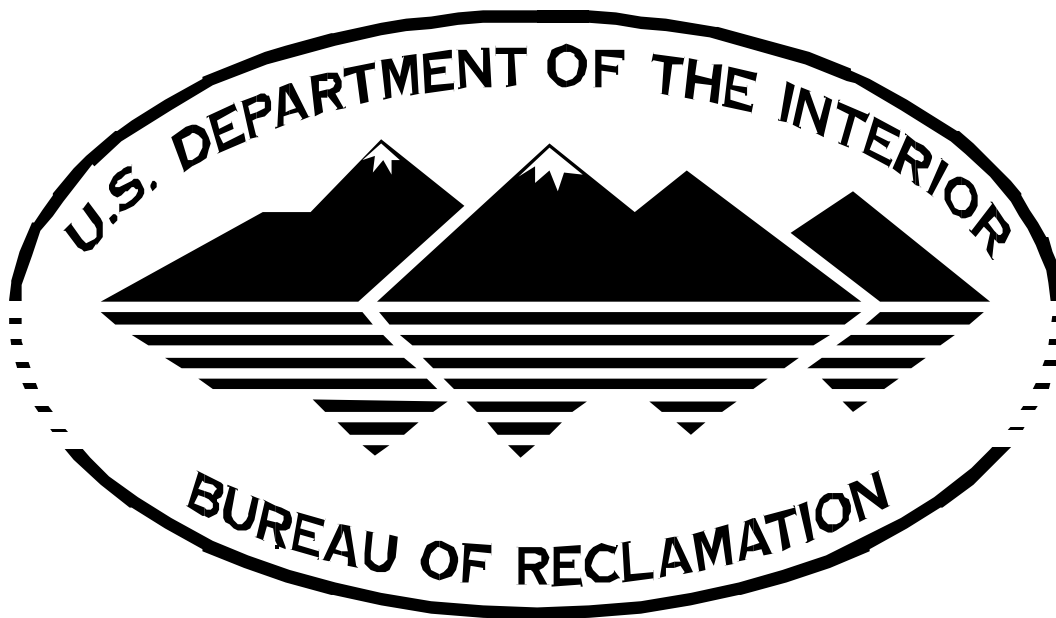


**UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION**

CENTRAL VALLEY OPERATIONS OFFICE

REPORT OF OPERATIONS



March 2003

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SUMMARY OF MARCH 2003 OPERATIONS

Sacramento had an average monthly temperature of 58.2 °F which was 1.1 °F above normal. The average temperature at Shasta Dam was 53.7 °F which was 1.3 °F above normal and Huntington Lake was 8.7 °F below normal with an average temperature of 28.0 °F.

Trinity System: Storage in Trinity Lake increased 97,000 acre-feet this month to 2,036,200 acre-feet, which is 83 percent of capacity and 114 percent of the 15 year average for this date. The total inflow for the month was 181,641 acre-feet. The Trinity River release were 300 ft³/s. Whiskeytown Lake was operated between elevations 1197.22 feet and 1200.09 feet with an end-of-month storage of 206,900 acre-feet. The releases to Clear Creek from Whiskeytown Dam were 200 ft³/s. Total diversion from the Trinity River to the Sacramento River watershed for the month was 66,818 acre-feet.

Shasta-Keswick: Storage in Shasta Lake increased 519,400 acre-feet for an end-of-month storage of 4,103,700 acre-feet, which is 90 percent of capacity and 117 percent of the 15 year average. The total inflow for the month was 681,320 acre-feet. The release to the Sacramento River at Keswick ranged between 3,500 and 5,900 ft³/s for the month.

Folsom-Nimbus: Storage in Folsom Lake increased 88,400 acre-feet and had an end-of-month storage of 619,700 acre-feet, which is 63 percent of capacity and 104 percent of the 15 year average for this date. The total inflow for the month was 226,456 acre-feet. The release to the American River at Nimbus ranged between 1,800 and 2,500 ft³/s during the month.

New Melones: Storage in New Melones decreased 1,700 acre-feet for an end-of-month storage of 1,425,200 acre-feet or 59 percent of capacity and 107 percent of the 15 year average. The release to the Stanislaus River at Goodwin Dam ranged between 450 to 600 ft³/s for the month. The total inflow for the month was 70,252 acre-feet.

Delta-San Luis: Federal storage in San Luis Reservoir on March 31, 2003, was 969,000 acre-feet compared to the storage a year ago of 954,000 acre-feet.

Friant: Storage in Millerton Lake increased 54,240 acre-feet to 464,700 acre-feet. The total monthly inflow was 84,531 acre-feet. The release to the San Joaquin River at Friant varied between 101 and 147 ft³/s.

CVP Totals: The total diversions to CVP canals were 310,543 acre-feet. The March 31, 2003, storage in the 18 CVP reservoirs was 9,154,000 acre-feet compared to storage 1 year ago of 9,289,000 acre-feet.

Power: Gross power production for the CVP totaled 260,263,000 kilowatt-hours.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
MID-PACIFIC REGION
MONTHLY RESERVOIR STORAGE SUMMARY IN ACRE-FEET
(PRELIMINARY DATA SUBJECT TO REVISION)

Table 1

WATERSHED	RESERVOIR	TOTAL CAPACITY	03/31/03	03/31/02	WATERSHED	RESERVOIR	TOTAL CAPACITY	03/31/03	03/31/02
KLAMATH	CLEAR LAKE *	526,800	126,900	161,800	AMERICAN	FOLSOM LAKE *CVP	1,010,300	619,750	720,550
	GERBER *	94,300	33,080	46,830		LAKE NATOMA *CVP	9,030	7,900	7,900
	UPR KLAMATH LK *	873,300	476,740	444,200	COSUMNES	JENKINSON LK *CVP	41,000	34,730	39,540
TRINITY	CLAIR ENGLE LK*CVP	2,447,700	2,036,180	1,857,120	MOKELUMNE	CAMANCHE	431,500	303,830	271,730
	LEWISTON LAKE*CVP	14,660	14,070	14,160		PARDEE	210,000	178,550	181,480
	WHISKEYTOWN *CVP	241,100	206,890	203,950	SALT SPRINGS	140,000	21,320	7,110	
MCCLOUD	MCCLOUD DIV. RES	35,230	27,890	20,630	CALAVERAS	NEW HOGAN	317,100	144,960	181,680
PIT	IRON CANYON	24,240	5,380	6,590		NEW MELONES*CVP	2,420,000	1,425,150	1,621,470
	LAKE BRITTON	40,620	38,930	31,620		BEARDSLEY	97,800	27,910	22,490
	PIT NO. 6	15,890	12,800	8,130	STANISLAUS	DONNELLS	64,320	9,140	6,820
	PIT NO. 7	34,610	33,260	32,080		TULLOCH	67,000	57,070	56,250
SACRAMENTO	SHASTA LAKE *CVP	4,552,000	4,103,710	4,136,150	TUOLUMNE	LAKE ELEANOR	26,100	7,740	7,060
	SPRING CREEK *CVP	5,900	1,860	2,940		LAKE LLOYD	268,000	187,740	192,030
	KESWICK *CVP	23,800	22,250	21,700		HETCH-HETCHY	360,400	240,600	113,930
	RED BLUFF DIV *CVP	3,920	240	210	NEW DON PEDRO	2,030,000	1,432,120	1,527,720	
FEATHER	OROVILLE	3,538,000	2,634,630	2,414,820	TURLOCK LAKE	49,000	28,560	31,110	
	THERMALITO DIV RES	13,500	12,930	12,920	MERCED	EXCHEQUER	1,024,600	386,810	458,730
	THERMALITO FORE.	14,400	0	10,980		BUCHANAN	150,000	24,380	32,580
	THERMALITO AFTER.	57,000	36,360	31,060	CRANE VALLEY	45,400	32,360	32,090	
STONY CREEK	LAKE ALMANOR	1,143,000	842,000	773,660	LAKE T.A. EDISON	125,000	48,310	42,230	
	EAST PARK *	50,900	48,460	48,430	FLORENCE LAKE	64,600	1,390	1,160	
	STONY GORGE *	50,000	48,400	47,670	SAN JOAQUIN	MAMMOTH POOL	122,700	37,230	14,070
BLACK BUTTE *CVP	143,700	116,670	90,510	HUNTINGTON LAKE		89,800	40,310	42,190	
LAKE BERRYESSA *	1,602,300	1,604,400	1,506,830	REDINGER LAKE		35,000	23,910	24,060	
PUTAH CREEK	LAKE SOLANO *	720	650	600	SHAVER LAKE	135,400	87,640	85,070	
	BULLARDS BAR	930,000	780,740	756,700	MILLERTON LK *CVP	520,500	464,710	388,820	
YUBA	SO. YUBA SYSTEM	146,000	62,730	43,580	FRESNO	HIDDEN	90,000	24,930	31,040
	NARROWS	70,000	64,110	64,040		SAN LUIS **CVP	2,040,600	1,953,850	2,027,960
BEAR	ROLLINS	65,990	66,000	65,990		O'NEILL FORE.**CVP	56,400	38,870	47,130
LITTLE TRUCKEE	STAMPEDE *	226,620	125,200	151,900	SAN LUIS	L BANOS RES**CVP	34,560	20,520	20,650
	BOCA *	41,140	19,300	16,900		LT PANOCHE **CVP	5,580	NR	830
PROSSER	PROSSER CREEK *	29,840	11,500	10,000	OIL CANYON	CONTRA LOMA *CVP	2,100	2,130	2,030
TRUCKEE	LAKE TAHOE *	732,000	97,100	165,200	KINGS	WISHON	128,300	37,680	36,900
	RYE PATCH *	190,000	25,100	27,900		PINE FLAT	1,001,500	441,280	459,190
HUMBOLDT					KAWEAH	TERMINUS	143,000	51,720	44,460
CARSON	LAHONTAN *	317,280	199,800	164,600	TULE	SUCCESS	82,300	36,970	31,550
	TWIN LAKES	21,600	14,030	16,000	KERN	ISABELLA	588,100	173,980	111,280
	FRENCH MEADOWS	136,400	83,500	54,790	CUYAMA	TWITCHHELL *	240,100	NR	NR
AMERICAN	HELL HOLE	207,590	147,860	75,360	SANTA YNEZ	LAKE CACHUMA *	190,500	125,170	164,000
	LOON LAKE	76,500	27,890	25,280	COYOTE	LAKE CASITAS *	254,000	196,920	218,630
	ICE HOUSE	46,000	24,040	22,090	TOTAL - 85 RESERVOIRS		33,790,040	23,414,670	22,923,390
	UNION VALLEY	277,300	188,260	17,510	TOTAL - 36 RESERVOIRS		18,992,650	14,208,200	14,379,110
	SLAB CREEK	16,600	14,690	14,440	TOTAL - 18 RESERVOIRS		13,572,850	11,069,480	11,203,620

