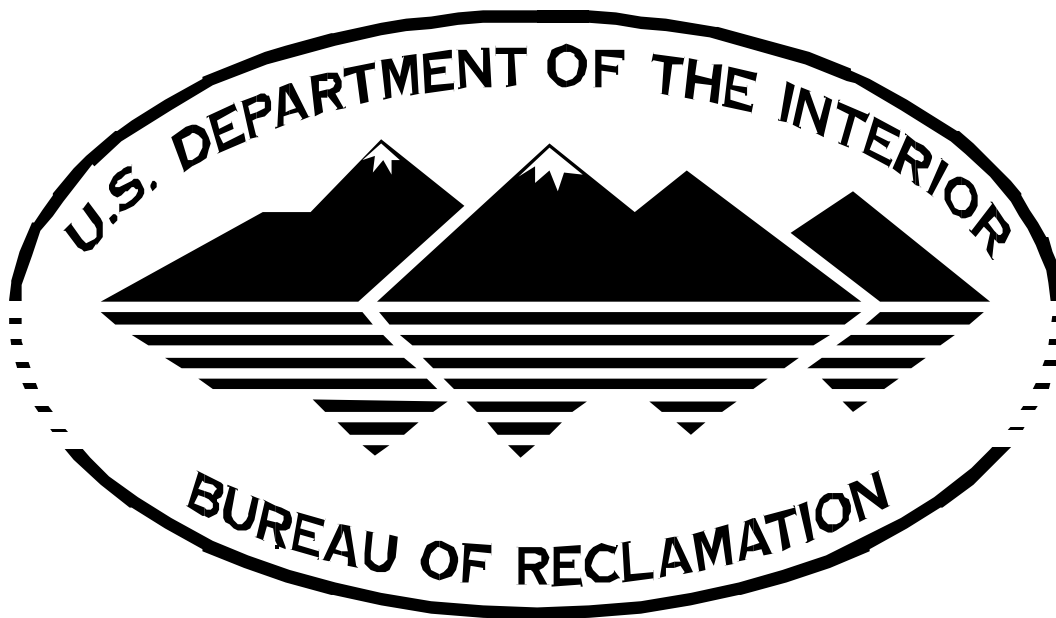


**UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION**

CENTRAL VALLEY OPERATIONS OFFICE

REPORT OF OPERATIONS



May 2003

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SUMMARY OF MAY 2003 OPERATIONS

Sacramento had an average monthly temperature of 67.1 °F which was .8 °F below normal. The average temperature at Shasta Dam was 60.4 °F which was 5.7 °F below normal and Huntington Lake was 5.5 °F below normal with an average temperature of 40.7 °F.

Trinity System: Storage in Trinity Lake increased 137,900 acre-feet this month to 2,353,800 acre-feet, which is 96 percent of capacity and 119 percent of the 15 year average for this date. The total inflow for the month was 361,858 acre-feet. The Trinity River release ranged between 1,250 to 2,500 ft³/s. Whiskeytown Lake was operated between elevations 1208.81 feet and 1211.75 feet with an end-of-month storage of 238,500 acre-feet. The releases to Clear Creek from Whiskeytown Dam ranged between 153 and 200 ft³/s. Total diversion from the Trinity River to the Sacramento River watershed for the month was 83,745 acre-feet.

Shasta-Keswick: Storage in Shasta Lake decreased 100,800 acre-feet for an end-of-month storage of 4,436,000 acre-feet, which is 97 percent of capacity and 118 percent of the 15 year average. The total inflow for the month was 804,430 acre-feet. The release to the Sacramento River at Keswick ranged between 6,000 and 30,000 ft³/s for the month.

Folsom-Nimbus: Storage in Folsom Lake increased 131,600 acre-feet and had an end-of-month storage of 962,400 acre-feet, which is 99 percent of capacity and 125 percent of the 15 year average for this date. The total inflow for the month was 493,772 acre-feet. The release to the American River at Nimbus ranged between 5,000 and 7,000 ft³/s during the month.

New Melones: Storage in New Melones increased 32,300 acre-feet for an end-of-month storage of 1,459,400 acre-feet or 60 percent of capacity and 109 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 155,479 acre-feet.

Delta-San Luis: Federal storage in San Luis Reservoir on May 31, 2003, was 744,000 acre-feet compared to the storage a year ago of 658,000 acre-feet.

Friant: Storage in Millerton Lake decreased 11,201 acre-feet to 490,400 acre-feet. The total monthly inflow was 232,466 acre-feet. The release to the San Joaquin River at Friant varied between 147 and 184 ft³/s.

CVP Totals: The total diversions to CVP canals were 372,127 acre-feet. The May 31, 2003, storage in the 18 CVP reservoirs was 9,955,000 acre-feet compared to storage 1 year ago of 9,133,000 acre-feet.

Power: Gross power production for the CVP totaled 717,557,300 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
BEAR	NARROWS	70,000	63,910	64,510	SAN LUIS **CVP	2,040,600	18,186,780	1,844,190	
	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

MAY 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			
		4,536.6								
1	1,066.09	4,525.0	-11.6	22,927	13,674	0	14,970	131	.15	
2	1,065.51	4,507.8	-17.2	20,157	12,326	0	16,372	122	.14	
3	1,064.81	4,487.1	-20.7	19,016	13,653	0	15,677	122	.14	
4	1,064.17	4,468.3	-18.9	18,109	13,657	0	13,874	87	.10	
5	1,063.66	4,453.3	-15.0	16,272	13,638	0	10,172	17	.02	
6	1,063.44	4,446.8	-6.5	15,951	13,564	0	5,468	173	.20	
7	1,063.25	4,441.3	-5.6	14,282	13,592	0	3,500	0	.00	
8	1,063.29	4,442.4	+1.2	14,319	13,554	0	0	173	.20	
9	1,063.52	4,449.2	+6.7	16,102	12,674	0	0	26	.03	
10	1,063.84	4,458.6	+9.4	14,531	9,677	0	0	121	.14	
11	1,064.32	4,472.7	+14.1	14,916	7,795	0	0	0	.00	
12	1,064.81	4,487.1	+14.4	14,201	6,790	0	0	130	.15	
13	1,064.97	4,491.9	+4.7	13,861	11,352	0	0	131	.15	
14	1,065.05	4,494.2	+2.4	13,317	11,916	0	0	209	.24	
15	1,065.16	4,497.5	+3.3	14,398	12,451	0	0	305	.35	
16	1,065.31	4,501.9	+4.4	13,926	11,469	0	0	218	.25	
17	1,065.26	4,500.4	-1.5	12,158	12,618	0	0	287	.33	
18	1,065.19	4,498.4	-2.1	11,836	12,620	0	0	261	.30	
19	1,065.06	4,494.5	-3.8	11,180	12,729	0	0	392	.45	
20	1,064.86	4,488.6	-5.9	9,963	12,713	0	0	226	.26	
21	1,064.60	4,481.0	-7.7	9,049	12,634	0	0	278	.32	
22	1,064.47	4,477.1	-3.8	11,114	12,750	0	0	295	.34	
23	1,064.37	4,474.2	-2.9	10,982	12,208	0	0	260	.30	
24	1,064.30	4,472.1	-2.1	10,319	11,055	0	0	304	.35	
25	1,064.21	4,469.5	-2.7	9,476	10,554	0	0	260	.30	
26	1,064.10	4,466.2	-3.2	10,211	11,732	0	0	113	.13	
27	1,063.96	4,462.1	-4.1	9,897	11,679	0	0	295	.34	
28	1,063.73	4,455.3	-6.7	8,869	11,933	0	0	338	.39	
29	1,063.48	4,448.0	-7.3	8,131	11,596	0	0	233	.27	
30	1,063.29	4,442.4	-5.6	8,657	11,225	0	0	242	.28	
31	1,063.07	4,436.0	-6.5	7,565	10,629	0	0	190	.22	
TOTALS			-100.8	405,692	370,457	0	80,033	5,939	6.84	1.23
ACRE-Feet			-100,800	804,690	734,801	0	158,745	11,780		

COMMENTS:

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

SUMMARY

	RELEASE (ACRE-Feet)			PRECIPITATION	
POWER	734,801	OUTLET	158,745	THIS MONTH =	1.23
SPILL	0	TOTAL	893,546	JULY 1, 2002 TO DATE =	73.41

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

MAY 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)	
		2,215.9								
1	2,355.88	2,223.3	+7.4	5,925	2,144	0	0	68	.15	.00
2	2,356.17	2,227.8	+4.5	5,037	2,717	0	0	72	.16	.00
3	2,356.47	2,232.4	+4.6	4,718	2,389	0	0	0	.00	.20
4	2,356.78	2,237.2	+4.8	4,810	2,368	0	0	36	.08	.25
5	2,357.05	2,241.3	+4.2	4,480	2,332	0	0	50	.11	.01
6	2,357.27	2,244.7	+3.4	4,115	2,324	0	0	77	.17	.00
7	2,357.46	2,247.7	+2.9	3,800	2,311	0	0	9	.02	.07
8	2,357.55	2,249.1	+1.4	4,044	3,243	0	0	100	.22	.00
9	2,357.54	2,248.9	-0.2	3,728	3,765	0	0	41	.09	.03
10	2,357.49	2,248.1	-0.8	3,526	3,807	0	0	109	.24	.00
11	2,357.42	2,247.0	-1.1	3,462	3,934	0	0	73	.16	.00
12	2,357.39	2,246.6	-0.5	3,725	3,923	0	0	36	.08	.02
13	2,357.45	2,247.5	+0.9	4,503	3,954	0	0	82	.18	.00
14	2,357.64	2,250.4	+2.9	5,580	3,991	0	0	109	.24	.00
15	2,357.90	2,254.5	+4.0	6,138	3,989	0	0	123	.27	.00
16	2,358.10	2,257.6	+3.1	5,657	3,987	0	0	109	.24	.00
17	2,358.22	2,259.4	+1.9	5,020	3,968	0	0	114	.25	.00
18	2,358.25	2,259.9	+0.5	4,301	3,952	0	0	114	.25	.00
19	2,358.25	2,259.9	+0.0	4,053	3,953	0	0	100	.22	.00
20	2,358.32	2,261.0	+1.1	4,600	3,944	0	0	109	.24	.00
21	2,358.55	2,264.5	+3.6	5,860	3,943	0	0	119	.26	.00
22	2,359.04	2,272.1	+7.6	7,908	3,962	0	0	114	.25	.00
23	2,359.73	2,282.9	+10.7	9,492	3,960	0	0	119	.26	.00
24	2,360.48	2,294.6	+11.7	9,993	3,972	0	0	120	.26	.00
25	2,361.10	2,304.3	+9.7	8,926	3,928	0	0	106	.23	.00
26	2,361.58	2,311.8	+7.5	7,830	3,931	0	0	93	.20	.00
27	2,362.07	2,319.5	+7.7	7,935	3,926	0	0	121	.26	.00
28	2,362.63	2,328.4	+8.9	8,513	3,925	0	0	121	.26	.00
29	2,363.26	2,338.4	+10.0	9,015	3,884	0	0	93	.20	.00
30	2,363.80	2,347.0	+8.6	8,309	3,873	0	0	103	.22	.00
31	2,364.23	2,353.8	+6.9	7,445	3,852	0	0	132	.28	.00
TOTALS			+137.9	182,448	110,151	0	0	2,772	6.05	.58
ACRE-FEET			+137,900	361,886	218,485	0	0	5,498		

