

**Exhibit WDCWA-103**

**Cumulative Conditions  
And  
Cumulative Conditions Without Project  
CalSim II Modeling**

Davis Woodland Project Diversion

Year Type	Water Year	Cumulative Condition												Total
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
AN	1922	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	4.8	0.0	0.0	0.0	31.5
BN	1923	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	0.0	0.0	0.0	4.8	31.5
C	1924	4.7	3.2	2.6	2.5	2.3	3.0	0.0	0.0	0.0	0.0	0.0	4.8	22.9
D	1925	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	0.0	0.0	0.0	4.8	31.5
D	1926	4.7	3.2	2.6	2.5	2.3	3.0	3.7	0.0	0.0	0.0	0.0	4.8	26.6
W	1927	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	4.8	0.0	0.0	0.0	31.5
AN	1928	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	0.0	0.0	0.0	0.0	26.7
C	1929	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	0.0	0.0	0.0	4.8	31.5
D	1930	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	0.0	0.0	0.0	4.8	31.5
C	1931	4.7	3.2	2.6	2.5	2.3	3.0	0.0	0.0	0.0	0.0	0.0	4.8	22.9
D	1932	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	4.8	0.0	0.0	4.8	36.3
C	1933	0.0	3.2	2.6	2.5	2.3	3.0	3.7	4.9	0.0	0.0	0.0	4.8	26.9
C	1934	4.7	3.2	2.6	2.5	2.3	3.0	3.7	0.0	0.0	0.0	0.0	4.8	26.6
BN	1935	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	4.8	0.0	0.0	4.8	36.3
BN	1936	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	4.8	0.0	0.0	4.8	36.3
BN	1937	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	0.0	0.0	0.0	4.8	31.5
W	1938	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	4.8	4.9	4.9	0.0	41.4
D	1939	4.7	3.2	2.6	2.5	2.3	3.0	3.7	0.0	0.0	0.0	0.0	4.8	26.6
AN	1940	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	0.0	0.0	0.0	0.0	26.7
W	1941	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	4.8	0.0	4.9	0.0	36.4
W	1942	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	4.8	4.9	4.9	0.0	41.4
W	1943	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	4.8	0.0	0.0	0.0	31.5
D	1944	4.7	0.0	2.6	2.5	2.3	3.0	3.7	4.9	0.0	0.0	0.0	4.8	28.3
BN	1945	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	4.8	0.0	0.0	4.8	36.3
BN	1946	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	0.0	0.0	0.0	4.8	31.5
D	1947	4.7	3.2	2.6	2.5	2.3	3.0	3.7	0.0	0.0	0.0	0.0	4.8	26.6
BN	1948	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	4.8	0.0	0.0	4.8	36.3
D	1949	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	0.0	0.0	0.0	4.8	31.5
BN	1950	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	4.8	0.0	0.0	4.8	36.3
AN	1951	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	0.0	0.0	0.0	0.0	26.7
W	1952	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	4.8	4.9	4.9	0.0	41.4
W	1953	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	4.8	0.0	4.9	0.0	36.4
AN	1954	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	0.0	0.0	0.0	0.0	26.7
D	1955	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	0.0	0.0	0.0	4.8	31.5
W	1956	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	4.8	4.9	4.9	0.0	41.4
AN	1957	4.7	0.0	2.6	2.5	2.3	3.0	3.7	4.9	4.8	0.0	0.0	4.8	33.1
W	1958	4.7	3.2	2.6	2.5	2.3	0.0	3.7	4.9	4.8	4.9	4.9	0.0	38.4
BN	1959	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	0.0	0.0	0.0	4.8	31.5
D	1960	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	0.0	0.0	0.0	4.8	31.5
D	1961	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	0.0	0.0	0.0	4.8	31.5
BN	1962	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	0.0	0.0	0.0	4.8	31.5
W	1963	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	4.8	0.0	4.9	0.0	36.4
D	1964	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	0.0	0.0	0.0	4.8	31.5
W	1965	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	4.8	0.0	4.9	0.0	36.4
BN	1966	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	0.0	0.0	0.0	4.8	31.5
W	1967	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	4.8	4.9	4.9	0.0	41.4
BN	1968	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	0.0	0.0	4.9	4.8	36.4
W	1969	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	4.8	4.9	4.9	0.0	41.4
W	1970	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	0.0	0.0	4.9	0.0	31.7
W	1971	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	4.8	0.0	4.9	0.0	36.4
BN	1972	4.7	0.0	2.6	2.5	2.3	3.0	3.7	4.9	0.0	0.0	0.0	4.8	28.3
AN	1973	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	0.0	0.0	4.9	0.0	31.7
W	1974	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	4.8	4.9	4.9	0.0	41.4
W	1975	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	4.8	0.0	4.9	0.0	36.4
C	1976	4.7	3.2	2.6	2.5	2.3	3.0	3.7	0.0	0.0	0.0	0.0	4.8	26.6
C	1977	0.0	3.2	2.6	2.5	2.3	3.0	0.0	0.0	0.0	0.0	0.0	4.8	18.3
AN	1978	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	4.8	0.0	4.9	4.8	41.2
BN	1979	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	0.0	0.0	4.9	4.8	36.4
AN	1980	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	4.8	0.0	4.9	0.0	36.4
D	1981	4.7	0.0	2.6	2.5	2.3	3.0	3.7	0.0	0.0	0.0	0.0	4.8	23.5
W	1982	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	4.8	4.9	4.9	4.8	46.1
W	1983	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	4.8	4.9	4.9	0.0	41.4
W	1984	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	0.0	0.0	4.9	0.0	31.7
D	1985	4.7	3.2	2.6	2.5	2.3	3.0	3.7	0.0	0.0	0.0	0.0	4.8	26.6
W	1986	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	4.8	0.0	4.9	0.0	36.4
D	1987	4.7	0.0	2.6	2.5	2.3	3.0	3.7	0.0	0.0	0.0	0.0	4.8	23.5
C	1988	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	0.0	0.0	0.0	4.8	31.5
D	1989	4.7	3.2	2.6	2.5	2.3	3.0	3.7	0.0	0.0	0.0	0.0	4.8	26.6
C	1990	4.7	3.2	2.6	2.5	2.3	3.0	0.0	4.9	0.0	0.0	0.0	4.8	27.8
C	1991	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	0.0	0.0	0.0	4.8	31.5
C	1992	4.7	3.2	2.6	2.5	2.3	3.0	3.7	0.0	0.0	0.0	0.0	4.8	26.6
AN	1993	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	4.8	0.0	4.9	0.0	36.4
C	1994	4.7	3.2	2.6	2.5	2.3	3.0	0.0	4.9	0.0	0.0	0.0	4.8	27.8
W	1995	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	4.8	4.9	4.9	4.8	46.1
W	1996	0.0	0.0	2.6	2.5	2.3	3.0	3.7	4.9	4.8	0.0	4.9	0.0	28.6
W	1997	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	0.0	0.0	4.9	0.0	31.7
W	1998	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	4.8	4.9	4.9	0.0	41.4
W	1999	4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	4.8	0.0	4.9	0.0	36.4
AN	2000	4.7	0.0	2.6	2.5	2.3	3.0	3.7	4.9	0.0	0.0	4.9	0.0	28.5
D	2001	4.7	0.0	2.6	2.5	2.3	3.0	3.7	0.0	0.0	0.0	0.0	4.8	23.5
D	2002	0.0	3.2	2.6	2.5	2.3	3.0	3.7	4.9	0.0	0.0	0.0	4.8	26.9
AN	2003	0.0	3.2	2.6	2.5	2.3	3.0	3.7	4.9	4.8	0.0	4.9	0.0	31.8
Avg.		4.4	2.9	2.6	2.5	2.3	2.9	3.5	4.0	2.0	0.7	1.9	2.8	32.5
Max		4.7	3.2	2.6	2.5	2.3	3.0	3.7	4.9	4.8	4.9	4.9	4.8	46.1
Min		0.0	0.0	2.6	2.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.3

Year type is based on Sacramento River 40-30-30 index: Wet (W), Above Normal (AN), Below Normal (BN), Dry (D), Critical (C)  
 Shaded periods indicate that Term 91 diversion prohibition is in effect

