

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

CENTRAL VALLEY OPERATIONS OFFICE

REPORT OF OPERATIONS



April 2003

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SUMMARY OF APRIL 2003 OPERATIONS

Sacramento had an average monthly temperature of 56.1 °F which was 5.6 °F below normal. The average temperature at Shasta Dam was 51.0 °F which was 6.9 °F below normal and Huntington Lake was 12.7 °F below normal with an average temperature of 27.6 °F.

Trinity System: Storage in Trinity Lake increased 179,600 acre-feet this month to 2,215,900 acre-feet, which is 91 percent of capacity and 117 percent of the 15 year average for this date. The total inflow for the month was 230,990 acre-feet. The Trinity River release ranged between 300 to 1,000 ft³/s. Whiskeytown Lake was operated between elevations 1198.94 feet and 1212.06 feet with an end-of-month storage of 247,800 acre-feet. The releases to Clear Creek from Whiskeytown Dam were 200 ft³/s. Total Whiskeytown Dam spill was 4,452 ft³/s. Total diversion from the Trinity River to the Sacramento River watershed for the month was 35,784 acre-feet.

Shasta-Keswick: Storage in Shasta Lake increased 433,100 acre-feet for an end-of-month storage of 4,536,600 acre-feet, which is 99 percent of capacity and 120 percent of the 15 year average. The total inflow for the month was 811,747 acre-feet. The release to the Sacramento River at Keswick ranged between 3,500 and 30,000 ft³/s for the month.

Folsom-Nimbus: Storage in Folsom Lake increased 210,800 acre-feet and had an end-of-month storage of 830,600 acre-feet, which is 85 percent of capacity and 117 percent of the 15 year average for this date. The total inflow for the month was 348,136 acre-feet. The release to the American River at Nimbus ranged between 1,800 and 5,000 ft³/s during the month.

New Melones: Storage in New Melones increased 2,000 acre-feet for an end-of-month storage of 1,427,200 acre-feet or 59 percent of capacity and 108 percent of the 15 year average. The release to the Stanislaus River at Goodwin Dam ranged between 600 to 1,500 ft³/s for the month. The total inflow for the month was 101,726 acre-feet.

Delta-San Luis: Federal storage in San Luis Reservoir on April 30, 2003, was 898,000 acre-feet compared to the storage a year ago of 871,000 acre-feet.

Friant: Storage in Millerton Lake increased 36,845 acre-feet to 501,600 acre-feet. The total monthly inflow was 136,530 acre-feet. The release to the San Joaquin River at Friant varied between 141 and 148 ft³/s.

CVP Totals: The total diversions to CVP canals were 232,914 acre-feet. The April 30, 2003, storage in the 18 CVP reservoirs was 9,909,000 acre-feet compared to storage 1 year ago of 9,565,000 acre-feet.

Power: Gross power production for the CVP totaled 321,652,700 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	04/30/03	04/30/02	WATERSHED	RESERVOIR	TOTAL CAPACITY	04/30/03	04/30/02
KLAMATH	CLEAR LAKE *	526,800	139,850	188,850	AMERICAN	FOLSOM LAKE *CVP	1,010,300	860,610	759,130
	GERBER *	94,300	45,780	56,030		LAKE NATOMA *CVP	9,030	8,600	8,420
	UPR KLAMATH LK *	873,300	480,620	465,120	COSUMNES	JENKINSON LK *CVP	41,000	41,300	41,150
TRINITY	CLAIR ENGLE LK*CVP	2,447,700	2,215,950	2,049,390	MOKELUMNE	CAMANCHE	431,500	312,130	295,890
	LEWISTON LAKE*CVP	14,660	13,810	14,150		PARDEE	210,000	189,180	174,200
	WHISKEYTOWN *CVP	241,100	247,760	239,820	SALT SPRINGS	140,000	50,190	54,300	
MCCLOUD	MCCLOUD DIV. RES	35,230	28,250	24,610	CALAVERAS	NEW HOGAN	317,100	158,310	180,230
PIT	IRON CANYON	24,240	8,510	9,800		NEW MELONES*CVP	2,420,000	1,427,230	1,588,920
	LAKE BRITTON	40,620	39,060	33,610		BEARDSLEY	97,800	52,670	55,130
	PIT NO. 6	15,890	15,170	14,630	STANISLAUS	DONNELLS	64,320	6,980	21,090
	PIT NO. 7	34,610	33,677	32,120	TULLOCH	67,000	60,830	62,050	
SACRAMENTO	SHASTA LAKE *CVP	4,552,000	4,536,620	4,296,720	TUOLUMNE	LAKE ELEANOR	26,100	9,660	21,960
	SPRING CREEK *CVP	5,900	4,000	2,350		LAKE LLOYD	268,000	204,030	223,890
	KESWICK *CVP	23,800	21,150	23,080		HETCH-HETCHY	360,400	238,060	179,710
	RED BLUFF DIV *CVP	3,920	1,890	280	NEW DON PEDRO	2,030,000	1,509,050	1,538,170	
FEATHER	OROVILLE	3,538,000	3,073,440	2,659,100	TURLOCK LAKE	49,000	31,110	31,650	
	THERMALITO DIV RES	13,500	13,110	12,990	MERCED	EXCHEQUER	1,024,600	433,050	528,350
	THERMALITO FORE.	14,400	11,210	10,890	CHOWCHILLA	BUCHANAN	150,000	28,610	33,830
	THERMALITO AFTER.	57,000	44,490	27,500	CRANE VALLEY	45,400	41,010	40,850	
STONY CREEK	LAKE ALMANOR	1,143,000	918,440	839,110	LAKE T.A. EDISON	125,000	53,290	51,660	
	EAST PARK *	50,900	48,870	45,810	FLORENCE LAKE	64,600	1,270	11,050	
	STONY GORGE *	50,000	48,930	40,180	SAN JOAQUIN	MAMMOTH POOL	122,700	30,360	39,950
PUTAH CREEK	BLACK BUTTE *CVP	143,700	129,080	86,090	HUNTINGTON LAKE	89,800	57,100	79,040	
	LAKE BERRYESSA *	1,602,300	1,617,750	1,489,380	REDINGER LAKE	35,000	23,670	24,490	
	LAKE SOLANO *	720	670	670	SHAVER LAKE	135,400	84,530	97,050	
YUBA	BULLARDS BAR	930,000	892,840	811,940	MILLERTON LK *CVP	520,500	501,550	469,650	
	SO. YUBA SYSTEM	146,000	81,540	92,710	FRESNO	HIDDEN	90,000	29,770	34,130
	NARROWS	70,000	63,910	64,510	SAN LUIS **CVP	2,040,600	18,186,780	1,844,190	
BEAR	ROLLINS	65,990	65,990	65,990	O'NEILL FORE.**CVP	56,400	45,630	50,460	
LITTLE TRUCKEE	STAMPEDE *	226,620	128,200	144,500	SAN LUIS	L BANOS RES**CVP	34,560	20,490	20,530
	BOCA *	41,140	23,700	31,300	LT PANOCHE **CVP	5,580	810	830	
PROSSER	PROSSER CREEK *	29,840	14,300	14,000	OIL CANYON	CONTRA LOMA *CVP	2,100	2,090	2,090
TRUCKEE	LAKE TAHOE *	732,000	136,000	208,900	KINGS	WISHON	128,300	44,740	42,760
	RYE PATCH *	190,000	28,200	26,500	PINE FLAT	1,001,500	523,630	549,900	
HUMBOLDT					KAWEAH	TERMINUS	143,000	100,610	100,040
CARSON	LAHONTAN *	317,280	219,300	196,400	TULE	SUCCESS	82,300	52,870	42,050
	TWIN LAKES	21,600	15,510	18,760	KERN	ISABELLA	588,100	202,710	139,320
	FRENCH MEADOWS	136,400	91,310	87,370	CUYAMA	TWITCHHELL *	240,100	NA	NA
AMERICAN	HELL HOLE	207,590	172,540	118,490	SANTA YNEZ	LAKE CACHUMA *	190,500	126,760	160,950
	LOON LAKE	76,500	36,210	41,640	COYOTE	LAKE CASITAS *	254,000	195,750	216,150
	ICE HOUSE	46,000	29,460	32,380	TOTAL - 85 RESERVOIRS		33,790,040	41,939,987	24,682,390
	UNION VALLEY	277,300	219,660	235,730	TOTAL - 36 RESERVOIRS		18,992,650	31,520,030	14,781,990
	SLAB CREEK	16,600	36,210	13,780	TOTAL - 18 RESERVOIRS		13,572,850	28,265,350	11,497,250

** - 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

APRIL 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.	INCHES	PRECIP INCHES
		1000 ACRE-FEET IN LAKE	CHANGE		POWER	RIVER SPILL	OUTLET			
		4,103.7								
1	1,052.00	4,118.8	+15.1	9,569	1,801	0	0	173	.21	.00
2	1,052.61	4,135.9	+17.1	10,055	1,435	0	0	0	.00	.13
3	1,053.16	4,151.3	+15.4	9,340	1,525	0	0	33	.04	.10
4	1,053.86	4,171.0	+19.7	12,001	2,063	0	0	0	.00	.63
5	1,054.34	4,184.6	+13.6	8,661	1,766	0	0	58	.07	.03
6	1,054.90	4,200.4	+15.8	9,813	1,692	0	0	133	.16	.01
7	1,055.43	4,215.5	+15.1	9,217	1,603	0	0	25	.03	.00
8	1,055.89	4,228.6	+13.1	8,216	1,514	0	0	109	.13	.00
9	1,056.21	4,237.7	+9.1	7,405	2,696	0	0	109	.13	.00
10	1,056.56	4,247.7	+10.0	8,205	3,023	0	0	143	.17	.00
11	1,057.03	4,261.1	+13.4	9,884	2,990	0	0	126	.15	.00
12	1,057.74	4,281.5	+20.4	13,492	3,127	0	0	93	.11	.23
13	1,058.85	4,313.4	+32.0	19,113	2,999	0	0	0	.00	1.38
14	1,059.75	4,339.5	+26.0	15,567	2,437	0	0	0	.00	1.39
15	1,060.58	4,363.5	+24.0	14,436	2,281	0	0	43	.05	.00
16	1,061.31	4,384.7	+21.2	13,972	3,283	0	0	17	.02	.13
17	1,061.93	4,402.7	+18.0	12,303	3,148	0	0	69	.08	.31
18	1,062.40	4,416.4	+13.7	10,696	3,642	0	0	138	.16	.00
19	1,062.79	4,427.8	+11.4	10,764	4,875	0	0	147	.17	.00
20	1,063.18	4,439.2	+11.4	10,093	4,184	0	0	155	.18	.00
21	1,063.65	4,453.0	+13.8	11,047	4,035	0	0	61	.07	.57
22	1,064.01	4,463.6	+10.6	11,542	6,139	0	0	78	.09	.24
23	1,064.09	4,465.9	+2.4	9,554	8,271	0	0	95	.11	.00
24	1,064.26	4,470.9	+5.0	14,860	12,045	0	289	0	.00	.90
25	1,064.58	4,480.4	+9.4	17,473	12,666	0	0	52	.06	.38
26	1,064.67	4,483.0	+2.7	13,644	12,046	0	0	261	.30	.72
27	1,064.67	4,483.0	+0.0	13,374	13,348	0	0	26	.03	.01
28	1,065.94	4,520.6	+37.6	32,491	11,957	0	1,364	236	.27	.93
29	1,066.36	4,533.1	+12.5	32,898	13,014	0	13,206	385	.44	1.04
30	1,066.48	4,536.6	+3.6	29,565	13,573	0	14,192	0	.00	2.85
TOTALS			+433.1	409,250	159,178	0	29,051	2,765	3.23	11.98
ACRE-FEET			+433,100	811,747	315,730	0	57,623	5,484		