** - Joint State-Federal Reservoir

* - USBR Reservoir

CVP - Central Valley Project

NR - Not Reported

UNITED STATES DEPARTMENT OF THE INTERIOR
U.S. BUREAU OF RECLAMATION-CENTRAL VALLEY PROJECT-CALIFORNIA

MARCH 2003

SHASTA LAKE DAILY OPERATIONS

RUN DATE: March 12, 2004

DAY	ELEV	STORAGE		COMPUTED* INFLOW C.F.S.	RELEASE - C.F.S.			EVAPORATION C.F.S.	PRECIP INCHES	
		1000 ACRE-FEET IN LAKE	CHANGE		POWER	RIVER SPILL	OUTLET			
		3,584.3								
1	1,032.11	3,587.1	+2.8	6,475	4,981	0	0	75	.10	.00
2	1,032.26	3,590.9	+3.8	6,484	4,481	0	0	68	.09	.00
3	1,032.35	3,593.2	+2.3	5,953	4,679	0	0	113	.15	.00
4	1,032.49	3,596.8	+3.6	5,986	4,172	0	0	8	.01	.02
5	1,032.64	3,600.7	+3.8	5,932	3,929	0	0	68	.09	.00
6	1,032.80	3,604.8	+4.1	6,025	3,847	0	0	113	.15	.00
7	1,032.95	3,608.6	+3.8	5,886	3,868	0	0	83	.11	.00
8	1,033.05	3,611.2	+2.6	5,749	4,364	0	0	91	.12	.00
9	1,033.19	3,614.8	+3.6	6,062	4,164	0	0	83	.11	.02
10	1,033.45	3,621.4	+6.7	5,797	2,426	0	0	0	.00	.25
11	1,033.69	3,627.6	+6.2	5,884	2,704	0	0	68	.09	.01
12	1,034.02	3,636.1	+8.5	7,115	2,834	0	0	0	.00	.00
13	1,034.55	3,649.8	+13.7	9,796	2,844	0	0	46	.06	.00
14	1,035.44	3,672.9	+23.1	15,084	3,459	0	0	0	.00	2.74
15	1,038.24	3,746.1	+73.2	38,496	1,522	0	0	70	.09	3.08
16	1,039.93	3,790.7	+44.7	23,843	1,246	0	0	78	.10	.25
17	1,041.21	3,824.6	+33.9	18,323	1,226	0	0	0	.00	.23
18	1,042.21	3,851.3	+26.6	15,110	1,559	0	0	126	.16	.00
19	1,043.15	3,876.4	+25.1	14,394	1,623	0	0	95	.12	.00
20	1,044.00	3,899.2	+22.8	13,216	1,651	0	0	56	.07	.17
21	1,044.73	3,918.9	+19.7	11,750	1,755	0	0	64	.08	.00
22	1,045.48	3,939.2	+20.3	12,122	1,831	0	0	56	.07	.00
23	1,046.28	3,961.0	+21.7	12,695	1,716	0	0	24	.03	.26
24	1,046.93	3,978.7	+17.7	10,577	1,552	0	0	96	.12	.00
25	1,047.60	3,997.0	+18.3	10,907	1,544	0	0	121	.15	.00
26	1,048.40	4,019.0	+22.0	12,462	1,355	0	0	40	.05	.34
27	1,049.14	4,039.3	+20.4	11,702	1,310	0	0	122	.15	.00
28	1,049.70	4,054.8	+15.5	9,379	1,390	0	0	187	.23	.00
29	1,050.31	4,071.7	+16.9	10,054	1,413	0	0	122	.15	.00
30	1,050.91	4,088.4	+16.7	10,123	1,560	0	0	164	.20	.00
31	1,051.46	4,103.7	+15.3	10,113	2,260	0	0	123	.15	.00
TOTALS			+519.4	343,494	79,265	0	0	2,360	3.00	7.37
ACRE-FEET			+519,400	681,320	157,222	0	0	4,681		

COMMENTS:

* COMPUTED INFLOW IS THE SUM OF CHANGE IN STORAGE, RELEASES AND EVAPORATION.

SUMMARY

	RELEASE (ACRE-FEET)			PRECIPITATION	
POWER	157,222	OUTLET	0	THIS MONTH =	7.37
SPILL	0	TOTAL	157,222	JULY 1, 2002 TO DATE =	60.20

UNITED STATES DEPARTMENT OF THE INTERIOR
U.S. BUREAU OF RECLAMATION-CENTRAL VALLEY PROJECT-CALIFORNIA

MARCH 2003

TRINITY LAKE DAILY OPERATIONS

RUN DATE: March 12, 2004

DAY	ELEV	STORAGE		COMPUTED* INFLOW C.F.S.	POWER	RELEASE - C.F.S.		EVAPORATION		PRECIP INCHES (1)
		1000 ACRE-FEET IN LAKE	CHANGE			SPILL	OUTLET	C.F.S.	INCHES (1)	
		1,939.5								
1	2,336.80	1,940.5	+1.0	1,555	1,033	0	0	21	.05	.00
2	2,336.84	1,941.1	+0.6	1,302	978	0	0	38	.09	.00
3	2,336.86	1,941.4	+0.3	1,304	1,132	0	0	29	.07	.00
4	2,336.90	1,942.0	+0.6	1,316	1,001	0	0	29	.07	.03
5	2,336.92	1,942.2	+0.3	1,233	1,057	0	0	33	.08	.00
6	2,336.94	1,942.5	+0.3	1,278	1,089	0	0	46	.11	.00
7	2,336.96	1,942.8	+0.3	1,228	1,047	0	0	38	.09	.00
8	2,336.99	1,943.2	+0.4	1,299	1,042	0	0	42	.10	.00
9	2,337.06	1,944.2	+1.0	1,632	1,070	0	0	59	.14	.04
10	2,337.13	1,945.2	+1.0	1,652	1,148	0	0	0	.00	.43
11	2,337.21	1,946.4	+1.1	1,675	1,075	0	0	25	.06	.02
12	2,337.30	1,947.7	+1.3	1,824	1,148	0	0	29	.07	.05
13	2,337.50	1,950.5	+2.9	2,507	1,039	0	0	29	.07	.00
14	2,338.10	1,959.1	+8.6	4,651	318	0	0	13	.03	.39
15	2,339.52	1,979.5	+20.4	10,943	656	0	0	0	.00	1.04
16	2,340.31	1,990.9	+11.4	6,004	226	0	0	26	.06	.14
17	2,340.84	1,998.6	+7.7	4,128	211	0	0	47	.11	.04
18	2,341.15	2,003.1	+4.5	3,498	1,183	0	0	47	.11	.00
19	2,341.24	2,004.4	+1.3	2,933	2,230	0	0	43	.10	.00
20	2,341.32	2,005.5	+1.2	2,518	1,919	0	0	13	.03	.13
21	2,341.44	2,007.3	+1.7	2,582	1,659	0	0	43	.10	.00
22	2,341.57	2,009.2	+1.9	2,871	1,897	0	0	21	.05	.00
23	2,341.78	2,012.2	+3.1	3,184	1,627	0	0	17	.04	.26
24	2,341.85	2,013.2	+1.0	2,831	2,271	0	0	47	.11	.00
25	2,341.95	2,014.7	+1.5	2,905	2,129	0	0	43	.10	.00
26	2,342.30	2,019.8	+5.1	4,713	2,117	0	0	21	.05	.67
27	2,342.53	2,023.2	+3.4	3,974	2,221	0	0	60	.14	.01
28	2,342.72	2,025.9	+2.8	3,317	1,858	0	0	60	.14	.00
29	2,342.88	2,028.3	+2.3	3,322	2,079	0	0	65	.15	.00
30	2,343.13	2,031.9	+3.7	3,323	1,419	0	0	60	.14	.00
31	2,343.42	2,036.2	+4.3	4,074	1,861	0	0	69	.16	.00
TOTALS			+97.0	91,576	41,740	0	0	1,113	2.62	3.25
ACRE-FEET			+97,000	181,641	82,791	0	0	2,208		

COMMENTS:

* COMPUTED INFLOW IS THE SUM OF CHANGE IN STORAGE, RELEASES AND EVAPORATION.

(1) EVAPORATION AND PRECIPITATION RECORDS TAKEN FROM STATION AT TRINITY RIVER HATCHERY.

SUMMARY

POWER	82,791	OUTLET	0	PRECIPITATION	
SPILL	0	TOTAL	82,791	THIS MONTH =	3.25
				JULY 1, 2002 TO DATE =	29.03

UNITED STATES DEPARTMENT OF THE INTERIOR
U.S. BUREAU OF RECLAMATION-CENTRAL VALLEY PROJECT-CALIFORNIA

MARCH 2003

WHISKEYTOWN LAKE DAILY OPERATIONS

RUN DATE: March 11, 2004

DAY	ELEV	STORAGE 1000 ACRE-FEET IN LAKE CHANGE	COMPUTED INFLOW C.F.S. *	FROM JUDGE FRANCIS CARR PP	CLEAR CR. NATURAL FLOW	RELEASE - C.F.S.			EVAP. C.F.S. INCHES	PRECIP INCHES		
						TO CLEAR CR (1) OUTLETS	SPILL	TO SPRING CR. PP				
		202.1										
1	1,197.22	201.9	-0.2	1,063	832	231	200	0	945	6	.07	.00
2	1,197.38	202.4	+0.5	1,080	841	239	200	0	641	4	.05	.00
3	1,197.47	202.7	+0.3	1,037	823	214	200	0	699	5	.06	.00
4	1,197.53	202.8	+0.2	1,069	841	228	200	0	778	3	.04	.00
5	1,197.52	202.8	+0.0	988	811	177	200	0	797	6	.07	.00
6	1,197.52	202.8	+0.0	1,061	835	226	200	0	856	5	.06	.00
7	1,197.62	203.1	+0.3	1,072	811	261	200	0	720	5	.06	.00
8	1,198.19	204.8	+1.7	1,064	826	238	200	0	14	8	.09	.00
9	1,198.77	206.5	+1.7	1,079	815	264	200	0	14	4	.05	.03
10	1,198.69	206.2	-0.2	1,162	913	249	200	0	1,080	0	.00	.16
11	1,198.55	205.8	-0.4	1,125	870	255	200	0	1,133	0	.00	.00
12	1,198.46	205.6	-0.3	1,142	885	257	200	0	1,071	5	.06	.00
13	1,198.65	206.1	+0.6	1,510	849	661	200	0	1,023	5	.06	.00
14	1,198.98	207.1	+1.0	1,130	118	1,012	200	0	440	0	.00	2.55
15	1,200.09	210.4	+3.3	3,545	118	3,427	200	0	1,682	0	.00	2.92
16	1,199.69	209.2	-1.2	1,725	118	1,607	200	0	2,125	0	.00	.20
17	1,198.93	206.9	-2.3	1,236	118	1,118	200	0	2,173	0	.00	.12
18	1,198.57	205.9	-1.1	1,818	924	894	200	0	2,148	5	.06	.00
19	1,198.71	206.3	+0.4	2,615	1,759	856	200	0	2,197	10	.11	.00
20	1,198.74	206.4	+0.1	2,426	1,684	742	200	0	2,182	0	.00	.12
21	1,198.58	205.9	-0.5	2,028	1,388	640	200	0	2,062	3	.04	.00
22	1,198.55	205.8	-0.1	2,193	1,560	633	200	0	2,032	6	.07	.00
23	1,198.36	205.3	-0.6	1,954	1,385	569	200	0	2,036	0	.00	.50
24	1,198.55	205.8	+0.6	2,515	1,994	521	200	0	2,033	0	.00	.00
25	1,198.59	205.9	+0.1	2,298	1,772	526	200	0	2,031	8	.09	.00
26	1,198.70	206.3	+0.3	2,392	1,836	556	200	0	2,029	0	.00	.30
27	1,198.81	206.6	+0.3	2,402	1,933	469	200	0	2,028	11	.13	.00
28	1,198.69	206.2	-0.4	2,058	1,638	420	200	0	2,025	11	.13	.00
29	1,198.72	206.3	+0.1	2,278	1,828	450	200	0	2,023	11	.13	.00
30	1,198.71	206.3	+0.0	1,587	1,131	456	200	0	1,367	35	.40	.00
31	1,198.91	206.9	+0.6	1,851	1,431	420	200	0	1,349	5	.06	.00
TOTALS			+4.8	52,503	33,687	18,816	6,200	0	43,733	161	1.89	6.90
ACRE-FEET			+4.8	104,140	66,818	37,322	12,298	0	86,744	319		

* COMPUTED INFLOW IS THE SUM OF CHANGE IN STORAGE, RELEASES AND EVAPORATION.

(1) WATER TO CLEAR CREEK BEING DISCHARGED THROUGH 972.00-1110.00 ELEVATION OUTLET.