### Percent of time Term 91 curtailments are in effect

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
2007 EIR	0%	3%	0%	0%	0%	1%	11%	22%	67%	95%	88%	10%
Updated	6%	10%	0%	0%	0%	1%	6%	17%	57%	85%	61%	41%

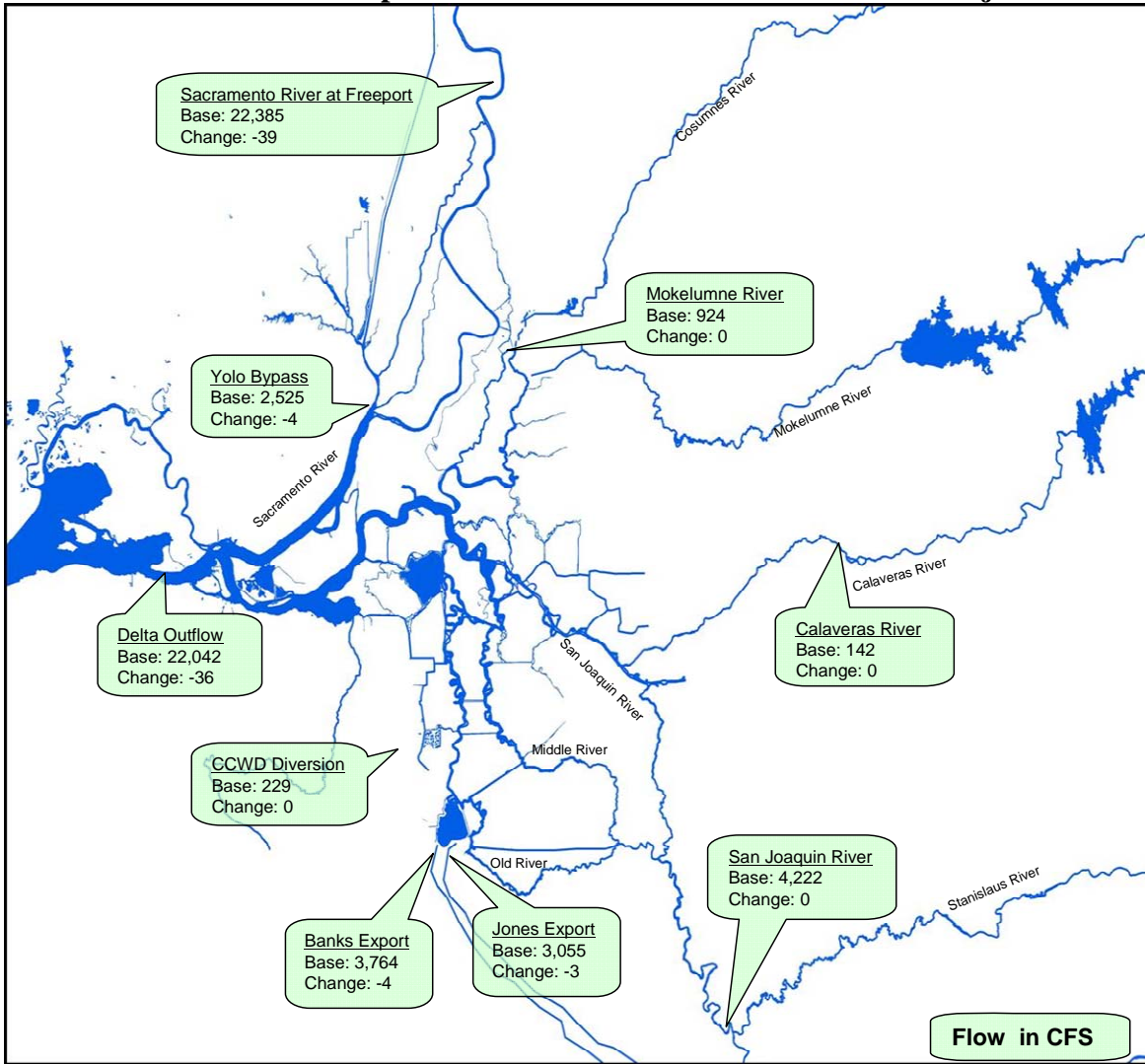
## Summary Results, Cumulative Conditions Compared to Cumulative Conditions Without Project

Items	Cumulative Condition without Project Conditions		Cumulative Condition		Difference: Cumulative Condition minus Cumulative Condition without Project Conditions	
	Long-Term	Dry Periods	Long-Term	Dry Periods	Long-Term	Dry Periods
<b>DWWSP (1,000 AF/year)<sup>1</sup></b>						
Water Right diversion	0	0	33	28	33	28
<b>Delta (1,000 AF/year)<sup>1</sup></b>						
Export at Banks Pumping Plant	2,731	1,620	2,729	1,618	-2	-2
Export at Tracy Pumping Plant	2,216	1,546	2,213	1,541	-2	-4
Total exports	4,947	3,166	4,942	3,159	-5	-7
Contra Costa Water District diversion	167	169	167	169	0	0
North Bay Aqueduct/City of Vallejo	75	52	75	52	0	0
Georgiana Slough	2,743	1,732	2,739	1,730	-4	-2
Delta Cross Channel	1,053	1,012	1,052	1,011	-1	-1
Total Delta inflow	21,873	10,129	21,842	10,112	-31	-18
Net Delta outflow	15,851	5,756	15,825	5,746	-26	-11
QWEST	2,069	266	2,069	269	0	3
Surplus Delta outflow	10,636	1,456	10,607	1,444	-30	-13
<b>River Flows (cfs)<sup>1</sup></b>						
Trinity River below Lewiston	950	601	949	601	0	0
Sacramento River below Keswick	8,647	6,098	8,647	6,108	0	10
Sacramento River below NCP	9,179	6,114	9,182	6,126	3	11
Sacramento River below DWWSP	18,503	9,708	18,461	9,682	-42	-26
Sacramento River below Freepoint	22,385	11,841	22,345	11,816	-39	-24
Feather River below Thermalito	4,389	2,177	4,389	2,178	1	1
Feather River at mouth	7,767	3,264	7,767	3,265	0	1
American River below Nimbus	3,325	1,562	3,326	1,563	0	1
American River at H Street	3,131	1,376	3,131	1,377	0	1
Calaveras River below Bellota Weir	142	9	142	9	0	0
San Joaquin River at Vernalis	4,422	1,877	4,422	1,877	0	0
<b>Reservoir Carryover Storage (1,000 AF)<sup>1</sup></b>						
Trinity Lake	1,401	753	1,399	745	-2	-9
Whiskeytown Lake	233	224	233	223	0	-1
Lake Shasta	2,666	1,538	2,662	1,524	-4	-13
Folsom Lake	497	294	496	293	-1	-2
CVP total NOD storage	4,796	2,810	4,790	2,785	-7	-24
CVP San Luis Reservoir	199	256	200	258	0	2
Lake Oroville	1,832	1,061	1,826	1,057	-6	-4
SWP San Luis Reservoir	378	305	377	304	-1	-1
New Hogan Reservoir	146	80	146	80	0	0
New Melones Reservoir	1,276	628	1,276	628	0	0
<b>CVP-SWP Deliveries (1,000 AF/year)<sup>2</sup></b>						
CVP NOD agricultural deliveries	218	38	218	37	-1	-1
CVP NOD M&I deliveries	215	157	215	155	0	-1
CVP SOD agricultural deliveries	883	188	881	183	-2	-5
CVP SOD M&I deliveries	117	88	117	88	0	0
SWP Table A deliveries	2,495	1,347	2,492	1,346	-3	-1
SWP Article 21 deliveries	59	73	60	73	1	0

<sup>1</sup> Dry periods are water-year based (Oct 1928 - Sep 1934, Oct 1975 - Sep 1977, and Oct 1986 - Sep 1992)

<sup>2</sup> Dry periods for CVP and SWP deliveries are contract-year based (CVP: Mar 1929 - Feb 1935, Mar 1976 - Feb 1978, and Mar 1987 - Feb 1993, SWP: Jan 1929 - Dec 1934, Jan 1976 - Dec 1977, Jan 1987 - Dec 1992).

