

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

**CENTRAL VALLEY OPERATIONS OFFICE**

**REPORT OF OPERATIONS**



October 2003

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## SUMMARY OF OCTOBER 2003 OPERATIONS

Sacramento had an average monthly temperature of 68.6 °F which was 2.2 °F above normal. The average temperature at Shasta Dam was 70.7 °F which was 5.6 °F above normal and Huntington Lake was 7.8 °F above normal with an average temperature of 55.8 °F.

Trinity System: Storage in Trinity Lake decreased 152,000 acre-feet this month to 1,729,100 acre-feet, which is 71 percent of capacity and 120 percent of the 15 year average for this date. The total inflow for the month was 6,020 acre-feet. The Trinity River release ranged between 300 to 450 ft<sup>3</sup>/s. Whiskeytown Lake was operated between elevations 1208.29 feet and 1209.18 feet with an end-of-month storage of 235,600 acre-feet. The releases to Clear Creek from Whiskeytown Dam were 200 ft<sup>3</sup>/s. Total diversion from the Trinity River to the Sacramento River watershed for the month was 131,002 acre-feet.

Shasta-Keswick: Storage in Shasta Lake decreased 68,600 acre-feet for an end-of-month storage of 3,090,900 acre-feet, which is 68 percent of capacity and 123 percent of the 15 year average. The total inflow for the month was 210,792 acre-feet. The release to the Sacramento River at Keswick ranged between 6,500 and 7,000 ft<sup>3</sup>/s for the month.

Folsom-Nimbus: Storage in Folsom Lake decreased 96,400 acre-feet and had an end-of-month storage of 561,900 acre-feet, which is 58 percent of capacity and 130 percent of the 15 year average for this date. The total inflow for the month was 51,880 acre-feet. The release to the American River at Nimbus ranged between 1,750 and 2,500 ft<sup>3</sup>/s during the month.

New Melones: Storage in New Melones decreased 14,200 acre-feet for an end-of-month storage of 1,266,000 acre-feet or 52 percent of capacity and 107 percent of the 15 year average. The release to the Stanislaus River at Goodwin Dam ranged between 200 to 975 ft<sup>3</sup>/s for the month. The total inflow for the month was 24,347 acre-feet.

Delta-San Luis: Federal storage in San Luis Reservoir on October 31, 2003, was 355,000 acre-feet compared to the storage a year ago of 412,000 acre-feet.

Friant: Storage in Millerton Lake decreased 3,998 acre-feet to 211,000 acre-feet. The total monthly inflow was 76,781 acre-feet. The release to the San Joaquin River at Friant varied between 189 and 220 ft<sup>3</sup>/s.

CVP Totals: The total diversions to CVP canals were 351,434 acre-feet. The October 31, 2003, storage in the 18 CVP reservoirs was 7,003,000 acre-feet compared to storage 1 year ago of 5,977,000 acre-feet.

Power: Gross power production for the CVP totaled 369,710,300 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	10/31/03	10/31/02	WATERSHED	RESERVOIR	TOTAL CAPACITY	10/31/03	10/31/02
KLAMATH	CLEAR LAKE *	526,800	NA	103,570	AMERICAN	FOLSOM LAKE *CVP	1,010,300	561,870	456,770
	GERBER *	94,300	13,750	13,570		LAKE NATOMA *CVP	9,030	8,330	8,210
	UPR KLAMATH LK *	873,300	NA	152,610	COSUMNES	JENKINSON LK *CVP	41,000	29,990	27,250
TRINITY	CLAIR ENGLE LK*CVP	2,447,700	1,729,050	1,405,720	MOKELUMNE	CAMANCHE	431,500	289,310	250,020
	LEWISTON LAKE*CVP	14,660	13,920	14,020		PARDEE	210,000	169,170	170,230
	WHISKEYTOWN *CVP	241,100	235,640	216,110	SALT SPRINGS	140,000	67,210	68,240	
MCCLOUD	MCCLOUD DIV. RES	35,230	24,480	22,230	CALAVERAS	NEW HOGAN	317,100	100,580	124,120
PIT	IRON CANYON	24,240	16,160	13,410		NEW MELONES*CVP	2,420,000	1,265,990	1,287,850
	LAKE BRITTON	40,620	34,580	35,450		BEARDSLEY	97,800	75,520	55,450
	PIT NO. 6	15,890	13,830	14,400	STANISLAUS	DONNELLS	64,320	23,300	10,700
SACRAMENTO	PIT NO. 7	34,610	33,170	32,850	TULLOCH	67,000	56,060	55,420	
	SHASTA LAKE *CVP	4,552,000	3,090,890	2,414,070	LAKE ELEANOR	26,100	19,060	21,130	
	SPRING CREEK *CVP	5,900	890	800		LAKE LLOYD	268,000	219,040	204,680
	LEWISTON LAKE *CVP	23,800	22,170	22,040	TUOLUMNE	HETCH-HETCHY	360,400	256,440	242,470
RED BLUFF DIV *CVP	3,920	350	380	NEW DON PEDRO		2,030,000	1,441,070	1,214,790	
FEATHER	OROVILLE	3,538,000	2,186,000	1,280,300	TURLOCK LAKE	49,000	19,800	13,240	
	THERMALITO DIV RES	13,500	12,520	11,330	MERCED	EXCHEQUER	1,024,600	393,950	286,510
	THERMALITO FORE.	14,400	74,590	94,660	CHOWCHILLA	BUCHANAN	150,000	17,220	10,090
	THERMALITO AFTER.	57,000	19,750	27,720		CRANE VALLEY	45,400	22,930	21,590
LAKE ALMANOR	1,143,000	831,160	717,714	LAKE T.A. EDISON	125,000	51,520	47,920		
STONY CREEK	EAST PARK *	50,900	43,000	7,170	FLORENCE LAKE	64,600	1,050	1,000	
	STONY GORGE *	50,000	32,390	18,230	SAN JOAQUIN	MAMMOTH POOL	122,700	22,220	20,050
	BLACK BUTTE *CVP	143,700	31,500	23,480		HUNTINGTON LAKE	89,800	64,730	59,600
PUTAH CREEK	LAKE BERRYESSA *	1,602,300	1,410,700	1,266,250	REDINGER LAKE	35,000	12,730	24,080	
	LAKE SOLANO *	720	680	640	SHAVER LAKE	135,400	124,550	108,420	
YUBA	BULLARDS BAR	930,000	607,110	496,270	MILLERTON LK *CVP	520,500	211,030	218,570	
	SO. YUBA SYSTEM	146,000	76,810	45,550	FRESNO	HIDDEN	90,000	9,520	10,200
NARROWS	70,000	65,600	68,030	SAN LUIS **CVP		2,040,600	961,980	649,730	
BEAR	ROLLINS	65,990	42,810	50,520		O'NEILL FORE.**CVP	56,400	43,390	47,390
LITTLE TRUCKEE	STAMPEDE *	226,620	137,400	109,100	SAN LUIS	L BANOS RES**CVP	34,560	18,900	18,690
	BOCA *	41,140	17,060	10,900		LT PANOCHE **CVP	5,580	660	680
PROSSER	PROSSER CREEK *	29,840	10,000	8,800	OIL CANYON	CONTRA LOMA *CVP	2,100	2,060	2,060
TRUCKEE	LAKE TAHOE *	732,000	23,100	13,300	KINGS	WISHON	128,300	61,700	68,830
	RYE PATCH *	190,000	10,400	10,300		PINE FLAT	1,001,500	153,320	143,680
HUMBOLDT					KAWEAH	TERMINUS	143,000	5,660	8,850
CARSON	LAHONTAN *	317,280	80,800	72,300	TULE	SUCCESS	82,300	4,440	4,260
	TWIN LAKES	21,600	17,470	17,060	KERN	ISABELLA	588,100	150,160	82,340
	FRENCH MEADOWS	136,400	77,700	173,940	CUYAMA	TWITCHHELL *	240,100	NA	5,160
AMERICAN	HELL HOLE	207,590	134,520	124,950	SANTA YNEZ	LAKE CACHUMA *	190,500	111,670	125,060
	LOON LAKE	76,500	37,870	59,440	COYOTE	LAKE CASITAS *	254,000	181,210	190,056
	ICE HOUSE	46,000	30,550	31,970	<b>Total - 85 Reservoirs</b>	<b>33,790,040</b>	<b>18,668,790</b>	<b>15,727,530</b>	
	UNION VALLEY	277,300	182,530	146,880	<b>Total - 36 USBR Reservoirs</b>	<b>18,992,650</b>	<b>10,300,770</b>	<b>8,920,836</b>	
	SLAB CREEK	16,600	16,550	14,110	<b>Total - 18 CVP Reservoirs</b>	<b>13,572,850</b>	<b>8,228,610</b>	<b>6,813,820</b>	

\*\* - Joint State-Federal Reservoir

\* - USBR Reservoir

CVP - Central Valley Project

NR - Not Reported

## Plant Generation and Energy Summary for 2003

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
<b><u>Generation in mwh</u></b>													
<b>Shasta</b>													
Gross	278597	175909	62560	134213	310672	282701	315692	189329	115826	103888			1,969,387
Net	278111	175634	62415	134148	310579	282579	315526	189193	115680	103567			1,967,432
<b>Keswick</b>													
Gross	55128	38974	19917	28206	57454	54658	57746	44195	32516	28884			417,678
Net	54975	38787	19787	27923	57320	54532	57618	44069	32390	28755			416,156
<b>Trinity</b>													
Gross	5793	30013	31356	18379	86019	87879	64914	76896	72894	55472			529,615
Net	5503	29837	31166	18200	85820	87748	64799	76768	72776	55374			527,991
<b>JF Carr</b>													
Gross	1299	36119	33295	15518	44017	56560	50310	78288	74465	66867			456,738
Net	1158	35993	33208	15440	43866	56446	50222	78180	74366	66775			455,654
<b>Spring Creek PP</b>													
Gross	40240	41694	45430	23752	58145	55387	47246	77681	70514	63000			523,089
Net	40073	41552	45293	23628	58003	55259	47132	77546	70398	62891			521,775
<b>Folsom</b>													
Gross	43899	62787	32736	34784	96407	72312	62073	48396	30638	34378			518,410
Net	43692	62621	32554	34616	96234	72107	61880	48226	30448	34203			516,581
<b>Nimbus</b>													
Gross	5709	7685	4185	4071	9870	7518	7110	5682	3785	4316			59,931
Net	5668	7644	4142	4049	9851	7494	7099	5666	3764	4299			59,676
<b>New Melones</b>													
Gross	6308	12196	30784	44387	52957	67830	55169	46551	27630	12905			356,717
Net	6213	12101	30680	44253	52813	67671	55018	46412	27508	12784			355,453
<b>O'Neill</b>													
Gross	0	0	0	523	2016	102	501	144	0	0			3,286
Net	0	0	0	435	2022	7	308	30	0	0			2,802
<b>Fed San Luis</b>													
Out Meter	0	0	0	17820	0	14257	44089	19588	1288	0			97,042
<b>Gross Generation</b>	436,973	405,377	260,263	321,653	717,557	699,204	704,850	586,750	429,556	369,710	0	0	4,931,893
<b>Net Generation</b>	435,393	404,169	259,245	320,512	716,508	698,100	703,691	585,678	428,618	368,648	0	0	4,920,562
<b>Stampede (Gross)</b>													
	398	1,075	312	2,045	2,311	949	1,579	501	583	347			10,100
<b>Stampede (Net)</b>	371	1,046	288	2,016	2,290	939	1,565	486	564	329			9,894
<b><u>Energy in mwh</u></b>													
<b>Tracy</b>													
Tot Energy	61295	54825	61731	24949	20517	60303	59314	61633	57853	61126			523,546
Fed Off-Pk	29012	25474	29228	12274	9188	28879	28189	29372	27872	28085			247,573
<b>O'Neill</b>													
Tot Energy	12985	7203	9849	2869	341	2668	501	2840	4537	7786			51,579
Fed Off-Pk	6183	3393	4698	1381	117	1336	256	1420	2293	3582			24,659
<b>San Luis</b>													
Fed Energy	61979	32737	54490	2299	36	124	132	991	14244	23058			190,090
Fed Off-Pk	60284	32707	54415	2224	36	79	102	991	14169	22953			187,960
<b>Dos Amigos</b>													
Fed Energy	6543	12352	10650	12771	12180	15096	32814	22662	8115	7661			140,844
Fed Off-Pk	5295	8316	7635	8190	8475	9771	18384	13482	6105	6131			91,784
<b>Banks - Fed</b>													
Fed Energy	0	0	0	0	0	0	0	0	1664	0			1,664
Fed Off-Pk	0	0	0	0	0	0	0	0	104	0			104
<b>Total Energy</b>	142,802	107,117	136,720	42,888	33,074	78,191	92,761	88,126	86,413	99,631	0	0	907,723
<b>Total Fed Off-Pk</b>	100,774	69,890	95,976	24,069	17,816	40,065	46,931	45,265	50,543	60,751	0	0	552,080

