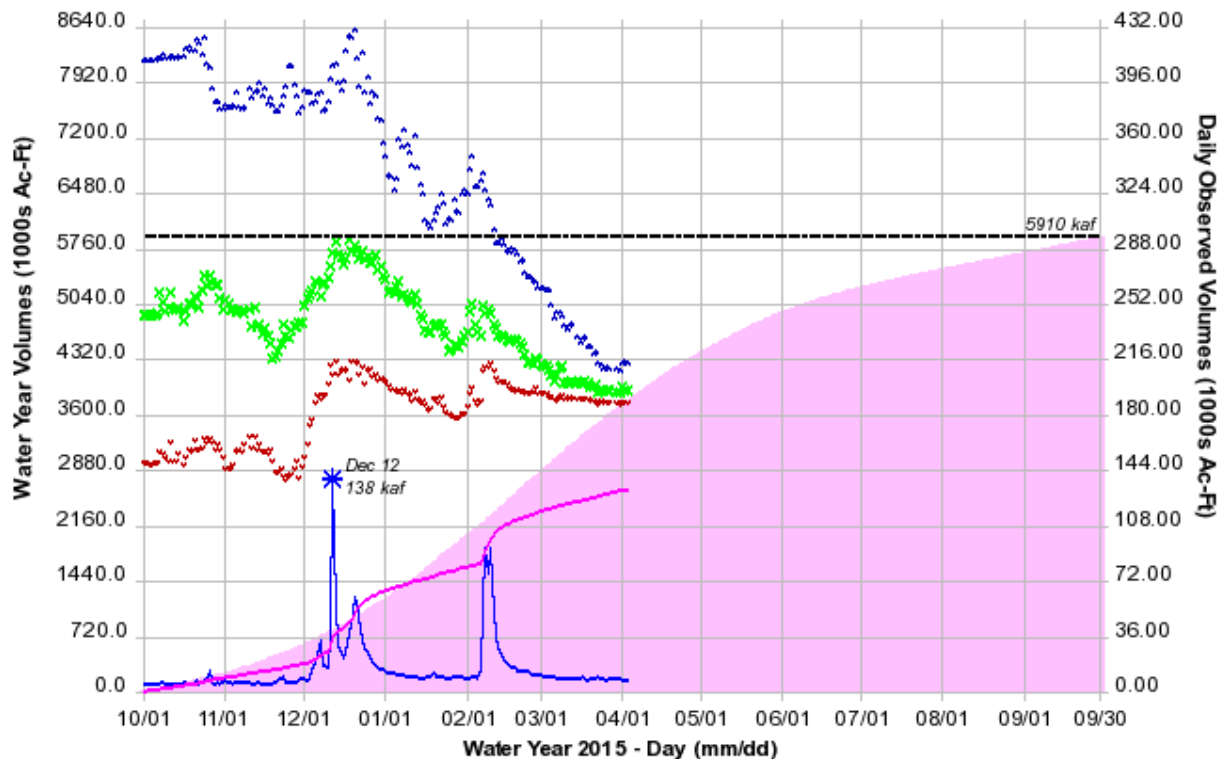


This submittal is provided in response to a request by the State Water Resources Control Board on March 30, 2015, for refined Sacramento River Temperature Modeling Information.

- Analysis in response to request #1 indicates a reduction in overall supply to the Sacramento River Settlement Contractors in the amount of approximately 425 taf – although reduced supplies are more severe in April and May.
- Analysis in response to request #2 indicates a reduction in supply to the Sacramento River Settlement Contractors in the amount of approximately 145 taf – although reduced supplies are more severe in April and May.
- In response to request # 3, the model was updated with the actual March inflows and used the projected 99% exceedance inflows from the March 1 DWR B-120 forecast for April to February. In addition, Reclamation made a comparison of the current 2015 Water Year Trend Plot from the California-Nevada River Forecast Center today and concluded that the inflow into Shasta is converging more toward the 90% exceedance rather than the 99%. The March 1 B-120 projection for April – July runoff at the 90% estimate was 670 taf, and the March 24 updated estimate was 640 taf. At the 99% exceedance level, the March 1 B-120 April – July runoff was projected to be only 550 taf. Based on this trend, the 90% exceedance inflow for Shasta still seems reasonable.

2015 Water Year Trend Plot

Tabular View | Select a Different Water Year: 2015 ▾



Scenario Differences

	6 b (1) Reclamation	6 b (2) Salmonid Plan	6 b (3) "Temp Optimal" (SWCB Scenario)
	Keswick (cfs)	Keswick (cfs)	Keswick (cfs)
April	5600	3250	3250
May	7589	5000	6000
June	8549	8000	8500
July	9234	8000	9000
August	7593	8000	8500
September	5000	6000	6000
October	4061	5500	5500
November	3389	5000	3389
December	3250	5000	3250
January	3250	3250	3250
February	3250	3250	3250

6 b (4) 53 deg target at Shasta Reclamation
Keswick (cfs)
5600
7589
8549
9234
7593
5000
4061
3389 *
3250
3250
3250

Request #1 - Same as 6b (2) Cut SC to keep Folsom whole
Keswick (cfs)
3250
5000
8000
8000
7593
6000
5500
5000
3250
3250
3250

Request #2 (56 deg at CC) Kes-Wilk deplet by 1,200 cfs for April and May
Keswick (cfs)
4400
6389
8549
9234
7593
5000
4061
3389
3250
3250
3250

Request #2 (53 deg at Shasta) Kes-Wilk deplet by 1,200 cfs for April and May
Keswick (cfs)
4400
6389
8549
9234
7593
5000
4061
3389
3250
3250
3250

Request #3 (56 deg at CC) 6b (1) base with 99% inflows into Shasta
Keswick (cfs)
5582
7589
8549
9234
7593
5000
4061
3389
3250
3250
3250

Request #3 (53 deg at Shasta) 6b (1) base with 99% inflows into Shasta
Keswick (cfs)
5582
7589
8549
9234
7593
5000
4061
3389
3250
3250
3250

	6 b (1) Reclamation	6 b (2) Salmonid Plan	6 b (3) "Temp Optimal" (SWCB Scenario)
	Wilkins Slough	Wilkins Slough	Wilkins Slough
April	3800	453	453
May	3800	1211	2211
June	3800	3141	3641
July	3800	2206	3206
August	3800	3987	4487
September	3800	5050	5050
October	3500	4939	4939
November	3500	5110	3500
December	3500	5988	4238