SUMMARY

	RELEASE (ACRE-FEET)			PRECIPITATION	
POWER	86,744	OUTLET	12,298	THIS MONTH	6.90
SPILL	0	TOTAL	99,042	JULY 1, 2002 TO DATE	60.36

UNITED STATES DEPARTMENT OF THE INTERIOR
U.S. BUREAU OF RECLAMATION-CENTRAL VALLEY PROJECT-CALIFORNIA

Table 6

MARCH 2003

LEWISTON LAKE DAILY OPERATIONS

RUN DATE: April 21, 2003

DAY	ELEV	STORAGE		COMPUTED* INFLOW C.F.S.	RELEASE - C.F.S.			JUDGE FRANCIS CARR POWERPLANT	EVAPORATION (2)	
		IN LAKE	CHANGE		POWER	RIVER OUTLETS (1)	SPILL		C.F.S.	INCHES
		14,091								
1	1,901.14	14,016	-75	1,095	80	45	175	832	1	.05
2	1,901.01	13,918	-98	1,094	80	45	175	841	2	.09
3	1,901.29	14,128	+210	1,231	80	45	175	823	2	.07
4	1,901.16	14,031	-97	1,094	80	45	175	841	2	.07
5	1,901.26	14,105	+74	1,150	80	45	175	811	2	.08
6	1,901.32	14,150	+45	1,160	80	45	175	835	2	.11
7	1,901.31	14,143	-7	1,109	80	45	175	811	2	.09
8	1,901.13	14,008	-135	1,060	13	45	242	826	2	.10
9	1,901.24	14,091	+83	1,160	0	45	255	815	3	.14
10	1,901.20	14,061	-30	1,198	0	45	255	913	0	.00
11	1,900.98	13,896	-165	1,088	0	45	255	870	1	.06
12	1,900.98	13,896	+0	1,187	0	45	255	885	2	.07
13	1,900.77	13,742	-154	1,073	0	45	255	849	2	.07
14	1,900.72	13,705	-37	400	0	45	255	118	1	.03
15	1,901.66	14,405	+700	771	0	45	255	118	0	.00
16	1,901.37	14,188	-217	310	0	45	255	118	1	.06
17	1,901.03	13,933	-255	291	0	45	255	118	2	.11
18	1,900.98	13,896	-37	1,207	0	45	255	924	2	.11
19	1,901.55	14,322	+426	2,276	0	45	255	1,759	2	.10
20	1,901.44	14,240	-82	1,944	0	45	255	1,684	1	.03
21	1,901.38	14,195	-45	1,667	0	45	255	1,388	2	.10
22	1,901.52	14,300	+105	1,914	0	45	255	1,560	1	.05
23	1,901.38	14,195	-105	1,633	0	45	255	1,385	1	.04
24	1,901.32	14,150	-45	2,273	0	45	255	1,994	2	.11
25	1,901.51	14,292	+142	2,146	0	45	255	1,772	2	.10
26	1,901.50	14,285	-7	2,133	0	45	255	1,836	1	.05
27	1,901.42	14,225	-60	2,206	0	45	255	1,933	3	.14
28	1,901.22	14,076	-149	1,866	0	45	255	1,638	3	.14
29	1,900.85	13,801	-275	1,992	0	45	255	1,828	3	.15
30	1,901.07	13,963	+162	1,516	0	45	255	1,131	3	.14
31	1,901.21	14,068	+105	1,788	0	45	255	1,431	4	.16
TOTALS			-23	43,032	573	1,395	7,332	33,687	57	2.62
ACRE-FEET			-23	85,354	1,137	2,767	14,543	66,818	113	

* COMPUTED INFLOW IS THE SUM OF CHANGE IN STORAGE, RELEASES AND EVAPORATION.

(1) OUTLET RELEASE INCLUDES THE CONTINUOUS FISH RELEASE OF 75 C.F.S.

(2) INCHES OF EVAPORATION TAKEN FROM PAN AT TRINITY RIVER HATCHERY

SUMMARY

RELEASE (ACRE-FEET)	
TOTAL POWER	1,137
TOTAL RIVER	18,447
JUDGE FRANCIS CARR POWERPLANT	66,818
TOTAL RELEASE	85,265

UNITED STATES DEPARTMENT OF THE INTERIOR
 U.S. BUREAU OF RECLAMATION-CENTRAL VALLEY PROJECT-CALIFORNIA

Table 7

MARCH 2003

SPRING CREEK DEBRIS RESERVOIR DAILY OPERATIONS

RUN DATE: April 21, 2003

DAY	ELEV	STORAGE		COMPUTED* INFLOW C.F.S.	RELEASE - C.F.S.		— SPRING CR DEBRIS DAM —		**KES COPPER MG/L
		ACRE-FEET IN LAKE	CHANGE		SPILL	OUTLET	TIME	COPPER ZINC	
		848							
1	711.00	891	+43	22	0	0			
2	712.20	927	+36	18	0	0			
3	713.26	959	+32	16	0	0			
4	714.24	991	+32	16	0	0			
5	715.16	1,020	+29	15	0	0			
6	716.02	1,049	+29	15	0	0			
7	716.73	1,072	+23	12	0	0			
8	717.48	1,097	+25	13	0	0			
9	718.14	1,120	+23	12	0	0			
10	718.76	1,142	+22	11	0	0			
11	718.57	1,135	-7	9	0	13			
12	717.73	1,106	-29	5	0	20			
13	719.04	1,151	+45	37	0	14			
14	723.32	1,308	+157	89	0	10			
15	739.73	2,017	+709	367	0	10			
16	743.71	2,218	+201	111	0	10			
17	745.62	2,319	+101	66	0	15			
18	746.22	2,352	+33	47	0	30			
19	746.55	2,370	+18	39	0	30			
20	746.62	2,374	+4	32	0	30			
21	746.57	2,371	-3	28	0	30			
22	746.46	2,365	-6	27	0	30			
23	746.20	2,351	-14	23	0	30			
24	745.86	2,332	-19	20	0	30			
25	745.06	2,289	-43	18	0	40			
26	743.88	2,227	-62	19	0	50			
27	742.55	2,158	-69	15	0	50			
28	741.14	2,087	-71	14	0	50			
29	739.63	2,012	-75	12	0	50			
30	738.08	1,938	-74	13	0	50			
31	736.53	1,864	-74	13	0	50			
TOTALS			+1,016	1,154	0	642			
ACRE-FEET			+1,016	2,289	0	1,273			

COMMENTS:

* COMPUTED INFLOW IS THE SUM OF CHANGE IN STORAGE, RELEASES AND EVAPORATION.

SUMMARY

RELEASE (ACRE-FEET)	
SPILL	0
OUTLET	1,273
TOTAL	1,273

UNITED STATES DEPARTMENT OF THE INTERIOR
 U.S. BUREAU OF RECLAMATION-CENTRAL VALLEY PROJECT-CALIFORNIA

Table 8

MARCH 2003

KESWICK RESERVOIR DAILY OPERATIONS

RUN DATE: April 21, 2003

DAY	ELEV	STORAGE ACRE-FEET RES.	CHANGE	COMPUTED* INFLOW C.F.S.	SPRING CR. P. P. RELEASE	SHASTA RELEASE C.F.S	POWER	RELEASE - C.F.S. SPILL	FISHTRAP	EVAP C.F.S. (1)
		22,217								
1	585.16	22,607	+390	6,037	945	4,981	5,753	0	85	2
2	584.07	21,933	-674	5,307	641	4,481	5,560	0	85	2
3	584.52	22,211	+278	5,591	699	4,679	5,363	0	85	3
4	584.09	21,946	-265	5,119	778	4,172	5,168	0	85	0
5	583.66	21,684	-262	4,916	797	3,929	4,961	0	85	2
6	583.62	21,659	-25	4,833	856	3,847	4,758	0	85	3
7	584.09	21,946	+287	4,801	720	3,868	4,569	0	85	2
8	584.90	22,445	+499	4,735	14	4,364	4,396	0	85	2
9	585.39	22,752	+307	4,421	14	4,164	4,179	0	85	2
10	584.19	22,007	-745	3,643	1,080	2,426	3,934	0	85	0
11	583.97	21,872	-135	3,928	1,133	2,704	3,909	0	85	2
12	583.91	21,835	-37	3,983	1,071	2,834	3,917	0	85	0
13	583.93	21,848	+13	4,026	1,023	2,844	3,933	0	85	1
14	584.54	22,223	+375	4,173	440	3,459	3,899	0	85	0
15	585.46	22,796	+573	4,434	1,682	1,522	4,058	0	85	2
16	584.60	22,260	-536	3,745	2,125	1,246	3,928	0	85	2
17	583.38	21,514	-746	3,642	2,173	1,226	3,933	0	85	0
18	583.07	21,325	-189	3,916	2,148	1,559	3,923	0	85	3
19	583.00	21,283	-42	3,987	2,197	1,623	3,921	0	85	2
20	583.06	21,319	+36	4,006	2,182	1,651	3,902	0	85	1
21	583.01	21,289	-30	3,976	2,062	1,755	3,905	0	85	1
22	583.56	21,623	+334	4,077	2,032	1,831	3,823	0	85	1
23	583.95	21,860	+237	3,929	2,036	1,716	3,724	0	85	1
24	584.26	22,050	+190	3,804	2,033	1,552	3,621	0	85	2
25	585.13	22,589	+539	4,023	2,031	1,544	3,663	0	85	3
26	585.22	22,645	+56	3,783	2,029	1,355	3,669	0	85	1
27	585.15	22,601	-44	3,719	2,028	1,310	3,653	0	85	3
28	584.92	22,458	-143	3,750	2,025	1,390	3,733	0	85	4
29	584.65	22,291	-167	3,757	2,023	1,413	3,753	0	85	3
30	583.50	21,587	-704	3,292	1,367	1,560	3,558	0	85	4
31	584.58	22,248	+661	3,909	1,349	2,260	3,488	0	85	3
TOTALS			+31	131,262	43,733	79,265	128,554	0	2,635	57
ACRE-FEET			+31	260,358	86,744	157,222	254,987	0	5,227	113

*COMPUTED INFLOW IS SUM OF CHANGE IN STORAGE, RELEASES, AND EVAPORATION.

(1) EVAPORATION RECORDS TAKEN FROM SHASTA PAN.

SUMMARY
 RELEASE (ACRE-FEET)

POWER 254,987
 SPILL 0
 FISH TRAP 5,227

UNITED STATES DEPARTMENT OF THE INTERIOR
 U.S. BUREAU OF RECLAMATION-CENTRAL VALLEY PROJECT-CALIFORNIA

MARCH 2003

RED BLUFF DIVERSION RESERVOIR DAILY OPERATIONS

RUN DATE: May 15, 2003

DAY	ELEVATION	STORAGE		RELEASE C.F.S		RELEASE TO SACTO RIVER
		IN LAKE	ACRE-FEET CHANGE	CORNING CANAL	TEHAMA COLUSA CANAL	
		352				
1	238.50	299	-53	0	165	7,411
2	238.37	286	-13	0	160	7,298
3	238.30	279	-7	0	156	7,142
4	238.25	274	-5	0	159	6,989
5	238.16	264	-10	0	104	6,543
6	238.10	258	-6	0	79	6,279
7	238.00	248	-10	0	104	6,081
8	237.85	235	-13	0	78	5,835
9	237.70	223	-12	0	80	5,742
10	237.64	217	-6	0	76	5,621
11	237.53	208	-9	0	87	5,534
12	237.54	209	+1	0	16	5,649
13	237.56	211	+2	0	0	5,698
14	237.57	211	+0	0	0	5,715
15	238.58	307	+96	0	0	18,184
16	243.49	1,031	+724	0	0	16,211
17	240.13	488	-543	0	0	12,036
18	239.23	378	-110	0	0	10,192
19	238.69	318	-60	0	0	8,463
20	238.44	293	-25	0	0	7,875
21	238.69	318	+25	0	0	8,562
22	238.27	276	-42	0	76	8,116
23	238.27	276	+0	0	66	10,742
24	239.24	379	+103	0	0	9,764
25	238.44	293	-86	0	57	7,678
26	238.18	266	-27	0	57	6,152
27	238.76	326	+60	0	113	8,647
28	238.67	316	-10	0	165	8,106
29	238.25	274	-42	0	165	6,438
30	238.08	256	-18	0	104	6,126
31	237.89	239	-17	0	101	5,814
TOTALS			-113	0	2,168	246,643
ACRE-FEET			-113	0	4,300	489,216

SUMMARY

RELEASE (ACRE-FEET)