**Average annual Delta Flows,  
Cumulative Conditions compared to Cumulative Conditions without Project**



**Delta Outflow**

Water Year	Cumulative Condition without Project Conditions							Flow in CFS					
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
1922	4000	4500	9187	12820	38616	27477	30117	56933	37119	8000	4000	13750	
1923	5938	11250	29356	28653	15652	9606	29450	18586	6844	6791	4011	3604	
1924	4000	4500	4500	8371	13420	9371	7208	4671	4000	4576	4600	3000	
1925	3000	4374	8201	8458	70661	13536	30246	17365	5379	5000	4718	3099	
1926	4000	4500	4500	14311	45685	12516	28153	9661	5625	5290	4233	3135	
1927	4000	14175	14657	32374	121555	41650	53826	27655	13261	8000	4000	20156	
1928	7656	15938	6588	21122	23059	82068	28705	11474	8529	10621	4000	11563	
1929	5938	10625	4616	8841	12418	9013	8617	7100	7243	4000	4419	3000	
1930	3000	4010	13113	19542	16885	29249	12846	9731	6719	5000	4591	3135	
1931	4000	4500	4500	10267	8293	7908	7817	4680	4000	4000	4724	3000	
1932	3000	4860	14463	17413	13950	10781	12465	14184	9920	5000	3556	3000	
1933	5104	4500	4500	11976	7842	13657	9319	7547	7243	4000	4243	3000	
1934	3000	4685	9488	14720	14980	10313	9673	7031	7100	4000	4083	3000	
1935	3043	7030	3844	29107	10062	26544	56320	20169	8211	6500	4000	3000	
1936	4275	4500	4669	41513	77919	32607	28934	17211	9243	6500	4000	3371	
1937	4000	4500	4752	11345	46982	48139	29438	18381	11076	6500	4000	3000	
1938	4000	17784	65477	29399	144905	166617	79357	68226	37036	8000	4000	20625	
1939	7500	13734	4538	7122	8117	10355	10226	10019	5310	5235	4732	3000	
1940	4000	4500	4500	34494	65564	110143	73504	18438	5968	10243	4000	11563	
1941	5938	10625	37093	97455	117328	89010	79547	47744	13099	8000	4000	20938	
1942	7656	14118	46253	78293	136637	23934	57009	40618	22485	8000	4000	21094	
1943	7188	16250	15500	77404	55024	86076	35058	19362	7347	10756	4000	19375	
1944	7500	12487	4748	11627	23663	18803	13677	10766	6508	5000	4027	3000	
1945	4095	6097	12051	9479	52401	23439	17037	15053	7008	6544	4206	3430	
1946	4000	6029	69838	46617	15036	19408	18165	16744	6365	7181	4000	3801	
1947	4000	4500	8860	7765	14435	20070	12480	8436	7100	5000	4975	3738	
1948	4000	4500	4500	13017	11145	13276	29056	29814	13753	6500	4000	3785	
1949	4000	4500	7281	7624	9178	46472	13714	11897	6713	5000	4923	4586	
1950	4000	4500	4500	19596	35650	16645	22405	15884	7445	6897	4000	3810	
1951	4003	46070	98811	66754	69224	28473	19605	19886	6076	11207	4000	10781	
1952	6563	10313	37422	82553	74024	62524	76060	73783	36956	10397	5336	20469	
1953	8438	13257	28400	99275	21422	17459	20171	27578	20457	8000	4000	19688	
1954	8125	15469	4500	23631	52502	45191	45196	13658	7322	11460	4000	11563	
1955	6250	10313	13807	17381	8906	7886	12606	11458	6478	5000	4917	3000	
1956	4246	4500	90726	160487	84550	37267	24148	45963	18835	8000	4000	20938	
1957	7813	13626	4538	9578	16648	41239	15346	23034	6353	10362	4000	11875	
1958	5938	10313	18226	39404	152575	116151	104980	54191	30285	8000	5462	18750	
1959	8750	13510	4767	22592	49349	11865	11454	10375	6563	8646	4000	3489	
1960	4000	4500	4500	9462	28754	18591	11708	10129	5818	5591	4687	3000	
1961	4187	6835	8381	9736	33528	14164	8860	8371	7100	5414	5585	3965	
1962	4000	4500	11886	5650	54055	20239	16390	14331	5877	7977	4000	3050	
1963	28173	5490	23507	16304	73051	23834	98764	30404	8562	10633	4000	20078	
1964	7813	15625	4520	21008	9619	7735	10356	10662	7041	5000	4353	3000	
1965	4209	12058	83357	113528	33140	17489	51954	20675	9670	8704	4000	19922	
1966	7813	15469	7548	24933	21104	18369	16149	9898	6422	8382	4000	3481	
1967	4000	10111	33912	50244	52776	58747	59189	56765	41175	13798	4072	20313	
1968	7656	13732	5263	23122	58288	30336	12445	11853	5511	9190	4000	3135	
1969	4000	6600	14348	124836	131919	64325	59388	63262	31467	8000	4000	21875	
1970	7188	14548	45727	207405	75624	36330	14330	14778	7264	11200	4000	18438	
1971	8438	15313	50646	48050	19011	40262	26970	31507	14612	8000	4000	19219	
1972	8281	14417	7197	11845	15721	27377	13017	10979	6010	9133	4000	3558	
1973	4000	13175	21893	83724	88972	54741	20344	18885	9383	8492	4000	11719	
1974	6250	50997	64744	131781	38833	107539	70494	24618	15123	8000	4912	19375	
1975	7969	14455	5379	9624	56226	84745	27878	32827	20337	8000	4000	19688	
1976	8125	15938	4500	7141	7990	10008	9878	4296	4000	4652	4232	3147	
1977	5283	3500	4651	6701	7714	7239	7100	4000	4000	4000	4748	3000	
1978	3357	5102	10788	67393	51037	68081	47816	24877	13017	8000	4000	11563	
1979	5938	10625	4631	21812	34171	27330	20189	19701	8067	6500	4000	3146	
1980	4000	9603	11541	107993	132115	61629	23475	19190	12045	8000	4000	11563	
1981	6250	10313	5255	19364	20631	22803	15540	10380	6094	5000	4758	4061	
1982	4000	26656	86589	75463	99166	82985	140920	46917	20195	8000	4000	19375	
1983	14350	41563	82407	106681	178037	259317	89336	77151	70021	34925	14710	22659	
1984	10479	79071	156721	63498	36638	34609	18704	14735	7700	10355	4000	19063	
1985	8281	19192	12330	10291	11620	11833	13959	10448	6250	5000	4473	4247	
1986	4000	4500	11356	22266	212825	145915	28190	19088	10097	8000	4000	18438	
1987	8125	12610	4500	9716	16107	23110	9251	9885	6875	5000	4050	3000	
1988	4000	4500	13077	26734	13310	6219	11307	6630	7100	4000	3646	3000	
1989	3860	4170	5515	7843	8636	48656	20633	10814	5938	5563	4876	3608	
1990	4000	4500	4549	14798	11400	11417	9713	5838	4000	4000	4381	3000	
1991	3987	3500	4733	5427	7879	33964	10938	5020	4000	4726	4464	3000	
1992	3549	4239	3500	9330	33368	16713	9527	6144	7100	4000	3344	3000	
1993	4755	3500	8827	63621	55730	36179	41919	30552	22885	8000	4000	12500	
1994	6250	10625	5241	9025	19574	8042	10886	7988	4000	4297	6057	3000	
1995	3601	4209	8788	111131	45529	212866	69169	84157	40310	21742	8582	14375	
1996	11563	12433	20419	47709	123046	68290	47873	48984	10826	8000	4000	21250	
1997	7813	15625	77814	278491	71987	21741	20066	14490	7021	11228	4000	18750	
1998	7813	15313	9716	48591	221178	81321	64848	59003	73119	27991	11633	18973	
1999	8921	20249	30623	40235	93038	60117	31303	22556	10920	8228	4000	19922	
2000	7500	15237	4538	21935	111221	63157	22965	19385	5750	10728	4000	11719	
2001	5781	10469	4500	13274	24474	22821	12570	7922	7100	5000	4457	3000	
2002	4000	5869	28020	49125	14232	17004	16734	12442	5016	5000	5816	3415	
2003	4000	5267	35095	60843	22006	18323	28601	39702	6602	9851	4000	11563	
Avg.	5945	11727	21711	42318	51604	42723	31044	22646	12541	7957	4532	9759	
Max	28173	79071	156721	278491	221178	259317	140920	84157	73119	34925	14710	22659	
Min	3000	3500	3500	5427	7714	6219	7100	4000	4000	4000	3344	3000	

