

APPENDIX B

Hydrologic Data

- B-1 Stanislaus River – Goodwin (SNS) Full Natural**
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- B-3 USGS 11294500 North Fork Stanislaus River Near Avery, CA**
- B-4 USGS 11266500 Merced River at Pohono Bridge Near Yosemite, CA**
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TABLE B-1
Lake Alpine Water Company
Stanislaus River - Goodwin (SNS), Full Natural
 Source: <http://cdec.water.ca.gov/cgi-progs/stationInfo?stationid=SNS>

Water Year	Monthly mean streamflow (cfs)												Total Volume (af)	
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Seasonal	Annual
1901	454	1,247	922	2,109	5,557	2,586	2,790	5,416	4,991	1,667	400	121	1,654,600	1,686,400
1902	150	279	851	228	917	1,382	3,790	4,163	3,260	623	213	82	941,800	959,800
1903	115	314	501	1,382	1,165	2,277	4,806	3,654	3,654	665	130	7	1,115,300	1,123,700
1904	28	671	286	211	4,764	6,265	5,445	9,700	4,618	1,337	377	250	2,008,800	2,046,900
1905	1,195	427	464	672	1,377	2,451	2,975	3,329	2,454	633	138	79	962,500	975,700
1906	83	91	146	2,524	2,123	5,460	5,385	8,236	9,404	5,263	958	291	2,338,300	2,414,500
1907	174	168	1,296	1,690	3,617	10,534	8,174	7,858	7,556	4,433	1,114	356	2,744,700	2,834,400
1908	257	198	368	555	549	1,215	2,581	2,300	1,427	522	192	94	602,600	620,000
1909	112	136	169	5,848	4,104	2,792	4,948	6,367	5,657	1,490	324	123	1,898,700	1,925,900
1910	150	1,037	2,329	2,329	1,662	3,931	5,534	3,962	1,623	449	148	139	1,388,400	1,405,800
1911	130	202	350	4,188	3,065	5,552	6,326	6,808	8,418	3,271	579	230	2,307,600	2,356,900
1912	192	224	203	330	259	520	973	3,651	2,832	470	127	123	584,600	599,700
1913	88	252	174	350	351	488	2,349	3,406	1,706	402	184	87	577,500	594,000
1914	119	161	322	4,329	2,951	3,227	4,410	7,000	4,627	1,711	379	128	1,738,500	1,769,400
1915	156	155	268	690	2,357	1,456	3,435	5,785	5,383	1,553	293	150	1,274,000	1,300,900
1916	122	138	366	2,321	2,371	4,728	6,018	5,674	4,181	1,205	330	173	1,637,900	1,668,500
1917	332	269	651	459	2,587	1,387	3,398	5,733	6,428	1,358	236	136	1,354,300	1,376,900
1918	52	109	176	145	574	2,597	3,449	3,477	2,576	340	91	129	814,200	827,500
1919	207	266	276	205	895	1,055	3,457	5,160	983	176	42	7	765,000	768,000
1920	59	82	228	190	256	1,573	2,512	4,697	2,087	429	86	47	734,500	742,600
1921	203	462	818	1,900	1,729	2,553	3,178	5,021	4,017	857	145	62	1,249,600	1,262,200
1922	70	94	408	574	1,923	1,680	2,855	8,042	6,358	1,407	268	72	1,409,600	1,430,400
1923	104	271	1,285	1,260	989	1,244	3,482	5,790	2,702	1,190	200	173	1,107,600	1,130,200
1924	195	156	158	197	464	392	1,176	1,374	190	23	0	0	261,100	261,100
1925	104	454	519	509	2,746	1,956	4,378	5,788	2,887	828	181	82	1,208,500	1,224,500
1926	130	168	228	218	1,332	1,288	3,627	2,267	681	106	49	45	600,800	606,500
1927	86	387	990	838	2,910	2,174	4,489	5,391	4,122	1,026	224	113	1,343,000	1,363,500
1928	156	684	420	504	841	4,121	3,595	3,900	1,121	213	83	42	942,400	950,000
1929	39	128	169	211	411	719	1,679	3,184	1,642	298	62	12	512,100	516,600
1930	10	64	319	499	871	1,698	3,084	2,749	2,240	444	88	96	720,600	731,700
1931	132	161	130	223	380	629	1,556	1,498	415	98	7	0	314,600	315,000
1932	49	91	937	694	2,286	1,903	3,428	6,253	5,016	1,379	303	89	1,329,000	1,352,900
1933	99	74	127	198	247	613	1,773	2,897	3,459	450	102	69	599,000	609,400
1934	42	113	319	465	805	1,634	1,672	1,124	706	143	23	12	422,100	424,200
1935	65	276	319	696	852	1,130	5,290	6,164	4,191	864	215	74	1,195,900	1,213,500
1936	122	133	135	881	3,588	2,498	4,838	5,398	3,247	834	195	129	1,302,200	1,321,900
1937	114	103	189	379	1,981	2,020	3,232	6,689	2,812	638	182	89	1,092,300	1,108,800
1938	107	158	2,901	820	3,133	3,887	5,065	8,803	6,586	1,838	450	197	2,005,400	2,044,800
1939	286	358	259	352	396	1,203	3,012	1,797	735	213	35	84	518,910	526,060
1940	252	155	185	2,084	3,005	4,296	4,319	5,623	2,599	488	127	66	1,388,710	1,400,410
1941	127	118	738	899	1,950	2,625	3,094	7,044	3,912	1,324	283	74	1,316,600	1,338,400
1942	181	208	1,233	1,875	1,847	1,711	4,183	5,764	5,433	1,815	298	109	1,460,600	1,485,400
1943	114	735	955	2,675	2,118	4,907	5,171	4,868	2,931	1,074	302	95	1,540,720	1,564,940
1944	129	124	184	309	545	1,119	1,680	4,207	2,074	622	128	30	666,120	675,810
1945	110	809	721	598	3,299	1,584	3,488	5,410	3,857	1,137	225	119	1,256,260	1,277,160
1946	359	845	2,048	1,399	884	1,866	3,994	4,980	2,273	586	155	89	1,163,240	1,178,050
1947	164	512	516	356	819	1,524	2,285	2,952	1,036	234	87	25	626,880	633,710
1948	274	155	166	398	306	622	2,614	5,134	4,154	830	165	26	885,990	897,710
1949	84	219	272	248	340	993	3,262	4,506	1,933	329	110	33	736,450	745,180
1950	71	114	129	688	1,314	1,550	4,280	5,513	3,254	733	143	90	1,062,000	1,076,120
1951	165	6,155	6,704	1,944	2,043	2,067	2,943	3,398	1,923	525	153	80	1,679,490	1,693,700
1952	168	280	939	1,723	1,840	2,310	5,612	9,595	6,219	2,335	550	158	1,876,120	1,919,370
1953	93	179	398	1,244	738	1,189	3,516	3,121	3,877	1,418	212	61	950,470	967,120
1954	109	161	190	341	790	2,365	4,434	4,245	1,517	414	91	68	878,760	888,390
1955	88	154	400	610	661	879	1,711	3,731	2,479	443	106	16	673,330	680,800
1956	68	151	5,938	4,458	1,780	1,961	3,432	6,444	4,756	1,519	327	175	1,852,200	1,882,700
1957	182	272	220	237	1,104	1,883	2,289	4,564	3,168	620	176	121	876,000	894,000
1958	204	247	310	571	2,115	2,791	4,741	9,233	5,462	1,633	441	80	1,645,650	1,677,510
1959	189	181	123	598	1,195	1,414	2,489	1,865	1,142	271	58	216	567,570	584,030
1960	103	79	81	234	1,063	1,654	2,704	2,547	1,198	162	22	11	592,010	593,980
1961	0	183	191	163	433	748	1,814	1,952	963	114	80	64	395,060	403,760
1962	47	102	151	178	1,718	1,238	4,559	4,079	3,465	915	110	49	985,380	995,030
1963	233	129	310	1,095	3,896	1,088	2,619	6,787	3,685	1,030	208	126	1,247,450	1,267,790
1964	158	804	463	579	536	821	2,050	2,977	1,781	337	77	65	634,810	643,410
1965	75	368	5,986	3,601	1,874	1,639	4,045	5,002	4,092	1,557	621	170	1,708,370	1,756,710
1966	133	780	610	675	708	1,646	3,438	2,719	687	187	59	24	698,300	703,300
1967	52	415	1,852	1,460	1,457	3,193	2,963	8,015	8,243	3,454	598	234	1,880,800	1,931,500
1968	148	170	216	387	1,652	1,457	2,417	2,623	1,180	213	119	64	629,300	640,400
1969	125	647	795	5,777	3,263	2,496	5,813	9,675	5,640	1,890	395	145	2,177,600	2,210,500
1970	280	328	1,197	5,778	2,130	2,318	2,074	4,139	2,896	480	171	64	1,306,100	1,320,400
1971	86	659	1,173	1,282	1,278	1,766	2,897	3,885	3,509	1,057	181	49	1,060,100	1,074,100

