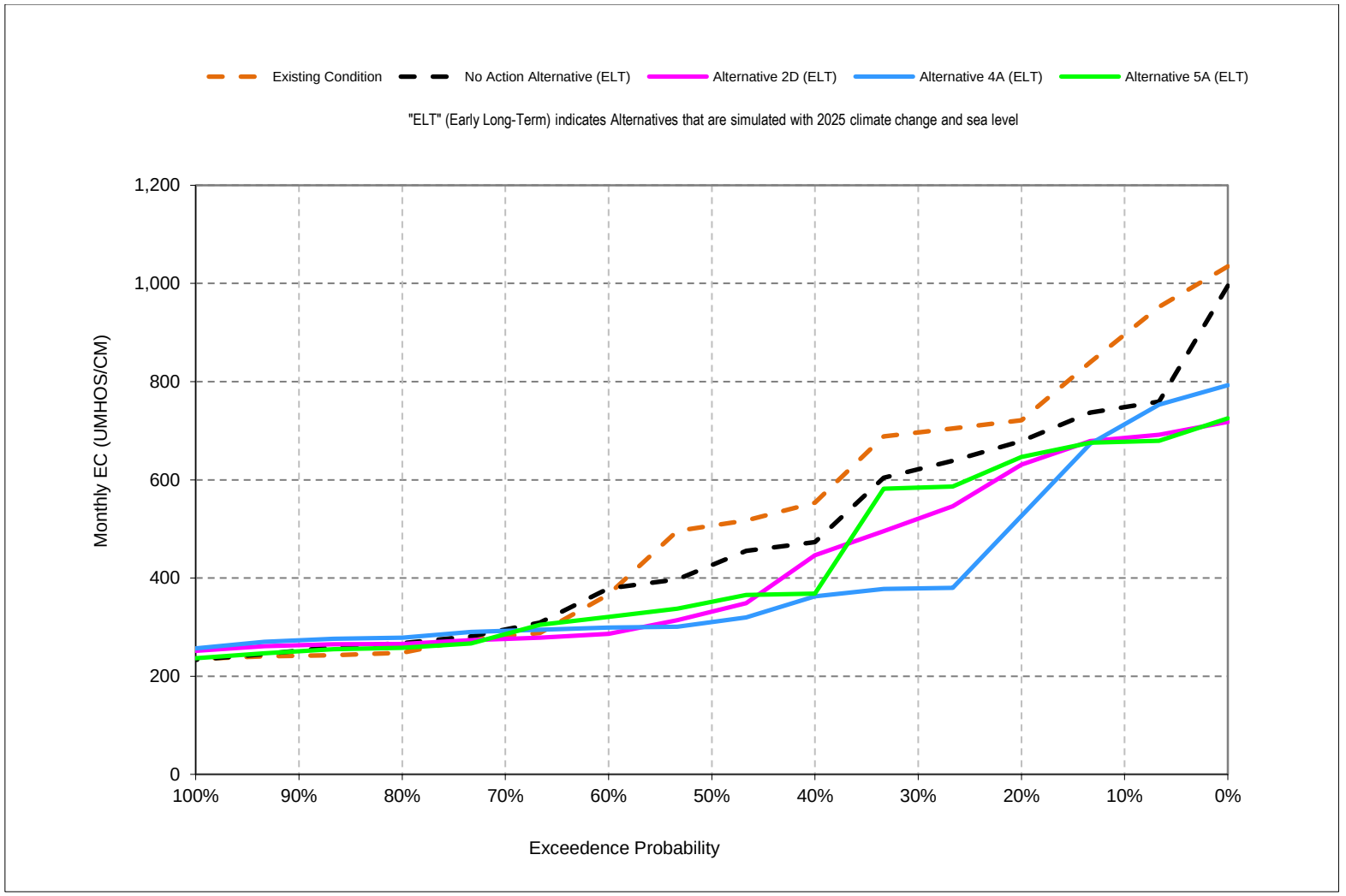


Figure C-75-7. Old River at Rock Slough, July EC

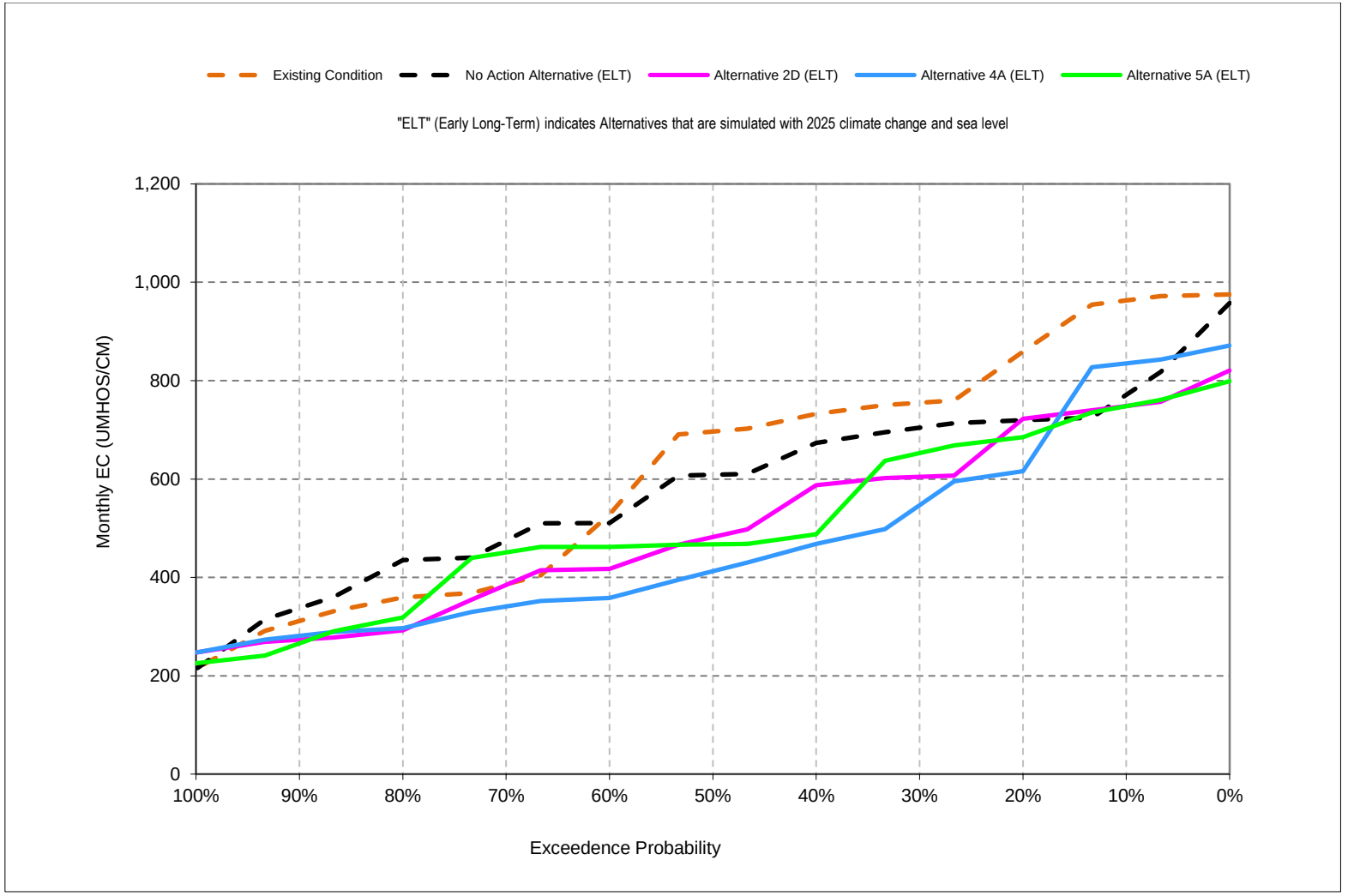


Figure C-75-8. Old River at Rock Slough, August EC

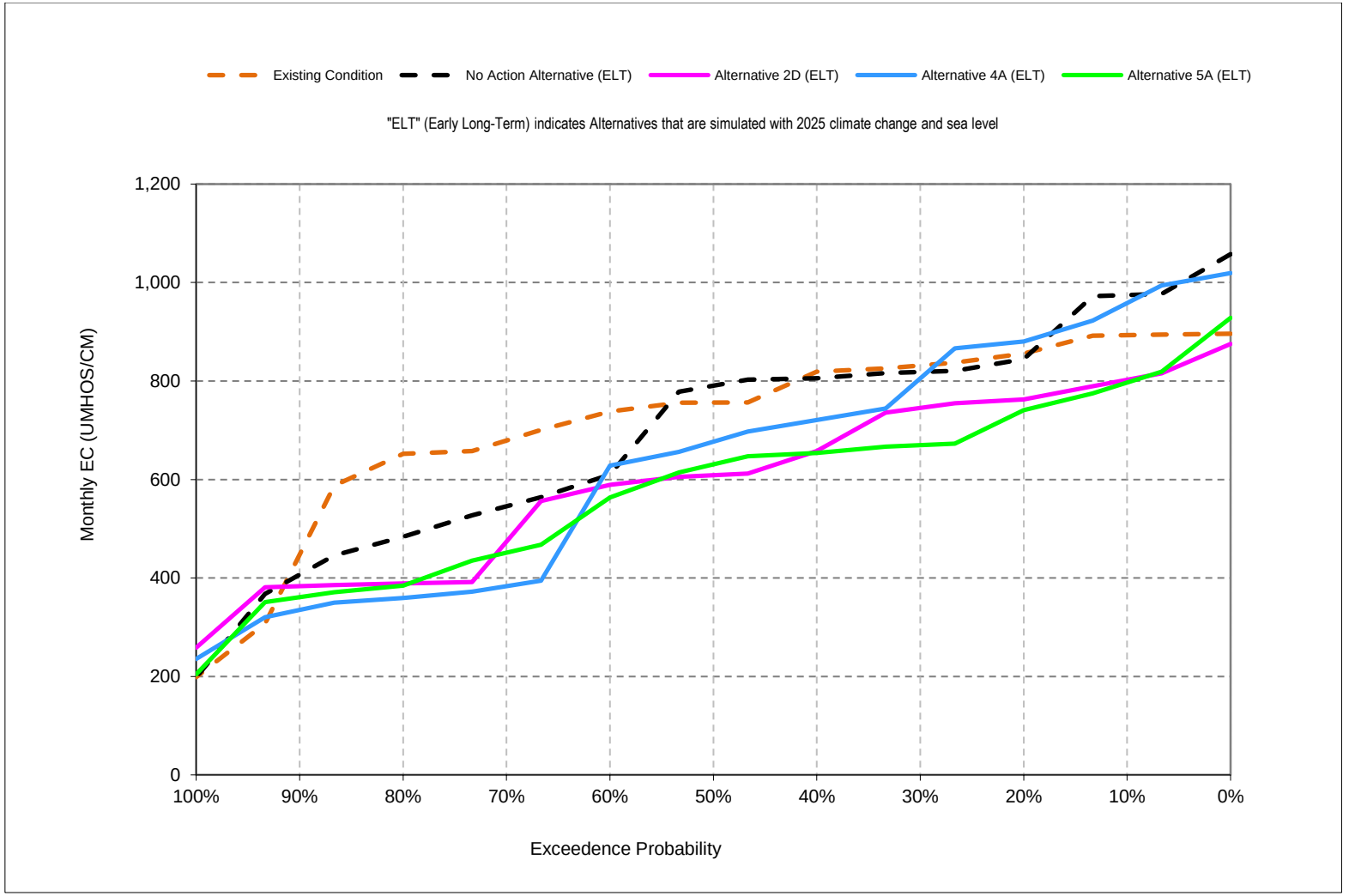


Figure C-75-9. Old River at Rock Slough, September EC

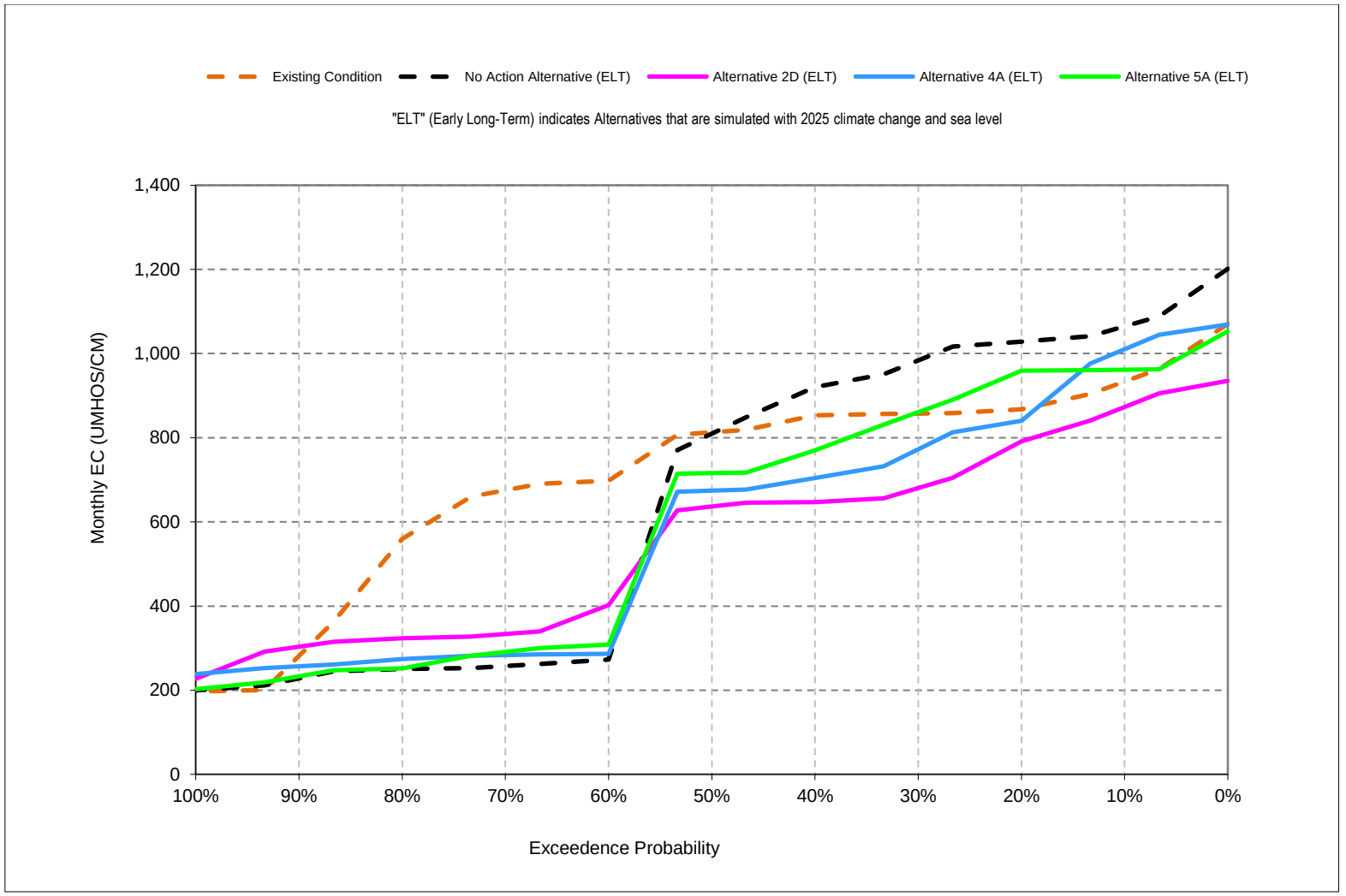


Figure C-75-10. Old River at Rock Slough, October EC

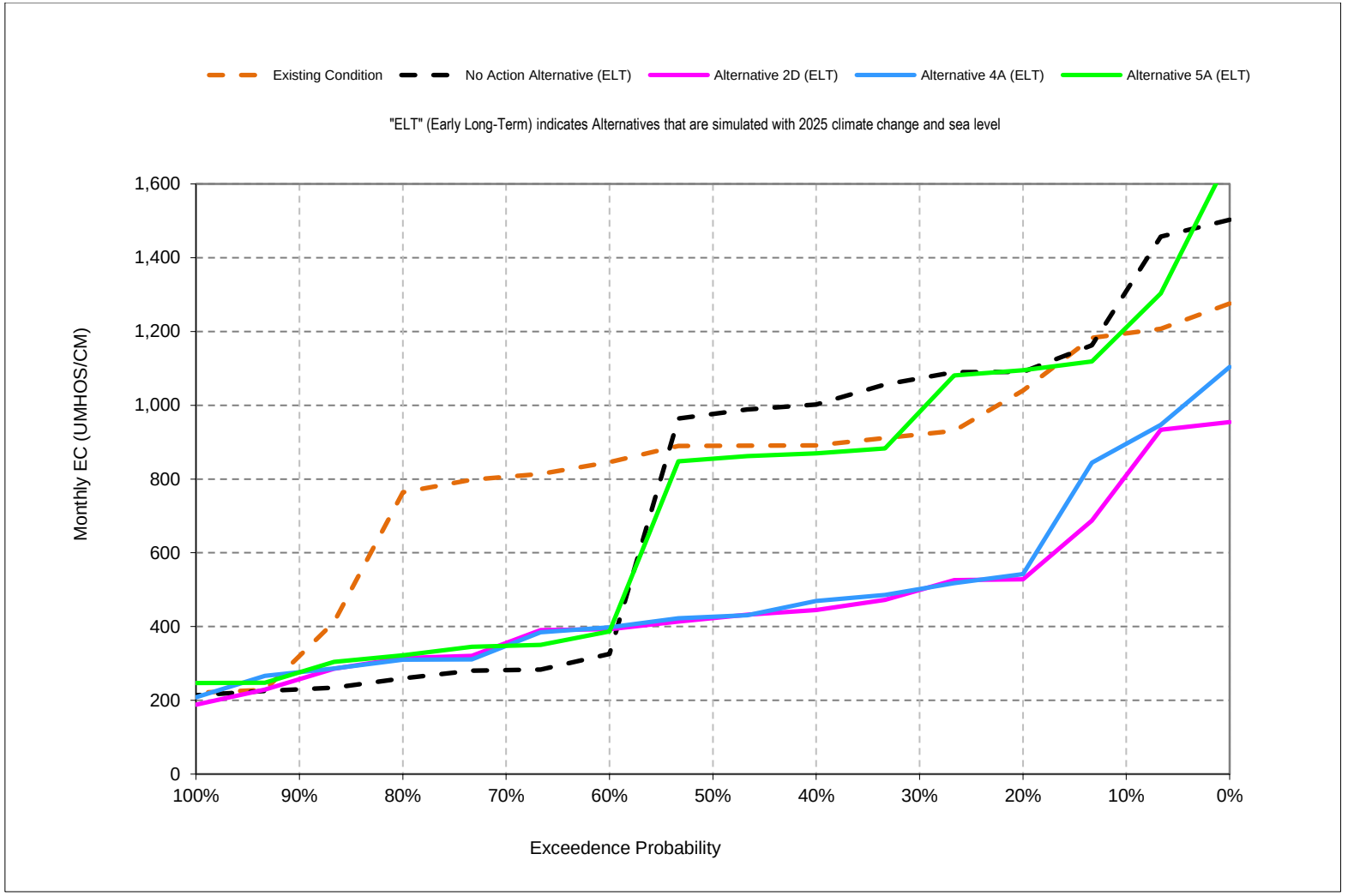


Figure C-75-11. Old River at Rock Slough, November EC

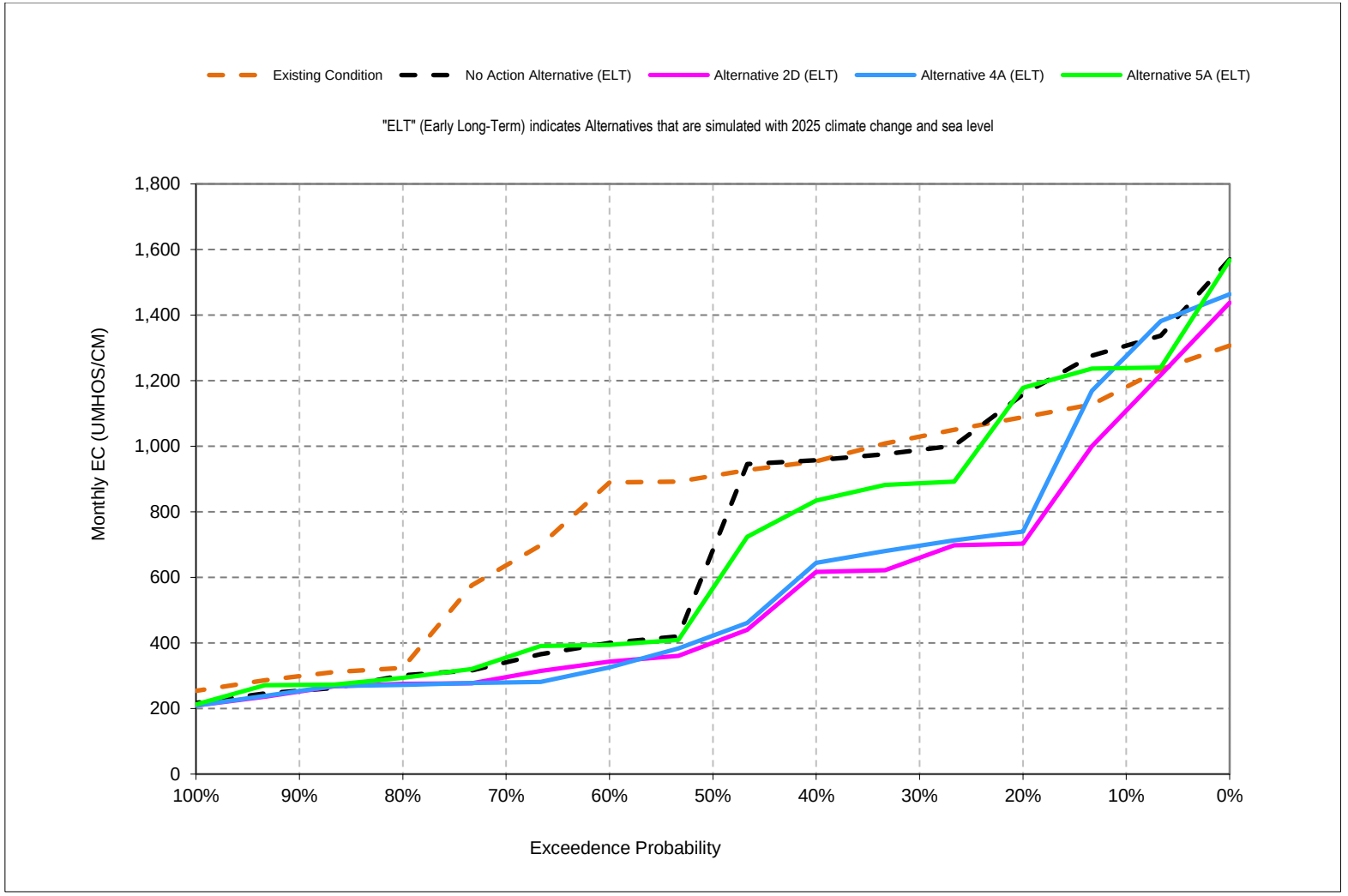


Figure C-75-12. Old River at Rock Slough, December EC

Table C-75-1. Old River at Rock Slough, Monthly EC

Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	933	1,195	1,181	916	579	461	426	409	409	896	963	893
20%	867	1,040	1,088	843	505	382	376	398	314	721	859	856
30%	857	921	1,030	804	448	376	371	391	307	697	755	831
40%	853	891	954	750	409	348	357	350	287	554	732	819
50%	813	890	910	728	408	333	356	336	285	507	697	756
60%	698	846	890	620	400	332	347	332	280	367	528	738
70%	675	806	637	486	347	287	327	300	277	282	386	679
80%	560	764	324	370	309	259	306	289	273	248	359	652
90%	282	320	299	319	286	248	271	245	234	242	312	448
Long Term												
Full Simulation Period[a]	710	831	808	644	428	344	346	334	310	525	618	711
Water Year Types[b]												
Wet (31%)	527	691	475	407	323	301	278	276	254	264	319	466
Above Normal (25%)	915	1,036	1,181	639	405	326	356	345	293	238	348	620
Below Normal (6%)	691	891	928	927	400	305	370	395	273	367	528	856
Dry (13%)	684	935	933	704	408	325	379	360	272	572	719	828
Critical (25%)	801	766	802	733	542	410	366	344	398	844	904	821

No Action Alternative (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,065	1,310	1,307	980	602	459	396	395	394	748	771	975
20%	1,029	1,090	1,158	839	579	425	385	383	315	679	720	845
30%	984	1,073	989	787	420	349	370	360	300	621	704	818
40%	921	1,002	957	774	391	320	355	340	293	473	674	806
50%	810	976	683	595	376	314	341	339	285	426	609	790
60%	273	326	401	587	362	303	332	335	281	379	511	610
70%	257	282	341	483	324	281	323	299	274	295	475	546
80%	251	259	302	379	288	259	313	275	242	267	435	483
90%	228	230	255	301	280	239	250	219	227	252	338	407
Long Term												
Full Simulation Period[a]	660	759	735	647	412	334	336	322	307	482	582	692
Water Year Types[b]												
Wet (31%)	545	752	472	392	298	272	259	261	244	260	332	394
Above Normal (25%)	1,035	1,039	1,364	648	376	299	327	288	264	277	473	505
Below Normal (6%)	262	280	401	790	391	299	355	380	281	379	610	972
Dry (13%)	447	582	584	713	416	319	367	354	278	538	638	803
Critical (25%)	852	889	880	769	517	417	373	347	403	717	774	860

No Action Alternative (ELT) minus Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	131	115	126	64	23	-2	-30	-14	-15	-148	-192	81
20%	161	51	70	-4	75	42	9	-15	1	-42	-140	-11
30%	126	152	-41	-17	-27	-27	-1	-30	-7	-75	-51	-13
40%	68	111	3	24	-18	-28	-1	-10	6	-81	-59	-13
50%	-3	86	-227	-133	-31	-19	-15	3	0	-80	-88	34
60%	-425	-520	-489	-33	-38	-28	-16	3	1	12	-17	-128
70%	-418	-524	-296	-3	-24	-7	-5	-1	-3	14	89	-133
80%	-309	-505	-23	9	-21	1	7	-15	-31	19	76	-169
90%	-54	-91	-44	-18	-6	-9	-21	-27	-7	10	26	-41
Long Term												
Full Simulation Period[a]	-50	-73	-74	3	-16	-10	-10	-12	-3	-43	-37	-19
Water Year Types[b]												
Wet (31%)	18	61	-3	-15	-25	-29	-18	-15	-10	-3	14	-72
Above Normal (25%)	120	3	183	9	-29	-26	-29	-56	-30	39	125	-114
Below Normal (6%)	-428	-611	-527	-137	-9	-7	-15	-16	7	12	82	117
Dry (13%)	-237	-354	-348	9	7	-6	-12	-6	6	-34	-81	-25
Critical (25%)	52	122	78	36	-25	7	7	4	5	-127	-130	40

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

Table C-75-2. Old River at Rock Slough, Monthly EC

Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	933	1,195	1,181	916	579	461	426	409	409	896	963	893
20%	867	1,040	1,088	843	505	382	376	398	314	721	859	856
30%	857	921	1,030	804	448	376	371	391	307	697	755	831
40%	853	891	954	750	409	348	357	350	287	554	732	819
50%	813	890	910	728	408	333	356	336	285	507	697	756
60%	698	846	890	620	400	332	347	332	280	367	528	738
70%	675	806	637	486	347	287	327	300	277	282	386	679
80%	560	764	324	370	309	259	306	289	273	248	359	652
90%	282	320	299	319	286	248	271	245	234	242	312	448
Long Term												
Full Simulation Period[a]	710	831	808	644	428	344	346	334	310	525	618	711
Water Year Types[b]												
Wet (31%)	527	691	475	407	323	301	278	276	254	264	319	466
Above Normal (25%)	915	1,036	1,181	639	405	326	356	345	293	238	348	620
Below Normal (6%)	691	891	928	927	400	305	370	395	273	367	528	856
Dry (13%)	684	935	933	704	408	325	379	360	272	572	719	828
Critical (25%)	801	766	802	733	542	410	366	344	398	844	904	821

Alternative 2D (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	873	811	1,109	875	549	470	424	394	419	685	748	803
20%	791	528	703	767	512	400	415	381	362	631	722	763
30%	681	500	660	713	433	352	374	348	325	521	604	745
40%	647	445	617	661	412	344	364	345	307	446	588	657
50%	636	423	401	518	384	322	353	338	300	332	482	609
60%	403	393	343	432	347	302	343	329	293	286	417	589
70%	334	356	296	365	328	297	326	301	284	276	385	474
80%	324	315	275	346	315	288	259	268	281	266	292	389
90%	303	257	252	312	286	255	224	210	248	263	274	383
Long Term												
Full Simulation Period[a]	561	470	564	568	413	348	340	318	322	422	505	597
Water Year Types[b]												
Wet (31%)	455	319	315	429	360	280	248	246	265	267	302	355
Above Normal (25%)	781	674	1,070	792	570	425	312	278	331	274	379	471
Below Normal (6%)	324	321	361	692	417	347	352	350	286	265	355	605
Dry (13%)	456	481	511	471	388	348	401	351	281	487	587	706
Critical (25%)	690	529	643	644	411	373	373	359	406	585	681	753

Alternative 2D (ELT) minus Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-60	-384	-72	-41	-31	9	-1	-15	9	-211	-215	-91
20%	-76	-511	-385	-76	8	17	39	-16	47	-91	-137	-93
30%	-177	-421	-369	-91	-15	-24	3	-43	17	-176	-151	-86