**Delta Outflow**

Water Year	Cumulative Condition				Flow in CFS								
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
1922	4000	4500	9145	12780	38576	27428	30055	56854	37039	8000	4000	13750	
1923	5938	11250	29300	28613	15652	9575	29383	18507	6845	6796	4010	3579	
1924	4000	4500	4500	8330	13381	9371	7208	4564	4000	4620	4573	3000	
1925	3000	4345	8191	8417	70625	13487	30184	17287	5379	5000	4726	3045	
1926	4000	4500	4500	14269	45652	12516	28089	9792	5625	5269	4254	3135	
1927	4000	14109	14610	32340	121281	41558	53761	27575	13180	8000	4000	20156	
1928	7656	15938	6543	21082	23020	81925	28645	11396	8544	10624	4000	11563	
1929	5938	10625	4606	8802	12378	9013	8554	7100	7243	4000	4423	3000	
1930	3000	4013	13078	19500	16842	29209	12779	9648	6719	5000	4587	3135	
1931	4000	4500	4500	10224	8313	7862	7817	4680	4000	4000	4728	3000	
1932	3000	4856	14421	17375	13943	10781	12402	14106	9920	5000	3573	3000	
1933	5084	4500	4500	11884	7799	13606	9319	7467	7243	4000	4247	3000	
1934	3000	4686	9458	14682	14943	10313	9673	7031	7100	4000	4081	3000	
1935	3000	7205	3823	29060	10032	26494	56260	20089	8211	6500	4000	3000	
1936	4279	4500	4630	41429	77125	32560	28870	17131	9163	6500	4000	3348	
1937	4000	4500	4766	11304	46941	48091	29375	18302	11113	6500	4000	3000	
1938	4000	17657	65435	29137	144866	166569	79294	68146	36955	8000	4000	20625	
1939	7500	13734	4538	7081	8117	10306	10164	10050	5303	5237	4728	3000	
1940	4000	4500	4500	34455	65475	109910	73444	18360	5968	10255	4000	11563	
1941	5938	10625	37009	97405	117302	88962	79484	47665	13019	8000	4000	20938	
1942	7656	14118	46110	78254	136597	23886	56947	40539	22405	8000	4000	21094	
1943	7188	16250	15438	77128	54986	86027	34995	19282	7267	10875	4000	19375	
1944	7500	12487	4737	11586	23624	18755	13615	10687	6508	5000	4031	3000	
1945	4086	6039	12007	9435	52362	23393	16975	14974	7206	6500	4217	3347	
1946	4000	6007	69794	46577	15036	19097	18104	16665	6515	7081	4000	3808	
1947	4000	4500	8820	7724	14394	20031	12415	8440	7100	5000	4976	3735	
1948	4000	4500	4500	12974	11145	13225	28997	29735	13666	6500	4000	3785	
1949	4000	4500	7249	7583	9137	46424	13651	11818	6753	5000	4921	4596	
1950	4000	4500	4500	19550	35605	16597	22345	15805	7368	6959	4000	3791	
1951	4000	45875	98424	66583	69187	28424	19542	19806	6089	11203	4000	10781	
1952	6563	10313	37299	82515	73972	62471	75997	73704	36876	10316	5256	20625	
1953	8438	13257	28233	99216	21381	17410	20108	27498	20377	8000	4000	19688	
1954	8125	15469	4500	23515	52443	44980	45134	13579	7328	11464	4000	11563	
1955	6250	10313	13764	17340	8906	7854	12543	11379	6478	5000	4911	3000	
1956	4240	4500	90591	160403	84478	37219	24085	45883	18755	8000	4000	20938	
1957	7813	13626	4538	9536	16607	40976	15284	22956	6364	10363	4000	11875	
1958	5938	10313	18184	39350	152416	116152	104918	54112	30205	8000	5382	18750	
1959	8750	13510	4754	22480	49196	11816	11391	10296	6563	8663	4000	3491	
1960	4000	4500	4500	9422	28715	18330	11875	10049	5818	5600	4682	3000	
1961	4196	6786	8140	9696	33479	14115	8860	8376	7100	5416	5581	3960	
1962	4000	4500	11855	5611	53799	20195	16327	14331	5877	7978	4000	3052	
1963	28077	5363	23470	16261	72587	23787	98700	30324	8482	10718	4000	19922	
1964	7813	15625	4505	20968	9593	7704	10334	9983	7071	5000	4349	3000	
1965	4207	12005	83084	113489	33099	17440	51891	20595	9590	8764	4000	19844	
1966	7813	15469	7505	24892	21063	18282	16079	9819	6422	8402	4000	3473	
1967	4000	10058	33813	50204	52518	58699	59126	56685	41095	13718	4000	20469	
1968	7500	13732	5263	22987	58236	30288	12384	11775	5536	9185	4000	3135	
1969	4000	6569	14306	124620	131888	64276	59324	63183	31387	8000	4000	21875	
1970	7188	14548	45470	207366	75584	36282	14267	14699	7283	11196	4000	18438	
1971	8438	15313	50518	48011	18970	40108	26908	31428	14531	8000	4000	19219	
1972	8281	14417	7155	11805	15682	27183	12955	10900	6010	9151	4000	3552	
1973	4000	13084	21851	83661	88931	54693	20282	18806	9383	8499	4000	11719	
1974	6250	50956	64553	131741	38792	107490	70431	24539	15043	8000	4831	19375	
1975	7969	14455	5364	9584	56075	84631	27816	32747	20257	8000	4000	19688	
1976	8125	15938	4500	7100	7990	9960	9815	4296	4000	4656	4231	3147	
1977	5273	3500	4667	6663	7714	7239	7100	4000	4000	4000	4652	3000	
1978	3555	4560	11014	67273	50744	67563	47752	24797	12934	8000	4000	11563	
1979	5938	10625	4617	21773	34105	27283	20129	19621	8150	6500	4000	3094	
1980	4000	9529	11504	107703	132192	61586	23412	19111	11993	8000	4000	11563	
1981	6250	10313	5255	19326	20588	22623	15478	10380	6094	5000	4759	4063	
1982	4000	26532	86439	75416	99126	82930	140858	46837	20114	8000	4000	19375	
1983	14105	41506	82357	106640	177997	259268	89201	77072	69941	34845	14630	22659	
1984	10403	79018	156679	63457	36599	34561	18642	14655	7700	10362	4000	19063	
1985	8281	19139	12289	10250	11579	11786	13897	10447	6406	5000	4441	4224	
1986	4000	4500	11314	22226	212779	145844	28127	19009	10045	8000	4000	18438	
1987	8125	12610	4500	9674	16067	23062	9188	9907	6875	5000	4081	3000	
1988	4000	4500	13035	26695	13310	6219	11245	6551	7100	4000	3651	3000	
1989	3855	4150	5516	7798	8636	48618	20573	10814	5938	5565	4875	3588	
1990	4000	4500	4529	14758	11400	11368	9712	5759	4000	4012	4399	3000	
1991	3968	3500	4742	5376	7896	33914	10873	4939	4000	4745	4453	3000	
1992	3557	4209	3500	9312	33327	16664	9501	6144	7100	4000	3382	3000	
1993	4744	3500	8871	63585	55692	35972	41863	29850	22858	8000	4000	12500	
1994	6250	10625	5241	8986	19534	7994	10887	7910	4000	4312	6046	3000	
1995	3583	4418	8442	110780	45418	212814	69103	84076	40227	21659	8500	14375	
1996	11563	12433	20376	47665	123020	68239	47809	48904	10745	8000	4000	21250	
1997	7813	15625	77609	278451	71945	21691	20003	14411	7041	11223	4000	18750	
1998	7813	15313	9674	48520	221019	81271	64785	58923	73037	27910	11552	18972	
1999	8844	20194	30580	40193	92996	60067	31240	22476	10839	8281	4000	19922	
2000	7500	15237	4538	21879	110963	63110	22901	19304	5750	10734	4000	11719	
2001	5781	10469	4500	13231	24433	22773	12508	7941	7100	5000	4457	3000	
2002	4000	5868	27970	49084	14232	16949	16672	12364	4911	5051	5797	3338	
2003	4000	5535	34539	60695	21963	18272	28535	39622	6668	9842	4000	11563	
Avg.	5938	11711	21654	42253	51537	42651	30990	22576	12522	7958	4524	9756	
Max	28077	79018	156679	278451	221019	259268	140858	84076	73037	34845	14630	22659	
Min	3000	3500	3500	5376	7714	6219	7100	4000	4000	4000	3382	3000	