Water Year	Monthly mean streamflow (cfs)											Total Volume (af)		
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Seasonal	Annual
1972	107	356	833	516	937	2,288	2,270	3,386	1,805	260	33	32	772,000	775,900
1973	195	291	729	1,900	2,303	2,048	3,549	6,785	2,828	470	99	82	1,270,300	1,281,300
1974	177	1,734	1,729	2,581	1,154	3,259	4,144	6,057	3,516	1,010	319	116	1,533,900	1,560,400
1975	0	245	376	455	1,276	2,332	2,066	6,518	5,584	1,243	307	173	1,212,300	1,241,500
1976	521	438	349	299	337	702	1,263	1,616	292	14	125	173	353,220	371,160
1977	35	76	61	96	136	218	586	723	608	0	0	36	152,800	154,970
1978	0	92	610	1,766	1,951	3,630	4,388	6,386	5,077	1,589	426	455	1,536,660	1,589,900
1979	253	126	264	1,284	1,942	2,609	3,455	6,262	2,382	459	150	125	1,147,120	1,163,800
1980	176	387	513	6,237	4,466	2,219	3,393	5,212	4,500	2,173	421	212	1,765,950	1,804,450
1981	154	124	187	653	718	1,341	2,763	2,677	960	102	47	80	583,310	591,000
1982	155	1,676	3,043	2,754	5,925	4,118	7,271	7,165	4,224	1,768	416	643	2,281,190	2,345,050
1983	1,438	2,045	2,608	2,972	4,414	6,692	3,584	8,197	10,628	4,659	1,246	486	2,846,050	2,951,580
1984	386	3,783	2,496	2,345	1,710	2,228	2,631	4,831	2,483	671	155	0	1,424,540	1,434,060
1985	179	801	507	424	866	1,279	3,461	2,784	883	56	0	39	675,710	678,040
1986	0	677	707	1,610	9,581	5,735	4,250	4,887	3,609	919	310	422	1,892,041	1,936,205
1987	217	54	145	208	520	952	1,743	1,533	455	182	97	70	361,911	372,040
1988	50	175	220	432	608	962	1,448	1,350	668	202	96	55	369,051	378,234
1989	143	100	226	286	538	2,946	3,925	2,627	1,572	383	122	22	769,506	778,307
1990	362	292	204	404	432	1,342	2,248	1,420	860	194	18	0	467,753	468,849
1991	50	35	56	47	25	1,319	1,634	2,971	1,788	347	55	103	501,676	511,161
1992	201	239	208	298	1,254	1,275	2,283	1,544	279	301	101	95	474,143	486,041
1993	98	133	432	2,961	1,949	3,808	4,177	6,619	4,048	1,238	269	46	1,537,515	1,556,779
1994	158	165	215	250	519	998	1,782	2,592	691	70	0	99	449,194	455,109
1995	83	406	416	3,733	1,803	6,742	4,639	7,878	7,724	4,248	814	299	2,280,366	2,348,240
1996	172	170	684	1,403	4,793	3,498	4,280	6,131	2,949	618	60	8	1,484,886	1,489,068
1997	108	837	4,316	10,724	1,629	2,106	3,021	3,755	1,851	356	180	74	1,743,815	1,759,268
1998	189	285	322	2,370	4,493	3,753	4,125	5,545	8,582	3,987	657	470	2,016,587	2,084,959
1999	249	522	632	1,645	3,541	2,025	2,905	6,022	3,614	793	257	291	1,314,476	1,347,543
2000	149	302	193	1,487	3,282	2,599	3,735	4,751	2,151	388	113	163	1,145,340	1,161,976
2001	217	216	193	367	644	1,559	2,246	3,253	477	82	33	61	559,370	565,033
2002	88	359	931	1,012	987	1,675	3,588	3,529	1,623	257	63	38	846,947	853,099
2003	51	512	780	938	988	1,488	2,556	5,252	2,987	325	177	83	958,355	974,196
2004	37	133	765	689	1,319	2,670	2,942	2,487	1,029	278	85	72	745,917	755,416
2005	273	391	672	2,380	1,998	3,162	3,553	8,673	4,906	1,639	247	108	1,670,521	1,692,098
2006	203	186	3,418	3,244	2,484	3,729	7,900	8,748	4,658	1,256	369	265	2,162,930	2,201,335
2007	269	204	486	451	1,411	1,831	2,102	2,081	558	90	61	6	569,066	573,193
2008	170	55	238	787	935	1,258	2,279	3,185					539,401	539,401
Average Flow (cfs)	168	424	807	1,376	1,777	2,286	3,419	4,746	3,189	965	223	117		
Average Volume (af)	10,350	25,246	49,605	84,629	99,550	140,589	203,459	291,800	189,734	59,314	13,708	6,946	1,154,276	1,174,931