6 b (4) 53 deg target at Shasta Reclamation
Wilkins Slough
3800
3800
3800
3800
3800
3800
3800
3500
3500
3500

Request #1 - Same as 6b (2) Cut SC to keep Folsom whole
Wilkins Slough
1853
3097
3041
3231
3401
5067
4939
5110
5988

Request #2 (56 deg at CC) Kes-Wilk deplet by 1,200 cfs for April and May
Wilkins Slough
3800
3800
3800
3800
3800
3800
3800
3500
3500
3500

Request #2 (53 deg at Shasta) Kes-Wilk deplet by 1,200 cfs for April and May
Wilkins Slough
3800
3800
3800
3800
3800
3800
3800
3500
3500
3500

Request #3 (56 deg at CC) 6b (1) base with 99% inflows into Shasta
Wilkins Slough
3800
3800
3800
3800
3800
3800
3800
3500
3500
3500

Request #3 (53 deg at Shasta) 6b (1) base with 99% inflows into Shasta
Wilkins Slough
3800
3800
3800
3800
3800
3800
3800
3500
3500
3500

EO Sep Storage	1204	1558	1377
EOS vol below 56	199	399	256
1st side gate ops	July 26	Aug 18	Aug 10
Side gate ops	Sep 11	Oct 22	Sep 17

1204
305
Aug 23
Oct 20

1558
399
Aug 18
Oct 22

1347
273
Aug 13
Sep 19

1347
391
Sep 2
<i>Never reached side gates only</i>

985
147
Jul 22
Sep 6

985
244
Aug 15
Sep 25

* Corrected value- previous submittal contained a typo.

Additional Information Request

90% Salmonid Plan w Folsom same by cut SC

Storages

Federal End of the Month Storage/Elevation (TAF/Feet)

		Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
Trinity	1147	1192	1162	975	855	748	642	538	520	507	503	510	546
	Elev.	2275	2272	2252	2238	2224	2209	2191	2188	2186	2185	2187	2193
Whiskeytown	207	206	238	238	238	238	238	230	206	206	206	206	206
	Elev.	1199	1209	1209	1209	1209	1209	1207	1199	1199	1199	1199	1199
Shasta	2613	2752	2785	2667	2389	2063	1736	1558	1433	1363	1315	1436	1637
	Elev.	996	998	992	979	961	941	929	921	915	912	921	935
Folsom	564	600	621	625	488	313	230	207	193	188	191	206	217
	Elev.	428	431	431	415	389	374	369	365	364	365	368	371
New Melones	606	583	518	424	349	268	188	132	118	126	133	137	144
	Elev.	874	861	840	822	799	771	747	740	744	748	749	753
San Luis	357	385	327	224	107	-31	-132	-17	163	308	556	789	809
	Elev.	480	463	438	401	342	--	--	345	390	436	476	473
Total		5717	5651	5153	4426	3599	2902	2648	2633	2698	2903	3283	3559

State End of the Month Reservoir Storage (TAF)

Oroville	1735	1783	1758	1630	1438	1196	1022	962	955	868	868	953	1107
	Elev.	761	759	745	723	692	668	658	657	643	643	657	680
San Luis	936	904	776	636	423	177	21	-24	-1	136	279	451	415
Total San Luis (TAF)		1293	1290	1103	860	530	147	-111	-41	161	444	835	1224

Monthly River Releases (TAF/cfs)

Trinity	TAF	18	32	180	47	28	28	27	23	18	18	18	17
	cfs	300	540	2,924	783	450	450	450	373	300	300	300	300
Clear Creek	TAF	11	13	13	9	7	5	9	11	10	11	11	10
	cfs	175	218	216	150	120	85	150	175	175	175	175	175
Sacramento	TAF	200	193	307	476	492	492	357	338	297	307	200	180
	cfs	3250	3250	5000	8000	8000	8000	6000	5500	5000	5000	3250	3250
American	TAF	31	30	42	151	186	104	42	49	48	50	49	94
	cfs	500	508	685	2535	3025	1684	700	800	800	806	801	1692
Stanislaus	TAF	17	27	24	9	9	9	9	35	12	13	16	17
	cfs	280	460	384	150	150	150	150	577	200	206	261	309
Feather	TAF	49	74	49	77	141	108	88	55	48	49	49	44
	cfs	800	1252	800	1300	2300	1750	1480	900	800	800	800	800

**WLK
Trinity Diversions (TAF)**

	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
	3800	1853	3097	3041	3231	3401	5067	4939	5110	5988		
Carr PP	0	34	18	77	78	77	77	2	9	7	6	2
Spring Crk. PP	10	4	11	70	70	70	75	17	0	0	3	4

Delta Summary (TAF)

	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
Tracy	80	0	0	0	0	0	173	221	163	265	241	45
USBR Banks	0	0	0	0	0	0	0	0	0	0	0	0
Contra Costa	3.5	8.7	8.7	8.7	8.0	8.3	8.7	3.5	4.3	4.7	4.7	3.5
Total USBR	84	9	9	9	8	8	182	225	167	270	246	49
State Export	90	18	18	15	25	35	25	60	157	170	215	38
Total Export	174	27	27	24	33	43	207	285	324	440	461	87
COA Balance	0	-35	-87	-100	-120	-106	-107	-106	-106	-111	-116	-127

Old/Middle River Std.												
Old/Middle R. calc.	-2,316	-506	-533	-709	-811	-963	-3,070	-3,646	-4,440	-5,763	-5,979	-1,335

Computed DOI	5905	4001	4002	4001	3904	2993	3009	3497	3496	3497	4506	11400
Excess Outflow	1903	0	0	0	0	0	0	0	0	0	0	0
% Export/Inflow	32%	5%	5%	3%	5%	8%	37%	48%	56%	67%	67%	12%
% Export/Inflow std.	35%	35%	35%	35%	65%	65%	65%	65%	65%	65%	65%	45%

Hydrology

Water Year Inflow (TAF)	Trinity	830	Shasta	3,563	Folsom	867	New Melones	277
Year to Date + Forecasted % of mean		69%		64%		32%		26%

90% 1,200 cfs reduction at Kes-Wik April and May

Storages

Federal End of the Month Storage/Elevation (TAF/Feet)

		Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	
Trinity		1147	1192	1158	967	847	740	634	575	544	512	496	503	540
	Elev.	2275	2272	2251	2237	2223	2207	2198	2193	2187	2184	2185	2192	
Whiskeytown		207	206	238	238	238	238	230	206	206	206	206	206	
	Elev.	1199	1209	1209	1209	1209	1209	1207	1199	1199	1199	1199	1199	
Shasta		2613	2752	2720	2522	2211	1810	1510	1347	1323	1368	1439	1560	1761
	Elev.	996	995	978	969	946	926	914	912	916	921	930	943	
Folsom		564	600	621	626	494	325	247	222	209	204	208	222	233
	Elev.	428	431	431	416	391	377	372	369	368	369	372	374	
New Melones		606	583	518	424	349	268	188	132	118	126	133	137	144
	Elev.	874	861	840	822	799	771	747	740	744	748	749	753	
San Luis		357	385	372	299	207	94	17	65	156	205	345	566	587
	Elev.	480	470	450	420	375	333	335	357	386	421	462	460	
Total		5717	5628	5075	4346	3475	2833	2572	2556	2621	2826	3194	3470	

State End of the Month Reservoir Storage (TAF)

Oroville		1735	1783	1785	1656	1465	1223	1049	989	982	894	894	979	1134
	Elev.	761	761	748	726	696	672	662	661	647	647	661	684	
San Luis		936	904	803	675	482	246	89	48	70	208	351	523	487
Total San Luis (TAF)		1293	1290	1175	974	689	340	106	113	226	413	696	1089	1074

Monthly River Releases (TAF/cfs)

Trinity	TAF	18	32	180	47	28	28	27	23	18	18	18	17
	cfs	300	540	2,924	783	450	450	450	373	300	300	300	300
Clear Creek	TAF	11	13	13	9	7	5	9	11	10	11	11	10
	cfs	175	218	216	150	120	85	150	175	175	175	175	175
Sacramento	TAF	200	262	393	509	568	467	297	250	202	200	200	180
	cfs	3250	4400	6389	8549	9234	7593	5000	4061	3389	3250	3250	3250
American	TAF	31	30	42	145	180	98	42	49	48	49	49	94
	cfs	500	500	683	2444	2933	1600	706	800	800	800	800	1692
Stanislaus	TAF	17	27	24	9	9	9	9	35	12	13	16	17
	cfs	280	460	384	150	150	150	150	577	200	206	261	309
Feather	TAF	49	48	49	77	141	108	88	55	48	49	49	44
	cfs	800	800	800	1300	2300	1750	1480	900	800	800	800	800

Trinity Diversions (TAF)

	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
Carr PP	0	38	22	77	78	77	32	15	28	19	6	1
Spring Crk. PP	10	8	15	70	70	70	30	30	19	12	3	3

Delta Summary (TAF)

	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
Tracy	80	45	31	25	25	25	107	133	67	157	229	45
USBR Banks	0	0	0	0	0	0	0	0	0	0	0	0
Contra Costa	3.5	8.7	8.7	8.7	8.0	8.3	8.7	3.5	4.3	4.7	4.7	3.5
Total USBR	84	53	39	34	33	33	116	137	71	162	234	49
State Export	90	45	31	35	35	35	31	60	157	170	215	38
Total Export	174	98	70	69	68	68	147	197	228	332	449	87
COA Balance	0	0	-29	-26	-28	-28	-22	-22	-22	-27	-27	-38

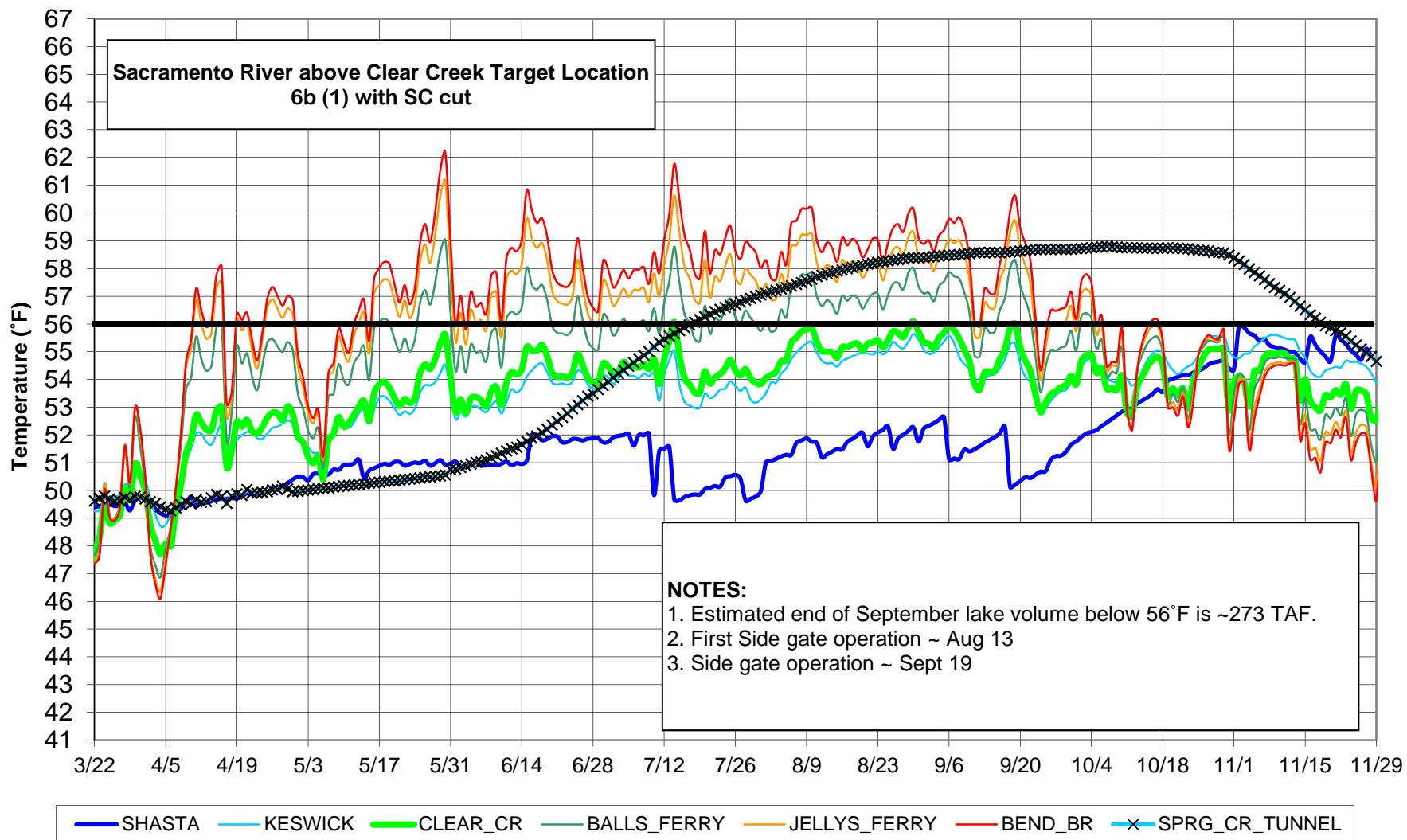
Old/Middle River Std.												
Old/Middle R. calc.	-2,316	-1,431	-1,072	-1,291	-1,250	-1,276	-2,293	-2,543	-3,197	-4,410	-5,829	-1,335