COMMENTS:

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

SUMMARY

	RELEASE (ACRE-FEET)			PRECIPITATION
POWER	315,730	OUTLET	57,623	THIS MONTH = 11.98
SPILL	0	TOTAL	373,353	JULY 1, 2002 TO DATE = 72.18

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

APRIL 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)	
		2,036.2								
1	2,343.72	2,040.6	+4.4	3,931	1,645	0	0	69	.16	.00
2	2,343.97	2,044.2	+3.7	3,552	1,631	0	0	73	.17	.03
3	2,344.17	2,047.2	+2.9	3,100	1,600	0	0	17	.04	.05
4	2,344.22	2,047.9	+0.7	3,101	2,713	0	0	17	.04	.45
5	2,344.23	2,048.1	+0.1	2,426	2,303	0	0	48	.11	.00
6	2,344.34	2,049.7	+1.6	2,178	1,314	0	0	48	.11	.01
7	2,344.34	2,049.7	+0.0	2,393	2,371	0	0	22	.05	.00
8	2,344.33	2,049.5	-0.1	2,454	2,467	0	0	61	.14	.00
9	2,344.48	2,051.8	+2.2	2,253	1,066	0	0	74	.17	.00
10	2,344.68	2,054.7	+2.9	2,592	1,034	0	0	74	.17	.00
11	2,344.99	2,059.3	+4.6	3,030	708	0	0	22	.05	.22
12	2,345.52	2,067.1	+7.8	4,396	399	0	0	48	.11	.36
13	2,346.16	2,076.6	+9.5	5,094	312	0	0	9	.02	.99
14	2,346.74	2,085.2	+8.6	4,722	366	0	0	17	.04	.63
15	2,347.26	2,092.9	+7.7	3,943	14	0	0	31	.07	.11
16	2,347.76	2,100.3	+7.4	4,154	381	0	0	18	.04	.08
17	2,348.18	2,106.6	+6.3	3,536	358	0	0	18	.04	.18
18	2,348.57	2,112.4	+5.8	3,294	287	0	0	66	.15	.00
19	2,348.95	2,118.1	+5.7	3,232	300	0	0	66	.15	.00
20	2,349.31	2,123.5	+5.4	3,105	302	0	0	79	.18	.00
21	2,349.76	2,130.3	+6.8	3,782	335	0	0	40	.09	.55
22	2,350.18	2,136.6	+6.3	3,565	358	0	0	22	.05	.47
23	2,350.62	2,143.2	+6.6	3,744	347	0	0	53	.12	.00
24	2,351.25	2,152.8	+9.5	5,221	426	0	0	0	.00	.60
25	2,351.84	2,161.7	+8.9	4,689	153	0	0	36	.08	.19
26	2,352.34	2,169.3	+7.6	4,197	347	0	0	27	.06	.21
27	2,352.79	2,176.1	+6.8	3,917	433	0	0	40	.09	.06
28	2,353.49	2,186.8	+10.7	5,560	162	0	0	27	.06	.64
29	2,354.55	2,202.9	+16.2	8,171	14	0	0	0	.00	1.00
30	2,355.40	2,215.9	+13.0	7,124	518	0	29	14	.03	.17
TOTALS			+179.6	116,456	24,664	0	29	1,136	2.59	7.00
ACRE-FEET			+179,600	230,990	48,921	0	58	2,253		

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

	RELEASE (ACRE-FEET)			PRECIPITATION	
POWER	48,921	OUTLET	58	THIS MONTH =	7.00
SPILL	0	TOTAL	48,979	JULY 1, 2002 TO DATE =	36.03

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

APRIL 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.	PRECIP INCHES	
							TO CLEAR CR (1) OUTLETS	SPILL	TO SPRING CR. PP			
		206.9										
1	1,198.94	207.0	+0.1	1,629	1,273	356	200	0	1,376	9	.10	.00
2	1,199.11	207.5	+0.5	1,853	1,470	383	200	0	1,386	13	.15	.02
3	1,199.19	207.7	+0.2	1,773	1,409	364	200	0	1,454	0	.00	.00
4	1,199.95	210.0	+2.3	2,756	2,294	462	200	0	1,418	0	.00	.58
5	1,200.39	211.3	+1.3	2,245	1,918	327	200	0	1,382	0	.00	.00
6	1,200.27	210.9	-0.4	1,454	1,143	311	200	0	1,431	4	.05	.00
7	1,200.83	212.6	+1.7	2,428	2,061	367	200	0	1,381	2	.02	.02
8	1,201.40	214.3	+1.7	2,462	2,107	355	200	0	1,389	8	.09	.00
9	1,202.00	216.1	+1.8	1,136	876	260	200	0	14	9	.10	.00
10	1,202.57	217.9	+1.7	1,097	837	260	200	0	14	10	.11	.00
11	1,202.88	218.8	+0.9	693	411	282	200	0	14	4	.05	.05
12	1,203.57	220.9	+2.1	1,278	118	1,160	200	0	14	0	.00	.07
13	1,205.07	225.5	+4.6	2,543	118	2,425	200	0	14	0	.00	3.00
14	1,206.47	229.9	+4.4	2,413	118	2,295	200	0	14	0	.00	1.46
15	1,207.42	232.9	+3.0	1,718	118	1,600	200	0	14	0	.00	.12
16	1,207.82	234.1	+1.3	1,576	118	1,458	200	0	740	0	.00	.32
17	1,208.06	234.9	+0.8	1,331	118	1,213	200	0	748	0	.00	.30
18	1,208.20	235.4	+0.4	1,169	118	1,051	200	0	745	0	.00	.00
19	1,208.37	235.9	+0.5	1,020	118	902	200	0	535	13	.14	.00
20	1,208.39	236.0	+0.1	990	118	872	200	0	744	14	.15	.00
21	1,208.47	236.2	+0.3	1,080	118	962	200	0	751	0	.00	.46
22	1,208.61	236.7	+0.4	933	118	815	200	0	509	0	.00	.31
23	1,208.61	236.7	+0.0	1,035	118	917	200	0	829	6	.06	.00
24	1,208.12	235.1	-1.6	1,382	118	1,264	200	0	1,967	0	.00	1.12
25	1,207.79	234.1	-1.0	1,652	118	1,534	200	0	1,974	4	.04	.55
26	1,207.35	232.7	-1.4	1,475	118	1,357	200	0	1,975	0	.00	.20
27	1,207.86	234.3	+1.6	1,286	118	1,168	200	0	275	0	.00	.10
28	1,209.20	238.5	+4.3	2,732	118	2,614	200	0	384	0	.00	.85
29	1,211.86	247.1	+8.6	5,965	118	5,847	200	1,143	297	0	.00	2.31
30	1,212.06	247.8	+0.7	4,088	118	3,970	200	3,309	251	0	.00	.86
TOTALS			+40.9	55,192	18,041	37,151	6,000	4,452	24,039	96	1.06	12.70
ACRE-FEET			+40.9	109,473	35,784	73,689	11,901	8,831	47,681	190		

* 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	47,681	OUTLET	11,901	THIS MONTH	12.70
SPILL	8,831	TOTAL	68,413	JULY 1, 2002 TO DATE	73.06

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

APRIL 2003

LEWISTON LAKE DAILY OPERATIONS

RUN DATE: June 11, 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
		14,068								
1	1,901.57	14,337	+269	1,713	0	45	255	1,273	4	.16
2	1,901.27	14,113	-224	1,661	0	45	255	1,470	4	.17
3	1,901.10	13,986	-127	1,646	0	45	255	1,409	1	.04
4	1,901.35	14,173	+187	2,689	0	45	255	2,294	1	.04
5	1,901.50	14,285	+112	2,276	0	45	255	1,918	2	.11
6	1,901.27	14,113	-172	1,358	0	45	255	1,143	2	.11
7	1,901.28	14,120	+7	2,366	0	45	255	2,061	1	.05
8	1,901.18	14,046	-74	2,373	0	45	255	2,107	3	.14
9	1,901.15	14,023	-23	1,168	0	45	255	876	4	.17
10	1,900.96	13,882	-141	1,070	0	45	255	837	4	.17
11	1,901.10	13,986	+104	764	0	45	255	411	1	.05
12	1,901.35	14,173	+187	514	0	45	255	118	2	.11
13	1,901.41	14,218	+45	441	0	45	255	118	0	.02
14	1,901.68	14,420	+202	521	0	45	255	118	1	.04
15	1,900.95	13,874	-546	145	0	45	255	118	2	.07
16	1,901.18	14,046	+172	506	0	45	255	118	1	.04
17	1,901.31	14,143	+97	468	0	45	255	118	1	.04
18	1,901.18	14,046	-97	372	0	45	255	118	3	.15
19	1,901.10	13,986	-60	391	0	45	255	118	3	.15
20	1,901.00	13,911	-75	384	0	45	255	118	4	.18
21	1,901.09	13,978	+67	454	0	45	255	118	2	.09
22	1,901.06	13,956	-22	408	0	45	255	118	1	.05
23	1,901.27	14,113	+157	500	50	48	202	118	3	.12
24	1,901.58	14,345	+232	538	80	50	170	118	3	.00
25	1,901.22	14,076	-269	284	80	50	170	118	2	.08
26	1,901.36	14,180	+104	471	80	50	170	118	1	.06
27	1,901.68	14,420	+240	541	80	50	170	118	2	.09
28	1,901.65	14,397	-23	407	80	50	170	118	1	.06
29	1,901.65	14,397	+0	418	80	50	170	118	0	.00
30	1,900.86	13,808	-589	710	80	50	758	118	1	.03
TOTALS			-260	27,557	610	1,388	7,590	18,041	60	2.59
ACRE-FEET			-260	54,659	1,210	2,753	15,055	35,784	119	

