

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

**CENTRAL VALLEY OPERATIONS OFFICE**

**REPORT OF OPERATIONS**



December 2003

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## SUMMARY OF DECEMBER 2003 OPERATIONS

Sacramento had an average monthly temperature of 50.4 °F which was 2.7 °F above normal. The average temperature at Shasta Dam was 45.7 °F which was .9 °F below normal and Huntington Lake was .2 °F above normal with an average temperature of 36.4 °F.

Trinity System: Storage in Trinity Lake increased 105,700 acre-feet this month to 1,806,200 acre-feet, which is 74 percent of capacity and 122 percent of the 15 year average for this date. The total inflow for the month was 138,811 acre-feet. The Trinity River release were 300 ft<sup>3</sup>/s. Whiskeytown Lake was operated between elevations 1198.04 feet and 1198.89 feet with an end-of-month storage of 206,500 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 20,365 acre-feet.

Shasta-Keswick: Storage in Shasta Lake increased 255,500 acre-feet for an end-of-month storage of 3,346,000 acre-feet, which is 74 percent of capacity and 123 percent of the 15 year average. The total inflow for the month was 697,196 acre-feet. The release to the Sacramento River at Keswick ranged between 4,500 and 15,000 ft<sup>3</sup>/s for the month.

Folsom-Nimbus: Storage in Folsom Lake increased 33,500 acre-feet and had an end-of-month storage of 532,500 acre-feet, which is 55 percent of capacity and 133 percent of the 15 year average for this date. The total inflow for the month was 169,956 acre-feet. The release to the American River at Nimbus were 2,000 ft<sup>3</sup>/s during the month.

New Melones: Storage in New Melones increased 42,200 acre-feet for an end-of-month storage of 1,317,700 acre-feet or 54 percent of capacity and 108 percent of the 15 year average. The release to the Stanislaus River at Goodwin Dam were 250 ft<sup>3</sup>/s for the month. The total inflow for the month was 55,016 acre-feet.

Delta-San Luis: Federal storage in San Luis Reservoir on December 31, 2004, was 701,000 acre-feet compared to the storage a year ago of 690,000 acre-feet.

Friant: Storage in Millerton Lake increased 34,765 acre-feet to 253,200 acre-feet. The total monthly inflow was 50,006 acre-feet. The release to the San Joaquin River at Friant varied between 108 and 134 ft<sup>3</sup>/s.

CVP Totals: The total diversions to CVP canals were 266,562 acre-feet. The December 31, 2004, storage in the 18 CVP reservoirs was 7,704,000 acre-feet compared to storage 1 year ago of 7,384,000 acre-feet.