40%	-206	-446	-337	-89	3	-4	8	-5	20	-108	-145	-161
50%	-176	-467	-509	-210	-23	-11	-3	2	15	-175	-215	-147
60%	-295	-453	-547	-189	-53	-30	-4	-2	12	-81	-111	-149
70%	-342	-450	-341	-121	-20	10	-1	1	7	-6	-1	-205
80%	-236	-449	-49	-23	5	30	-48	-22	7	18	-67	-263
90%	21	-63	-47	-7	0	7	-47	-36	14	21	-38	-64
Long Term												
Full Simulation Period[a]	-149	-362	-244	-76	-15	4	-6	-16	13	-103	-114	-113
Water Year Types[b]												
Wet (31%)	-72	-372	-159	22	37	-20	-29	-30	11	4	-16	-111
Above Normal (25%)	-134	-363	-111	153	165	99	-44	-67	37	36	32	-149
Below Normal (6%)	-367	-571	-567	-235	17	42	-18	-45	12	-102	-173	-250
Dry (13%)	-228	-454	-422	-233	-20	23	22	-10	9	-85	-132	-121
Critical (25%)	-110	-237	-159	-89	-131	-37	7	15	8	-259	-223	-67

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-75-3. Old River at Rock Slough, Monthly EC

Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	933	1,195	1,181	916	579	461	426	409	409	896	963	893
20%	867	1,040	1,088	843	505	382	376	398	314	721	859	856
30%	857	921	1,030	804	448	376	371	391	307	697	755	831
40%	853	891	954	750	409	348	357	350	287	554	732	819
50%	813	890	910	728	408	333	356	336	285	507	697	756
60%	698	846	890	620	400	332	347	332	280	367	528	738
70%	675	806	637	486	347	287	327	300	277	282	386	679
80%	560	764	324	370	309	259	306	289	273	248	359	652
90%	282	320	299	319	286	248	271	245	234	242	312	448
Long Term												
Full Simulation Period[a]	710	831	808	644	428	344	346	334	310	525	618	711
Water Year Types[b]												
Wet (31%)	527	691	475	407	323	301	278	276	254	264	319	466
Above Normal (25%)	915	1,036	1,181	639	405	326	356	345	293	238	348	620
Below Normal (6%)	691	891	928	927	400	305	370	395	273	367	528	856
Dry (13%)	684	935	933	704	408	325	379	360	272	572	719	828
Critical (25%)	801	766	802	733	542	410	366	344	398	844	904	821

Alternative 4A (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,010	896	1,275	830	579	513	449	408	400	713	835	958
20%	840	543	740	795	561	481	429	386	369	527	616	880
30%	772	502	696	732	434	360	406	357	328	379	547	805
40%	704	470	644	529	392	346	369	351	313	363	468	721
50%	674	427	422	436	356	323	343	346	307	310	413	677
60%	287	398	326	379	340	302	341	340	301	299	358	628
70%	284	348	280	359	328	295	335	327	289	292	341	383
80%	274	310	272	352	315	283	277	268	279	279	297	360
90%	257	276	254	314	289	255	224	210	251	273	281	335
Long Term												
Full Simulation Period[a]	588	496	594	546	404	360	349	328	328	403	481	635
Water Year Types[b]												
Wet (31%)	467	348	304	326	334	275	245	247	264	279	301	325
Above Normal (25%)	861	685	1,102	632	448	428	323	285	331	286	293	366
Below Normal (6%)	261	310	383	741	436	367	341	356	285	279	395	656
Dry (13%)	455	522	557	498	400	354	415	368	291	341	439	742
Critical (25%)	748	555	696	686	439	404	393	371	416	625	751	901

Alternative 4A (ELT) minus Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	77	-299	95	-86	0	52	24	-1	-9	-183	-128	65
20%	-27	-497	-348	-49	56	98	53	-12	54	-195	-243	25
30%	-85	-419	-333	-72	-14	-16	35	-34	21	-318	-208	-26
40%	-149	-422	-310	-221	-17	-2	12	2	26	-191	-264	-98
50%	-139	-463	-488	-292	-52	-10	-13	10	22	-197	-284	-79
60%	-411	-448	-564	-242	-60	-30	-6	9	20	-67	-170	-110
70%	-392	-458	-357	-127	-19	7	8	27	12	11	-45	-296
80%	-285	-454	-52	-18	6	25	-30	-22	6	31	-63	-292
90%	-25	-44	-45	-5	2	7	-47	-35	18	32	-30	-113
Long Term												
Full Simulation Period[a]	-122	-336	-214	-99	-24	16	3	-7	19	-122	-138	-76
Water Year Types[b]												
Wet (31%)	-60	-343	-170	-81	12	-26	-33	-28	10	16	-18	-141
Above Normal (25%)	-55	-351	-79	-7	43	102	-33	-60	38	48	-55	-254
Below Normal (6%)	-429	-581	-544	-186	36	62	-29	-39	11	-88	-133	-199
Dry (13%)	-229	-414	-376	-206	-9	29	36	8	19	-231	-280	-85
Critical (25%)	-53	-212	-106	-46	-103	-6	26	27	18	-219	-154	80

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-75-4. Old River at Rock Slough, Monthly EC

Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	933	1,195	1,181	916	579	461	426	409	409	896	963	893
20%	867	1,040	1,088	843	505	382	376	398	314	721	859	856
30%	857	921	1,030	804	448	376	371	391	307	697	755	831
40%	853	891	954	750	409	348	357	350	287	554	732	819
50%	813	890	910	728	408	333	356	336	285	507	697	756
60%	698	846	890	620	400	332	347	332	280	367	528	738
70%	675	806	637	486	347	287	327	300	277	282	386	679
80%	560	764	324	370	309	259	306	289	273	248	359	652
90%	282	320	299	319	286	248	271	245	234	242	312	448
Long Term												
Full Simulation Period[a]	710	831	808	644	428	344	346	334	310	525	618	711
Water Year Types[b]												
Wet (31%)	527	691	475	407	323	301	278	276	254	264	319	466
Above Normal (25%)	915	1,036	1,181	639	405	326	356	345	293	238	348	620
Below Normal (6%)	691	891	928	927	400	305	370	395	273	367	528	856
Dry (13%)	684	935	933	704	408	325	379	360	272	572	719	828
Critical (25%)	801	766	802	733	542	410	366	344	398	844	904	821

Alternative 5A (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	962	1,211	1,238	895	578	474	408	400	377	677	748	797
20%	959	1,095	1,178	815	489	387	366	383	319	647	685	741
30%	861	982	887	795	419	376	364	367	294	584	653	670
40%	770	870	835	749	393	343	353	339	289	368	488	654
50%	716	855	567	577	379	326	342	331	285	351	467	631
60%	309	387	394	560	367	306	335	320	280	321	462	564
70%	291	348	356	486	321	272	313	292	272	286	451	451
80%	252	322	294	331	308	264	303	274	242	258	319	385
90%	233	276	273	308	289	246	254	217	223	251	266	361
Long Term												
Full Simulation Period[a]	604	746	695	623	406	340	336	321	300	428	509	581
Water Year Types[b]												
Wet (31%)	477	758	410	379	319	289	264	261	243	254	306	344
Above Normal (25%)	926	1,100	1,402	667	356	324	337	288	266	276	377	419
Below Normal (6%)	252	304	391	778	393	316	363	382	278	321	468	647
Dry (13%)	463	590	557	682	389	310	352	349	274	511	604	676
Critical (25%)	761	809	812	723	511	416	375	346	384	584	657	746