* 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	1,210	JUDGE FRANCIS CARR POWERPLANT	35,784
TOTAL RIVER	19,018	TOTAL RELEASE	54,802

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

APRIL 2003

SPRING CREEK DEBRIS RESERVOIR DAILY OPERATIONS

RUN DATE: June 11, 2003

DAY	ELEV	STORAGE		COMPUTED* INFLOW C.F.S.	RELEASE - C.F.S.		— SPRING CR DEBRIS DAM —		**KES COPPER MG/L
		IN LAKE	CHANGE		SPILL	OUTLET	TIME	COPPER ZINC	
		1,864							
1	735.09	1,798	-66	12	0	45			
2	733.88	1,744	-54	13	0	40			
3	732.65	1,690	-54	13	0	40			
4	731.56	1,642	-48	16	0	40			
5	730.23	1,586	-56	12	0	40			
6	728.98	1,533	-53	13	0	40			
7	727.52	1,473	-60	10	0	40			
8	726.06	1,414	-59	7	0	37			
9	726.67	1,439	+25	13	0	0			
10	727.24	1,462	+23	12	0	0			
11	727.79	1,484	+22	11	0	0			
12	730.14	1,582	+98	49	0	0			
13	738.19	1,943	+361	182	0	0			
14	743.77	2,221	+278	140	0	0			
15	746.78	2,383	+162	82	0	0			
16	749.16	2,516	+133	67	0	0			
17	751.07	2,627	+111	56	0	0			
18	752.58	2,716	+89	45	0	0			
19	753.78	2,788	+72	36	0	0			
20	754.91	2,857	+69	35	0	0			
21	756.36	2,945	+88	44	0	0			
22	757.54	3,019	+74	37	0	0			
23	758.27	3,065	+46	36	0	13			
24	758.73	3,094	+29	65	0	50			
25	760.56	3,210	+116	108	0	50			
26	761.88	3,296	+86	93	0	50			
27	762.50	3,337	+41	71	0	50			
28	764.97	3,501	+164	133	0	50			
29	772.24	4,011	+510	345	0	88			
30	772.12	4,002	-9	195	0	200			
TOTALS			+2,138	1,951	0	873			
ACRE-FEET			+2,138	3,870	0	1,732			

COMMENTS:

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

SUMMARY

RELEASE (ACRE-FEET)

SPILL	0
OUTLET	1,732
TOTAL	1,732

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

APRIL 2003

KESWICK RESERVOIR DAILY OPERATIONS

RUN DATE: June 11, 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)
		22,248								
1	584.45	22,168	-80	3,556	1,376	1,801	3,507	0	85	4
2	583.33	21,483	-685	3,210	1,386	1,435	3,470	0	85	0
3	583.15	21,374	-109	3,460	1,454	1,525	3,429	0	85	1
4	584.53	22,217	+843	3,946	1,418	2,063	3,436	0	85	0
5	584.67	22,303	+86	3,555	1,382	1,766	3,426	0	85	1
6	585.13	22,589	+286	3,657	1,431	1,692	3,425	0	85	3
7	585.08	22,557	-32	3,500	1,381	1,603	3,430	0	85	1
8	584.49	22,192	-365	3,343	1,389	1,514	3,440	0	85	2
9	584.27	22,057	-135	3,454	14	2,696	3,435	0	85	2
10	584.39	22,131	+74	3,561	14	3,023	3,436	0	85	3
11	584.13	21,970	-161	3,435	14	2,990	3,428	0	85	3
12	584.81	22,390	+420	3,698	14	3,127	3,399	0	85	2
13	585.92	23,085	+695	3,852	14	2,999	3,417	0	85	0
14	584.92	22,458	-627	3,207	14	2,437	3,438	0	85	0
15	582.79	21,158	-1,300	2,851	14	2,281	3,420	0	85	1
16	582.85	21,193	+35	4,485	740	3,283	4,382	0	85	0
17	582.44	20,949	-244	4,368	748	3,148	4,405	0	85	1
18	583.71	21,714	+765	4,859	745	3,642	4,385	0	85	3
19	584.82	22,396	+682	5,847	535	4,875	5,415	0	85	3
20	584.36	22,112	-284	5,380	744	4,184	5,435	0	85	3
21	583.39	21,520	-592	5,205	751	4,035	5,417	0	85	1
22	582.42	20,937	-583	7,136	509	6,139	7,343	0	85	2
23	581.02	20,112	-825	9,413	829	8,271	9,742	0	85	2
24	579.70	19,355	-757	14,293	1,967	12,334	14,643	0	32	0
25	581.31	20,282	+927	15,198	1,974	12,666	14,730	0	0	1
26	582.23	20,823	+541	14,340	1,975	12,046	14,062	0	0	5
27	582.04	20,710	-113	13,902	275	13,348	13,958	0	0	1
28	583.73	21,726	+1,016	14,249	384	13,321	12,143	1,589	0	5
29	584.69	22,316	+590	28,641	297	26,220	15,157	13,179	0	8
30	582.78	21,152	-1,164	29,076	251	27,765	14,795	14,868	0	0
TOTALS			-1,096	228,677	24,039	188,229	197,548	29,636	1,987	58
ACRE-FEET			-1,096	453,581	47,681	373,352	391,836	58,783	3,941	115

*COMPUTED INFLOW IS SUM OF CHANGE IN STORAGE, RELEASES, AND EVAPORATION.
(1) EVAPORATION RECORDS TAKEN FROM SHASTA PAN.

SUMMARY
RELEASE (ACRE-FEET)

POWER	391,836
SPILL	58,783
FISH TRAP	3,941

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

APRIL 2003

RED BLUFF DIVERSION RESERVOIR DAILY OPERATIONS

RUN DATE: June 11, 2003

DAY	ELEVATION	STORAGE		RELEASE C.F.S		RELEASE TO SACTO RIVER
		IN LAKE	CHANGE	CORNING CANAL	TEHAMA COLUSA CANAL	
		239				
1	237.48	204	-35	54	90	5,549
2	238.98	348	+144	0	138	6,211
3	238.97	347	-1	0	155	5,842
4	238.80	330	-17	0	156	5,766
5	238.17	265	-65	0	152	5,513
6	237.89	239	-26	0	137	5,119
7	237.75	227	-12	0	53	4,986
8	237.62	216	-11	0	226	4,632
9	237.51	206	-10	0	262	4,467
10	237.50	206	+0	0	281	4,493
11	237.51	206	+0	4	327	4,579
12	237.53	208	+2	0	335	6,241
13	237.65	218	+10	0	344	6,476
14	239.72	436	+218	0	244	8,352
15	239.33	390	-46	0	271	7,561
16	238.90	340	-50	0	261	7,897
17	238.86	336	-4	0	106	7,312
18	237.75	227	-109	0	104	6,574
19	237.65	218	-9	0	103	6,462
20	237.60	214	-4	0	105	6,353
21	237.51	206	-8	0	206	6,274
22	238.71	320	+114	0	204	7,416
23	239.32	388	+68	0	208	8,853
24	239.75	440	+52	0	210	17,136
25	244.01	1,132	+692	0	145	30,791
26	243.40	1,014	-118	0	145	35,562
27	242.07	775	-239	0	305	25,644
28	242.10	780	+5	0	195	25,536
29	240.13	488	-292	0	265	34,895
30	247.15	1,889	+1,401	0	150	56,944
TOTALS			+1,650	58	5,883	369,436
ACRE-FEET			+1,650	115	11,669	732,776

SUMMARY

RELEASE (ACRE-FEET)

CORNING CANAL	115
TEHAMA-COLUSA CANAL	11,669
TO SACTO RIVER	732,776
TOTAL	744,560

Table 10

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

DAILY OPERATION OF BLACK BUTTE RESERVOIR, STONY CREEK, CALIFORNIA

April 2003

Date	Midnight Elev (ft)	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)
					Total (sfd)	River (sfd)	[1] (sfd)	[2] (sfd)					
1	468.97	117155	483	290	30	30	0	0	32	0.14	0.02	97305	122400
2	469.2	118085	930	513	30	30	0	0	29	0.13	0.01	97205	125000
3	469.46	119141	1056	567	30	30	0	0	9	0.04	0.1	97142	127400
4	469.74	120283	1142	614	31	31	0	0	14	0.06	0.18	97047	127700
5	469.98	121267	984	539	31	31	0	0	23	0.1	0	96910	129200
6	470.23	122296	1029	561	31	31	0	0	23	0.1	0	96750	131500
7	470.47	123288	992	550	31	31	0	0	37	0.16	0	96592	132500
8	470.66	124077	789	453	31	31	0	0	49	0.21	0	97062	133700
9	470.79	124618	541	324	31	31	0	0	40	0.17	0	97070	134700
10	471.03	125620	1002	562	32	32	0	0	49	0.21	0	96841	135600
11	471.27	126626	1006	557	32	32	0	0	35	0.15	0.09	96650	136000
12	471.52	127680	1054	746	212	212	0	0	5	0.02	0.41	96481	135800
13	471.71	128483	803	1065	651	651	0	0	19	0.08	0.08	96190	136000
14	471.75	128653	170	850	750	750	0	0	28	0.12	0	96520	136200
15	471.7	128441	-212	656	750	750	0	0	26	0.11	0	96480	136200
16	471.65	128229	-212	650	750	750	0	0	14	0.06	0.02	96653	136200
17	471.6	128018	-211	656	750	750	0	0	24	0.1	0	96798	136200
18	471.54	127764	-254	658	750	750	0	0	71	0.3	0	96859	136200
19	471.49	127553	-211	597	680	680	0	0	47	0.2	0	96948	136200
20	471.51	127637	84	706	651	651	0	0	26	0.11	0.05	96450	136200
21	471.65	128229	592	961	652	652	0	0	21	0.09	0.29	95973	136200
22	471.72	128526	297	819	651	651	0	0	36	0.15	0	95978	136200
23	471.7	128441	-85	619	652	652	0	0	19	0.08	0.05	95990	136200
24	471.73	128568	127	731	650	650	0	0	33	0.14	0.03	96348	136200
25	471.79	128823	255	855	712	712	0	0	29	0.12	0.25	96975	136200
26	471.86	129120	297	971	799	799	0	0	45	0.19	0	96886	136200
27	472.03	129843	723	1185	804	804	0	0	33	0.14	0.23	96741	136200
28	472.09	130099	256	1395	1249	1249	0	0	33	0.14	0.71	97150	136200
29	471.93	129417	-682	1303	1631	1631	0	0	31	0.13	0	97798	136200
30	471.85	129077	-340	1297	1448	1448	0	0	40	0.17	0	98206	136200
Totals	(sfd)			22250	15532	15532	0	0					
Totals	(ac-ft)		12405	44133	30807.7	30807.7			920				
Totals	(inches)									3.92	2.52		