Power: Gross power production for the CVP totaled 291,571 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	12/31/03	12/31/02	WATERSHED	RESERVOIR	TOTAL CAPACITY	12/31/03	12/31/02
KLAMATH	CLEAR LAKE *	526,800	75,550	96,460	AMERICAN	FOLSOM LAKE *CVP	1,010,300	532,510	537,550
	GERBER *	94,300	15,190	15,730		LAKE NATOMA *CVP	9,030	8,180	7,960
	UPR KLAMATH LK *	873,300	207,930	254,600	COSUMNES	JENKINSON LK *CVP	41,000	30,470	27,670
TRINITY	CLAIR ENGLE LK*CVP	2,447,700	1,806,180	1,575,140	MOKELUMNE	CAMANCHE	431,500	64,290	262,310
	LEWISTON LAKE*CVP	14,660	13,810	14,200		PARDEE	210,000	172,270	170,440
	WHISKEYTOWN *CVP	241,100	206,480	214,510	SALT SPRINGS	140,000	38,900	47,650	
MCCLOUD	MCCLOUD DIV. RES	35,230	22,500	32,300	CALAVERAS	NEW HOGAN	317,100	105,270	134,500
PIT	IRON CANYON	24,240	4,550	6,090		NEW MELONES*CVP	2,420,000	1,317,740	1,358,260
	LAKE BRITTON	40,620	33,550	39,560		BEARDSLEY	97,800	65,770	32,340
	PIT NO. 6	15,890	9,600	15,120	STANISLAUS	DONNELLS	64,320	18,900	6,570
	PIT NO. 7	34,610	30,710	33,170	TULLOCH	67,000	55,310	54,150	
SACRAMENTO	SHASTA LAKE *CVP	4,552,000	3,345,960	3,223,200	TUOLUMNE	LAKE ELEANOR	26,100	16,640	3,180
	SPRING CREEK *CVP	5,900	1,040	6,080		LAKE LLOYD	268,000	225,560	212,000
	KESWICK *CVP	23,800	22,010	21,670		HETCH-HETCHY	360,400	252,620	238,220
	RED BLUFF DIV *CVP	3,920	880	1,210	NEW DON PEDRO	2,030,000	1,481,370	1,299,230	
FEATHER	OROVILLE	3,538,000	2,248,200	1,624,340	TURLOCK LAKE	49,000	18,540	18,540	
	THERMALITO DIV RES	13,500	12,960	13,130	MERCED	EXCHEQUER	1,024,600	387,530	306,530
	THERMALITO FORE.	14,400	10,390	71,080		BUCHANAN	150,000	17,980	16,770
	THERMALITO AFTER.	57,000	24,380	27,040	CRANE VALLEY	45,400	25,850	22,800	
	LAKE ALMANOR	1,143,000	784,940	761,730	LAKE T.A. EDISON	125,000	52,120	49,740	
STONY CREEK	EAST PARK *	50,900	49,360	35,410	FLORENCE LAKE	64,600	1,190	1,000	
	STONY GORGE *	50,000	38,000	41,320	SAN JOAQUIN	MAMMOTH POOL	122,700	27,550	23,340
	BLACK BUTTE *CVP	143,700	32,200	59,580		HUNTINGTON LAKE	89,800	32,410	44,030
LAKE BERRYESSA *	1,602,300	1,523,990	1,494,820	REDINGER LAKE		35,000	24,550	23,810	
PUTAH CREEK	LAKE SOLANO *	720	570	560	SHAVER LAKE	135,400	114,050	113,380	
	BULLARDS BAR	930,000	626,090	608,850	MILLERTON LK *CVP	520,500	253,180	306,850	
YUBA	SO. YUBA SYSTEM	146,000	41,670	49,320	FRESNO	HIDDEN	90,000	11,760	14,540
	NARROWS	70,000	64,290	66,820		SAN LUIS **CVP	2,040,600	1,316,540	1,010,090
BEAR	ROLLINS	65,990	64,880	65,990		O'NEILL FORE.**CVP	56,400	43,670	43,230
LITTLE TRUCKEE	STAMPEDE *	226,620	134,500	113,200	SAN LUIS	L BANOS RES**CVP	34,560	18,850	20,460
	BOCA *	41,140	4,700	4,800		LT PANOCHE **CVP	5,580	720	830
PROSSER	PROSSER CREEK *	29,840	9,900	7,800	OIL CANYON	CONTRA LOMA *CVP	2,100	1,760	2,130
TRUCKEE	LAKE TAHOE *	732,000	3,900	72,800	KINGS	WISHON	128,300	48,290	42,630
	RYE PATCH *	190,000	12,500	12,400		PINE FLAT	1,001,500	210,540	261,660
HUMBOLDT					KAWEAH	TERMINUS	143,000	15,590	12,960
CARSON	LAHONTAN *	317,280	112,000	114,700	TULE	SUCCESS	82,300	11,590	11,560
	TWIN LAKES	21,600	12,750	13,840	KERN	ISABELLA	588,100	148,500	138,220
	FRENCH MEADOWS	136,400	62,070	69,170	CUYAMA	TWITCHELL *	240,100	NA	5,160
AMERICAN	HELL HOLE	207,590	128,350	123,230	SANTA YNEZ	LAKE CACHUMA *	190,500	107,040	124,920
	LOON LAKE	76,500	36,880	31,430	COYOTE	LAKE CASITAS *	254,000	179,460	195,060
	ICE HOUSE	46,000	29,890	25,090	<b>Total - 85 Reservoirs</b>		<b>33,790,040</b>	<b>19,499,550</b>	<b>18,436,660</b>
	UNION VALLEY	277,300	166,300	163,860	<b>Total - 36 USBR Reservoirs</b>		<b>18,992,650</b>	<b>11,426,770</b>	<b>11,020,360</b>
	SLAB CREEK	16,600	12,890	13,040	<b>Total - 18 CVP Reservoirs</b>		<b>13,572,850</b>	<b>8,952,180</b>	<b>8,430,620</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	175910	62560	132990	310671	282698	315692	189329	115828	103888	98192	170617	2,236,972
Net	278111	175636	62415	132926	310581	282576	315525	189195	115681	103579	97790	170237	2,234,252
<b>Keswick</b>													
Gross	55129	38973	19917	28204	57453	54658	57745	44194	32517	28885	23514	36823	478,012
Net	54976	38786	19787	27921	57319	54532	57617	44068	32391	28755	23370	36668	476,190
<b>Trinity</b>													
Gross	5793	30014	31281	18298	86019	87879	64913	76895	72895	55471	20887	11918	562,263
Net	5503	29838	31091	18119	85820	87748	64798	76767	72777	55373	20778	11803	560,415
<b>JF Carr</b>													
Gross	1299	36119	33295	15518	44015	56560	50310	78287	74465	66867	21146	7929	485,810
Net	1158	35994	33208	15440	43864	56446	50222	78179	74366	66775	21080	7737	484,469
<b>Spring Creek PP</b>													
Gross	40239	41695	45430	23751	58145	55387	47246	77682	70513	63001	32548	22514	578,151
Net	40072	41553	45293	23627	58003	55259	47132	77547	70397	62892	32454	22362	576,591
<b>Folsom</b>													
Gross	43898	62787	32737	34784	96407	72312	62072	48398	30636	34378	32978	32613	584,000
Net	43691	62621	32556	34616	96235	72107	61879	48210	30446	34203	32777	32381	581,722
<b>Nimbus</b>													
Gross	5709	7685	4186	4071	9870	7517	7110	5683	3785	4315	4140	4069	68,140
Net	5668	7644	4143	4049	9851	7493	7099	5667	3764	4297	4119	4037	67,831
<b>New Melones</b>													
Gross	6307	12197	30784	44388	53047	67830	55169	46551	27629	12905	3938	5088	365,833
Net	6213	12101	30680	44254	52903	67671	55018	46412	27507	12784	3835	4967	364,345
<b>O'Neill</b>													
Gross	0	0	0	523	2016	102	501	144	0	0	0	0	3,286
Net	0	0	0	435	2022	7	308	28	0	0	0	0	2,800
<b>Fed San Luis</b>													
Out Meter	0	0	0	17817	36464	14928	44089	19588	1288	0	0	0	134,174
<b>Gross Generation</b>	436,971	405,380	260,190	320,344	754,107	699,871	704,847	586,751	429,556	369,710	237,343	291,571	5,496,641
<b>Net Generation</b>	435,392	404,173	259,173	319,204	753,062	698,767	703,687	585,661	428,617	368,658	236,203	290,192	5,482,789
<b>Stampede (Gross)</b>	398	1,075	312	2,045	2,311	494	1,579	501	583	347	274	1,150	11,069
<b>Stampede (Net)</b>	371	1,046	288	2,016	2,290	484	1,565	486	565	329	250	1,117	10,807
<b><u>Energy in mwh</u></b>													
<b>Tracy</b>													
Tot Energy	61295	54825	61731	24949	20517	60303	59314	61633	57853	61126	59192	58778	641,516
Fed Off-Pk	29012	25474	29228	12274	9188	28879	28189	29372	27872	28085	29439	28173	305,185
<b>O'Neill</b>													
Tot Energy	12985	7203	9849	2869	341	2668	501	2840	4537	7786	11799	13234	76,612
Fed Off-Pk	6183	3393	4698	1381	117	1336	256	1420	2293	3582	5894	6363	36,916
<b>San Luis</b>													
Fed Energy	61979	32737	54490	2299	36	124	132	991	14244	23058	49543	60258	299,891
Fed Off-Pk	60284	32707	54415	2224	36	79	102	991	14169	22953	49423	60198	297,581
<b>Dos Amigos</b>													
Fed Energy	6543	12352	10650	12771	12180	15096	32814	22662	8115	7661	7098	2619	150,561
Fed Off-Pk	5295	8316	7635	8190	8475	9771	18384	13482	6105	6131	5808	2619	100,211
<b>Banks - Fed</b>													
Fed Energy	0	0	0	0	0	0	0	0	1664	0	0	0	1,664
Fed Off-Pk	0	0	0	0	0	0	0	0	104	0	0	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	127,632	134,889	1,170,244
<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	90,564	97,353	739,997