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

**OCTOBER 2003**

**SHASTA LAKE DAILY OPERATIONS**

RUN DATE: March 12, 2004

DAY	ELEV	STORAGE		COMPUTED* INFLOW C.F.S.	RELEASE - C.F.S.			EVAPORATION C.F.S.	PRECIP INCHES	
		1000 ACRE-Feet IN LAKE	CHANGE		POWER	RIVER SPILL	OUTLET			
		3,159.4								
1	1,014.58	3,158.0	-1.4	3,401	3,931	0	0	179	.26	.00
2	1,014.50	3,156.1	-1.9	3,416	4,224	0	0	138	.20	.00
3	1,014.39	3,153.5	-2.6	2,564	3,693	0	0	172	.25	.00
4	1,014.33	3,152.1	-1.4	3,673	4,210	0	0	172	.25	.00
5	1,014.27	3,150.7	-1.4	3,420	3,971	0	0	158	.23	.00
6	1,014.25	3,150.2	-0.5	4,045	4,157	0	0	124	.18	.00
7	1,014.22	3,149.5	-0.7	3,638	3,828	0	0	165	.24	.00
8	1,014.21	3,149.3	-0.2	3,698	3,692	0	0	124	.18	.00
9	1,014.18	3,148.6	-0.7	3,196	3,448	0	0	103	.15	.00
10	1,014.16	3,148.1	-0.5	3,516	3,649	0	0	103	.15	.00
11	1,014.18	3,148.6	+0.5	4,401	3,917	0	0	248	.36	.00
12	1,014.21	3,149.3	+0.7	4,138	3,666	0	0	117	.17	.00
13	1,014.20	3,149.1	-0.2	3,500	3,467	0	0	151	.22	.00
14	1,014.21	3,149.3	+0.2	3,763	3,473	0	0	172	.25	.00
15	1,014.05	3,145.5	-3.8	3,113	4,902	0	0	103	.15	.00
16	1,013.92	3,142.5	-3.0	3,313	4,743	0	0	103	.15	.00
17	1,013.83	3,140.4	-2.1	3,854	4,831	0	0	82	.12	.00
18	1,013.52	3,133.2	-7.2	1,106	4,623	0	0	130	.19	.00
19	1,013.51	3,132.9	-0.2	3,605	3,626	0	0	96	.14	.00
20	1,013.49	3,132.5	-0.5	3,619	3,751	0	0	103	.15	.00
21	1,013.50	3,132.7	+0.2	3,843	3,622	0	0	103	.15	.00
22	1,013.50	3,132.7	+0.0	4,117	4,014	0	0	103	.15	.00
23	1,013.37	3,129.7	-3.0	2,785	4,198	0	0	117	.17	.00
24	1,013.26	3,127.1	-2.6	2,400	3,536	0	0	158	.23	.00
25	1,013.12	3,123.8	-3.3	2,470	3,912	0	0	205	.30	.00
26	1,013.04	3,122.0	-1.9	3,568	4,304	0	0	205	.30	.00
27	1,012.80	3,116.4	-5.6	3,655	6,261	0	0	205	.30	.00
28	1,012.56	3,110.8	-5.6	4,086	6,690	0	0	205	.30	.00
29	1,012.25	3,103.6	-7.2	3,186	6,712	0	0	102	.15	.00
30	1,011.99	3,097.6	-6.0	3,597	6,537	0	0	102	.15	.00
31	1,011.70	3,090.9	-6.7	3,587	6,827	0	0	136	.20	.00
<b>TOTALS</b>			<b>-68.6</b>	<b>106,273</b>	<b>136,415</b>	<b>0</b>	<b>0</b>	<b>4,384</b>	<b>6.39</b>	<b>.00</b>
<b>ACRE-Feet</b>			<b>-68,600</b>	<b>210,792</b>	<b>270,579</b>	<b>0</b>	<b>0</b>	<b>8,696</b>		

COMMENTS:

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

**SUMMARY**

	RELEASE (ACRE-Feet)			PRECIPITATION	
POWER	270,579	OUTLET	0	THIS MONTH =	.00
SPILL	0	TOTAL	270,579	JULY 1, 2003 TO DATE =	1.72

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

OCTOBER 2003

**TRINITY LAKE DAILY OPERATIONS**

RUN DATE: March 12, 2004

DAY	ELEV	STORAGE		COMPUTED* INFLOW C.F.S.	POWER	RELEASE - C.F.S.		EVAPORATION		PRECIP INCHES (1)
		1000 ACRE-FEET IN LAKE	CHANGE			SPILL	OUTLET	C.F.S.	INCHES (1)	
		1,881.2								
1	2,332.09	1,874.4	-6.8	7	3,387	0	0	53	.13	.00
2	2,331.62	1,867.9	-6.5	126	3,344	0	0	61	.15	.00
3	2,331.20	1,862.1	-5.8	231	3,098	0	0	61	.15	.00
4	2,330.80	1,856.6	-5.5	163	2,899	0	0	45	.11	.00
5	2,330.34	1,850.2	-6.3	184	3,304	0	0	69	.17	.00
6	2,329.89	1,844.1	-6.2	155	3,198	0	0	73	.18	.00
7	2,329.45	1,838.0	-6.0	172	3,140	0	0	68	.17	.00
8	2,328.98	1,831.6	-6.4	5	3,175	0	0	72	.18	.00
9	2,328.53	1,825.5	-6.1	108	3,136	0	0	64	.16	.00
10	2,328.05	1,818.9	-6.5	45	3,262	0	8	72	.18	.00
11	2,327.58	1,812.6	-6.4	166	3,342	0	0	40	.10	.00
12	2,327.16	1,806.9	-5.7	63	2,896	0	0	40	.10	.00
13	2,326.71	1,800.8	-6.1	246	3,262	0	0	52	.13	.00
14	2,326.26	1,794.7	-6.1	185	3,196	0	9	44	.11	.00
15	2,325.90	1,789.8	-4.9	6	2,410	0	0	44	.11	.00
16	2,325.64	1,786.3	-3.5	92	1,823	0	0	32	.08	.00
17	2,325.37	1,782.7	-3.6	207	1,997	0	0	40	.10	.00
18	2,325.09	1,779.0	-3.8	51	1,913	0	0	36	.09	.00
19	2,324.72	1,774.0	-5.0	564	3,021	0	0	43	.11	.00
20	2,324.30	1,768.4	-5.6	226	3,005	0	0	55	.14	.00
21	2,323.87	1,762.6	-5.7	289	3,124	0	24	39	.10	.00
22	2,323.42	1,756.6	-6.0	8	2,984	0	0	47	.12	.00
23	2,323.04	1,751.6	-5.1	62	2,580	0	0	35	.09	.00
24	2,322.60	1,745.7	-5.8	270	3,175	0	0	39	.10	.00
25	2,322.16	1,739.9	-5.8	293	3,205	0	0	31	.08	.00
26	2,321.75	1,734.5	-5.4	-69	2,603	0	0	62	.16	.00
27	2,321.61	1,732.6	-1.8	-566	327	0	0	39	.10	.00
28	2,321.57	1,732.1	-0.5	207	14	0	428	31	.08	.00
29	2,321.48	1,730.9	-1.2	-257	14	0	285	43	.11	.00
30	2,321.40	1,729.8	-1.1	-117	14	0	347	54	.14	.00
31	2,321.34	1,729.1	-0.8	-87	14	0	240	58	.15	.00
<b>TOTALS</b>			<b>-152.0</b>	<b>3,035</b>	<b>76,862</b>	<b>0</b>	<b>1,341</b>	<b>1,542</b>	<b>3.88</b>	<b>.00</b>
<b>ACRE-FEET</b>			<b>-152,000</b>	<b>6,020</b>	<b>152,456</b>	<b>0</b>	<b>2,660</b>	<b>3,059</b>		

COMMENTS:

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

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

**SUMMARY**

POWER	152,456	OUTLET	2,660	PRECIPITATION	
SPILL	0	TOTAL	155,116	THIS MONTH =	.00
				JULY 1, 2003 TO DATE =	1.69

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

OCTOBER 2003

WHISKEYTOWN LAKE DAILY OPERATIONS

RUN DATE: March 12, 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. — TO CLEAR CR — (1) OUTLETS	SPILL	TO SPRING CR. PP	EVAP. C.F.S. INCHES	PRECIP INCHES		
		237.6										
1	1,209.07	238.1	+0.5	2,994	2,845	149	200	0	2,523	14	.15	.00
2	1,209.08	238.2	+0.0	2,798	2,666	132	200	0	2,568	14	.15	.00
3	1,208.96	237.8	-0.4	2,556	2,441	115	200	0	2,535	14	.15	.00
4	1,209.03	238.0	+0.2	2,841	2,711	130	200	0	2,515	14	.15	.00
5	1,209.07	238.1	+0.1	2,826	2,727	99	200	0	2,548	13	.14	.00
6	1,209.16	238.4	+0.3	2,879	2,812	67	200	0	2,520	14	.15	.00
7	1,209.08	238.2	-0.3	2,587	2,563	24	200	0	2,504	12	.13	.00
8	1,209.09	238.2	+0.0	2,736	2,683	53	200	0	2,505	15	.16	.00
9	1,209.05	238.1	-0.1	2,679	2,656	23	200	0	2,530	14	.15	.00
10	1,209.02	238.0	-0.1	2,670	2,619	51	200	0	2,505	13	.14	.00
11	1,209.11	238.2	+0.3	2,844	2,807	37	200	0	2,487	12	.13	.00
12	1,209.05	238.1	-0.2	2,572	2,510	62	200	0	2,458	11	.12	.00
13	1,209.08	238.2	+0.1	2,819	2,767	52	200	0	2,561	10	.11	.00
14	1,209.13	238.3	+0.2	2,820	2,768	52	200	0	2,522	17	.18	.00
15	1,209.18	238.5	+0.2	1,735	1,723	12	200	0	1,440	14	.15	.00
16	1,209.14	238.3	-0.1	1,675	1,682	-7	200	0	1,533	7	.07	.00
17	1,209.06	238.1	-0.3	1,621	1,640	-19	200	0	1,542	8	.08	.00
18	1,209.05	238.1	+0.0	1,704	1,681	23	200	0	1,510	10	.11	.00
19	1,209.05	238.1	+0.0	2,752	2,720	32	200	0	2,544	8	.09	.00
20	1,209.11	238.2	+0.2	2,847	2,796	51	200	0	2,542	8	.09	.00
21	1,209.16	238.4	+0.2	2,811	2,784	27	200	0	2,521	9	.10	.00
22	1,209.16	238.4	+0.0	2,727	2,617	110	200	0	2,517	10	.11	.00
23	1,208.96	237.8	-0.6	2,413	2,310	103	200	0	2,530	5	.05	.00
24	1,209.04	238.0	+0.3	2,846	2,700	146	200	0	2,506	11	.12	.00
25	1,209.06	238.1	+0.1	2,756	2,626	130	200	0	2,511	13	.14	.00
26	1,208.98	237.8	-0.3	2,626	2,594	32	208	0	2,536	11	.12	.00
27	1,208.82	237.3	-0.5	55	126	-71	200	0	97	14	.15	.00
28	1,208.70	236.9	-0.4	38	118	-80	200	0	16	14	.15	.00
29	1,208.54	236.4	-0.5	-35	118	-153	200	0	15	7	.07	.00
30	1,208.42	236.1	-0.4	34	118	-84	200	0	14	12	.13	.00
31	1,208.29	235.6	-0.4	71	118	-47	200	0	75	4	.04	.00
<b>TOTALS</b>			<b>-1.9</b>	<b>67,297</b>	<b>66,046</b>	<b>1,251</b>	<b>6,208</b>	<b>0</b>	<b>61,730</b>	<b>352</b>	<b>3.78</b>	<b>.00</b>
<b>ACRE-FEET</b>			<b>-1.9</b>	<b>133,484</b>	<b>131,002</b>	<b>2,481</b>	<b>12,314</b>	<b>0</b>	<b>122,441</b>	<b>698</b>		

\* 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	122,441	OUTLET	12,314	THIS MONTH	.00
SPILL	0	TOTAL	134,755	JULY 1, 2003 TO DATE	1.09