[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

APRIL 2003

FOLSOM LAKE DAILY OPERATIONS

RUN DATE: June 11, 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	
		619.7									
1	431.19	624.3	+4.6	4,442	1,943	0	0	133	54	.18	.00
2	431.74	629.3	+5.0	4,768	2,139	0	0	103	21	.07	.09
3	432.19	633.4	+4.1	4,139	1,936	0	0	132	15	.05	.03
4	432.65	637.6	+4.2	4,227	1,962	0	0	118	36	.12	.32
5	433.02	640.9	+3.4	3,717	1,876	0	0	133	9	.03	.04
6	433.35	644.0	+3.0	3,444	1,744	0	0	131	43	.14	.00
7	433.82	648.3	+4.3	4,423	2,069	0	0	141	40	.13	.00
8	434.28	652.5	+4.2	4,083	1,765	0	0	144	37	.12	.00
9	434.80	657.3	+4.8	4,543	1,901	0	0	171	49	.16	.00
10	435.29	661.9	+4.5	4,491	1,975	0	0	178	46	.15	.00
11	435.76	666.2	+4.4	4,345	1,945	0	0	148	47	.15	.00
12	436.50	673.2	+6.9	5,696	2,035	0	0	128	44	.14	.00
13	438.85	695.4	+22.2	12,968	1,616	0	0	126	32	.10	1.27
14	440.55	711.7	+16.3	10,079	1,713	0	0	124	26	.08	.89
15	441.47	720.6	+8.9	6,347	1,705	0	0	116	42	.13	.00
16	442.19	727.5	+7.0	5,535	1,848	0	0	122	39	.12	.00
17	442.89	734.4	+6.8	5,453	1,850	0	0	126	33	.10	.00
18	443.46	740.0	+5.6	4,914	1,967	0	0	126	3	.01	.61
19	443.94	744.7	+4.7	4,482	1,926	0	0	130	49	.15	.00
20	444.45	749.7	+5.0	4,532	1,814	0	0	130	49	.15	.00
21	445.11	756.2	+6.5	5,430	1,960	0	0	129	49	.15	.00
22	445.69	762.0	+5.8	5,026	1,964	0	0	121	33	.10	.28
23	446.27	767.8	+5.8	4,957	1,901	0	0	112	27	.08	.00
24	447.07	775.8	+8.0	6,237	2,041	0	0	109	47	.14	.05
25	448.18	787.0	+11.2	7,723	1,954	0	0	106	17	.05	.60
26	449.25	797.9	+10.9	8,217	2,601	0	0	117	20	.06	.27
27	450.12	806.8	+8.9	7,052	2,410	0	0	114	48	.14	.00
28	451.28	818.7	+11.9	8,614	2,426	0	0	108	65	.19	.84
29	452.08	827.0	+8.3	8,321	4,039	0	0	106	7	.02	.08
30	452.43	830.6	+3.6	7,311	5,358	0	0	105	14	.04	.02
TOTALS			+210.8	175,516	64,383	0	0	3,787	1,041	3.25	5.39
ACRE-Feet			+210,800	348,136	127,704	0	0	7,512	2,065		

COMMENTS:

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

SUMMARY

	RELEASE (ACRE-Feet)			PRECIPITATION	
POWER	127,704	OUTLET	0	THIS MONTH =	5.39
SPILL	0	TOTAL	135,216	JULY 1, 2002 TO DATE =	19.78
PUMPING PLANT	7,512				

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

APRIL 2003

LAKE NATOMA DAILY OPERATIONS

RUN DATE: June 11, 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	
		7,899							
1	123.28	7,923	+24	1,857	30	1,753	0	60	2
2	123.95	8,238	+315	1,996	30	1,746	0	60	1
3	123.96	8,242	+4	1,831	30	1,738	0	60	1
4	124.22	8,371	+129	1,905	30	1,748	0	60	2
5	124.04	8,281	-90	1,794	30	1,749	0	60	0
6	123.53	8,040	-241	1,712	30	1,742	0	60	2
7	124.08	8,301	+261	1,965	30	1,741	0	60	2
8	123.49	8,021	-280	1,691	30	1,740	0	60	2
9	123.43	7,993	-28	1,822	30	1,744	0	60	2
10	123.64	8,092	+99	1,880	30	1,738	0	60	2
11	123.84	8,186	+94	1,881	34	1,738	0	60	2
12	124.49	8,506	+320	2,011	40	1,748	0	60	2
13	124.85	8,686	+180	1,934	40	1,742	0	60	1
14	124.36	8,441	-245	1,719	40	1,742	0	60	1
15	123.69	8,115	-326	1,678	40	1,740	0	60	2
16	123.45	8,003	-112	1,783	40	1,737	0	60	2
17	123.40	7,979	-24	1,838	40	1,749	0	60	1
18	123.57	8,059	+80	1,885	40	1,745	0	60	0
19	123.61	8,078	+19	1,856	41	1,743	0	60	2
20	123.51	8,031	-47	1,834	45	1,751	0	60	2
21	123.57	8,059	+28	1,849	45	1,728	0	60	2
22	123.58	8,064	+5	1,835	45	1,726	0	60	1
23	123.33	7,946	-118	1,767	45	1,720	0	60	1
24	123.85	8,191	+245	1,975	45	1,744	0	60	2
25	124.01	8,266	+75	1,892	45	1,748	0	60	1
26	124.31	8,416	+150	2,493	45	2,311	0	60	1
27	123.40	7,979	-437	2,323	42	2,439	0	60	2
28	123.44	7,998	+19	2,528	29	2,427	0	60	2
29	122.66	7,638	-360	3,885	20	3,822	164	60	0
30	124.68	8,601	+963	5,361	32	4,782	0	60	1
TOTALS			+702	62,780	1,093	59,321	164	1,800	44
ACRE-FEET			+702	124,524	2,168	117,663	325	3,570	87

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	117,663	FOLSOM SOUTH CANAL	2,168	TOTAL	123,726
SPILL	325	HATCHERY	3,570		

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

APRIL 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	
		1,425.2								
1	994.89	1,424.7	-0.5	1,572	1,752	0	0	47	.16	.00
2	994.73	1,423.3	-1.4	1,098	1,811	0	0	12	.04	.74
3	994.70	1,423.0	-0.3	1,209	1,325	0	0	20	.07	.19
4	994.76	1,423.5	+0.5	1,550	1,263	0	0	15	.05	.46
5	994.76	1,423.5	+0.0	1,201	1,192	0	0	9	.03	.34
6	994.79	1,423.8	+0.3	1,111	934	0	0	41	.14	.00
7	994.70	1,423.0	-0.8	1,292	1,662	0	0	38	.13	.00
8	994.64	1,422.5	-0.5	1,275	1,506	0	0	41	.14	.00
9	994.55	1,421.6	-0.8	1,293	1,649	0	0	52	.18	.00
10	994.49	1,421.1	-0.5	1,453	1,681	0	0	44	.15	.00
11	994.45	1,420.7	-0.4	1,455	1,589	0	0	47	.16	.00
12	994.42	1,420.5	-0.3	1,560	1,679	0	0	17	.06	.00
13	994.88	1,424.6	+4.1	3,954	1,822	0	0	47	.16	1.00
14	995.22	1,427.7	+3.1	2,755	1,172	0	0	38	.13	.56
15	995.47	1,429.9	+2.3	2,113	964	0	0	12	.04	.32
16	995.37	1,429.0	-0.9	1,758	2,195	0	0	18	.06	.02
17	995.40	1,429.3	+0.3	1,634	1,485	0	0	12	.04	.11
18	995.41	1,429.4	+0.1	1,635	1,578	0	0	12	.04	.00
19	995.37	1,429.0	-0.4	1,354	1,513	0	0	23	.08	.04
20	995.32	1,428.6	-0.5	1,300	1,498	0	0	29	.10	.00
21	995.37	1,429.0	+0.5	1,818	1,559	0	0	32	.11	.06
22	995.36	1,428.9	-0.1	1,520	1,556	0	0	9	.03	.25
23	995.27	1,428.1	-0.8	1,364	1,738	0	0	35	.12	.00
24	995.12	1,426.8	-1.4	1,587	2,223	0	0	47	.16	.00
25	995.09	1,426.5	-0.3	2,053	2,175	0	0	15	.05	.55
26	995.12	1,426.8	+0.3	2,394	2,240	0	0	17	.06	.52
27	995.15	1,427.0	+0.3	2,015	1,834	0	0	44	.15	.00
28	995.15	1,427.0	+0.0	2,282	2,227	0	0	55	.19	.71
29	995.22	1,427.7	+0.6	1,919	1,556	0	0	44	.15	.00
30	995.17	1,427.2	-0.5	1,762	1,946	0	0	44	.15	.00
TOTALS			+2.0	51,286	49,324	0	0	916	3.13	5.87
ACRE-FEET			+2,000	101,726	97,834	0	0	1,817		

COMMENTS:

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

SUMMARY

	RELEASE (ACRE-FEET)			PRECIPITATION	
POWER	97,834	OUTLET	0	THIS MONTH =	5.87
SPILL	0	TOTAL	97,834	JULY 1, 2002 TO DATE =	23.31

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

APRIL 2003

GOODWIN RESERVOIR DAILY OPERATIONS

RUN DATE: September 14, 2004

DAY	ELEV	STORAGE		TULLOCH	RIVER		RELEASE - C.F.S.	
		ACRE-FEET RES.	CHANGE		RELEASE	OUTLET	SPILL	JOINT MAIN
		554						
1	360.24	554	+0	1,683	0	583	906	160
2	360.22	552	-2	1,425	0	587	793	34
3	360.30	558	+6	1,272	0	627	609	37
4	360.27	556	-2	1,228	0	685	470	68
5	360.30	558	+2	1,261	0	670	484	99
6	360.27	556	-2	1,293	0	661	506	125
7	360.35	562	+6	1,411	0	711	527	158
8	360.35	562	+0	1,520	0	757	546	198
9	360.35	562	+0	1,599	0	756	614	214
10	360.38	564	+2	1,623	0	755	615	236
11	360.35	562	-2	1,656	0	761	618	262
12	360.35	562	+0	1,668	0	760	628	276
13	360.24	554	-8	1,481	0	692	633	255
14	360.24	554	+0	1,453	0	607	634	204
15	360.24	554	+0	1,427	0	610	625	184
16	360.24	554	+0	1,419	0	612	619	179
17	360.24	554	+0	1,491	0	610	710	156
18	360.27	556	+2	1,549	0	609	770	156
19	360.27	556	+0	1,579	0	609	771	184
20	360.27	556	+0	1,571	0	613	772	174
21	360.25	555	-1	1,582	0	622	783	183
22	360.27	556	+1	1,586	0	622	768	196
23	360.55	576	+20	1,723	0	732	759	208
24	360.71	587	+11	2,081	0	1,150	678	219
25	360.71	587	+0	2,161	0	1,430	509	184
26	360.71	587	+0	2,037	0	1,420	490	155
27	360.71	587	+0	2,085	0	1,420	518	165
28	360.71	587	+0	2,037	0	1,420	471	164
29	360.71	587	+0	1,989	0	1,420	457	132
30	360.71	587	+0	2,018	0	1,420	475	132
TOTALS			+33	48,908	0	24,931	18,758	5,097
ACRE-FEET			+33	97,009	0	49,451	37,206	10,110