TABLE B-2
Lake Alpine Water Company
 New Melones Lake Full Natural Inflow
 Data obtained June 2008 from USBR Central Valley Operations Office, Water Operations Division

Water Year	Full Natural Flow (cfs)												Total Volume (af)	
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Seasonal	Annual
1980	260	366	475	5,506	4,304	2,388	3,465	4,986	4,327	2,108	413	365	28,186	28,964
1981	313	152	191	474	550	1,143	2,468	2,486	969	357	221	63	9,103	9,387
1982	198	1,376	2,804	2,333	5,560	3,781	7,241	7,043	4,267	1,760	505	647	36,363	37,515
1983	1,406	1,868	2,358	2,561	3,948	5,812	3,041	7,758	10,527	4,464	1,180	720	43,743	45,643
1984	523	3,298	4,537	2,285	1,726	2,419	2,639	4,642	2,538	831	402	213	25,437	26,053
1985	241	738	484	414	794	1,212	3,283	2,566	988	332	253	184	11,053	11,489
1986	314	407	633	1,504	8,793	5,689	3,780	5,013	3,678	915	462	310	30,727	31,499
1987	225	114	155	184	484	792	1,534	1,243	473	231	178	82	5,436	5,695
1988	94	169	215	431	473	791	1,114	1,052	585	202	110	113	5,124	5,347
1989	162	127	191	250	457	2,583	2,764	2,062	1,313	454	267	216	10,362	10,845
1990	535	398	300	364	513	1,061	1,525	996	843	271	348	376	6,807	7,552
1991	319	160	219	188	255	1,075	1,265	2,102	1,599	474	291	430	7,657	8,378
1992	356	256	299	337	967	1,046	1,526	978	356	437	327	297	6,557	7,181
1993	239	237	470	2,386	1,904	3,429	3,248	4,728	3,448	1,398	597	388	21,488	22,472
1994	471	401	509	329	516	681	1,197	1,552	742	278	246	275	6,677	7,198
1995	263	449	589	3,283	1,997	6,057	4,493	6,813	6,678	4,320	1,338	888	34,943	37,168
1996	669	357	689	1,306	3,975	3,489	3,492	5,281	3,078	1,053	743	582	23,389	24,713
1997	623	920	3,789	10,144	3,140	2,520	2,767	3,312	1,963	804	526	668	29,982	31,177
1998	516	388	416	1,871	3,751	3,485	3,576	4,710	6,937	3,891	1,261	885	29,542	31,688
1999	589	616	675	1,478	3,207	2,386	2,786	4,545	3,251	912	559	604	20,445	21,608
2000	560	355	329	1,327	2,666	2,254	2,946	3,604	2,063	653	614	529	16,757	17,900
2001	474	447	577	406	596	1,201	1,705	2,496	636	304	252	265	8,841	9,359
2002	280	389	810	870	798	1,447	2,593	2,510	1,447	504	381	280	11,646	12,307
2003	241	512	781	900	928	1,310	2,089	4,096	2,536	777	421	358	14,170	14,949
2004	297	405	727	731	1,116	2,084	2,034	1,777	895	288	249	240	10,354	10,843
2005	425	474	729	2,044	1,839	2,878	3,225	6,882	4,856	1,881	738	591	25,232	26,560
2006	530	441	2,900	2,795	2,353	3,538	6,922	7,171	4,600	1,650	706	582	32,900	34,188
2007	543	486	531	483	1,130	1,414	1,426	1,488	674	331	297	235	8,506	9,038
Average Flow (cfs)	417	582	978	1,685	2,098	2,427	2,862	3,710	2,724	1,139	496	407		
Average Volume (af)	25,614	34,649	60,128	103,618	117,593	149,251	170,322	228,143	162,076	70,012	30,490	24,195	1,121,405	1,176,090

TABLE B-3
Lake Alpine Water Company
USGS 11294500 North Fork Stanislaus River Near Avery, CA