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

DECEMBER 2003

SHASTA LAKE DAILY OPERATIONS

RUN DATE: March 12, 2004

DAY	ELEV	STORAGE		COMPUTED* INFLOW C.F.S.	RELEASE - C.F.S.			EVAPORATION		PRECIP INCHES
		1000 ACRE-FEET IN LAKE	CHANGE		POWER	RIVER SPILL	OUTLET	C.F.S.	INCHES	
		3,090.2								
1	1,011.86	3,094.6	+4.4	6,164	3,918	0	0	34	.05	.67
2	1,012.03	3,098.5	+3.9	5,887	3,858	0	0	48	.07	.52
3	1,012.12	3,100.6	+2.1	5,296	4,235	0	0	7	.01	.24
4	1,012.22	3,102.9	+2.3	5,339	4,155	0	0	14	.02	.01
5	1,012.57	3,111.0	+8.1	7,959	3,863	0	0	0	.00	.58
6	1,014.60	3,158.4	+47.4	26,566	2,674	0	0	0	.00	2.56
7	1,015.51	3,179.8	+21.4	13,055	2,262	0	0	0	.00	3.81
8	1,015.90	3,189.0	+9.2	8,154	3,510	0	0	7	.01	.01
9	1,016.31	3,198.7	+9.7	8,556	3,636	0	0	28	.04	.00
10	1,016.75	3,209.2	+10.4	8,938	3,647	0	0	35	.05	.00
11	1,017.17	3,219.1	+10.0	8,458	3,290	0	0	140	.20	.20
12	1,017.65	3,230.6	+11.4	9,873	4,045	0	0	63	.09	.25
13	1,018.51	3,251.1	+20.5	14,366	3,965	0	0	42	.06	1.41
14	1,020.51	3,299.2	+48.1	25,926	1,681	0	0	0	.00	2.90
15	1,021.19	3,315.6	+16.4	12,409	4,092	0	0	43	.06	.00
16	1,021.38	3,320.2	+4.6	10,287	7,903	0	0	64	.09	.00
17	1,021.46	3,322.2	+1.9	8,924	7,933	0	0	14	.02	.00
18	1,021.37	3,320.0	-2.2	7,272	8,307	0	0	64	.09	.00
19	1,021.43	3,321.4	+1.5	8,798	7,979	0	0	86	.12	.00
20	1,021.44	3,321.7	+0.2	8,326	8,096	0	0	107	.15	.90
21	1,021.40	3,320.7	-1.0	7,339	7,828	0	0	0	.00	.02
22	1,021.10	3,313.4	-7.3	6,700	10,264	0	0	100	.14	.00
23	1,020.78	3,305.7	-7.7	9,632	13,526	0	0	0	.00	.00
24	1,022.45	3,346.2	+40.5	30,571	10,162	0	0	0	.00	3.28
25	1,022.82	3,355.2	+9.0	18,271	13,730	0	0	0	.00	.01
26	1,022.66	3,351.3	-3.9	12,791	14,396	0	0	359	.50	.00
27	1,022.29	3,342.3	-9.0	10,719	14,902	0	0	358	.50	.00
28	1,022.09	3,337.4	-4.9	11,615	14,020	0	0	50	.07	.00
29	1,022.36	3,344.0	+6.6	13,112	9,798	0	0	0	.00	.92
30	1,022.34	3,343.5	-0.5	9,608	9,854	0	0	0	.00	1.40
31	1,022.44	3,346.0	+2.4	10,587	9,331	0	0	29	.04	.01
<b>TOTALS</b>			<b>+255.5</b>	<b>351,498</b>	<b>220,860</b>	<b>0</b>	<b>0</b>	<b>1,692</b>	<b>2.38</b>	<b>19.70</b>
<b>ACRE-FEET</b>			<b>+255,500</b>	<b>697,196</b>	<b>438,076</b>	<b>0</b>	<b>0</b>	<b>3,356</b>		

COMMENTS:

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

SUMMARY

	RELEASE (ACRE-FEET)			PRECIPITATION	
POWER	438,076	OUTLET	0	THIS MONTH =	19.70
SPILL	0	TOTAL	438,076	JULY 1, 2003 TO DATE =	32.17