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

SUMMARY
 RELEASE (ACRE-FEET)

JOINT MAIN CANAL	37,206	OUTLET	0
SOUTH MAIN CANAL	10,110	SPILL	49,451
		TOTAL	96,767

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

APRIL 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			
		464.7									
1	566.76	467.1	+2.4	2,135	0	776	0	147	27	.18	
2	566.99	468.1	+1.1	1,505	0	770	0	147	54	.36	
3	567.26	469.4	+1.3	1,473	0	692	0	147	3	.02	
4	568.10	473.3	+3.9	2,709	0	592	0	147	5	.03	
5	568.90	477.0	+3.7	2,562	0	523	0	147	11	.07	
6	569.72	480.8	+3.8	2,606	0	503	0	148	17	.11	
7	570.59	484.9	+4.1	2,758	0	529	0	148	21	.14	
8	571.14	487.5	+2.6	2,026	0	547	0	148	26	.17	
9	572.04	491.8	+4.3	2,870	0	547	0	148	29	.19	
10	573.09	496.8	+5.0	3,245	0	547	0	148	31	.20	
11	573.65	499.4	+2.7	2,012	0	489	0	143	29	.19	
12	574.09	501.6	+2.1	1,649	0	421	0	141	25	.16	
13	574.62	504.1	+2.6	1,877	0	427	0	141	23	.15	
14	575.19	506.8	+2.7	1,925	0	377	0	141	22	.14	
15	575.55	508.6	+1.7	1,646	0	602	0	141	25	.16	
16	575.30	507.4	-1.2	338	0	773	0	141	34	.22	
17	575.20	506.9	-0.5	724	0	809	0	145	14	.09	
18	575.50	508.3	+1.5	1,798	106	794	0	147	19	.12	
19	575.76	509.6	+1.3	1,818	255	755	0	147	27	.17	
20	576.37	512.6	+3.0	2,734	255	808	0	147	31	.20	
21	576.75	514.4	+1.8	2,909	517	1,289	0	147	24	.15	
22	576.67	514.0	-0.4	2,522	725	1,833	0	147	13	.08	
23	576.51	513.2	-0.8	2,739	831	2,143	0	147	11	.07	
24	576.15	511.5	-1.8	2,468	758	2,426	0	147	20	.13	
25	576.04	511.0	-0.5	3,185	667	2,610	0	147	31	.20	
26	575.78	509.7	-1.3	2,926	621	2,769	0	147	24	.15	
27	575.49	508.3	-1.4	2,946	490	2,985	0	147	31	.20	
28	575.15	506.7	-1.6	3,066	438	3,257	0	147	53	.34	
29	574.69	504.4	-2.2	2,993	476	3,461	0	147	27	.17	
30	574.09	501.6	-2.9	2,669	526	3,441	0	146	12	.08	
TOTALS			+36.8	68,833	6,665	38,495	0	4,378	719	4.64	2.44
ACRE-FEET			+36,845	136,530	13,220	76,355	0	8,684	1,426		

COMMENTS:

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

SUMMARY

RELEASE (ACRE-FEET)		PRECIPITATION	
CANALS	RIVER	PRECIPITATION	
FRIANT-KERN	AT FRIANT	THIS MONTH =	2.44
MADERA	TOTAL RELEASES	JULY 1, 2002 TO DATE =	10.75

Table 16

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

April 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-Apr-03	19,878	175	0	609	1,987	1,983	1,939	22,649	1,750	5,696	3,638	252	0	42	9,628	9,889	11,271	12,481	11,271	41.2%	40.8%	34.9%
2-Apr-03	18,524	172	0	625	1,939	1,976	1,972	21,260	1,522	5,557	3,346	245	20	39	9,167	9,329	10,571	12,077	10,921	41.8%	41.0%	34.8%
3-Apr-03	18,037	169	0	698	2,004	1,983	1,997	20,908	837	5,098	2,910	239	29	38	8,257	8,749	11,814	11,915	11,219	38.2%	40.4%	34.3%
4-Apr-03	17,923	167	0	704	2,047	1,990	2,003	20,841	887	5,686	2,756	240	11	45	8,716	8,451	11,238	11,777	11,223	40.5%	40.1%	34.4%
5-Apr-03	18,228	164	0	715	2,020	2,004	2,016	21,127	-254	5,672	2,706	240	0	34	8,652	8,276	12,728	11,907	11,524	39.7%	39.4%	34.6%
6-Apr-03	18,213	161	0	927	2,071	2,012	2,016	21,372	-254	4,797	2,658	231	0	35	7,721	8,092	13,905	12,015	11,921	34.9%	38.3%	34.6%
7-Apr-03	17,827	158	0	765	2,015	2,021	2,021	20,765	-26	4,788	2,740	269	0	37	7,835	7,787	12,956	12,069	12,069	36.3%	36.9%	33.9%
8-Apr-03	17,764	159	0	690	2,050	2,025	2,015	20,663	709	5,080	2,718	329	16	43	8,155	7,594	11,799	12,144	12,035	37.7%	36.3%	33.5%
9-Apr-03	16,671	159	0	677	1,970	2,013	2,004	19,477	709	4,392	2,749	336	23	44	7,498	7,489	11,270	12,244	11,950	36.5%	36.8%	33.6%
10-Apr-03	15,705	160	0	739	1,919	1,985	1,989	18,523	1,850	5,190	2,749	337	27	44	8,293	7,626	8,380	11,754	11,593	42.7%	38.9%	34.8%
11-Apr-03	15,157	161	0	809	1,850	1,964	1,978	17,977	1,850	4,093	3,212	331	43	44	7,637	7,462	8,490	11,361	11,311	40.4%	39.8%	34.7%
12-Apr-03	15,130	162	0	836	1,874	1,947	1,976	18,002	1,850	3,098	3,405	246	10	40	6,778	7,249	9,374	10,882	11,150	36.1%	39.8%	34.4%
13-Apr-03	14,490	162	0	957	1,950	1,976	1,994	17,559	-839	3,869	3,411	144	10	33	7,447	7,029	10,951	10,460	11,134	41.4%	39.3%	34.4%
14-Apr-03	16,139	163	3,468	3,306	2,216	2,044	2,033	25,292	-2,208	4,175	3,410	176	29	38	7,771	7,122	19,729	11,428	11,748	29.9%	35.0%	34.7%
15-Apr-03	19,724	178	4,013	2,622	2,532	2,154	2,079	29,069	-2,208	642	1,606	326	0	42	2,617	5,704	28,660	13,836	12,876	7.7%	23.7%	27.2%
16-Apr-03	24,883	193	3,784	1,736	2,734	2,290	2,129	33,330	-2,208	649	858	308	0	39	1,855	3,780	33,683	17,038	14,176	4.5%	12.9%	17.3%
17-Apr-03	25,998	208	3,680	1,380	2,875	2,455	2,181	34,141	-2,208	645	859	309	0	40	1,853	1,753	34,496	20,769	15,371	4.4%	5.4%	7.7%
18-Apr-03	23,375	223	0	1,207	3,005	2,641	2,236	27,810	531	645	860	315	21	43	1,841	1,505	25,438	23,190	15,931	5.3%	4.7%	6.5%
19-Apr-03	21,499	238	0	1,180	3,177	2,820	2,287	26,094	1,900	643	858	297	0	42	1,840	1,503	22,354	25,044	16,269	5.8%	5.1%	6.3%
20-Apr-03	20,432	253	0	1,079	3,204	2,985	2,341	24,968	1,900	599	859	295	76	36	1,713	1,488	21,355	26,531	16,523	5.5%	5.5%	6.1%
21-Apr-03	19,739	268	0	1,006	3,371	3,124	2,396	24,384	1,900	646	859	288	0	38	1,831	1,488	20,653	26,663	16,720	6.2%	5.8%	6.1%
22-Apr-03	18,979	265	0	1,012	3,499	3,221	2,443	23,755	1,215	639	860	281	46	13	1,746	1,488	20,793	25,539	16,905	6.1%	5.9%	6.0%
23-Apr-03	18,887	262	0	1,123	3,416	3,283	2,480	23,688	987	627	857	285	58	7	1,718	1,496	20,983	23,724	17,082	6.0%	6.1%	5.9%
24-Apr-03	18,359	259	0	992	3,307	3,288	2,504	22,917	1,037	615	858	286	46	6	1,719	1,485	20,161	21,677	17,210	6.2%	6.1%	5.8%
25-Apr-03	18,599	255	3,538	1,037	3,040	3,272	2,526	26,469	124	643	856	259	43	9	1,724	1,485	24,621	21,560	17,507	5.5%	5.9%	5.6%
26-Apr-03	20,350	252	3,496	1,613	3,070	3,272	2,552	28,781	124	639	859	282	0	3	1,784	1,490	26,873	22,206	17,867	5.2%	5.6%	5.6%
27-Apr-03	27,137	249	3,474	2,027	3,200	3,254	2,578	36,087	809	639	853	284	15	3	1,764	1,496	33,514	23,943	18,447	4.1%	4.9%	5.3%
28-Apr-03	34,462	246	2,742	1,722	3,244	3,229	2,605	42,416	859	645	857	286	93	17	1,711	1,497	39,846	26,685	19,211	3.3%	4.1%	5.1%
29-Apr-03	36,978	248	3,824	2,486	3,328	3,230	2,633	46,864	-3,249	623	857	271	61	23	1,712	1,491	48,401	30,629	20,218	3.0%	3.4%	4.8%
30-Apr-03	38,500	250	4,657	2,755	3,418	3,231	2,655	49,580	-2,336	625	857	246	61	20	1,686	1,487	50,230	34,807	21,218	2.9%	3.1%	4.5%
Total	627,587	6,139	36,676	38,034	78,332	75,673	66,575	786,768	7,562	77,358	56,877	8,233	737	937	142,668	142,782	636,539	548,354	434,601	618.9%	651.2%	607.2%
Average	20,920	205	1,223	1,268	2,611	2,522	2,219	26,226	252	2,579	1,896	274	25	31	4,756	4,759	21,218	18,278		20.6%	21.7%	20.2%