Water Year	Monthly mean streamflow (cfs)												Total Volume (af)	
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Seasonal	Annual
1915	55	46	55	65	165	462	1,285	1,999	1,454	229	63	59	351,020	358,404
1916	41	42	68	321	573	1,163	1,855	2,288	1,167	240	75	72	468,639	477,547
1917	75	75	152	101	229	359	1,253	1,429	1,696	229	72	70	336,841	345,432
1918	44	49	52	38	78	302	1,148	1,179	593	163	59	51	220,128	226,767
1919	46	55	86	58	128	234	907	1,585	262	71	48	33	207,788	212,721
1920	31	23	45	53	66	269	718	1,575	584	91	53	47	209,598	215,636
1921	59	310	270	254	310	764	1,107	1,724	1,395	155	79	57	382,901	391,126
1922	41	19	22	91	166	370	655	2,347	1,778	228	66	64	345,666	353,550
1923	50	46	60	61	117	399	1,168	1,600	500	200	65	66	254,256	262,197
1924	68	49	36	30	70	50	71	138	45	34	39	23	35,637	39,410
1925	57	79	133	132	900	756	1,165	2,071	1,009	300	100	60	396,141	405,860
1929	40	28	20	25	60	316	536	984	405	55	35	48	149,566	154,586
1930	37	16	134	106	247	412	1,135	939	439	73	56	58	212,889	219,772
1931	33	35	21	29	72	208	588	365	85	42	42	42	89,068	94,139
1932	34	24	45	63	229	543	1,108	2,069	1,326	192	79	77	340,575	350,045
1933	47	21	20	22	24	102	544	1,021	1,031	80	43	43	175,685	180,888
1934	48	47	114	137	179	646	567	220	151	37	28	55	129,315	134,321
1935	52	87	100	118	228	246	1,399	2,144	1,037	103	52	48	332,670	338,730
1936	55	45	47	141	418	736	1,641	1,895	897	99	47	41	360,477	365,807
1937	45	50	61	49	209	321	940	2,452	653	77	51	48	294,124	300,135
1938	48	58	1,067	203	275	604	1,397	3,111	2,123	262	53	61	553,719	560,602
1939	85	98	96	102	117	374	1,011	393	97	54	44	40	146,100	151,228
1940	62	52	58	432	512	1,157	1,491	1,897	449	59	45	45	373,299	378,732
1941	45	52	148	168	376	592	877	2,720	1,081	148	50	45	375,478	381,266
1942	47	60	346	480	391	432	1,329	1,908	1,466	186	41	37	400,607	405,348
1943	36	166	265	609	461	1,002	1,776	1,402	603	109	41	42	387,513	392,563
1944	55	51	53	68	79	201	537	1,336	434	74	50	54	175,260	181,553
1945	52	201	228	183	795	326	1,057	1,681	899	125	53	49	332,050	338,218
1946	92	183	456	345	228	504	1,296	1,617	442	80	53	55	317,231	323,739
1947	56	93	115	92	254	478	786	835	194	61	60	52	178,627	185,412
1948	60	75	53	174	89	131	665	1,744	1,233	126	56	57	263,198	270,033
1949	53	32	30	27	39	105	1,140	1,574	395	45	55	52	208,227	214,690
1950	37	31	27	103	269	429	1,276	1,917	823	95	46	49	301,988	307,745
1951	101	2,103	1,858	394	452	456	929	948	258	80	59	46	456,824	463,200
1952	44	65	145	151	265	286	1,486	3,278	1,999	446	90	70	493,905	503,598
1953	65	42	54	257	226	296	1,181	1,185	1,185	199	54	45	282,257	288,267
1954	41	42	58	69	173	580	1,401	1,207	260	66	68	47	235,217	242,212
1955	36	31	78	73	142	266	511	1,310	484	72	69	64	181,736	189,775
1956	24	23	1,552	899	403	601	1,210	2,236	1,273	193	59	58	510,769	517,872
1957	64	65	50	38	294	515	897	1,545	740	85	67	67	258,848	266,954
1958	59	28	61	74	403	377	988	3,048	1,692	283	76	61	423,418	431,733
1959	50	29	17	131	225	451	909	620	243	67	34	39	164,967	169,408
1960	22	11	14	24	195	582	989	851	199	67	35	36	178,465	182,772
1961	33	28	53	35	110	202	681	695	197	54	33	32	125,904	129,862
1962	26	20	40	41	253	231	1,602	1,555	926	110	67	50	288,845	295,927
1963	86	27	88	401	1,215	319	732	2,050	801	125	62	60	348,967	356,337
1964	68	278	203	136	170	230	719	1,031	454	71	67	57	202,997	210,526
1965	24	56	1,957	738	542	528	1,258	1,814	1,138	214	130	66	500,334	512,255
1966	64	171	120	119	127	573	1,258	738	105	45	46	41	200,285	205,560
1967	27	106	518	251	395	897	480	2,266	2,283	594	78	85	472,632	482,468
1968	67	44	59	69	429	435	891	855	210	48	32	36	187,033	191,112
1969	53	139	124	1,016	414	473	1,583	3,299	1,628	294	69	72	545,676	554,233
1970	92	78	325	1,389	522	599	742	1,449	637	108	58	40	359,253	365,170
1971	33	149	183	292	365	511	978	1,427	919	144	56	41	301,245	307,110
1972	38	81	105	89	172	824	821	1,169	371	51	38	35	225,558	229,989
1973	44	51	157	281	248	317	1,118	2,359	671	75	44	36	321,965	326,752
1974	55	574	403	754	304	840	1,082	2,038	841	166	78	32	427,156	433,844
1975	42	55	54	83	161	355	407	2,307	1,732	214	65	69	327,331	335,373
1976	134	142	92	87	78	221	399	437	60	35	42	36	102,116	106,835
1977	32	27	10	17	26	40	131	246	141	41	27	33	42,909	46,509
1978	27	19	141	303	307	890	1,149	2,221	1,487	245	68	88	410,345	419,739