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

DECEMBER 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)	
		1,700.6								
1	2,319.30	1,702.3	+1.7	1,641	783	0	0	0	.00	.28
2	2,319.44	1,704.1	+1.8	1,193	270	0	0	0	.00	.22
3	2,319.56	1,705.7	+1.6	1,071	271	0	0	8	.02	.01
4	2,319.62	1,706.4	+0.8	1,320	916	0	0	8	.02	.00
5	2,319.82	1,709.1	+2.6	2,024	705	0	0	0	.00	.57
6	2,320.72	1,720.9	+11.8	6,423	464	0	0	0	.00	.78
7	2,321.40	1,729.8	+9.0	4,699	161	0	0	19	.05	.78
8	2,321.68	1,733.5	+3.7	2,247	371	0	0	12	.03	.07
9	2,321.79	1,735.0	+1.5	1,800	1,063	0	0	4	.01	.00
10	2,321.93	1,736.8	+1.8	1,289	357	0	0	0	.00	.38
11	2,322.04	1,738.3	+1.5	1,230	496	0	0	0	.00	.01
12	2,322.15	1,739.8	+1.5	1,646	898	0	0	12	.03	.46
13	2,322.37	1,742.7	+2.9	2,145	674	0	0	0	.00	1.29
14	2,323.12	1,752.6	+10.0	5,230	211	0	0	0	.00	.78
15	2,323.51	1,757.8	+5.2	2,819	187	0	0	12	.03	.01
16	2,323.73	1,760.8	+2.9	1,746	264	0	0	4	.01	.00
17	2,323.85	1,762.4	+1.6	1,533	723	0	0	4	.01	.00
18	2,323.90	1,763.0	+0.7	1,218	874	0	0	8	.02	.00
19	2,323.99	1,764.2	+1.2	1,693	1,081	0	0	8	.02	.00
20	2,324.15	1,766.4	+2.1	1,948	865	0	0	4	.01	.88
21	2,324.30	1,768.4	+2.0	1,330	302	0	0	16	.04	.01
22	2,324.39	1,769.6	+1.2	1,452	845	0	0	0	.00	.01
23	2,324.56	1,771.9	+2.3	1,499	348	0	0	4	.01	.14
24	2,325.30	1,781.8	+9.9	5,339	337	0	0	0	.00	.95
25	2,325.84	1,789.0	+7.3	3,966	298	0	0	8	.02	.06
26	2,326.13	1,792.9	+3.9	2,263	289	0	0	4	.01	.00
27	2,326.33	1,795.6	+2.7	1,660	298	0	0	0	.00	.00
28	2,326.55	1,798.6	+3.0	1,819	309	0	0	12	.03	.00
29	2,326.93	1,803.7	+5.1	2,953	354	0	0	12	.03	.00
30	2,327.07	1,805.6	+1.9	1,265	310	0	0	0	.00	2.25
31	2,327.11	1,806.2	+0.5	1,522	1,249	0	0	0	.00	.00
<b>TOTALS</b>			<b>+105.7</b>	<b>69,983</b>	<b>16,573</b>	<b>0</b>	<b>0</b>	<b>159</b>	<b>.40</b>	<b>9.94</b>
<b>ACRE-FEET</b>			<b>+105,700</b>	<b>138,811</b>	<b>32,873</b>	<b>0</b>	<b>0</b>	<b>315</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	32,873	OUTLET	0	PRECIPITATION	
SPILL	0	TOTAL	32,873	THIS MONTH =	9.94
				JULY 1, 2003 TO DATE =	17.02

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

DECEMBER 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.			EVAP. C.F.S. INCHES	PRECIP INCHES		
						TO CLEAR CR (1) OUTLETS	SPILL	TO SPRING CR. PP				
		206.5										
1	1,198.89	206.8	+0.3	907	529	378	200	0	558	0	.00	.90
2	1,198.63	206.1	-0.8	389	118	271	200	0	575	0	.00	.56
3	1,198.30	205.1	-1.0	238	118	120	200	0	528	0	.00	.02
4	1,198.37	205.3	+0.2	809	559	250	200	0	505	0	.00	.03
5	1,198.39	205.4	+0.1	757	489	268	200	0	527	0	.00	.76
6	1,198.89	206.8	+1.5	1,920	402	1,518	200	0	977	0	.00	.73
7	1,198.25	204.9	-1.9	858	118	740	200	0	1,608	0	.00	.67
8	1,198.26	205.0	+0.0	698	382	316	200	0	483	0	.00	.04
9	1,198.29	205.1	+0.1	943	550	393	200	0	699	0	.00	.02
10	1,198.23	204.9	-0.2	639	235	404	200	0	528	0	.00	1.49
11	1,198.25	204.9	+0.1	778	504	274	200	0	548	0	.00	.15
12	1,198.39	205.4	+0.4	920	551	369	200	0	512	0	.00	.30
13	1,198.77	206.5	+1.1	1,296	477	819	200	0	532	0	.00	.25
14	1,198.59	205.9	-0.5	1,970	118	1,852	200	0	2,037	0	.00	.76
15	1,198.25	204.9	-1.0	906	118	788	200	0	1,211	0	.00	.01
16	1,198.12	204.6	-0.4	575	118	457	200	0	564	4	.05	.00
17	1,198.18	204.7	+0.2	850	519	331	200	0	548	13	.15	.00
18	1,198.29	205.1	+0.3	892	616	276	200	0	529	0	.00	.00
19	1,198.59	205.9	+0.9	1,147	680	467	200	0	501	0	.00	.00
20	1,198.79	206.5	+0.6	1,053	630	423	200	0	556	0	.00	.33
21	1,198.50	205.7	-0.9	464	0	464	200	0	695	0	.00	.02
22	1,198.47	205.6	-0.1	887	546	341	200	0	725	6	.07	.00
23	1,198.25	204.9	-0.6	881	118	763	200	0	1,008	0	.00	.14
24	1,198.07	204.4	-0.5	3,400	118	3,282	200	0	3,468	0	.00	3.80
25	1,198.04	204.3	-0.1	1,579	118	1,461	200	0	1,423	0	.00	.04
26	1,198.20	204.8	+0.5	970	118	852	200	0	533	0	.00	.00
27	1,198.19	204.8	+0.0	733	118	615	200	0	545	3	.03	.00
28	1,198.22	204.9	+0.1	751	118	633	200	0	507	0	.00	.00
29	1,198.22	204.9	+0.0	715	118	597	200	0	515	0	.00	.00
30	1,198.05	204.4	-0.5	444	231	213	200	0	497	0	.00	1.20
31	1,198.77	206.5	+2.1	1,802	833	969	200	0	533	0	.00	.00
<b>TOTALS</b>			<b>+0.0</b>	<b>31,171</b>	<b>10,267</b>	<b>20,904</b>	<b>6,200</b>	<b>0</b>	<b>24,975</b>	<b>26</b>	<b>.30</b>	<b>12.22</b>
<b>ACRE-FEET</b>			<b>+0.0</b>	<b>61,828</b>	<b>20,365</b>	<b>41,463</b>	<b>12,298</b>	<b>0</b>	<b>49,538</b>	<b>52</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	49,538	OUTLET	12,298	THIS MONTH	12.22
SPILL	0	TOTAL	61,836	JULY 1, 2003 TO DATE	21.65