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	218,485	OUTLET	0	THIS MONTH = .58
SPILL	0	TOTAL	218,485	JULY 1, 2002 TO DATE = 36.61

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

MAY 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				
		247.8										
1	1,211.75	246.8	-1.0	2,898	118	2,780	200	2,963	239	4	.04	.01
2	1,211.50	245.9	-0.8	2,381	118	2,263	200	2,302	278	10	.10	.00
3	1,211.34	245.4	-0.5	1,992	118	1,874	200	1,803	251	0	.00	.00
4	1,211.19	244.9	-0.5	1,733	118	1,615	200	1,531	248	0	.00	.76
5	1,210.60	243.0	-1.9	1,533	118	1,415	200	1,035	1,259	0	.00	.00
6	1,210.00	241.1	-1.9	1,400	118	1,282	200	175	1,976	24	.25	.00
7	1,209.45	239.3	-1.8	1,292	118	1,174	200	0	1,980	0	.00	.15
8	1,209.01	237.9	-1.4	1,907	794	1,113	200	0	2,408	9	.10	.01
9	1,208.90	237.6	-0.4	2,342	1,383	959	200	0	2,318	0	.00	.27
10	1,208.86	237.5	-0.1	2,437	1,489	948	200	0	2,287	14	.15	.00
11	1,209.03	238.0	+0.5	2,578	1,701	877	200	0	2,091	14	.15	.35
12	1,209.05	238.1	+0.1	2,273	1,470	803	200	0	2,041	0	.00	.10
13	1,209.14	238.3	+0.3	2,353	1,563	790	200	0	1,997	11	.12	.00
14	1,209.29	238.8	+0.5	2,313	1,577	736	200	0	1,855	16	.17	.00
15	1,209.20	238.5	-0.3	2,416	1,665	751	200	0	2,343	18	.19	.00
16	1,208.87	237.5	-1.1	2,411	1,691	720	200	0	2,725	17	.18	.00
17	1,208.85	237.4	-0.1	2,080	1,517	563	200	0	1,890	22	.24	.00
18	1,208.88	237.5	+0.1	2,033	1,493	540	200	0	1,746	39	.42	.00
19	1,208.92	237.6	+0.1	2,197	1,577	620	200	0	1,925	8	.09	.00
20	1,208.84	237.4	-0.3	2,182	1,625	557	200	0	2,091	19	.20	.00
21	1,208.81	237.3	-0.1	2,145	1,692	453	200	0	1,977	16	.17	.00
22	1,208.99	237.9	+0.6	2,523	1,974	549	200	0	2,012	23	.25	.00
23	1,209.14	238.3	+0.5	2,798	2,249	549	200	0	2,334	22	.23	.00
24	1,209.00	237.9	-0.4	2,320	1,926	394	200	0	2,334	12	.13	.00
25	1,208.98	237.8	-0.1	2,503	2,031	472	200	0	2,312	23	.25	.00
26	1,209.03	238.0	+0.2	2,432	2,012	420	200	0	2,135	16	.17	.00
27	1,208.89	237.5	-0.4	2,363	1,985	378	200	0	2,374	14	.15	.00
28	1,208.91	237.6	+0.1	2,379	1,997	382	198	0	2,127	22	.23	.00
29	1,208.94	237.7	+0.1	2,335	1,986	349	183	0	2,088	16	.17	.00
30	1,209.19	238.5	+0.8	2,468	2,128	340	168	0	1,884	13	.14	.01
31	1,209.19	238.5	+0.0	2,219	1,870	349	153	0	2,045	21	.22	.00
TOTALS			-9.2	69,236	42,221	27,015	6,102	9,809	57,570	423	4.51	1.66
ACRE-FEET			-9.2	137,330	83,745	53,584	12,103	19,456	114,190	839		

* 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	114,190	OUTLET	12,103	THIS MONTH	1.66
SPILL	19,456	TOTAL	145,749	JULY 1, 2002 TO DATE	74.72

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

Table 6

MAY 2003

LEWISTON LAKE DAILY OPERATIONS

RUN DATE: June 20, 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
		13,808								
1	1,900.59	13,609	-199	2,229	80	50	2,078	118	3	.15
2	1,901.38	14,195	+586	2,917	80	50	2,370	118	4	.16
3	1,901.55	14,322	+127	2,682	80	50	2,370	118	0	.00
4	1,901.67	14,412	+90	2,665	80	50	2,370	118	2	.08
5	1,901.66	14,405	-7	2,616	80	50	2,370	118	2	.11
6	1,901.52	14,300	-105	2,569	80	50	2,370	118	4	.17
7	1,901.35	14,173	-127	2,554	80	50	2,370	118	0	.02
8	1,901.69	14,427	+254	3,427	80	50	2,370	794	5	.22
9	1,901.58	14,345	-82	3,844	80	50	2,370	1,383	2	.09
10	1,901.37	14,188	-157	3,915	80	50	2,370	1,489	5	.24
11	1,900.88	13,823	-365	4,020	80	50	2,370	1,701	3	.16
12	1,901.13	14,008	+185	4,065	80	50	2,370	1,470	2	.08
13	1,901.15	14,023	+15	4,075	80	50	2,370	1,563	4	.18
14	1,901.20	14,061	+38	4,101	80	50	2,370	1,577	5	.24
15	1,900.93	13,859	-202	4,069	80	50	2,370	1,665	6	.27
16	1,900.62	13,631	-228	4,081	80	50	2,370	1,691	5	.24
17	1,900.86	13,808	+177	4,111	80	50	2,370	1,517	5	.25
18	1,901.09	13,978	+170	4,084	80	50	2,370	1,493	5	.25
19	1,901.08	13,971	-7	4,078	80	50	2,370	1,577	5	.22
20	1,901.14	14,016	+45	4,091	80	50	2,308	1,625	5	.24
21	1,901.44	14,240	+224	4,111	80	50	2,170	1,692	6	.26
22	1,901.22	14,076	-164	4,134	80	50	2,108	1,974	5	.25
23	1,900.46	13,514	-562	4,109	57	50	2,030	2,249	6	.26
24	1,900.85	13,801	+287	4,077	52	50	1,898	1,926	6	.26
25	1,900.82	13,779	-22	4,025	80	50	1,870	2,031	5	.23
26	1,900.92	13,852	+73	4,053	80	50	1,870	2,012	4	.20
27	1,901.02	13,926	+74	4,028	80	50	1,870	1,985	6	.26
28	1,901.09	13,978	+52	4,029	80	50	1,870	1,997	6	.26
29	1,901.06	13,956	-22	3,979	80	50	1,870	1,986	4	.20
30	1,900.64	13,646	-310	3,977	80	50	1,870	2,128	5	.22
31	1,900.89	13,830	+184	3,969	80	50	1,870	1,870	6	.28
TOTALS			+22	114,684	2,429	1,550	68,342	42,221	131	6.05
ACRE-FEET			+22	227,476	4,818	3,074	135,556	83,745	260	

* 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	4,818	JUDGE FRANCIS CARR POWERPLANT	83,745
TOTAL RIVER	143,448	TOTAL RELEASE	227,193

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

Table 7

MAY 2003

SPRING CREEK DEBRIS RESERVOIR DAILY OPERATIONS

RUN DATE: June 20, 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	
		4,002							
1	769.59	3,820	-182	108	0	200			
2	766.08	3,576	-244	77	0	200			
3	762.22	3,319	-257	70	0	200			
4	757.99	3,047	-272	63	0	200			
5	753.00	2,741	-306	46	0	200			
6	749.06	2,510	-231	34	0	150			
7	747.07	2,399	-111	44	0	100			
8	744.52	2,261	-138	30	0	100			
9	743.00	2,181	-80	30	0	70			
10	742.60	2,161	-20	30	0	40			
11	742.14	2,137	-24	28	0	40			
12	741.57	2,109	-28	26	0	40			
13	738.55	1,960	-149	20	0	95			
14	732.49	1,683	-277	10	0	150			
15	725.58	1,396	-287	5	0	150			
16	716.67	1,070	-326	-14	0	150			
17	718.05	1,117	+47	24	0	0			
18	719.24	1,159	+42	21	0	0			
19	720.37	1,199	+40	20	0	0			
20	721.40	1,237	+38	19	0	0			
21	722.37	1,273	+36	18	0	0			
22	723.23	1,305	+32	16	0	0			
23	724.07	1,337	+32	16	0	0			
24	724.79	1,365	+28	14	0	0			
25	725.57	1,395	+30	15	0	0			
26	726.23	1,421	+26	13	0	0			
27	726.89	1,448	+27	14	0	0			
28	727.52	1,473	+25	13	0	0			
29	728.06	1,495	+22	11	0	0			
30	728.59	1,517	+22	11	0	0			
31	729.10	1,538	+21	11	0	0			
TOTALS			-2,464	843	0	2,085			
ACRE-FEET			-2,464	1,672	0	4,136			