Alternative 5A (ELT) minus Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	**28**	**16**	**58**	-21	-1	**14**	-18	-9	-33	-218	-215	-96
20%	**92**	**56**	**90**	-28	-15	**4**	-10	-15	**5**	-75	-174	-115
30%	**3**	**61**	-143	-9	-29	0	-7	-24	-13	-113	-102	-162
40%	-83	-22	-120	0	-16	-5	-4	-11	**2**	-185	-245	-165
50%	-97	-35	-343	-151	-28	-7	-14	-5	0	-155	-229	-125
60%	-389	-459	-496	-60	-33	-26	-13	-11	0	-46	-66	-175
70%	-384	-458	-281	-1	-26	-16	-14	-7	-4	**4**	**64**	-228
80%	-307	-442	-31	-38	-1	**6**	-3	-15	-31	**10**	-41	-267
90%	-49	-44	-26	-11	**3**	-2	-17	-28	-11	**9**	-45	-86
Long Term												
Full Simulation Period[a]	-106	-85	-113	-21	-22	-4	-10	-14	-10	-97	-109	-130
Water Year Types[b]												
Wet (31%)	-50	**67**	-65	-28	-3	-12	-14	-15	-11	-9	-12	-122
Above Normal (25%)	**11**	**64**	**221**	**28**	-49	-2	-19	-56	-27	**38**	**29**	-200
Below Normal (6%)	-439	-587	-537	-149	-7	**11**	-8	-14	**5**	-46	-60	-208
Dry (13%)	-221	-346	-376	-22	-19	-15	-27	-11	**3**	-61	-115	-152
Critical (25%)	-39	**43**	**10**	-10	-31	**6**	**9**	**2**	-14	-260	-247	-74

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-75-5. Old River at Rock Slough, Monthly EC

No Action Alternative (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,065	1,310	1,307	980	602	459	396	395	394	748	771	975
20%	1,029	1,090	1,158	839	579	425	385	383	315	679	720	845
30%	984	1,073	989	787	420	349	370	360	300	621	704	818
40%	921	1,002	957	774	391	320	355	340	293	473	674	806
50%	810	976	683	595	376	314	341	339	285	426	609	790
60%	273	326	401	587	362	303	332	335	281	379	511	610
70%	257	282	341	483	324	281	323	299	274	295	475	546
80%	251	259	302	379	288	259	313	275	242	267	435	483
90%	228	230	255	301	280	239	250	219	227	252	338	407
Long Term												
Full Simulation Period[a]	660	759	735	647	412	334	336	322	307	482	582	692
Water Year Types[b]												
Wet (31%)	545	752	472	392	298	272	259	261	244	260	332	394
Above Normal (25%)	1,035	1,039	1,364	648	376	299	327	288	264	277	473	505
Below Normal (6%)	262	280	401	790	391	299	355	380	281	379	610	972
Dry (13%)	447	582	584	713	416	319	367	354	278	538	638	803
Critical (25%)	852	889	880	769	517	417	373	347	403	717	774	860

Alternative 2D (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	873	811	1,109	875	549	470	424	394	419	685	748	803
20%	791	528	703	767	512	400	415	381	362	631	722	763
30%	681	500	660	713	433	352	374	348	325	521	604	745
40%	647	445	617	661	412	344	364	345	307	446	588	657
50%	636	423	401	518	384	322	353	338	300	332	482	609
60%	403	393	343	432	347	302	343	329	293	286	417	589
70%	334	356	296	365	328	297	326	301	284	276	385	474
80%	324	315	275	346	315	288	259	268	281	266	292	389
90%	303	257	252	312	286	255	224	210	248	263	274	383
Long Term												
Full Simulation Period[a]	561	470	564	568	413	348	340	318	322	422	505	597
Water Year Types[b]												
Wet (31%)	455	319	315	429	360	280	248	246	265	267	302	355
Above Normal (25%)	781	674	1,070	792	570	425	312	278	331	274	379	471
Below Normal (6%)	324	321	361	692	417	347	352	350	286	265	355	605
Dry (13%)	456	481	511	471	388	348	401	351	281	487	587	706
Critical (25%)	690	529	643	644	411	373	373	359	406	585	681	753

Alternative 2D (ELT) minus No Action Alternative (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-192	-499	-198	-105	-54	**11**	**29**	-1	**25**	-63	-23	-172
20%	-237	-562	-455	-72	-67	-25	**30**	-1	**47**	-48	**2**	-82
30%	-303	-573	-328	-74	**12**	**3**	**4**	-13	**24**	-101	-100	-73
40%	-274	-557	-340	-113	**20**	**24**	**9**	**5**	**14**	-27	-86	-148
50%	-173	-554	-282	-77	**8**	**7**	**12**	-1	**16**	-95	-127	-182
60%	**130**	**67**	-57	-156	-15	-2	**12**	-5	**12**	-93	-93	-21
70%	**76**	**74**	-46	-118	**4**	**16**	**4**	**2**	**10**	-19	-90	-72
80%	**73**	**56**	-26	-32	**26**	**29**	-54	-7	**38**	-2	-143	-95
90%	**75**	**28**	-2	**11**	**6**	**15**	-26	-9	**21**	**11**	-64	-23
Long Term												
Full Simulation Period[a]	-99	-289	-171	-79	**1**	**14**	**4**	-4	**16**	-60	-77	-94
Water Year Types[b]												
Wet (31%)	-90	-433	-156	**37**	**62**	**8**	-11	-14	**21**	**7**	-30	-39
Above Normal (25%)	-254	-366	-294	**144**	**194**	**125**	-15	-11	**67**	-3	-93	-34
Below Normal (6%)	**61**	**40**	-40	-98	**26**	**49**	-3	-30	**5**	-114	-255	-367
Dry (13%)	**9**	-100	-73	-242	-28	**29**	**34**	-3	**3**	-51	-51	-96
Critical (25%)	-162	-359	-237	-125	-105	-44	**0**	**12**	**3**	-133	-93	-107

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-75-6. Old River at Rock Slough, Monthly EC

No Action Alternative (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,065	1,310	1,307	980	602	459	396	395	394	748	771	975
20%	1,029	1,090	1,158	839	579	425	385	383	315	679	720	845
30%	984	1,073	989	787	420	349	370	360	300	621	704	818
40%	921	1,002	957	774	391	320	355	340	293	473	674	806
50%	810	976	683	595	376	314	341	339	285	426	609	790
60%	273	326	401	587	362	303	332	335	281	379	511	610
70%	257	282	341	483	324	281	323	299	274	295	475	546
80%	251	259	302	379	288	259	313	275	242	267	435	483
90%	228	230	255	301	280	239	250	219	227	252	338	407
Long Term												
Full Simulation Period[a]	660	759	735	647	412	334	336	322	307	482	582	692
Water Year Types[b]												
Wet (31%)	545	752	472	392	298	272	259	261	244	260	332	394
Above Normal (25%)	1,035	1,039	1,364	648	376	299	327	288	264	277	473	505
Below Normal (6%)	262	280	401	790	391	299	355	380	281	379	610	972
Dry (13%)	447	582	584	713	416	319	367	354	278	538	638	803
Critical (25%)	852	889	880	769	517	417	373	347	403	717	774	860

Alternative 4A (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,010	896	1,275	830	579	513	449	408	400	713	835	958
20%	840	543	740	795	561	481	429	386	369	527	616	880
30%	772	502	696	732	434	360	406	357	328	379	547	805
40%	704	470	644	529	392	346	369	351	313	363	468	721
50%	674	427	422	436	356	323	343	346	307	310	413	677
60%	287	398	326	379	340	302	341	340	301	299	358	628
70%	284	348	280	359	328	295	335	327	289	292	341	383
80%	274	310	272	352	315	283	277	268	279	279	297	360
90%	257	276	254	314	289	255	224	210	251	273	281	335
Long Term												
Full Simulation Period[a]	588	496	594	546	404	360	349	328	328	403	481	635
Water Year Types[b]												
Wet (31%)	467	348	304	326	334	275	245	247	264	279	301	325
Above Normal (25%)	861	685	1,102	632	448	428	323	285	331	286	293	366
Below Normal (6%)	261	310	383	741	436	367	341	356	285	279	395	656
Dry (13%)	455	522	557	498	400	354	415	368	291	341	439	742
Critical (25%)	748	555	696	686	439	404	393	371	416	625	751	901

Alternative 4A (ELT) minus No Action Alternative (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-55	-414	-31	-151	-23	53	53	14	6	-35	64	-16
20%	-188	-548	-418	-44	-19	56	44	4	54	-152	-104	36
30%	-211	-571	-292	-55	13	10	36	-3	28	-243	-157	-13
40%	-216	-532	-313	-245	1	27	14	12	20	-110	-206	-85
50%	-135	-550	-261	-159	-20	9	2	7	22	-116	-196	-114
60%	14	72	-75	-209	-22	-1	10	6	20	-80	-153	18
70%	26	66	-62	-124	5	14	12	28	15	-3	-134	-162
80%	23	51	-29	-27	27	24	-37	-7	37	11	-138	-124
90%	29	47	-1	14	8	16	-26	-8	25	21	-56	-72
Long Term												
Full Simulation Period[a]	-72	-263	-140	-101	-8	26	13	6	21	-79	-101	-57
Water Year Types[b]												
Wet (31%)	-78	-404	-167	-66	36	3	-15	-13	20	19	-32	-69
Above Normal (25%)	-174	-355	-262	-16	72	129	-4	-4	68	9	-180	-140
Below Normal (6%)	-1	30	-17	-49	44	68	-14	-24	4	-100	-215	-316
Dry (13%)	8	-60	-27	-216	-16	35	48	14	13	-198	-199	-60
Critical (25%)	-104	-334	-184	-83	-78	-13	20	24	14	-93	-23	40

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-75-7. Old River at Rock Slough, Monthly EC

No Action Alternative (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,065	1,310	1,307	980	602	459	396	395	394	748	771	975
20%	1,029	1,090	1,158	839	579	425	385	383	315	679	720	845
30%	984	1,073	989	787	420	349	370	360	300	621	704	818
40%	921	1,002	957	774	391	320	355	340	293	473	674	806
50%	810	976	683	595	376	314	341	339	285	426	609	790
60%	273	326	401	587	362	303	332	335	281	379	511	610
70%	257	282	341	483	324	281	323	299	274	295	475	546
80%	251	259	302	379	288	259	313	275	242	267	435	483
90%	228	230	255	301	280	239	250	219	227	252	338	407
Long Term												
Full Simulation Period[a]	660	759	735	647	412	334	336	322	307	482	582	692
Water Year Types[b]												
Wet (31%)	545	752	472	392	298	272	259	261	244	260	332	394
Above Normal (25%)	1,035	1,039	1,364	648	376	299	327	288	264	277	473	505
Below Normal (6%)	262	280	401	790	391	299	355	380	281	379	610	972
Dry (13%)	447	582	584	713	416	319	367	354	278	538	638	803
Critical (25%)	852	889	880	769	517	417	373	347	403	717	774	860

Alternative 5A (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	962	1,211	1,238	895	578	474	408	400	377	677	748	797
20%	959	1,095	1,178	815	489	387	366	383	319	647	685	741
30%	861	982	887	795	419	376	364	367	294	584	653	670
40%	770	870	835	749	393	343	353	339	289	368	488	654
50%	716	855	567	577	379	326	342	331	285	351	467	631
60%	309	387	394	560	367	306	335	320	280	321	462	564
70%	291	348	356	486	321	272	313	292	272	286	451	451
80%	252	322	294	331	308	264	303	274	242	258	319	385
90%	233	276	273	308	289	246	254	217	223	251	266	361
Long Term												
Full Simulation Period[a]	604	746	695	623	406	340	336	321	300	428	509	581
Water Year Types[b]												
Wet (31%)	477	758	410	379	319	289	264	261	243	254	306	344
Above Normal (25%)	926	1,100	1,402	667	356	324	337	288	266	276	377	419
Below Normal (6%)	252	304	391	778	393	316	363	382	278	321	468	647
Dry (13%)	463	590	557	682	389	310	352	349	274	511	604	676
Critical (25%)	761	809	812	723	511	416	375	346	384	584	657	746

Alternative 5A (ELT) minus No Action Alternative (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-103	-99	-68	-85	-25	**15**	**12**	**5**	-18	-71	-23	-178
20%	-69	**5**	**20**	-24	-90	-38	-19	**0**	**5**	-32	-35	-104
30%	-123	-91	-102	**8**	-1	**27**	-6	**7**	-6	-38	-52	-149
40%	-151	-132	-123	-25	**2**	**23**	-3	-1	-4	-105	-186	-152
50%	-94	-121	-116	-18	**3**	**12**	**1**	-8	**0**	-75	-141	-160
60%	**36**	**62**	-6	-27	**4**	**2**	**3**	-14	-1	-58	-49	-46
70%	**34**	**66**	**14**	**2**	-2	-9	-9	-7	-2	-10	-24	-94
80%	**1**	**63**	-8	-47	**19**	**5**	-10	0	**0**	-9	-117	-99
90%	**5**	**46**	**18**	**7**	**9**	**7**	**4**	-1	-4	-1	-72	-46
Long Term												
Full Simulation Period[a]	-56	-12	-39	-24	-5	**6**	0	-1	-7	-54	-72	-111
Water Year Types[b]												
Wet (31%)	-68	**6**	-62	-13	**21**	**17**	**5**	**0**	-1	-6	-26	-50
Above Normal (25%)	-109	**60**	**38**	**19**	-20	**25**	**10**	**0**	**2**	-1	-96	-86
Below Normal (6%)	-10	**24**	-10	-12	**2**	**17**	**7**	**2**	-3	-58	-142	-325
Dry (13%)	**16**	**8**	-27	-32	-27	-9	-15	-5	-3	-27	-34	-127
Critical (25%)	-91	-80	-68	-46	-5	-1	**2**	-1	-19	-133	-117	-114

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

C.76. Sacramento River downstream of Steamboat Slough Salinity

Table C-76-1. Sacramento River d/s of Steamboat Slough, Monthly EC

Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	177	177	180	178	177	176	176	176	176	176	176
20%	176	177	176	179	178	177	176	176	176	175	176	176
30%	176	176	176	179	177	177	176	176	176	175	176	176
40%	176	176	176	178	177	177	176	176	176	175	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	176	176	176	178	177	176	176	176	176	175	176	176
70%	175	176	176	177	177	176	176	176	176	175	176	176
80%	175	176	175	177	176	176	176	176	176	175	175	176
90%	175	175	175	177	176	176	175	175	176	175	175	175
Long Term												
Full Simulation Period[a]	176	176	176	178	177	176	176	176	176	175	176	176
Water Year Types[b]												
Wet (31%)	175	177	176	178	177	176	176	176	176	175	176	175
Above Normal (25%)	176	175	179	179	177	176	176	176	176	175	176	176
Below Normal (6%)	176	176	176	185	181	176	176	176	176	175	176	176
Dry (13%)	176	176	176	178	177	176	176	176	176	175	175	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

No Action Alternative (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	177	177	181	178	177	176	176	176	176	176	176
20%	176	177	177	179	178	177	176	176	176	175	176	176
30%	176	176	176	179	177	177	176	176	176	175	176	176
40%	176	176	176	178	177	177	176	176	176	175	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	176	176	176	178	177	176	176	176	176	175	176	175
70%	175	175	176	178	177	176	176	176	176	175	176	175
80%	175	175	176	177	176	176	176	176	176	175	176	175
90%	175	175	175	177	176	176	175	176	176	175	175	175
Long Term												
Full Simulation Period[a]	176	176	176	179	177	177	176	176	176	175	176	176
Water Year Types[b]												
Wet (31%)	176	177	176	178	177	176	176	176	176	175	176	175
Above Normal (25%)	176	176	179	179	177	176	176	176	176	175	176	175
Below Normal (6%)	176	175	175	185	183	176	176	176	176	175	176	176
Dry (13%)	176	176	176	178	177	176	176	176	176	175	176	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

No Action Alternative (ELT) minus Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	1	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]												
Wet (31%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (25%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (6%)	0	0	0	0	1	0	0	0	0	0	0	0
Dry (13%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (25%)	0	0	0	0	0	0	0	0	0	0	0	0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

Table C-76-2. Sacramento River d/s of Steamboat Slough, Monthly EC

Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	177	177	180	178	177	176	176	176	176	176	176
20%	176	177	176	179	178	177	176	176	176	175	176	176
30%	176	176	176	179	177	177	176	176	176	175	176	176
40%	176	176	176	178	177	177	176	176	176	175	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	176	176	176	178	177	176	176	176	176	175	176	176
70%	175	176	176	177	177	176	176	176	176	175	176	176
80%	175	176	175	177	176	176	176	176	176	175	175	176
90%	175	175	175	177	176	176	175	175	176	175	175	175
Long Term												
Full Simulation Period[a]	176	176	176	178	177	176	176	176	176	175	176	176
Water Year Types[b]												
Wet (31%)	175	177	176	178	177	176	176	176	176	175	176	175
Above Normal (25%)	176	175	179	179	177	176	176	176	176	175	176	176
Below Normal (6%)	176	176	176	185	181	176	176	176	176	175	176	176
Dry (13%)	176	176	176	178	177	176	176	176	176	175	175	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 2D (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	178	177	181	178	177	176	176	176	176	176	176
20%	176	178	177	179	177	177	176	176	176	176	176	176
30%	176	176	176	179	177	177	176	176	176	176	176	176
40%	176	176	176	178	177	177	176	176	176	176	176	176
50%	176	176	176	178	177	176	176	176	176	176	176	176
60%	176	176	176	178	177	176	176	176	176	175	176	176
70%	176	176	176	177	177	176	176	176	176	175	176	176
80%	176	176	175	177	177	176	176	176	176	175	176	175
90%	175	175	175	177	176	176	175	175	176	175	175	175
Long Term												
Full Simulation Period[a]	176	176	176	179	177	177	176	176	176	176	176	176
Water Year Types[b]												
Wet (31%)	176	177	176	178	177	176	176	176	176	175	176	175
Above Normal (25%)	176	176	179	179	177	176	176	176	176	175	176	176
Below Normal (6%)	176	176	175	185	183	176	176	176	176	176	176	176
Dry (13%)	176	177	176	178	177	176	176	176	176	175	176	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 2D (ELT) minus Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	**1**	**0**	**1**	**0**	**0**	0	0	**0**	**0**	**0**	0
20%	**0**	**1**	**1**	**0**	0	**0**	**0**	**0**	**0**	**0**	**0**	**0**
30%	**0**	**0**	0	0	**0**	**0**	**0**	0	**0**	**0**	**0**	**0**
40%	**0**	**0**	**0**	0	**0**	**0**	**0**	0	0	**0**	**0**	**0**
50%	**0**	**0**	**0**	**0**	**0**	**0**	**0**	0	**0**	**0**	**0**	**0**
60%	**0**	**0**	**0**	0	0	**0**	**0**	**0**	0	0	**0**	0
70%	**0**	**0**	**0**	0	**0**	**0**	**0**	**0**	0	0	**0**	0
80%	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	0	0	**0**	0
90%	**0**	**0**	**0**	**0**	**0**	**0**	**0**	0	**0**	0	**0**	**0**
Long Term												
Full Simulation Period[a]	**0**	**0**	**0**	**0**	**0**	**0**	**0**	0	**0**	**0**	**0**	**0**
Water Year Types[b]												
Wet (31%)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	0
Above Normal (25%)	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	0	**0**	0
Below Normal (6%)	**0**	**0**	0	**1**	**2**	**0**	**0**	**0**	0	**0**	**0**	**0**
Dry (13%)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	0	0	**0**	**0**	**0**
Critical (25%)	**0**	**0**	**0**	0	**0**	**0**	**0**	0	0	**0**	**0**	**0**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-76-3. Sacramento River d/s of Steamboat Slough, Monthly EC

Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	177	177	180	178	177	176	176	176	176	176	176
20%	176	177	176	179	178	177	176	176	176	175	176	176
30%	176	176	176	179	177	177	176	176	176	175	176	176
40%	176	176	176	178	177	177	176	176	176	175	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	176	176	176	178	177	176	176	176	176	175	176	176
70%	175	176	176	177	177	176	176	176	176	175	176	176
80%	175	176	175	177	176	176	176	176	176	175	175	176
90%	175	175	175	177	176	176	175	175	176	175	175	175
Long Term												
Full Simulation Period[a]	176	176	176	178	177	176	176	176	176	175	176	176
Water Year Types[b]												
Wet (31%)	175	177	176	178	177	176	176	176	176	175	176	175
Above Normal (25%)	176	175	179	179	177	176	176	176	176	175	176	176
Below Normal (6%)	176	176	176	185	181	176	176	176	176	175	176	176
Dry (13%)	176	176	176	178	177	176	176	176	176	175	175	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 4A (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	178	177	181	178	177	176	176	176	176	176	176
20%	176	177	177	179	178	177	176	176	176	176	176	176
30%	176	176	176	179	177	177	176	176	176	176	176	176
40%	176	176	176	178	177	177	176	176	176	176	176	176
50%	176	176	176	178	177	176	176	176	176	176	176	176
60%	176	176	176	178	177	176	176	176	176	176	176	176
70%	176	176	176	177	177	176	176	176	176	175	176	175
80%	176	176	176	177	176	176	176	176	176	175	176	175
90%	175	175	175	177	176	176	175	176	176	175	175	175
Long Term												
Full Simulation Period[a]	176	176	176	179	177	177	176	176	176	176	176	176
Water Year Types[b]												
Wet (31%)	176	177	176	178	177	176	176	176	176	175	176	175
Above Normal (25%)	176	176	179	179	177	176	176	176	176	175	175	175
Below Normal (6%)	176	176	175	185	183	176	176	176	176	176	176	176
Dry (13%)	176	177	176	178	177	176	176	176	176	176	176	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 4A (ELT) minus Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	**1**	**0**	**1**	**0**	0	0	0	0	**0**	**0**	0
20%	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
30%	**0**	**0**	0	0	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
40%	**0**	**0**	**0**	0	**0**	**0**	**0**	0	**0**	**0**	**0**	**0**
50%	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	0	**0**	**0**	**0**
60%	**0**	**0**	**0**	0	0	**0**	**0**	**0**	**0**	**0**	**0**	0
70%	**0**	**0**	**0**	0	**0**	**0**	**0**	**0**	0	**0**	**0**	0
80%	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	0	**0**	**0**	0
90%	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	0
Long Term												
Full Simulation Period[a]	**0**	**0**	**0**	**0**	**0**	**0**	**0**	0	0	**0**	**0**	**0**
Water Year Types[b]												
Wet (31%)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	0
Above Normal (25%)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	0	0	0
Below Normal (6%)	**0**	**0**	0	**1**	**2**	**0**	**0**	**0**	0	**0**	**0**	**0**
Dry (13%)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	0	**0**	**0**	**0**
Critical (25%)	**0**	**0**	**0**	0	**0**	**0**	**0**	0	0	**0**	**0**	0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-76-4. Sacramento River d/s of Steamboat Slough, Monthly EC

Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	177	177	180	178	177	176	176	176	176	176	176
20%	176	177	176	179	178	177	176	176	176	175	176	176
30%	176	176	176	179	177	177	176	176	176	175	176	176
40%	176	176	176	178	177	177	176	176	176	175	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	176	176	176	178	177	176	176	176	176	175	176	176
70%	175	176	176	177	177	176	176	176	176	175	176	176
80%	175	176	175	177	176	176	176	176	176	175	175	176
90%	175	175	175	177	176	176	175	175	176	175	175	175
Long Term												
Full Simulation Period[a]	176	176	176	178	177	176	176	176	176	175	176	176
Water Year Types[b]												
Wet (31%)	175	177	176	178	177	176	176	176	176	175	176	175
Above Normal (25%)	176	175	179	179	177	176	176	176	176	175	176	176
Below Normal (6%)	176	176	176	185	181	176	176	176	176	175	176	176
Dry (13%)	176	176	176	178	177	176	176	176	176	175	175	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 5A (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	178	177	181	178	177	176	176	176	176	176	176
20%	176	178	177	179	178	177	176	176	176	176	176	176
30%	176	176	176	179	177	177	176	176	176	176	176	176
40%	176	176	176	178	177	177	176	176	176	175	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	176	176	176	178	177	176	176	176	176	175	176	176
70%	176	176	176	178	177	176	176	176	176	175	176	176
80%	176	176	176	177	176	176	176	176	176	175	176	175
90%	175	176	175	177	176	176	175	176	176	175	175	175
Long Term												
Full Simulation Period[a]	176	176	176	179	177	177	176	176	176	176	176	176
Water Year Types[b]												
Wet (31%)	176	177	176	178	177	176	176	176	176	175	176	175
Above Normal (25%)	176	176	179	179	177	176	176	176	176	175	176	176
Below Normal (6%)	176	176	175	185	183	176	176	176	176	175	176	176
Dry (13%)	176	177	176	178	177	176	176	176	176	175	176	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 5A (ELT) minus Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	1	0	1	0	0	0	0	0	0	0	0
20%	0	1	1	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]												
Wet (31%)	0	1	0	0	0	0	0	0	0	0	0	0
Above Normal (25%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (6%)	0	0	0	1	2	0	0	0	0	0	1	0
Dry (13%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (25%)	0	0	0	0	0	0	0	0	0	0	0	0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-76-5. Sacramento River d/s of Steamboat Slough, Monthly EC

No Action Alternative (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	177	177	181	178	177	176	176	176	176	176	176
20%	176	177	177	179	178	177	176	176	176	175	176	176
30%	176	176	176	179	177	177	176	176	176	175	176	176
40%	176	176	176	178	177	177	176	176	176	175	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	176	176	176	178	177	176	176	176	176	175	176	175
70%	175	175	176	178	177	176	176	176	176	175	176	175
80%	175	175	176	177	176	176	176	176	176	175	176	175
90%	175	175	175	177	176	176	175	176	176	175	175	175
Long Term												
Full Simulation Period[a]	176	176	176	179	177	177	176	176	176	175	176	176
Water Year Types[b]												
Wet (31%)	176	177	176	178	177	176	176	176	176	175	176	175
Above Normal (25%)	176	176	179	179	177	176	176	176	176	175	176	175
Below Normal (6%)	176	175	175	185	183	176	176	176	176	175	176	176
Dry (13%)	176	176	176	178	177	176	176	176	176	175	176	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 2D (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	178	177	181	178	177	176	176	176	176	176	176
20%	176	178	177	179	177	177	176	176	176	176	176	176
30%	176	176	176	179	177	177	176	176	176	176	176	176
40%	176	176	176	178	177	177	176	176	176	176	176	176
50%	176	176	176	178	177	176	176	176	176	176	176	176
60%	176	176	176	178	177	176	176	176	176	175	176	176
70%	176	176	176	177	177	176	176	176	176	175	176	176
80%	176	176	175	177	177	176	176	176	176	175	176	175
90%	175	175	175	177	176	176	175	175	176	175	175	175
Long Term												
Full Simulation Period[a]	176	176	176	179	177	177	176	176	176	176	176	176
Water Year Types[b]												
Wet (31%)	176	177	176	178	177	176	176	176	176	175	176	175
Above Normal (25%)	176	176	179	179	177	176	176	176	176	175	176	176
Below Normal (6%)	176	176	175	185	183	176	176	176	176	176	176	176
Dry (13%)	176	177	176	178	177	176	176	176	176	175	176	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 2D (ELT) minus No Action Alternative (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	**0**	**0**	**0**	**0**	**0**	0	**0**	**0**	**0**	0	0
20%	0	**0**	0	**0**	0	0	**0**	0	0	**0**	0	0
30%	**0**	**0**	**0**	0	0	0	**0**	0	0	**0**	**0**	**0**
40%	**0**	0	**0**	**0**	**0**	**0**	**0**	0	0	**0**	**0**	**0**
50%	**0**	**0**	**0**	**0**	**0**	**0**	**0**	0	0	**0**	**0**	**0**
60%	**0**	**0**	**0**	**0**	0	**0**	**0**	0	0	0	**0**	**0**
70%	**0**	**0**	**0**	0	**0**	**0**	**0**	**0**	0	0	**0**	**0**
80%	**0**	**0**	0	**0**	**0**	**0**	**0**	0	0	0	**0**	**0**
90%	**0**	**0**	**0**	**0**	**0**	**0**	**0**	0	0	**0**	**0**	**0**
Long Term												
Full Simulation Period[a]	**0**	**0**	**0**	**0**	**0**	**0**	**0**	0	0	**0**	**0**	**0**
Water Year Types[b]												
Wet (31%)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	0	**0**	**0**	**0**
Above Normal (25%)	0	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	0	**0**	**0**
Below Normal (6%)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	0	**0**	**0**	**0**
Dry (13%)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	0	0	**0**	**0**	**0**
Critical (25%)	0	**0**	0	0	0	**0**	**0**	0	0	**0**	0	0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-76-6. Sacramento River d/s of Steamboat Slough, Monthly EC

No Action Alternative (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	177	177	181	178	177	176	176	176	176	176	176
20%	176	177	177	179	178	177	176	176	176	175	176	176
30%	176	176	176	179	177	177	176	176	176	175	176	176
40%	176	176	176	178	177	177	176	176	176	175	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	176	176	176	178	177	176	176	176	176	175	176	175
70%	175	175	176	178	177	176	176	176	176	175	176	175
80%	175	175	176	177	176	176	176	176	176	175	176	175
90%	175	175	175	177	176	176	175	176	176	175	175	175
Long Term												
Full Simulation Period[a]	176	176	176	179	177	177	176	176	176	175	176	176
Water Year Types[b]												
Wet (31%)	176	177	176	178	177	176	176	176	176	175	176	175
Above Normal (25%)	176	176	179	179	177	176	176	176	176	175	176	175
Below Normal (6%)	176	175	175	185	183	176	176	176	176	175	176	176
Dry (13%)	176	176	176	178	177	176	176	176	176	175	176	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 4A (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	178	177	181	178	177	176	176	176	176	176	176
20%	176	177	177	179	178	177	176	176	176	176	176	176
30%	176	176	176	179	177	177	176	176	176	176	176	176
40%	176	176	176	178	177	177	176	176	176	176	176	176
50%	176	176	176	178	177	176	176	176	176	176	176	176
60%	176	176	176	178	177	176	176	176	176	176	176	176
70%	176	176	176	177	177	176	176	176	176	175	176	175
80%	176	176	176	177	176	176	176	176	176	175	176	175
90%	175	175	175	177	176	176	175	176	176	175	175	175
Long Term												
Full Simulation Period[a]	176	176	176	179	177	177	176	176	176	176	176	176
Water Year Types[b]												
Wet (31%)	176	177	176	178	177	176	176	176	176	175	176	175
Above Normal (25%)	176	176	179	179	177	176	176	176	176	175	175	175
Below Normal (6%)	176	176	175	185	183	176	176	176	176	176	176	176
Dry (13%)	176	177	176	178	177	176	176	176	176	176	176	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 4A (ELT) minus No Action Alternative (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]												
Wet (31%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (25%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (6%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry (13%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (25%)	0	0	0	0	0	0	0	0	0	0	0	0

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-76-7. Sacramento River d/s of Steamboat Slough, Monthly EC

No Action Alternative (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	177	177	181	178	177	176	176	176	176	176	176
20%	176	177	177	179	178	177	176	176	176	175	176	176
30%	176	176	176	179	177	177	176	176	176	175	176	176
40%	176	176	176	178	177	177	176	176	176	175	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	176	176	176	178	177	176	176	176	176	175	176	175
70%	175	175	176	178	177	176	176	176	176	175	176	175
80%	175	175	176	177	176	176	176	176	176	175	176	175
90%	175	175	175	177	176	176	175	176	176	175	175	175
Long Term												
Full Simulation Period[a]	176	176	176	179	177	177	176	176	176	175	176	176
Water Year Types[b]												
Wet (31%)	176	177	176	178	177	176	176	176	176	175	176	175
Above Normal (25%)	176	176	179	179	177	176	176	176	176	175	176	175
Below Normal (6%)	176	175	175	185	183	176	176	176	176	175	176	176
Dry (13%)	176	176	176	178	177	176	176	176	176	175	176	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 5A (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	176	178	177	181	178	177	176	176	176	176	176	176
20%	176	178	177	179	178	177	176	176	176	176	176	176
30%	176	176	176	179	177	177	176	176	176	176	176	176
40%	176	176	176	178	177	177	176	176	176	175	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	176	176	176	178	177	176	176	176	176	175	176	176
70%	176	176	176	178	177	176	176	176	176	175	176	176
80%	176	176	176	177	176	176	176	176	176	175	176	175
90%	175	176	175	177	176	176	175	176	176	175	175	175
Long Term												
Full Simulation Period[a]	176	176	176	179	177	177	176	176	176	176	176	176
Water Year Types[b]												
Wet (31%)	176	177	176	178	177	176	176	176	176	175	176	175
Above Normal (25%)	176	176	179	179	177	176	176	176	176	175	176	176
Below Normal (6%)	176	176	175	185	183	176	176	176	176	175	176	176
Dry (13%)	176	177	176	178	177	176	176	176	176	175	176	176
Critical (25%)	176	176	176	178	177	177	176	176	176	176	176	176

Alternative 5A (ELT) minus No Action Alternative (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	**0**	**0**	**0**	**0**	0	**0**	0	0	**0**	0	**0**
20%	0	**1**	**0**	**0**	0	0	**0**	**0**	0	**0**	0	**0**
30%	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
40%	**0**	0	**0**	**0**	**0**	**0**	0	**0**	**0**	**0**	**0**	**0**
50%	**0**	**0**	0	**0**	0	**0**	**0**	**0**	**0**	**0**	**0**	**0**
60%	**0**	**0**	**0**	**0**	0	**0**	**0**	0	**0**	0	**0**	**0**
70%	**0**	**0**	**0**	0	**0**	**0**	**0**	**0**	0	0	**0**	**0**
80%	**0**	**0**	0	**0**	**0**	**0**	**0**	**0**	0	**0**	**0**	**0**
90%	**0**	**0**	**0**	0	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Long Term												
Full Simulation Period[a]	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Water Year Types[b]												
Wet (31%)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	0	**0**	**0**	**0**
Above Normal (25%)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	0	**0**	**0**
Below Normal (6%)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	0	**0**	**0**	**1**
Dry (13%)	**0**	**0**	**0**	**0**	0	**0**	**0**	0	**0**	**0**	**0**	**0**
Critical (25%)	**0**	**0**	0	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

C.77. Sacramento River at Mallard Slough Salinity

Table C-77-1. Sacramento River at Mallard Slough, Monthly EC

Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,122	14,069	12,333	9,904	8,297	4,059	4,600	7,163	10,179	11,603	11,627	13,190
20%	13,584	13,673	12,070	8,056	6,682	3,221	3,775	6,336	8,297	10,291	11,148	12,948
30%	13,405	13,295	12,041	6,761	3,653	2,352	2,421	5,447	7,018	9,460	10,150	12,370
40%	13,211	13,140	11,204	5,512	3,558	1,376	1,923	3,332	5,656	8,317	9,439	11,941
50%	12,772	12,978	9,171	4,234	1,214	895	1,022	2,755	5,585	8,259	8,609	11,515
60%	11,718	12,740	8,086	3,402	663	334	689	1,717	4,059	6,402	8,162	11,000
70%	11,075	9,371	7,246	1,282	225	218	515	871	2,861	5,146	7,928	10,893
80%	10,674	7,398	1,490	351	216	208	381	747	2,161	4,326	7,794	10,135
90%	3,879	2,830	199	216	213	205	211	300	1,098	3,818	7,508	6,703
Long Term												
Full Simulation Period[a]	11,009	10,456	8,018	4,607	3,002	1,735	1,967	3,394	5,366	7,407	8,862	10,603
Water Year Types[b]												
Wet (31%)	7,319	5,554	2,062	1,042	210	210	363	711	1,907	3,470	5,971	6,344
Above Normal (25%)	13,938	12,767	9,645	667	221	208	322	623	1,847	4,306	7,871	10,288
Below Normal (6%)	11,300	12,740	12,379	5,512	849	334	802	899	3,007	6,402	8,316	11,941
Dry (13%)	11,788	11,518	8,960	6,320	3,932	1,457	1,675	3,482	5,880	8,496	9,059	11,483
Critical (25%)	12,107	12,146	10,506	7,484	6,033	4,069	4,375	7,077	9,603	11,127	11,523	13,165

No Action Alternative (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,950	15,061	13,134	8,321	7,594	5,543	5,190	7,132	9,715	11,037	11,651	13,575
20%	14,159	14,232	12,131	8,203	5,921	3,672	4,390	6,158	7,730	9,819	11,521	13,447
30%	13,560	14,163	9,830	6,675	3,904	2,741	2,634	4,933	7,164	9,277	10,258	12,675
40%	13,279	12,310	8,058	5,638	3,499	1,320	2,132	4,212	6,313	8,734	9,662	12,412
50%	13,188	10,131	7,651	4,353	2,143	1,266	1,336	3,078	5,908	7,926	8,677	11,693
60%	6,545	6,595	7,349	3,427	966	453	848	2,263	4,641	6,200	8,528	10,719
70%	4,459	5,102	6,142	1,290	222	225	585	1,206	3,736	5,658	8,394	6,140
80%	3,010	3,516	2,509	313	213	202	403	953	3,031	4,788	8,050	3,871
90%	2,948	1,854	202	212	208	201	212	327	2,184	4,520	6,866	3,267
Long Term												
Full Simulation Period[a]	9,524	9,075	7,451	4,462	3,024	2,002	2,176	3,516	5,728	7,479	9,102	9,463
Water Year Types[b]												
Wet (31%)	7,846	5,965	2,071	1,011	206	211	406	928	2,658	3,607	6,445	3,090
Above Normal (25%)	14,117	13,627	9,830	614	220	204	347	698	3,019	5,658	8,394	6,140
Below Normal (6%)	6,545	6,595	8,058	4,478	1,041	453	938	1,358	3,031	7,217	9,662	12,691
Dry (13%)	6,747	7,182	7,365	6,352	3,849	1,796	1,928	3,793	6,204	8,163	8,886	11,629
Critical (25%)	11,847	11,752	10,750	7,246	6,137	4,629	4,769	6,923	9,425	10,809	11,572	13,513