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

Table 6

OCTOBER 2003

LEWISTON LAKE DAILY OPERATIONS

RUN DATE: November 24, 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
		13,904								
1	1,900.95	13,874	-30	3,284	80	90	280	2,845	4	.18
2	1,901.46	14,255	+381	3,311	80	90	280	2,666	3	.15
3	1,901.86	14,554	+299	3,045	80	90	280	2,441	3	.15
4	1,901.11	13,993	-561	2,880	80	90	280	2,711	2	.11
5	1,901.42	14,225	+232	3,298	80	90	280	2,727	4	.17
6	1,901.26	14,105	-120	3,206	80	90	280	2,812	4	.18
7	1,901.60	14,360	+255	3,146	80	81	289	2,563	4	.17
8	1,901.14	14,016	-344	2,964	80	70	300	2,683	4	.18
9	1,901.16	14,031	+15	3,117	80	70	300	2,656	3	.16
10	1,901.24	14,091	+60	3,103	80	70	300	2,619	4	.18
11	1,901.46	14,255	+164	3,342	80	70	300	2,807	2	.10
12	1,901.31	14,143	-112	2,906	80	70	300	2,510	2	.10
13	1,901.50	14,285	+142	3,292	80	70	300	2,767	3	.13
14	1,901.48	14,270	-15	3,212	80	70	300	2,768	2	.11
15	1,901.48	14,270	+0	2,175	80	70	300	1,723	2	.11
16	1,901.20	14,061	-209	1,895	80	70	166	1,682	2	.08
17	1,901.53	14,307	+246	2,066	80	70	150	1,640	2	.10
18	1,901.44	14,240	-67	1,949	80	70	150	1,681	2	.09
19	1,901.45	14,248	+8	3,026	80	70	150	2,720	2	.11
20	1,901.25	14,098	-150	3,023	80	70	150	2,796	3	.14
21	1,901.44	14,240	+142	3,158	80	70	150	2,784	2	.10
22	1,901.31	14,143	-97	2,870	80	70	150	2,617	2	.10
23	1,901.05	13,948	-195	2,514	80	82	138	2,310	2	.09
24	1,901.21	14,068	+120	3,062	80	90	130	2,700	2	.10
25	1,901.75	14,472	+404	3,132	80	90	130	2,626	2	.08
26	1,900.99	13,904	-568	2,623	83	94	135	2,594	3	.16
27	1,900.89	13,830	-74	391	80	90	130	126	2	.10
28	1,901.24	14,091	+261	552	80	90	130	118	2	.10
29	1,901.15	14,023	-68	386	80	90	130	118	2	.11
30	1,901.25	14,098	+75	449	80	80	130	118	3	.14
31	1,901.01	13,918	-180	330	80	90	130	118	3	.15
<b>TOTALS</b>			<b>+14</b>	<b>77,707</b>	<b>2,483</b>	<b>2,467</b>	<b>6,618</b>	<b>66,046</b>	<b>82</b>	<b>3.93</b>
<b>ACRE-FEET</b>			<b>+14</b>	<b>154,132</b>	<b>4,925</b>	<b>4,893</b>	<b>13,127</b>	<b>131,002</b>	<b>163</b>	

\* 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	4,925	JUDGE FRANCIS CARR POWERPLANT	131,002
TOTAL RIVER	22,945	TOTAL RELEASE	153,947

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

**Table 7**

**OCTOBER 2003**

**SPRING CREEK DEBRIS RESERVOIR DAILY OPERATIONS**

RUN DATE: November 24, 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	
		773							
1	707.01	777	+4	2	0	0			
2	707.20	783	+6	3	0	0			
3	707.36	787	+4	2	0	0			
4	707.53	792	+5	3	0	0			
5	707.69	796	+4	2	0	0			
6	707.84	801	+5	3	0	0			
7	707.97	804	+3	2	0	0			
8	708.11	808	+4	2	0	0			
9	708.24	812	+4	2	0	0			
10	708.36	815	+3	2	0	0			
11	708.49	819	+4	2	0	0			
12	708.62	822	+3	2	0	0			
13	708.76	826	+4	2	0	0			
14	708.88	830	+4	2	0	0			
15	709.00	833	+3	2	0	0			
16	709.14	837	+4	2	0	0			
17	709.26	840	+3	2	0	0			
18	709.39	844	+4	2	0	0			
19	709.51	847	+3	2	0	0			
20	709.63	851	+4	2	0	0			
21	709.75	854	+3	2	0	0			
22	709.89	858	+4	2	0	0			
23	709.92	859	+1	1	0	0			
24	709.92	859	+0	0	0	0			
25	709.92	859	+0	0	0	0			
26	709.92	859	+0	0	0	0			
27	709.92	859	+0	0	0	0			
28	710.53	877	+18	9	0	0			
29	710.63	880	+3	2	0	0			
30	710.70	882	+2	1	0	0			
31	710.83	886	+4	2	0	0			
<b>TOTALS</b>			<b>+113</b>	<b>62</b>	<b>0</b>	<b>0</b>			
<b>ACRE-FEET</b>			<b>+113</b>	<b>123</b>	<b>0</b>	<b>0</b>			

COMMENTS:

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

**SUMMARY**

RELEASE (ACRE-FEET)	
SPILL	0
OUTLET	0
TOTAL	0

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

Table 8

OCTOBER 2003

KESWICK RESERVOIR DAILY OPERATIONS

RUN DATE: November 24, 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)
		21,781								
1	583.37	21,508	-273	6,890	2,523	3,931	7,023	0	0	5
2	584.01	21,896	+388	7,219	2,568	4,224	7,019	0	0	4
3	584.72	22,334	+438	7,247	2,535	3,693	7,021	0	0	5
4	584.62	22,273	-61	6,984	2,515	4,210	7,010	0	0	5
5	584.10	21,952	-321	6,851	2,548	3,971	7,009	0	0	4
6	584.03	21,909	-43	6,998	2,520	4,157	7,017	0	0	3
7	584.40	22,137	+228	6,689	2,504	3,828	6,570	0	0	4
8	584.71	22,328	+191	6,634	2,505	3,692	6,535	0	0	3
9	583.97	21,872	-456	6,315	2,530	3,448	6,542	0	0	3
10	583.68	21,696	-176	6,443	2,505	3,649	6,529	0	0	3
11	584.44	22,161	+465	6,784	2,487	3,917	6,543	0	0	7
12	584.16	21,989	-172	6,448	2,458	3,666	6,532	0	0	3
13	583.90	21,829	-160	6,453	2,561	3,467	6,530	0	0	4
14	583.51	21,593	-236	6,414	2,522	3,473	6,529	0	0	4
15	584.13	21,970	+377	6,730	1,440	4,902	6,537	0	0	3
16	584.64	22,285	+315	6,710	1,533	4,743	6,548	0	0	3
17	585.54	22,846	+561	6,902	1,542	4,831	5,043	1,574	0	2
18	585.11	22,576	-270	6,675	1,510	4,623	5,504	1,304	0	3
19	584.62	22,273	-303	6,671	2,544	3,626	6,821	0	0	3
20	584.17	21,995	-278	6,686	2,542	3,751	6,823	0	0	3
21	583.26	21,441	-554	6,557	2,521	3,622	6,833	0	0	3
22	583.81	21,775	+334	6,939	2,517	4,014	6,748	20	0	3
23	584.89	22,439	+664	7,163	2,530	4,198	6,825	0	0	3
24	583.96	21,866	-573	6,541	2,506	3,536	6,826	0	0	4
25	583.78	21,756	-110	6,779	2,511	3,912	6,829	0	0	5
26	584.11	21,958	+202	7,219	2,536	4,304	7,112	0	0	5
27	583.82	21,781	-177	6,739	97	6,261	6,823	0	0	5
28	584.26	22,050	+269	7,168	16	6,690	7,027	0	0	5
29	584.23	22,032	-18	7,034	15	6,712	7,033	0	7	3
30	583.84	21,793	-239	6,917	14	6,537	7,034	0	0	3
31	584.46	22,174	+381	7,216	75	6,827	7,020	0	0	4
<b>TOTALS</b>			<b>+393</b>	<b>211,015</b>	<b>61,730</b>	<b>136,415</b>	<b>207,795</b>	<b>2,898</b>	<b>7</b>	<b>117</b>
<b>ACRE-FEET</b>			<b>+393</b>	<b>418,548</b>	<b>122,441</b>	<b>270,579</b>	<b>412,161</b>	<b>5,748</b>	<b>14</b>	<b>232</b>

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

**SUMMARY**  
 RELEASE (ACRE-FEET)

POWER	412,161
SPILL	5,748
FISH TRAP	14

OCTOBER 2003

RED BLUFF DIVERSION RESERVOIR DAILY OPERATIONS

RUN DATE: November 24, 2003

DAY	ELEVATION	STORAGE		RELEASE C.F.S		RELEASE TO SACTO RIVER
		IN LAKE	ACRE-FEET CHANGE	CORNING CANAL	TEHAMA COLUSA CANAL	
		355				
1	238.93	343	-12	57	249	6,521
2	238.90	340	-3	43	164	6,487
3	238.89	339	-1	38	205	6,562
4	238.91	341	+2	47	167	6,644
5	238.90	340	-1	49	209	6,593
6	238.89	339	-1	28	230	6,599
7	238.91	341	+2	36	225	6,580
8	238.84	334	-7	34	67	6,263
9	238.80	330	-4	36	145	6,274
10	238.81	331	+1	37	142	6,280
11	238.80	330	-1	54	224	6,355
12	238.71	320	-10	39	251	6,102
13	238.70	319	-1	27	225	6,001
14	238.69	318	-1	31	179	6,234
15	238.68	317	-1	28	191	6,010
16	238.70	319	+2	29	215	6,319
17	238.72	321	+2	22	252	6,322
18	238.73	322	+1	11	197	6,310
19	238.77	327	+5	16	193	6,422
20	238.80	330	+3	23	185	6,618
21	238.86	336	+6	0	210	7,146
22	238.87	337	+1	17	192	7,315
23	238.89	339	+2	69	139	7,284
24	238.87	337	-2	29	180	7,192
25	238.90	340	+3	25	155	7,289
26	238.90	340	+0	23	198	7,365
27	238.84	334	-6	20	184	7,124
28	238.88	338	+4	0	209	7,216
29	238.94	344	+6	43	160	7,437
30	239.04	355	+11	29	173	7,691
31	238.98	348	-7	17	185	7,785
<b>TOTALS</b>			<b>-7</b>	<b>957</b>	<b>5,900</b>	<b>208,340</b>
<b>ACRE-FEET</b>			<b>-7</b>	<b>1,898</b>	<b>11,703</b>	<b>413,242</b>

**SUMMARY**

RELEASE (ACRE-FEET)

CORNING CANAL	1,898
TEHAMA-COLUSA CANAL	11,703
TO SACTO RIVER	413,242
<b>TOTAL</b>	<b>426,843</b>

Table 10

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

DAILY OPERATION OF BLACK BUTTE RESERVOIR, STONY CREEK, CALIFORNIA

OCTOBER 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	448.75	50508	-546	29	285	168	117	0	39	0.2	0	76398	89900
2	448.51	49916	-592	36	310	177	133	0	48	0.25	0	76307	88600
3	448.26	49304	-612	27	315	189	121	5	40	0.21	0	76228	87200
4	448.03	48745	-559	28	293	181	107	5	34	0.18	0	76173	85800
5	447.82	48238	-507	44	280	164	111	5	39	0.21	0	76084	84400
6	447.48	47425	-813	14	400	292	103	5	48	0.26	0	76043	82700
7	447.08	46478	-947	11	471	359	107	5	35	0.19	0	75919	81300
8	446.69	45567	-911	12	450	356	89	5	42	0.23	0	75829	80100
9	446.26	44575	-992	-11	454.4	342	111	1.4	68	0.38	0	75695	78500
10	445.88	43711	-864	-6	405	319	86	0	48	0.27	0	75594	77300
11	445.56	42990	-721	4	349	296	53	0	37	0.21	0	75504	75900
12	445.22	42234	-756	1	349	298	51	0	66	0.38	0	75414	74500
13	444.79	41289	-945	-8	443	340	103	0	51	0.3	0	75333	73000
14	444.33	40295	-994	10	494	358	136	0	33	0.2	0	75071	71600
15	443.86	39296	-999	9	501	365	136	0	23	0.14	0	75231	70100
16	443.36	38254	-1042	-8	500	376	124	0	35	0.22	0	75199	68600
17	442.95	37414	-840	-7	405	330	75	0	22	0.14	0	75160	67200
18	442.77	37049	-365	12	180	160	20	0	32	0.2	0	75115	65700
19	442.66	36827	-222	16	117	98	19	0	22	0.14	0	75104	64200
20	442.45	36405	-422	21	214	132	82	0	39	0.25	0	75051	62700
21	442.15	35808	-597	3	291	176	115	0	26	0.17	0	75018	61100
22	441.8	35120	-688	-10	327	180	147	0	20	0.13	0	74970	59600
23	441.47	34477	-643	5	296	158	138	0	65	0.43	0	74911	58200
24	441.3	34150	-327	6	139	76	63	0	64	0.43	0	74836	56700
25	441.23	34015	-135	16	48.8	39	9.8	0	69	0.46	0	74804	55400
26	441.17	33900	-115	29	55	44	11	0	63	0.42	0	74714	54000
27	440.98	33538	-362	8	161	81	80	0	59	0.4	0	74672	52500
28	440.67	32951	-587	6	284	122	162	0	35	0.24	0	74848	51100
29	440.31	32278	-673	-19	302	121	181	0	36	0.25	0	74571	49600
30	440.01	31724	-554	-4	266	100	166	0	19	0.13	0.39	74485	48200
31	439.89	31504	-220	41	150	61	89	0	3	0.02	0.03	74442	46600
Totals	(sfd)			315	9535.2	6458	3045.8	31.4					
Totals	(ac-ft)		-19550	625	18913.1	12809.4			1260				
Totals	(inches)									7.64	0.42		

[1] South Diversion Canal, [2] Wakerman Ranch Diversion above South Diversion Canal Measuring Weir  
CORPS OF ENGINEERS, U.S. ARMY