Computed DOI	5905	4118	4002	4001	3904	2993	3009	3497	3496	3497	4701	11400
Excess Outflow	1903	118	0	0	0	0	0	0	0	0	195	0
% Export/Inflow	32%	22%	15%	12%	11%	13%	29%	39%	47%	61%	65%	12%
% Export/Inflow std.	35%	35%	35%	35%	65%	65%	65%	65%	65%	65%	65%	45%

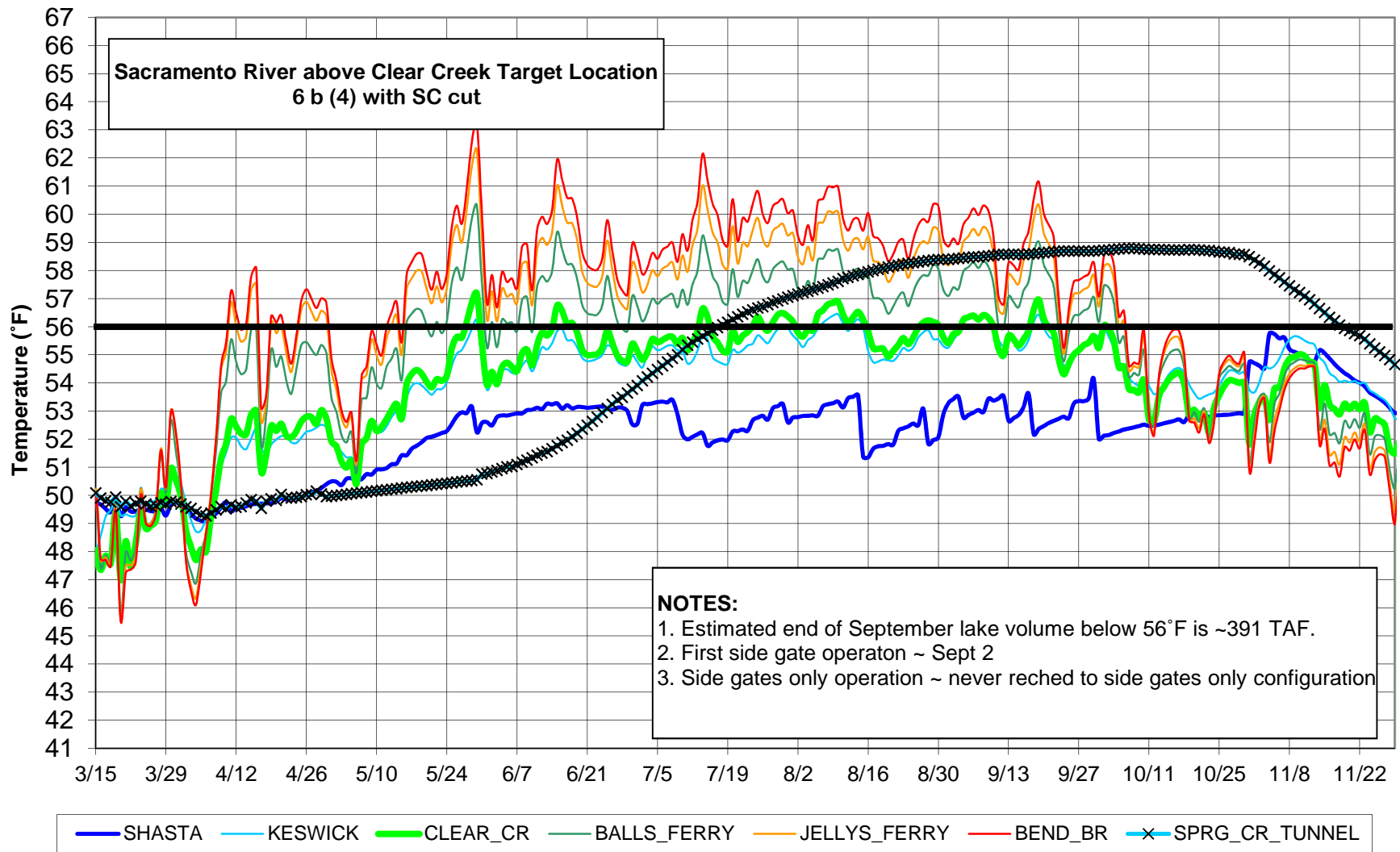
Hydrology

Water Year Inflow (TAF)	Trinity	830	Shasta	3,563	Folsom	867	New Melones	277
Year to Date + Forecasted % of mean	69%	64%	32%	26%				

Sacramento River Modeled Temperature 2015 March 90%-Exceedance Outlook



**Sacramento River Modeled Temperature
2015 March 90%-Exceedance Outlook
53 degree target at Shasta**



90% with 99% inflow into Shasta

Storages

Federal End of the Month Storage/Elevation (TAF/Feet)

		Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	
Trinity		1147	1192	1158	967	847	740	634	575	544	512	496	503	540
	Elev.	2275	2272	2251	2237	2223	2207	2198	2193	2187	2184	2185	2192	
Whiskeytown		207	206	238	238	238	238	230	206	206	206	206	206	
	Elev.	1199	1209	1209	1209	1209	1209	1207	1199	1199	1199	1199	1199	
Shasta		2613	2681	2539	2237	1908	1477	1164	985	932	928	929	951	1032
	Elev.	993	986	978	952	924	900	884	879	878	879	881	888	
Folsom		564	577	583	582	535	436	378	347	303	268	241	196	157
	Elev.	426	427	426	421	408	400	395	388	381	376	366	355	
New Melones		606	583	518	424	349	268	188	132	118	126	133	137	144
	Elev.	874	861	840	822	799	771	747	740	744	748	749	753	
San Luis		357	385	372	299	207	94	17	65	156	205	345	566	587
	Elev.	480	470	450	420	375	333	335	357	386	421	462	460	
Total		5623	5408	4747	4083	3254	2619	2335	2260	2245	2350	2558	2665	