Delta Outflow				Flow in CFS								
Difference (Cumulative minus Cumulative without Project Conditions)												
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1922	0	0	-42	-40	-41	-48	-62	-79	-80	0	0	0
1923	0	0	-56	-40	0	-32	-67	-78	1	5	-1	-24
1924	0	0	0	-41	-39	0	0	-107	0	44	-27	0
1925	0	-29	-10	-41	-35	-49	-62	-77	0	0	8	-54
1926	0	0	0	-42	-33	0	-64	131	0	-21	21	0
1927	0	-65	-47	-34	-274	-92	-64	-80	-80	0	0	0
1928	0	0	-45	-40	-39	-143	-60	-78	15	2	0	0
1929	0	0	-11	-39	-40	0	-63	0	0	0	4	0
1930	0	3	-35	-42	-43	-39	-67	-83	0	0	-4	0
1931	0	0	0	-43	19	-46	0	0	0	0	4	0
1932	0	-4	-42	-38	-7	0	-62	-78	0	0	17	0
1933	-19	0	0	-92	-43	-51	0	-80	0	0	4	0
1934	0	1	-30	-38	-37	0	0	0	0	0	-1	0
1935	-43	176	-21	-48	-29	-50	-60	-80	0	0	0	0
1936	4	0	-39	-84	-794	-47	-63	-80	-81	0	0	-23
1937	0	0	14	-42	-41	-48	-63	-79	36	0	0	0
1938	0	-126	-41	-262	-39	-49	-63	-79	-80	0	0	0
1939	0	0	0	-41	0	-49	-62	32	-7	3	-4	0
1940	0	0	0	-39	-88	-233	-59	-78	0	11	0	0
1941	0	0	-84	-50	-26	-49	-63	-79	-80	0	0	0
1942	0	0	-143	-39	-40	-48	-62	-79	-80	0	0	0
1943	0	0	-61	-276	-38	-49	-63	-80	-80	119	0	0
1944	0	0	-11	-41	-39	-48	-63	-79	0	0	4	0
1945	-9	-58	-44	-44	-39	-46	-62	-78	198	-44	12	-84
1946	0	-22	-44	-40	0	-311	-60	-79	150	-100	0	6
1947	0	0	-40	-41	-41	-39	-65	4	0	0	1	-3
1948	0	0	0	-42	0	-51	-59	-79	-86	0	0	0
1949	0	0	-32	-41	-41	-48	-63	-79	40	0	-2	10
1950	0	0	0	-46	-45	-48	-60	-79	-78	63	0	-19
1951	-3	-195	-387	-170	-37	-49	-63	-79	12	-3	0	0
1952	0	0	-123	-39	-52	-53	-63	-79	-80	-81	-80	156
1953	0	0	-167	-59	-41	-49	-63	-79	-80	0	0	0
1954	0	0	0	-116	-60	-210	-62	-80	7	4	0	0
1955	0	0	-44	-40	0	-32	-63	-79	0	0	-5	0
1956	-6	0	-135	-85	-72	-49	-63	-79	-80	0	0	0
1957	0	0	0	-42	-40	-263	-62	-79	11	1	0	0
1958	0	0	-42	-54	-160	1	-63	-79	-80	0	-80	0
1959	0	0	-13	-112	-152	-49	-63	-79	0	17	0	2
1960	0	0	0	-40	-39	-261	167	-79	0	9	-5	0
1961	9	-50	-241	-41	-49	-49	0	5	0	1	-4	-5
1962	0	0	-32	-39	-256	-44	-63	0	0	2	0	1
1963	-96	-127	-37	-42	-463	-47	-64	-80	-80	85	0	-156
1964	0	0	-15	-40	-26	-31	-22	-79	31	0	-3	0
1965	-2	-54	-273	-39	-41	-49	-63	-79	-80	60	0	-78
1966	0	0	-43	-41	-41	-88	-71	-79	0	20	0	-8
1967	0	-53	-98	-40	-258	-48	-63	-80	-81	-80	-72	156
1968	-156	0	0	-135	-52	-49	-62	-78	25	-5	0	0
1969	0	-32	-42	-216	-31	-49	-63	-80	-80	0	0	0
1970	0	0	-257	-38	-41	-49	-63	-79	19	-4	0	0
1971	0	0	-129	-39	-41	-154	-62	-78	-80	0	0	0
1972	0	0	-42	-40	-40	-194	-62	-79	0	19	0	-7
1973	0	-91	-42	-63	-41	-49	-62	-79	0	7	0	0
1974	0	-41	-191	-40	-41	-49	-63	-79	-80	0	-80	0
1975	0	0	-15	-40	-151	-114	-62	-80	-80	0	0	0
1976	0	0	0	-40	0	-49	-62	0	0	4	-1	0
1977	-10	0	15	-39	0	0	0	0	0	0	-97	0
1978	198	-543	226	-120	-293	-518	-64	-80	-83	0	0	0
1979	0	0	-14	-38	-65	-47	-60	-80	83	0	0	-53
1980	0	-75	-37	-291	77	-44	-63	-79	-52	0	0	0
1981	0	0	0	-38	-43	-180	-62	0	0	0	1	3
1982	0	-123	-151	-47	-41	-55	-63	-79	-80	0	0	0
1983	-245	-57	-49	-41	-41	-48	-135	-79	-80	-80	-80	0
1984	-76	-53	-42	-41	-39	-49	-63	-79	0	7	0	0
1985	0	-53	-42	-41	-41	-47	-62	0	156	0	-32	-24
1986	0	0	-42	-40	-46	-71	-63	-79	-52	0	0	0
1987	0	0	0	-42	-40	-48	-63	22	0	0	31	0
1988	0	0	-41	-39	0	0	-63	-79	0	0	5	0
1989	-5	-21	1	-46	0	-39	-59	0	0	2	-1	-20
1990	0	0	-21	-40	0	-49	0	-79	0	12	18	0
1991	-19	0	8	-51	17	-50	-64	-81	0	20	-11	0
1992	7	-30	0	-18	-41	-50	-26	0	0	0	39	0
1993	-11	0	44	-36	-38	-207	-56	-702	-27	0	0	0
1994	0	0	0	-39	-40	-48	1	-78	0	14	-11	0
1995	-18	209	-346	-352	-111	-51	-66	-81	-82	-83	-83	0
1996	0	0	-43	-43	-26	-50	-64	-81	-80	0	0	0
1997	0	0	-205	-40	-42	-50	-63	-79	20	-5	0	0
1998	0	0	-42	-71	-158	-49	-64	-80	-81	-81	-81	-1
1999	-77	-54	-43	-42	-42	-50	-64	-80	-80	53	0	0
2000	0	0	0	-56	-258	-47	-64	-80	0	6	0	0
2001	0	0	0	-43	-41	-48	-62	19	0	0	-1	0
2002	0	-2	-51	-41	0	-55	-61	-78	-104	51	-19	-77
2003	0	269	-556	-148	-43	-51	-66	-81	66	-9	0	0
Avg.	-7	-16	-57	-65	-67	-71	-54	-69	-19	1	-8	-4
Max	-96	-53	-42	-40	-158	-48	-63	-81	-81	-80	-80	0
Min	0	0	0	-51	0	0	0	0	0	0	39	0