COMMENTS:

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

SUMMARY

RELEASE (ACRE-FEET)	
SPILL	0
OUTLET	4,136
TOTAL	4,136

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

Table 8

MAY 2003

KESWICK RESERVOIR DAILY OPERATIONS

RUN DATE: June 20, 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)
		21,152								
1	582.28	20,853	-299	29,428	239	28,644	14,288	15,288	0	3
2	581.97	20,668	-185	29,142	278	28,698	13,953	15,280	0	2
3	581.58	20,440	-228	29,672	251	29,330	13,981	15,804	0	2
4	582.87	21,205	+765	27,754	248	27,531	13,932	13,434	0	2
5	582.65	21,074	-131	24,948	1,259	23,810	14,127	10,887	0	0
6	580.62	19,881	-1,193	20,523	1,976	19,032	14,368	6,753	0	3
7	582.09	20,740	+859	18,432	1,980	17,092	14,403	3,596	0	0
8	580.04	19,547	-1,193	15,460	2,408	13,554	14,503	1,529	26	3
9	583.34	21,489	+1,942	14,825	2,318	12,674	13,760	35	50	1
10	584.30	22,075	+586	12,040	2,287	9,677	11,692	0	50	3
11	583.68	21,696	-379	10,015	2,091	7,795	10,156	0	50	0
12	580.27	19,680	-2,016	8,740	2,041	6,790	9,703	0	50	3
13	583.44	21,550	+1,870	13,480	1,997	11,352	12,484	0	50	3
14	582.12	20,758	-792	13,890	1,855	11,916	14,235	0	50	4
15	582.76	21,140	+382	14,608	2,343	12,451	14,359	0	50	6
16	581.25	20,247	-893	13,904	2,725	11,469	14,300	0	50	4
17	580.23	19,656	-591	13,983	1,890	12,618	14,225	0	50	6
18	579.25	19,103	-553	13,837	1,746	12,620	14,061	0	50	5
19	579.05	18,990	-113	14,062	1,925	12,729	14,062	0	50	7
20	579.72	19,367	+377	14,331	2,091	12,713	14,087	0	50	4
21	580.10	19,582	+215	14,322	1,977	12,634	14,159	0	50	5
22	580.38	19,743	+161	14,346	2,012	12,750	14,209	0	50	6
23	580.01	19,530	-213	14,121	2,334	12,208	14,173	0	50	5
24	581.83	20,586	+1,056	13,294	2,334	11,055	12,706	0	50	6
25	581.72	20,522	-64	12,674	2,312	10,554	12,651	0	50	5
26	581.81	20,575	+53	13,559	2,135	11,732	13,480	0	50	2
27	582.21	20,811	+236	13,663	2,374	11,679	13,488	0	50	6
28	583.44	21,550	+739	13,820	2,127	11,933	13,390	0	50	7
29	583.26	21,441	-109	13,440	2,088	11,596	13,440	0	50	5
30	582.55	21,014	-427	12,935	1,884	11,225	13,095	0	50	5
31	584.13	21,970	+956	12,616	2,045	10,629	12,080	0	50	4
TOTALS			+818	501,864	57,570	450,490	417,550	82,606	1,176	117
ACRE-FEET			+818	995,447	114,190	893,547	828,210	163,849	2,333	232

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

SUMMARY
 RELEASE (ACRE-FEET)

POWER	828,210
SPILL	163,849
FISH TRAP	2,333

MAY 2003

RED BLUFF DIVERSION RESERVOIR DAILY OPERATIONS

RUN DATE: June 20, 2003

DAY	ELEVATION	STORAGE		RELEASE C.F.S		RELEASE TO SACTO RIVER
		IN LAKE	ACRE-FEET CHANGE	CORNING CANAL	TEHAMA COLUSA CANAL	
		1,889				
1	247.15	1,889	+0	0	150	56,944
2	245.83	1,542	-347	0	148	38,874
3	246.75	1,779	+237	0	162	39,964
4	247.43	1,970	+191	0	163	58,137
5	245.79	1,532	-438	0	118	37,832
6	244.73	1,287	-245	0	121	31,076
7	243.86	1,103	-184	0	111	29,891
8	243.43	1,019	-84	0	124	29,175
9	242.74	891	-128	0	66	27,334
10	241.90	748	-143	0	95	25,622
11	241.23	644	-104	0	59	24,245
12	240.72	569	-75	0	238	23,714
13	239.86	453	-116	0	245	9,581
14	241.18	636	+183	21	311	24,863
15	241.69	715	+79	22	258	18,354
16	252.45	3,899	+3,184	32	509	19,470
17	252.53	3,938	+39	15	606	19,470
18	252.54	3,943	+5	12	688	19,230
19	252.57	3,958	+15	30	897	19,230
20	252.51	3,928	-30	48	684	18,910
21	252.48	3,914	-14	34	775	16,800
22	252.53	3,938	+24	49	907	16,800
23	252.51	3,928	-10	51	930	17,430
24	252.52	3,933	+5	69	976	18,150
25	252.50	3,924	-9	48	775	15,550
26	252.52	3,933	+9	49	873	16,230
27	252.49	3,919	-14	32	805	17,310
28	252.50	3,924	+5	54	943	17,190
29	252.48	3,914	-10	63	1,130	16,950
30	252.50	3,924	+10	46	1,081	16,590
31	252.47	3,909	-15	57	1,041	15,990
TOTALS			+2,020	732	15,989	756,906
ACRE-FEET			+2,020	1,452	31,714	1,501,323

SUMMARY

RELEASE (ACRE-FEET)

CORNING CANAL	1,452
TEHAMA-COLUSA CANAL	31,714
TO SACTO RIVER	1,501,323
TOTAL	1,534,489

Table 10

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

DAILY OPERATION OF BLACK BUTTE RESERVOIR, STONY CREEK, CALIFORNIA

May 2003

Date	Midnight Elev (ft)	Storage 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	471.82	128950	-127	1277	1318	1318	0	0	46	0.19	0	98356	136200
2	471.88	129205	255	1159	1030	1030	0	0	0	0	0.52	99525	136200
3	472.09	130099	894	2390	1928	1928	0	0	22	0.09	0.35	99169	136200
4	472.09	130099	0	2189	2164	2164	0	0	49	0.2	0.39	98542	136200
5	471.95	129502	-597	1642	1920	1920	0	0	46	0.19	0	98859	136200
6	471.95	129502	0	1370	1359	1359	0	0	22	0.09	0.37	99410	136200
7	472.01	129758	256	1486	1334	1334	0	0	46	0.19	0.02	99117	136200
8	472.05	129928	170	1486	1388	1388	0	0	24	0.1	0	98990	136200
9	472.08	130056	128	1370	1285	1285	0	0	41	0.17	0	98490	136200
10	472.1	130142	86	1199	1131	1131	0	0	49	0.2	0	98345	136200
11	472.15	130355	213	1101	966	966	0	0	54	0.22	0	98100	136200
12	472.2	130569	214	1095	955	955	0	0	63	0.26	0	98066	136200
13	472.4	131425	856	1066	601	601	0	0	66	0.27	0	97530	136200
14	472.64	132458	1033	913	361	361	0	0	61	0.25	0	97851	136200
15	472.63	132414	-44	762	760	691	69	0	47	0.19	0	98152	136200
16	472.58	132199	-215	726	801	707	94	0	66	0.27	0	98348	136200
17	472.48	131769	-430	637	794	691	103	0	118	0.48	0	98385	136200
18	472.44	131597	-172	645	671	534	134	3	120	0.49	0	98526	136200
19	472.46	131683	86	616	528	326	199	3	88	0.36	0	98559	136200
20	472.5	131855	172	633	505.4	276	225	4.4	81	0.33	0	98572	136200
21	472.52	131941	86	628	543	307	231	5	83	0.34	0	98530	136200
22	472.53	131984	43	617	552	303	244	5	86	0.35	0	98481	136200
23	472.55	132070	86	636	547	293	249	5	91	0.37	0	98378	136200
24	472.55	132070	0	589	556	299	252	5	66	0.27	0	98299	136200
25	472.56	132113	43	601	558	341	212	5	42	0.17	0	98185	136200
26	472.56	132113	0	585	553	375	173	5	64	0.26	0	98010	136200
27	472.53	131984	-129	534	552	393	154	5	93	0.38	0	97816	136200
28	472.51	131898	-86	551	555	399	151	5	78	0.32	0	97598	136200
29	472.51	131898	0	523	486	315	166	5	74	0.3	0	97338	136200
30	472.53	131984	86	494	422	245	172	5	56	0.23	0	97090	136200
31	472.57	132156	172	537	409	196	208	5	81	0.33	0	96821	136200
Totals	(sfd)			30057	27532.4	24431	3036	65.4					
Totals	(ac-ft)		3079	59618	54610.5	48458.9			1923				
Totals	(inches)									7.86	1.65		