State End of the Month Reservoir Storage (TAF)

Oroville		1735	1783	1785	1656	1465	1223	1049	989	982	894	894	979	1134
	Elev.	761	761	748	726	696	672	662	661	647	647	661	684	
San Luis		936	904	803	675	482	246	89	48	70	208	351	523	487
Total San Luis (TAF)		1293	1290	1175	974	689	340	106	113	226	413	696	1089	1074

Monthly River Releases (TAF/cfs)

Trinity	TAF	18	32	180	47	28	28	27	23	18	18	18	17
	cfs	300	540	2,924	783	450	450	450	373	300	300	300	300
Clear Creek	TAF	11	13	13	9	7	5	9	11	10	11	11	10
	cfs	175	218	216	150	120	85	150	175	175	175	175	175
Sacramento	TAF	200	332	467	509	568	467	297	250	202	200	200	180
	cfs	3250	5582	7589	8549	9234	7593	5000	4061	3389	3250	3250	3250
American	TAF	31	30	37	56	94	68	42	49	48	49	49	94
	cfs	500	500	600	948	1534	1112	700	800	800	800	800	1692
Stanislaus	TAF	17	27	24	9	9	9	9	35	12	13	16	17
	cfs	280	460	384	150	150	150	150	577	200	206	261	309
Feather	TAF	49	48	49	77	141	108	88	55	48	49	49	44
	cfs	800	800	800	1300	2300	1750	1480	900	800	800	800	800

Trinity Diversions (TAF)

	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
Carr PP	0	38	22	77	78	77	32	15	28	19	6	1
Spring Crk. PP	10	8	15	70	70	70	30	30	19	12	3	3

Delta Summary (TAF)

	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
Tracy	80	45	31	25	25	25	107	133	67	157	229	45
USBR Banks	0	0	0	0	0	0	0	0	0	0	0	0
Contra Costa	3.5	8.7	8.7	8.7	8.0	8.3	8.7	3.5	4.3	4.7	4.7	3.5
Total USBR	84	53	39	34	33	33	116	137	71	162	234	49
State Export	90	45	31	35	35	35	31	60	157	170	215	38
Total Export	174	98	70	69	68	68	147	197	228	332	449	87
COA Balance	0	0	0	-13	-25	-26	-26	1	37	77	77	142

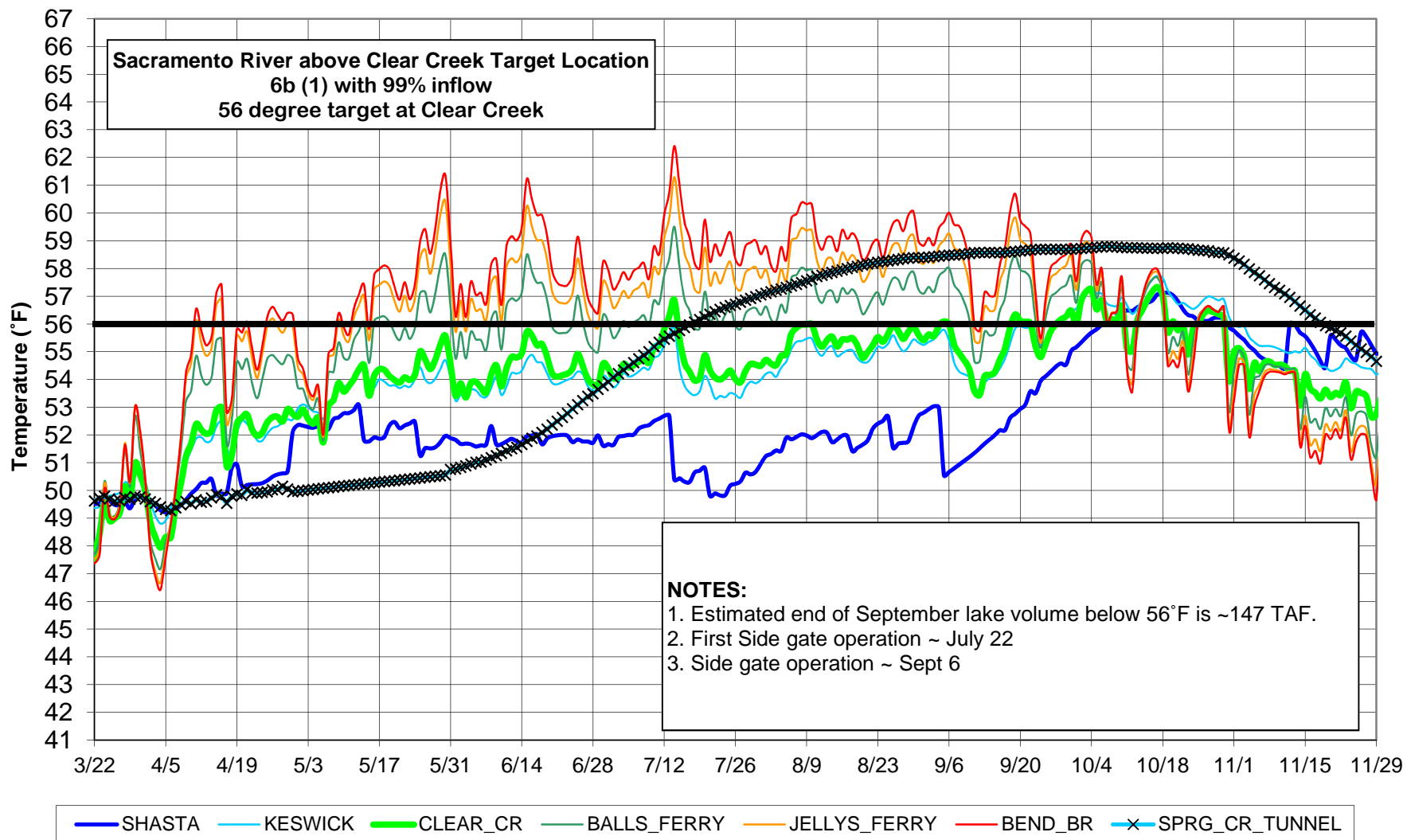
Old/Middle River Std.												
Old/Middle R. calc.	-2,316	-1,431	-1,072	-1,291	-1,250	-1,276	-2,293	-2,543	-3,197	-4,410	-5,829	-1,335