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

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
STATE WATER PROJECT

APRIL 2003

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

RUN DATE: June 11, 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	
		1,953,851									
1	536.55	1,946,455	-7,396	1,394	4,936	175	0	-11	138	.34	.00
2	536.32	1,943,574	-2,881	661	1,916	150	0	-48	32	.08	.01
3	536.37	1,944,201	+627	1,111	436	169	0	-190	73	.18	.01
4	536.56	1,946,580	+2,379	1,445	0	144	0	-102	102	.25	.10
5	536.80	1,949,588	+3,008	1,734	0	144	0	-73	73	.18	.11
6	537.28	1,955,607	+6,019	3,309	0	173	0	-101	106	.25	.00
7	537.43	1,957,490	+1,883	1,426	250	165	0	-61	65	.16	.00
8	537.73	1,961,256	+3,766	2,307	149	165	0	-94	94	.23	.00
9	538.01	1,964,774	+3,518	2,224	163	169	0	-118	118	.29	.00
10	538.33	1,968,798	+4,024	2,603	246	206	0	-122	122	.30	.00
11	538.46	1,970,433	+1,635	2,846	1,928	228	0	+134	94	.23	.00
12	538.67	1,973,075	+2,642	1,571	0	228	0	-12	90	.22	.00
13	539.12	1,978,742	+5,667	3,140	0	193	0	-90	90	.22	.07
14	538.65	1,972,824	-5,918	0	3,280	178	0	+475	118	.29	.01
15	538.07	1,965,528	-7,296	175	3,644	164	0	-45	102	.25	.00
16	537.45	1,957,741	-7,787	0	3,828	165	0	+68	93	.23	.00
17	536.59	1,946,956	-10,785	0	5,274	159	0	-5	45	.11	.10
18	535.68	1,935,567	-11,389	0	5,670	154	0	+82	89	.22	.10
19	534.82	1,924,825	-10,742	0	5,314	167	0	+66	105	.26	.00
20	534.68	1,923,078	-1,747	298	944	176	0	-59	129	.32	.00
21	533.96	1,914,104	-8,974	491	4,465	187	0	-363	93	.23	.00
22	533.29	1,905,766	-8,338	34	4,292	195	0	+250	125	.31	.00
23	532.68	1,898,186	-7,580	0	3,558	183	0	-80	80	.20	.00
24	531.86	1,888,012	-10,174	0	4,835	166	0	-128	128	.32	.00
25	531.13	1,878,971	-9,041	0	4,336	162	0	-60	60	.15	.00
26	529.99	1,864,883	-14,088	0	6,954	73	0	-76	76	.19	.04
27	528.79	1,850,092	-14,791	0	7,382	146	0	+71	92	.23	.00
28	527.70	1,836,693	-13,399	0	6,699	147	0	+91	131	.33	.03
29	526.78	1,825,410	-11,283	0	5,670	152	0	+134	99	.25	.00
30	526.23	1,818,676	-6,734	1,176	3,746	156	0	-669	99	.25	.00
TOTALS			-135,175	27,945	89,915	5,039	0	-1,136	2,861	7.07	.58
ACRE-FEET			-135,175	55,429	178,346	9,995	0	-2,253	5,675		

SUMMARY

RELEASE (ACRE-FEET)				PRECIPITATION			
POWER	178,346	SPILL	0	THIS MONTH =	.58		
PACHECO TUNNEL	9,995	TOTAL	188,341	JULY 1, 2002 TO DATE =	8.63		

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

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
STATE WATER PROJECT

APRIL 2003

CONSOLIDATED STATE-FEDERAL O'NEILL FOREBAY
DAILY OPERATIONS

RUN DATE: June 11, 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		
		38,870									
1	220.18	43,619	+4,749	2,664	4,936	4,382	0	1,394	8,458		+264
2	220.98	45,708	+2,089	2,094	1,916	4,837	0	661	7,352		+219
3	221.55	47,204	+1,496	1,637	436	4,864	0	1,111	5,196		+125
4	221.14	46,128	-1,076	1,422	0	4,816	0	1,445	5,230		-104
5	221.34	46,653	+525	1,522	0	4,973	0	1,734	4,506		+10
6	219.40	41,605	-5,048	1,499	0	3,873	0	3,309	4,574		-33
7	220.50	44,453	+2,848	1,557	250	4,180	0	1,426	3,491		+365
8	220.70	44,975	+522	1,534	149	4,515	0	2,307	3,782		+154
9	219.78	42,583	-2,392	1,464	163	3,562	0	2,224	4,655		+484
10	219.04	40,686	-1,897	1,383	246	4,530	0	2,603	4,686		+173
11	218.81	40,103	-583	1,711	1,928	3,718	0	2,846	4,556		-249
12	218.70	39,825	-278	1,945	0	3,663	0	1,571	4,462		+285
13	217.38	36,551	-3,274	2,063	0	3,846	0	3,140	4,261		-158
14	221.03	45,839	+9,288	2,041	3,280	3,249	0	0	4,230		+343
15	220.89	45,472	-367	862	3,644	588	463	175	4,562		-79
16	220.06	43,308	-2,164	0	3,828	0	640	0	4,179		-99
17	220.68	44,923	+1,615	0	5,274	1,040	541	0	4,704		-254
18	221.48	47,020	+2,097	0	5,670	580	476	0	4,587		-130
19	222.60	49,980	+2,960	0	5,314	288	387	0	3,702		-21
20	219.92	42,945	-7,035	0	944	211	232	298	4,094		-78
21	220.66	44,870	+1,925	0	4,465	418	203	491	3,392		+173
22	220.60	44,714	-156	0	4,292	491	307	34	4,274		-247
23	220.10	43,411	-1,303	0	3,558	158	405	0	3,805		-163
24	220.30	43,931	+520	0	4,835	26	447	0	4,060		-91
25	219.40	41,605	-2,326	0	4,336	18	530	0	5,045		+49
26	220.50	44,453	+2,848	0	6,954	0	642	0	4,715		-161
27	220.79	45,210	+757	0	7,382	258	599	0	6,746		+86
28	222.22	48,969	+3,759	0	6,699	0	651	0	4,032		-120
29	222.64	50,086	+1,117	0	5,670	420	724	0	4,573		-229
30	220.95	45,629	-4,457	0	3,746	444	757	1,176	4,561		+567
TOTALS			+6,759	25,398	89,915	63,948	8,004	27,945	140,470		+1,081
ACRE-FEET			+6,759	50,377	178,346	126,841	15,876	55,429	278,622	1,010	2,144

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

SUMMARY
RELEASE (ACRE-FEET)

O'NEILL GEN.	15,876	DOS AMIGOS PUMP	278,622		
SAN LUIS PUMP	55,429	DELIVERIES	1,010	TOTAL	350,937

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

APRIL 2003

**FEDERAL-STATE OPERATIONS
 SAN LUIS UNIT**

RUN DATE: June 11, 2003

DAY	AQUEDUCT CHECK 12			O'NEILL PUMPING			O'NEILL GENERATION			SAN LUIS PUMPING			SAN LUIS GENERATION			PACHECO PUMP	DOS AMIGOS		
	FED	STATE	TOTAL	FED	STATE	TOTAL	FED	STATE	TOTAL	FED	STATE	TOTAL	FED	STATE	TOTAL	FED	STATE	TOTAL	
1	8,692	0	8,692	5,285	0	5,285	0	2,712	53	2,765	0	9,791	9,791	348	2,815	13,962	16,777		
2	9,595	0	9,595	4,154	0	4,154	0	1,278	33	1,311	0	3,800	3,800	297	2,812	11,771	14,583		
3	9,648	0	9,648	3,246	0	3,246	0	1,963	240	2,203	0	864	864	335	3,202	7,104	10,306		
4	9,552	0	9,552	2,820	0	2,820	0	0	2,867	2,867	0	0	0	286	2,964	7,410	10,374		
5	9,864	0	9,864	3,019	0	3,019	0	0	3,439	3,439	0	0	0	286	2,941	5,997	8,938		
6	7,682	0	7,682	2,973	0	2,973	0	0	6,564	6,564	0	0	0	344	2,642	6,431	9,073		
7	8,292	0	8,292	3,089	0	3,089	0	0	2,828	2,828	0	496	496	328	2,849	4,076	6,925		
8	8,955	0	8,955	3,042	0	3,042	0	0	4,575	4,575	0	295	295	328	3,048	4,453	7,501		
9	7,065	0	7,065	2,903	0	2,903	0	0	4,411	4,411	0	324	324	335	3,068	6,166	9,234		
10	8,986	0	8,986	2,744	0	2,744	0	0	5,163	5,163	0	488	488	409	3,061	6,234	9,295		
11	7,374	0	7,374	3,394	0	3,394	0	0	5,646	5,646	0	3,825	3,825	452	3,005	6,031	9,036		
12	7,266	0	7,266	3,857	0	3,857	0	0	3,117	3,117	0	0	0	452	3,079	5,771	8,850		
13	7,628	0	7,628	4,092	0	4,092	0	0	6,229	6,229	0	0	0	383	2,996	5,456	8,452		
14	6,444	0	6,444	4,048	0	4,048	0	0	0	0	0	6,506	6,506	354	3,135	5,256	8,391		
15	1,167	0	1,167	1,710	0	1,710	919	0	347	347	0	7,227	7,227	326	3,234	5,814	9,048		
16	0	0	0	0	0	0	1,270	0	0	0	3,960	3,633	7,593	328	3,197	5,093	8,290		
17	2,062	0	2,062	0	0	0	1,074	0	0	0	5,427	5,033	10,460	316	3,178	6,152	9,330		
18	1,151	0	1,151	0	0	0	945	0	0	0	6,445	4,801	11,246	306	3,233	5,865	9,098		
19	571	0	571	0	0	0	768	0	0	0	5,495	5,046	10,541	332	3,236	4,107	7,343		
20	419	0	419	0	0	0	460	0	592	592	0	1,873	1,873	349	3,169	4,952	8,121		
21	829	0	829	0	0	0	403	0	973	973	6,401	2,455	8,856	370	3,230	3,498	6,728		
22	974	0	974	0	0	0	609	0	67	67	4,498	4,015	8,513	387	3,216	5,262	8,478		
23	313	0	313	0	0	0	803	0	0	0	3,283	3,775	7,058	363	3,204	4,344	7,548		
24	51	0	51	0	0	0	887	0	0	0	3,228	6,362	9,590	330	3,138	4,916	8,054		
25	35	0	35	0	0	0	1,052	0	0	0	4,786	3,815	8,601	321	3,177	6,830	10,007		
26	0	0	0	0	0	0	1,274	0	0	0	7,346	6,447	13,793	144	3,162	6,190	9,352		
27	512	0	512	0	0	0	1,188	0	0	0	0	14,642	14,642	290	3,202	10,178	13,380		
28	0	0	0	0	0	0	1,292	0	0	0	5,629	7,658	13,287	292	3,250	4,747	7,997		
29	833	0	833	0	0	0	1,437	0	0	0	6,008	5,238	11,246	302	3,288	5,783	9,071		
30	880	0	880	0	0	0	1,501	0	2,333	2,333	3,065	4,365	7,430	310	3,288	5,759	9,047		
TOTAL	126,840	0	126,840	50,376	0	50,376	15,882	0	55,430	2,333	178,345	112,774	10,003	0	278,627	93,019	185,608		
FEDERAL	0	0	0	50,376	0	50,376	0	0	5,953	2,333	65,571	49,477	0	0	93,019	93,019	93,019		
STATE	126,840	0	126,840	0	0	0	15,882	0	49,477	0	112,774	62,797	10,003	0	185,608	0	2,356		