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

Table 11

OCTOBER 2003

FOLSOM LAKE DAILY OPERATIONS

RUN DATE: November 24, 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	
1	434.82	657.5	-0.6	1,856	1,891	0	0	239	52	.17	.00
2	434.65	655.9	-1.6	1,505	2,015	0	0	233	49	.16	.00
3	434.47	654.3	-1.7	1,536	2,104	0	0	230	40	.13	.00
4	434.30	652.7	-1.6	1,355	1,882	0	0	225	40	.13	.00
5	434.12	651.0	-1.7	1,355	1,921	0	0	226	46	.15	.00
6	433.81	648.2	-2.9	721	1,885	0	0	236	37	.12	.00
7	433.53	645.6	-2.6	813	1,827	0	0	232	49	.16	.00
8	433.17	642.3	-3.3	896	2,281	0	0	228	52	.17	.00
9	432.81	639.0	-3.3	780	2,154	0	0	223	61	.20	.00
10	432.43	635.6	-3.5	934	2,401	0	0	216	61	.20	.00
11	432.02	631.8	-3.7	596	2,205	0	0	213	60	.20	.00
12	431.69	628.9	-3.0	797	2,023	0	0	221	57	.19	.00
13	431.35	625.8	-3.1	958	2,203	0	0	232	72	.24	.00
14	430.98	622.4	-3.3	761	2,181	0	0	210	54	.18	.00
15	430.60	619.0	-3.4	808	2,243	0	0	223	60	.20	.00
16	430.23	615.7	-3.3	765	2,197	0	0	196	45	.15	.00
17	429.93	613.0	-2.7	1,018	2,144	0	0	183	45	.15	.00
18	429.59	610.0	-3.0	912	2,210	0	0	180	47	.16	.00
19	429.22	606.7	-3.3	762	2,201	0	0	183	38	.13	.00
20	428.82	603.2	-3.5	634	2,168	0	0	203	50	.17	.00
21	428.52	600.5	-2.6	1,080	2,164	0	0	204	47	.16	.00
22	428.05	596.4	-4.1	342	2,179	0	0	204	50	.17	.00
23	427.61	592.5	-3.9	433	2,144	0	0	194	38	.13	.00
24	427.13	588.3	-4.2	310	2,179	0	0	201	47	.16	.00
25	426.67	584.3	-4.0	381	2,134	0	0	210	55	.19	.00
26	426.15	579.8	-4.5	354	2,358	0	0	222	49	.17	.00
27	425.71	576.0	-3.8	525	2,174	0	0	214	52	.18	.00
28	425.32	572.6	-3.4	757	2,204	0	0	213	32	.11	.00
29	424.89	569.0	-3.7	608	2,228	0	0	196	46	.16	.00
30	424.50	565.6	-3.3	706	2,148	0	0	184	51	.18	.00
31	424.06	561.9	-3.8	898	2,585	0	0	169	37	.13	.00
<b>TOTALS</b>			<b>-96.4</b>	<b>26,156</b>	<b>66,633</b>	<b>0</b>	<b>0</b>	<b>6,543</b>	<b>1,519</b>	<b>5.10</b>	<b>.00</b>
<b>ACRE-FEET</b>			<b>-96,400</b>	<b>51,880</b>	<b>132,167</b>	<b>0</b>	<b>0</b>	<b>12,978</b>	<b>3,013</b>		

COMMENTS:

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

SUMMARY

	RELEASE (ACRE-FEET)			PRECIPITATION	
POWER	132,167	OUTLET	0	THIS MONTH =	.00
SPILL	0	TOTAL	145,145	JULY 1, 2003 TO DATE =	.32
PUMPING PLANT	12,978				

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

Table 12

OCTOBER 2003

LAKE NATOMA DAILY OPERATIONS

RUN DATE: November 24, 2003

DAY	ELEV	STORAGE		COMPUTED* INFLOW C.F.S.	FOLSOM SOUTH CANAL	RELEASE - C.F.S.			EVAP C.F.S. (1)
		ACRE-FEET IN LAKE	CHANGE			POWER	SPILL	HATCHERY	
1	123.40	8,026	-47	1,774	45	1,691	0	60	2
2	123.69	7,979	+136	1,870	45	1,694	0	60	2
3	124.38	8,451	+336	1,964	45	1,688	0	60	2
4	124.28	8,401	-50	1,776	45	1,694	0	60	2
5	124.18	8,351	-50	1,777	45	1,695	0	60	2
6	123.98	8,252	-99	1,752	45	1,695	0	60	2
7	123.52	8,035	-217	1,698	45	1,700	0	60	2
8	123.78	8,158	+123	2,101	45	1,932	0	60	2
9	123.55	8,050	-108	2,005	45	1,951	0	60	3
10	124.28	8,401	+351	2,223	42	1,941	0	60	3
11	124.42	8,471	+70	2,082	40	1,944	0	60	3
12	123.87	8,200	-271	1,911	43	1,943	0	60	2
13	123.93	8,228	+28	2,058	45	1,936	0	60	3
14	123.68	8,111	-117	1,993	45	1,945	0	60	2
15	123.84	8,186	+75	2,093	45	1,947	0	60	3
16	123.84	8,186	+0	2,035	31	1,942	0	60	2
17	123.70	8,120	-66	2,001	20	1,952	0	60	2
18	123.81	8,172	+52	2,053	20	1,945	0	60	2
19	123.90	8,214	+42	2,043	20	1,940	0	60	2
20	123.92	8,223	+9	2,028	20	1,941	0	60	2
21	123.98	8,252	+29	2,037	20	1,940	0	60	2
22	123.91	8,219	-33	2,008	20	1,943	0	60	2
23	123.80	8,167	-52	2,002	20	1,946	0	60	2
24	123.83	8,181	+14	2,043	26	1,948	0	60	2
25	123.73	8,134	-47	2,003	25	1,940	0	60	2
26	124.13	8,326	+192	2,292	19	2,112	0	62	2
27	124.17	8,346	+20	2,050	28	1,950	0	60	2
28	124.10	8,311	-35	2,047	43	1,961	0	60	1
29	124.25	8,386	+75	2,088	45	1,943	0	60	2
30	124.30	8,411	+25	2,051	45	1,931	0	60	2
31	124.13	8,326	-85	2,488	45	2,424	0	60	2
<b>TOTALS</b>			<b>+300</b>	<b>62,346</b>	<b>1,112</b>	<b>59,154</b>	<b>0</b>	<b>1,862</b>	<b>66</b>
<b>ACRE-FEET</b>			<b>+300</b>	<b>123,663</b>	<b>2,206</b>	<b>117,332</b>	<b>0</b>	<b>3,693</b>	<b>131</b>

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	117,332	FOLSOM SOUTH CANAL	2,206	TOTAL	123,231
SPILL	0	HATCHERY	3,693		

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

OCTOBER 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		
		1,280.3									
1	978.26	1,279.8	-0.4	418	562	0	0	68	.25	.00	
2	978.20	1,279.3	-0.5	257	466	0	0	46	.17	.00	
3	978.12	1,278.7	-0.7	415	703	0	0	52	.19	.00	
4	977.95	1,277.2	-1.4	302	969	0	0	54	.20	.00	
5	978.03	1,277.9	+0.7	388	0	0	0	49	.18	.00	
6	977.95	1,277.2	-0.7	485	772	0	0	52	.19	.00	
7	978.04	1,278.0	+0.8	455	0	0	0	73	.27	.00	
8	977.87	1,276.6	-1.4	404	1,061	0	0	63	.23	.00	
9	977.75	1,275.5	-1.0	277	722	0	0	63	.23	.00	
10	977.83	1,276.2	+0.7	396	0	0	0	57	.21	.00	
11	977.62	1,274.5	-1.8	304	1,144	0	0	49	.18	.00	
12	977.69	1,275.0	+0.6	353	0	0	0	57	.21	.00	
13	977.35	1,272.2	-2.9	398	1,772	0	0	65	.24	.00	
14	977.44	1,272.9	+0.8	443	0	0	0	62	.23	.00	
15	977.26	1,271.4	-1.5	485	1,157	0	0	90	.33	.00	
16	977.36	1,272.3	+0.8	480	14	0	0	43	.16	.00	
17	977.43	1,272.9	+0.6	359	3	0	0	60	.22	.00	
18	977.50	1,273.4	+0.6	358	2	0	0	60	.22	.00	
19	977.55	1,273.9	+0.4	275	9	0	0	54	.20	.00	
20	977.63	1,274.5	+0.7	398	0	0	0	60	.22	.00	
21	977.39	1,272.5	-2.0	375	1,318	0	0	73	.27	.00	
22	977.25	1,271.3	-1.2	373	889	0	0	76	.28	.00	
23	977.32	1,271.9	+0.6	361	22	0	0	43	.16	.00	
24	977.16	1,270.6	-1.3	285	909	0	0	54	.20	.00	
25	976.99	1,269.2	-1.4	336	1,017	0	0	38	.14	.00	
26	976.84	1,267.9	-1.3	378	945	0	0	65	.24	.00	
27	976.95	1,268.8	+0.9	526	0	0	0	62	.23	.00	
28	976.90	1,268.4	-0.4	475	0	0	613	73	.27	.00	
29	976.77	1,267.3	-1.1	476	0	0	962	62	.23	.00	
30	976.64	1,266.2	-1.1	468	0	0	962	54	.20	.00	
31	976.61	1,266.0	-0.3	572	0	0	668	30	.11	.00	
<b>TOTALS</b>			<b>-14.2</b>	<b>12,275</b>	<b>14,456</b>	<b>0</b>	<b>3,205</b>	<b>1,807</b>	<b>6.66</b>	<b>.00</b>	
<b>ACRE-FEET</b>			<b>-14,200</b>	<b>24,347</b>	<b>28,673</b>	<b>0</b>	<b>6,357</b>	<b>3,584</b>			

COMMENTS:

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

SUMMARY

	RELEASE (ACRE-FEET)			PRECIPITATION	
POWER	28,673	OUTLET	6,357	THIS MONTH =	.00
SPILL	0	TOTAL	35,030	JULY 1, 2003 TO DATE =	.63



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

OCTOBER 2003

GOODWIN RESERVOIR DAILY OPERATIONS

RUN DATE: September 14, 2004

DAY	ELEV	STORAGE ACRE-FEET RES. CHANGE		TULLOCH RELEASE	RIVER		RELEASE - C.F.S.	
					OUTLET	SPILL	JOINT MAIN	SOUTH MAIN
		539						
1	360.03	539	+0	834	0	219	264	293
2	360.03	539	+0	832	0	226	262	295
3	360.03	539	+0	818	0	226	250	295
4	360.03	539	+0	785	0	224	232	284
5	360.03	539	+0	754	0	223	210	273
6	360.03	539	+0	752	0	226	211	273
7	360.03	539	+0	751	0	227	211	272
8	360.03	539	+0	743	0	220	211	273
9	360.05	541	+2	749	0	223	211	272
10	360.03	539	-2	747	0	221	214	273
11	360.03	539	+0	778	0	222	222	289
12	360.03	539	+0	786	0	222	221	299
13	360.03	539	+0	771	0	223	203	304
14	360.03	539	+0	649	0	225	96	303
15	360.03	539	+0	263	0	222	7	10
16	360.03	539	+0	247	0	220	7	0
17	360.03	539	+0	245	0	225	6	0
18	360.03	539	+0	237	0	224	5	0
19	360.16	548	+9	352	0	241	5	0
20	360.59	578	+30	866	0	888	5	0
21	360.52	573	-5	918	0	948	5	0
22	360.52	573	+0	921	0	952	5	0
23	360.49	571	-2	919	0	950	5	0
24	360.49	571	+0	937	0	949	5	0
25	360.04	540	-31	954	0	949	5	0
26	360.49	571	+31	949	0	949	3	0
27	360.49	571	+0	955	0	949	0	0
28	360.49	571	+0	975	0	950	4	0
29	360.24	554	-17	891	0	870	6	0
30	360.11	545	-9	538	0	509	6	0
31	360.03	539	-6	324	0	252	6	0
<b>TOTALS</b>			<b>+0</b>	<b>22,240</b>	<b>0</b>	<b>14,374</b>	<b>3,103</b>	<b>4,008</b>
<b>ACRE-FEET</b>			<b>+0</b>	<b>44,113</b>	<b>0</b>	<b>28,511</b>	<b>6,155</b>	<b>7,950</b>