CORNING CANAL	0
TEHAMA-COLUSA CANAL	4,300
TO SACTO RIVER	489,216
TOTAL	493,516

CORPS OF ENGINEERS, U.S. ARMY
Sacramento District Sacramento, California

DAILY OPERATION OF BLACK BUTTE RESERVOIR, STONY CREEK, CALIFORNIA

MARCH 2003

Date	Midnight	Storage (ac-ft)	Storage Change (ac-ft)	Mean Inflow (sfd)	----- Mean Outflow -----				Gross Evap (ac-ft)	Pan Evap (in)	Prec (in)	Total U S Storage (ac-ft)	Top Con Storage (ac-ft)
	Elev (ft)				Total (sfd)	River (sfd)	[1] (sfd)	[2] (sfd)					
1	457.58	75766	388	249	36	36	0	0	34	0.19	0	89920	75500
2	457.69	76123	357	228	36	36	0	0	24	0.13	0	90386	77400
3	457.79	76449	326	207	35	35	0	0	16	0.09	0	90856	79600
4	457.89	76775	326	208	36	36	0	0	16	0.09	0	91283	81700
5	457.99	77101	326	211	36	36	0	0	22	0.12	0	91710	83700
6	458.08	77396	295	191	33	33	0	0	18	0.1	0	92146	85600
7	458.17	77691	295	190	32	32	0	0	18	0.1	0	92543	87800
8	458.25	77954	263	174	32	32	0	0	18	0.1	0	92967	89600
9	458.34	78251	297	187	32	32	0	0	11	0.06	0.01	93380	91700
10	458.42	78515	264	174	32	32	0	0	18	0.1	0	93784	93700
11	458.5	78779	264	175	32	32	0	0	19	0.1	0	94201	95500
12	458.6	79111	332	208	32	32	0	0	17	0.09	0	94071	96800
13	458.9	80109	998	545	33	33	0	0	17	0.09	0.61	93911	96800
14	459.25	81282	1173	627	33	33	0	0	6	0.03	1.33	94722	91000
15	461.29	88290	7008	3581	34	34	0	0	27	0.14	0	96747	85200
16	462.66	93151	4861	2492	33	33	0	0	16	0.08	0.28	96135	86400
17	463.63	96663	3512	1829	33	33	0	0	51	0.25	0	95769	88400
18	464.25	98941	2278	1208	33	33	0	0	52	0.25	0	95542	90300
19	464.83	101094	2153	1131	33	33	0	0	25	0.12	0.07	95141	92700
20	465.3	102855	1761	934	33	33	0	0	27	0.13	0	95472	95000
21	465.66	104215	1360	727	34	34	0	0	15	0.07	0	95639	97200
22	466	105507	1292	691	33	33	0	0	13	0.06	0	95737	99800
23	466.37	106923	1416	767	32	32	0	0	41	0.19	0	95862	102500
24	466.71	108232	1309	708	30	30	0	0	35	0.16	0	95920	104400
25	467.04	109511	1279	686	30	30	0	0	22	0.1	0.06	95928	107100
26	467.44	111072	1561	847	31	31	0	0	57	0.26	0	96020	108800
27	467.74	112251	1179	659	31	31	0	0	66	0.3	0	96630	111000
28	467.99	113238	987	558	31	31	0	0	58	0.26	0	96662	113400
29	468.31	114509	1271	701	31	31	0	0	58	0.26	0	96612	115100
30	468.61	115708	1199	657	31	31	0	0	43	0.19	0	96561	117000
31	468.85	116672	964	534	30	30	0	0	36	0.16	0	97100	119700
Totals	(sfd)			22284	1013	1013	0	0					
Totals	(ac-ft)		41294	44200	2009.3	2009.3			896				
Totals	(inches)									4.37	2.36		

[1] South Diversion Canal, [2] Wakerman Ranch Diversion above South Diversion Canal Measuring Weir

*** Preliminary - Data Subject to Revision ***

UNITED STATES DEPARTMENT OF THE INTERIOR
 U.S. BUREAU OF RECLAMATION-CENTRAL VALLEY PROJECT-CALIFORNIA

Table 11

MARCH 2003

FOLSOM LAKE DAILY OPERATIONS

RUN DATE: April 21, 2003

DAY	ELEV	STORAGE		COMPUTED* INFLOW C.F.S.	POWER	RELEASE - C.F.S.		PUMPING PLANT	EVAPORATION		PRECIP INCHES
		1000 ACRE-FEET IN LAKE	CHANGE			RIVER SPILL	OUTLET		C.F.S.	INCHES	
		531.4									
1	420.27	530.2	-1.2	2,201	2,624	0	0	133	25	.09	.00
2	420.13	529.1	-1.2	2,021	2,421	0	0	142	39	.14	.00
3	420.00	528.0	-1.1	2,117	2,522	0	0	106	28	.10	.00
4	420.18	529.5	+1.5	3,237	2,356	0	0	115	19	.07	.00
5	420.26	530.1	+0.7	2,621	2,145	0	0	122	22	.08	.00
6	420.28	530.3	+0.2	2,244	2,011	0	0	120	30	.11	.00
7	420.55	532.5	+2.2	3,176	1,900	0	0	127	28	.10	.00
8	420.62	533.1	+0.6	2,586	2,130	0	0	138	28	.10	.00
9	420.46	531.8	-1.3	1,660	2,158	0	0	136	30	.11	.00
10	420.47	531.9	+0.1	2,351	2,137	0	0	143	30	.11	.00
11	420.49	532.0	+0.2	2,425	2,166	0	0	148	28	.10	.00
12	420.52	532.3	+0.2	2,321	2,049	0	0	125	22	.08	.00
13	420.77	534.3	+2.1	3,207	2,038	0	0	104	28	.10	.00
14	421.11	537.1	+2.8	3,643	2,098	0	0	94	36	.13	.08
15	422.12	545.5	+8.4	6,471	2,077	0	0	99	62	.22	1.24
16	422.88	551.9	+6.4	5,306	1,939	0	0	108	48	.17	.09
17	423.36	555.9	+4.1	4,048	1,886	0	0	111	9	.03	.04
18	423.67	558.6	+2.6	3,534	2,115	0	0	58	40	.14	.00
19	423.91	560.6	+2.0	3,367	2,172	0	0	126	46	.16	.00
20	424.38	564.6	+4.0	4,248	2,081	0	0	114	34	.12	.39
21	424.70	567.3	+2.7	3,636	2,111	0	0	115	34	.12	.00
22	424.87	568.8	+1.5	3,034	2,149	0	0	113	40	.14	.00
23	425.45	573.8	+5.0	4,724	2,088	0	0	92	32	.11	.17
24	426.19	580.1	+6.4	5,494	2,151	0	0	111	14	.05	.06
25	426.99	587.1	+6.9	5,424	1,805	0	0	116	3	.01	.00
26	427.80	594.2	+7.1	5,533	1,818	0	0	113	29	.10	.00
27	428.77	602.7	+8.5	6,297	1,838	0	0	127	24	.08	.00
28	429.60	610.1	+7.4	5,771	1,862	0	0	126	68	.23	.00
29	430.03	613.9	+3.8	4,172	2,018	0	0	160	65	.22	.00
30	430.29	616.3	+2.3	3,308	1,921	0	0	158	54	.18	.00
31	430.68	619.7	+3.5	3,993	2,022	0	0	160	48	.16	.00
TOTALS			+88.4	114,170	64,808	0	0	3,760	1,043	3.66	2.07
ACRE-FEET			+88,400	226,456	128,547	0	0	7,458	2,069		

COMMENTS:

* COMPUTED INFLOW IS THE SUM OF CHANGE IN STORAGE, RELEASES, PUMPING AND EVAPORATION.

SUMMARY

	RELEASE (ACRE-FEET)			PRECIPITATION	
POWER	128,547	OUTLET	0	THIS MONTH =	2.07
SPILL	0	TOTAL	136,005	JULY 1, 2002 TO DATE =	14.39
PUMPING PLANT	7,458				

UNITED STATES DEPARTMENT OF THE INTERIOR
U.S. BUREAU OF RECLAMATION-CENTRAL VALLEY PROJECT-CALIFORNIA

Table 12

MARCH 2003

LAKE NATOMA DAILY OPERATIONS

RUN DATE: April 21, 2003

DAY	ELEV	STORAGE		COMPUTED* INFLOW C.F.S.	FOLSOM SOUTH CANAL	RELEASE - C.F.S.			EVAP C.F.S. (1)
		ACRE-FEET IN LAKE	CHANGE			POWER	SPILL	HATCHERY	
1	124.83	8,516							
2	124.47	8,676	+160	2,580	0	2,438	0	60	1
3	124.46	8,496	-180	2,412	0	2,441	0	60	2
4	124.46	8,491	-5	2,504	0	2,446	0	60	1
5	124.15	8,336	-155	2,334	6	2,345	0	60	1
6	124.30	8,411	+75	2,067	16	1,952	0	60	1
7	124.05	8,286	-125	1,975	26	1,951	0	60	1
8	123.28	7,923	-363	1,854	30	1,946	0	60	1
9	123.44	7,998	+75	2,067	30	1,938	0	60	1
10	123.53	8,040	+42	2,058	30	1,946	0	60	1
11	123.64	8,092	+52	2,059	30	1,942	0	60	1
12	123.86	8,195	+103	2,081	30	1,938	0	60	1
13	123.76	8,148	-47	2,009	30	1,942	0	60	1
14	123.53	8,040	-108	1,981	30	1,944	0	60	1
15	123.56	8,054	+14	2,041	27	1,945	0	60	2
16	124.15	8,336	+282	2,165	20	1,940	0	60	3
17	123.76	8,148	-188	1,931	20	1,944	0	60	2
18	123.08	7,829	-319	1,866	20	1,947	0	60	0
19	123.14	7,857	+28	2,037	23	1,938	0	60	2
20	123.45	8,003	+146	2,111	30	1,945	0	60	2
21	123.50	8,026	+23	2,045	30	1,941	0	60	2
22	123.63	8,087	+61	2,061	30	1,938	0	60	2
23	123.85	8,191	+104	2,077	30	1,933	0	60	2
24	123.80	8,167	-24	2,030	30	1,951	0	60	1
25	124.06	8,291	+124	2,092	30	1,938	0	60	1
26	123.57	8,059	-232	1,727	30	1,754	0	60	0
27	123.08	7,829	-230	1,722	30	1,747	0	60	1
28	122.90	7,746	-83	1,794	30	1,745	0	60	1
29	122.68	7,647	-99	1,781	30	1,738	0	60	3
30	122.93	7,760	+113	1,893	30	1,743	0	60	3
31	122.95	7,769	+9	1,835	30	1,738	0	60	2
31	123.23	7,899	+130	1,899	30	1,741	0	60	2
TOTALS			-617	63,088	758	60,735	0	1,860	45
ACRE-FEET			-617	125,135	1,503	120,468	0	3,689	89

COMMENTS:

* COMPUTED INFLOW IS THE SUM OF CHANGE IN STORAGE, RELEASES AND EVAPORATION.

(1) INCHES OF EVAPORATION TAKEN FROM FOLSOM PAN.

SUMMARY

	RELEASES (ACRE-FEET)			RELEASES (ACRE-FEET)	
POWER	120,468	FOLSOM SOUTH CANAL	1,503	TOTAL	125,660
SPILL	0	HATCHERY	3,689		

UNITED STATES DEPARTMENT OF THE INTERIOR
U.S. BUREAU OF RECLAMATION-CENTRAL VALLEY PROJECT-CALIFORNIA

MARCH 2003

NEW MELONES LAKE DAILY OPERATIONS

RUN DATE: March 12, 2004

DAY	ELEV	STORAGE		COMPUTED* INFLOW C.F.S.	POWER	RELEASE - C.F.S.		EVAPORATION		PRECIP INCHES
		1000 ACRE-FEET IN LAKE	CHANGE			SPILL	OUTLET	C.F.S.	INCHES	
		1,426.8								
1	995.29	1,428.3	+1.5	850	48	0	0	29	.10	.00
2	995.46	1,429.8	+1.5	840	48	0	0	18	.06	.00
3	995.37	1,429.0	-0.8	1,130	1,508	0	0	32	.11	.00
4	995.41	1,429.4	+0.4	1,073	871	0	0	20	.07	.00
5	995.44	1,429.7	+0.3	1,060	888	0	0	35	.12	.00
6	995.48	1,430.0	+0.4	1,094	883	0	0	29	.10	.00
7	995.42	1,429.5	-0.5	773	1,023	0	0	23	.08	.00
8	995.29	1,428.3	-1.2	767	1,324	0	0	35	.12	.00
9	995.42	1,429.5	+1.2	669	48	0	0	29	.10	.00
10	995.25	1,427.9	-1.5	700	1,454	0	0	20	.07	.00
11	995.22	1,427.7	-0.3	941	1,033	0	0	44	.15	.00
12	995.20	1,427.5	-0.2	915	991	0	0	15	.05	.00
13	995.21	1,427.6	+0.1	1,097	1,008	0	0	44	.15	.00
14	995.24	1,427.9	+0.3	1,031	859	0	0	35	.12	.00
15	995.35	1,428.9	+1.0	2,074	1,523	0	0	50	.17	.81
16	995.46	1,429.8	+1.0	1,263	707	0	0	55	.19	.63
17	995.44	1,429.7	-0.2	1,061	1,146	0	0	6	.02	.05
18	995.39	1,429.2	-0.5	1,046	1,229	0	0	44	.15	.00
19	995.24	1,427.9	-1.4	1,022	1,661	0	0	44	.15	.00
20	995.18	1,427.3	-0.5	931	1,175	0	0	29	.10	.04
21	995.16	1,427.1	-0.2	1,154	1,207	0	0	38	.13	.00
22	995.08	1,426.4	-0.7	1,058	1,387	0	0	35	.12	.00
23	995.07	1,426.3	-0.1	1,313	1,320	0	0	38	.13	.12
24	995.03	1,426.0	-0.4	1,505	1,681	0	0	6	.02	.18
25	995.09	1,426.5	+0.5	1,501	1,187	0	0	41	.14	.00
26	994.98	1,425.5	-1.0	1,396	1,861	0	0	35	.12	.02
27	995.29	1,428.3	+2.8	1,599	160	0	0	29	.10	.00
28	995.30	1,428.4	+0.1	1,541	1,451	0	0	44	.15	.00
29	994.96	1,425.3	-3.1	1,215	2,718	0	0	44	.15	.00
30	994.98	1,425.5	+0.2	1,261	1,123	0	0	47	.16	.00
31	994.94	1,425.2	-0.4	1,538	1,672	0	0	47	.16	.00
TOTALS			-1.7	35,418	35,194	0	0	1,040	3.56	1.85
ACRE-FEET			-1,700	70,252	69,807	0	0	2,063		

COMMENTS:

* COMPUTED INFLOW IS THE SUM OF CHANGE IN STORAGE, RELEASES AND EVAPORATION.