No Action Alternative (ELT) minus Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	827	992	800	-1,583	-702	1,484	590	-31	-464	-566	24	385
20%	575	558	61	146	-761	451	615	-178	-567	-471	373	499
30%	156	867	-2,211	-85	251	389	213	-514	146	-183	108	304
40%	68	-831	-3,146	125	-60	-56	210	880	657	417	223	471
50%	416	-2,846	-1,519	119	929	372	313	323	323	-333	69	178
60%	-5,174	-6,145	-737	25	304	120	158	546	582	-203	366	-281
70%	-6,615	-4,269	-1,104	8	-3	6	70	335	876	513	466	-4,753
80%	-7,664	-3,882	1,019	-38	-3	-6	22	206	869	462	256	-6,264
90%	-932	-976	3	-4	-4	-4	1	28	1,085	702	-642	-3,435
Long Term												
Full Simulation Period[a]	-1,485	-1,381	-567	-145	23	267	209	122	362	72	240	-1,140
Water Year Types[b]												
Wet (31%)	526	411	9	-30	-4	1	44	217	752	138	475	-3,255
Above Normal (25%)	179	860	185	-53	-2	-5	25	75	1,172	1,352	523	-4,148
Below Normal (6%)	-4,755	-6,145	-4,321	-1,035	192	120	136	459	24	815	1,346	751
Dry (13%)	-5,041	-4,337	-1,595	33	-83	339	253	312	325	-333	-173	146
Critical (25%)	-260	-394	244	-238	104	560	394	-154	-178	-318	49	348

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

Table C-77-2. Sacramento River at Mallard Slough, Monthly EC

Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,122	14,069	12,333	9,904	8,297	4,059	4,600	7,163	10,179	11,603	11,627	13,190
20%	13,584	13,673	12,070	8,056	6,682	3,221	3,775	6,336	8,297	10,291	11,148	12,948
30%	13,405	13,295	12,041	6,761	3,653	2,352	2,421	5,447	7,018	9,460	10,150	12,370
40%	13,211	13,140	11,204	5,512	3,558	1,376	1,923	3,332	5,656	8,317	9,439	11,941
50%	12,772	12,978	9,171	4,234	1,214	895	1,022	2,755	5,585	8,259	8,609	11,515
60%	11,718	12,740	8,086	3,402	663	334	689	1,717	4,059	6,402	8,162	11,000
70%	11,075	9,371	7,246	1,282	225	218	515	871	2,861	5,146	7,928	10,893
80%	10,674	7,398	1,490	351	216	208	381	747	2,161	4,326	7,794	10,135
90%	3,879	2,830	199	216	213	205	211	300	1,098	3,818	7,508	6,703
Long Term												
Full Simulation Period[a]	11,009	10,456	8,018	4,607	3,002	1,735	1,967	3,394	5,366	7,407	8,862	10,603
Water Year Types[b]												
Wet (31%)	7,319	5,554	2,062	1,042	210	210	363	711	1,907	3,470	5,971	6,344
Above Normal (25%)	13,938	12,767	9,645	667	221	208	322	623	1,847	4,306	7,871	10,288
Below Normal (6%)	11,300	12,740	12,379	5,512	849	334	802	899	3,007	6,402	8,316	11,941
Dry (13%)	11,788	11,518	8,960	6,320	3,932	1,457	1,675	3,482	5,880	8,496	9,059	11,483
Critical (25%)	12,107	12,146	10,506	7,484	6,033	4,069	4,375	7,077	9,603	11,127	11,523	13,165

Alternative 2D (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,320	13,606	12,023	8,318	6,274	4,785	4,708	7,285	9,692	12,066	12,226	13,267
20%	11,985	11,903	11,564	5,940	5,295	3,596	4,199	5,784	7,177	9,830	11,425	13,039
30%	11,606	11,325	9,687	5,148	3,532	2,339	2,719	4,392	6,459	9,359	10,180	12,701
40%	11,060	10,686	8,068	4,401	2,417	1,675	2,340	3,698	5,180	8,127	9,862	12,378
50%	10,481	7,921	6,344	3,466	1,691	1,432	1,399	2,972	4,914	7,233	9,437	12,148
60%	5,476	5,743	6,203	1,893	1,020	456	940	2,182	4,621	5,406	8,316	11,271
70%	3,830	4,371	5,680	1,444	254	250	747	1,232	2,666	4,912	7,777	5,803
80%	2,719	3,103	1,469	323	229	218	415	982	2,057	4,585	7,581	3,642
90%	2,684	1,624	198	232	225	205	235	338	1,629	4,122	7,463	3,090
Long Term												
Full Simulation Period[a]	8,167	7,761	6,864	3,648	2,547	1,886	2,138	3,375	5,110	7,261	9,197	9,365
Water Year Types[b]												
Wet (31%)	6,462	4,369	1,696	895	224	217	434	958	2,202	3,592	6,698	2,910
Above Normal (25%)	12,330	12,310	9,855	813	250	231	424	781	1,981	4,418	7,777	5,803
Below Normal (6%)	5,476	5,758	8,068	4,019	1,020	456	959	1,347	2,691	6,780	9,783	12,477
Dry (13%)	5,839	6,519	6,479	4,831	3,355	1,832	2,050	3,403	5,205	7,580	9,164	12,155
Critical (25%)	10,268	10,048	9,870	5,965	4,981	4,213	4,492	6,730	9,096	11,174	11,673	13,098

Alternative 2D (ELT) minus Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-802	-463	-311	-1,585	-2,022	726	109	122	-487	463	599	77
20%	-1,599	-1,771	-506	-2,116	-1,387	375	424	-552	-1,120	-461	277	92
30%	-1,799	-1,970	-2,354	-1,613	-121	-13	298	-1,056	-559	-100	29	331
40%	-2,150	-2,455	-3,136	-1,111	-1,141	299	418	366	-476	-190	423	438
50%	-2,291	-5,056	-2,826	-769	477	537	376	218	-671	-1,026	828	633
60%	-6,243	-6,998	-1,883	-1,509	358	122	251	464	562	-996	154	271
70%	-7,244	-5,000	-1,567	162	29	32	232	361	-195	-233	-151	-5,090
80%	-7,955	-4,295	-21	-28	13	10	34	235	-104	259	-213	-6,493
90%	-1,196	-1,205	-1	16	12	1	24	38	531	303	-45	-3,613
Long Term												
Full Simulation Period[a]	-2,842	-2,695	-1,154	-959	-455	151	171	-19	-256	-146	335	-1,238
Water Year Types[b]												
Wet (31%)	-857	-1,185	-366	-147	14	7	71	247	295	123	727	-3,434
Above Normal (25%)	-1,608	-457	210	146	29	23	102	158	135	112	-94	-4,485
Below Normal (6%)	-5,824	-6,982	-4,311	-1,493	171	122	157	448	-316	378	1,467	536
Dry (13%)	-5,949	-5,000	-2,481	-1,489	-578	375	375	-79	-675	-916	105	673
Critical (25%)	-1,840	-2,097	-636	-1,519	-1,052	144	118	-347	-507	48	150	-67

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-77-3. Sacramento River at Mallard Slough, Monthly EC

Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,122	14,069	12,333	9,904	8,297	4,059	4,600	7,163	10,179	11,603	11,627	13,190
20%	13,584	13,673	12,070	8,056	6,682	3,221	3,775	6,336	8,297	10,291	11,148	12,948
30%	13,405	13,295	12,041	6,761	3,653	2,352	2,421	5,447	7,018	9,460	10,150	12,370
40%	13,211	13,140	11,204	5,512	3,558	1,376	1,923	3,332	5,656	8,317	9,439	11,941
50%	12,772	12,978	9,171	4,234	1,214	895	1,022	2,755	5,585	8,259	8,609	11,515
60%	11,718	12,740	8,086	3,402	663	334	689	1,717	4,059	6,402	8,162	11,000
70%	11,075	9,371	7,246	1,282	225	218	515	871	2,861	5,146	7,928	10,893
80%	10,674	7,398	1,490	351	216	208	381	747	2,161	4,326	7,794	10,135
90%	3,879	2,830	199	216	213	205	211	300	1,098	3,818	7,508	6,703
Long Term												
Full Simulation Period[a]	11,009	10,456	8,018	4,607	3,002	1,735	1,967	3,394	5,366	7,407	8,862	10,603
Water Year Types[b]												
Wet (31%)	7,319	5,554	2,062	1,042	210	210	363	711	1,907	3,470	5,971	6,344
Above Normal (25%)	13,938	12,767	9,645	667	221	208	322	623	1,847	4,306	7,871	10,288
Below Normal (6%)	11,300	12,740	12,379	5,512	849	334	802	899	3,007	6,402	8,316	11,941
Dry (13%)	11,788	11,518	8,960	6,320	3,932	1,457	1,675	3,482	5,880	8,496	9,059	11,483
Critical (25%)	12,107	12,146	10,506	7,484	6,033	4,069	4,375	7,077	9,603	11,127	11,523	13,165

Alternative 4A (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,046	14,296	12,469	8,699	6,805	5,149	5,037	7,095	9,692	12,355	12,669	13,915
20%	12,242	12,053	12,213	6,022	5,726	3,714	4,489	6,190	7,631	10,934	12,132	13,546
30%	11,842	11,520	10,087	5,005	3,302	2,485	2,965	4,743	6,899	9,825	11,123	13,318
40%	11,685	11,235	8,560	4,580	2,550	1,801	2,159	4,180	6,167	8,901	10,224	13,012
50%	10,992	8,414	6,672	3,568	1,841	1,540	1,427	3,147	5,637	8,156	10,208	12,923
60%	5,935	6,153	6,412	2,151	927	502	856	2,221	4,174	7,353	9,352	12,499
70%	4,127	4,615	5,952	1,441	244	247	586	1,198	2,727	5,431	8,570	6,200
80%	2,935	3,419	1,732	328	222	216	391	952	2,151	5,027	8,235	4,027
90%	2,930	1,847	197	223	216	205	230	318	1,727	4,488	8,178	3,362
Long Term												
Full Simulation Period[a]	8,565	8,106	7,186	3,773	2,663	2,011	2,225	3,493	5,377	7,886	9,894	9,922
Water Year Types[b]												
Wet (31%)	6,917	4,655	1,684	873	218	217	406	915	2,077	3,966	7,287	3,192
Above Normal (25%)	12,632	12,505	10,041	750	241	226	362	689	2,087	4,822	8,228	6,200
Below Normal (6%)	5,935	6,276	8,651	4,291	927	502	965	1,352	2,946	7,353	10,221	12,961
Dry (13%)	6,261	6,944	6,848	5,180	3,599	1,968	2,134	3,765	5,917	8,640	10,192	13,005
Critical (25%)	10,625	10,402	10,424	6,074	5,188	4,496	4,749	6,889	9,388	11,749	12,342	13,720

Alternative 4A (ELT) minus Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-77	227	136	-1,205	-1,492	1,090	437	-67	-487	752	1,042	725
20%	-1,342	-1,620	143	-2,034	-956	493	714	-146	-666	643	983	598
30%	-1,563	-1,775	-1,954	-1,756	-351	133	544	-705	-119	365	973	947
40%	-1,526	-1,906	-2,644	-933	-1,008	425	237	848	510	583	785	1,071
50%	-1,780	-4,563	-2,499	-666	628	646	404	393	53	-103	1,600	1,408
60%	-5,783	-6,587	-1,674	-1,251	264	168	167	504	115	951	1,190	1,499
70%	-6,947	-4,756	-1,295	159	20	29	71	327	-134	285	642	-4,693
80%	-7,739	-3,979	242	-23	6	8	9	206	-10	701	441	-6,108
90%	-949	-982	-2	6	3	0	19	18	629	670	671	-3,341
Long Term												
Full Simulation Period[a]	-2,444	-2,350	-832	-834	-338	276	258	100	11	479	1,032	-681
Water Year Types[b]												
Wet (31%)	-402	-899	-378	-168	7	7	43	203	170	497	1,317	-3,152
Above Normal (25%)	-1,306	-262	397	83	19	18	41	66	240	516	357	-4,087
Below Normal (6%)	-5,364	-6,464	-3,729	-1,222	78	168	163	453	-61	951	1,905	1,021
Dry (13%)	-5,528	-4,575	-2,113	-1,140	-334	511	459	284	38	144	1,133	1,522
Critical (25%)	-1,482	-1,743	-82	-1,410	-845	427	374	-188	-214	623	819	555

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-77-4. Sacramento River at Mallard Slough, Monthly EC

Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,122	14,069	12,333	9,904	8,297	4,059	4,600	7,163	10,179	11,603	11,627	13,190
20%	13,584	13,673	12,070	8,056	6,682	3,221	3,775	6,336	8,297	10,291	11,148	12,948
30%	13,405	13,295	12,041	6,761	3,653	2,352	2,421	5,447	7,018	9,460	10,150	12,370
40%	13,211	13,140	11,204	5,512	3,558	1,376	1,923	3,332	5,656	8,317	9,439	11,941
50%	12,772	12,978	9,171	4,234	1,214	895	1,022	2,755	5,585	8,259	8,609	11,515
60%	11,718	12,740	8,086	3,402	663	334	689	1,717	4,059	6,402	8,162	11,000
70%	11,075	9,371	7,246	1,282	225	218	515	871	2,861	5,146	7,928	10,893
80%	10,674	7,398	1,490	351	216	208	381	747	2,161	4,326	7,794	10,135
90%	3,879	2,830	199	216	213	205	211	300	1,098	3,818	7,508	6,703
Long Term												
Full Simulation Period[a]	11,009	10,456	8,018	4,607	3,002	1,735	1,967	3,394	5,366	7,407	8,862	10,603
Water Year Types[b]												
Wet (31%)	7,319	5,554	2,062	1,042	210	210	363	711	1,907	3,470	5,971	6,344
Above Normal (25%)	13,938	12,767	9,645	667	221	208	322	623	1,847	4,306	7,871	10,288
Below Normal (6%)	11,300	12,740	12,379	5,512	849	334	802	899	3,007	6,402	8,316	11,941
Dry (13%)	11,788	11,518	8,960	6,320	3,932	1,457	1,675	3,482	5,880	8,496	9,059	11,483
Critical (25%)	12,107	12,146	10,506	7,484	6,033	4,069	4,375	7,077	9,603	11,127	11,523	13,165

Alternative 5A (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,718	14,937	12,905	8,532	7,215	5,266	4,902	6,936	9,420	11,992	12,098	13,275
20%	14,056	13,885	12,088	7,021	5,150	3,564	4,176	5,846	7,278	9,731	11,410	12,766
30%	13,804	13,742	10,072	5,832	3,924	2,762	2,827	4,602	6,553	8,682	9,738	12,659
40%	13,381	13,597	8,138	5,281	3,567	1,530	2,053	3,848	5,787	8,346	9,390	12,195
50%	13,310	11,148	7,501	4,289	2,087	1,329	1,338	3,126	5,508	7,376	8,631	11,638
60%	6,130	5,908	6,946	3,958	1,016	467	913	2,171	4,614	5,919	8,282	10,969
70%	4,146	4,779	5,763	1,361	223	222	674	1,264	3,698	5,488	7,979	5,741
80%	2,667	3,227	2,715	304	217	206	419	1,089	2,874	4,929	7,703	3,587
90%	2,619	1,659	210	217	212	202	217	348	2,332	4,667	6,811	3,058
Long Term												
Full Simulation Period[a]	9,368	9,049	7,345	4,319	2,941	1,979	2,141	3,403	5,476	7,386	8,962	9,253
Water Year Types[b]												
Wet (31%)	7,781	6,008	2,185	1,147	208	210	427	999	2,653	3,708	6,391	2,871
Above Normal (25%)	14,368	14,369	10,072	672	223	206	386	809	3,202	5,488	7,979	5,741
Below Normal (6%)	6,130	5,794	7,790	4,300	1,016	467	939	1,393	2,721	6,644	9,390	12,690
Dry (13%)	6,377	6,947	7,198	5,555	3,454	1,885	2,053	3,561	5,675	7,726	8,679	11,718
Critical (25%)	11,680	11,685	10,411	7,329	6,188	4,481	4,524	6,640	9,034	10,965	11,552	13,104

Alternative 5A (ELT) minus Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	595	867	572	-1,371	-1,081	1,207	302	-227	-758	388	471	85
20%	472	212	18	-1,036	-1,532	343	401	-490	-1,019	-560	262	-181
30%	399	447	-1,969	-929	271	410	406	-846	-465	-778	-412	289
40%	170	456	-3,066	-232	9	154	131	516	131	28	-49	255
50%	539	-1,830	-1,669	55	873	434	316	371	-77	-883	22	123
60%	-5,588	-6,832	-1,140	556	354	133	224	454	555	-484	120	-30
70%	-6,928	-4,592	-1,483	79	-2	4	159	393	838	342	51	-5,153
80%	-8,006	-4,171	1,225	-47	1	-2	37	342	713	603	-92	-6,547
90%	-1,260	-1,171	11	0	-1	-3	6	48	1,234	848	-696	-3,645
Long Term												
Full Simulation Period[a]	-1,641	-1,407	-672	-288	-61	244	174	9	109	-21	100	-1,350
Water Year Types[b]												
Wet (31%)	461	454	124	105	-2	0	64	288	747	238	420	-3,473
Above Normal (25%)	430	1,602	428	5	2	-2	64	186	1,356	1,182	108	-4,547
Below Normal (6%)	-5,170	-6,946	-4,589	-1,212	167	133	136	494	-285	241	1,074	750
Dry (13%)	-5,412	-4,571	-1,762	-765	-478	428	378	79	-204	-771	-380	236
Critical (25%)	-428	-460	-94	-154	155	412	149	-437	-569	-162	29	-61

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-77-5. Sacramento River at Mallard Slough, Monthly EC