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

**SUMMARY**  
 RELEASE (ACRE-FEET)

JOINT MAIN CANAL	6,155	OUTLET	0
SOUTH MAIN CANAL	7,950	SPILL	28,511
		TOTAL	42,616

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

OCTOBER 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		
		215.0								
1	499.64	214.6	-0.4	1,349	193	1,131	0	220	26	.27
2	499.40	213.9	-0.7	1,267	174	1,200	0	220	27	.29
3	499.38	213.8	-0.1	1,457	193	1,058	0	220	16	.17
4	499.30	213.6	-0.2	1,208	193	897	0	220	16	.17
5	498.71	211.9	-1.7	475	231	874	0	219	19	.20
6	498.21	210.4	-1.5	653	172	972	0	219	22	.23
7	497.63	208.7	-1.7	727	228	1,104	0	219	21	.23
8	496.80	206.4	-2.4	418	227	1,156	0	218	19	.21
9	496.20	204.6	-1.7	712	225	1,112	0	217	22	.24
10	495.72	203.3	-1.4	760	224	982	0	218	23	.25
11	495.71	203.3	+0.0	1,301	223	862	0	218	13	.14
12	495.39	202.4	-0.9	831	223	826	0	218	20	.22
13	495.20	201.8	-0.5	1,114	222	926	0	218	19	.21
14	495.21	201.8	+0.0	1,457	222	1,004	0	194	23	.25
15	494.96	201.1	-0.7	1,089	234	1,006	0	190	15	.17
16	494.82	200.7	-0.4	1,297	280	1,006	0	189	20	.22
17	495.05	201.4	+0.6	1,811	325	955	0	189	16	.18
18	495.51	202.7	+1.3	1,987	300	814	0	190	27	.29
19	495.97	204.0	+1.3	1,972	294	815	0	190	17	.18
20	496.30	204.9	+0.9	1,912	339	894	0	190	14	.15
21	496.60	205.8	+0.9	1,858	394	820	0	190	22	.24
22	497.01	207.0	+1.2	1,886	336	754	0	190	16	.17
23	497.59	208.6	+1.7	2,060	247	761	0	190	20	.21
24	498.35	210.8	+2.2	2,053	67	669	0	192	17	.18
25	499.02	212.8	+1.9	1,802	0	600	0	192	28	.30
26	499.01	212.7	+0.0	791	0	600	0	192	14	.15
27	498.96	212.6	-0.1	903	0	765	0	192	19	.20
28	498.91	212.5	-0.1	1,025	0	886	0	192	20	.21
29	498.75	212.0	-0.5	908	0	926	0	192	24	.26
30	498.48	211.2	-0.8	778	0	956	0	192	25	.27
31	498.42	211.0	-0.2	849	0	748	0	171	18	.19
<b>TOTALS</b>			<b>-4.0</b>	<b>38,710</b>	<b>5,766</b>	<b>28,079</b>	<b>0</b>	<b>6,261</b>	<b>618</b>	<b>6.65</b>
<b>ACRE- FEET</b>			<b>-3,998</b>	<b>76,781</b>	<b>11,437</b>	<b>55,695</b>	<b>0</b>	<b>12,419</b>	<b>1,226</b>	<b>.12</b>

COMMENTS:

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

**SUMMARY**

RELEASE (ACRE- FEET)		PRECIPITATION	
CANALS	RIVER		
FRIANT-KERN	AT FRIANT	THIS MONTH =	0.12
MADERA	TOTAL RELEASES	JULY 1, 2003 TO DATE =	0.13

Table 16

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

**October 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-Oct-03	12,582	252	0	247	1,349	1,316	1,283	14,430	2,150	3,456	4,399	75	21	75	7,983	9,200	4,297	2,657	4,297	54.3%	63.1%	57.8%	
2-Oct-03	12,573	252	0	256	1,283	1,325	1,289	14,364	2,100	3,492	4,392	84	33	82	8,017	8,501	4,247	2,900	4,272	54.7%	58.5%	54.2%	
3-Oct-03	12,617	252	0	260	1,295	1,332	1,310	14,424	2,050	3,995	4,377	80	28	84	8,508	8,037	3,866	3,084	4,137	57.8%	55.6%	52.1%	
4-Oct-03	12,162	252	0	262	1,352	1,341	1,335	14,028	2,050	3,495	4,373	86	20	75	8,009	8,041	3,969	3,343	4,095	55.9%	56.2%	53.0%	
5-Oct-03	12,006	252	0	261	1,411	1,365	1,366	13,930	2,000	2,991	4,349	89	20	73	7,481	7,860	4,449	3,674	4,166	52.5%	55.5%	52.5%	
6-Oct-03	11,843	252	0	263	1,489	1,384	1,390	13,847	2,000	2,963	4,359	77	0	71	7,470	7,510	4,377	3,978	4,201	52.9%	53.8%	50.9%	
7-Oct-03	11,530	250	0	253	1,507	1,421	1,421	13,540	1,950	2,958	4,363	58	20	66	7,426	7,328	4,163	4,195	4,195	53.9%	53.1%	50.3%	
8-Oct-03	11,574	247	0	242	1,609	1,476	1,452	13,672	1,950	2,990	4,372	52	28	81	7,468	7,335	4,254	4,189	4,203	53.6%	53.5%	50.7%	
9-Oct-03	11,642	245	0	251	1,666	1,522	1,470	13,804	1,950	2,981	4,368	52	20	95	7,475	7,344	4,379	4,208	4,222	53.1%	53.6%	51.1%	
10-Oct-03	12,007	242	0	261	1,617	1,559	1,484	14,127	1,900	3,486	4,146	62	15	91	7,770	7,447	4,458	4,293	4,246	53.9%	53.6%	52.2%	
11-Oct-03	11,878	240	0	280	1,612	1,577	1,489	14,010	1,900	3,491	4,540	73	15	79	8,168	7,671	3,941	4,289	4,218	57.2%	54.7%	54.0%	
12-Oct-03	11,261	237	0	286	1,540	1,587	1,495	13,324	1,900	2,995	4,356	69	15	83	7,489	7,672	3,936	4,215	4,195	55.1%	55.4%	54.5%	
13-Oct-03	11,183	235	0	272	1,560	1,597	1,501	13,250	1,900	2,496	4,374	75	3	84	7,024	7,418	4,326	4,208	4,205	51.8%	54.7%	53.0%	
14-Oct-03	10,765	235	0	275	1,573	1,592	1,506	12,848	1,850	2,490	4,366	90	16	87	7,017	7,025	3,981	4,182	4,189	53.2%	53.4%	50.7%	
15-Oct-03	10,716	235	0	276	1,575	1,583	1,513	12,802	1,850	1,995	4,384	85	13	93	6,544	6,701	4,408	4,204	4,203	49.7%	51.6%	48.8%	
16-Oct-03	10,595	235	0	275	1,605	1,572	1,514	12,710	1,850	1,990	4,386	67	5	112	6,550	6,537	4,310	4,194	4,210	50.1%	51.0%	48.0%	
17-Oct-03	10,910	235	0	272	1,537	1,560	1,515	12,954	1,850	2,486	4,384	66	19	108	7,024	6,541	4,080	4,140	4,202	52.9%	50.9%	48.4%	
18-Oct-03	10,493	235	0	276	1,530	1,611	1,537	12,534	1,800	2,483	4,417	68	0	101	7,069	6,715	3,665	4,101	4,172	55.0%	52.7%	50.1%	
19-Oct-03	10,224	235	0	279	1,896	1,678	1,562	12,634	1,800	1,441	4,327	64	0	117	5,949	6,512	4,885	4,236	4,210	45.7%	51.2%	49.0%	
20-Oct-03	10,699	235	0	294	2,030	1,757	1,591	13,258	1,800	3,496	4,329	66	30	116	7,977	6,831	3,481	4,116	4,174	58.8%	53.3%	51.5%	
21-Oct-03	10,530	235	0	290	2,126	1,863	1,625	13,181	1,800	3,322	4,375	70	16	117	7,868	7,096	3,513	4,049	4,142	58.3%	54.4%	53.6%	
22-Oct-03	10,522	235	0	277	2,315	2,016	1,673	13,349	1,800	3,485	4,379	74	30	117	8,025	7,795	3,524	3,922	4,114	58.7%	58.6%	58.9%	
23-Oct-03	10,390	235	0	270	2,675	2,185	1,719	13,570	1,750	3,996	4,358	60	36	113	8,491	7,972	3,329	3,782	4,080	61.3%	59.4%	60.3%	
24-Oct-03	11,004	235	0	263	2,725	2,351	1,759	14,227	1,750	3,997	4,343	94	26	115	8,524	8,187	3,953	3,764	4,075	58.4%	59.5%	61.8%	
25-Oct-03	10,602	235	0	262	2,689	2,481	1,801	13,788	1,750	3,994	4,348	78	25	101	8,496	8,346	3,542	3,747	4,053	60.3%	60.0%	63.1%	
26-Oct-03	10,211	235	0	267	2,804	2,590	1,839	13,517	1,750	3,269	4,495	81	5	35	7,874	8,149	3,893	3,605	4,047	57.4%	58.7%	61.7%	
27-Oct-03	10,042	235	0	264	2,798	2,659	1,868	13,339	1,750	3,978	4,450	50	0	0	8,478	8,178	3,111	3,552	4,012	63.2%	60.3%	61.9%	
28-Oct-03	10,162	235	0	257	2,610	2,674	1,887	13,264	1,750	1,978	4,543	58	0	0	6,580	7,571	4,934	3,755	4,045	49.2%	56.6%	57.2%	
29-Oct-03	10,645	235	0	254	2,419	2,627	1,903	13,553	1,700	1,568	4,368	58	0	0	5,994	6,961	5,859	4,089	4,108	43.8%	52.0%	52.4%	
30-Oct-03	9,606	235	0	219	2,346	2,574	1,918	12,406	1,700	496	3,349	63	30	0	3,877	5,434	6,829	4,589	4,199	30.7%	41.5%	40.9%	
31-Oct-03	10,981	235	0	193	2,350	2,505	1,927	13,759	1,700	297	2,801	70	7	0	3,161	4,293	8,898	5,295	4,350	22.5%	32.3%	32.2%	
Total	343,955	7,438	0	8,157	58,893	56,677	48,943	418,443	57,800	88,551	133,168	2,194	496	2,372	225,789	228,209	134,854	122,554	129,236	1636.1%	1678.6%	1636.9%	
Average	11,095	240	0	263	1,900	1,828	1,579	13,498	1,865	2,856	4,296	71	16	77	7,284	7,362	4,350	3,953		52.8%	54.1%	52.8%	

OCTOBER 2003

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

RUN DATE: November 24, 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	
		939,243									
1	446.51	937,871	-1,372	2,036	1,583	110	0	-1,035	121	.38	.00
2	446.41	936,892	-979	1,406	1,812	183	0	+96	123	.39	.00
3	446.10	933,857	-3,035	791	2,036	176	0	-108	95	.30	.00
4	446.00	932,879	-978	1,407	1,659	214	0	-27	92	.29	.00
5	446.32	936,010	+3,131	2,105	0	195	0	-332	95	.30	.00
6	446.09	933,760	-2,250	787	1,977	153	0	+208	111	.35	.00
7	445.96	932,488	-1,272	787	1,214	176	0	-39	120	.38	.00
8	445.92	932,097	-391	959	680	208	0	-268	126	.40	.00
9	446.03	933,173	+1,076	1,381	607	237	0	+6	126	.40	.00
10	445.47	927,701	-5,472	780	3,270	264	0	-5	126	.40	.00
11	445.54	928,385	+684	972	0	278	0	-348	130	.41	.00
12	445.97	932,586	+4,201	2,558	0	273	0	-167	95	.30	.00
13	466.02	933,075	+489	1,407	1,124	266	0	+229	95	.30	.00
14	446.01	932,977	-98	879	603	276	0	-49	95	.30	.00
15	446.07	933,564	+587	1,583	825	278	0	-184	95	.30	.00
16	446.39	936,696	+3,132	2,190	0	249	0	-362	120	.38	.00
17	445.75	930,436	-6,260	1,575	4,655	266	0	+190	82	.26	.00
18	445.97	932,586	+2,150	1,407	0	260	0	-63	63	.20	.00
19	445.70	929,947	-2,639	1,579	2,577	245	0	-87	117	.37	.00
20	445.78	930,729	+782	1,578	964	234	0	+15	76	.24	.00
21	446.03	933,173	+2,444	1,991	603	250	0	+94	82	.26	.00
22	446.10	933,857	+684	969	0	231	0	-393	95	.30	.00
23	446.65	939,243	+5,386	3,135	0	206	0	-214	105	.33	.00
24	446.86	941,302	+2,059	2,192	1,206	207	0	+260	80	.25	.00
25	447.17	944,344	+3,042	2,047	0	214	0	-299	73	.23	.00
26	448.18	954,279	+9,935	5,446	0	217	0	-220	83	.26	.00
27	448.71	959,506	+5,227	3,048	0	226	0	-187	80	.25	.00
28	449.27	965,040	+5,534	2,845	0	63	0	+7	74	.23	.00
29	449.11	963,458	-1,582	1,563	2,423	0	0	+63	96	.30	.00
30	449.33	965,633	+2,175	2,434	1,376	0	0	+39	112	.35	.00
31	448.96	961,975	-3,658	0	1,834	116	0	+106	48	.15	.08
<b>TOTALS</b>			<b>+22,732</b>	<b>53,837</b>	<b>33,028</b>	<b>6,271</b>	<b>0</b>	<b>-3,074</b>	<b>3,031</b>	<b>9.56</b>	<b>.08</b>
<b>ACRE-FEET</b>			<b>+22,732</b>	<b>106,786</b>	<b>65,511</b>	<b>12,439</b>	<b>0</b>	<b>-6,097</b>	<b>6,012</b>		

**SUMMARY**

RELEASE (ACRE-FEET)		PRECIPITATION	
POWER	65,511	SPILL	0
PACHECO TUNNEL	12,439	TOTAL	77,950
		THIS MONTH =	.08
		JULY 1, 2003 TO DATE =	.43