Water Year	Monthly mean streamflow (cfs)												Total Volume (af)	
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Seasonal	Annual
1979	69	48	46	187	182	445	996	2,085	532	82	40	38	283,073	287,818
1980	51	110	122	1,691	950	551	1,229	1,763	1,298	376	71	54	491,596	499,132
1981	48	42	36	44	134	260	966	917	191	38	24	29	161,365	164,596
1982	53	517	1,082	434	1,603	829	2,026	2,462	1,170	301	70	113	627,321	638,343
1983	482	411	433	427	656	1,108	771	2,756	3,651	1,231	154	140	719,811	737,611
1984	107	1,145	1,151	531	355	706	914	1,500	605	108	51	44	431,222	436,989
1985	58	163	104	106	166	277	1,220	909	182	40	33	40	194,224	198,652
1986	43	99	152	491	2,105	1,785	1,248	1,592	814	101	58	48	501,492	507,951
1987	44	34	26	24	73	185	685	365	69	50	30	24	93,578	96,796
1988	23	22	46	87	149	359	531	364	102	40	30	29	104,059	107,666
1989	24	38	45	66	127	719	763	325	99	84	125	80	138,235	150,663
1990	253	188	98	122	163	299	426	203	203	196	337	273	129,651	166,617
1991	210	126	146	115	115	232	387	581	255	206	237	273	143,702	174,520
1992	180	116	118	117	199	285	464	169	168	178	177	171	120,333	141,392
1993	127	110	123	352	464	822	853	1,138	672	397	264	304	305,000	339,322
1994	337	266	369	185	175	227	338	293	162	162	167	160	152,019	171,808
1995	191	137	220	713	727	1,409	1,500	1,754	1,427	1,006	437	404	548,150	599,060
1996	362	218	227	263	876	1,058	885	1,261	572	422	427	311	370,982	415,743
1997	380	344	944	2,440	1,310	954	902	515	271	291	318	464	502,679	549,842
1998	220	133	143	294	580	921	742	1,107	1,485	1,018	672	425	400,330	466,939
1999	259	220	243	306	628	1,044	901	1,113	635	283	332	352	339,078	380,437
2000	370	172	131	300	397	467	805	685	340	290	456	362	239,119	288,698
2001	253	289	382	134	144	310	450	450	165	167	172	159	166,072	186,109
2002	170	169	174	199	214	326	779	569	202	221	200	221	182,323	207,770
2003	184	160	183	285	287	423	516	1,109	456	293	292	288	235,603	270,694
2004	292	267	251	284	234	622	631	326	189	198	200	203	199,456	223,833
2005	198	194	291	397	388	687	1,029	1,619	1,432	486	476	410	405,562	459,227
2006	358	267	1,032	756	933	895	1,452	1,650	1,218	582	367	307	550,788	591,585
2007	272	258	281	251	276	441	418	281	217	213	232	202	175,416	201,658
Average Flow (cfs)	97	145	240	274	351	517	953	1,402	761	193	110	101		
Average Volume (af)	5,976	8,622	14,757	16,868	19,639	31,792	56,718	86,222	45,264	11,869	6,777	5,996	297,727	310,501

TABLE B-4
Lake Alpine Water Company
USGS 11266500 Merced River at Pohono Bridge Near Yosemite, CA