No Action Alternative (ELT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,950	15,061	13,134	8,321	7,594	5,543	5,190	7,132	9,715	11,037	11,651	13,575
20%	14,159	14,232	12,131	8,203	5,921	3,672	4,390	6,158	7,730	9,819	11,521	13,447
30%	13,560	14,163	9,830	6,675	3,904	2,741	2,634	4,933	7,164	9,277	10,258	12,675
40%	13,279	12,310	8,058	5,638	3,499	1,320	2,132	4,212	6,313	8,734	9,662	12,412
50%	13,188	10,131	7,651	4,353	2,143	1,266	1,336	3,078	5,908	7,926	8,677	11,693
60%	6,545	6,595	7,349	3,427	966	453	848	2,263	4,641	6,200	8,528	10,719
70%	4,459	5,102	6,142	1,290	222	225	585	1,206	3,736	5,658	8,394	6,140
80%	3,010	3,516	2,509	313	213	202	403	953	3,031	4,788	8,050	3,871
90%	2,948	1,854	202	212	208	201	212	327	2,184	4,520	6,866	3,267
Long Term												
Full Simulation Period[a]	9,524	9,075	7,451	4,462	3,024	2,002	2,176	3,516	5,728	7,479	9,102	9,463
Water Year Types[b]												
Wet (31%)	7,846	5,965	2,071	1,011	206	211	406	928	2,658	3,607	6,445	3,090
Above Normal (25%)	14,117	13,627	9,830	614	220	204	347	698	3,019	5,658	8,394	6,140
Below Normal (6%)	6,545	6,595	8,058	4,478	1,041	453	938	1,358	3,031	7,217	9,662	12,691
Dry (13%)	6,747	7,182	7,365	6,352	3,849	1,796	1,928	3,793	6,204	8,163	8,886	11,629
Critical (25%)	11,847	11,752	10,750	7,246	6,137	4,629	4,769	6,923	9,425	10,809	11,572	13,513

Alternative 2D (ELT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,320	13,606	12,023	8,318	6,274	4,785	4,708	7,285	9,692	12,066	12,226	13,267
20%	11,985	11,903	11,564	5,940	5,295	3,596	4,199	5,784	7,177	9,830	11,425	13,039
30%	11,606	11,325	9,687	5,148	3,532	2,339	2,719	4,392	6,459	9,359	10,180	12,701
40%	11,060	10,686	8,068	4,401	2,417	1,675	2,340	3,698	5,180	8,127	9,862	12,378
50%	10,481	7,921	6,344	3,466	1,691	1,432	1,399	2,972	4,914	7,233	9,437	12,148
60%	5,476	5,743	6,203	1,893	1,020	456	940	2,182	4,621	5,406	8,316	11,271
70%	3,830	4,371	5,680	1,444	254	250	747	1,232	2,666	4,912	7,777	5,803
80%	2,719	3,103	1,469	323	229	218	415	982	2,057	4,585	7,581	3,642
90%	2,684	1,624	198	232	225	205	235	338	1,629	4,122	7,463	3,090
Long Term												
Full Simulation Period[a]	8,167	7,761	6,864	3,648	2,547	1,886	2,138	3,375	5,110	7,261	9,197	9,365
Water Year Types[b]												
Wet (31%)	6,462	4,369	1,696	895	224	217	434	958	2,202	3,592	6,698	2,910
Above Normal (25%)	12,330	12,310	9,855	813	250	231	424	781	1,981	4,418	7,777	5,803
Below Normal (6%)	5,476	5,758	8,068	4,019	1,020	456	959	1,347	2,691	6,780	9,783	12,477
Dry (13%)	5,839	6,519	6,479	4,831	3,355	1,832	2,050	3,403	5,205	7,580	9,164	12,155
Critical (25%)	10,268	10,048	9,870	5,965	4,981	4,213	4,492	6,730	9,096	11,174	11,673	13,098

Alternative 2D (ELT) minus No Action Alternative (ELT)

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,629	-1,455	-1,111	-3	-1,320	-758	-482	**153**	-23	**1,029**	**575**	-308
20%	-2,174	-2,329	-567	-2,263	-626	-76	-191	-374	-553	**11**	-95	-408
30%	-1,955	-2,838	-143	-1,528	-372	-402	**85**	-542	-705	**83**	-78	**26**
40%	-2,219	-1,624	**11**	-1,236	-1,082	**354**	**208**	-514	-1,133	-607	**200**	-33
50%	-2,707	-2,210	-1,307	-888	-451	**165**	**63**	-106	-994	-693	**760**	**455**
60%	-1,069	-852	-1,146	-1,534	**54**	**3**	**93**	-82	-20	-793	-211	**552**
70%	-629	-731	-462	**154**	**32**	**26**	**162**	**26**	-1,071	-746	-618	-337
80%	-290	-413	-1,040	**10**	**16**	**16**	**12**	**29**	-974	-203	-469	-229
90%	-264	-230	-3	**20**	**16**	**4**	**23**	**10**	-555	-398	**596**	-178
Long Term												
Full Simulation Period[a]	-1,357	-1,314	-586	-814	-478	-116	-38	-141	-618	-218	**95**	-99
Water Year Types[b]												
Wet (31%)	-1,384	-1,596	-375	-117	**18**	**5**	**27**	**30**	-456	-15	**253**	-180
Above Normal (25%)	-1,787	-1,317	**25**	**199**	**30**	**28**	**77**	**83**	-1,037	-1,240	-618	-337
Below Normal (6%)	-1,069	-837	**11**	-458	-21	**3**	**21**	-11	-340	-437	**121**	-214
Dry (13%)	-908	-663	-886	-1,522	-494	**36**	**123**	-391	-1,000	-583	**278**	**526**
Critical (25%)	-1,579	-1,703	-880	-1,281	-1,155	-415	-277	-193	-329	**365**	**101**	-415

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-77-6. Sacramento River at Mallard Slough, Monthly EC

No Action Alternative (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,950	15,061	13,134	8,321	7,594	5,543	5,190	7,132	9,715	11,037	11,651	13,575
20%	14,159	14,232	12,131	8,203	5,921	3,672	4,390	6,158	7,730	9,819	11,521	13,447
30%	13,560	14,163	9,830	6,675	3,904	2,741	2,634	4,933	7,164	9,277	10,258	12,675
40%	13,279	12,310	8,058	5,638	3,499	1,320	2,132	4,212	6,313	8,734	9,662	12,412
50%	13,188	10,131	7,651	4,353	2,143	1,266	1,336	3,078	5,908	7,926	8,677	11,693
60%	6,545	6,595	7,349	3,427	966	453	848	2,263	4,641	6,200	8,528	10,719
70%	4,459	5,102	6,142	1,290	222	225	585	1,206	3,736	5,658	8,394	6,140
80%	3,010	3,516	2,509	313	213	202	403	953	3,031	4,788	8,050	3,871
90%	2,948	1,854	202	212	208	201	212	327	2,184	4,520	6,866	3,267
Long Term												
Full Simulation Period[a]	9,524	9,075	7,451	4,462	3,024	2,002	2,176	3,516	5,728	7,479	9,102	9,463
Water Year Types[b]												
Wet (31%)	7,846	5,965	2,071	1,011	206	211	406	928	2,658	3,607	6,445	3,090
Above Normal (25%)	14,117	13,627	9,830	614	220	204	347	698	3,019	5,658	8,394	6,140
Below Normal (6%)	6,545	6,595	8,058	4,478	1,041	453	938	1,358	3,031	7,217	9,662	12,691
Dry (13%)	6,747	7,182	7,365	6,352	3,849	1,796	1,928	3,793	6,204	8,163	8,886	11,629
Critical (25%)	11,847	11,752	10,750	7,246	6,137	4,629	4,769	6,923	9,425	10,809	11,572	13,513

Alternative 4A (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,046	14,296	12,469	8,699	6,805	5,149	5,037	7,095	9,692	12,355	12,669	13,915
20%	12,242	12,053	12,213	6,022	5,726	3,714	4,489	6,190	7,631	10,934	12,132	13,546
30%	11,842	11,520	10,087	5,005	3,302	2,485	2,965	4,743	6,899	9,825	11,123	13,318
40%	11,685	11,235	8,560	4,580	2,550	1,801	2,159	4,180	6,167	8,901	10,224	13,012
50%	10,992	8,414	6,672	3,568	1,841	1,540	1,427	3,147	5,637	8,156	10,208	12,923
60%	5,935	6,153	6,412	2,151	927	502	856	2,221	4,174	7,353	9,352	12,499
70%	4,127	4,615	5,952	1,441	244	247	586	1,198	2,727	5,431	8,570	6,200
80%	2,935	3,419	1,732	328	222	216	391	952	2,151	5,027	8,235	4,027
90%	2,930	1,847	197	223	216	205	230	318	1,727	4,488	8,178	3,362
Long Term												
Full Simulation Period[a]	8,565	8,106	7,186	3,773	2,663	2,011	2,225	3,493	5,377	7,886	9,894	9,922
Water Year Types[b]												
Wet (31%)	6,917	4,655	1,684	873	218	217	406	915	2,077	3,966	7,287	3,192
Above Normal (25%)	12,632	12,505	10,041	750	241	226	362	689	2,087	4,822	8,228	6,200
Below Normal (6%)	5,935	6,276	8,651	4,291	927	502	965	1,352	2,946	7,353	10,221	12,961
Dry (13%)	6,261	6,944	6,848	5,180	3,599	1,968	2,134	3,765	5,917	8,640	10,192	13,005
Critical (25%)	10,625	10,402	10,424	6,074	5,188	4,496	4,749	6,889	9,388	11,749	12,342	13,720

Alternative 4A (ELT) minus No Action Alternative (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-904	-765	-665	**378**	-790	-394	-153	-37	-23	**1,318**	**1,018**	**340**
20%	-1,917	-2,179	**82**	-2,181	-195	**42**	**99**	**32**	-99	**1,114**	**611**	**99**
30%	-1,719	-2,642	**257**	-1,671	-602	-255	**331**	-191	-265	**548**	**865**	**643**
40%	-1,594	-1,075	**502**	-1,058	-948	**481**	**27**	-32	-146	**167**	**562**	**600**
50%	-2,196	-1,717	-980	-786	-301	**274**	**91**	**69**	-270	**230**	**1,531**	**1,230**
60%	-609	-442	-937	-1,276	-39	**49**	**8**	-42	-468	**1,154**	**824**	**1,780**
70%	-332	-487	-190	**151**	**22**	**23**	**1**	-8	-1,010	-228	**176**	**60**
80%	-75	-97	-777	**15**	**9**	**14**	-12	0	-880	**238**	**185**	**156**
90%	-17	-7	-5	**11**	**7**	**4**	**18**	-10	-456	-32	**1,312**	**95**
Long Term												
Full Simulation Period[a]	-959	-969	-265	-689	-361	**9**	**49**	-22	-350	**407**	**792**	**458**
Water Year Types[b]												
Wet (31%)	-929	-1,310	-387	-138	**11**	**6**	0	-13	-581	**359**	**842**	**103**
Above Normal (25%)	-1,485	-1,122	**212**	**136**	**21**	**22**	**15**	-9	-932	-836	-166	**60**
Below Normal (6%)	-609	-319	**593**	-187	-114	**49**	**27**	-6	-85	**136**	**559**	**270**
Dry (13%)	-487	-238	-517	-1,173	-251	**172**	**206**	-28	-287	**477**	**1,306**	**1,375**
Critical (25%)	-1,222	-1,349	-326	-1,172	-949	-132	-20	-34	-37	**940**	**770**	**207**

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-77-7. Sacramento River at Mallard Slough, Monthly EC

No Action Alternative (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,950	15,061	13,134	8,321	7,594	5,543	5,190	7,132	9,715	11,037	11,651	13,575
20%	14,159	14,232	12,131	8,203	5,921	3,672	4,390	6,158	7,730	9,819	11,521	13,447
30%	13,560	14,163	9,830	6,675	3,904	2,741	2,634	4,933	7,164	9,277	10,258	12,675
40%	13,279	12,310	8,058	5,638	3,499	1,320	2,132	4,212	6,313	8,734	9,662	12,412
50%	13,188	10,131	7,651	4,353	2,143	1,266	1,336	3,078	5,908	7,926	8,677	11,693
60%	6,545	6,595	7,349	3,427	966	453	848	2,263	4,641	6,200	8,528	10,719
70%	4,459	5,102	6,142	1,290	222	225	585	1,206	3,736	5,658	8,394	6,140
80%	3,010	3,516	2,509	313	213	202	403	953	3,031	4,788	8,050	3,871
90%	2,948	1,854	202	212	208	201	212	327	2,184	4,520	6,866	3,267
Long Term												
Full Simulation Period[a]	9,524	9,075	7,451	4,462	3,024	2,002	2,176	3,516	5,728	7,479	9,102	9,463
Water Year Types[b]												
Wet (31%)	7,846	5,965	2,071	1,011	206	211	406	928	2,658	3,607	6,445	3,090
Above Normal (25%)	14,117	13,627	9,830	614	220	204	347	698	3,019	5,658	8,394	6,140
Below Normal (6%)	6,545	6,595	8,058	4,478	1,041	453	938	1,358	3,031	7,217	9,662	12,691
Dry (13%)	6,747	7,182	7,365	6,352	3,849	1,796	1,928	3,793	6,204	8,163	8,886	11,629
Critical (25%)	11,847	11,752	10,750	7,246	6,137	4,629	4,769	6,923	9,425	10,809	11,572	13,513

Alternative 5A (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,718	14,937	12,905	8,532	7,215	5,266	4,902	6,936	9,420	11,992	12,098	13,275
20%	14,056	13,885	12,088	7,021	5,150	3,564	4,176	5,846	7,278	9,731	11,410	12,766
30%	13,804	13,742	10,072	5,832	3,924	2,762	2,827	4,602	6,553	8,682	9,738	12,659
40%	13,381	13,597	8,138	5,281	3,567	1,530	2,053	3,848	5,787	8,346	9,390	12,195
50%	13,310	11,148	7,501	4,289	2,087	1,329	1,338	3,126	5,508	7,376	8,631	11,638
60%	6,130	5,908	6,946	3,958	1,016	467	913	2,171	4,614	5,919	8,282	10,969
70%	4,146	4,779	5,763	1,361	223	222	674	1,264	3,698	5,488	7,979	5,741
80%	2,667	3,227	2,715	304	217	206	419	1,089	2,874	4,929	7,703	3,587
90%	2,619	1,659	210	217	212	202	217	348	2,332	4,667	6,811	3,058
Long Term												
Full Simulation Period[a]	9,368	9,049	7,345	4,319	2,941	1,979	2,141	3,403	5,476	7,386	8,962	9,253
Water Year Types[b]												
Wet (31%)	7,781	6,008	2,185	1,147	208	210	427	999	2,653	3,708	6,391	2,871
Above Normal (25%)	14,368	14,369	10,072	672	223	206	386	809	3,202	5,488	7,979	5,741
Below Normal (6%)	6,130	5,794	7,790	4,300	1,016	467	939	1,393	2,721	6,644	9,390	12,690
Dry (13%)	6,377	6,947	7,198	5,555	3,454	1,885	2,053	3,561	5,675	7,726	8,679	11,718
Critical (25%)	11,680	11,685	10,411	7,329	6,188	4,481	4,524	6,640	9,034	10,965	11,552	13,104

Alternative 5A (ELT) minus No Action Alternative (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-232	-125	-229	211	-379	-277	-288	-196	-294	955	447	-300
20%	-103	-347	-43	-1,182	-771	-108	-214	-312	-452	-88	-111	-681
30%	243	-421	242	-843	20	21	193	-332	-611	-595	-520	-15
40%	102	1,287	80	-357	69	210	-79	-364	-526	-388	-272	-216
50%	123	1,016	-150	-64	-55	62	3	48	-400	-549	-46	-55
60%	-415	-686	-403	531	50	13	65	-92	-27	-281	-246	250
70%	-313	-324	-379	71	1	-2	89	58	-38	-171	-415	-399
80%	-342	-289	205	-10	4	4	16	137	-157	141	-347	-283
90%	-328	-195	8	5	4	1	5	20	149	147	-55	-209
Long Term												
Full Simulation Period[a]	-156	-26	-105	-143	-83	-23	-35	-113	-252	-93	-140	-210
Water Year Types[b]												
Wet (31%)	-65	43	114	136	2	-1	21	71	-5	100	-54	-218
Above Normal (25%)	251	742	242	58	3	3	39	110	184	-171	-415	-399
Below Normal (6%)	-415	-801	-267	-178	-25	13	0	35	-310	-574	-272	-1
Dry (13%)	-371	-235	-167	-798	-395	89	125	-233	-529	-437	-207	89
Critical (25%)	-167	-66	-338	84	51	-147	-245	-282	-391	156	-20	-410

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

C.78. Sacramento River at Port Chicago Salinity

Table C-78-1. Sacramento River at Port Chicago, Monthly EC

Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	18,815	18,574	17,499	15,770	13,955	9,056	9,795	12,210	15,475	16,881	17,176	18,249
20%	18,380	18,236	17,360	13,964	11,874	8,135	8,796	11,387	13,854	16,043	16,859	18,138
30%	18,197	18,091	17,241	12,325	8,545	5,808	6,638	10,935	12,609	14,928	15,990	17,741
40%	18,173	17,881	16,230	9,256	8,381	3,616	5,121	8,000	11,040	13,982	15,459	17,090
50%	17,671	17,702	14,838	8,312	3,853	2,455	3,644	6,969	10,882	13,913	14,774	16,849
60%	16,983	17,360	13,905	7,663	1,848	1,165	2,912	5,350	8,978	11,769	14,185	16,550
70%	16,453	14,476	12,998	3,136	550	570	2,085	3,374	7,058	10,449	13,572	16,215
80%	16,331	9,405	4,859	696	258	252	1,371	2,963	6,195	9,527	13,315	15,732
90%	8,416	4,642	225	247	212	207	296	986	3,667	8,451	12,975	11,997
Long Term												
Full Simulation Period[a]	15,823	14,375	12,268	8,003	5,739	3,899	4,746	6,954	9,789	12,441	14,393	15,681
Water Year Types[b]												
Wet (31%)	11,574	7,489	3,635	2,094	346	372	1,167	2,229	4,649	7,361	10,812	10,792
Above Normal (25%)	18,544	17,592	14,803	1,338	299	258	1,063	2,468	5,483	9,335	13,397	15,803
Below Normal (6%)	16,508	17,360	17,443	9,256	1,848	1,165	3,081	3,377	7,275	11,769	14,185	17,090
Dry (13%)	17,107	15,626	13,845	11,413	8,333	3,972	4,980	8,107	11,265	14,108	15,151	16,912
Critical (25%)	16,969	16,998	15,863	12,418	10,932	8,665	9,228	12,322	14,944	16,548	17,092	18,278