OCTOBER 2003

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

RUN DATE: November 24, 2003

DAY	ELEV	STORAGE		INFLOW - C.F.S.			RELEASE - C.F.S.			* DELIV.	GAINS(+) OR LOSS(-) C.F.S.
		IN LAKE	ACRE-FEET CHANGE	O'NEILL PUMPING	S. LUIS GEN.	CALIF. AQUEDUCT	O'NEILL GEN.	S. LUIS PUMPING	DOS AMIGOS PUMPING		
		45,420									
1	220.52	44,505	-915	1,344	1,583	2,795	0	2,036	5,134		+988
2	220.17	43,593	-912	1,501	1,812	3,311	0	1,406	5,813		+135
3	221.11	46,049	+2,456	1,596	2,036	3,647	0	791	5,432		+181
4	220.70	44,975	-1,074	1,677	1,659	2,936	0	1,407	5,408		+1
5	217.90	37,824	-7,151	1,721	0	2,519	0	2,105	5,894		+153
6	219.20	41,093	+3,269	1,685	1,977	2,676	0	787	4,185		+282
7	219.35	41,477	+384	1,588	1,214	2,172	0	787	4,042		+50
8	219.30	41,349	-128	1,580	680	2,588	0	959	3,992		+39
9	218.90	40,330	-1,019	1,764	607	2,478	0	1,381	4,073		+92
10	221.40	46,810	+6,480	1,893	3,270	2,908	0	780	3,862		-161
11	221.95	48,255	+1,445	1,958	0	3,045	0	972	3,478		+175
12	220.58	44,661	-3,594	2,184	0	2,889	0	2,558	4,376		+48
13	220.93	45,577	+916	2,341	1,124	1,930	0	1,407	3,596		+69
14	221.04	45,865	+288	2,395	603	1,910	0	879	3,994		+110
15	220.35	44,062	-1,803	2,398	825	1,513	0	1,583	4,128		+66
16	218.52	39,373	-4,689	2,400	0	1,558	0	2,190	4,267		+135
17	221.08	45,970	+6,597	2,366	4,655	2,322	0	1,575	4,488		+46
18	220.16	43,567	-2,403	2,347	0	1,302	0	1,407	3,514		+60
19	219.30	41,349	-2,218	2,322	2,577	0	0	1,579	4,437		-3
20	221.00	45,760	+4,411	2,265	964	3,781	0	1,578	3,439		+231
21	221.20	46,285	+525	2,494	603	2,929	0	1,991	4,127		+356
22	221.61	47,362	+1,077	2,532	0	3,337	0	969	4,754		+398
23	220.57	44,635	-2,727	2,592	0	3,635	0	3,135	4,735		+268
24	221.28	46,495	+1,860	2,734	1,206	3,406	0	2,192	4,175		-42
25	221.38	46,758	+263	2,831	0	3,269	0	2,047	4,087		+166
26	220.33	44,009	-2,749	2,956	0	4,447	0	5,446	3,581		+237
27	220.27	43,853	-156	2,851	0	3,240	0	3,048	3,284		+163
28	219.88	42,841	-1,012	2,906	0	1,841	0	2,845	2,611		+199
29	221.08	45,970	+3,129	2,944	2,423	1,336	0	1,563	3,446		-117
30	220.13	43,489	-2,481	2,277	1,376	220	0	2,434	2,598		-93
31	220.09	43,386	-103	1,399	1,834	81	0	0	3,705		+778
<b>TOTALS</b>			<b>-2,034</b>	<b>67,841</b>	<b>33,028</b>	<b>76,021</b>	<b>0</b>	<b>53,837</b>	<b>128,655</b>		<b>+5,010</b>
<b>ACRE-FEET</b>			<b>-2,034</b>	<b>134,563</b>	<b>65,511</b>	<b>150,788</b>	<b>0</b>	<b>106,786</b>	<b>255,187</b>	<b>871</b>	<b>9,937</b>

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

**SUMMARY**  
RELEASE (ACRE-FEET)

O'NEILL GEN.	0	DOS AMIGOS PUMP	255,187		
SAN LUIS PUMP	106,786	DELIVERIES	871	TOTAL	362,844

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

Table 19

OCTOBER 2003

FEDERAL-STATE OPERATIONS  
 SAN LUIS UNIT

RUN DATE: November 24, 2003

DAY	AQUEDUCT CHECK 12			O'NEILL			SAN LUIS			SAN LUIS			PACHECO PUMP	DOS AMIGOS			
	STATE	FED	TOTAL	FED	STATE	GENER TOTAL	FED	STATE	GENER TOTAL	FED	STATE	GENER TOTAL		FED	STATE	TOTAL	
1	5,543	0	5,543	2,666	0	2,666	0	4,090	-51	4,039	0	3,139	3,139	219	530	9,654	10,184
2	6,568	0	6,568	2,977	0	2,977	0	2,825	-37	2,788	0	3,595	3,595	362	529	11,002	11,531
3	7,234	0	7,234	3,165	0	3,165	0	1,608	-40	1,568	0	4,039	4,039	350	1,189	9,585	10,774
4	5,824	0	5,824	3,326	0	3,326	0	1,618	1,172	2,790	0	3,291	3,291	424	1,186	9,541	10,727
5	4,997	0	4,997	3,414	0	3,414	0	4,262	-87	4,175	0	0	0	386	1,242	10,448	11,690
6	5,307	0	5,307	3,343	0	3,343	0	1,601	-39	1,562	0	3,921	3,921	304	1,224	7,076	8,300
7	4,309	0	4,309	3,149	0	3,149	0	1,601	-39	1,562	0	2,407	2,407	349	1,181	6,837	8,018
8	5,133	0	5,133	3,133	0	3,133	0	1,969	-66	1,903	0	1,349	1,349	413	1,187	6,731	7,918
9	4,915	0	4,915	3,499	0	3,499	0	2,820	-81	2,739	0	1,203	1,203	471	1,181	6,898	8,079
10	5,768	0	5,768	3,755	0	3,755	0	1,587	-39	1,548	0	6,486	6,486	524	1,478	6,183	7,661
11	6,039	0	6,039	3,884	0	3,884	0	1,615	312	1,927	0	0	0	552	1,533	5,365	6,898
12	5,731	0	5,731	4,332	0	4,332	0	5,202	-129	5,073	0	0	0	541	1,563	7,117	8,680
13	3,829	0	3,829	4,644	0	4,644	0	2,879	-89	2,790	0	2,229	2,229	527	1,525	5,607	7,132
14	3,788	0	3,788	4,751	0	4,751	0	1,609	135	1,744	0	1,197	1,197	547	1,538	6,385	7,923
15	3,001	0	3,001	4,756	0	4,756	0	3,261	-122	3,139	0	1,636	1,636	552	1,538	6,650	8,188
16	3,091	0	3,091	4,760	0	4,760	0	4,486	-142	4,344	0	0	0	493	1,526	6,937	8,463
17	4,605	0	4,605	4,692	0	4,692	0	3,232	-108	3,124	0	9,234	9,234	527	1,525	7,377	8,902
18	2,583	0	2,583	4,656	0	4,656	0	2,868	-78	2,790	0	0	0	516	1,517	5,454	6,971
19	0	0	0	4,606	0	4,606	0	3,243	-112	3,131	0	5,112	5,112	486	1,910	6,890	8,800
20	7,500	0	7,500	4,492	0	4,492	0	3,237	-108	3,129	0	1,912	1,912	464	1,912	4,910	6,822
21	5,810	0	5,810	4,947	0	4,947	0	2,899	1,051	3,950	0	1,197	1,197	495	1,995	6,190	8,185
22	6,618	0	6,618	5,022	0	5,022	0	1,989	-67	1,922	0	0	0	459	2,112	7,318	9,430
23	7,210	0	7,210	5,141	0	5,141	0	2,861	3,358	6,219	0	0	0	409	1,982	7,409	9,391
24	6,756	0	6,756	5,423	0	5,423	0	1,930	2,417	4,347	0	2,393	2,393	410	2,921	5,360	8,281
25	6,484	0	6,484	5,616	0	5,616	0	2,830	1,230	4,060	0	0	0	424	2,953	5,154	8,107
26	8,820	0	8,820	5,864	0	5,864	0	4,348	6,454	10,802	0	0	0	431	3,095	4,007	7,102
27	6,427	0	6,427	5,654	0	5,654	0	1,935	4,111	6,046	0	0	0	449	2,920	3,594	6,514
28	3,652	0	3,652	5,765	0	5,765	0	3,104	2,540	5,644	0	0	0	124	2,927	2,252	5,179
29	2,650	0	2,650	5,840	0	5,840	0	3,152	-51	3,101	0	4,807	4,807	0	2,941	3,894	6,835
30	437	0	437	4,517	0	4,517	0	2,433	2,394	4,827	0	2,730	2,730	0	2,543	2,611	5,154
31	161	0	161	2,774	0	2,774	0	0	0	0	0	3,637	3,637	231	2,548	4,800	7,348
<b>TOTAL</b>	<b>150,790</b>	<b>0</b>	<b>150,790</b>	<b>134,563</b>	<b>0</b>	<b>134,563</b>	<b>0</b>	<b>106,783</b>	<b>65,514</b>	<b>172,297</b>	<b>0</b>	<b>65,514</b>	<b>65,514</b>	<b>12,439</b>	<b>255,187</b>	<b>255,187</b>	<b>255,187</b>
<b>FEDERAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>134,563</b>	<b>0</b>	<b>134,563</b>	<b>0</b>	<b>83,094</b>	<b>0</b>	<b>83,094</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>55,951</b>	<b>55,951</b>	<b>55,951</b>
<b>STATE</b>	<b>150,790</b>	<b>0</b>	<b>150,790</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>23,689</b>	<b>65,514</b>	<b>89,203</b>	<b>0</b>	<b>65,514</b>	<b>65,514</b>	<b>12,439</b>	<b>199,236</b>	<b>199,236</b>	<b>199,236</b>
															<b>XVC</b>	<b>0</b>	<b>0</b>

COMMENTS: ALL VALUES IN ACRE-FEET

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

**Table 20**

**OCTOBER 2003**

**FEDERAL-STATE OPERATIONS**

RUN DATE: November 24, 2003

DAY	TRACY PUMPING			CLIFT COURT TOTAL	DELTA PUMPING PLANT			FED BANKS XVC	STATE DOS BYRON			AQEDUCT CHECK 21			DMC-POOL DEMANDS
	FED	STATE	TOTAL		STATE	FED	TOTAL		AMIGOS XVC	BETHANY TOTAL	STATE	FED	TOTAL		
1	8,725	0	8,725	6,854	6,769	0	6,769	0	0	42	8,972	0	8,972	6,059	
2	8,711	0	8,711	6,927	7,529	0	7,529	0	0	66	9,619	0	9,619	5,734	
3	8,682	0	8,682	7,924	8,429	0	8,429	0	0	56	10,560	0	10,560	5,517	
4	8,673	0	8,673	6,933	6,742	0	6,742	0	0	40	9,936	0	9,936	5,347	
5	8,626	0	8,626	5,932	5,870	0	5,870	0	0	40	9,844	0	9,844	5,212	
6	8,646	0	8,646	5,877	5,856	0	5,856	0	0	0	7,290	0	7,290	5,303	
7	8,655	0	8,655	5,868	5,828	0	5,828	0	0	40	6,732	0	6,732	5,506	
8	8,672	0	8,672	5,931	5,919	0	5,919	0	0	55	5,368	0	5,368	5,539	
9	8,663	0	8,663	5,912	5,807	0	5,807	0	0	40	6,274	0	6,274	5,164	
10	8,224	0	8,224	6,914	7,359	0	7,359	0	0	29	6,140	0	6,140	4,469	
11	9,006	0	9,006	6,925	6,809	0	6,809	0	0	30	5,541	0	5,541	5,122	
12	8,641	0	8,641	5,941	6,256	0	6,256	0	0	30	7,428	0	7,428	4,309	
13	8,675	0	8,675	4,950	4,944	0	4,944	0	0	6	5,465	0	5,465	4,031	
14	8,660	0	8,660	4,938	4,841	0	4,841	0	0	32	6,179	0	6,179	3,909	
15	8,695	0	8,695	3,958	3,933	0	3,933	0	0	25	6,874	0	6,874	3,939	
16	8,699	0	8,699	3,947	3,766	0	3,766	0	0	9	6,805	0	6,805	3,939	
17	8,696	0	8,696	4,930	4,806	0	4,806	0	0	38	6,744	0	6,744	4,004	
18	8,761	0	8,761	4,925	3,567	0	3,567	0	0	0	6,681	0	6,681	4,105	
19	8,582	0	8,582	2,858	375	0	375	0	0	0	7,529	0	7,529	3,976	
20	8,587	0	8,587	6,934	10,285	0	10,285	0	0	59	5,909	0	5,909	4,095	
21	8,677	0	8,677	6,589	6,557	0	6,557	0	0	32	7,195	0	7,195	3,730	
22	8,686	0	8,686	6,913	8,060	0	8,060	0	0	59	7,539	0	7,539	3,664	
23	8,644	0	8,644	7,927	8,005	0	8,005	0	0	72	8,097	0	8,097	3,503	
24	8,615	0	8,615	7,929	8,050	0	8,050	0	0	51	5,886	0	5,886	3,192	
25	8,625	0	8,625	7,923	7,142	0	7,142	0	0	50	7,161	0	7,161	3,009	
26	8,915	0	8,915	6,485	10,021	0	10,021	0	0	10	5,232	0	5,232	3,051	
27	8,826	0	8,826	7,890	7,375	0	7,375	0	0	0	5,573	0	5,573	3,172	
28	9,011	0	9,011	3,924	4,268	0	4,268	0	0	0	3,910	0	3,910	3,246	
29	8,663	0	8,663	3,110	3,389	0	3,389	0	0	0	5,490	0	5,490	2,823	
30	6,642	0	6,642	984	1,160	0	1,160	0	0	60	4,248	0	4,248	2,125	
31	5,555	0	5,555	589	726	0	726	0	0	13	5,121	0	5,121	2,781	
<b>TOTALS</b>	<b>264,138</b>	<b>0</b>	<b>264,138</b>	<b>175,641</b>	<b>180,443</b>	<b>0</b>	<b>180,443</b>	<b>0</b>	<b>0</b>	<b>984</b>	<b>211,342</b>	<b>0</b>	<b>211,342</b>	<b>129,575</b>	