Computed DOI	5905	4068	3920	2505	2505	2505	3009	3497	3496	3497	4701	11400
Excess Outflow	3400	1563	1415	0	0	0	504	0	0	0	195	0
% Export/Inflow	32%	22%	15%	15%	13%	13%	29%	39%	47%	61%	65%	12%
% Export/Inflow std.	35%	35%	35%	35%	65%	65%	65%	65%	65%	65%	65%	45%

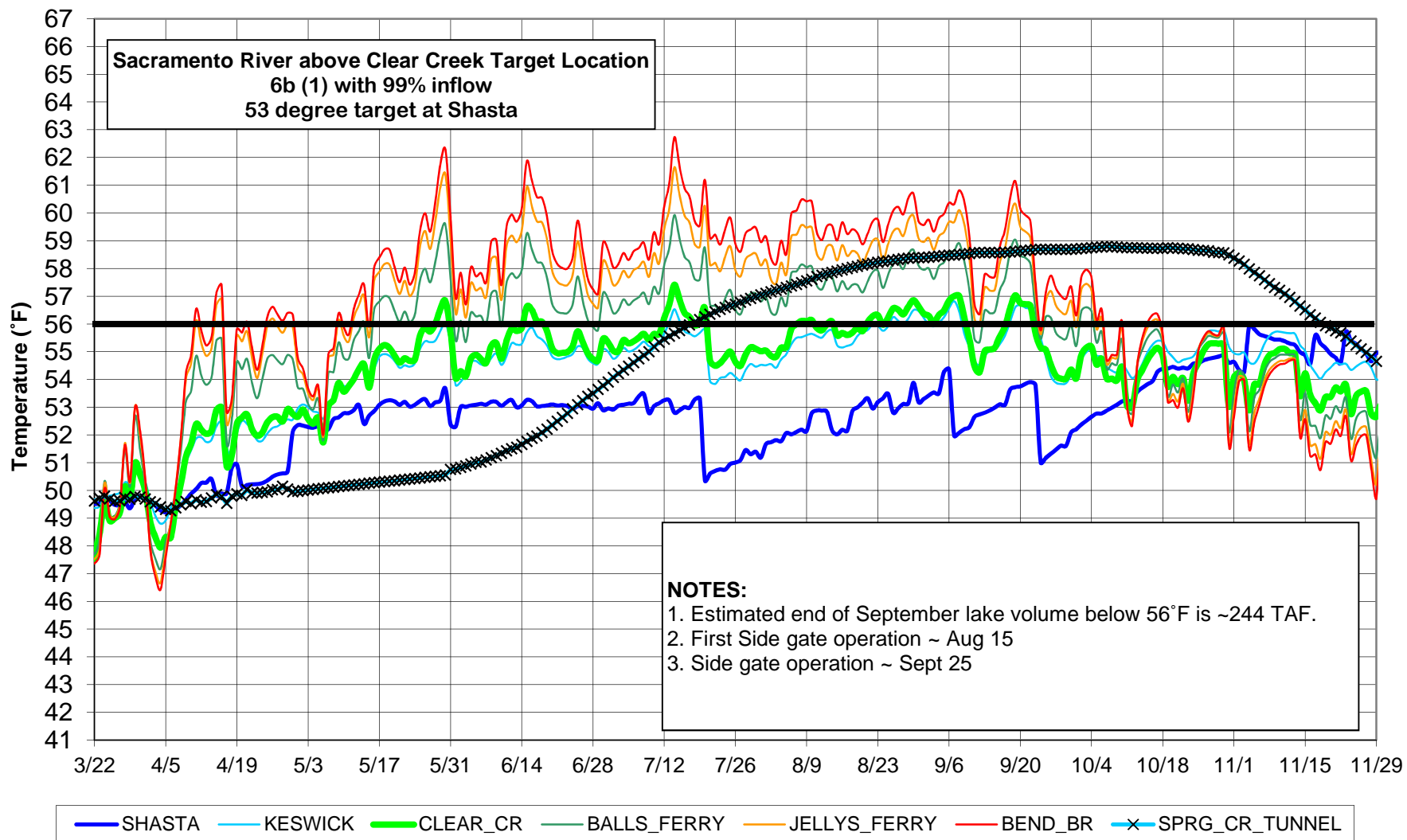
Hydrology

Water Year Inflow (TAF)	Trinity	830	Shasta	3,340	Folsom	783	New Melones	277
Year to Date + Forecasted % of mean	69%	60%	29%	26%				

Sacramento River Modeled Temperature 2015 March 90%-Exceedance Outlook



Sacramento River Modeled Temperature 2015 March 90%-Exceedance Outlook



Additional information #1

Inflows							
	Trinity	Whiskeytown	Shasta	Folsom	New Melones	Oroville	
Oct	10	9	2	200	50	25	80
Nov	11	14	2	230	50	20	80
Dec	12	22	4	260	60	20	100
Jan	1	33	8	320	70	20	170
Feb	2	55	12	380	110	25	200
Mar	3	65	20	333	75	16	99
Apr	4	41	16	230	63	19	64
May	5	15	8	190	63	21	48
Jun	6	8	4	140	35	22	19
Jul	7	5	2	110	35	6	35
Aug	8	3	1	108	41	3	57
Sep	9	3	1	113	35	5	79

River Releases				
	Trinity (cfs)	Clear Creek (cfs)	Goodwin (cfs)	
Oct	10	373	175	577
Nov	11	300	175	200
Dec	12	300	175	206
Jan	1	300	175	261
Feb	2	300	175	309
Mar	3	300	175	280
Apr	4	540	218	460
May	5	2924	216	400
Jun	6	783	150	150
Jul	7	450	120	150
Aug	8	450	85	150
Sep	9	450	150	150