[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

MAY 2003

FOLSOM LAKE DAILY OPERATIONS

RUN DATE: June 20, 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	
		830.6									
1	452.76	834.0	+3.4	6,882	4,989	0	0	105	59	.17	.00
2	453.10	837.6	+3.5	6,953	5,013	0	0	104	52	.15	.00
3	453.42	840.9	+3.3	7,313	5,481	0	0	104	42	.12	.59
4	454.15	848.6	+7.6	9,410	5,433	0	0	105	21	.06	.06
5	454.77	855.1	+6.5	8,901	5,440	0	0	118	56	.16	.00
6	455.32	860.9	+5.8	8,539	5,443	0	0	119	52	.15	.00
7	455.80	866.0	+5.1	7,734	4,992	0	0	116	67	.19	.00
8	456.28	871.0	+5.1	8,320	5,596	0	0	111	46	.13	.03
9	456.86	877.2	+6.2	8,837	5,586	0	0	108	35	.10	.21
10	457.27	881.6	+4.4	7,914	5,539	0	0	117	53	.15	.00
11	457.49	883.9	+2.4	6,874	5,495	0	0	129	64	.18	.00
12	457.81	887.4	+3.4	7,439	5,496	0	0	144	75	.21	.00
13	458.28	892.4	+5.0	8,306	5,515	0	0	162	89	.25	.00
14	458.82	898.2	+5.8	8,671	5,496	0	0	164	86	.24	.00
15	459.38	904.2	+6.0	9,121	5,800	0	0	184	93	.26	.00
16	459.79	908.7	+4.4	9,096	5,908	680	0	196	79	.22	.00
17	460.03	911.3	+2.6	7,969	5,729	663	0	197	72	.20	.00
18	460.27	913.9	+2.6	7,774	5,704	443	0	205	108	.30	.00
19	460.44	915.7	+1.8	7,715	5,754	714	0	222	94	.26	.00
20	460.58	917.2	+1.5	7,808	5,822	882	0	237	101	.28	.00
21	460.81	919.7	+2.5	7,766	4,853	1,293	0	267	94	.26	.00
22	461.01	921.9	+2.2	8,081	5,734	886	0	265	101	.28	.00
23	461.45	926.7	+4.8	8,713	5,528	388	0	278	98	.27	.00
24	462.03	933.0	+6.3	8,588	4,982	0	0	279	134	.37	.00
25	462.57	939.0	+5.9	8,269	4,911	0	0	265	105	.29	.00
26	462.94	943.0	+4.1	7,261	4,872	0	0	269	73	.20	.00
27	463.33	947.3	+4.3	7,642	5,089	0	0	291	95	.26	.00
28	463.81	952.6	+5.3	8,152	5,099	0	0	287	95	.26	.00
29	464.06	955.4	+2.8	7,394	5,554	0	0	327	121	.33	.00
30	464.30	958.0	+2.7	7,339	5,617	0	0	277	103	.28	.00
31	464.69	962.4	+4.3	8,159	5,613	0	0	296	70	.19	.00
TOTALS			+131.6	248,940	168,083	5,949	0	6,048	2,433	6.77	.89
ACRE-FEET			+131,600	493,772	333,393	11,800	0	11,996	4,826		

COMMENTS:

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

SUMMARY

	RELEASE (ACRE-FEET)			PRECIPITATION	
POWER	333,393	OUTLET	0	THIS MONTH =	.89
SPILL	11,800	TOTAL	357,189	JULY 1, 2002 TO DATE =	20.67
PUMPING PLANT	11,996				

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

Table 12

MAY 2003

LAKE NATOMA DAILY OPERATIONS

RUN DATE: June 20, 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	
		8,601							
1	124.85	8,686	+85	5,077	46	4,926	0	60	2
2	124.15	8,336	-350	5,141	49	4,935	271	60	2
3	124.37	8,446	+110	5,608	40	4,946	505	60	2
4	124.29	8,406	-40	5,545	40	4,959	505	60	1
5	124.21	8,366	-40	5,547	40	4,960	505	60	2
6	124.17	8,346	-20	5,531	40	4,935	504	60	2
7	122.48	7,557	-789	5,035	40	4,257	1,074	60	2
8	122.55	7,589	+32	5,562	40	4,944	500	60	2
9	122.70	7,656	+67	5,537	40	4,900	502	60	1
10	122.68	7,647	-9	5,488	40	4,888	503	60	2
11	122.47	7,553	-94	5,462	40	4,906	501	60	2
12	122.26	7,458	-95	5,460	37	4,909	499	60	3
13	122.10	7,386	-72	5,503	38	4,942	496	60	3
14	122.12	7,395	+9	5,545	40	4,942	495	60	3
15	122.83	7,715	+320	5,784	40	4,928	592	60	3
16	124.30	8,411	+696	6,572	43	4,954	1,161	60	3
17	123.91	8,219	-192	6,528	48	4,938	1,576	60	3
18	122.82	7,710	-509	6,315	50	4,924	1,534	60	4
19	122.84	7,719	+9	6,545	50	4,921	1,506	60	3
20	123.49	8,021	+302	6,724	50	4,932	1,526	60	4
21	122.14	7,404	-617	6,234	45	4,284	2,157	56	3
22	122.23	7,445	+41	6,567	50	4,940	1,492	60	4
23	122.08	7,377	-68	6,002	47	4,934	992	60	3
24	122.14	7,404	+27	5,067	45	4,921	22	60	5
25	121.98	7,333	-71	4,992	45	4,919	0	60	4
26	121.71	7,219	-114	4,971	45	4,920	0	60	3
27	122.06	7,368	+149	5,107	45	4,924	0	60	3
28	122.10	7,386	+18	5,062	45	3,698	1,247	60	3
29	122.24	7,449	+63	5,546	45	4,910	495	60	4
30	122.60	7,611	+162	5,619	45	4,929	499	60	4
31	122.93	7,760	+149	5,598	45	4,913	503	60	2
TOTALS			-841	175,274	1,353	150,238	22,162	1,856	87
ACRE-FEET			-841	347,656	2,684	297,997	43,958	3,681	173

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	297,997	FOLSOM SOUTH CANAL	2,684	TOTAL	348,320
SPILL	43,958	HATCHERY	3,681		

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

MAY 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	
		1,427.2								
1	995.13	1,426.9	-0.4	1,844	1,968	0	0	58	.20	.00
2	995.01	1,425.8	-1.1	1,759	2,247	0	0	58	.20	.07
3	995.06	1,426.2	+0.5	1,943	1,668	0	0	47	.16	.30
4	995.34	1,428.8	+2.5	2,762	1,465	0	0	23	.08	.30
5	995.56	1,430.7	+2.0	2,087	1,039	0	0	47	.16	.01
6	995.68	1,431.8	+1.1	1,940	1,341	0	0	53	.18	.00
7	995.76	1,432.6	+0.7	1,830	1,408	0	0	58	.20	.00
8	995.93	1,434.1	+1.5	2,270	1,444	0	0	53	.18	.01
9	996.08	1,435.4	+1.4	2,320	1,598	0	0	38	.13	.20
10	996.17	1,436.3	+0.8	1,997	1,542	0	0	44	.15	.00
11	996.39	1,438.3	+2.0	2,504	1,452	0	0	47	.16	.00
12	996.67	1,440.8	+2.5	2,590	1,244	0	0	67	.23	.00
13	996.80	1,442.0	+1.2	2,541	1,872	0	0	76	.26	.00
14	996.88	1,442.7	+0.7	2,398	1,956	0	0	76	.26	.00
15	996.92	1,443.1	+0.4	2,329	2,102	0	0	44	.15	.00
16	996.98	1,443.6	+0.5	2,456	2,112	0	0	70	.24	.00
17	996.85	1,442.4	-1.2	2,406	2,941	0	0	59	.20	.00
18	996.69	1,441.0	-1.4	2,318	2,979	0	0	70	.24	.00
19	997.11	1,444.8	+3.8	2,499	508	0	0	71	.24	.00
20	997.23	1,445.9	+1.1	2,411	1,781	0	0	79	.27	.00
21	996.84	1,442.3	-3.5	2,465	4,168	0	0	82	.28	.00
22	997.06	1,444.3	+2.0	2,905	1,817	0	0	82	.28	.00
23	997.32	1,446.7	+2.4	3,177	1,909	0	0	76	.26	.00
24	997.53	1,448.6	+1.9	3,129	2,087	0	0	79	.27	.00
25	997.78	1,450.9	+2.3	3,040	1,835	0	0	59	.20	.00
26	997.91	1,452.1	+1.2	2,651	1,984	0	0	71	.24	.00
27	997.94	1,452.3	+0.3	2,816	2,598	0	0	80	.27	.00
28	998.09	1,453.7	+1.4	3,153	2,380	0	0	83	.28	.00
29	998.30	1,455.6	+1.9	3,084	2,015	0	0	103	.35	.00
30	998.51	1,457.5	+1.9	3,471	2,422	0	0	83	.28	.00
31	998.72	1,459.4	+1.9	3,291	2,241	0	0	83	.28	.00
TOTALS			+32.3	78,386	60,123	0	0	2,019	6.88	.89
ACRE-FEET			+32,300	155,479	119,254	0	0	4,005		

COMMENTS:

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

SUMMARY

	RELEASE (ACRE-FEET)			PRECIPITATION	
POWER	119,254	OUTLET	0	THIS MONTH =	.89
SPILL	0	TOTAL	119,254	JULY 1, 2002 TO DATE =	24.20