**Sacramento Flow at Freeport**

Water Year	Cumulative Condition without Project Conditions							Flow in CFS					
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
1922	12251	13078	17246	14676	30097	27700	22287	49387	34672	18583	15537	23885	
1923	11991	17383	26738	25567	17621	11204	20785	14962	11909	20355	15855	11539	
1924	9366	10006	9234	12485	15133	8936	7217	5818	8757	15149	7827	7804	
1925	7464	7841	12955	12236	58910	17172	23820	13209	11535	16904	16314	11146	
1926	9030	9335	9570	17756	36998	12569	21321	9706	13609	19336	14907	11963	
1927	8982	21920	18641	31520	74791	41553	42957	24103	18041	22229	16802	30132	
1928	11633	18835	15446	24013	21409	73807	24467	10070	15640	24408	17083	21523	
1929	11083	13644	11909	12779	16249	12120	7978	7613	10856	12415	7636	7866	
1930	7660	7303	17534	20616	18252	29617	11937	9897	12356	16660	13460	10877	
1931	9019	8625	7980	13646	11558	8692	9696	7095	8438	15047	8106	7380	
1932	7381	7213	19547	20511	13795	12248	9098	12316	14288	13459	9757	12191	
1933	9300	8469	10893	14775	12402	14073	9079	8138	11108	9861	7636	7643	
1934	7303	7255	14562	18067	15489	11887	11157	9182	11606	9238	7720	7424	
1935	7546	11369	10287	26828	13450	25173	42734	17721	14698	18847	12921	11962	
1936	9192	9503	11951	38175	57709	33171	20915	13510	14419	20649	14457	12471	
1937	10276	9715	11704	13794	34798	36168	20934	13331	15300	18830	13135	11636	
1938	10783	25776	62440	30067	74371	74739	57654	52784	33795	14633	14119	27289	
1939	13204	14552	13261	10864	11804	9728	8102	9257	9965	20287	17861	9070	
1940	9080	8702	9363	26747	55248	74086	56278	14546	12177	23451	16595	21335	
1941	10955	13268	33669	70751	73798	68977	56005	38517	15534	17661	15365	30495	
1942	12379	17440	45052	66362	74474	22265	41982	31834	24176	16702	15489	30258	
1943	12588	19150	19244	62620	49028	66695	25276	15207	11915	23619	15941	29523	
1944	11909	15223	13637	15270	24561	19241	9347	8797	11713	18796	14921	10382	
1945	9149	14743	16867	13217	43773	21276	11216	11858	11239	19926	16153	12560	
1946	10769	14682	62580	45244	16846	19124	13772	13375	10665	21546	17057	13759	
1947	10601	10572	15085	11629	17781	19661	11924	9687	12943	20184	18071	14468	
1948	9062	11199	9497	15012	10336	15619	24097	27886	19885	21296	17718	14208	
1949	11384	10171	14272	11258	13029	41094	12368	12153	12291	20086	18213	16047	
1950	11178	9410	11775	19536	34318	20227	18661	14347	13586	20536	15619	13346	
1951	12067	46843	74688	56925	63182	27957	14069	15975	12345	23964	17003	22188	
1952	12096	17244	36876	65757	69233	53073	60711	58903	35626	17992	15911	28868	
1953	13596	16638	32089	71972	23495	20986	15337	23760	24610	22601	16992	30435	
1954	11722	19359	12066	24345	53010	46100	38918	12166	14299	24454	17147	22799	
1955	11222	16240	22581	18673	12669	10543	10067	10756	10527	19955	17765	9626	
1956	9229	11954	73958	75137	67919	34128	18214	39081	20154	17505	15558	30458	
1957	13061	18702	13992	13610	16853	41372	11112	19181	11265	24763	17445	21466	
1958	14941	15868	23533	36902	74521	73978	73712	41801	29603	17243	16679	28238	
1959	14234	16914	14141	22394	47425	15663	9372	9800	12696	23889	17461	10918	
1960	8973	8783	8886	13339	27085	20787	10908	10572	12224	21148	18279	11263	
1961	9825	13177	18996	13105	33774	18150	10228	10539	12278	20925	19281	14801	
1962	10912	10746	16915	10400	46009	21990	12607	13243	11481	23216	17609	12224	
1963	33445	15959	27999	16289	64769	25420	72946	26124	13672	24487	16784	29919	
1964	11776	21492	13364	22717	13117	10851	9661	10710	10728	20164	15524	9963	
1965	9122	16195	73702	74322	32713	19912	40473	17116	14833	21653	14866	29421	
1966	12676	21129	13938	24860	22868	20433	13910	10222	12324	23104	17256	13552	
1967	9224	15561	34698	40615	50481	52468	34729	42832	37897	14232	14997	29110	
1968	13552	15542	15322	24569	56414	32326	9883	10798	11541	24195	16438	12710	
1969	9281	12503	21929	74415	74082	43606	39823	44669	21880	14871	13975	29686	
1970	12292	15109	48565	76611	69557	33588	10315	12164	12258	24926	16771	28648	
1971	13084	19372	47943	46455	22334	41205	22054	27987	20793	22445	17257	27074	
1972	13518	17208	16194	15895	16615	29256	10920	10609	11842	24082	17237	12927	
1973	9827	20526	25710	72363	71833	49519	14982	16339	15504	22501	15627	20209	
1974	11043	56468	63901	74768	39367	73893	60848	20498	18978	19988	16733	29449	
1975	14164	18618	14791	13557	50627	70199	20191	28385	23460	19637	15219	29881	
1976	14531	18947	12925	11548	12469	14421	9716	6163	8855	16864	12491	11627	
1977	8656	8097	8483	9621	8192	8136	8930	5586	9264	8675	7659	7202	
1978	6551	7132	15625	56608	44228	61024	34181	17893	15339	19983	16260	21467	
1979	12281	14313	13732	21694	29347	24959	13886	13879	14291	20925	16101	12071	
1980	10593	14535	20171	74312	74299	43346	16858	13764	12389	16005	15200	17480	
1981	10964	13701	15406	20928	24531	22991	12822	9379	12267	20055	18036	14391	
1982	11188	34315	73785	65298	74047	66132	74613	30941	20505	14637	13310	23644	
1983	18930	36263	64093	70738	75067	77252	58500	54117	51144	24537	18453	26210	
1984	17972	64618	75315	47542	33724	33974	12752	11816	13560	23650	15962	26023	
1985	11530	25241	21442	13936	15092	13302	11979	10179	12321	19830	17288	14194	
1986	11170	11329	17136	22160	78629	74426	18235	11997	12251	21046	15429	20861	
1987	10995	12333	13394	13818	19624	22908	8080	9959	13023	19181	9286	8764	
1988	7934	8511	18096	25454	13068	7769	11106	7486	11711	16125	8477	7550	
1989	7421	9770	10253	12410	8965	46094	21564	13339	13553	20870	18560	11151	
1990	10081	9097	11148	18942	13750	12203	11230	6960	9129	17094	9886	7916	
1991	7377	6957	7321	7561	9274	29034	11617	6953	9384	18132	8501	7474	
1992	7631	7158	7017	10659	28403	18492	11151	8946	13363	13206	10706	8131	
1993	8300	6986	13352	50577	49244	35735	37647	27350	25730	19720	16527	23047	
1994	12288	13106	15731	13107	21935	11470	12016	9356	9180	19775	20064	12079	
1995	8831	8046	15207	73785	47305	76791	50507	66349	37658	16792	17516	23825	
1996	14984	12359	24276	44135	74611	61158	33155	42136	14726	21456	15661	31405	
1997	11606	17504	62320	78778	54301	22223	16041	11976	12620	24574	16163	29174	
1998	11917	16969	18952	42426	74753	67963	45577	43128	64098	22803	19791	26182	
1999	16218	26946	35014	40478	70425	59306	23036	18367	16418	21850	16015	25650	
2000	11639	18249	14098	21661	71244	59666	18136	15829	11606	22418	16952	22305	
2001	9394	13571	13456	16590	24003	22255	11250	9044	13206	19535	9342	9078	
2002	8068	10024	28803	45711	18226	19049	15599	10907	10514	20396	19169	13769	
2003	10528	9380	35231	59359	25125	22383	24601	36772	13383	24724	17286	20977	
Avg.	11183	15853	24409	32998	38559	33789	23583	19038	16359	19628	15173	18045	
Max	33445	64618	75315	78778	78629	77252	74613	66349	64098	24926	20064	31405	
Min	6551	6957	7017	7561	8192	7769	7217	5586	8438	8675	7636	7202	