Modified Normal/Dry

Update

Hydrology														
	Wilkin's Target (cfs)	Kes-Wilkin's Acc/Dep (cfs)	SJR Above Stan (TAF)	Sac Gross Acc/Dep (TAF)	Freeport Treatment Plant (TAF)	East Side Streams (cfs)	Misc. Creeks (TAF)	Yolo Bypass (TAF)	Transfer Inflow (TAF)	Delta Consumptive Use (TAF)	Delta Outflow (TAF)	X-Channel Gate	Feather Minimum	Feather Target
Oct	10	3500	-738	34	40	13.3	210	29	0	-118	215	0	0	0
Nov	11	3500	-64	34	30	14	260	19	0	-55	208	0	0	0
Dec	12	3500	813	33	160	13.2	160	11.1	0	-2	215	1	0	0
Jan	1	4000	2542	36	300	13.8	98	0.8	0	56	277	1	0	0
Feb	2	0	2051	39	240	12	810	0.9	0	37	633	1	0	0
Mar	3	0	410	44	120	12.1	671	1.2	0	10	246	1	0	0
Apr	4	0	-1518	23	-76.4743739	11.5	330	1.8	0	-63	238	1	0	0
May	5	0	-2119	31	-133.606249	12.2	280	32.3	0	-121	246	1	0	0
Jun	6	0	-5109	16	-325.761807	12.5	180	17.4	0	-191	238	0	0	0
Jul	7	0	-4889	17	-346.822364	12.3	120	15.4	0	-268	240	0	0	0
Aug	8	0	-4684	14	-296.64733	12.4	110	25.5	0	-252	184	0	0	0
Sep	9	0	-1083	17	-8.9	12.4	160	25.5	0	-174	179	0	0	0

Demands (TAF)																		Update		
	Folsom Pumping	Folsom South Canal	OID/SSJID	New Melones CVP Contractors	Thermolito Demand	CCWD	Barker Slough	F. Banks On-Peak	F. Banks Off-Peak	North Bay Aqueduct	Delta Mendota Canal	Federal Dos Amigos	Fed ON to D.A.	San Felipe	Cross Valley Canal	Fed Exchange Oneil	Fed Exchange San Luis	South Bay/San Jose	State Dos Amigos	Spring Creek Tunnel
Oct	10	11	2	0	0	30	3.5	0	0	0	30	8		3	0	0	0	5	32	0
Nov	11	5	2	0	0	119	4.3	0	0	0	10	5		2	0	0	0	3	16	0
Dec	12	5	2	0	0	50	4.7	0	0	0	10	5		2	0	0	0	3	23	30
Jan	1	4	1	0	0	35	4.7	0	0	0	0	5		2	0	0	0	0	42	30
Feb	2	4	1	0	0	4	3.5	0	0	0	20	1		2	0	0	0	0	73	30
Mar	3	5	1	20	0	0	3.5	0	0	0	20	27		3	0	0	0	1	119	30
Apr	4	7	1	50	0	11	8.7	0	0	0	20	32		3	0	0	0	1	141	30
May	5	10	2	85	0	122	8.7	0	0	0	40	55		4	0	0	0	2	152	30
Jun	6	14	2	85	0	128	8.7	0	0	0	50	61		3	0	0	0	2	222	75
Jul	7	15	2	75	0	123	8.0	0	0	0	60	71		3	0	0	0	1	266	87
Aug	8	14	2	72	0	118	8.3	0	0	0	50	46		3	0	0	0	2	167	75
Sep	9	12	2	53	0	47	8.7	0	0	0	40	15		3	0	0	0	5	65	40

Additional information #2

Inflows							
	Trinity	Whiskeytown	Shasta	Folsom	New Melones	Oroville	
Oct	10	9	2	200	50	25	80
Nov	11	14	2	230	50	20	80
Dec	12	22	4	260	60	20	100
Jan	1	33	8	320	70	20	170
Feb	2	55	12	380	110	25	200
Mar	3	65	20	333	75	16	99
Apr	4	41	16	230	63	19	64
May	5	15	8	190	63	21	48
Jun	6	8	4	140	35	22	19
Jul	7	5	2	110	35	6	35
Aug	8	3	1	108	41	3	57
Sep	9	3	1	113	35	5	79

Modified Normal/Dry							
River Releases							
	Trinity (cfs)	Clear Creek (cfs)	Goodwin (cfs)				
Oct	10	373	175	577			
Nov	11	300	175	200			
Dec	12	300	175	206			
Jan	1	300	175	261			
Feb	2	300	175	309			
Mar	3	300	175	280			
Apr	4	540	216	460			
May	5	2324	216	400			
Jun	6	783	150	150			
Jul	7	450	120	150			
Aug	8	450	85	150			
Sep	9	450	150	150			

Hydrology															
	Wilkin's Target (cfs)	Kes-Wilkin's Acc/Dep (cfs)	SJR Above Stan (TAF)	Sac Gross Acc/Dep (TAF)	Freeport Treatment Plant (TAF)	East Side Streams (cfs)	Misc. Creeks (TAF)	Yolo Bypass (TAF)	Transfer Inflow (TAF)	Delta Consumptive Use (TAF)	Delta Outflow (TAF)	X-Channel Gate	Feather Minimum	Feather Target	
Oct	10	3500	-736	34	40	13.3	210	29	0	0	-118	215	0	0	
Nov	11	3500	-64	34	90	14	260	19	0	0	-55	208	0	0	
Dec	12	3500	813	33	160	13.2	160	11.1	0	0	-2	215	1	0	
Jan	1	4000	2542	36	300	13.8	98	0.8	0	0	56	277	1	0	
Feb	2	0	2051	39	240	12	810	0.9	0	0	37	633	1	0	
Mar	3	0	410	44	120	12.1	671	1.2	0	0	10	246	1	0	
Apr	4	3800	-800	29	-39	11.5	390	1.8	0	0	-63	238	1	0	
May	5	3800	-2805	31	-176	12.2	280	32.3	0	0	-121	246	1	0	
Jun	6	3800	-4899	16	-308	12.5	180	17.4	0	0	-191	238	0	0	
Jul	7	3800	-5554	17	-382	12.3	120	15.4	0	0	-268	240	0	0	
Aug	8	3800	-3878	14	-241.5	12.4	110	25.5	0	0	-252	184	0	0	
Sep	9	3800	-1100	17	-10	12.4	160	25.5	0	0	-174	179	0	0	