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

MAY 2003

GOODWIN RESERVOIR DAILY OPERATIONS

RUN DATE: September 14, 2004

DAY	ELEV	STORAGE		TULLOCH	RIVER		RELEASE - C.F.S.	
		ACRE-FEET	CHANGE		RELEASE	OUTLET	SPILL	JOINT MAIN
		587						
1	360.17	549	-38	2,035	0	1,420	464	149
2	360.71	587	+38	1,991	0	1,430	458	127
3	360.52	573	-14	1,747	0	1,220	465	97
4	360.24	554	-19	1,446	0	916	466	96
5	360.24	554	+0	1,156	0	570	478	109
6	360.24	554	+0	1,215	0	573	499	140
7	360.24	554	+0	1,305	0	577	514	200
8	360.24	554	+0	1,373	0	572	560	233
9	360.24	554	+0	1,455	0	578	619	245
10	360.24	554	+0	1,536	0	576	668	280
11	360.24	554	+0	1,587	0	576	685	314
12	360.24	554	+0	1,626	0	575	687	349
13	360.33	560	+6	1,719	0	656	689	358
14	360.33	560	+0	1,917	0	707	817	358
15	360.33	560	+0	2,126	0	702	892	358
16	360.33	560	+0	2,116	0	719	900	336
17	360.49	571	+11	2,252	0	867	904	318
18	360.49	571	+0	2,334	0	956	891	318
19	360.49	571	+0	2,324	0	948	888	338
20	360.52	573	+2	2,367	0	956	945	356
21	360.24	554	-19	2,183	0	747	980	354
22	360.24	554	+0	2,081	0	571	985	353
23	360.24	554	+0	2,080	0	575	975	354
24	360.24	554	+0	2,068	0	578	976	376
25	360.24	554	+0	2,069	0	577	1,000	395
26	360.24	554	+0	2,061	0	578	1,000	389
27	360.44	568	+14	2,204	0	699	1,020	376
28	360.52	573	+5	2,493	0	926	1,030	390
29	360.52	573	+0	2,479	0	992	980	403
30	360.49	571	-2	2,421	0	1,000	934	403
31	360.49	571	+0	2,402	0	1,000	911	403
TOTALS			-16	60,168	0	24,337	24,280	9,275
ACRE-FEET			-16	119,343	0	48,272	48,159	18,397

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

SUMMARY
 RELEASE (ACRE-FEET)

JOINT MAIN CANAL	48,159	OUTLET	0
SOUTH MAIN CANAL	18,397	SPILL	48,272
		TOTAL	114,828

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

MAY 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			
		501.6									
1	573.27	497.6	-3.9	1,984	528	3,252	0	147	36	.23	
2	573.65	499.4	+1.8	4,614	477	3,053	0	148	19	.12	
3	573.39	498.2	-1.2	2,971	428	3,000	0	148	22	.14	
4	573.17	497.1	-1.1	3,053	418	2,999	0	148	19	.12	
5	573.07	496.7	-0.5	3,289	406	2,942	0	148	34	.22	
6	573.09	496.8	+0.1	3,540	420	2,901	0	148	23	.15	
7	573.16	497.1	+0.3	3,707	451	2,901	0	148	39	.25	
8	573.25	497.5	+0.4	3,818	463	2,964	0	148	26	.17	
9	573.21	497.3	-0.2	3,574	502	2,980	0	148	40	.26	
10	573.39	498.2	+0.9	3,965	499	2,861	0	148	23	.15	
11	573.57	499.1	+0.9	4,092	472	3,005	0	148	33	.21	
12	573.56	499.0	+0.0	4,087	514	3,412	0	148	37	.24	
13	573.26	497.6	-1.4	3,929	669	3,804	0	148	31	.20	
14	572.79	495.3	-2.2	3,960	770	4,125	0	148	48	.31	
15	572.57	494.3	-1.0	4,671	782	4,248	0	148	20	.13	
16	572.20	492.5	-1.8	4,132	762	4,069	0	148	40	.26	
17	571.88	491.0	-1.5	4,017	784	3,810	0	148	40	.26	
18	571.50	489.2	-1.8	3,925	795	3,850	0	148	38	.25	
19	571.24	488.0	-1.2	3,973	784	3,608	0	163	38	.25	
20	570.90	486.4	-1.6	3,440	854	3,170	0	181	44	.29	
21	570.49	484.5	-1.9	3,115	940	2,923	0	183	41	.27	
22	570.54	484.7	+0.2	4,057	957	2,748	0	184	50	.33	
23	570.54	484.7	+0.0	3,709	972	2,498	0	184	55	.36	
24	570.50	484.5	-0.2	3,352	991	2,185	0	184	87	.57	
25	570.48	484.4	-0.1	3,285	950	2,134	0	184	64	.42	
26	570.46	484.3	-0.1	3,417	981	2,261	0	184	38	.25	
27	570.45	484.3	+0.0	3,597	969	2,424	0	181	47	.31	
28	570.37	483.9	-0.4	3,522	978	2,506	0	179	49	.32	
29	569.87	481.5	-2.3	2,630	1,048	2,532	0	179	55	.36	
30	570.06	482.4	+0.9	4,220	1,062	2,445	0	182	81	.53	
31	571.74	490.4	+7.9	7,555	1,038	2,299	0	184	43	.28	
TOTALS			-11.2	117,200	22,664	93,909	0	5,015	1,260	8.21	1.10
ACRE-FEET			-11,201	232,466	44,954	186,269	0	9,947	2,499		

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 =	1.10
MADERA	TOTAL RELEASES	JULY 1, 2002 TO DATE =	11.85

Table 16

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

May 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-May-03	40,831	252	4,913	2,436	3,319	3,265	3,277	51,751	-2,336	602	854	246	6	27	1,724	1,472	52,364	39,407	52,364	2.8%	2.9%	4.4%
2-May-03	42,451	255	4,376	1,651	3,277	3,293	3,270	52,010	-2,336	641	858	252	34	38	1,754	1,479	52,591	43,403	52,478	2.8%	2.8%	4.2%
3-May-03	44,706	257	4,265	1,524	3,263	3,311	3,290	54,015	-3,427	643	857	255	34	43	1,764	1,485	55,678	47,518	53,544	2.7%	2.8%	4.0%
4-May-03	48,783	259	4,683	1,615	3,331	3,348	3,342	58,671	274	611	862	252	34	43	1,733	1,490	56,663	50,825	54,324	2.5%	2.7%	3.8%
5-May-03	53,502	261	4,340	2,083	3,498	3,366	3,365	63,684	274	618	858	262	25	43	1,755	1,483	61,655	53,940	55,790	2.3%	2.5%	3.5%
6-May-03	56,851	265	4,127	2,027	3,458	3,352	3,358	66,728	274	571	854	257	0	39	1,722	1,458	64,732	56,273	57,281	2.1%	2.3%	3.2%
7-May-03	59,304	268	3,901	1,833	3,318	3,337	3,337	68,624	324	648	857	258	21	43	1,785	1,469	66,515	58,600	58,600	2.2%	2.2%	3.0%
8-May-03	61,762	272	3,251	1,659	3,213	3,333	3,326	70,157	1,694	641	860	269	19	43	1,793	1,477	66,670	60,643	59,608	2.1%	2.1%	2.9%
9-May-03	62,394	275	0	1,620	3,251	3,338	3,323	67,540	2,200	643	855	280	10	43	1,810	1,501	63,530	62,206	60,044	2.2%	2.2%	2.7%
10-May-03	61,427	279	0	1,777	3,295	3,331	3,319	66,778	2,200	640	853	281	10	43	1,807	1,497	62,770	63,219	60,317	2.2%	2.2%	2.6%
11-May-03	58,880	282	0	1,547	3,285	3,316	3,326	63,994	2,250	626	854	279	10	46	1,795	1,490	59,950	63,689	60,283	2.3%	2.2%	2.5%
12-May-03	55,417	286	0	1,440	3,392	3,307	3,331	60,535	2,300	641	855	283	131	42	1,689	1,489	56,546	62,959	59,972	2.3%	2.3%	2.4%
13-May-03	51,050	282	0	1,434	3,392	3,294	3,323	56,158	2,300	0	732	282	83	49	980	1,236	52,877	61,265	59,426	1.2%	1.9%	1.9%
14-May-03	45,348	277	0	1,453	3,227	3,245	3,291	50,305	2,350	643	860	284	41	56	1,802	1,244	46,153	58,357	58,478	2.9%	2.1%	1.9%
15-May-03	39,955	273	0	1,499	2,875	3,160	3,249	44,602	2,350	645	859	283	76	64	1,776	1,246	40,476	54,615	57,278	3.2%	2.3%	2.0%
16-May-03	36,746	268	0	1,496	2,653	3,045	3,201	41,163	2,400	639	859	280	40	67	1,805	1,502	36,958	50,819	56,008	3.5%	3.2%	2.4%
17-May-03	35,355	264	0	1,487	2,488	2,909	3,150	39,594	2,450	650	860	287	0	79	1,875	1,504	35,268	46,890	54,788	3.8%	3.5%	2.5%
18-May-03	34,564	259	0	1,445	2,333	2,751	3,102	38,601	2,450	646	861	295	0	80	1,882	1,505	34,270	43,221	53,648	3.9%	3.7%	2.6%
19-May-03	33,875	255	0	1,391	2,289	2,604	3,063	37,810	2,500	646	1,447	294	104	86	2,368	1,703	32,942	39,849	52,558	5.3%	4.3%	3.0%
20-May-03	33,092	255	0	1,309	2,364	2,463	3,022	37,020	2,550	639	1,690	309	169	98	2,567	1,976	31,903	36,853	51,526	5.8%	5.0%	3.6%
21-May-03	32,184	254	0	1,245	2,239	2,354	2,979	35,922	2,550	536	1,690	315	53	106	2,594	2,216	30,778	34,657	50,538	6.1%	5.7%	4.2%
22-May-03	30,796	254	0	1,227	2,111	2,278	2,940	34,388	2,600	647	1,687	246	83	109	2,605	2,297	29,182	33,043	49,567	6.5%	6.1%	4.6%
23-May-03	29,307	253	0	1,217	2,121	2,218	2,902	32,898	2,650	648	1,690	153	74	107	2,525	2,300	27,723	31,724	48,617	6.9%	6.5%	4.9%
24-May-03	28,357	253	0	1,260	2,070	2,179	2,867	31,940	2,700	543	1,691	177	76	109	2,446	2,303	26,794	30,513	47,708	6.8%	6.7%	5.1%
25-May-03	27,123	252	0	1,277	2,059	2,149	2,835	30,711	2,750	590	1,692	175	76	99	2,481	2,285	25,480	29,258	46,819	7.2%	6.9%	5.4%
26-May-03	27,647	252	0	1,243	2,082	2,119	2,809	31,224	2,750	644	1,690	173	0	101	2,609	2,284	25,865	28,247	46,013	7.5%	7.1%	5.8%
27-May-03	28,091	250	0	1,191	2,151	2,091	2,781	31,683	2,800	647	1,745	183	229	99	2,445	2,336	26,438	27,466	45,288	6.8%	7.2%	6.0%
28-May-03	27,362	248	0	1,179	2,046	2,069	2,751	30,835	2,850	647	3,100	161	117	108	3,899	2,825	24,086	26,510	44,531	11.8%	8.7%	7.6%
29-May-03	26,861	246	0	1,331	1,952	2,058	2,727	30,390	2,900	2,695	3,619	186	69	92	6,523	4,151	20,967	25,336	43,718	20.5%	13.0%	11.6%
30-May-03	27,223	244	0	1,606	2,046	2,071	2,708	31,119	2,950	4,195	3,892	184	127	89	8,233	6,049	19,936	24,224	42,925	25.6%	19.3%	17.6%
31-May-03	28,158	242	0	2,026	2,162	2,089	2,691	32,588	3,000	6,673	4,386	193	126	97	11,222	8,486	18,366	23,020	42,133	33.5%	26.7%	25.1%
Total	1,269,402	8,092	33,856	47,528	84,560	87,043	96,254	1,443,438	53,541	30,497	45,324	7,631	1,873	2,189	83,769	67,235	1,306,127	1,368,548	1,636,171	197.2%	169.1%	157.1%
Average	40,948	261	1,092	1,533	2,728	2,808	3,105	46,563	1,727	984	1,462	246	60	71	2,702	2,169	42,133	44,147	1,636,171	6.4%	5.5%	5.1%