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

Table 6

DECEMBER 2003

LEWISTON LAKE DAILY OPERATIONS

RUN DATE: January 2, 2004

DAY	ELEV	STORAGE		COMPUTED* INFLOW C.F.S.	RELEASE - C.F.S.			JUDGE FRANCIS CARR POWERPLANT	EVAPORATION (2)	
		IN LAKE	CHANGE		POWER	RIVER OUTLETS (1)	SPILL		C.F.S.	INCHES
		14,038								
1	1,901.40	14,210	+172	916	80	90	130	529	0	.00
2	1,901.28	14,120	-90	373	80	90	130	118	0	.00
3	1,901.20	14,061	-59	388	80	90	130	118	0	.02
4	1,901.36	14,180	+119	919	80	90	130	559	0	.02
5	1,901.47	14,263	+83	831	80	90	130	489	0	.00
6	1,901.39	14,203	-60	672	80	90	130	402	0	.00
7	1,901.07	13,963	-240	298	80	90	130	118	1	.05
8	1,900.57	13,595	-368	497	80	90	130	382	1	.03
9	1,901.41	14,218	+623	1,164	80	90	130	550	0	.01
10	1,901.25	14,098	-120	475	80	90	130	235	0	.00
11	1,900.60	13,617	-481	560	80	98	121	504	0	.00
12	1,901.30	14,135	+518	1,113	80	100	120	551	1	.03
13	1,901.45	14,248	+113	834	80	90	130	477	0	.00
14	1,901.54	14,315	+67	452	80	90	130	118	0	.00
15	1,901.33	14,158	-157	340	80	100	120	118	1	.03
16	1,901.29	14,128	-30	404	80	100	120	118	1	.05
17	1,901.16	14,031	-97	770	80	100	120	519	0	.01
18	1,900.94	13,867	-164	833	80	100	120	616	0	.02
19	1,901.25	14,098	+231	1,096	80	90	130	680	0	.02
20	1,901.10	13,986	-112	874	80	90	130	630	0	.01
21	1,900.96	13,882	-104	249	80	90	130	0	1	.04
22	1,901.01	13,918	+36	864	80	90	130	546	0	.00
23	1,901.06	13,956	+38	437	80	90	130	118	0	.00
24	1,901.22	14,076	+120	478	80	90	130	118	0	.00
25	1,901.18	14,046	-30	403	80	100	120	118	0	.02
26	1,901.04	13,941	-105	365	80	90	130	118	0	.01
27	1,900.92	13,852	-89	373	80	90	130	118	0	.00
28	1,900.91	13,845	-7	415	80	100	120	118	1	.03
29	1,901.09	13,978	+133	484	1	90	207	118	1	.03
30	1,900.71	13,698	-280	390	0	90	210	231	0	.00
31	1,900.86	13,808	+110	1,188	0	90	210	833	0	.00
<b>TOTALS</b>			<b>-230</b>	<b>19,455</b>	<b>2,241</b>	<b>2,868</b>	<b>4,188</b>	<b>10,267</b>	<b>8</b>	<b>.43</b>
<b>ACRE-FEET</b>			<b>-230</b>	<b>38,589</b>	<b>4,445</b>	<b>5,689</b>	<b>8,307</b>	<b>20,365</b>	<b>16</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	4,445	JUDGE FRANCIS CARR POWERPLANT
TOTAL RIVER	18,441	TOTAL RELEASE
		20,365
		38,806

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

Table 7

DECEMBER 2003

SPRING CREEK DEBRIS RESERVOIR DAILY OPERATIONS

RUN DATE: January 2, 2004

DAY	ELEV	STORAGE		COMPUTED* INFLOW C.F.S.	RELEASE - C.F.S.		— SPRING CR DEBRIS DAM —		**KES COPPER MG/L
		IN LAKE	CHANGE		SPILL	OUTLET	TIME	COPPER	
		1,192							
1	720.81	1,215	+23	27	0	15			
2	720.69	1,211	-4	18	0	20			
3	719.79	1,178	-33	8	0	25			
4	718.81	1,143	-35	7	0	25			
5	718.39	1,129	-14	18	0	25			
6	728.18	1,500	+371	212	0	25			
7	729.16	1,541	+41	46	0	25			
8	728.87	1,529	-12	19	0	25			
9	728.54	1,515	-14	18	0	25			
10	729.04	1,536	+21	36	0	25			
11	729.03	1,535	-1	24	0	25			
12	729.44	1,552	+17	34	0	25			
13	732.03	1,662	+110	80	0	25			
14	738.03	1,935	+273	164	0	26			
15	737.98	1,933	-2	41	0	42			
16	736.47	1,862	-71	39	0	75			
17	733.44	1,724	-138	11	0	81			
18	729.50	1,555	-169	5	0	90			
19	725.52	1,393	-162	8	0	90			
20	721.55	1,242	-151	14	0	90			
21	716.75	1,073	-169	5	0	90			
22	712.50	936	-137	-2	0	67			
23	713.80	977	+41	61	0	40			
24	730.20	1,584	+607	384	0	78			
25	728.90	1,530	-54	73	0	100			
26	725.44	1,390	-140	29	0	100			
27	720.91	1,219	-171	14	0	100			
28	717.08	1,084	-135	8	0	76			
29	717.07	1,083	-1	49	0	50			
30	715.00	1,015	-68	16	0	50			
31	715.80	1,041	+26	63	0	50			
<b>TOTALS</b>			<b>-151</b>	<b>1,529</b>	<b>0</b>	<b>1,605</b>			
<b>ACRE-FEET</b>			<b>-151</b>	<b>3,033</b>	<b>0</b>	<b>3,184</b>			

COMMENTS:

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

SUMMARY

RELEASE (ACRE-FEET)	
SPILL	0
OUTLET	3,184
TOTAL	3,184

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

Table 8

DECEMBER 2003

KESWICK RESERVOIR DAILY OPERATIONS

RUN DATE: January 2, 2004

DAY	ELEV	STORAGE ACRE-FEET RES.	CHANGE	COMPUTED* INFLOW C.F.S.	SPRING CR. P. P. RELEASE	SHASTA RELEASE C.F.S	POWER	RELEASE - C.F.S. SPILL	FISHTRAP	EVAP C.F.S. (1)
		22,131								
1	583.86	21,805	-326	4,832	558	3,918	4,995	0	0	1
2	583.26	21,441	-364	4,623	575	3,858	4,806	0	0	1
3	583.91	21,835	+394	4,836	528	4,235	4,637	0	0	0
4	584.42	22,149	+314	4,788	505	4,155	4,630	0	0	0
5	584.61	22,266	+117	4,612	527	3,863	4,553	0	0	0
6	584.88	22,433	+167	4,756	977	2,674	4,672	0	0	0
7	584.03	21,909	-524	4,188	1,608	2,262	4,452	0	0	0
8	583.29	21,459	-450	4,199	483	3,510	3,306	1,119	0	1
9	583.39	21,520	+61	4,527	699	3,636	3,679	816	0	1
10	583.67	21,690	+170	4,629	528	3,647	4,542	0	0	1
11	582.46	20,961	-729	4,192	548	3,290	4,558	0	0	2
12	583.60	21,647	+686	4,897	512	4,045	4,549	0	0	2
13	585.22	22,645	+998	5,064	532	3,965	4,560	0	0	1
14	584.97	22,488	-157	4,683	2,037	1,681	4,762	0	0	0
15	583.37	21,508	-980	5,742	1,211	4,092	6,235	0	0	1
16	582.93	21,241	-267	8,901	564	7,903	9,034	0	0	2
17	582.45	20,955	-286	8,914	548	7,933	9,053	0	5	0
18	583.13	21,362	+407	9,246	529	8,307	9,039	0	0	2
19	582.83	21,182	-180	8,951	501	7,979	9,041	0	0	1
20	582.96	21,259	+77	9,073	556	8,096	9,031	0	0	3
21	582.72	21,116	-143	8,957	695	7,828	9,029	0	0	0
22	581.97	20,668	-448	11,050	725	10,264	11,274	0	0	2
23	579.86	19,445	-1,223	14,097	1,008	13,526	14,714	0	0	0
24	578.23	18,537	-908	14,034	3,468	10,162	14,492	0	0	0
25	578.67	18,780	+243	14,467	1,423	13,730	14,344	0	0	0
26	579.36	19,164	+384	14,795	533	14,396	14,593	0	0	8
27	581.17	20,200	+1,036	15,292	545	14,902	14,717	0	52	1
28	579.81	19,417	-783	14,354	507	14,020	14,663	0	85	1
29	580.93	20,060	+643	10,736	515	9,798	9,633	694	85	0
30	583.37	21,508	+1,448	10,910	497	9,854	10,095	0	85	0
31	584.19	22,007	+499	10,421	533	9,331	10,083	0	85	1
<b>TOTALS</b>			<b>-124</b>	<b>254,766</b>	<b>24,975</b>	<b>220,860</b>	<b>251,771</b>	<b>2,629</b>	<b>397</b>	<b>32</b>
<b>ACRE-FEET</b>			<b>-124</b>	<b>505,328</b>	<b>49,538</b>	<b>438,076</b>	<b>499,388</b>	<b>5,215</b>	<b>787</b>	<b>63</b>

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

**SUMMARY**  
 RELEASE (ACRE-FEET)

POWER	499,388
SPILL	5,215
FISH TRAP	787

**DECEMBER 2003**      **RED BLUFF DIVERSION RESERVOIR DAILY OPERATIONS**      RUN DATE: January 2, 2004

DAY	ELEVATION	STORAGE		RELEASE C.F.S		RELEASE TO SACTO RIVER
		IN LAKE	ACRE-FEET CHANGE	CORNING CANAL	TEHAMA COLUSA CANAL	
		311				
1	238.74	323	+12	0	0	7,010
2	238.80	330	+7	12	0	7,575
3	239.03	354	+24	25	0	7,385
4	238.65	314	-40	0	0	6,410
5	238.55	304	-10	0	0	6,500
6	239.50	410	+106	0	0	11,122
7	241.97	758	+348	0	0	22,842
8	240.17	493	-265	0	0	12,196
9	239.12	364	-129	0	0	7,529
10	239.03	354	-10	0	0	13,622
11	240.05	477	+123	0	0	12,113
12	239.81	447	-30	0	0	9,644
13	239.60	422	-25	0	0	15,632
14	241.79	730	+308	0	0	20,172
15	242.08	777	+47	0	0	13,988
16	239.66	429	-348	0	0	12,984
17	240.48	536	+107	0	0	12,106
18	240.27	507	-29	0	0	11,742
19	240.15	491	-16	0	0	11,467
20	240.20	498	+7	0	0	13,102
21	240.88	591	+93	0	0	11,993
22	240.45	532	-59	0	0	11,968
23	240.27	507	-25	0	0	11,742
24	240.15	491	-16	0	0	11,467
25	243.93	1,116	+625	0	0	32,196
26	243.06	948	-168	0	0	18,700
27	242.28	811	-137	0	0	18,211
28	242.30	815	+4	0	0	18,642
29	242.29	813	-2	0	0	25,800
30	247.98	2,130	+1,317	0	0	45,799
31	242.65	875	-1,255	0	0	19,674
<b>TOTALS</b>			<b>+564</b>	<b>37</b>	<b>0</b>	<b>461,333</b>
<b>ACRE-FEET</b>			<b>+564</b>	<b>73</b>	<b>0</b>	<b>915,054</b>

**SUMMARY**

RELEASE (ACRE-FEET)