SUMMARY

RELEASE (ACRE-FEET)		PRECIPITATION	
POWER	69,807	OUTLET	0
SPILL	0	TOTAL	69,807
		THIS MONTH =	1.85
		JULY 1, 2002 TO DATE =	17.44

OAKDALE IRRIGATION DISTRICT
 SOUTH SAN JOAQUIN IRRIGATION DISTRICT
 TRI DAMS PROJECT-CALIFORNIA

MARCH 2003

GOODWIN RESERVOIR DAILY OPERATIONS

RUN DATE: September 14, 2004

DAY	ELEV	STORAGE ACRE-FEET RES. CHANGE		TULLOCH RELEASE	RELEASE - C.F.S.			
					RIVER		CANALS	
				OUTLET	SPILL	JOINT MAIN	SOUTH MAIN	
		552						
1	360.22	552	+0	479	0	495	3	0
2	360.22	552	+0	476	0	491	3	0
3	360.19	550	-2	712	0	495	226	0
4	360.19	550	+0	867	0	492	394	0
5	360.19	550	+0	868	0	491	396	0
6	360.22	552	+2	947	0	503	473	0
7	360.19	550	-2	1,008	0	493	550	0
8	360.19	550	+0	1,010	0	491	553	0
9	360.19	550	+0	1,010	0	486	555	0
10	360.22	552	+2	1,015	0	488	555	0
11	360.22	552	+0	1,018	0	490	555	0
12	360.22	552	+0	1,013	0	493	555	0
13	360.19	550	-2	1,024	0	488	556	0
14	360.19	550	+0	1,032	0	492	557	0
15	360.19	550	+0	1,022	0	489	557	0
16	360.19	550	+0	1,162	0	489	683	0
17	360.16	548	-2	1,206	0	470	750	0
18	360.16	548	+0	1,179	0	437	752	0
19	360.16	548	+0	1,214	0	434	752	35
20	360.16	548	+0	966	0	435	753	101
21	360.16	548	+0	1,306	0	436	754	119
22	360.19	550	+2	1,414	0	434	754	179
23	360.16	548	-2	1,446	0	435	755	214
24	360.19	550	+2	1,361	0	437	678	211
25	360.16	548	-2	1,310	0	433	628	217
26	360.19	550	+2	1,320	0	432	628	230
27	360.16	548	-2	1,351	0	424	650	245
28	360.16	548	+0	1,390	0	432	673	255
29	360.16	548	+0	1,428	0	437	697	255
30	360.27	556	+8	1,522	0	483	733	255
31	360.24	554	-2	1,742	0	578	864	247
TOTALS			+2	34,818	0	14,603	17,992	2,563
ACRE-FEET			+2	69,062	0	28,965	35,687	5,084

JOINT MAIN OPERATED BY SSJID AND OID.
 SOUTH MAIN OPERATED BY OID.

SUMMARY
 RELEASE (ACRE-FEET)

JOINT MAIN CANAL	35,687	OUTLET	0
SOUTH MAIN CANAL	5,084	SPILL	28,965
		TOTAL	69,736

UNITED STATES DEPARTMENT OF THE INTERIOR
U.S. BUREAU OF RECLAMATION-CENTRAL VALLEY PROJECT-CALIFORNIA

MARCH 2003

MILLERTON LAKE DAILY OPERATIONS

RUN DATE: March 12, 2004

DAY	ELEV	STORAGE		COMPUTED* INFLOW C.F.S.	RELEASE - C.F.S.				EVAPORATION C.F.S.	PRECIP INCHES	
		1000 ACRE-FEET IN LAKE	CHANGE		CANALS		RIVER				
					MADERA	FRIANT-KERN	SPILL	OUTLET			
		410.5									
1	554.86	414.0	+3.6	2,203	0	301	0	101	6	.04	
2	555.62	417.3	+3.3	2,099	0	331	0	102	13	.09	
3	556.14	419.6	+2.2	1,580	0	324	0	102	21	.15	
4	556.82	422.5	+3.0	1,897	0	305	0	102	1	.01	
5	557.43	425.2	+2.7	1,768	0	306	0	103	17	.12	
6	557.98	427.6	+2.4	1,641	0	307	0	103	18	.13	
7	558.29	428.9	+1.4	1,107	0	307	0	103	10	.07	
8	558.55	430.1	+1.1	1,000	0	308	0	103	13	.09	
9	558.67	430.6	+0.5	701	0	308	0	103	24	.17	
10	558.75	431.0	+0.4	599	0	308	0	103	11	.08	
11	558.81	431.2	+0.3	550	0	308	0	103	6	.04	
12	558.99	432.0	+0.8	820	0	309	0	103	9	.06	
13	559.20	432.9	+0.9	904	0	309	0	103	24	.17	
14	559.54	434.4	+1.5	1,207	0	309	0	103	36	.25	
15	560.41	438.3	+3.9	2,401	0	310	0	103	43	.30	
16	560.84	440.2	+1.9	1,410	0	311	0	103	33	.23	
17	561.06	441.2	+1.0	913	0	312	0	103	4	.03	
18	561.36	442.5	+1.3	1,107	0	312	0	103	16	.11	
19	561.66	443.9	+1.3	1,109	0	313	0	103	17	.12	
20	561.94	445.1	+1.3	1,066	0	313	0	107	15	.10	
21	562.59	448.1	+2.9	1,919	0	314	0	110	22	.15	
22	562.80	449.0	+0.9	935	0	315	0	110	34	.23	
23	563.02	450.0	+1.0	944	0	315	0	110	19	.13	
24	563.40	451.7	+1.7	1,397	0	396	0	130	4	.03	
25	563.81	453.6	+1.9	1,560	0	454	0	145	26	.18	
26	564.01	454.5	+0.9	1,107	0	479	0	145	26	.18	
27	564.48	456.6	+2.1	1,751	0	497	0	145	31	.21	
28	564.95	458.7	+2.1	1,746	0	497	0	146	24	.16	
29	565.21	459.9	+1.2	1,271	0	497	0	146	28	.19	
30	565.56	461.5	+1.6	1,479	0	497	0	147	27	.18	
31	566.25	464.7	+3.2	2,426	0	643	0	147	39	.26	
TOTALS			+54.2	42,617	0	11,115	0	3,540	617	4.26	.88
ACRE-FEET			+54,240	84,531	0	22,047	0	7,022	1,224		

COMMENTS:

* COMPUTED INFLOW IS THE SUM OF CHANGE IN STORAGE, RELEASES, PUMPING AND EVAPORATION.

SUMMARY

RELEASE (ACRE-FEET)		PRECIPITATION	
CANALS	RIVER		
FRIANT-KERN	AT FRIANT	THIS MONTH =	0.88
MADERA	TOTAL RELEASES	JULY 1, 2002 TO DATE =	8.31

Table 16

U.S. Bureau of Reclamation - Central Valley Operations Office
Delta Outflow Computation (values in c.f.s.)