**Sacramento Flow at Freepport**

Water Year	Cumulative Condition				Flow in CFS							
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1922	12176	13025	17205	14635	30056	27652	22225	49308	34592	18583	15537	23885
1923	11971	17352	26682	25527	17621	11155	20718	14883	11910	20361	15855	11470
1924	9237	9970	9193	12444	15093	8936	7216	5817	8757	15226	7892	7796
1925	7417	7785	12913	12195	58875	17123	23758	13131	11535	16852	16327	10969
1926	9030	9244	9527	17714	36965	12544	21257	9837	13602	19312	14928	11963
1927	8982	21855	18593	31486	74780	41462	42893	24023	17961	22230	16803	30133
1928	11616	18810	15401	23973	21370	73797	24406	9991	15655	24410	17083	21524
1929	10986	13677	11862	12740	16209	12120	7915	7578	10856	12491	7641	7866
1930	7660	7303	17488	20575	18209	29577	11870	9814	12301	16561	13456	10788
1931	9019	8625	7980	13603	11577	8646	9696	7096	8438	15047	8106	7380
1932	7369	7213	19506	20473	13694	12261	9036	12238	14246	13451	9758	12191
1933	9300	8469	10815	14682	12359	14022	9079	8059	11108	9859	7640	7643
1934	7303	7251	14517	18028	15452	11840	11157	9182	11606	9221	7720	7424
1935	7209	11355	10228	26781	13404	25122	42674	17641	14698	18847	12923	11962
1936	9192	9449	11893	38091	57000	33124	20852	13430	14339	20649	14456	12405
1937	10239	9661	11766	13752	34757	36119	20871	13252	15344	18830	13135	11636
1938	10720	25650	62399	29805	74366	74733	57591	52704	33714	14633	14119	27289
1939	13127	14498	13261	10823	11802	9678	8040	9289	9958	20290	17857	8888
1940	9080	8702	9319	26708	55159	74075	56217	14467	12177	23456	16596	21315
1941	10879	13287	33584	70699	73793	68928	55942	38438	15454	17661	15365	30495
1942	12345	17445	44909	66323	74469	22217	41919	31754	24096	16702	15489	30258
1943	12553	19149	19182	62344	48990	66646	25213	15127	11835	23766	15941	29523
1944	11888	15126	13606	15229	24522	19193	9284	8718	11712	18789	14920	10371
1945	9149	14685	16823	13174	43734	21228	11155	11780	11437	19873	16162	12321
1946	10767	14660	62536	45204	16703	18812	13710	13296	10815	21447	17057	13777
1947	10601	10479	15044	11588	17740	19617	11861	9693	12943	20184	18072	14459
1948	9062	11107	9459	14969	10318	15568	24037	27807	19798	21297	17675	14208
1949	11384	10117	14230	11217	12988	41045	12305	12073	12331	20086	18212	16076
1950	11054	9350	11683	19490	34272	20179	18601	14268	13505	20587	15607	13291
1951	12032	46648	74674	56884	63140	27908	14006	15896	12357	23965	17003	22188
1952	12062	17216	36753	65718	69181	53020	60648	58824	35545	17912	15830	29024
1953	13560	16521	31938	71912	23453	20937	15274	23681	24530	22601	16991	30435
1954	11687	19359	12104	24229	52951	45890	38856	12086	14305	24453	17147	22805
1955	11201	16236	22537	18633	12669	10493	10004	10676	10551	19955	17721	9547
1956	9229	11850	73941	75131	67879	34079	18151	39001	20074	17505	15558	30458
1957	13027	18675	13992	13568	16810	41110	11050	19102	11276	24764	17446	21465
1958	14816	15818	23491	36847	74513	73978	73704	41722	29523	17243	16599	28238
1959	14157	16953	14105	22282	42723	15615	9309	9721	12696	23893	17461	10923
1960	8973	8760	8860	13299	27046	20526	11074	10493	12224	21157	18274	11312
1961	9808	13116	18756	13065	33725	18101	10228	10544	12278	20924	19277	14787
1962	10919	10737	16872	10361	45753	21945	12545	13243	11480	23218	17609	12228
1963	33348	15832	27962	16246	64306	25373	72883	26044	13592	24572	16725	29762
1964	11760	21482	13322	22676	13077	10803	9639	10631	10759	20164	15502	9952
1965	9122	16141	73667	74317	32671	19864	40410	17036	14753	21714	14866	29362
1966	12643	21103	13895	24819	22827	20345	13840	10143	12324	23124	17256	13528
1967	9224	15508	34600	40574	50223	52420	34666	42752	37817	14152	14916	29269
1968	13381	15471	15322	24457	56362	32278	9821	10720	11566	24196	16438	12710
1969	9203	12450	21887	74405	74077	43556	39760	44590	21800	14871	13975	29686
1970	12215	15109	48308	76606	69516	33540	10253	12085	12277	24929	16771	28692
1971	13030	19342	47814	46416	22293	41051	21991	27909	20713	22445	17257	27071
1972	13511	17207	16152	15855	16576	29062	10858	10530	11842	24100	17237	12907
1973	9749	20436	25668	72299	71792	49471	14920	16259	15504	22508	15627	20253
1974	10981	56427	63710	74763	39326	73887	60785	20419	18898	19988	16653	29449
1975	14087	18649	14749	13517	50477	70137	20129	28305	23379	19637	15219	29881
1976	14454	18949	12945	11507	12466	14373	9654	6164	8855	16858	12490	11619
1977	8685	8105	8493	9580	8174	8199	8930	5586	9001	8665	7822	7202
1978	6993	7132	15587	56488	43932	60550	34119	17813	15256	19985	16262	21470
1979	12191	14352	13695	21655	29281	24912	13826	13800	14373	20924	16101	11921
1980	10593	14460	20133	74300	74294	43298	16795	13684	12309	16005	15200	17494
1981	10884	13674	15406	20888	24489	22811	12760	9380	12267	20055	18037	14398
1982	11188	34192	73777	65250	74041	66083	74605	30862	20425	14637	13310	23644
1983	18678	36206	64052	70698	75061	77246	58392	54038	51064	24457	18373	26210
1984	17896	64565	75310	47501	33685	33925	12689	11737	13560	23649	15962	25945
1985	11395	25188	21400	13895	15051	13255	11916	10177	12477	19830	17256	14126
1986	11037	11283	17093	22120	78624	74420	18172	11918	12171	21046	15429	20861
1987	10915	12333	13394	13775	19584	22859	8017	9981	13023	19183	9192	8725
1988	7934	8511	18055	25414	13050	7747	11043	7407	11711	16122	8473	7550
1989	7421	9706	10208	12364	8925	46055	21505	13339	13553	20873	18558	11094
1990	10020	9083	11101	18902	13709	12154	11230	6881	9129	17132	9842	7927
1991	7377	6957	7278	7519	9292	28984	11552	6871	9384	18143	8505	7474
1992	7627	7054	6978	10616	28362	18442	11125	8946	13363	13079	10663	8131
1993	8286	6986	13479	50540	49206	35528	37591	26648	25703	19720	16527	23047
1994	12207	13178	15731	13068	21895	11422	12017	9278	9180	19790	20053	12038
1995	8789	7986	15156	73772	47195	76785	50442	66268	37575	16709	17435	23826
1996	14982	12341	24233	44091	74607	61108	33091	42056	14646	21456	15661	31405
1997	11576	17478	62114	78773	54259	22173	15978	11896	12641	24574	16163	29174
1998	11882	16929	18910	42356	74745	67915	45514	43047	64016	22722	19710	26181
1999	16142	26891	34972	40437	70384	59256	22973	18286	16338	21902	16015	25646
2000	11604	18249	14098	21604	71160	59618	18073	15748	11606	22418	16952	22305
2001	9344	13589	13456	16547	23962	22207	11188	9062	13206	19517	9330	9022
2002	8068	9970	28752	45669	18226	18994	15538	10829	10409	20447	19151	13549
2003	10653	9430	34675	59211	25082	22333	24536	36692	13448	24803	17172	20963
Avg.	11145	15819	24356	32947	38499	33725	23531	18970	16335	19627	15163	18027
Max	33348	64565	75310	78773	78624	77246	74605	66268	64016	24929	20053	31405
Min	6993	6957	6978	7519	8174	7747	7216	5586	8438	8665	7640	7202