WATER YEAR	Monthly mean streamflow (cfs)												Total Volume (af)	
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Seasonal	Annual
1917	285	108.7	93.4	80.6	156.4	250.7	1,014	2,040	3,588	909.1	208.9	83.7	513,963	531,788
1918	30.1	27.3	25.1	23.1	50.2	246.7	1,097	1,855	2,395	352.3	82.2	161.4	367,906	382,564
1919	344.7	131.2	121.6	68.7	126.8	201.7	1,276	3,049	775	180.1	54.4	30.2	380,739	385,881
1920	37.1	31.3	55.2	67.3	79.7	195.9	685.3	2,540	1,601	314.5	97.2	57.6	339,866	349,270
1921	136.5	168.4	155.1	198.6	304.7	681.3	1,252	2,261	2,371	629.9	99.1	43.5	492,313	500,995
1922	23.9	21	42.7	120.1	125.4	205.1	679.8	3,544	3,912	1,122	193.5	64.1	592,437	608,149
1923	39.8	71.3	144.5	157.7	167.2	370.8	927	2,676	1,613	856	155.7	114.6	425,671	442,064
1924	140.7	81	50.2	58.9	110.4	125.3	689.1	1,108	147.8	48.9	20.7	12.6	155,168	157,191
1925	27.5	165.3	159	142.7	324.9	589.2	1,399	2,834	1,941	694.8	220.7	48.1	500,071	516,504
1926	83	83.4	105.3	58.7	135.3	459.6	1,960	1,895	671	172.2	36.4	16.8	339,586	342,824
1927	14.9	118.9	168.4	141.8	336.9	522.8	1,233	2,891	2,646	667.5	121.9	42.3	527,541	537,553
1928	67.4	309.7	110.2	112.3	149.2	713.4	1,094	2,388	912.6	195.6	45.9	16.3	366,961	370,753
1929	11.2	16.5	21.8	31.3	54.5	224.5	521.5	1,947	1,045	257.6	55.7	25.2	250,535	255,459
1930	16.9	13.9	28.9	43.9	130.9	329.2	1,086	1,328	1,329	228.9	49.8	17.7	273,286	277,402
1931	24.4	33.8	28.4	27	61.5	195.2	715.3	969	260.4	47.2	20	11.2	142,878	144,774
1932	12.1	17.7	40.6	92.2	209.9	459.5	1,109	2,697	2,804	781.4	126.3	31.6	497,008	506,654
1933	22.2	18.6	19.4	23.5	44.5	151.7	773.2	1,211	2,119	349.7	61.9	21.4	284,970	290,050
1934	14.8	18.6	50.9	90.5	145.4	538.3	955.7	698.9	446.3	95.1	32.8	19	184,131	187,278
1935	37.2	127.4	117.5	152.1	272	301.9	1,321	2,831	2,832	575.7	126.9	45.5	516,705	527,215
1936	34.8	33.3	31.9	93.3	203.4	526.1	1,754	2,976	1,915	624.1	108.1	35.1	495,550	504,285
1937	27.4	27.1	63	55.7	246.5	323.5	1,006	3,660	2,122	508.9	81.6	26.7	486,641	493,248
1938	22.6	28.1	1,166	202.4	260.4	492.3	1,352	3,815	4,570	1,611	360.8	153.4	817,948	849,261
1939	168.6	148.9	99.1	86.9	113.4	400.2	1,430	1,095	414.9	133.2	48.1	46.5	246,867	252,592
1940	152.8	47.9	33.8	232.7	257	665.6	1,502	3,160	1,756	335.4	74.1	29.3	493,129	499,429
1941	22.5	27.6	130.5	172.5	247.6	447	721.4	3,647	3,154	1,300	257.5	54.8	597,674	616,768
1942	36.4	137.8	379.3	299.4	278.9	380.9	1,200	2,373	3,393	1,180	219.1	51.1	582,847	599,360
1943	30.2	163.1	204.2	314.4	336.6	630	1,836	2,745	1,774	674.9	146.5	46.6	525,972	537,752
1944	32.3	33.2	39.2	62.9	100.3	251.6	567	2,256	1,411	515	97.7	35	319,560	327,650
1945	22.9	139.4	160.8	135.9	468.2	277	1,165	2,415	2,217	717.4	170.4	49.7	464,827	478,262
1946	201.9	309	309	310.4	213.3	474.8	1,640	2,736	1,431	433.6	111.5	58	487,555	497,862
1947	116.2	153.2	227.6	157.4	216	427.6	1,012	1,947	638.8	147.7	45	26.6	305,368	309,718
1948	107.2	93.4	43.3	104.5	68.6	118.9	558.6	2,329	2,437	450.9	72.4	27.1	381,674	387,738
1949	23.7	27	28.6	36.8	54.5	122.6	1,248	2,370	1,295	212.7	57.7	22.6	327,773	332,666
1950	18.9	35.2	34.4	87.6	205.1	285.1	1,507	2,491	1,559	308.6	58.4	30.6	394,259	399,671
1951	37.5	1,587	1,666	445.2	429.9	498.9	1,264	1,873	1,419	407.4	79.6	27	580,969	587,470
1952	20.9	41.9	130.3	156.4	191.9	289.2	1,471	4,080	3,199	1,352	328.3	88.8	662,112	687,582
1953	40.7	35.1	67.1	195.5	188.1	275.3	1,106	1,166	1,763	695.1	97.5	36.2	333,264	341,413
1954	23.3	31.5	44.8	37.2	152.5	434.2	1,431	2,280	893.1	231.8	51.6	22.2	336,254	340,748
1955	13.7	29.7	84.8	82.9	127.5	219.9	573.2	1,812	1,589	289.3	57.4	20.8	291,387	296,154
1956	14	24.6	1,358	753.9	430.3	676.4	1,413	3,075	3,385	1,421	284.5	95.6	760,470	783,652
1957	80.1	112.8	66	56.4	213.7	312.8	819.1	1,795	2,083	342.9	84.8	33.7	354,406	361,625
1958	35.5	61	95.5	84.7	198.4	222.4	855.8	3,904	3,063	1,114	355	134.7	583,315	613,159
1959	42.1	32.3	28.2	95.6	164.6	387.5	1,148	1,144	641.4	114.9	37.5	175.2	228,974	241,705
1960	54.1	24.3	18.7	25.9	107	359.5	1,137	1,449	787.9	146.9	39.6	19.1	248,442	252,013
1961	19.3	42.5	69.2	41.6	114.3	183.3	786.3	1,003	630.9	114.7	67.4	26.5	181,201	186,922
1962	19.6	25.3	61.6	66.5	249.4	229.4	1,826	2,027	2,353	647.9	124.8	38.7	451,684	461,661
1963	53.4	31.9	35.6	126.8	1,001	345.1	574.5	2,519	2,478	898.2	185	68.1	483,731	499,158
1964	47.4	237.7	157.2	98.4	114.2	174.2	679	1,442	983.5	217.5	62.9	27.7	251,019	256,237
1965	16.9	113.6	1,348	555.5	427	474.3	1,030	2,410	2,553	1,140	409.1	103.2	609,202	640,498
1966	43.1	210.8	166.1	149.8	143.6	461.8	1,568	1,888	563.9	153.5	79.4	21.9	323,371	329,557
1967	16.6	94.8	492.6	230.6	323.4	631.5	487.7	2,807	4,239	2,533	517.7	156.4	717,521	758,660
1968	58.2	43.8	76.2	96.4	268.2	325.5	867.5	1,289	619.5	115.4	43.9	18.1	227,075	230,851
1969	24.8	214.4	135	493.3	337.5	409.1	1,624	5,305	4,052	1,587	315.9	83.2	858,331	882,706
1970	127	122.2	212.4	580.4	379.7	528.2	804.9	2,224	1,501	395.3	79.5	28.7	415,658	422,254
1971	18.5	103.3	212	259.4	309.2	379.2	860.4	1,771	2,035	570.9	116.6	39.5	393,044	402,563
1972	25.3	87.4	126.7	139.6	160.7	715.1	744.5	1,762	1,209	196.2	48.7	154.1	312,990	325,154
1973	69.5	103.8	191.7	189.2	202.6	239.5	1,001	3,711	2,256	397.8	186.7	33.8	506,294	519,785
1974	44.4	508	303.9	411	266.9	535.2	966.1	3,229	2,331	534.9	195.2	42.2	552,271	566,784
1975	30.5	42.4	69.5	106.5	152.4	289.8	360.7	2,799	3,389	712.5	127.1	66.5	480,539	492,311
1976	210.6	184.4	94.3	56.9	78.6	195.8	385	911.2	235.5	93	55.3	85.9	148,447	156,959
1977	39.7	20.8	15.1	17.3	28.1	51.5	342.8	379.1	536.8	69.3	14.7	7.38	90,309	91,652
1978	5.89	16.1	136.8	221.7	243.8	603	940.7	3,257	4,039	1,696	396.4	425.8	674,841	724,551
1979	64.1	52	84.5	302.7	214.8	457.2	948.1	3,341	1,746	389.8	93.7	35.5	460,593	468,467
1980	78	107	116.9	967.1	666.4	526.9	1,411	2,644	3,012	1,549	288.3	78.7	669,549	691,959
1981	42.9	41.9	56.7	53.4	175.1	211.8	1,069	1,668	840.9	148.1	38.8	20.7	259,963	263,580
1982	52	326.9	304.1	327.5	934.1	647.5	2,136	3,858	3,031	1,476	426.9	357.5	788,608	836,129
1983	436.1	417.6	379.1	357.7	411.4	625.2	595.4	3,223	6,279	3,460	1,045	322.1	978,234	1,061,655
1984	204.3	573.2	672	522	411.8	697.2	1,207	2,942	1,518	594.7	170.2	83.4	566,254	581,682
1985	82.4	182.3	151.9	136	167.7	260.2	1,394	1,747	686.5	160.9	59.4	57.3	300,040	307,101
1986	114.4	100.3	211.2	315.9	1,035	1,459	1,759	3,212	2,743	681.9	185.3	64.9	699,918	715,173
1987	52.9	29.7	26.2	28.5	72.4	163.1	1,012	1,109	430.3	94.1	35.3	22.6	182,231	185,747