CORNING CANAL	73
TEHAMA-COLUSA CANAL	0
TO SACTO RIVER	915,054
TOTAL	915,127

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

DAILY OPERATION OF BLACK BUTTE RESERVOIR, STONY CREEK, CALIFORNIA

DECEMBER 2003

Date	Midnight	Storage (ac-ft)	Storage Change (ac-ft)	Mean Inflow (sfd)	Mean Outflow -----				Gross Evap (ac-ft)	Pan Evap (in)	Prec (in)	Total U S Storage (ac-ft)	Top Con Storage (ac-ft)
	Elev (ft)				Total	River	[1]	[2]					
1	441.01	33595	757	413	31	31	0	0	0	0	1.08	79263	27500
2	441.49	34516	921	496	30	30	0	0	3	0.02	0	79994	26500
3	441.68	34885	369	220	30	30	0	0	8	0.05	0	80529	26000
4	441.88	35276	391	228	30	30	0	0	2	0.01	0.25	80215	26300
5	442.34	36186	910	504	31	31	0	0	28	0.18	0.28	80205	26300
6	443.02	37556	1370	724	31	31	0	0	5	0.03	0.24	81413	25200
7	443.98	39550	1994	1044	31	31	0	0	16	0.1	0	81562	25000
8	444.79	41289	1739	914	31	31	0	0	13	0.08	0	80900	25600
9	445.64	43170	1881	980	32	32	0	0	0	0	1.37	81391	25600
10	446.79	45800	2630	1416	88	88	0	0	4	0.02	0.11	82244	24400
11	447.27	46926	1126	1068	497	497	0	0	7	0.04	0.02	81831	24700
12	446.92	46103	-823	929	1344	1344	0	0	0	0	0.29	81497	24900
13	446.67	45521	-582	1668	1959	1959	0	0	5	0.03	0.51	83076	23300
14	446.76	45730	209	2922	2003	2003	0	0	1613	9	0	86265	20100
15	446.2	44438	-1292	1331	1978	1978	0	0	9	0.05	0	86604	20100
16	445.31	42433	-2005	1048	2054	2054	0	0	10	0.06	0	86343	20200
17	444.3	40230	-2203	946	2053	2053	0	0	8	0.05	0	85776	20700
18	443.18	37883	-2347	865	2043	2043	0	0	11	0.07	0	84983	21500
19	442.07	35650	-2233	917	2043	2043	0	0	0	0	0.81	85791	21100
20	441.72	34963	-687	1707	2050	2050	0	0	6	0.04	0.24	87011	20200
21	441.05	33671	-1292	1399	2044	2044	0	0	13	0.09	0	87290	19700
22	440.36	32371	-1300	1101	1755	1755	0	0	3	0.02	0.01	86970	19900
23	440.58	32782	411	1785	1578	1578	0	0	0	0	1.69	89238	18600
24	443.94	39465	6683	6280	2906	2906	0	0	10	0.06	0.07	88466	19300
25	444.07	39740	275	4326	4177	4177	0	0	20	0.12	0	87543	19700
26	442.43	36365	-3375	2315	4012	4012	0	0	9	0.06	0	86476	20600
27	439.71	31176	-5189	1410	4024	4024	0	0	4	0.03	0	86469	20500
28	436.04	25109	-6067	940	3998	3998	0	0	2	0.02	1.15	87286	20200
29	439.94	31596	6487	7531	4261	4261	0	0	0	0	0.94	88680	19800
30	442.01	35532	3936	6460	4473	4473	0	0	5	0.03	0	87365	19800
31	440.27	32204	-3328	2863	4541	4541	0	0	0	0	0.04	86266	21100
Totals	(sfd)			56750	56158	56158	0	0					
Totals	(ac-ft)		-634	112564	111389.4	111389.4			1814				
Totals	(inches)									10.26	9.1		

[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

DECEMBER 2003

FOLSOM LAKE DAILY OPERATIONS

RUN DATE: January 2, 2004

DAY	ELEV	STORAGE		COMPUTED* INFLOW C.F.S.	POWER	RELEASE - C.F.S.			EVAPORATION		PRECIP INCHES	
		1000 ACRE-FEET IN LAKE	CHANGE			RIVER SPILL	OUTLET	PUMPING PLANT	C.F.S.	INCHES		
		499.0										
1	416.13	496.9	-2.1	1,205	2,202	0	0	82	0	.00	.20	
2	415.80	494.3	-2.6	899	2,122	0	0	78	11	.04	.65	
3	415.50	491.9	-2.4	1,051	2,139	0	0	89	11	.04	.00	
4	415.14	489.1	-2.8	910	2,235	0	0	92	8	.03	.00	
5	414.83	486.6	-2.4	1,097	2,225	0	0	91	3	.01	.08	
6	414.63	485.1	-1.6	1,455	2,149	0	0	90	0	.00	.07	
7	415.01	488.0	+3.0	3,715	2,127	0	0	94	3	.01	.69	
8	415.00	488.0	-0.1	2,194	2,116	0	0	102	16	.06	.00	
9	414.86	486.9	-1.1	1,876	2,308	0	0	101	16	.06	.00	
10	414.91	487.3	+0.4	2,416	2,137	0	0	83	0	.00	.48	
11	415.26	490.0	+2.7	3,593	2,099	0	0	86	26	.10	.53	
12	415.44	491.4	+1.4	2,839	2,028	0	0	90	8	.03	.01	
13	415.70	493.5	+2.0	3,229	2,110	0	0	90	0	.00	.64	
14	416.28	498.0	+4.6	4,482	2,074	0	0	90	11	.04	.41	
15	416.77	501.9	+3.9	4,072	1,994	0	0	95	24	.09	.10	
16	417.00	503.8	+1.8	3,084	2,053	0	0	98	13	.05	.00	
17	417.02	503.9	+0.2	2,295	2,119	0	0	92	3	.01	.00	
18	416.87	502.7	-1.2	1,774	2,282	0	0	87	5	.02	.00	
19	416.91	503.0	+0.3	2,433	2,178	0	0	87	8	.03	.00	
20	416.87	502.7	-0.3	2,080	2,149	0	0	86	5	.02	.43	
21	416.95	503.4	+0.6	2,549	2,124	0	0	94	11	.04	.62	
22	417.01	503.8	+0.5	2,462	2,113	0	0	98	11	.04	.62	
23	417.12	504.7	+0.9	2,651	2,115	0	0	92	0	.00	.01	
24	417.67	509.1	+4.4	4,341	2,041	0	0	80	0	.00	.20	
25	418.87	518.8	+9.7	6,844	1,884	0	0	85	0	.00	.71	
26	419.38	522.9	+4.1	4,190	2,007	0	0	87	5	.02	.00	
27	419.49	523.8	+0.9	2,701	2,161	0	0	77	11	.04	.00	
28	419.54	524.2	+0.4	2,463	2,172	0	0	77	8	.03	.00	
29	419.91	527.3	+3.0	3,634	2,036	0	0	77	0	.00	.00	
30	420.30	530.5	+3.2	3,874	2,175	0	0	78	6	.02	1.06	
31	420.55	532.5	+2.1	3,277	2,153	0	0	78	8	.03	.00	
<b>TOTALS</b>			<b>+33.5</b>	<b>85,685</b>	<b>65,827</b>	<b>0</b>	<b>0</b>	<b>2,726</b>	<b>231</b>	<b>.86</b>	<b>7.51</b>	
<b>ACRE-FEET</b>			<b>+33,500</b>	<b>169,956</b>	<b>130,568</b>	<b>0</b>	<b>0</b>	<b>5,407</b>	<b>458</b>			