COMMENTS: ALL VALUES IN ACRE-FEET

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

APRIL 2003

FEDERAL-STATE OPERATIONS

RUN DATE: June 11, 2003

DAY	TRACY PUMPING			CLIFT COURT TOTAL	DELTA PUMPING PLANT			FED BANKS XVC	STATE			AQEDUCT CHECK 21			DMC-POOL DEMANDS
	FED	STATE	TOTAL		STATE	FED	TOTAL		AMIGOS XVC	BYRON BETHANY TOTAL	STATE	FED	TOTAL		
1	7,216	0	7,216	11,299	10,741	0	10,741	0	0	0	12,944	0	12,944	1,931	
2	6,636	0	6,636	11,023	10,704	0	10,704	0	101	39	10,801	0	10,801	2,482	
3	5,772	0	5,772	10,112	9,840	0	9,840	0	101	57	8,166	0	8,166	2,526	
4	5,467	0	5,467	11,278	11,063	0	11,063	0	297	22	7,719	0	7,719	2,647	
5	5,367	0	5,367	11,251	10,992	0	10,992	0	297	0	6,669	0	6,669	2,348	
6	5,272	0	5,272	9,515	8,697	0	8,697	0	297	0	6,682	0	6,682	2,299	
7	5,435	0	5,435	9,497	9,627	0	9,627	0	297	0	5,508	0	5,508	2,346	
8	5,392	0	5,392	10,077	10,713	0	10,713	0	138	31	5,488	0	5,488	2,350	
9	5,452	0	5,452	8,711	8,709	0	8,709	0	138	45	5,571	0	5,571	2,549	
10	5,453	0	5,453	10,295	10,090	0	10,090	0	138	54	6,301	0	6,301	2,709	
11	6,371	0	6,371	8,118	7,926	0	7,926	0	138	85	5,901	0	5,901	2,977	
12	6,753	0	6,753	6,144	8,166	0	8,166	0	138	20	6,093	0	6,093	2,896	
13	6,765	0	6,765	7,675	8,643	0	8,643	0	138	20	5,688	0	5,688	2,673	
14	6,763	0	6,763	8,282	9,019	0	9,019	0	138	57	5,287	0	5,287	2,715	
15	3,186	0	3,186	1,273	1,144	0	1,144	0	0	0	6,312	0	6,312	2,395	
16	1,702	0	1,702	1,288	0	0	0	0	0	0	6,061	0	6,061	2,972	
17	1,704	0	1,704	1,279	2,481	0	2,481	0	0	0	5,602	0	5,602	2,778	
18	1,705	0	1,705	1,279	1,323	0	1,323	0	0	42	6,781	0	6,781	2,650	
19	1,701	0	1,701	1,276	1,254	0	1,254	0	0	0	4,690	0	4,690	2,469	
20	1,704	0	1,704	1,188	1,253	0	1,253	0	0	150	6,717	0	6,717	2,164	
21	1,704	0	1,704	1,282	1,261	0	1,261	0	0	0	5,890	0	5,890	2,107	
22	1,706	0	1,706	1,268	1,261	0	1,261	0	0	92	5,789	0	5,789	2,315	
23	1,700	0	1,700	1,244	550	0	550	0	0	115	5,720	0	5,720	2,503	
24	1,701	0	1,701	1,220	550	0	550	0	0	91	5,894	0	5,894	2,588	
25	1,697	0	1,697	1,276	998	0	998	0	0	85	7,613	0	7,613	2,749	
26	1,704	0	1,704	1,268	817	0	817	0	0	0	7,578	0	7,578	2,978	
27	1,691	0	1,691	1,268	808	0	808	0	0	30	10,236	0	10,236	2,879	
28	1,699	0	1,699	1,279	815	0	815	0	0	185	6,643	0	6,643	2,991	
29	1,699	0	1,699	1,235	1,264	0	1,264	0	0	121	6,512	0	6,512	3,136	
30	1,699	0	1,699	1,239	817	0	817	0	0	121	7,332	0	7,332	3,200	
TOTALS	112,816	0	112,816	153,439	151,526	0	151,526	0	2,356	1,462	204,188	0	204,188	78,322	

COMMENTS: ALL VALUES IN ACRE-FEET

- TOTAL TRACY: 04/02/03 - Total Tracy Pumping of 6,636 AF includes 100 AF for CVC.
- TOTAL TRACY: 04/03/03 - Total Tracy Pumping of 5,772 AF includes 100 AF for CVC.
- TOTAL TRACY: 04/04/03 - Total Tracy Pumping of 5,467 AF includes 298 AF for CVC.
- TOTAL TRACY: 04/05/03 - Total Tracy Pumping of 5,367 AF includes 298 AF for CVC.
- TOTAL TRACY: 04/06/03 - Total Tracy Pumping of 5,272 AF includes 298 AF for CVC.
- TOTAL TRACY: 04/07/03 - Total Tracy Pumping of 5,435 AF includes 298 AF for CVC.
- TOTAL TRACY: 04/08/03 - Total Tracy Pumping of 5,392 AF includes 139 AF for CVC.
- TOTAL TRACY: 04/09/03 - Total Tracy Pumping of 5,452 AF includes 139 AF for CVC.
- TOTAL TRACY: 04/10/03 - Total Tracy Pumping of 5,453 AF includes 139 AF for CVC.
- TOTAL TRACY: 04/11/03 - Total Tracy Pumping of 6,371 AF includes 139 AF for CVC.
- TOTAL TRACY: 04/12/03 - Total Tracy Pumping of 6,753 AF includes 139 AF for CVC.
- TOTAL TRACY: 04/13/03 - Total Tracy Pumping of 6,765 AF includes 139 AF for CVC.
- TOTAL TRACY: 04/14/03 - Total Tracy Pumping of 6,763 AF includes 139 AF for CVC.
- TOTAL TRACY: April 2003 - Total Tracy Pumping includes 2,365 AF for CVC as follows:
 923 af delivered to Arvin Edison on behalf of Fresno Co (216 af), Hills Valley (242 af), Tri-Valley (82 af), Tulare Co. (383 af). 1,442 af delivered to Kern-Tulare WD.

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									0
Arvin-Edison WSD	1707	2374	0	20465									24546
Atwell Island WD	0	0	0	0									0
Delano-Earlimart ID	0	2960	3771	7150									13881
Exeter ID	0	10	79	136									225
City of Fresno	0	837	4	7									848
County of Fresno SA #34	4	3	20	15									42
Fresno ID	0	0	0	0									0
Garfield WD	0	0	0	174									174
Hills Valley ID	0	0	17	33									50
International WD	25	53	0	89									167
Ivanhoe ID	0	0	0	952									952
Kaweah Delta WCD	0	0	0	0									0
Kern County Water Agency	0	0	0	0									0
Kern-Tulare WD	0	0	1474	1734									3208
Lewis Creek WD	0	0	0	0									0
Lindmore ID	0	0	129	828									957
City of Lindsay	0	45	168	162									375
Lindsay-Strathmore ID	5	117	202	723									1047
Lower Tule River ID	0	0	0	10194									10194
North-Kern WSD	0	0	0	0									0
City of Orange Cove	70	71	86	100									327
Orange Cove ID	0	0	75	258									333
Pixley ID	0	0	0	2342									2342
Porterville ID	0	0	0	1284									1284
Rag Gulch WD	0	320	925	989									2234
Rosedale Rio Bravo WSD	0	0	0	2582									2582
Saucelito ID	0	321	1840	2232									4393
Semitropic WSD	0	0	0	0									0
Shafter Wasco ID	541	5629	3670	3579									13419
Southern San Joaquin MUD	0	5260	5151	7096									17507
Smallwood Vineyards	0	0	33	62									95
Stone Corral ID	0	0	9	232									241
Strathmore PUD	0	19	19	19									57
Styro Tek, Inc.	0	0	1	0									1
Tea Pot Dome WD	0	0	0	160									160
Terra Bella ID	0	0	125	449									574
Tri-Valley WD	0	0	0	0									0
Tulare ID	0	2692	0	11459									14151
Total	2352	20711	17798	75505	0	0	0	0	0	0	0	0	116366

* 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	4856									4856
Madera ID	0	0	0	4679									4679
Soquel	0	0	0	0									0
Total	0	0	0	9535	0	0	0	0	0	0	0	0	9535
MILLERTON LAKE													
County of Madera	1	2	3	3									9
Fresno County # 18	5	5	7	8									25
Gravelly Ford WD	0	2	345	1146									1493
Total	6	9	355	1157	0	0	0	0	0	0	0	0	1527