MAY 2003

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

RUN DATE: June 20, 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	
		1,818,676									
1	525.46	1,809,264	-9,412	862	5,896	144	0	+433	134	.34	.00
2	524.21	1,794,019	-15,245	0	7,879	113	0	+306	87	.22	.12
3	523.37	1,783,800	-10,219	0	5,289	107	0	+244	28	.07	.00
4	522.84	1,777,362	-6,438	0	3,076	123	0	-47	47	.12	.40
5	521.96	1,766,692	-10,670	0	5,138	124	0	-118	118	.30	.00
6	520.85	1,753,263	-13,429	0	6,508	130	0	-133	133	.34	.00
7	520.38	1,747,588	-5,675	0	2,683	137	0	-41	137	.35	.00
8	519.63	1,738,545	-9,043	0	4,356	156	0	-47	144	.37	.00
9	518.44	1,724,231	-14,314	0	7,133	162	0	+79	116	.30	.00
10	517.24	1,709,837	-14,394	0	7,260	165	0	+168	93	.24	.00
11	516.95	1,706,365	-3,472	0	1,507	173	0	-70	132	.34	.00
12	515.85	1,693,216	-13,149	0	6,574	172	0	+117	127	.33	.00
13	514.64	1,678,794	-14,422	0	7,160	184	0	+72	142	.37	.00
14	513.48	1,665,007	-13,787	0	6,833	198	0	+81	169	.44	.00
15	511.88	1,646,055	-18,952	0	9,483	198	0	+126	115	.31	.00
16	510.40	1,628,590	-17,465	0	8,716	186	0	+97	152	.40	.00
17	509.00	1,612,129	-16,461	0	8,292	192	0	+185	152	.40	.00
18	507.91	1,599,352	-12,777	0	6,402	191	0	+152	152	.40	.00
19	506.77	1,586,027	-13,325	0	6,666	181	0	+130	151	.40	.00
20	505.23	1,568,086	-17,941	0	9,005	198	0	+157	94	.25	.00
21	504.13	1,555,314	-12,772	0	6,046	213	0	-180	180	.48	.00
22	502.98	1,542,000	-13,314	0	6,324	213	0	-176	176	.47	.00
23	501.74	1,527,688	-14,312	0	6,811	211	0	-194	194	.52	.00
24	500.09	1,508,714	-18,974	0	9,122	207	0	-237	237	.64	.00
25	498.75	1,493,364	-15,350	0	7,720	193	0	+174	148	.40	.00
26	497.31	1,476,928	-16,436	0	8,231	159	0	+104	158	.43	.00
27	495.91	1,461,008	-15,920	0	7,398	185	0	-444	139	.38	.00
28	494.49	1,444,920	-16,088	0	8,093	228	0	+210	150	.41	.00
29	493.71	1,436,109	-8,811	0	4,132	218	0	-92	241	.66	.00
30	493.08	1,429,006	-7,103	0	3,498	214	0	+131	193	.53	.00
31	493.02	1,428,330	-676	0	0	163	0	-177	153	.42	.00
TOTALS			-390,346	862	193,231	5,438	0	+1,010	4,392	11.63	.52
ACRE-FEET			-390,346	1,710	383,274	10,786	0	+2,003	8,712		

SUMMARY

	RELEASE (ACRE-FEET)			PRECIPITATION	
POWER	383,274	SPILL	0	THIS MONTH =	.52
PACHECO TUNNEL	10,786	TOTAL	394,060	JULY 1, 2002 TO DATE =	9.15

MAY 2003

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

RUN DATE: June 20, 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		
		45,629									
1	220.60	44,714	-915	0	5,896	480	782	862	5,159		-35
2	222.48	49,660	+4,946	0	7,879	697	726	0	5,283		-74
3	222.32	49,235	-425	0	5,289	429	589	0	5,252		-91
4	221.00	45,760	-3,475	0	3,076	440	352	0	4,796		-120
5	221.70	47,598	+1,838	0	5,138	617	339	0	4,711		+222
6	222.60	49,980	+2,382	0	6,508	586	507	0	5,207		-178
7	220.94	45,603	-4,377	0	2,683	610	631	0	4,623		-246
8	220.60	44,714	-889	0	4,356	671	660	0	4,778		-37
9	221.73	47,677	+2,963	0	7,133	320	740	0	5,142		-77
10	222.48	49,660	+1,983	0	7,260	0	936	0	5,117		-208
11	219.16	40,991	-8,669	0	1,507	651	1,064	0	5,678		+213
12	220.34	44,036	+3,045	0	6,574	1,040	1,094	0	4,979		-6
13	220.60	44,714	+678	0	7,160	0	1,357	0	5,495		+35
14	219.71	42,402	-2,312	0	6,833	0	1,611	0	6,155		-233
15	220.41	44,218	+1,816	0	9,483	0	1,750	0	6,656		-161
16	220.64	44,818	+600	0	8,716	0	1,826	0	6,247		-341
17	220.17	43,593	-1,225	0	8,292	0	1,885	0	6,759		-266
18	219.69	42,351	-1,242	0	6,402	1,045	1,881	0	6,323		+130
19	220.20	43,671	+1,320	0	6,666	0	1,003	0	5,008		+11
20	221.84	47,966	+4,295	0	9,005	0	778	0	5,808		-253
21	221.20	46,285	-1,681	0	6,046	0	973	0	6,164		+244
22	220.50	44,453	-1,832	0	6,324	70	1,249	0	5,865		-202
23	220.30	43,931	-522	0	6,811	361	1,449	0	6,277		+291
24	220.70	44,975	+1,044	0	9,122	0	1,477	0	7,062		-56
25	219.83	42,712	-2,263	0	7,720	0	1,338	0	7,506		-17
26	219.94	42,997	+285	0	8,231	0	1,182	0	6,772		-133
27	219.72	42,428	-569	0	7,398	0	1,145	0	6,435		-105
28	220.21	43,697	+1,269	346	8,093	0	529	0	7,095		-175
29	219.51	41,887	-1,810	555	4,132	1,671	0	0	7,359		+89
30	219.02	40,635	-1,252	791	3,498	3,134	0	0	8,161		+107
31	218.89	40,305	-330	1,304	0	5,990	0	0	7,594		+134
TOTALS			-5,324	2,996	193,231	18,812	29,853	862	185,466		-1,538
ACRE-FEET			-5,324	5,943	383,274	37,314	59,213	1,710	367,872	0	-3,051

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

SUMMARY
RELEASE (ACRE-FEET)