WATER YEAR	Monthly mean streamflow (cfs)												Total Volume (af)	
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Seasonal	Annual
1988	49.5	170.7	116.4	170.8	239.3	474.3	880.9	1,108	639.7	189.3	62.6	33.3	244,038	249,869
1989	14.2	31.3	59.4	89.2	150.2	691.4	1,623	1,535	923.5	186	55.5	68.8	320,074	327,581
1990	102.5	86.4	82.5	73.9	104.3	409.4	1,103	900.9	557.9	239.1	43	19.6	220,952	224,762
1991	17.8	18.8	17.5	17.8	21	225.2	647.5	1,690	1,674	369.8	52.1	27.2	284,188	289,010
1992	26.3	98.2	58.1	73	172.4	290.5	1,185	1,165	385.5	316.1	51.2	18.6	227,821	232,076
1993	18.7	66	70	239.6	232.5	723.3	1,405	3,740	2,932	1,109	219.8	66.1	637,722	655,171
1994	33.1	27	34.6	37.4	61.2	273.9	786.8	1,188	553.9	97.2	26.1	11.9	187,110	189,423
1995	87.1	196.5	179	378.2	444.6	1,017	1,439	3,037	4,822	3,398	783.4	202.5	906,761	966,980
1996	56.6	34.9	152.1	224.8	775	760.3	1,706	3,126	1,897	635.7	156.1	49.3	565,750	578,282
1997	32	356.1	513.9	2,461	556.7	935.8	1,637	2,922	1,511	425.9	136.6	53.8	687,707	699,308
1998	29.3	32.1	65.5	174.5	284.1	614.6	1,023	2,096	4,699	3,110	530.8	234.3	732,624	779,203
1999	76	98.9	156	174	309.9	378.3	919.4	2,948	1,928	403.1	95.5	45.8	446,804	455,401
2000	25.5	31.4	26.2	90.4	217.1	420.2	1,505	2,997	1,844	525.2	89.6	43.8	452,484	460,599
2001	28.8	44.6	43.3	44.6	85.2	525.8	1,033	2,348	430.7	129.7	35.7	19.6	286,335	289,697
2002	14.1	89.6	185.3	228.5	237.4	380.4	1,638	2,091	1,242	204.8	39.9	21.8	380,751	384,502
2003	15.7	246	111.5	263.5	276.9	508.4	865.8	2,724	2,209	360.5	121.3	45.9	457,921	468,111
2004	20	26.9	137.1	174.6	195.4	1,035	1,549	1,621	757.7	185.9	45.1	19	345,235	349,139
2005	75.7	168.2	141.5	315.4	363.9	636.2	1,163	4,411	3,467	1,463	231.5	59	738,767	756,512
2006	39.5	47.6	408.4	556.9	505.6	578.4	1,456	4,771	3,682	1,113	180.5	62.2	795,784	810,584
2007	40	44.1	56.1	75.1	144.5	529	891.5	1,103	299.5	80.9	28.5	24.1	197,367	200,554
Average Flow (cfs)	61	120	182	205	250	434	1,110	2,370	1,920	645	148	64		
Average Volume (af)	3,750	7,127	11,196	12,630	13,983	26,682	66,267	145,513	114,475	39,674	9,114	3,793	441,298	454,205

TABLE B-5
Lake Alpine Water Company
Calaveras Big Trees, CA

Monthly Total Precipitation (inches)

a = 1 day missing, b = 2 days missing, c = 3 days, ...etc.,

z = 26 or more days missing, A = Accumulations present

Long-term means based on columns; thus, the monthly row may not
sum (or average) to the long-term annual value.

MAXIMUM ALLOWABLE NUMBER OF MISSING DAYS : 5

Individual Months not used for annual or monthly statistics if more than 5 days are missing.

Individual Years not used for annual statistics if any month in that year has more than 5 days missing.