* 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	224									224
Broadview WD	1013	1646	930	480									4069
CCID (Abv CK 13)	240	139	1108	748									2235
CCID (Blw CK 13)	0	1347	4429	664									6440
Centinella WD	0	0	0	0									0
China Island (76.05)	0	1043	833	426									2302
Del Puerto WD	151	1735	3527	7750									13163
DWR Intertie @MP7.70-R	0	0	0	0									0
Eagle Field WD	59	425	142	50									676
Firebaugh Canal	2202	5784	1170	454									9610
Frietas Unit (76.05L)	0	1078	1258	835									3171
Mercy Springs WD	0	156	57	249									462
Oro Loma WD	0	281	0	0									281
Panoche WD - Ag	422	660	351	232									1665
Panoche WD - M&I	2	3	2	3									10
Patterson WD	0	209	354	336									899
Plainview WD	19	48	211	367									645
Salt Slough Unit (76.05L)	0	926	992	723									2641
San Luis WD - Ag	38	1841	812	818									3509
San Luis WD - M&I	1	1	3	3									8
Tracy, City of	104	361	571	720									1756
West Side ID	0	0	0	0									0
Widren	0	54	0	0									54
W. Stanislaus ID	0	556	1600	4081									6237
F&G - Los Banos Ref. 76.05L	0	1068	1168	538									2774
Volta Wildlife Mgmt Area (F&G)	109	17	127	195									448
Grasslands WD -76.05L	5851	3441	1085	725									11102
Grasslands WD - Volta	1286	1253	1139	0									3678
F&S (Volta) Santa Fee Kest.	0	0	0	0									0
F&S - Kesterson 76.05L	0	665	819	512									1996
Total DMC Deliveries	11497	24737	22688	21133	0	0	0	0	0	0	0	0	80555
Oneill Net Pumped	222449	122252	167000	34494									546195
DMC plus Oneill	233946	146989	189688	55627	0	0	0	0	0	0	0	0	626250

* 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	191									547
Broadview WD	4	1	0	2									3
City of Coalinga	310	423	197	501									1121
City of Dos Palos	62	68	78	95									241
City of Huron	43	50	64	90									204
Pacheco WD	225	399	179	126									704
Pacheco CCID Non-project (Hamburg)	457	984	537	0									1978
Panoche WD	3032	6457	3102	4068									16659
San Luis WD	1677	5012	4798	5688									17175
Westlands WD (Federal)	54952	72952	62666	74922									265492
Phase I (Non-chargeable)	1	5	0	0									6
Fish & Game (Lateral 4)	1	0	1	1									3
Fish & Game (Lateral 6)	0	0	0	0									0
Total	60947	86517	71812	85684	0	0	0	0	0	0	0	0	304960
O'NEILL FOREBAY DELIVERIES													
Oneill Forebay Wildlife	40	25	69	2									136
San Luis WD Ag	32	690	582	975									2279
San Luis M&I	37	32	21	33									123
VA Cemetary	1	4	3	4									12
Total	110	751	675	1014	0	0	0	0	0	0	0	0	2550
CROSS VALLEY CANAL													
Arvin Edison WSD	0	0	0	NA									0
Kern-Tulare	0	0	0	NA									0
Pixley ID	0	0	0	NA									0
Rag Gulch	0	0	0	NA									0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0
SAN FELIPE DIVISION													
Santa Clara	3970	1985	6652	9606									22213
San Benito	254	1407	623	397									2681
Total	4224	3392	7275	10003	0	0	0	0	0	0	0	0	24894

* 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	2479									3725
Cortina WD	0	0	0	37									37
Davis WD	0	2	17	339									358
Dunnigan WD	8	22	133	455									618
4-M Water District	0	3	7	85									95
GCID	0	43	960	2135									3138
Glenn Valley WD	0	0	0	0									0
Glide WD	0	8	0	269									277
Holthouse WD	0	7	24	109									140
Kanawha WD	3	27	146	737									913
Kirkwood WD	0	0	0	0									0
La Grande WD	0	0	0	85									85
Myers-Marsh MWC	0	0	25	47									72
Orland-Artois WD	14	120	29	518									681
Westside WD	0	40	453	2326									2819
Total	98	392	2847	9621	0	0	0	0	0	0	0	0	12958

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	207									207
Anderson Cottonwood ID	0	0	0	0									0
Andreotti, Arthur, et al	0	0	0	0									0
Baber, Jack, et	0	0	0	0									0
A&R Farms (Odysseus)	0	0	0	0									0
Cannel, Fred	0	0	0	0									0
Carter, Jane	0	0	0	0									0
Colusa Prop. Inc	0	0	0	0									0
Conaway Conservancy Group	0	0	0	0									0
Davis, Olive P, et al	0	0	0	1312									1312
Deseret Farms of Calif	0	0	0	0									0
Dommer, Elizabeth	0	0	0	0									0
Forry, David G, et al	0	0	0	0									0
Forster, Rosemary	0	0	0	0									0
Furlan Joint Venture (Area #1)	0	0	0	0									0
Furlan Joint Venture (Area #2)	0	0	0	0									0
Glenn-Colusa ID	0	0	0	44780									44780
Griffin, J, et al	0	0	0	0									0
Henle Family Limited Partnership	0	0	0	14									14
Hershey Land Co	0	0	0	0									0
Hiatt, Glenn	0	0	0	0									0
Hollins, Mariette B	0	0	0	7									7
Howald Farms	0	0	0	0									0
King, Barbara	0	0	0	0									0
Knaggs Walnut Ranches Co, L.P.	0	0	0	0									0
Lockett, William P.	0	0	0	0									0
Loma Cold Storage/J Micheli	0	0	0	18									18
M&T Inc.	0	0	0	0									0
MCM Properties, Inc	0	0	0	0									0
Maxwell ID	0	0	0	239									239
Meridan Farms WC	0	0	0	183									183
Natomas Central MWC	0	0	0	0									0
O'Brien, Janice	0	0	0	0									0
Oji Bros. Farms Inc	0	0	0	129									129
Oji, Mitsue Family PTN	0	0	0	0									0
Pelger Mutual WC	0	0	0	0									0
Pleasant Grove-Verona MWC	0	0	0	0									0
Princeton,-Codora-Glenn ID	0	0	0	2992									2992
Provident Irrigation District	0	0	0	3210									3210
Reclamation Dist #108	0	0	0	2087									2087
Reclamation Dist #1004	0	0	0	943									943
Reynen, John, et al	0	0	0	0									0
River Garden Farms	0	0	0	396									396
Roberts Ditch Irrigation Co	0	0	0	0									0
Sartain Mutual WC	0	0	0	0									0
Siddiqui, J & A & Siddiqui Family Plan	0	0	0	0									0
Spence, Ruth Ann	0	0	0	0									0
Sutter Mutual WC	0	0	0	3787									3787
Swinford Tract Irrigation Co	0	0	0	0									0
Tarke, James, et al	0	0	0	0									0
Tisdale Irrigation & Drain	0	0	0	45									45
Wallace Construction, Inc.	0	0	0	0									0
Wells, Joyce M	0	0	0	8									8
Wilson Ranch Partnership	0	0	0	0									0
Windswept Land & Livestock Co.	0	0	0	0									0
Total	0	0	0	60357									60357

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

Table 29

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	13642								
At Keswick	13500	9498	4232	7639								
At Bend Bridge	25382	13674	12271	12384								
At Vina Bridge	38278	17020	11719	14887								
At Ord Ferry	35335	15687	12185	14171								
At Colusa	30523	17735	12519	13086								
Below Wilkins Slough	24623	17618	12638	12632								
At Verona	46013	29817	20277	19263								
Sacramento at "I" Street	49929	33707	22335	20590								
Miscellaneous Stations												
Folsom computed inflow	3942	3227	3683	5851								
American R at Nimbus Dam	2626	4300	2019	2043								
Kings River at Pine Flat	111	94	401	706								
San Joaquin River												
At Friant Dam	104	103	114	146								
Near Vernalis	2211	2198	2191	2573								
Putah Creek												
Berryessa computed inflow	1328	564	736	750								
Putah Creek - Lake Solano	26	195	337	281								
Stanislaus River												
New Melones computed inflow	1068	962	1143	1710								
At Tulloch Dam	305	533	1123	1697								
At Orange Blossom	212	539	454	726								

* 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
	Apr-03	Jul 02 - Apr 03	Season	Season	of Jul-Jun	WY 03
				Total	Season	Total
				Jul 02 - Apr 03	TOTAL	Oct 02 - Apr 03
Alturas	1.84	7.61	1.05	12.48	61	7.48
Auberry	3.64	18.72	2.25	25.15	74	18.72
Auburn	7.09	29.97	2.66	33.66	89	29.97
Bakersfield	1.19	5.79	0.59	6.12	95	5.79
Blue Canyon	10.00	50.25	4.89	64.24	78	50.19
Cachuma	2.15	17.54	1.61	20.74	85	17.40
Calaveras Big Trees	13.45	44.90	4.69	54.99	82	44.90
Callahan	4.23	27.35	1.23	21.51	127	27.02
Colfax	8.57	42.27	3.68	47.47	89	41.89
Crane Valley	5.91	27.81	3.45	40.31	69	27.81
East Park	2.84	20.65	1.13	17.92	115	20.65
Folsom	5.39	19.78	1.99	24.64	80	19.78
Ft. Jones	2.26	27.10	1.14	21.69	125	26.48
Fresno	2.86	9.20	1.24	10.24	90	9.20
Friant Dam	2.44	10.64	1.29	14.40	74	10.64
Hetch Hetchy	10.41	32.08	3.22	35.93	89	31.82
Huntington	8.49	37.18	3.86	43.14	86	37.07
Georgetown	11.28	41.80	4.35	54.14	77	41.80
Lake Spaulding	17.62	71.86	5.53	69.73	103	71.78
Markley Cove (Berryessa)	3.97	30.87	1.85	25.53	121	30.87
McCloud	8.72	50.27	3.56	49.51	102	50.20
Mt. Shasta	8.72	52.50	2.71	38.51	136	51.55
New Melones	5.87	24.48	1.96	26.70	92	24.48
Pacific House	13.52	42.64	4.38	5.12	833	42.64
Placerville	8.78	31.07	3.27	38.85	80	31.07
Sacramento	2.75	15.09	1.42	18.42	82	14.76
Salt Springs	12.31	41.63	3.88	45.51	91	41.63
San Luis	0.58	7.34	0.74	9.81	75	7.34
Shasta Dam	12.02	71.39	4.27	61.59	116	71.35
Soda Springs	13.90	57.02	4.60	58.99	97	56.67
Sly Park	11.91	40.71	4.21	49.66	82	40.66
Stony Gorge	2.41	21.49	1.33	18.59	116	21.47
Susanville Airport	3.60	19.73	1.05	18.10	109	19.73
Tiger Creek	10.25	37.75	3.93	46.84	81	37.75
Trinity River Hatchery	7.00	36.01	2.10	34.21	105	35.95
Twin Lakes	9.46	30.62	3.87	47.56	64	30.14
Weaverville Ranger St.	7.02	43.71	2.19	38.52	113	43.46
Whiskeytown Dam	12.70	71.36	4.23	62.17	115	71.36
Yosemite Valley Hdqts.	7.29	35.58	2.88	36.88	96	34.42
Klamath Experiment St.	2.03	9.31	0.82	13.02	72	9.29

Data supplied by various agencies.