No Action Alternative (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	19,408	19,275	18,177	14,287	13,065	11,001	10,624	12,268	15,224	16,420	17,242	18,623
20%	18,858	18,766	17,446	13,731	11,477	8,818	9,672	11,897	13,352	15,711	16,939	18,586
30%	18,451	18,705	15,283	12,278	8,938	6,449	7,090	10,293	12,778	14,776	15,987	17,939
40%	18,205	17,549	13,467	9,315	8,263	4,055	5,556	9,084	11,838	14,378	15,512	17,788
50%	18,094	14,449	13,433	8,669	5,579	3,286	4,522	7,623	11,377	13,510	14,841	17,057
60%	11,926	11,692	12,868	7,640	2,448	1,772	3,441	6,281	9,842	12,073	14,204	16,444
70%	9,587	9,311	11,361	3,208	575	695	2,381	4,195	8,454	11,089	14,148	11,922
80%	7,588	7,538	7,010	648	255	301	1,559	3,749	7,580	10,203	14,056	8,434
90%	7,481	4,755	298	289	241	227	390	1,217	5,787	9,662	12,596	7,981
Long Term												
Full Simulation Period[a]	14,259	13,105	11,732	7,907	5,915	4,401	5,190	7,323	10,473	12,737	14,765	14,596
Water Year Types[b]												
Wet (31%)	12,474	8,202	3,701	2,122	359	433	1,356	2,789	5,986	8,007	11,808	7,639
Above Normal (25%)	18,748	18,281	14,976	1,273	328	306	1,270	2,784	7,386	11,089	14,148	11,922
Below Normal (6%)	11,926	11,757	13,467	8,067	2,448	1,772	3,564	4,532	7,580	12,661	15,512	17,907
Dry (13%)	11,560	11,659	12,478	11,520	8,445	4,759	5,608	8,615	11,727	13,843	14,951	17,087
Critical (25%)	16,519	16,384	15,916	12,267	11,264	9,452	9,817	12,292	14,873	16,310	17,081	18,576

No Action Alternative (ELT) minus Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	593	700	679	-1,483	-889	1,945	829	57	-250	-461	66	374
20%	478	530	86	-233	-396	684	875	510	-502	-332	80	448
30%	254	613	-1,957	-48	392	641	452	-641	169	-152	-3	198
40%	32	-332	-2,762	60	-118	439	436	1,083	798	396	53	697
50%	424	-3,253	-1,405	357	1,726	832	878	655	496	-404	67	208
60%	-5,056	-5,668	-1,037	-23	600	607	529	931	864	304	19	-106
70%	-6,866	-5,165	-1,637	72	25	125	295	821	1,396	640	576	-4,293
80%	-8,743	-1,867	2,151	-48	-2	49	188	787	1,386	676	741	-7,298
90%	-936	113	73	42	29	20	95	231	2,120	1,211	-379	-4,017
Long Term												
Full Simulation Period[a]	-1,564	-1,270	-535	-96	176	502	444	369	684	296	372	-1,086
Water Year Types[b]												
Wet (31%)	899	713	66	28	14	60	189	559	1,337	646	995	-3,153
Above Normal (25%)	204	689	174	-65	29	48	207	316	1,903	1,755	751	-3,880
Below Normal (6%)	-4,582	-5,603	-3,976	-1,189	600	607	483	1,156	306	892	1,328	816
Dry (13%)	-5,547	-3,968	-1,366	106	112	787	628	508	461	-265	-199	174
Critical (25%)	-451	-614	53	-151	332	787	589	-30	-71	-238	-11	298

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

Table C-78-2. Sacramento River at Port Chicago, Monthly EC

Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	18,815	18,574	17,499	15,770	13,955	9,056	9,795	12,210	15,475	16,881	17,176	18,249
20%	18,380	18,236	17,360	13,964	11,874	8,135	8,796	11,387	13,854	16,043	16,859	18,138
30%	18,197	18,091	17,241	12,325	8,545	5,808	6,638	10,935	12,609	14,928	15,990	17,741
40%	18,173	17,881	16,230	9,256	8,381	3,616	5,121	8,000	11,040	13,982	15,459	17,090
50%	17,671	17,702	14,838	8,312	3,853	2,455	3,644	6,969	10,882	13,913	14,774	16,849
60%	16,983	17,360	13,905	7,663	1,848	1,165	2,912	5,350	8,978	11,769	14,185	16,550
70%	16,453	14,476	12,998	3,136	550	570	2,085	3,374	7,058	10,449	13,572	16,215
80%	16,331	9,405	4,859	696	258	252	1,371	2,963	6,195	9,527	13,315	15,732
90%	8,416	4,642	225	247	212	207	296	986	3,667	8,451	12,975	11,997
Long Term												
Full Simulation Period[a]	15,823	14,375	12,268	8,003	5,739	3,899	4,746	6,954	9,789	12,441	14,393	15,681
Water Year Types[b]												
Wet (31%)	11,574	7,489	3,635	2,094	346	372	1,167	2,229	4,649	7,361	10,812	10,792
Above Normal (25%)	18,544	17,592	14,803	1,338	299	258	1,063	2,468	5,483	9,335	13,397	15,803
Below Normal (6%)	16,508	17,360	17,443	9,256	1,848	1,165	3,081	3,377	7,275	11,769	14,185	17,090
Dry (13%)	17,107	15,626	13,845	11,413	8,333	3,972	4,980	8,107	11,265	14,108	15,151	16,912
Critical (25%)	16,969	16,998	15,863	12,418	10,932	8,665	9,228	12,322	14,944	16,548	17,092	18,278

Alternative 2D (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	18,207	18,200	17,138	14,140	11,850	10,014	10,025	12,381	15,147	17,264	17,622	18,381
20%	17,205	16,848	16,612	11,597	10,429	8,713	9,418	11,429	12,824	15,195	16,853	18,146
30%	16,960	16,449	14,988	10,433	8,119	6,246	7,197	9,631	11,921	14,747	15,841	17,852
40%	16,493	15,872	13,130	8,173	6,804	4,376	5,961	8,575	10,495	13,731	15,764	17,660
50%	15,867	13,142	11,985	7,300	5,398	3,641	4,745	7,455	10,207	12,723	15,273	17,486
60%	10,825	10,955	11,595	5,858	2,424	1,774	3,619	6,207	9,752	11,155	13,733	16,643
70%	8,825	7,906	10,947	3,558	518	622	2,859	4,358	6,997	10,236	13,486	11,473
80%	7,185	6,791	5,090	627	284	275	1,667	3,732	6,132	9,649	13,407	8,120
90%	7,085	4,167	265	275	244	227	403	1,323	4,970	9,159	13,233	7,600
Long Term												
Full Simulation Period[a]	13,088	11,901	11,016	7,026	5,354	4,285	5,217	7,171	9,679	12,372	14,769	14,413
Water Year Types[b]												
Wet (31%)	11,232	6,750	3,220	2,010	344	397	1,429	2,860	5,340	7,931	12,042	7,284
Above Normal (25%)	17,313	17,084	14,849	1,531	321	292	1,477	3,044	5,855	9,509	13,414	11,473
Below Normal (6%)	10,825	11,039	13,407	7,370	2,424	1,774	3,619	4,515	7,085	12,071	15,379	17,660
Dry (13%)	10,671	10,921	11,345	9,626	7,713	4,944	5,899	8,131	10,547	13,189	15,093	17,434
Critical (25%)	15,268	14,905	14,980	11,088	10,073	8,967	9,518	12,034	14,505	16,476	17,111	18,225

Alternative 2D (ELT) minus Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-608	-374	-361	-1,630	-2,105	**958**	**230**	**170**	-327	**383**	**446**	**132**
20%	-1,175	-1,388	-748	-2,367	-1,445	**579**	**622**	**42**	-1,030	-848	-7	**8**
30%	-1,237	-1,642	-2,253	-1,892	-427	**438**	**560**	-1,304	-688	-182	-149	**111**
40%	-1,680	-2,009	-3,100	-1,083	-1,578	**760**	**840**	**575**	-545	-252	**305**	**569**
50%	-1,803	-4,559	-2,853	-1,012	**1,546**	**1,186**	**1,101**	**486**	-675	-1,190	**499**	**637**
60%	-6,158	-6,405	-2,311	-1,804	**576**	**609**	**706**	**857**	**774**	-614	-452	**93**
70%	-7,628	-6,570	-2,052	**422**	-33	**53**	**774**	**984**	-61	-213	-86	-4,743
80%	-9,146	-2,614	**231**	-69	**26**	**23**	**296**	**769**	-63	**121**	**92**	-7,612
90%	-1,331	-474	**41**	**28**	**32**	**20**	**107**	**337**	**1,303**	**708**	**257**	-4,397
Long Term												
Full Simulation Period[a]	-2,735	-2,474	-1,251	-977	-385	**386**	**471**	**217**	-109	-69	**376**	-1,269
Water Year Types[b]												
Wet (31%)	-343	-739	-415	-84	-2	**24**	**262**	**631**	**690**	**570**	**1,229**	-3,507
Above Normal (25%)	-1,230	-507	**46**	**193**	**22**	**35**	**414**	**576**	**372**	**174**	**16**	-4,330
Below Normal (6%)	-5,683	-6,321	-4,036	-1,886	**576**	**609**	**538**	**1,139**	-190	**302**	**1,194**	**569**
Dry (13%)	-6,436	-4,705	-2,500	-1,788	-620	**972**	**919**	**25**	-718	-918	-57	**522**
Critical (25%)	-1,701	-2,093	-883	-1,330	-859	**302**	**290**	-288	-438	-72	**19**	-53

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-78-3. Sacramento River at Port Chicago, Monthly EC

Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	18,815	18,574	17,499	15,770	13,955	9,056	9,795	12,210	15,475	16,881	17,176	18,249
20%	18,380	18,236	17,360	13,964	11,874	8,135	8,796	11,387	13,854	16,043	16,859	18,138
30%	18,197	18,091	17,241	12,325	8,545	5,808	6,638	10,935	12,609	14,928	15,990	17,741
40%	18,173	17,881	16,230	9,256	8,381	3,616	5,121	8,000	11,040	13,982	15,459	17,090
50%	17,671	17,702	14,838	8,312	3,853	2,455	3,644	6,969	10,882	13,913	14,774	16,849
60%	16,983	17,360	13,905	7,663	1,848	1,165	2,912	5,350	8,978	11,769	14,185	16,550
70%	16,453	14,476	12,998	3,136	550	570	2,085	3,374	7,058	10,449	13,572	16,215
80%	16,331	9,405	4,859	696	258	252	1,371	2,963	6,195	9,527	13,315	15,732
90%	8,416	4,642	225	247	212	207	296	986	3,667	8,451	12,975	11,997
Long Term												
Full Simulation Period[a]	15,823	14,375	12,268	8,003	5,739	3,899	4,746	6,954	9,789	12,441	14,393	15,681
Water Year Types[b]												
Wet (31%)	11,574	7,489	3,635	2,094	346	372	1,167	2,229	4,649	7,361	10,812	10,792
Above Normal (25%)	18,544	17,592	14,803	1,338	299	258	1,063	2,468	5,483	9,335	13,397	15,803
Below Normal (6%)	16,508	17,360	17,443	9,256	1,848	1,165	3,081	3,377	7,275	11,769	14,185	17,090
Dry (13%)	17,107	15,626	13,845	11,413	8,333	3,972	4,980	8,107	11,265	14,108	15,151	16,912
Critical (25%)	16,969	16,998	15,863	12,418	10,932	8,665	9,228	12,322	14,944	16,548	17,092	18,278

Alternative 4A (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	18,821	18,853	17,590	14,702	12,407	10,467	10,431	12,236	15,186	17,551	18,050	18,942
20%	17,447	17,019	17,423	11,378	10,916	8,843	9,800	11,919	13,346	16,084	17,516	18,624
30%	17,239	16,653	15,237	10,264	7,758	6,528	7,585	10,085	12,427	15,162	16,735	18,431
40%	17,087	16,380	13,511	8,352	7,039	4,579	5,944	9,069	11,656	14,362	16,131	18,308
50%	16,383	13,645	12,142	7,382	5,673	3,807	4,666	7,675	11,066	13,841	15,979	18,113
60%	11,317	11,423	12,055	6,321	2,366	1,968	3,440	6,282	9,256	12,682	15,299	17,729
70%	9,149	8,156	11,399	3,626	605	705	2,396	4,190	7,141	10,809	14,164	11,946
80%	7,637	7,197	5,644	720	275	310	1,540	3,753	6,269	10,128	13,983	8,626
90%	7,479	4,692	305	304	251	236	401	1,203	5,112	9,632	13,886	8,058
Long Term												
Full Simulation Period[a]	13,545	12,278	11,361	7,166	5,500	4,477	5,287	7,300	10,008	13,000	15,456	14,975
Water Year Types[b]												
Wet (31%)	11,826	7,066	3,243	1,981	369	436	1,352	2,769	5,222	8,417	12,709	7,741
Above Normal (25%)	17,608	17,300	14,997	1,504	360	323	1,274	2,774	6,017	9,977	13,886	11,946
Below Normal (6%)	11,317	11,606	13,990	7,732	2,366	1,968	3,643	4,521	7,507	12,682	15,831	18,095
Dry (13%)	11,168	11,417	11,827	10,063	8,048	5,186	5,983	8,600	11,394	14,168	16,042	18,180
Critical (25%)	15,641	15,262	15,502	11,149	10,249	9,307	9,812	12,252	14,825	17,003	17,737	18,786

Alternative 4A (ELT) minus Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	6	279	91	-1,067	-1,547	1,412	636	26	-289	670	874	693
20%	-933	-1,217	63	-2,586	-958	708	1,004	532	-508	41	656	486
30%	-958	-1,438	-2,004	-2,061	-788	720	948	-850	-182	234	745	690
40%	-1,086	-1,501	-2,719	-904	-1,342	963	823	1,068	616	380	672	1,217
50%	-1,287	-4,056	-2,697	-930	1,820	1,353	1,022	706	184	-73	1,205	1,263
60%	-5,666	-5,937	-1,850	-1,342	518	802	528	932	278	913	1,115	1,179
70%	-7,305	-6,320	-1,599	490	55	135	311	816	83	360	592	-4,269
80%	-8,694	-2,209	785	25	17	59	169	790	74	601	667	-7,106
90%	-937	50	80	56	39	29	106	217	1,445	1,181	911	-3,940
Long Term												
Full Simulation Period[a]	-2,278	-2,096	-907	-837	-239	578	541	346	219	559	1,062	-706
Water Year Types[b]												
Wet (31%)	251	-423	-393	-113	24	63	184	540	573	1,056	1,896	-3,050
Above Normal (25%)	-936	-292	194	166	61	65	212	305	534	642	489	-3,857
Below Normal (6%)	-5,191	-5,754	-3,453	-1,524	518	802	562	1,145	232	913	1,647	1,004
Dry (13%)	-5,939	-4,209	-2,018	-1,351	-285	1,214	1,002	493	128	61	891	1,268
Critical (25%)	-1,328	-1,736	-361	-1,269	-683	642	584	-70	-119	455	645	507

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-78-4. Sacramento River at Port Chicago, Monthly EC

Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	18,815	18,574	17,499	15,770	13,955	9,056	9,795	12,210	15,475	16,881	17,176	18,249
20%	18,380	18,236	17,360	13,964	11,874	8,135	8,796	11,387	13,854	16,043	16,859	18,138
30%	18,197	18,091	17,241	12,325	8,545	5,808	6,638	10,935	12,609	14,928	15,990	17,741
40%	18,173	17,881	16,230	9,256	8,381	3,616	5,121	8,000	11,040	13,982	15,459	17,090
50%	17,671	17,702	14,838	8,312	3,853	2,455	3,644	6,969	10,882	13,913	14,774	16,849
60%	16,983	17,360	13,905	7,663	1,848	1,165	2,912	5,350	8,978	11,769	14,185	16,550
70%	16,453	14,476	12,998	3,136	550	570	2,085	3,374	7,058	10,449	13,572	16,215
80%	16,331	9,405	4,859	696	258	252	1,371	2,963	6,195	9,527	13,315	15,732
90%	8,416	4,642	225	247	212	207	296	986	3,667	8,451	12,975	11,997
Long Term												
Full Simulation Period[a]	15,823	14,375	12,268	8,003	5,739	3,899	4,746	6,954	9,789	12,441	14,393	15,681
Water Year Types[b]												
Wet (31%)	11,574	7,489	3,635	2,094	346	372	1,167	2,229	4,649	7,361	10,812	10,792
Above Normal (25%)	18,544	17,592	14,803	1,338	299	258	1,063	2,468	5,483	9,335	13,397	15,803
Below Normal (6%)	16,508	17,360	17,443	9,256	1,848	1,165	3,081	3,377	7,275	11,769	14,185	17,090
Dry (13%)	17,107	15,626	13,845	11,413	8,333	3,972	4,980	8,107	11,265	14,108	15,151	16,912
Critical (25%)	16,969	16,998	15,863	12,418	10,932	8,665	9,228	12,322	14,944	16,548	17,092	18,278

Alternative 5A (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	19,184	19,234	17,926	14,084	12,639	10,663	10,276	12,022	14,905	17,176	17,516	18,324
20%	18,603	18,435	17,429	12,600	10,497	8,666	9,388	11,511	12,859	15,155	16,867	18,045
30%	18,506	18,366	15,534	11,463	8,962	6,519	7,339	9,893	12,075	14,189	15,465	17,724
40%	18,296	18,271	13,651	9,350	8,365	4,501	5,582	8,643	11,215	13,924	15,154	17,528
50%	18,176	14,683	13,037	8,943	5,667	3,357	4,510	7,716	10,874	12,880	14,724	17,072
60%	11,482	11,042	12,412	7,829	2,402	1,784	3,567	6,117	9,817	11,686	13,954	16,508
70%	9,165	9,407	10,906	3,357	509	611	2,611	4,402	8,432	10,877	13,702	11,438
80%	7,179	7,500	7,266	619	271	273	1,611	3,942	7,122	10,147	13,577	8,057
90%	6,987	4,279	276	262	228	219	374	1,275	6,152	9,929	12,540	7,563
Long Term												
Full Simulation Period[a]	14,013	12,999	11,592	7,761	5,814	4,376	5,175	7,211	10,193	12,562	14,579	14,316
Water Year Types[b]												
Wet (31%)	12,252	8,146	3,779	2,328	333	395	1,396	2,898	6,002	8,088	11,746	7,243
Above Normal (25%)	18,862	18,837	15,171	1,347	310	275	1,359	3,072	7,653	10,877	13,661	11,438
Below Normal (6%)	11,482	11,042	13,086	7,829	2,402	1,784	3,574	4,606	7,122	12,005	15,154	17,749
Dry (13%)	11,128	11,381	12,280	10,631	8,040	4,913	5,825	8,315	11,089	13,346	14,704	17,089
Critical (25%)	16,298	16,231	15,563	12,364	11,303	9,291	9,527	11,953	14,460	16,299	16,998	18,220