COMMENTS: ALL VALUES IN ACRE-FEET

Table 21

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

**Central Valley Project - California  
2003**

Monthly Diversions in AF

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
<b>CANALS</b>													
Contra Costa	12956	14249	15412	16333	15139	12943	15822	13162	9946	4353			130315
Delta-Mendota	261583	236924	267282	112816	89901	262129	257780	264427	253450	264138			2270430
Actual Fed Dos Amigos	62174	84109	70926	80774	85819	177721	211095	148067	NA	NA			920685
Madera	0	0	0	13220	44954	223582	59818	43847	21916	11437			418774
Friant-Kern	11709	25236	22047	76355	186269	57143	205266	146210	77126	55695			863056
Corning	0	258	0	115	1452	3628	4064	3697	3033	1898			18145
Folsom-South	2434	2150	1503	2168	2684	2678	2737	2767	2676	2206			24003
Sly Park - Camino Conduit	1041	922	1079	1073	1906	3882	4657	2527	2299	1904			21290
Tehama-Colusa	0	1519	4300	11669	31714	58521	59904	38579	20912	11703			238821
<b>CACHUMA PROJECT</b>													
Tecolote Tunnel	2158	1838	2197	1073	2172	2319	3208	3486	2970	2812			24233
<b>KLAMATH PROJECT</b>													
"A" Canal Upper Klamath	0	0	0	0	25680	42640	60400	61020	39140	NA			228880
Klamath Drainage District	12524	10825	9861	2831	2320	12547	11822	9870	11020	NA			83620
Clear Lake Reservoir	0	0	0	0	2340	20860	3490	3260	3190	NA			33140
Gerber Reservoir	0	0	0	0	2100	9960	4360	3700	2840	NA			22960
Klamath River to Lost River	0	0	0	0	0	17607	9608	1933	11590	NA			40738
<b>ORLAND PROJECT</b>													
Stony Creek	0	0	0	0	8503	18847	19686	17414	14939	9831			89220
South Canal	0	0	0	0	6383	12891	13601	12269	10635	6681			62460
North Canal	0	0	0	0	2120	5956	6085	5145	4304	3150			26760
<b>SOLANO PROJECT</b>													
Putah South Canal	3733	3201	4923	9362	17340	32490	37256	29116	23306	10784			171511



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	114	0	0	0	0			114
Arvin-Edison WSD	1707	2374	0	20465	51429	17279	0	5016	8636	6955			113861
Atwell Island WD	0	0	0	0	0	0	0	0	0	0			0
Delano-Earlimart ID	0	2960	3771	7150	15362	25234	26958	15936	12119	9092			118582
Exeter ID	0	10	79	136	679	2025	2909	2743	2390	1454			12425
City of Fresno	0	837	4	7	15	0	25830	29634	3261	762			60350
County of Fresno SA #34	4	3	20	15	48	79	95	80	62	45			451
Fresno ID	0	0	0	0	67	169	3651	0	0	0			3887
Garfield WD	0	0	61	174	278	491	525	388	316	217			2450
Hills Valley ID	0	0	17	33	404	699	905	792	774	547			4171
International WD	25	53	0	89	64	252	259	266	239	168			1415
Ivanhoe ID	0	0	0	952	2513	1341	2250	1679	1408	580			10723
Kaweah Delta WCD	0	0	0	0	0	386	0	0	0	0			386
Kern County Water Agency	0	0	0	0	0	0	0	0	0	0			0
Kern-Tulare WD	0	0	1715	1734	978	4247	4863	3942	3153	0			20632
Kings County WD	0	0	0	0	0	376	0	0	0	0			376
Kings River CD	0	0	0	0	0	3457	0	0	0	0			3457
Lewis Creek WD	0	0	0	0	0	0	0	0	0	0			0
Lindmore ID	0	0	129	828	2989	7697	9762	8858	6928	4595			41786
City of Lindsay	0	45	168	162	257	214	266	269	259	257			1897
Lindsay-Strathmore ID	5	117	0	0	0	2423	4368	4144	3662	2685			17404
Wutchumna (Lindsey-Strathmore non-proje	0	0	202	723	1944	1179	0	0	0	0			4048
Lower Tule River ID	0	0	0	10194	35532	36555	31197	17992	0	0			131470
North-Kern WSD	0	0	0	0	0	0	0	0	0	0			0
City of Orange Cove	70	71	86	100	145	191	224	205	193	153			1438
Orange Cove ID	0	0	75	258	2910	5423	6290	6016	4978	3465			29415
Pixley ID	0	0	0	2342	9571	13482	11053	0	0	0			36448
Porterville ID	0	0	0	1284	2518	3567	3807	2113	902	401			14592
Rag Gulch WD	0	320	684	989	2690	1850	2104	1620	1543	701			12501
Rosedale Rio Bravo WSD	0	0	0	2582	21803	872	0	0	0	0			25257
Saucelito ID	0	321	1840	2232	4822	6896	6558	4965	2968	268			30870
Semitropic WSD	0	0	0	0	0	0	0	0	0	0			0
Shafter Wasco ID	541	5629	3670	3579	7988	11240	11475	6923	4464	4585			60094
Southern San Joaquin MUD	0	5260	5151	7096	13274	20789	22953	15457	11494	7351			108825
Smallwood Vineyards	0	0	33	62	72	113	114	48	4	0			446
Stone Corral ID	0	0	9	232	780	1614	1822	1629	1278	852			8216
Strathmore PUD	0	19	19	19	34	42	51	42	47	43			316
Styro Tek, Inc.	0	0	1	0	1	0	1	1	0	1			5
Tea Pot Dome WD	0	0	0	160	495	1039	1267	1129	983	703			5776
Terra Bella ID	0	0	125	449	1538	3178	4000	3547	3204	2155			18196
Tri-Valley WD	0	0	0	0	25	232	314	356	266	246			1439
Tulare ID	0	2692	0	11459	28428	31717	10055	5170	0	0			89521
	0	0	0	0	0	10270	0	0	0	0			10270
<b>Total</b>	<b>2352</b>	<b>20711</b>	<b>17859</b>	<b>75505</b>	<b>209653</b>	<b>216732</b>	<b>195926</b>	<b>140960</b>	<b>75531</b>	<b>48281</b>	<b>0</b>	<b>0</b>	<b>1003510</b>

\* 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
<b>MADERA CANAL</b>													
Chowchilla WD	0	0	0	4856	15650	20807	24536	22134	11544	NA			99527
Madera ID	0	0	0	4679	25629	33684	31464	10677	10747	NA			116880
Soquel	0	0	0	0	0	0	0	9461	0	0			9461
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>9535</b>	<b>41279</b>	<b>54491</b>	<b>56000</b>	<b>42272</b>	<b>22291</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>225868</b>
<b>MILLERTON LAKE</b>													
County of Madera	1	2	3	3	5	7	8	7	6	6			48
Fresno County # 18	5	5	7	8	14	20	24	21	18	NA			122
Gravelly Ford WD	0	2	345	1146	740	1288	1107	1098	1551	1409			8686
<b>Total</b>	<b>6</b>	<b>9</b>	<b>355</b>	<b>1157</b>	<b>759</b>	<b>1315</b>	<b>1139</b>	<b>1126</b>	<b>1575</b>	<b>1415</b>	<b>0</b>	<b>0</b>	<b>8856</b>

\* Data supplied by Fresno Field Division, Contracts Administration Division

**Table 24**

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

**San Joaquin and Mendota Pool  
2003**

Monthly Deliveries in AF

Water User	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Fresno Slough WD	0	714	184	149	354	760	998	783	301	67			4310
Hughes, Melvin	0	21	0	0	0	19	30	23	0	0			93
James ID	0	2341	546	1066	2420	9634	9517	8224	3716	580			38044
Laguna WD	0	0	0	0	0	0	0	0	0	0			0
Dudley & Indart	0	910	301	124	490	813	727	684	224	63			4336
Mid-Valley WD (no contract)	0	0	0	368	0	0	0	0	0	0			368
Reclamation 1606	0	0	0	41	41	55	67	23	0	0			227
Terra Linda (Goodman)	0	798	624	779	816	1418	1819	1225	531	252			8262
Tranquility ID	65	5203	1071	475	2687	6364	6395	4540	928	221			27949
Wilson, JW (no contract)	0	169	18	0	0	165	200	165	48	0			765
<b>Total</b>	<b>65</b>	<b>10156</b>	<b>2744</b>	<b>3002</b>	<b>6808</b>	<b>19228</b>	<b>19753</b>	<b>15667</b>	<b>5748</b>	<b>1183</b>	<b>0</b>	<b>0</b>	<b>84354</b>
<b>Exchange Contractors</b>													
Central California ID	279	36522	<b>31255</b>	21112	36100	75416	88388	89888	28255	30485			437700
Columbia Canal Co	2	3648	5595	5451	5867	8815	10451	9376	5006	2733			56944
Firebaugh Canal Co	218	234	1258	2398	2523	3518	4025	10139	2009	1694			28016
San Luis Canal Co	0	4059	13742	8446	13050	27471	29032	26268	11214	1353			134635
<b>Total</b>	<b>499</b>	<b>44463</b>	<b>51850</b>	<b>37407</b>	<b>57540</b>	<b>115220</b>	<b>131896</b>	<b>135671</b>	<b>46484</b>	<b>36265</b>	<b>0</b>	<b>0</b>	<b>657295</b>
<b>Refuges</b>													
Grassland WD - 76.05L CCID #1-07-20-W1754	9348	12037	6037	5091	16878	6908	4223	17237	73699	30211			181669
US F&WS - Kesterson #00-WC-20-1647	4679	1243	1241	2672	0	2248	5497	302	918	9279			28079
State F&WS - DWR #00-WC-20-1647 Kern National Wildlife	1136	2139	1291	220	236	145	0	1008	3497	6329			16001
State F&G - Water Fowl Dist #1-07-20-W19756	4075	2454	1554	521	1527	2226	2733	3100	8664	9811			36665
DFG Traction Ranch - Mendota Pool #14-06-200-7859Z	497	427	315	307	546	1324	553	583	863	1347			6762
<b>Total</b>	<b>19735</b>	<b>18300</b>	<b>10438</b>	<b>8811</b>	<b>19187</b>	<b>12851</b>	<b>13006</b>	<b>22230</b>	<b>87641</b>	<b>56977</b>	<b>0</b>	<b>0</b>	<b>269176</b>

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	327	1128	125	0	0			2177
Broadview WD	1013	1646	930	480	661	2868	3126	1729	379	233			13065
CCID (Abv CK 13)	240	139	1108	748	2222	2124	2426	2039	1980	756			13782
CCID (Blw CK 13)	0	1347	4429	664	9983	13860	23806	10192	159	69			64509
Centinella WD	0	0	0	0	0	0	0	0	0	0			0
China Island (76.05)	0	1043	833	426	365	0	732	0	0	0			3399
Del Puerto WD	151	1735	3527	7750	11081	15094	18647	12104	8163	4404			82656
DWR Intertie @MP7.70-R	0	0	0	0	0	0	0	0	0	0			0
Eagle Field WD	59	425	142	50	11	548	660	499	179	6			2579
Firebaugh Canal	2202	5784	1170	454	924	6816	9547	6399	458	109			33863
Frietas Unit (76.05L)	0	1078	1258	835	795	0	904	0	0	0			4870
Mercy Springs WD	0	156	57	249	136	309	362	308	86	84			1747
Oro Loma WD	0	281	0	0	0	277	293	250	0	2			1103
Panoche WD - Ag	422	660	351	232	303	1156	1643	985	308	151			6211
Panoche WD - M&I	2	3	2	3	2	3	2	3	2	3			25
Patterson WD	0	209	354	336	866	1059	1592	939	362	279			5996
Plainview WD	19	48	211	367	464	476	559	468	386	256			3254
Salt Slough Unit (76.05L)	0	926	992	723	1021	0	1217	0	0	0			4879
San Luis WD - Ag	38	1841	812	818	797	2128	2782	1725	737	374			12052
San Luis WD - M&I	1	1	3	3	12	35	31	24	26	13			149
Tracy, City of	104	361	571	720	958	1187	1301	1306	1266	1223			8997
West Side ID	0	0	0	0	0	22	152	226	0	0			400
Widren	0	54	0	0	0	16	25	17	0	0			112
W. Stanislaus ID	0	556	1600	4081	4160	4951	8242	7180	5451	2655			38876
F&G - Los Banos Ref. 76.05L	0	1068	1168	538	1044	393	0	0	0	0			4211
Volta Wildlife Mgmt Area (F&G)	109	17	127	195	330	158	147	615	2157	1627			5482
Grasslands WD -76.05L	5851	3441	1085	725	7580	6214	2675	13777	19928	7041			68317
Grasslands WD - Volta	1286	1253	1139	0	1406	336	494	0	10350	10092			26356
F&S (Volta) Santa Fee Kest.	0	0	0	0	0	0	0	0	750	1298			2048
F&S - Kesterson 76.05L	0	665	819	512	778	0	0	0	0	0			2774
<b>Total DMC Deliveries</b>	<b>11497</b>	<b>24737</b>	<b>22688</b>	<b>21133</b>	<b>46272</b>	<b>60357</b>	<b>82493</b>	<b>60910</b>	<b>53127</b>	<b>30675</b>	<b>0</b>	<b>0</b>	<b>413889</b>
Oneill Net Pumped	222449	122252	167000	34494	(53271)	42298	(7025)	43096	76711	134563			782567
DMC plus Oneill	233946	146989	189688	55627	(6999)	102655	75468	104006	129838	165238	0	0	1196456