March 2003

Estimated numbers are in bold italic print

Date	DELTA INFLOW								NDCU	DELTA EXPORTS							OUTFLOW INDEX			Export/Inflow		
	Sacto R @Freeport -prev day-	SRTP -prev wk-	Yolo + Misc -prev day-	East Side Streams -prev day-	S. Joaquin River@Vernalis -prev day-	7-day Average	Monthly Average	Total Delta Inflow		Clifton Court (CLT)	Tracy (TRA)	Contra Costa (CCC)	Byron Bethany (BBID)	NBA	Total Delta Exports	3-day Avg TRA & CLT	NDOI daily	7-day Avg	Monthly Avg	Daily (%)	3 Day (%)	14 Day (%)
1-Mar-03	30,030	167	0	503	2,029	2,003	2,019	32,729	494	7,258	4,345	259	0	31	11,894	9,550	20,341	27,968	20,341	35.5%	26.9%	22.9%
2-Mar-03	27,521	166	0	488	2,019	2,018	2,034	30,194	544	7,038	4,294	254	0	30	11,615	10,878	18,036	26,056	19,189	37.5%	33.1%	26.5%
3-Mar-03	25,321	166	0	473	2,048	2,042	2,062	28,008	772	7,253	4,311	257	0	33	11,854	11,500	15,382	23,943	17,920	41.3%	37.9%	28.6%
4-Mar-03	23,213	165	0	459	2,119	2,060	2,079	25,956	772	7,227	4,320	260	0	33	11,839	11,481	13,345	21,788	16,776	44.5%	40.9%	29.5%
5-Mar-03	21,752	164	0	455	2,130	2,063	2,074	24,501	1,050	7,340	4,308	256	0	30	11,933	11,586	11,517	19,073	15,724	47.5%	44.3%	31.1%
6-Mar-03	20,770	163	0	454	2,053	2,066	2,073	23,440	1,050	7,061	4,301	257	0	30	11,650	11,519	10,740	16,369	14,894	48.5%	46.8%	32.4%
7-Mar-03	19,564	161	0	442	2,067	2,081	2,081	22,234	1,050	7,343	4,297	256	44	36	11,889	11,550	9,296	14,094	14,094	52.2%	49.3%	34.1%
8-Mar-03	19,000	160	0	438	2,134	2,109	2,098	21,732	1,100	5,936	4,300	256	44	31	10,480	11,080	10,152	12,638	13,601	46.9%	49.2%	34.4%
9-Mar-03	18,601	159	0	431	2,212	2,137	2,114	21,403	1,100	4,921	4,318	256	44	32	9,482	10,372	10,821	11,608	13,292	43.0%	47.4%	33.8%
10-Mar-03	17,972	158	0	425	2,244	2,157	2,128	20,799	1,100	5,182	4,279	251	0	33	9,745	9,646	9,954	10,832	12,958	45.5%	45.1%	33.2%
11-Mar-03	17,221	158	0	424	2,256	2,166	2,135	20,059	1,150	4,273	4,365	255	0	35	8,928	9,113	9,981	10,352	12,688	43.1%	43.8%	33.1%
12-Mar-03	16,671	157	0	419	2,198	2,187	2,140	19,445	1,150	6,291	4,419	242	38	35	10,949	9,603	7,347	9,756	12,243	54.9%	47.7%	36.9%
13-Mar-03	16,294	157	0	417	2,199	2,217	2,150	19,067	1,200	6,014	4,402	255	44	36	10,663	9,921	7,204	9,251	11,855	54.4%	50.7%	40.1%
14-Mar-03	15,616	157	0	404	2,276	2,237	2,159	18,453	1,250	5,699	4,344	255	41	34	10,290	10,390	6,912	8,910	11,502	54.2%	54.5%	44.2%
15-Mar-03	15,929	157	0	411	2,272	2,275	2,181	18,769	565	5,391	4,305	254	40	32	9,942	10,052	8,261	8,640	11,286	51.4%	53.3%	44.6%
16-Mar-03	18,212	156	5,992	724	2,481	2,328	2,208	27,565	-4,405	4,995	4,288	189	0	26	9,497	9,674	22,474	10,305	11,985	33.7%	44.7%	43.4%
17-Mar-03	26,136	156	4,087	968	2,614	2,368	2,227	33,961	-5,040	6,687	4,349	236	60	34	11,247	10,005	27,754	12,848	12,913	32.3%	37.3%	44.0%
18-Mar-03	37,323	159	3,800	706	2,536	2,411	2,242	44,524	-5,040	6,443	4,368	254	34	31	11,061	10,376	38,503	16,922	14,335	24.2%	29.3%	43.1%
19-Mar-03	39,645	162	0	650	2,497	2,440	2,251	42,954	-4,990	6,638	4,352	254	26	38	11,255	10,945	36,689	21,114	15,511	25.5%	26.9%	43.1%
20-Mar-03	35,853	165	0	606	2,407	2,445	2,254	39,031	-4,534	6,587	4,328	253	29	32	11,171	10,905	32,394	24,713	16,355	27.9%	25.8%	41.2%
21-Mar-03	31,153	169	0	644	2,311	2,438	2,252	34,277	537	6,207	4,334	251	27	35	10,800	10,815	22,940	27,002	16,669	30.7%	27.8%	39.5%
22-Mar-03	27,496	172	0	655	2,222	2,392	2,248	30,545	1,272	4,944	4,338	251	25	31	9,540	10,246	19,733	28,641	16,808	30.3%	29.5%	36.6%
23-Mar-03	24,879	175	0	603	2,160	2,332	2,246	27,817	1,272	6,214	4,341	252	27	28	10,808	10,126	15,737	27,679	16,761	37.8%	32.7%	35.6%
24-Mar-03	23,377	178	0	706	2,193	2,281	2,243	26,454	181	6,533	4,283	252	19	35	11,084	10,218	15,189	25,884	16,696	40.8%	36.1%	35.4%
25-Mar-03	21,970	178	0	893	2,175	2,223	2,237	25,216	409	6,067	4,442	249	5	36	10,788	10,627	14,019	22,386	16,589	41.7%	40.0%	36.4%
26-Mar-03	22,116	178	0	764	2,090	2,172	2,229	25,148	459	6,588	4,427	247	6	32	11,288	10,780	13,401	19,059	16,466	43.8%	42.1%	36.4%
27-Mar-03	21,674	178	0	681	2,051	2,127	2,221	24,584	459	6,457	4,429	259	0	37	11,181	10,803	12,944	16,280	16,336	44.3%	43.2%	36.1%
28-Mar-03	20,736	178	0	845	1,998	2,092	2,212	23,757	509	6,333	4,423	251	0	37	11,044	10,886	12,204	14,747	16,188	45.3%	44.4%	35.9%
29-Mar-03	21,462	178	0	740	1,976	2,065	2,204	24,356	1,650	6,195	4,406	250	0	34	10,885	10,748	11,821	13,616	16,038	43.5%	44.4%	35.0%
30-Mar-03	22,852	178	0	669	1,970	2,032	2,196	25,669	1,650	6,197	4,387	252	0	36	10,872	10,647	13,147	13,246	15,941	41.2%	43.3%	34.8%
31-Mar-03	21,539	178	0	623	1,961	2,005	2,189	24,301	1,700	5,398	4,351	251	19	41	10,022	10,311	12,579	12,874	15,833	40.0%	41.6%	34.5%
Total	721,898	5,153	13,879	18,120	67,898	67,968	67,182	826,948	434	192,711	134,753	7,769	572	1,034	335,695	326,351	490,819	538,592	469,787	1283.3%	1260.1%	1116.4%
Average	23,287	166	448	585	2,190	2,193	2,167	26,676	14	6,216	4,347	251	18	33	10,829	10,527	15,833	17,374	15,833	41.4%	40.6%	36.0%

MARCH 2003

**CONSOLIDATED STATE-FEDERAL SAN LUIS RESERVOIR
DAILY OPERATIONS**

RUN DATE: April 21, 2003

DAY	ELEV	STORAGE		SAN LUIS PUMPING C.F.S.	RELEASE - C.F.S.			GAIN(+) OR LOSS(-) C.F.S.	EVAPORATION		PRECIP INCHES
		ACRE- FEET IN LAKE	CHANGE		POWER	PACHECO TUNNEL	SPILL		C.F.S.	INCHES	
		1,739,389									
1	520.02	1,743,246	+3,857	3,682	1,334	87	0	-318	55	.14	.00
2	521.02	1,755,318	+12,072	6,210	0	89	0	-35	35	.09	.00
3	521.46	1,760,638	+5,320	2,836	0	88	0	-66	66	.17	.00
4	522.28	1,770,569	+9,931	5,177	0	107	0	-63	63	.16	.00
5	523.16	1,781,248	+10,679	5,560	0	117	0	-59	59	.15	.00
6	524.05	1,792,071	+10,823	5,618	0	107	0	-55	55	.14	.00
7	524.73	1,800,355	+8,284	4,304	0	52	0	-75	75	.19	.00
8	525.15	1,805,479	+5,124	2,668	0	2	0	-83	83	.21	.00
9	526.05	1,816,474	+10,995	5,600	0	2	0	-55	55	.14	.00
10	526.38	1,820,512	+4,038	2,124	0	41	0	-47	47	.12	.00
11	526.83	1,826,023	+5,511	2,966	0	137	0	-51	51	.13	.00
12	527.20	1,830,558	+4,535	2,432	0	86	0	-59	59	.15	.00
13	527.48	1,833,993	+3,435	1,971	0	160	0	-79	79	.20	.00
14	527.83	1,838,289	+4,296	2,389	0	144	0	-79	79	.20	.00
15	528.08	1,841,361	+3,072	2,542	1,015	138	0	+159	119	.30	.00
16	528.94	1,851,939	+10,578	5,539	0	118	0	-88	88	.22	.00
17	529.23	1,855,511	+3,572	1,970	0	138	0	-32	32	.08	.12
18	530.19	1,867,352	+11,841	6,205	0	140	0	-96	96	.24	.00
19	531.06	1,878,105	+10,753	5,638	0	136	0	-80	80	.20	.00
20	531.57	1,884,419	+6,314	3,417	0	145	0	-88	88	.22	.00
21	532.14	1,891,484	+7,065	3,798	0	156	0	-80	80	.20	.00
22	532.98	1,901,912	+10,428	5,475	0	157	0	-60	60	.15	.00
23	534.07	1,915,474	+13,562	7,073	0	146	0	-89	89	.22	.00
24	534.92	1,926,073	+10,599	5,538	0	150	0	-44	44	.00	.00
25	535.70	1,935,817	+9,744	5,184	0	163	0	-109	109	.27	.00
26	536.40	1,944,576	+8,759	4,655	0	166	0	-73	73	.18	.00
27	536.87	1,950,465	+5,889	3,231	0	152	0	-110	110	.27	.00
28	537.17	1,954,227	+3,762	2,245	0	194	0	-154	154	.38	.00
29	537.02	1,952,346	-1,881	1,633	2,275	189	0	-118	118	.29	.00
30	537.25	1,955,231	+2,885	2,606	1,053	194	0	+96	81	.20	.00
31	537.14	1,953,851	-1,380	1,609	1,583	231	0	-491	114	.28	.00
TOTALS			+214,462	121,895	7,260	3,932	0	-2,581	2,396	5.89	.12
ACRE-FEET			+214,462	241,779	14,400	7,799	0	-5,119	4,752		

SUMMARY

RELEASE (ACRE-FEET)		PRECIPITATION	
POWER	14,400	SPILL	0
PACHECO TUNNEL	7,799	TOTAL	22,199
		THIS MONTH =	.12
		JULY 1, 2002 TO DATE =	7.20

MARCH 2003

**CONSOLIDATED STATE-FEDERAL O'NEILL FOREBAY
DAILY OPERATIONS**

RUN DATE: April 21, 2003

DAY	ELEV	STORAGE		INFLOW - C.F.S.			RELEASE - C.F.S.			* DELIV.	GAINS(+) OR LOSS(-) C.F.S.
		ACRE-FEET IN LAKE	CHANGE	O'NEILL PUMPING	S. LUIS GEN.	CALIF. AQUEDUCT	O'NEILL GEN.	S. LUIS PUMPING	DOS AMIGOS PUMPING		
		44,818									
1	223.20	51,580	+6,762	2,132	1,334	6,704	0	3,682	4,138		+1,060
2	221.07	45,944	-5,636	2,240	0	6,573	0	6,210	5,776		+330
3	223.11	51,340	+5,396	2,293	0	6,181	0	2,836	3,387		+469
4	223.35	51,982	+642	2,331	0	6,663	0	5,177	3,727		+233
5	223.24	51,687	-295	2,239	0	7,066	0	5,560	4,120		+226
6	222.50	49,713	-1,974	2,141	0	6,837	0	5,618	4,574		+218
7	222.49	49,687	-26	2,099	0	6,457	0	4,304	4,379		+113
8	222.70	50,246	+559	2,202	0	5,435	0	2,668	4,940		+252
9	219.20	41,093	-9,153	2,386	0	4,650	0	5,600	6,307		+257
10	219.80	42,635	+1,542	2,413	0	4,586	0	2,124	4,147		+49
11	219.30	41,349	-1,286	2,497	0	3,923	0	2,966	4,438		+336
12	219.20	41,093	-256	2,609	0	5,263	0	2,432	5,705		+136
13	220.28	43,879	+2,786	2,777	0	5,397	0	1,971	5,008		+210
14	220.77	45,158	+1,279	3,014	0	5,085	0	2,389	5,219		+154
15	222.55	49,847	+4,689	3,260	1,015	4,920	0	2,542	4,722		+434
16	221.21	46,311	-3,536	3,302	0	4,735	0	5,539	4,268		-13
17	223.15	51,447	+5,136	3,113	0	5,391	0	1,970	4,020		+76
18	222.81	50,539	-908	3,066	0	6,033	0	6,205	3,586		+234
19	222.49	49,687	-852	3,040	0	5,829	0	5,638	4,025		+365
20	222.87	50,699	+1,012	2,982	0	5,520	0	3,417	4,745		+170
21	223.55	52,518	+1,819	2,914	0	5,840	0	3,798	4,242		+203
22	223.08	51,260	-1,258	2,918	0	4,202	0	5,475	2,508		+228
23	221.96	48,282	-2,978	2,943	0	5,805	0	7,073	3,767		+591
24	222.30	49,182	+900	2,928	0	6,341	0	5,538	3,287		+10
25	222.33	49,261	+79	2,811	0	5,931	0	5,184	3,694		+177
26	221.80	47,861	-1,400	2,810	0	5,825	0	4,655	4,823		+137
27	221.10	46,023	-1,838	2,849	0	5,265	0	3,231	5,998		+189
28	220.40	44,192	-1,831	2,858	0	6,392	0	2,245	7,956		+28
29	220.00	43,152	-1,040	2,961	2,275	5,882	0	1,633	10,392		+383
30	218.81	40,103	-3,049	3,001	1,053	5,917	0	2,606	8,995		+92
31	218.32	38,870	-1,233	3,067	1,583	4,775	0	1,609	8,552		+114
TOTALS			-5,948	84,196	7,260	175,423	0	121,895	155,445		+7,461
ACRE-FEET			-5,948	167,003	14,400	347,952	0	241,779	308,325	0	14,799

* DAILY DEL. FIGURES UNAVAILABLE. TOT. DEL. IS INCLUDED IN COMPUTING MONTHLY TOTALS

SUMMARY
RELEASE (ACRE-FEET)