Demands (TAF)																				
	Folsom Pumping	Folsom South Canal	OID/ISS/JID	New Melones CVP Contractors	Thermolito Demand	CCWD	Barker Slough	F. Banks On-Peak	F. Banks Off-Peak	North Bay Aqueduct	Delta Mendota Canal	Federal Dos Amigos	Fed ON to D.A.	San Felipe	Cross Valley Canal	Fed Exchange Oneil	Fed Exchange San Luis	South Bay/San Jose	State Dos Amigos	Spring Creek Tunnel
Oct	10	11	2	10	0	30	3.5	0	0	0	30	8	0	3	0	0	0	5	32	0
Nov	11	5	2	0	0	119	4.3	0	0	0	10	5	0	2	0	0	0	3	16	0
Dec	12	5	2	0	0	50	4.7	0	0	0	10	5	0	2	0	0	0	3	23	30
Jan	1	4	1	0	0	35	4.7	0	0	0	0	5	0	2	0	0	0	0	42	30
Feb	2	4	1	0	0	0	3.5	0	0	0	20	1	0	2	0	0	0	0	73	30
Mar	3	5	1	20	0	0	3.5	0	0	0	20	27	0	3	0	0	0	1	119	30
Apr	4	7	1	50	0	11	8.7	0	0	0	20	32	0	3	0	0	0	1	141	30
May	5	10	2	85	0	122	8.7	0	0	0	40	55	0	4	0	0	0	2	152	30
Jun	6	14	2	85	0	128	8.7	0	0	0	50	61	0	3	0	0	0	2	222	75
Jul	7	15	2	75	0	129	8.0	0	0	0	60	71	0	3	0	0	0	1	266	87
Aug	8	14	2	72	0	118	8.3	0	0	0	50	46	0	3	0	0	0	2	187	75
Sep	9	12	2	53	0	47	8.7	0	0	0	40	15	0	3	0	0	0	5	65	40

Additional information #3

Inflows							
	Trinity	Whiskeytown	Shasta	Folsom	New Melones	Oroville	
Oct	10	9	2	170	20	25	80
Nov	11	14	2	180	20	20	80
Dec	12	22	4	190	30	20	100
Jan	1	33	8	220	10	20	170
Feb	2	55	12	260	60	25	200
Mar	3	65	20	262	52	16	99
Apr	4	41	16	190	48	19	64
May	5	15	8	160	52	21	48
Jun	6	8	4	120	30	22	19
Jul	7	5	2	80	20	6	35
Aug	8	3	1	93	32	3	57
Sep	9	3	1	96	29	5	79

Modified Normal/Dry				
River Releases				
	Trinity (cfs)	Clear Creek (cfs)	Goodwin (cfs)	
Oct	10	373	175	577
Nov	11	300	175	200
Dec	12	300	175	206
Jan	1	300	175	261
Feb	2	300	175	309
Mar	3	300	175	280
Apr	4	540	218	460
May	5	2924	216	400
Jun	6	783	150	150
Jul	7	450	120	150
Aug	8	450	85	150
Sep	9	450	150	150

Hydrology															
	Trinity	Wilkin's Target (cfs)	Kes-Wilkin's Acco/Dep (cfs)	SJR Above Stan (TAF)	Sac Gross Acco/Dep (TAF)	Freeport Treatment Plant (TAF)	East Side Streams (cfs)	Misc. Creeks (TAF)	Yolo Bypass (TAF)	Transfer Inflow (TAF)	Delta Consumptive Use (TAF)	Delta Outflow (TAF)	X-Channel Gate	Feather Minimum	Feather Target
Oct	10	3500	-736	34	40	13.3	210	29	0	0	-118	215	0	0	0
Nov	11	3500	-64	34	90	14	260	19	0	0	-55	208	0	0	0
Dec	12	3500	813	33	160	13.2	160	11.1	0	0	-2	215	1	0	0
Jan	1	4000	2542	36	300	13.8	98	0.8	0	0	56	277	1	0	0
Feb	2	0	2051	39	240	12	810	0.9	0	0	37	633	1	0	0
Mar	3	0	410	44	120	12.1	671	1.2	0	0	10	154	1	0	0
Apr	4	3800	-2000	29	-112	11.5	390	1.8	0	0	-63	149	1	0	0
May	5	3800	-4005	31	-250	12.2	280	32.3	0	0	-121	154	1	0	0
Jun	6	3800	-4899	16	-308	12.5	180	17.4	0	0	-191	149	0	0	0
Jul	7	3800	-5554	17	-382	12.3	120	15.4	0	0	-268	154	0	0	0
Aug	8	3800	-3878	14	-241.5	12.4	110	25.5	0	0	-252	154	0	0	0
Sep	9	3800	-1100	17	-10	12.4	160	25.5	0	0	-174	149	0	0	0

Demands (TAF)																				
	Folsom Pumping	Folsom South Canal	OID/SSJID	New Melones CVP Contractors	Thermolito Demand	CCWD	Barker Slough	F. Banks On-Peak	F. Banks Off-Peak	North Bay Aqueduct	Delta Mendota Canal	Federal Dos Amigos	Fed ON to D.A.	San Felipe	Cross Valley Canal	Fed Exchange Onell	Fed Exchange San Luis	South Bay/San Jose	State Dos Amigos	Spring Creek Tunnel
Oct	10	11	2	0	30	3.5	0	0	0	0	30	8	0	3	0	0	0	5	32	0
Nov	11	5	2	0	119	4.3	0	0	0	0	10	5	0	2	0	0	0	3	16	0
Dec	12	5	2	0	50	4.7	0	0	0	0	10	5	0	2	0	0	0	3	23	0
Jan	1	4	1	0	35	4.7	0	0	0	0	0	5	0	2	0	0	0	0	42	0
Feb	2	4	1	0	0	3.5	0	0	0	0	20	1	0	2	0	0	0	0	73	0
Mar	3	5	1	20	0	3.5	0	0	0	0	20	27	0	3	0	0	0	1	119	0
Apr	4	7	1	50	0	11	8.7	0	0	0	20	32	0	3	0	0	0	1	141	0
May	5	10	2	85	0	122	8.7	0	0	0	40	55	0	4	0	0	0	2	152	0
Jun	6	14	2	85	0	128	8.7	0	0	0	50	61	0	3	0	0	0	2	222	0
Jul	7	15	2	75	0	129	8.0	0	0	0	60	71	0	3	0	0	0	1	266	0
Aug	8	14	2	72	0	118	8.3	0	0	0	50	46	0	3	0	0	0	2	187	0
Sep	9	12	2	53	0	47	8.7	0	0	0	40	15	0	3	0	0	0	5	65	0