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Seasonal Total	Annual Total
1948				0 z	0 z	0 z	0 z	0 z	0 z	0	0	0.12	-	-
1949	1.29	1.93	10.79 d	5.6	8.58 a	12.45	0.03	1.49	0	0	0.23	0.35	42.16	42.74
1950	0.46	5.5	3.88 a	17.56	7.06	8.58 f	5.61	2.54	0.43	0	0	0.35	-	-
1951	8.19	19.66	15.35	10.64	4.71	5.96	3.3 e	3.43	0	0	0	0	71.24	71.24
1952	4.49	9.22	20.41	18.97	8.93	10.12	2.37	1.1	0.77	0.5	0	0 g	76.88	-
1953	0	3.94	11.82 e	8.43	0	7.66	6.56	2.44	1.71	0	0	0.04	42.56	42.6
1954	2.03 d	4.14	0.65 f	9.1	2.12 f	9.81 h	4.22	0.91	1.89	0	0	0	-	-
1955	0	5.05	9.54	7.56	4.33	1.71	6.62	1.31	0.03	0	0	0.17	36.15	36.32
1956	0.01	5.01	34.2	15.17	5.31	0.88	5.4	5.05	0.15	0	0	1.04	71.18	72.22
1957	4.88	0.05	3.3	7.5	9.83	8.4	3.1	8.67	0.16	0	0	0.25	45.89	46.14
1958	3.16	2.98	7.42	10.21	15.98	17.52	10.43	2.52	1.46	0	0 j	0.4	71.68	-
1959	0	1.75	1.75	11.44	12.09	2.53	1.28	1.49	0	0	0.47	5.19	32.33	37.99
1960	0	0	2.75	9.43	12.88	5.95	4.93	0.49	0	0	0	0.27	36.43	36.7
1961	1.05	8.67	3.12	0.29 g	3.54	7.94	3.21	1.9	0.22	0.25	0.03	2.03	-	-
1962	1.11	4.5	4.71	3.52	22.86	8.47	1.76	0.74	0.04	0.09	0	0.28	47.8	48.08
1963	7.36	1.34	3.82	11.39	11.27	8.61	13.04	3.71	1.05	0	0	0.5	61.59	62.09
1964	3.87	0 z	1.15	9.12	0.63	7.1	2.93	3.99	2.33	0	0	0.57	-	-
1965	3.25	10.19	32.41	11.96	2.71	4.13	9.29	0.18	1.11	0	1.74	0.44	75.23	77.41
1966	0.86	15.34	8.97	2.84	3.93	1.44	3	0.4	0.08	0.14	0	0.11	37	37.11
1967	0	11.19	12.48	14.38	1.04	16.1	14.24	2.24	1.65	0	0	0.97	73.32	74.29
1968	1.82	4.03	8.16	7.75	6.25	5.27	0.73	1.26	0	0.08	1.34	0	35.35	36.69
1969	3.32	8.33	12.77	33.98	16.1	4.42	5.48	0.07	0.89	0	0	0.69	85.36	86.05
1970	6.62	3.53	11.75	23.17	4.84	5.11	4.25	0	2.28	0	0	0	61.55	61.55
1971	1.55	14.19	16.54	6.01	1.62	6.24	1.29	2.28	1.16	0	0	0.87	50.88	51.75
1972	0.97	7.29	13.59	3.61	2.85	1.16	4.94	0.19	0.27	0	0	0.32	34.87	35.19
1973	1.47	7.39	7.09	13.75	10.05	6.57	1.67	0.6	0.32	0	0	0.09	48.91	49
1974	4.62	0 z	12.7	8.81	2.95	17.64	5.99	0.12	0.11	3.51	0	0	-	-
1975	4.77	3.04	5.44	5.84	15.5	15.05	7.82	0.77	0.45	0.14	1.72	0.2	58.82	60.74
1976	8.01	2.4	1.07	0.47	4.81	4.9	3.09	0.62	0.02	0.08	3.58	1.11	25.47	30.16
1977	0.75	2.17	0.46	4.25	3.58	2.6	0.49	3.8	0.06	0.16	0	0.66	18.32	18.98
1978	0.03	6.35	13.12	18.97	10.91	13.4	12.08	0.09	0.39	0	0	5.12	75.34	80.46
1979	0	4.67	5.77	13.12	13.46	9.77	2.63	2.84	0	0.33	0	0	52.59	52.59
1980	5	6.01	8.14	24.63	18.75	4.29	3.96	2.31	0.66	0.3	0	0.07	74.05	74.12
1981	0.45	0.5	4.76	14.32	3.42	10.08	2.2	1.53	0	0.09	0	0.4	37.35	37.75
1982	6.38	15.92	12.4	15.7	11.13	19.29	11.33	0.4	0.63	0.07	0.04	4.38	93.25	97.67
1983	10.9	14	12.48	13.33	18.59	20.06	6.81	1.34	0.13	0	0.52	2.59	97.64	100.75
1984	1.7	23.98	20.07	0.5	6.48	5.62	3.07	1.03	1.53	0	0	0.09	63.98	64.07
1985	4.61	12.59	2.89	2.15	5.29	9.24	1.09	0	0.9	0.33	0.15	2.16	39.09	41.4
1986	2.59	11.18	6.49	8.61	36.32	11.84	2.66	1.71	0	0.4	0	3.15	81.8	84.95
1987	0.14	0.66	1.75	5.12	7.89	8.71	1.01	1.73	0	0	0	0	27.01	27.01
1988	2.9	2.95	8.15 a	5.76	0.69	1.89	5.35	2.23	0.51	0	0	0.02	30.43	30.45
1989	0.04	8.48	7.51	2.29	3.99	14.34	1.94	1.06	0	0	0.1	4.58	39.65	44.33
1990	9.15	4.19	0	6.14	5.6	4.41	2.37	5.7	0	0.19	0.2	0.31	37.75	38.26
1991	0.7	1.91	1.59	0.65	2.45	19.25	2.02	2.97	1.58	0	0.05	0.46	33.12	33.63
1992	6.09	2.63	2.9	2.11	10.76	6.3	0.66	0.17	1.68	2.47	0.03	0.06	35.77	35.86
1993	5.7	0.64	18.46	20.96	13.3	7.59	2.54	1.88	3.51	0	0	0	74.58	74.58
1994	2.2	2.92	3.34	4.04	10.71	0.87	5.36	1.81	0	0	0	0.71	31.25	31.96
1995	1.98	11.37	6.25	25.07	1.7	25.31	10.01	8.45	1.99	0	0	0	92.13	92.13
1996	0	0.43	11.89	15.24 b	15.37	6.97	5.28	4.94	1.18	0	0.01	0.3	61.3	61.61
1997	2.93	8.05	23.56 a	28.09	1.13	0.55	1.27	0.8	2.21	0.25	0.01	0.27	68.84	69.12
1998	2.31	7.56	5.42	18.99	22.14	7.6	6.97	7.22	1.16	0	0	2.1	79.37	81.47
1999	0.64	7.01	5.49	13.65	17.35 a	5.25	4.86	1.73	0.98	0	0.09	0.06	56.96	57.11

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Seasonal Total	Annual Total
2000	1.9	4.24	0.98	20.9	19.44	3.74	3.31	5.02	0.85	0	0.04	1.94	60.38	62.36
2001	5.12	1.95	2.06	7.25	9.24	3.96 b	7.47	0	0.15	0.1	0	0.72	37.3	38.02
2002	1.37	9.65	14.02	3.6	4.43	8.7	2.76	2.78	0	0	0	0	47.31	47.31
2003	0	6.96	14.72	1.71	4.34	4.45	12.79	0 z	0	0	1.32	0	-	-
2004	0.04	4.46	17.25 a	3.97 a	10.57 a	1.95	0.58 a	0.59	0	0	0	0	39.41	39.41
2005	9.22	3.2	12.42	14.53	7.52	11.48	3.52	5.89	1.85 a	0	0	1.42 f	69.63	-
2006	1.34	4.17	21.67	11.36	6.38 a	16.04 a	12.71 a	2.55	0	0	0	0	76.22	76.22
2007	1.71	4.41	6.85	2.2	15.39	0.39	3.38	1.88	0.34	0	0	0.31	36.55	36.86
2008	2.2 b	1.42	0 z										-	-
Average	28	62	95	106	89	81	47	22	07	02	02	08	5453	5453
No.Years	60	58	58	58	58	57	59	58	59	60	59	58	50	50

Source: Western Regional Climate Center (<http://www.wrcc.dri.edu/cgi-bin/cliMAIN.pl?ca1277>), accessed 6/19/2008.