\* 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
<b>SAN LUIS CANAL</b>													
City of Avenal	183	166	190	191	244	284	313	289	270	255			2202
Broadview WD	4	1	0	2	1	4	3	3	2	3			19
City of Coalinga	310	423	197	501	540	899	1026	888	929	790			6193
City of Dos Palos	62	68	78	95	141	173	197	161	153	122			1188
City of Huron	43	50	64	90	83	104	123	120	154	94			882
Pacheco WD	225	399	179	126	1	1271	2742	1926	189	141			6974
Pacheco CCID Non-project (Hamburg)	457	984	537	0	1174	1615	0	0	0	0			4767
Panoche WD	3032	6457	3102	4068	4763	8981	12765	8019	1180	661			53028
San Luis WD	1677	5012	4798	5688	6803	11505	14290	8916	2728	3433			64850
Westlands WD (Federal)	54952	72952	62666	74922	91722	171127	189035	132189	49909	42143			941617
Phase I (Non-chargeable)	1	5	0	0	0	3	0	0	0	0			9
Fish & Game (Lateral 4)	1	0	1	1	2	2	2	3	3	3			18
Fish & Game (Lateral 6)	0	0	0	0	0	0	0	0	0	0			0
<b>Total</b>	<b>60947</b>	<b>86517</b>	<b>71812</b>	<b>85684</b>	<b>105474</b>	<b>195968</b>	<b>220496</b>	<b>152514</b>	<b>55517</b>	<b>47645</b>	<b>0</b>	<b>0</b>	<b>1082574</b>
<b>O'NEILL FOREBAY DELIVERIES</b>													
Oneill Forebay Wildlife	40	25	69	2	99	111	168	52	64	65			695
San Luis WD Ag	32	690	582	975	1202	1852	2298	1500	617	732			10480
San Luis M&I	37	32	21	33	61	69	94	81	82	74			584
VA Cemetary	1	4	3	4	7	9	14	16	15	7			80
<b>Total</b>	<b>110</b>	<b>751</b>	<b>675</b>	<b>1014</b>	<b>1369</b>	<b>2041</b>	<b>2574</b>	<b>1649</b>	<b>778</b>	<b>878</b>	<b>0</b>	<b>0</b>	<b>11839</b>
<b>CROSS VALLEY CANAL</b>													
County of Fresno	0	0	0	216	0	0	0	0	0	0			216
County of Tulare	0	0	0	383	0	0	0	0	0	0			383
Lower Tule River ID	0	0	0	0	0	0	0	0	0	0			0
Pixley ID	0	0	0	0	0	0	0	0	0	0			0
Kern-Tulare WD	0	0	0	1075	0	0	0	0	0	0			0
Rag Gulch WD	0	0	0	358	0	0	0	0	0	0			0
Hills-Valey ID	0	0	0	242	0	0	0	0	0	0			0
Tri-Valley ID	0	0	0	82	0	0	0	0	0	0			82
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2356</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2356</b>
<b>SAN FELIPE DIVISION</b>													
Santa Clara	3970	1985	6652	9606	9644	10827	15341	15191	929	10245			84390
San Benito	254	1407	623	397	1139	3824	5164	5079	2770	2194			22851
<b>Total</b>	<b>4224</b>	<b>3392</b>	<b>7275</b>	<b>10003</b>	<b>10783</b>	<b>14651</b>	<b>20505</b>	<b>20270</b>	<b>3699</b>	<b>12439</b>	<b>0</b>	<b>0</b>	<b>107241</b>

\* 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	12355	13246	7332	4143	3831			49911
Cortina WD	0	0	0	37	100	272	278	96	44	0			827
Davis WD	0	2	17	339	126	401	598	426	97	28			2034
Dunnigan WD	8	22	133	455	1334	3237	3495	1970	1283	476			12413
4-M Water District	0	3	7	85	225	305	406	273	230	23			1557
GCID	0	43	960	2135	3319	4905	4810	4844	3200	1218			25434
Glenn Valley WD	0	0	0	0	32	73	177	119	16	0			417
Glide WD	0	8	9	269	2498	3177	4123	2532	575	331			13522
Holthouse WD	0	7	24	109	329	403	549	384	204	96			2105
Kanawha WD	3	27	146	737	2470	7036	7815	4865	1983	729			25811
Kirkwood WD	0	0	0	0	36	111	132	113	68	51			511
La Grande WD	0	0	0	624	1247	1427	1291	1001	56	323			5969
Myers-Marsh MWC	0	0	25	47	149	261	154	0	0	0			636
Orland-Artois WD	14	120	29	518	6581	13098	15059	9912	5194	2730			53255
Westside WD	0	40	453	2326	4180	9425	8327	5463	1766	826			32806
<b>Total</b>	<b>98</b>	<b>392</b>	<b>2856</b>	<b>10160</b>	<b>27905</b>	<b>56486</b>	<b>60460</b>	<b>39330</b>	<b>18859</b>	<b>10662</b>	<b>0</b>	<b>0</b>	<b>227208</b>

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	363	304	537	373	119	143			2046
Anderson Cottonwood ID	0	0	0	6184	14829	19488	18866	18330	17583	12472			107752
Andreotti, Arthur, et al	0	0	0	0	400	707	724	631	268	0			2730
Baber, Jack, et	0	0	0	0	228	680	718	324	0	187			2137
A&R Farms (Odysseus)	0	0	0	0	15	5	53	32	40	16			161
Cannel, Fred	0	0	0	0	10	274	205	0	23	283			795
Carter, Jane	0	0	0	0	142	554	303	115	228	51			1393
Colusa Prop. Inc	0	0	0	0	10	1	98	0	0	0			109
Conaway Conservancy Group	0	0	0	0	3815	5535	6556	5484	740	2504			24634
Davis, Olive P, et al	0	0	0	1312	5674	4869	5978	5002	333	0			23168
Deseret Farms of Calif	0	0	0	0	45	287	328	176	6	0			842
Dommer, Elizabeth	0	0	0	0	0	2	3	2	2	0			9
Forry, David G, et al	0	0	0	0	112	242	518	369	125	0			1366
Forster, Rosemary	0	0	0	0	474	330	384	303	2	0			1493
Furlan Joint Venture (Area #1)	0	0	0	0	0	49	66	0	0	0			115
Furlan Joint Venture (Area #2)	0	0	0	0	0	0	0	0	0	0			0
Glenn-Colusa ID	0	0	0	<b>43449</b>	<b>123213</b>	<b>133462</b>	<b>156548</b>	<b>118732</b>	<b>38601</b>	57630			671635
Griffin, J, et al	0	0	0	0	429	550	121	174	341	0			1615
Henle Family Limited Partnership	0	0	0	14	115	215	92	5	0	0			441
Hershey Land Co	0	0	0	0	100	219	335	284	108	0			1046
Hiatt, Glenn	0	0	0	0	28	303	283	122	179	0			915
Hollins, Mariette B	0	0	0	7	194	178	210	164	11	0			764
Howald Farms	0	0	0	0	106	223	152	51	125	0			657
King, Barbara	0	0	0	0	0	2	2	2	2	0			8
Knaggs Walnut Ranches Co, L.P.	0	0	0	0	0	0	0	0	0	0			0
Lockett, William P.	0	0	0	0	0	2	144	0	0	0			146
Loma Cold Storage/J Micheli	0	0	0	18	1031	1556	686	273	0	0			3564
M&T Inc.	0	0	0	0	862	1003	1810	1419	78	1526			6698
MCM Properties, Inc	0	0	0	0	0	60	77	24	0	0			161
Maxwell ID	0	0	0	239	399	110	0	0	0	571			1319
Meridan Farms WC	0	0	0	183	2959	2992	4937	5464	1255	0			17790
Natomas Central MWC	0	0	0	1290	12566	16459	23861	17875	4112	983			77146
O'Brien, Janice	0	0	0	0	87	277	233	59	51	0			707
Oji Bros. Farms Inc	0	0	0	129	346	674	782	370	172	0			2473
Oji, Mitsue Family PTN	0	0	0	0	278	1045	642	0	0	0			1965
Pelger Mutual WC	0	0	0	98	1413	1330	620	581	93	1015			5150
Pleasant Grove-Verona MWC	0	0	0	0	1966	3217	4413	2672	457	0			12725
Princeton,-Codora-Glenn ID	0	0	0	2992	11804	11486	13726	9582	2759	5865			58214
Provident Irrigation District	0	0	0	3210	12461	11187	13824	5903	266	10107			56958
Reclamation Dist #108	0	0	0	2087	26250	31745	38176	26084	3987	3930			132259
Reclamation Dist #1004	0	0	0	943	9726	10597	15947	12054	4045	11768			65080
Reynen, John, et al	0	0	0	0	807	976	1668	1223	82	0			4756
River Garden Farms	0	0	0	396	4160	4473	4350	3782	1084	337			18582
Roberts Ditch Irrigation Co	0	0	0	0	368	765	1113	790	354	0			3390
Sartain Mutual WC	0	0	0	0	276	462	508	292	0	0			1538
Siddiqui, J & A & Siddiqui Family Plan	0	0	0	0	2	69	162	212	94	7			546
Spence, Ruth Ann	0	0	0	0	0	0	0	0	0	0			0
Sutter Mutual WC	0	0	0	3787	28891	38509	46943	42932	11650	1737			174449
Swinford Tract Irrigation Co	0	0	0	0	0	0	27	23	0	0			50
Tarke, James, et al	0	0	0	0	184	328	375	336	79	0			1302
Tisdale Irrigation & Drain	0	0	0	45	1096	1853	1834	1606	576	0			7010
Wallace Construction, Inc.	0	0	0	0	0	0	300	187	0	0			487
Wells, Joyce M	0	0	0	8	210	237	279	217	15	1			967
Wilson Ranch Partnership	0	0	0	0	0	0	0	0	0	0			0
Windswept Land & Livestock Co.	0	0	0	0	75	412	297	35	0	11			830
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>66598</b>	<b>268519</b>	<b>310303</b>	<b>370814</b>	<b>284670</b>	<b>90045</b>	<b>111144</b>			<b>1502093</b>

\* 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
<b>Sacramento River</b>												
Shasta computed inflow	17179	8836	11080	13642	13087	5613	4017	3314	3531	3428		
At Keswick	13500	9498	4232	7639	16172	12924	13830	10311	7694	6797		
At Bend Bridge	25382	13674	12271	12384	22852	14627	14595	11091	8212	7345		
At Vina Bridge	38278	17020	11719	14887	26386	15700	14762	11023	8076	7380		
At Ord Ferry	35335	15687	12185	14171	24485	12350	11271	8840	7289	5829		
At Colusa	30523	17735	12519	13086	21861	11352	9701	7832	6618	5029		
Below Wilkins Slough	24623	17618	12638	12632	18827	10231	8228	6821	6583	5176		
At Verona	46013	29817	20277	19263	35128	18772	20194	17847	14420	9659		
Sacramento at "I" Street	49929	33707	22335	20590	39805	22640	22828	20190	16025	11547		
<b>Miscellaneous Stations</b>												
Folsom computed inflow	3942	3227	3683	5851	8030	4130	1938	1557	1568	844		
American R at Nimbus Dam	2626	4300	2019	2043	5621	4216	3322	2697	1788	1968		
Kings River at Pine Flat	111	94	401	706	2069	6585	6506	1775	1396	835		
<b>San Joaquin River</b>												
At Friant Dam	104	103	114	146	162	386	250	226	236	202		
Near Vernalis	2211	2198	2191	2573	2569	2109	1397	1337	1331	1960		
<b>Putah Creek</b>												
Berryessa computed inflow	1328	564	736	750	473	28	1	-7	-16	-43		
Putah Creek - Lake Solano	26	195	337	281	481	43	43	34	26	25		
<b>Stanislaus River</b>												
New Melones computed inflow	1068	962	1143	1710	2529	2459	961	767	747	396		
At Tulloch Dam	305	533	1123	1697	1941	2625	2149	1775	1184	717		
At Orange Blossom	212	539	454	726	695	1046	426	460	428	590		

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