O'NEILL GEN.	0	DOS AMIGOS PUMP	308,325
SAN LUIS PUMP	241,779	DELIVERIES	0
		TOTAL	550,104

UNITED STATES DEPARTMENT OF THE INTERIOR
 U.S. BUREAU OF RECLAMATION-CENTRAL VALLEY PROJECT-CALIFORNIA

Table 19

MARCH 2003

FEDERAL-STATE OPERATIONS
 SAN LUIS UNIT

RUN DATE: April 21, 2003

DAY	AQUEDUCT CHECK 12			O'NEILL			SAN LUIS			SAN LUIS			PACHECO PUMP	DOS AMIGOS			
	STATE	FED	TOTAL	FED	STATE	GENER TOTAL	FED	STATE	TOTAL	FED	STATE	TOTAL		FED	STATE	TOTAL	
1	13,297	0	13,297	4,229	0	4,229	0	2,727	4,577	7,304	0	2,645	2,645	172	2,831	5,377	8,208
2	13,038	0	13,038	4,444	0	4,444	0	9,594	2,723	12,317	0	0	0	176	2,892	8,564	11,456
3	12,261	0	12,261	4,549	0	4,549	0	3,349	2,277	5,626	0	0	0	175	2,851	3,867	6,718
4	13,217	0	13,217	4,623	0	4,623	0	3,537	6,732	10,269	0	0	0	213	2,874	4,518	7,392
5	14,015	0	14,015	4,442	0	4,442	0	3,578	7,450	11,028	0	0	0	232	2,555	5,618	8,173
6	13,562	0	13,562	4,247	0	4,247	0	3,680	7,464	11,144	0	0	0	212	2,552	6,520	9,072
7	12,807	0	12,807	4,164	0	4,164	0	3,374	5,162	8,536	0	0	0	103	2,580	6,105	8,685
8	10,781	0	10,781	4,368	0	4,368	0	3,452	1,840	5,292	0	0	0	3	2,600	7,198	9,798
9	9,223	0	9,223	4,732	0	4,732	0	11,173	-65	11,108	0	0	0	4	2,523	9,987	12,510
10	9,096	0	9,096	4,786	0	4,786	0	3,767	446	4,213	0	0	0	82	2,495	5,730	8,225
11	7,781	0	7,781	4,952	0	4,952	0	4,122	1,761	5,883	0	0	0	271	2,585	6,217	8,802
12	10,439	0	10,439	5,174	0	5,174	0	4,564	259	4,823	0	0	0	171	2,470	8,845	11,315
13	10,704	0	10,704	5,508	0	5,508	0	3,905	4	3,909	0	0	0	317	2,499	7,435	9,934
14	10,086	0	10,086	5,978	0	5,978	0	4,650	89	4,739	0	0	0	286	2,520	7,832	10,352
15	9,759	0	9,759	6,466	0	6,466	0	5,019	24	5,043	0	2,013	2,013	274	2,523	6,843	9,366
16	9,392	0	9,392	6,549	0	6,549	0	10,107	880	10,987	0	0	0	234	2,451	6,014	8,465
17	10,693	0	10,693	6,175	0	6,175	0	3,490	418	3,908	0	0	0	273	2,537	5,437	7,974
18	11,967	0	11,967	6,081	0	6,081	0	3,762	8,546	12,308	0	0	0	277	2,575	4,537	7,112
19	11,561	0	11,561	6,030	0	6,030	0	3,213	7,969	11,182	0	0	0	270	2,578	5,406	7,984
20	10,948	0	10,948	5,915	0	5,915	0	3,798	2,979	6,777	0	0	0	288	2,001	7,411	9,412
21	11,584	0	11,584	5,779	0	5,779	0	3,190	4,343	7,533	0	0	0	309	2,025	6,389	8,414
22	8,335	0	8,335	5,788	0	5,788	0	3,449	7,410	10,859	0	0	0	312	2,030	2,944	4,974
23	11,514	0	11,514	5,837	0	5,837	0	7,223	6,806	14,029	0	0	0	290	2,012	5,460	7,472
24	12,577	0	12,577	5,807	0	5,807	0	3,271	7,713	10,984	0	0	0	298	2,008	4,512	6,520
25	11,764	0	11,764	5,575	0	5,575	0	2,813	7,470	10,283	0	0	0	323	2,012	5,316	7,328
26	11,554	0	11,554	5,574	0	5,574	0	2,709	6,524	9,233	0	0	0	329	2,837	6,730	9,567
27	10,443	0	10,443	5,650	0	5,650	0	2,386	4,023	6,409	0	0	0	302	2,816	9,081	11,897
28	12,678	0	12,678	5,668	0	5,668	0	2,352	2,100	4,452	0	0	0	385	2,801	12,980	15,781
29	11,667	0	11,667	5,874	0	5,874	0	3,195	45	3,240	0	4,512	4,512	375	2,808	17,804	20,612
30	11,737	0	11,737	5,952	0	5,952	0	5,120	49	5,169	0	2,089	2,089	385	2,763	15,078	17,841
31	9,472	0	9,472	6,084	0	6,084	0	3,224	-33	3,191	0	3,139	3,139	458	2,816	14,147	16,963
TOTAL	347,952	0	347,952	167,000	0	167,000	0	241,778	14,398	256,176	0	14,398	14,398	7,799	308,322	78,420	386,742
FEDERAL	0	0	0	167,000	0	167,000	0	133,793	0	133,793	0	0	0	0	229,902	78,420	308,322
STATE	347,952	0	347,952	0	0	0	0	107,985	14,398	122,383	0	14,398	14,398	7,799	78,420	0	86,219
															XVC	0	0

COMMENTS: ALL VALUES IN ACRE-FEET

UNITED STATES DEPARTMENT OF THE INTERIOR
 U.S. BUREAU OF RECLAMATION-CENTRAL VALLEY PROJECT-CALIFORNIA

Table 20

MARCH 2003

FEDERAL-STATE OPERATIONS

RUN DATE: April 21, 2003

DAY	TRACY PUMPING			CLIFT COURT TOTAL	DELTA PUMPING PLANT			FED BANKS XVC	STATE		BYRON BETHANY TOTAL	AQEDUCT CHECK 21		DMC-POOL DEMANDS
	FED	STATE	TOTAL		STATE	FED	TOTAL		AMIGOS XVC	DOS XVC		STATE	FED	
1	8,619	0	8,619	14,397	15,065	0	15,065	0	0	0	6,383	0	6,383	4,390
2	8,517	0	8,517	13,959	14,260	0	14,260	0	0	0	8,415	0	8,415	4,073
3	8,550	0	8,550	14,387	14,258	0	14,258	0	0	0	4,811	0	4,811	4,001
4	8,568	0	8,568	14,334	14,334	0	14,334	0	0	0	5,727	0	5,727	3,945
5	8,544	0	8,544	14,559	14,236	0	14,236	0	0	0	6,329	0	6,329	4,102
6	8,532	0	8,532	14,006	14,307	0	14,307	0	0	0	6,247	0	6,247	4,285
7	8,523	0	8,523	14,565	14,155	0	14,155	0	0	87	6,091	0	6,091	4,359
8	8,529	0	8,529	11,775	11,731	0	11,731	0	0	87	7,275	0	7,275	4,161
9	8,564	0	8,564	9,761	10,794	0	10,794	0	0	87	9,905	0	9,905	3,832
10	8,488	0	8,488	10,279	10,623	0	10,623	0	0	0	6,329	0	6,329	3,702
11	8,657	0	8,657	8,475	8,475	0	8,475	0	0	0	6,596	0	6,596	3,705
12	8,765	0	8,765	12,478	12,102	0	12,102	0	0	75	7,023	0	7,023	3,591
13	8,732	0	8,732	11,929	11,820	0	11,820	0	0	88	7,735	0	7,735	3,224
14	8,616	0	8,616	11,304	11,028	0	11,028	0	0	82	7,897	0	7,897	2,638
15	8,539	0	8,539	10,694	10,463	0	10,463	0	0	80	7,803	0	7,803	2,073
16	8,505	0	8,505	9,907	9,606	0	9,606	0	0	0	9,635	0	9,635	1,956
17	8,626	0	8,626	13,264	12,843	0	12,843	0	0	119	5,742	0	5,742	2,451
18	8,663	0	8,663	12,779	13,164	0	13,164	0	0	68	6,742	0	6,742	2,582
19	8,632	0	8,632	13,166	12,921	0	12,921	0	0	51	6,170	0	6,170	2,602
20	8,585	0	8,585	13,066	12,836	0	12,836	0	0	57	7,014	0	7,014	2,670
21	8,596	0	8,596	12,311	12,215	0	12,215	0	0	53	6,056	0	6,056	2,817
22	8,605	0	8,605	9,807	10,037	0	10,037	0	0	50	1,246	0	1,246	2,817
23	8,610	0	8,610	12,325	13,392	0	13,392	0	0	53	5,672	0	5,672	2,773
24	8,495	0	8,495	12,959	12,922	0	12,922	0	0	37	4,067	0	4,067	2,688
25	8,811	0	8,811	12,033	12,926	0	12,926	0	0	10	5,303	0	5,303	3,236
26	8,781	0	8,781	13,068	12,884	0	12,884	0	0	12	6,467	0	6,467	3,207
27	8,784	0	8,784	12,808	12,980	0	12,980	0	0	0	9,915	0	9,915	3,134
28	8,774	0	8,774	12,562	12,841	0	12,841	0	0	0	13,513	0	13,513	3,106
29	8,739	0	8,739	12,287	11,986	0	11,986	0	0	0	16,917	0	16,917	2,865
30	8,702	0	8,702	12,292	12,851	0	12,851	0	0	0	17,017	0	17,017	2,750
31	8,631	0	8,631	10,706	10,474	0	10,474	0	0	38	15,591	0	15,591	2,547
TOTALS	267,282	0	267,282	382,242	384,529	0	384,529	0	0	1,134	241,633	0	241,633	100,282

COMMENTS: ALL VALUES IN ACRE-FEET

TOTAL TRACY: 03/24/03 - 3,000 af of EWA Water is included in the 8,495 af Pumped at Tracy.

TOTAL TRACY: 03/25/03 - 3,000 af of EWA Water is included in the 8,811 af Pumped at Tracy.

TOTAL TRACY: 03/31/03 - EWA Summary: 2002 Jul 43,824 af, Aug 21,699 af, Sep 258 af, Oct & Nov 0, Dec 497, 2003 Jan & Feb 0, Mar 6,000 af.

Total EWA Water pumped Jul 2002 thru Mar 2003 equals 72,278 af.

Table 22

U. S. Department of Interior - Bureau of Reclamation
Central Valley Operations Office

**Friant-Kern Canal
2003**

Monthly Deliveries in AF

Water User	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Alpaugh ID	0	0	0										0
Arvin-Edison WSD	1707	2374	0										4081
Atwell Island WD	0	0	0										0
Delano-Earlimart ID	0	2960	3771										6731
Exeter ID	0	10	79										89
City of Fresno	0	837	4										841
County of Fresno SA #34	4	3	20										27
Fresno ID	0	0	0										0
Garfield WD	0	0	0										0
Hills Valley ID	0	0	17										17
International WD	25	53	0										78
Ivanhoe ID	0	0	0										0
Kaweah Delta WCD	0	0	0										0
Kern County Water Agency	0	0	0										0
Kern-Tulare WD	0	0	1474										1474
Lewis Creek WD	0	0	0										0
Lindmore ID	0	0	129										129
City of Lindsay	0	45	168										213
Lindsay-Strathmore ID	5	117	202										324
Lower Tule River ID	0	0	0										0
North-Kern WSD	0	0	0										0
City of Orange Cove	70	71	86										227
Orange Cove ID	0	0	75										75
Pixley ID	0	0	0										0
Porterville ID	0	0	0										0
Rag Gulch WD	0	320	925										1245
Rosedale Rio Bravo WSD	0	0	0										0
Saucelito ID	0	321	1840										2161
Semitropic WSD	0	0	0										0
Shafter Wasco ID	541	5629	3670										9840
Southern San Joaquin MUD	0	5260	5151										10411
Smallwood Vineyards	0	0	33										33
Stone Corral ID	0	0	9										9
Strathmore PUD	0	19	19										38
Styro Tek, Inc.	0	0	1										1
Tea Pot Dome WD	0	0	0										0
Terra Bella ID	0	0	125										125
Tri-Valley WD	0	0	0										0
Tulare ID	0	2692	0										2692
Total	2352	20711	17798	0	0	0	0	0	0	0	0	0	40861

* Data supplied by Fresno Field Division, Contracts Administration Division

Table 23

U. S. Department of Interior - Bureau of Reclamation
 Central Valley Operations Office

**Madera Canal and Millerton Lake
 2003**

Monthly Deliveries in AF

Water Users	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
MADERA CANAL													
Chowchilla WD	0	0	0										0
Madera ID	0	0	0										0
Soquel	0	0	0										0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0
MILLERTON LAKE													
County of Madera	1	2	3										6
Fresno County # 18	5	5	7										17
Gravelly Ford WD	0	2	345										347
Total	6	9	355	0	0	0	0	0	0	0	0	0	370