O'NEILL GEN.	59,213	DOS AMIGOS PUMP	367,872
SAN LUIS PUMP	1,710	DELIVERIES	0
		TOTAL	428,795

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

Table 19

MAY 2003

FEDERAL-STATE OPERATIONS
 SAN LUIS UNIT

RUN DATE: June 20, 2003

DAY	AQUEDUCT CHECK 12			O'NEILL			SAN LUIS			SAN LUIS			PACHECO	DOS AMIGOS				
	STATE	FED	TOTAL	FED	STATE	TOTAL	FED	STATE	TOTAL	FED	STATE	TOTAL	PUMP	FED	STATE	TOTAL		
1	952	0	952	0	0	0	1,551	0	1,709	1,709	5,481	6,213	11,694	285	3,202	7,030	10,232	
2	1,383	0	1,383	0	0	0	1,441	0	0	0	6,029	9,599	15,628	224	3,283	7,195	10,478	
3	851	0	851	0	0	0	1,169	0	0	0	5,987	4,504	10,491	212	3,282	7,135	10,417	
4	872	0	872	0	0	0	698	0	0	0	0	6,101	6,101	244	3,142	6,370	9,512	
5	1,223	0	1,223	0	0	0	672	0	0	0	5,646	4,545	10,191	245	3,223	6,121	9,344	
6	1,162	0	1,162	0	0	0	1,006	0	0	0	5,572	7,336	12,908	257	3,197	7,131	10,328	
7	1,209	0	1,209	0	0	0	1,252	0	0	0	1,978	3,344	5,322	272	3,272	5,897	9,169	
8	1,331	0	1,331	0	0	0	1,309	0	0	0	4,980	3,660	8,640	310	3,278	6,200	9,478	
9	634	0	634	0	0	0	1,468	0	0	0	5,028	9,121	14,149	322	2,896	7,303	10,199	
10	0	0	0	0	0	0	1,856	0	0	0	6,782	7,619	14,401	327	2,893	7,257	10,150	
11	1,292	0	1,292	0	0	0	2,111	0	0	0	0	2,990	2,990	343	2,878	8,384	11,262	
12	2,063	0	2,063	0	0	0	2,169	0	0	0	7,577	5,462	13,039	342	2,872	7,004	9,876	
13	0	0	0	0	0	0	2,692	0	0	0	5,596	8,605	14,201	364	2,910	7,990	10,900	
14	0	0	0	0	0	0	3,195	0	0	0	5,621	7,933	13,554	393	2,798	9,410	12,208	
15	0	0	0	0	0	0	3,471	0	0	0	6,169	12,641	18,810	392	2,870	10,333	13,203	
16	0	0	0	0	0	0	3,622	0	0	0	7,747	9,542	17,289	369	2,826	9,564	12,390	
17	0	0	0	0	0	0	3,738	0	0	0	7,742	8,706	16,448	380	2,866	10,541	13,407	
18	2,073	0	2,073	0	0	0	3,730	0	0	0	4,783	7,916	12,699	379	2,856	9,686	12,542	
19	0	0	0	0	0	0	1,990	0	0	0	7,271	5,952	13,223	359	2,878	7,056	9,934	
20	0	0	0	0	0	0	1,543	0	0	0	7,380	10,481	17,861	392	2,886	8,635	11,521	
21	0	0	0	0	0	0	1,930	0	0	0	2,383	9,610	11,993	422	2,844	9,383	12,227	
22	138	0	138	0	0	0	2,478	0	0	0	3,650	8,893	12,543	422	2,828	8,806	11,634	
23	716	0	716	0	0	0	2,874	0	0	0	3,739	9,770	13,509	418	2,810	9,641	12,451	
24	0	0	0	0	0	0	2,930	0	0	0	7,769	10,324	18,093	411	2,821	11,186	14,007	
25	0	0	0	0	0	0	2,654	0	0	0	4,849	10,464	15,313	383	2,772	12,116	14,888	
26	0	0	0	0	0	0	2,344	0	0	0	4,874	11,452	16,326	316	2,807	10,626	13,433	
27	0	0	0	0	0	0	2,271	0	0	0	6,366	8,307	14,673	367	2,844	9,919	12,763	
28	0	0	0	687	0	687	1,050	0	0	0	3,487	12,566	16,053	452	2,402	11,671	14,073	
29	3,314	0	3,314	1,101	0	1,101	0	0	0	0	0	8,195	8,195	433	2,409	12,187	14,596	
30	6,216	0	6,216	1,568	0	1,568	0	0	0	0	0	6,939	6,939	424	2,336	13,851	16,187	
31	11,881	0	11,881	2,587	0	2,587	0	0	0	0	0	0	0	324	2,371	12,692	15,063	
TOTAL	37,310	0	37,310	5,943	0	5,943	59,214	0	1,709	1,709	383,276	144,486	383,276	10,783	2,371	12,692	367,872	
FEDERAL	0	0	0	5,943	0	5,943		0	0	0	144,486	144,486	144,486		2,371	12,692	89,552	
STATE	37,310	0	37,310	0	0	0		1,709	1,709	1,709	238,790	238,790	238,790				278,320	
																	XVC	0

COMMENTS: ALL VALUES IN ACRE-FEET

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

Table 20

MAY 2003

FEDERAL-STATE OPERATIONS

RUN DATE: June 20, 2003

DAY	TRACY PUMPING			CLIFT COURT TOTAL	DELTA PUMPING PLANT			FED BANKS XVC	STATE DOS AMIGOS BYRON			AQEDUCT CHECK 21			DMC-POOL DEMANDS
	FED	STATE	TOTAL		STATE	FED	TOTAL		AMIGOS XVC	BETHANY TOTAL	STATE	FED	TOTAL		
1	1,694	0	1,694	1,194	1,097	0	1,097	0	0	11	6,564	0	6,564	3,245	
2	1,701	0	1,701	1,272	1,227	0	1,227	0	0	67	8,021	0	8,021	3,142	
3	1,700	0	1,700	1,275	1,337	0	1,337	0	0	67	9,067	0	9,067	2,869	
4	1,709	0	1,709	1,211	1,337	0	1,337	0	0	67	9,594	0	9,594	2,407	
5	1,702	0	1,702	1,225	1,304	0	1,304	0	0	50	7,561	0	7,561	2,374	
6	1,694	0	1,694	1,133	1,305	0	1,305	0	0	0	7,887	0	7,887	2,700	
7	1,700	0	1,700	1,286	1,331	0	1,331	0	0	41	7,809	0	7,809	2,952	
8	1,705	0	1,705	1,271	1,255	0	1,255	0	0	37	8,354	0	8,354	3,014	
9	1,695	0	1,695	1,275	1,278	0	1,278	0	0	19	7,462	0	7,462	3,163	
10	1,692	0	1,692	1,269	24	0	24	0	0	20	7,972	0	7,972	3,548	
11	1,693	0	1,693	1,241	3,734	0	3,734	0	0	20	10,543	0	10,543	3,804	
12	1,695	0	1,695	1,271	2,427	0	2,427	0	0	259	7,443	0	7,443	3,864	
13	1,452	0	1,452	0	0	0	0	0	0	165	9,353	0	9,353	4,144	
14	1,706	0	1,706	1,276	617	0	617	0	0	81	8,742	0	8,742	4,901	
15	1,704	0	1,704	1,279	121	0	121	0	0	150	8,885	0	8,885	5,175	
16	1,703	0	1,703	1,268	438	0	438	0	0	79	9,581	0	9,581	5,325	
17	1,705	0	1,705	1,289	0	0	0	0	0	0	9,683	0	9,683	5,443	
18	1,707	0	1,707	1,281	3,493	0	3,493	0	0	0	10,605	0	10,605	5,437	
19	2,870	0	2,870	1,281	0	0	0	0	0	207	6,999	0	6,999	4,860	
20	3,352	0	3,352	1,268	181	0	181	0	0	336	8,277	0	8,277	4,895	
21	3,352	0	3,352	1,064	830	0	830	0	0	105	8,130	0	8,130	5,282	
22	3,347	0	3,347	1,283	1,247	0	1,247	0	0	165	8,574	0	8,574	5,825	
23	3,353	0	3,353	1,286	1,118	0	1,118	0	0	146	9,367	0	9,367	6,227	
24	3,355	0	3,355	1,078	498	0	498	0	0	150	10,062	0	10,062	6,285	
25	3,356	0	3,356	1,170	483	0	483	0	0	150	10,622	0	10,622	6,010	
26	3,353	0	3,353	1,278	460	0	460	0	0	0	10,317	0	10,317	5,697	
27	3,462	0	3,462	1,283	463	0	463	0	0	454	9,308	0	9,308	5,733	
28	6,148	0	6,148	1,284	643	0	643	0	0	232	9,779	0	9,779	6,511	
29	7,178	0	7,178	5,345	5,036	0	5,036	0	0	136	11,138	0	11,138	6,077	
30	7,719	0	7,719	8,320	7,682	0	7,682	0	0	251	10,821	0	10,821	6,151	
31	8,699	0	8,699	13,235	13,135	0	13,135	0	0	250	12,543	0	12,543	6,112	
TOTALS	89,901	0	89,901	60,491	54,101	0	54,101	0	0	3,715	281,063	0	281,063	143,172	

COMMENTS: ALL VALUES IN ACRE-FEET

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								0
Arvin-Edison WSD	1707	2374	0	20465	51429								75975
Atwell Island WD	0	0	0	0	0								0
Delano-Earlimart ID	0	2960	3771	7150	15362								29243
Exeter ID	0	10	79	136	679								904
City of Fresno	0	837	4	7	15								863
County of Fresno SA #34	4	3	20	15	48								90
Fresno ID	0	0	0	0	67								67
Garfield WD	0	0	61	174	278								513
Hills Valley ID	0	0	17	33	404								454
International WD	25	53	0	89	64								231
Ivanhoe ID	0	0	0	952	2513								3465
Kaweah Delta WCD	0	0	0	0	0								0
Kern County Water Agency	0	0	0	0	0								0
Kern-Tulare WD	0	0	1715	1734	978								4427
Lewis Creek WD	0	0	0	0	0								0
Lindmore ID	0	0	129	828	2989								3946
City of Lindsay	0	45	168	162	257								632
Lindsay-Strathmore ID	5	117	202	723	1944								2991
Lower Tule River ID	0	0	0	10194	35532								45726
North-Kern WSD	0	0	0	0	0								0
City of Orange Cove	70	71	86	100	145								472
Orange Cove ID	0	0	75	258	2910								3243
Pixley ID	0	0	0	2342	9571								11913
Porterville ID	0	0	0	1284	2518								3802
Rag Gulch WD	0	320	684	989	2690								4683
Rosedale Rio Bravo WSD	0	0	0	2582	21803								24385
Saucelito ID	0	321	1840	2232	4822								9215
Semitropic WSD	0	0	0	0	0								0
Shafter Wasco ID	541	5629	3670	3579	7988								21407
Southern San Joaquin MUD	0	5260	5151	7096	13274								30781
Smallwood Vineyards	0	0	33	62	72								167
Stone Corral ID	0	0	9	232	780								1021
Strathmore PUD	0	19	19	19	34								91
Styro Tek, Inc.	0	0	1	0	1								2
Tea Pot Dome WD	0	0	0	160	495								655
Terra Bella ID	0	0	125	449	1538								2112
Tri-Valley WD	0	0	0	0	25								25
Tulare ID	0	2692	0	11459	28428								42579
Total	2352	20711	17859	75505	209653	0	0	0	0	0	0	0	326080