Alternative 5A (ELT) minus Existing Condition

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	369	660	427	-1,686	-1,316	1,607	481	-188	-569	296	340	75
20%	223	199	69	-1,364	-1,376	531	592	124	-995	-888	8	-93
30%	309	275	-1,706	-862	416	711	701	-1,042	-534	-739	-525	-16
40%	123	390	-2,579	94	-16	885	462	643	175	-59	-305	438
50%	506	-3,018	-1,802	630	1,814	902	866	747	-8	-1,033	-50	222
60%	-5,500	-6,318	-1,493	166	554	618	655	767	838	-83	-230	-41
70%	-7,289	-5,069	-2,093	221	-41	41	526	1,027	1,374	428	130	-4,778
80%	-9,152	-1,906	2,407	-77	13	22	240	979	927	620	262	-7,675
90%	-1,429	-362	52	15	16	12	78	290	2,485	1,478	-436	-4,435
Long Term												
Full Simulation Period[a]	-1,809	-1,376	-675	-242	75	477	430	257	405	121	186	-1,366
Water Year Types[b]												
Wet (31%)	677	657	144	233	-12	23	228	669	1,353	727	933	-3,548
Above Normal (25%)	318	1,245	368	9	11	17	296	604	2,170	1,543	264	-4,365
Below Normal (6%)	-5,026	-6,318	-4,357	-1,427	554	618	493	1,229	-152	236	969	659
Dry (13%)	-5,979	-4,245	-1,565	-782	-293	941	845	209	-177	-762	-447	177
Critical (25%)	-671	-767	-300	-54	371	626	299	-369	-484	-249	-94	-58

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-78-5. Sacramento River at Port Chicago, Monthly EC

No Action Alternative (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	19,408	19,275	18,177	14,287	13,065	11,001	10,624	12,268	15,224	16,420	17,242	18,623
20%	18,858	18,766	17,446	13,731	11,477	8,818	9,672	11,897	13,352	15,711	16,939	18,586
30%	18,451	18,705	15,283	12,278	8,938	6,449	7,090	10,293	12,778	14,776	15,987	17,939
40%	18,205	17,549	13,467	9,315	8,263	4,055	5,556	9,084	11,838	14,378	15,512	17,788
50%	18,094	14,449	13,433	8,669	5,579	3,286	4,522	7,623	11,377	13,510	14,841	17,057
60%	11,926	11,692	12,868	7,640	2,448	1,772	3,441	6,281	9,842	12,073	14,204	16,444
70%	9,587	9,311	11,361	3,208	575	695	2,381	4,195	8,454	11,089	14,148	11,922
80%	7,588	7,538	7,010	648	255	301	1,559	3,749	7,580	10,203	14,056	8,434
90%	7,481	4,755	298	289	241	227	390	1,217	5,787	9,662	12,596	7,981
Long Term												
Full Simulation Period[a]	14,259	13,105	11,732	7,907	5,915	4,401	5,190	7,323	10,473	12,737	14,765	14,596
Water Year Types[b]												
Wet (31%)	12,474	8,202	3,701	2,122	359	433	1,356	2,789	5,986	8,007	11,808	7,639
Above Normal (25%)	18,748	18,281	14,976	1,273	328	306	1,270	2,784	7,386	11,089	14,148	11,922
Below Normal (6%)	11,926	11,757	13,467	8,067	2,448	1,772	3,564	4,532	7,580	12,661	15,512	17,907
Dry (13%)	11,560	11,659	12,478	11,520	8,445	4,759	5,608	8,615	11,727	13,843	14,951	17,087
Critical (25%)	16,519	16,384	15,916	12,267	11,264	9,452	9,817	12,292	14,873	16,310	17,081	18,576

Alternative 2D (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	18,207	18,200	17,138	14,140	11,850	10,014	10,025	12,381	15,147	17,264	17,622	18,381
20%	17,205	16,848	16,612	11,597	10,429	8,713	9,418	11,429	12,824	15,195	16,853	18,146
30%	16,960	16,449	14,988	10,433	8,119	6,246	7,197	9,631	11,921	14,747	15,841	17,852
40%	16,493	15,872	13,130	8,173	6,804	4,376	5,961	8,575	10,495	13,731	15,764	17,660
50%	15,867	13,142	11,985	7,300	5,398	3,641	4,745	7,455	10,207	12,723	15,273	17,486
60%	10,825	10,955	11,595	5,858	2,424	1,774	3,619	6,207	9,752	11,155	13,733	16,643
70%	8,825	7,906	10,947	3,558	518	622	2,859	4,358	6,997	10,236	13,486	11,473
80%	7,185	6,791	5,090	627	284	275	1,667	3,732	6,132	9,649	13,407	8,120
90%	7,085	4,167	265	275	244	227	403	1,323	4,970	9,159	13,233	7,600
Long Term												
Full Simulation Period[a]	13,088	11,901	11,016	7,026	5,354	4,285	5,217	7,171	9,679	12,372	14,769	14,413
Water Year Types[b]												
Wet (31%)	11,232	6,750	3,220	2,010	344	397	1,429	2,860	5,340	7,931	12,042	7,284
Above Normal (25%)	17,313	17,084	14,849	1,531	321	292	1,477	3,044	5,855	9,509	13,414	11,473
Below Normal (6%)	10,825	11,039	13,407	7,370	2,424	1,774	3,619	4,515	7,085	12,071	15,379	17,660
Dry (13%)	10,671	10,921	11,345	9,626	7,713	4,944	5,899	8,131	10,547	13,189	15,093	17,434
Critical (25%)	15,268	14,905	14,980	11,088	10,073	8,967	9,518	12,034	14,505	16,476	17,111	18,225

Alternative 2D (ELT) minus No Action Alternative (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,201	-1,075	-1,039	-147	-1,215	-987	-599	113	-77	844	380	-242
20%	-1,653	-1,918	-834	-2,134	-1,048	-105	-253	-468	-528	-516	-86	-440
30%	-1,492	-2,255	-296	-1,845	-819	-203	107	-662	-857	-29	-146	-87
40%	-1,712	-1,677	-337	-1,142	-1,460	321	404	-508	-1,342	-648	251	-128
50%	-2,227	-1,307	-1,448	-1,369	-181	355	223	-169	-1,171	-787	431	429
60%	-1,101	-737	-1,273	-1,782	-25	2	177	-75	-90	-918	-471	199
70%	-762	-1,405	-414	349	-57	-73	478	163	-1,457	-854	-662	-450
80%	-403	-747	-1,920	-21	29	-26	108	-18	-1,448	-555	-649	-314
90%	-396	-588	-32	-14	3	-1	12	106	-817	-503	637	-381
Long Term												
Full Simulation Period[a]	-1,172	-1,204	-716	-881	-562	-116	27	-152	-794	-365	3	-183
Water Year Types[b]												
Wet (31%)	-1,242	-1,452	-481	-112	-16	-36	73	72	-647	-76	234	-355
Above Normal (25%)	-1,434	-1,197	-127	258	-7	-13	207	261	-1,531	-1,580	-734	-450
Below Normal (6%)	-1,101	-718	-60	-697	-25	2	55	-17	-495	-590	-133	-247
Dry (13%)	-889	-737	-1,134	-1,894	-732	184	291	-483	-1,179	-654	142	347
Critical (25%)	-1,250	-1,479	-936	-1,178	-1,191	-485	-299	-258	-367	165	31	-351

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-78-6. Sacramento River at Port Chicago, Monthly EC

No Action Alternative (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	19,408	19,275	18,177	14,287	13,065	11,001	10,624	12,268	15,224	16,420	17,242	18,623
20%	18,858	18,766	17,446	13,731	11,477	8,818	9,672	11,897	13,352	15,711	16,939	18,586
30%	18,451	18,705	15,283	12,278	8,938	6,449	7,090	10,293	12,778	14,776	15,987	17,939
40%	18,205	17,549	13,467	9,315	8,263	4,055	5,556	9,084	11,838	14,378	15,512	17,788
50%	18,094	14,449	13,433	8,669	5,579	3,286	4,522	7,623	11,377	13,510	14,841	17,057
60%	11,926	11,692	12,868	7,640	2,448	1,772	3,441	6,281	9,842	12,073	14,204	16,444
70%	9,587	9,311	11,361	3,208	575	695	2,381	4,195	8,454	11,089	14,148	11,922
80%	7,588	7,538	7,010	648	255	301	1,559	3,749	7,580	10,203	14,056	8,434
90%	7,481	4,755	298	289	241	227	390	1,217	5,787	9,662	12,596	7,981
Long Term												
Full Simulation Period[a]	14,259	13,105	11,732	7,907	5,915	4,401	5,190	7,323	10,473	12,737	14,765	14,596
Water Year Types[b]												
Wet (31%)	12,474	8,202	3,701	2,122	359	433	1,356	2,789	5,986	8,007	11,808	7,639
Above Normal (25%)	18,748	18,281	14,976	1,273	328	306	1,270	2,784	7,386	11,089	14,148	11,922
Below Normal (6%)	11,926	11,757	13,467	8,067	2,448	1,772	3,564	4,532	7,580	12,661	15,512	17,907
Dry (13%)	11,560	11,659	12,478	11,520	8,445	4,759	5,608	8,615	11,727	13,843	14,951	17,087
Critical (25%)	16,519	16,384	15,916	12,267	11,264	9,452	9,817	12,292	14,873	16,310	17,081	18,576

Alternative 4A (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	18,821	18,853	17,590	14,702	12,407	10,467	10,431	12,236	15,186	17,551	18,050	18,942
20%	17,447	17,019	17,423	11,378	10,916	8,843	9,800	11,919	13,346	16,084	17,516	18,624
30%	17,239	16,653	15,237	10,264	7,758	6,528	7,585	10,085	12,427	15,162	16,735	18,431
40%	17,087	16,380	13,511	8,352	7,039	4,579	5,944	9,069	11,656	14,362	16,131	18,308
50%	16,383	13,645	12,142	7,382	5,673	3,807	4,666	7,675	11,066	13,841	15,979	18,113
60%	11,317	11,423	12,055	6,321	2,366	1,968	3,440	6,282	9,256	12,682	15,299	17,729
70%	9,149	8,156	11,399	3,626	605	705	2,396	4,190	7,141	10,809	14,164	11,946
80%	7,637	7,197	5,644	720	275	310	1,540	3,753	6,269	10,128	13,983	8,626
90%	7,479	4,692	305	304	251	236	401	1,203	5,112	9,632	13,886	8,058
Long Term												
Full Simulation Period[a]	13,545	12,278	11,361	7,166	5,500	4,477	5,287	7,300	10,008	13,000	15,456	14,975
Water Year Types[b]												
Wet (31%)	11,826	7,066	3,243	1,981	369	436	1,352	2,769	5,222	8,417	12,709	7,741
Above Normal (25%)	17,608	17,300	14,997	1,504	360	323	1,274	2,774	6,017	9,977	13,886	11,946
Below Normal (6%)	11,317	11,606	13,990	7,732	2,366	1,968	3,643	4,521	7,507	12,682	15,831	18,095
Dry (13%)	11,168	11,417	11,827	10,063	8,048	5,186	5,983	8,600	11,394	14,168	16,042	18,180
Critical (25%)	15,641	15,262	15,502	11,149	10,249	9,307	9,812	12,252	14,825	17,003	17,737	18,786

Alternative 4A (ELT) minus No Action Alternative (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-587	-422	-587	415	-658	-534	-193	-31	-39	1,131	808	319
20%	-1,412	-1,748	-23	-2,353	-562	24	128	22	-6	374	577	38
30%	-1,212	-2,052	-46	-2,013	-1,180	80	496	-208	-352	386	748	492
40%	-1,118	-1,169	43	-963	-1,224	524	387	-15	-182	-16	618	520
50%	-1,711	-804	-1,292	-1,287	94	521	144	51	-312	331	1,138	1,055
60%	-610	-269	-813	-1,319	-83	195	-1	1	-586	610	1,096	1,285
70%	-439	-1,155	38	417	30	10	15	-5	-1,313	-280	16	24
80%	49	-342	-1,366	73	20	9	-19	3	-1,312	-75	-74	192
90%	-2	-63	7	15	10	8	11	-14	-675	-30	1,291	77
Long Term												
Full Simulation Period[a]	-715	-827	-372	-741	-415	77	96	-23	-465	263	690	379
Water Year Types[b]												
Wet (31%)	-648	-1,136	-459	-141	10	3	-4	-19	-764	410	901	102
Above Normal (25%)	-1,139	-981	21	231	32	17	4	-10	-1,369	-1,113	-261	24
Below Normal (6%)	-610	-151	523	-335	-83	195	79	-11	-74	22	319	188
Dry (13%)	-392	-242	-652	-1,457	-397	427	374	-15	-333	325	1,090	1,094
Critical (25%)	-877	-1,122	-414	-1,117	-1,015	-145	-5	-40	-48	693	656	210

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

Table C-78-7. Sacramento River at Port Chicago, Monthly EC

No Action Alternative (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	19,408	19,275	18,177	14,287	13,065	11,001	10,624	12,268	15,224	16,420	17,242	18,623
20%	18,858	18,766	17,446	13,731	11,477	8,818	9,672	11,897	13,352	15,711	16,939	18,586
30%	18,451	18,705	15,283	12,278	8,938	6,449	7,090	10,293	12,778	14,776	15,987	17,939
40%	18,205	17,549	13,467	9,315	8,263	4,055	5,556	9,084	11,838	14,378	15,512	17,788
50%	18,094	14,449	13,433	8,669	5,579	3,286	4,522	7,623	11,377	13,510	14,841	17,057
60%	11,926	11,692	12,868	7,640	2,448	1,772	3,441	6,281	9,842	12,073	14,204	16,444
70%	9,587	9,311	11,361	3,208	575	695	2,381	4,195	8,454	11,089	14,148	11,922
80%	7,588	7,538	7,010	648	255	301	1,559	3,749	7,580	10,203	14,056	8,434
90%	7,481	4,755	298	289	241	227	390	1,217	5,787	9,662	12,596	7,981
Long Term												
Full Simulation Period[a]	14,259	13,105	11,732	7,907	5,915	4,401	5,190	7,323	10,473	12,737	14,765	14,596
Water Year Types[b]												
Wet (31%)	12,474	8,202	3,701	2,122	359	433	1,356	2,789	5,986	8,007	11,808	7,639
Above Normal (25%)	18,748	18,281	14,976	1,273	328	306	1,270	2,784	7,386	11,089	14,148	11,922
Below Normal (6%)	11,926	11,757	13,467	8,067	2,448	1,772	3,564	4,532	7,580	12,661	15,512	17,907
Dry (13%)	11,560	11,659	12,478	11,520	8,445	4,759	5,608	8,615	11,727	13,843	14,951	17,087
Critical (25%)	16,519	16,384	15,916	12,267	11,264	9,452	9,817	12,292	14,873	16,310	17,081	18,576

Alternative 5A (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	19,184	19,234	17,926	14,084	12,639	10,663	10,276	12,022	14,905	17,176	17,516	18,324
20%	18,603	18,435	17,429	12,600	10,497	8,666	9,388	11,511	12,859	15,155	16,867	18,045
30%	18,506	18,366	15,534	11,463	8,962	6,519	7,339	9,893	12,075	14,189	15,465	17,724
40%	18,296	18,271	13,651	9,350	8,365	4,501	5,582	8,643	11,215	13,924	15,154	17,528
50%	18,176	14,683	13,037	8,943	5,667	3,357	4,510	7,716	10,874	12,880	14,724	17,072
60%	11,482	11,042	12,412	7,829	2,402	1,784	3,567	6,117	9,817	11,686	13,954	16,508
70%	9,165	9,407	10,906	3,357	509	611	2,611	4,402	8,432	10,877	13,702	11,438
80%	7,179	7,500	7,266	619	271	273	1,611	3,942	7,122	10,147	13,577	8,057
90%	6,987	4,279	276	262	228	219	374	1,275	6,152	9,929	12,540	7,563
Long Term												
Full Simulation Period[a]	14,013	12,999	11,592	7,761	5,814	4,376	5,175	7,211	10,193	12,562	14,579	14,316
Water Year Types[b]												
Wet (31%)	12,252	8,146	3,779	2,328	333	395	1,396	2,898	6,002	8,088	11,746	7,243
Above Normal (25%)	18,862	18,837	15,171	1,347	310	275	1,359	3,072	7,653	10,877	13,661	11,438
Below Normal (6%)	11,482	11,042	13,086	7,829	2,402	1,784	3,574	4,606	7,122	12,005	15,154	17,749
Dry (13%)	11,128	11,381	12,280	10,631	8,040	4,913	5,825	8,315	11,089	13,346	14,704	17,089
Critical (25%)	16,298	16,231	15,563	12,364	11,303	9,291	9,527	11,953	14,460	16,299	16,998	18,220

Alternative 5A (ELT) minus No Action Alternative (ELT)

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-224	-40	-252	-203	-427	-338	-348	-246	-319	**757**	**274**	-299
20%	-255	-331	-17	-1,131	-980	-152	-284	-386	-492	-556	-72	-541
30%	**55**	-339	**251**	-815	**24**	**71**	**249**	-401	-703	-587	-522	-214
40%	**91**	**722**	**184**	**34**	**102**	**446**	**26**	-441	-623	-455	-359	-259
50%	**82**	**234**	-397	**273**	**88**	**70**	-12	**92**	-504	-630	-117	**14**
60%	-444	-650	-455	**189**	-46	**11**	**126**	-165	-25	-387	-249	**64**
70%	-423	**96**	-455	**149**	-66	-84	**230**	**206**	-22	-212	-446	-485
80%	-409	-39	**256**	-29	**16**	-27	**52**	**193**	-458	-56	-479	-377
90%	-493	-476	-21	-27	-13	-9	-17	**58**	**364**	**267**	-56	-418
Long Term												
Full Simulation Period[a]	-246	-106	-140	-146	-101	-25	-15	-113	-280	-175	-186	-280
Water Year Types[b]												
Wet (31%)	-222	-56	**77**	**206**	-26	-38	**40**	**110**	**16**	**80**	-62	-396
Above Normal (25%)	**114**	**556**	**195**	**74**	-18	-31	**89**	**288**	**267**	-212	-487	-485
Below Normal (6%)	-444	-715	-382	-238	-46	**11**	**10**	**74**	-458	-656	-359	-157
Dry (13%)	-432	-278	-198	-888	-405	**153**	**217**	-299	-638	-497	-247	**3**
Critical (25%)	-221	-153	-353	**98**	**39**	-161	-290	-339	-413	-11	-83	-356

a Based on the 16-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Positive differences are highted in red color which indicate increase in Salinity (EC)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.