* Data supplied by Fresno Field Division, Contracts Administration Division

Table 25

U. S. Department of Interior - Bureau of Reclamation
 Central Valley Operations Office

Monthly Deliveries in AF

Delta-Mendota Canal
2003

Water User	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Banta Carbona ID	0	0	0										0
Broadview WD	1013	1646	930										3589
CCID (Abv CK 13)	240	139	1108										1487
CCID (Blw CK 13)	0	1347	4429										5776
Centinella WD	0	0	0										0
China Island (76.05)	0	1043	833										1876
Del Puerto WD	151	1735	3527										5413
DWR Intertie @MP7.70-R	0	0	0										0
Eagle Field WD	59	425	142										626
Firebaugh Canal	2202	5784	1170										9156
Frietas Unit (76.05L)	0	1078	1258										2336
Mercy Springs WD	0	156	57										213
Oro Loma WD	0	281	0										281
Panoche WD - Ag	422	660	351										1433
Panoche WD - M&I	2	3	2										7
Patterson WD	0	209	354										563
Plainview WD	19	48	211										278
Salt Slough Unit (76.05L)	0	926	992										1918
San Luis WD - Ag	38	1841	812										2691
San Luis WD - M&I	1	1	3										5
Tracy, City of	104	361	571										1036
West Side ID	0	0	0										0
Widren	0	54	0										54
W. Stanislaus ID	0	556	1600										2156
F&G - Los Banos Ref. 76.05L	0	1068	1168										2236
Volta Wildlife Mgmt Area (F&G)	109	17	127										253
Grasslands WD -76.05L	5851	3441	1085										10377
Grasslands WD - Volta	1286	1253	1139										3678
F&S (Volta) Santa Fee Kest.	0	0	0										0
F&S - Kesterson 76.05L	0	665	819										1484
Total DMC Deliveries	11497	24737	22688	0	0	0	0	0	0	0	0	0	58922
Oneill Net Pumped	222449	122252	167000										511701
DMC plus Oneill	233946	146989	189688	0	0	0	0	0	0	0	0	0	570623

* Data supplied by San Luis Delta-Mendota Water Authority

Table 26

U. S. Department of Interior - Bureau of Reclamation
Central Valley Operations Office

San Luis and Cross Valley Canals
2003

Monthly Deliveries in AF

Water User	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
SAN LUIS CANAL													
City of Avenal	183	166	190										356
Broadview WD	4	1	0										1
City of Coalinga	310	423	197										620
City of Dos Palos	62	68	78										146
City of Huron	43	50	64										114
Pacheco WD	225	399	179										578
Pacheco CCID Non-project (Hamburg)	457	984	537										1978
Panoche WD	3032	6457	3102										12591
San Luis WD	1677	5012	4798										11487
Westlands WD (Federal)	54952	72952	62666										190570
Phase I (Non-chargeable)	1	5	0										6
Fish & Game (Lateral 4)	1	0	1										2
Fish & Game (Lateral 6)	0	0	0										0
Total	60947	86517	71812	0	0	0	0	0	0	0	0	0	219276
O'NEILL FOREBAY DELIVERIES													
Oneill Forebay Wildlife	40	25	69										134
San Luis WD Ag	32	690	582										1304
San Luis M&I	37	32	21										90
VA Cemetary	1	4	3										8
Total	110	751	675	0	0	0	0	0	0	0	0	0	1536
CROSS VALLEY CANAL													
Arvin Edison WSD	0	0	0										0
Kern-Tulare	0	0	0										0
Pixley ID	0	0	0										0
Rag Gulch	0	0	0										0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0
SAN FELIPE DIVISION													
Santa Clara	3970	1985	6652										12607
San Benito	254	1407	623										2284
Total	4224	3392	7275	0	0	0	0	0	0	0	0	0	14891

* Data supplied by Fresno Field Division, Contracts Administration Division for San Luis Canal and Cross Valley Canal.
Tracy Field Division, Water Division for O'Neill Forebay.

Table 27

U. S. Department of Interior - Bureau of Reclamation
 Central Valley Operations Office

**Tehama-Colusa Canal
 2003**

Monthly Deliveries in AF

Water Users	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Colusa County WD	73	120	1053										1246
Cortina WD	0	0	0										0
Davis WD	0	2	17										19
Dunnigan WD	8	22	133										163
4-M Water District	0	3	7										10
GCID	0	43	960										1003
Glenn Valley WD	0	0	0										0
Glide WD	0	8	0										8
Holthouse WD	0	7	24										31
Kanawha WD	3	27	146										176
Kirkwood WD	0	0	0										0
La Grande WD	0	0	0										0
Myers-Marsh MWC	0	0	25										25
Orland-Artois WD	14	120	29										163
Westside WD	0	40	453										493
Total	98	392	2847	0	0	0	0	0	0	0	0	0	3337

Data supplied by Willows Field Division, Water and Land Division

Table 28

U. S. Department of Interior - Bureau of Reclamation
Central Valley Operations Office

Monthly Deliveries in AF

Sacramento River

2003

Water Users	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
A&F Boeger Corp & Thunder Farms	0	0	0										0
Anderson Cottonwood ID	0	0	0										0
Andreotti, Arthur, et al	0	0	0										0
Baber, Jack, et	0	0	0										0
A&R Farms (Odysseus)	0	0	0										0
Cannel, Fred	0	0	0										0
Carter, Jane	0	0	0										0
Colusa Prop. Inc	0	0	0										0
Conaway Conservancy Group	0	0	0										0
Davis, Olive P, et al	0	0	0										0
Deseret Farms of Calif	0	0	0										0
Dommer, Elizabeth	0	0	0										0
Forry, David G, et al	0	0	0										0
Forster, Rosemary	0	0	0										0
Furlan Joint Venture (Area #1)	0	0	0										0
Furlan Joint Venture (Area #2)	0	0	0										0
Glenn-Colusa ID	0	0	0										0
Griffin, J, et al	0	0	0										0
Henle Family Limited Partnership	0	0	0										0
Hershey Land Co	0	0	0										0
Hiatt, Glenn	0	0	0										0
Hollins, Mariette B	0	0	0										0
Howald Farms	0	0	0										0
King, Barbara	0	0	0										0
Knaggs Walnut Ranches Co, L.P.	0	0	0										0
Lockett, William P.	0	0	0										0
Loma Cold Storage/J Micheli	0	0	0										0
M&T Inc.	0	0	0										0
MCM Properties, Inc	0	0	0										0
Maxwell ID	0	0	0										0
Meridan Farms WC	0	0	0										0
Natomas Central MWC	0	0	0										0
O'Brien, Janice	0	0	0										0
Oji Bros. Farms Inc	0	0	0										0
Oji, Mitsue Family PTN	0	0	0										0
Pelger Mutual WC	0	0	0										0
Pleasant Grove-Verona MWC	0	0	0										0
Princeton,-Codora-Glenn ID	0	0	0										0
Provident Irrigation District	0	0	0										0
Reclamation Dist #108	0	0	0										0
Reclamation Dist #1004	0	0	0										0
Reynen, John, et al	0	0	0										0
River Garden Farms	0	0	0										0
Roberts Ditch Irrigation Co	0	0	0										0
Sartain Mutual WC	0	0	0										0
Siddiqui, J & A & Siddiqui Family Plan	0	0	0										0
Spence, Ruth Ann	0	0	0										0
Sutter Mutual WC	0	0	0										0
Swinford Tract Irrigation Co	0	0	0										0
Tarke, James, et al	0	0	0										0
Tisdale Irrigation & Drain	0	0	0										0
Wallace Construction, Inc.	0	0	0										0
Wells, Joyce M	0	0	0										0
Wilson Ranch Partnership	0	0	0										0
Windswept Land & Livestock Co.	0	0	0										0
Total	0	0	0										0

* Data supplied by Willows Field Division, Water and Land Division (long-form contracts only)

U. S. Department of the Interior - Bureau of Reclamation
 Central Valley Operations Office

**Sacramento-San Joaquin Valley - Streamflow Data
 2003**

Mean monthly flow in cfs

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Sacramento River												
Shasta computed inflow	17179	8836	11080									
At Keswick	13500	9498	4232									
At Bend Bridge	25382	13674	12271									
At Vina Bridge	38278	17020	11719									
At Ord Ferry	35335	15687	12185									
At Colusa	30523	17735	12519									
Below Wilkins Slough	24623	17618	12638									
At Verona	46013	29817	20277									
Sacramento at "I" Street	49929	33707	22335									
Miscellaneous Stations												
Folsom computed inflow	3942	3227	3683									
American R at Nimbus Dam	2626	4300	2019									
Kings River at Pine Flat	111	94	401									
San Joaquin River												
At Friant Dam	104	103	114									
Near Vernalis	2211	2198	2191									
Putah Creek												
Berryessa computed inflow	1328	564	736									
Putah Creek - Lake Solano	26	195	337									
Stanislaus River												
New Melones computed inflow	1068	962	1143									
At Tulloch Dam	305	533	1123									
At Orange Blossom	212	539	454									

* Data supplied by Central Valley Operations Coordinations Office
 Daily mean is derived from 7 am daily reading.

Precipitation Summary

Table 30

STATION	Month	Actual	Mean	Mean	Percent	Actual
	Mar 03	Jul 02 - Mar 03	Season	Season	of Jul-Jun	WY 03
				Total	Season	Total
				Jul 02 - Mar 03	TOTAL	Oct 02 - Mar 03
Alturas	1.76	5.77	1.38	12.48	46	5.64
Auberry	1.49	15.08	4.22	25.15	60	15.08
Auburn	3.89	22.88	5.49	33.66	68	22.88
Bakersfield	0.37	4.60	1.08	6.12	75	4.60
Blue Canyon	6.74	40.25	9.29	64.24	63	40.19
Cachuma	2.40	15.39	3.96	20.74	74	15.25
Calaveras Big Trees	4.45	31.45	8.39	54.99	57	31.45
Callahan	3.51	23.12	2.15	21.51	107	22.79
Colfax	6.02	33.70	7.03	47.47	71	33.32
Crane Valley	3.00	21.90	6.52	40.31	54	21.90
East Park	1.79	17.81	2.27	17.92	99	17.81
Folsom	2.07	14.39	3.82	24.64	58	14.39
Ft. Jones	3.23	24.84	2.11	21.69	115	24.22
Fresno	0.64	6.34	16.20	10.24	62	6.34
Friant Dam	0.88	8.20	2.53	14.40	57	8.20
Hetch Hetchy	2.87	21.67	5.24	35.93	60	21.41
Huntington	2.41	28.69	6.89	43.14	67	28.58
Georgetown	5.24	30.52	8.08	54.14	56	30.52
Lake Spaulding	7.53	54.24	9.93	69.73	78	54.16
Markley Cove (Berryessa)	3.04	26.90	3.23	25.53	105	26.90
McCloud	6.18	41.55	5.88	49.51	84	41.48
Mt. Shasta	5.40	43.78	5.06	38.51	114	42.83
New Melones	1.85	18.61	4.43	26.70	70	18.61
Pacific House	4.23	29.12	7.55	5.12	569	29.12
Placerville	3.68	22.29	5.85	38.85	57	22.29
Sacramento	1.95	12.34	2.67	18.42	67	12.01
Salt Springs	3.53	29.32	6.68	45.51	64	29.32
San Luis	0.12	6.76	1.25	9.81	69	6.76
Shasta Dam	7.37	59.37	8.80	61.59	96	59.33
Soda Springs	5.55	43.12	8.28	58.99	73	42.77
Sly Park	4.19	28.80	7.52	49.66	58	28.75
Stony Gorge	1.60	19.08	2.36	18.59	103	19.06
Susanville Airport	2.55	16.13	2.26	18.10	89	16.13
Tiger Creek	3.39	27.50	6.97	46.84	59	27.50
Trinity River Hatchery	3.25	29.01	4.56	34.21	85	28.95
Twin Lakes	1.66	21.16	6.81	47.56	44	20.68
Weaverville Ranger St.	4.91	36.69	4.74	38.52	95	36.44
Whiskeytown Dam	6.90	58.66	9.71	62.17	94	58.66
Yosemite Valley Hdqts.	2.83	28.29	5.42	36.88	77	27.13
Klamath Experiment St.	1.10	7.28	1.07	13.02	56	7.26

Data supplied by various agencies.