* 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	15650								20506
Madera ID	0	0	0	4679	25629								30308
Soquel	0	0	0	0	0								0
Total	0	0	0	9535	41279	0	0	0	0	0	0	0	50814
MILLERTON LAKE													
County of Madera	1	2	3	3	5								14
Fresno County # 18	5	5	7	8	14								39
Gravelly Ford WD	0	2	345	1146	740								2233
Total	6	9	355	1157	759	0	0	0	0	0	0	0	2286

* 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	373								597
Broadview WD	1013	1646	930	480	661								4730
CCID (Abv CK 13)	240	139	1108	748	2222								4457
CCID (Blw CK 13)	0	1347	4429	664	9983								16423
Centinella WD	0	0	0	0	0								0
China Island (76.05)	0	1043	833	426	365								2667
Del Puerto WD	151	1735	3527	7750	11081								24244
DWR Intertie @MP7.70-R	0	0	0	0	0								0
Eagle Field WD	59	425	142	50	11								687
Firebaugh Canal	2202	5784	1170	454	924								10534
Frietas Unit (76.05L)	0	1078	1258	835	795								3966
Mercy Springs WD	0	156	57	249	136								598
Oro Loma WD	0	281	0	0	0								281
Panoche WD - Ag	422	660	351	232	303								1968
Panoche WD - M&I	2	3	2	3	2								12
Patterson WD	0	209	354	336	866								1765
Plainview WD	19	48	211	367	464								1109
Salt Slough Unit (76.05L)	0	926	992	723	1021								3662
San Luis WD - Ag	38	1841	812	818	797								4306
San Luis WD - M&I	1	1	3	3	12								20
Tracy, City of	104	361	571	720	958								2714
West Side ID	0	0	0	0	0								0
Widren	0	54	0	0	0								54
W. Stanislaus ID	0	556	1600	4081	4160								10397
F&G - Los Banos Ref. 76.05L	0	1068	1168	538	1044								3818
Volta Wildlife Mgmt Area (F&G)	109	17	127	195	330								778
Grasslands WD -76.05L	5851	3441	1085	725	7580								18682
Grasslands WD - Volta	1286	1253	1139	0	1406								5084
F&S (Volta) Santa Fee Kest.	0	0	0	0	0								0
F&S - Kesterson 76.05L	0	665	819	512	778								2774
Total DMC Deliveries	11497	24737	22688	21133	46272	0	0	0	0	0	0	0	126327
Oneill Net Pumped	222449	122252	167000	34494	(53271)								492924
DMC plus Oneill	233946	146989	189688	55627	(6999)	0	0	0	0	0	0	0	619251

* 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	244								791
Broadview WD	4	1	0	2	1								4
City of Coalinga	310	423	197	501	540								1661
City of Dos Palos	62	68	78	95	141								382
City of Huron	43	50	64	90	83								287
Pacheco WD	225	399	179	126	1								705
Pacheco CCID Non-project (Hamburg)	457	984	537	0	1174								3152
Panoche WD	3032	6457	3102	4068	4763								21422
San Luis WD	1677	5012	4798	5688	6803								23978
Westlands WD (Federal)	54952	72952	62666	74922	91722								357214
Phase I (Non-chargeable)	1	5	0	0	0								6
Fish & Game (Lateral 4)	1	0	1	1	2								5
Fish & Game (Lateral 6)	0	0	0	0	0								0
Total	60947	86517	71812	85684	105474	0	0	0	0	0	0	0	410434
O'NEILL FOREBAY DELIVERIES													
Oneill Forebay Wildlife	40	25	69	2	99								235
San Luis WD Ag	32	690	582	975	1202								3481
San Luis M&I	37	32	21	33	61								184
VA Cemetary	1	4	3	4	7								19
Total	110	751	675	1014	1369	0	0	0	0	0	0	0	3919
CROSS VALLEY CANAL													
County of Fresno	0	0	0	216	0								216
County of Tulare	0	0	0	383	0								383
Lower Tule River ID	0	0	0	0	0								0
Pixley ID	0	0	0	0	0								0
Kern-Tulare WD	0	0	0	1075	0								1075
Rag Gulch WD	0	0	0	358	0								358
Hills-Valey ID	0	0	0	242	0								242
Tri-Valley ID	0	0	0	82	0								82
Total	0	0	0	2356	0	0	0	0	0	0	0	0	2356
SAN FELIPE DIVISION													
Santa Clara	3970	1985	6652	9606	9644								31857
San Benito	254	1407	623	397	1139								3820
Total	4224	3392	7275	10003	10783	0	0	0	0	0	0	0	35677

* 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	5279								9004
Cortina WD	0	0	0	37	100								137
Davis WD	0	2	17	339	126								484
Dunnigan WD	8	22	133	455	1334								1952
4-M Water District	0	3	7	85	225								320
GCID	0	43	960	2135	3319								6457
Glenn Valley WD	0	0	0	0	32								32
Glide WD	0	8	9	269	2498								2784
Holthouse WD	0	7	24	109	329								469
Kanawha WD	3	27	146	737	2470								3383
Kirkwood WD	0	0	0	0	36								36
La Grande WD	0	0	0	624	1247								1871
Myers-Marsh MWC	0	0	25	47	149								221
Orland-Artois WD	14	120	29	518	6581								7262
Westside WD	0	40	453	2326	4180								6999
Total	98	392	2856	10160	27905	0	0	0	0	0	0	0	41411

Data supplied by Willows Field Division, Water and Land Division

Table 28

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

Water Users	Sacramento River												Total
	2003												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
A&F Boeger Corp & Thunder Farms	0	0	0	207	363								570
Anderson Cottonwood ID	0	0	0	6184	14829								21013
Andreotti, Arthur, et al	0	0	0	0	400								400
Baber, Jack, et	0	0	0	0	228								228
A&R Farms (Odysseus)	0	0	0	0	15								15
Cannel, Fred	0	0	0	0	10								10
Carter, Jane	0	0	0	0	142								142
Colusa Prop. Inc	0	0	0	0	10								10
Conaway Conservancy Group	0	0	0	0	3815								3815
Davis, Olive P, et al	0	0	0	1312	5674								6986
Deseret Farms of Calif	0	0	0	0	45								45
Dommer, Elizabeth	0	0	0	0	0								0
Forry, David G, et al	0	0	0	0	112								112
Forster, Rosemary	0	0	0	0	474								474
Furlan Joint Venture (Area #1)	0	0	0	0	0								0
Furlan Joint Venture (Area #2)	0	0	0	0	0								0
Glenn-Colusa ID	0	0	0	44780	126973								171753
Griffin, J, et al	0	0	0	0	429								429
Henle Family Limited Partnership	0	0	0	14	115								129
Hershey Land Co	0	0	0	0	100								100
Hiatt, Glenn	0	0	0	0	28								28
Hollins, Mariette B	0	0	0	7	194								201
Howald Farms	0	0	0	0	106								106
King, Barbara	0	0	0	0	0								0
Knaggs Walnut Ranches Co, L.P.	0	0	0	0	0								0
Lockett, William P.	0	0	0	0	0								0
Loma Cold Storage/J Micheli	0	0	0	18	1031								1049
M&T Inc.	0	0	0	0	862								862
MCM Properties, Inc	0	0	0	0	0								0
Maxwell ID	0	0	0	239	399								638
Meridan Farms WC	0	0	0	183	2959								3142
Natomas Central MWC	0	0	0	1290	12566								13856
O'Brien, Janice	0	0	0	0	87								87
Oji Bros. Farms Inc	0	0	0	129	346								475
Oji, Mitsue Family PTN	0	0	0	0	278								278
Pelger Mutual WC	0	0	0	98	1413								1511
Pleasant Grove-Verona MWC	0	0	0	0	1966								1966
Princeton,-Codora-Glenn ID	0	0	0	2992	11804								14796
Provident Irrigation District	0	0	0	3210	12461								15671
Reclamation Dist #108	0	0	0	2087	26250								28337
Reclamation Dist #1004	0	0	0	943	9726								10669
Reynen, John, et al	0	0	0	0	807								807
River Garden Farms	0	0	0	396	4160								4556
Roberts Ditch Irrigation Co	0	0	0	0	368								368
Sartain Mutual WC	0	0	0	0	276								276
Siddiqui, J & A & Siddiqui Family Plan	0	0	0	0	2								2
Spence, Ruth Ann	0	0	0	0	0								0
Sutter Mutual WC	0	0	0	3787	28891								32678
Swinford Tract Irrigation Co	0	0	0	0	0								0
Tarke, James, et al	0	0	0	0	184								184
Tisdale Irrigation & Drain	0	0	0	45	1096								1141
Wallace Construction, Inc.	0	0	0	0	0								0
Wells, Joyce M	0	0	0	8	210								218
Wilson Ranch Partnership	0	0	0	0	0								0
Windswept Land & Livestock Co.	0	0	0	0	75								75
Total	0	0	0	67929	272279								340208

* 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	13087							
At Keswick	13500	9498	4232	7639	16172							
At Bend Bridge	25382	13674	12271	12384	22852							
At Vina Bridge	38278	17020	11719	14887	26386							
At Ord Ferry	35335	15687	12185	14171	24485							
At Colusa	30523	17735	12519	13086	21861							
Below Wilkins Slough	24623	17618	12638	12632	18827							
At Verona	46013	29817	20277	19263	35128							
Sacramento at "I" Street	49929	33707	22335	20590	39805							
Miscellaneous Stations												
Folsom computed inflow	3942	3227	3683	5851	8030							
American R at Nimbus Dam	2626	4300	2019	2043	5621							
Kings River at Pine Flat	111	94	401	706	2069							
San Joaquin River												
At Friant Dam	104	103	114	146	162							
Near Vernalis	2211	2198	2191	2573	2569							
Putah Creek												
Berryessa computed inflow	1328	564	736	750	473							
Putah Creek - Lake Solano	26	195	337	281	481							
Stanislaus River												
New Melones computed inflow	1068	962	1143	1710	2529							
At Tulloch Dam	305	533	1123	1697	1941							
At Orange Blossom	212	539	454	726	695							

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