**Sacramento Flow at Freeport**

**Flow in CFS**

Difference (Cumulative minus Cumulative without Project Conditions)												
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1922	-76	-53	-42	-41	-41	-48	-63	-79	-80	0	0	0
1923	-20	-31	-56	-40	0	-49	-67	-79	1	5	-1	-69
1924	-129	-37	-42	-41	-39	0	-1	-1	0	77	65	-8
1925	-48	-56	-42	-41	-35	-49	-62	-77	0	-52	13	-178
1926	0	-91	-42	-42	-33	-25	-64	131	-6	-24	21	0
1927	0	-65	-47	-34	-11	-92	-64	-80	-80	1	1	1
1928	-17	-24	-45	-40	-39	-10	-61	-79	15	2	0	1
1929	-97	34	-47	-39	-40	0	-63	-35	0	77	4	0
1930	0	0	-46	-42	-43	-39	-67	-83	-56	-99	-4	-89
1931	0	0	0	-43	19	-46	0	1	0	0	1	0
1932	-12	0	-41	-38	-101	13	-62	-78	-42	-8	1	0
1933	0	0	-79	-92	-43	-51	0	-80	0	-2	4	0
1934	0	-4	-45	-38	-37	-47	0	0	0	-17	-1	0
1935	-337	-14	-59	-48	-46	-51	-60	-80	0	0	2	0
1936	0	-54	-59	-84	-709	-47	-63	-80	-81	0	0	-65
1937	-37	-54	61	-42	-41	-49	-63	-79	44	0	0	0
1938	-62	-126	-41	-262	-5	-6	-63	-79	-80	0	0	0
1939	-76	-54	0	-42	-1	-49	-62	32	-7	3	-4	-183
1940	0	0	-45	-39	-89	-11	-61	-79	0	5	1	-20
1941	-76	19	-85	-53	-5	-49	-63	-79	-80	0	0	0
1942	-34	5	-143	-39	-5	-48	-63	-79	-80	0	0	0
1943	-34	-1	-61	-276	-38	-49	-63	-80	-80	147	0	0
1944	-21	-96	-31	-41	-39	-48	-63	-79	-1	-7	0	-12
1945	0	-58	-44	-44	-39	-48	-62	-78	198	-53	10	-239
1946	-2	-22	-44	-40	-143	-312	-61	-79	150	-99	0	18
1947	0	-93	-41	-41	-41	-44	-63	6	0	0	1	-9
1948	0	-92	-38	-42	-18	-51	-60	-79	-86	0	-42	0
1949	0	-54	-42	-41	-41	-49	-63	-79	40	0	-2	28
1950	-124	-60	-92	-46	-46	-49	-60	-80	-81	51	-11	-54
1951	-34	-195	-14	-41	-42	-49	-63	-79	12	1	0	0
1952	-34	-28	-123	-39	-52	-53	-63	-79	-80	-81	-80	156
1953	-36	-118	-151	-60	-42	-49	-63	-79	-80	0	0	0
1954	-35	0	39	-116	-60	-210	-62	-80	7	0	0	6
1955	-22	-4	-44	-41	0	-50	-63	-80	25	0	-44	-79
1956	0	-103	-17	-6	-40	-49	-63	-79	-80	0	0	0
1957	-34	-26	0	-42	-44	-262	-62	-79	11	1	1	-1
1958	-125	-50	-42	-54	-8	0	-8	-79	-80	0	-80	0
1959	-77	39	-37	-112	-152	-49	-63	-79	0	4	0	5
1960	0	-22	-26	-40	-39	-261	167	-79	0	9	-5	48
1961	-17	-61	-241	-41	-49	-49	0	5	0	-1	-4	-14
1962	7	-9	-44	-39	-256	-45	-63	0	0	2	0	4
1963	-96	-127	-37	-42	-463	-47	-63	-80	-80	85	-60	-157
1964	-16	-10	-42	-41	-40	-48	-22	-79	31	0	-22	-11
1965	0	-54	-34	-5	-41	-49	-63	-79	-80	60	0	-58
1966	-33	-27	-43	-41	-41	-88	-71	-79	0	20	0	-24
1967	0	-53	-98	-40	-258	-48	-63	-80	-81	-80	-81	159
1968	-171	-70	-1	-112	-52	-48	-62	-78	25	1	0	0
1969	-78	-53	-42	-9	-5	-49	-63	-80	-80	0	0	0
1970	-77	0	-257	-5	-41	-49	-63	-79	19	3	0	44
1971	-54	-29	-129	-39	-41	-154	-62	-78	-80	0	0	-3
1972	-7	-1	-42	-40	-40	-194	-62	-79	0	19	0	-19
1973	-78	-91	-42	-64	-41	-49	-62	-79	0	8	0	44
1974	-62	-41	-191	-5	-41	-6	-63	-79	-80	0	-80	0
1975	-76	31	-42	-40	-150	-62	-62	-80	-80	0	0	0
1976	-76	2	21	-41	-3	-48	-62	1	0	-6	-1	-8
1977	29	8	9	-41	-18	62	0	0	-262	-10	164	0
1978	442	0	-39	-120	-296	-474	-62	-80	-83	3	3	3
1979	-90	39	-36	-39	-66	-48	-60	-80	82	0	0	-150
1980	0	-75	-38	-12	-5	-49	-62	-79	-80	0	0	14
1981	-80	-27	0	-40	-42	-180	-62	0	0	0	1	7
1982	0	-123	-8	-47	-5	-49	-8	-79	-80	0	0	0
1983	-252	-57	-41	-41	-5	-6	-108	-79	-80	-80	-80	0
1984	-76	-53	-5	-41	-39	-49	-63	-79	0	0	0	-78
1985	-134	-53	-42	-41	-41	-47	-64	-2	156	0	-31	-67
1986	-133	-46	-42	-40	-5	-6	-63	-79	-80	0	0	0
1987	-80	0	0	-42	-40	-48	-63	22	0	2	-94	-39
1988	0	0	-42	-39	-17	-22	-63	-79	-1	-3	-4	0
1989	0	-63	-45	-46	-40	-39	-59	0	0	2	-1	-57
1990	-60	-14	-47	-40	-41	-49	0	-79	0	38	-44	12
1991	0	0	-43	-42	17	-50	-64	-81	0	11	4	0
1992	-4	-104	-39	-43	-41	-50	-26	0	0	-127	-42	0
1993	-14	0	126	-36	-38	-207	-56	-702	-27	0	0	0
1994	-81	72	0	-39	-41	-48	1	-78	0	14	-11	-41
1995	-42	-59	-51	-13	-110	-6	-65	-81	-83	-83	-82	1
1996	-1	-18	-43	-43	-5	-50	-64	-81	-80	0	0	0
1997	-30	-26	-206	-5	-42	-50	-63	-79	20	0	0	0
1998	-36	-40	-42	-71	-8	-49	-64	-80	-81	-81	-81	-1
1999	-77	-54	-43	-42	-41	-50	-64	-80	-80	53	0	-3
2000	-35	0	0	-57	-83	-48	-64	-80	0	0	0	0
2001	-51	18	0	-43	-41	-48	-62	19	0	-19	-12	-56
2002	0	-54	-51	-41	0	-55	-61	-78	-104	51	-19	-220
2003	125	49	-556	-148	-43	-51	-66	-81	66	79	-114	-15
Avg.	-38	-35	-53	-51	-60	-64	-52	-68	-24	-1	-10	-18
Max	442	72	126	-5	19	62	167	131	198	147	164	159
Min	-337	-195	-556	-276	-709	-474	-108	-702	-262	-127	-114	-239