COMMENTS:

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

SUMMARY

	RELEASE (ACRE-FEET)			PRECIPITATION	
POWER	130,568	OUTLET	0	THIS MONTH =	7.51
SPILL	0	TOTAL	135,975	JULY 1, 2003 TO DATE =	10.12
PUMPING PLANT	5,407				

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

Table 12

DECEMBER 2003

LAKE NATOMA DAILY OPERATIONS

RUN DATE: January 2, 2004

DAY	ELEV	STORAGE		COMPUTED* INFLOW C.F.S.	FOLSOM SOUTH CANAL	RELEASE - C.F.S.			EVAP C.F.S. (1)
		ACRE-FEET IN LAKE	CHANGE			POWER	SPILL	HATCHERY	
1	124.04	8,195	+86	2,091	45	1,943	0	60	0
2	123.90	8,281	-67	2,015	45	1,943	0	60	1
3	123.73	8,214	-80	2,008	45	1,942	0	60	1
4	123.89	8,134	+75	2,086	45	1,943	0	60	0
5	123.91	8,209	+10	2,055	45	1,945	0	60	0
6	123.92	8,219	+4	2,050	45	1,943	0	60	0
7	123.82	8,176	-47	2,016	45	1,935	0	60	0
8	123.62	8,082	-94	2,002	45	1,943	0	60	1
9	124.04	8,281	+199	2,144	45	1,938	0	60	1
10	124.05	8,286	+5	2,037	40	1,934	0	60	0
11	124.20	8,361	+75	2,076	35	1,942	0	60	1
12	123.73	8,134	-227	1,925	35	1,944	0	60	0
13	123.90	8,214	+80	2,074	35	1,939	0	60	0
14	123.94	8,233	+19	2,052	35	1,946	0	60	1
15	123.43	7,993	-240	1,908	36	1,932	0	60	1
16	123.06	7,819	-174	1,952	41	1,938	0	60	1
17	122.97	7,778	-41	2,027	45	1,943	0	60	0
18	123.32	7,941	+163	2,125	45	1,938	0	60	0
19	123.28	7,923	-18	2,040	45	1,944	0	60	0
20	123.50	8,026	+103	2,097	42	1,943	0	60	0
21	123.54	8,045	+19	2,055	43	1,941	0	60	1
22	123.44	7,998	-47	2,014	35	1,942	0	60	1
23	123.29	7,927	-71	1,995	26	1,945	0	60	0
24	123.59	8,068	+141	2,083	8	1,944	0	60	0
25	122.88	7,737	-331	1,849	12	1,944	0	60	0
26	122.52	7,575	-162	1,937	20	1,939	0	60	0
27	122.56	7,593	+18	2,028	20	1,938	0	60	1
28	122.70	7,656	+63	2,068	28	1,948	0	60	0
29	123.19	7,880	+224	2,145	35	1,937	0	60	0
30	123.70	8,120	+240	2,163	35	1,947	0	60	0
31	123.83	8,181	+61	2,065	35	1,939	0	60	0
<b>TOTALS</b>			<b>-14</b>	<b>63,182</b>	<b>1,136</b>	<b>60,182</b>	<b>0</b>	<b>1,860</b>	<b>11</b>
<b>ACRE-FEET</b>			<b>-14</b>	<b>125,321</b>	<b>2,253</b>	<b>119,371</b>	<b>0</b>	<b>3,689</b>	<b>22</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	119,371	FOLSOM SOUTH CANAL	2,253	TOTAL	125,313
SPILL	0	HATCHERY	3,689		

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

DECEMBER 2003

**NEW MELONES LAKE DAILY OPERATIONS**

RUN DATE: March 12, 2004

DAY	ELEV	STORAGE		COMPUTED* INFLOW C.F.S.	RELEASE - C.F.S.			EVAPORATION		PRECIP INCHES
		1000 ACRE-FEET IN LAKE	CHANGE		POWER	SPILL	OUTLET	C.F.S.	INCHES	
		1,275.7								
1	977.82	1,276.1	+0.4	375	139	0	0	24	.09	.00
2	977.79	1,275.9	-0.3	345	453	0	0	19	.07	.11
3	977.86	1,276.5	+0.6	334	0	0	0	38	.14	.01
4	977.77	1,275.7	-0.8	338	714	0	0	5	.02	.00
5	977.88	1,276.6	+0.9	479	0	0	0	14	.05	.18
6	977.76	1,275.6	-1.0	702	1,210	0	0	0	.00	.21
7	978.01	1,277.7	+2.1	1,061	0	0	0	3	.01	.98
8	978.13	1,278.7	+1.0	556	0	0	0	46	.17	.02
9	978.22	1,279.5	+0.8	387	0	0	0	5	.02	.00
10	978.46	1,281.5	+2.0	1,020	0	0	0	0	.00	.64
11	978.67	1,283.3	+1.8	892	0	0	0	0	.00	.75
12	978.80	1,284.4	+1.1	580	0	0	0	27	.10	.10
13	978.94	1,285.6	+1.2	600	0	0	0	5	.02	.52
14	979.17	1,287.5	+1.9	1,017	0	0	0	36	.13	.64
15	979.13	1,287.2	-0.3	636	793	0	0	14	.05	.14
16	979.25	1,288.2	+1.0	531	0	0	0	19	.07	.00
17	979.37	1,289.2	+1.0	534	0	0	0	22	.08	.02
18	979.44	1,289.8	+0.6	603	296	0	0	8	.03	.00
19	979.59	1,291.1	+1.3	944	290	0	0	14	.05	.00
20	979.81	1,292.9	+1.9	977	0	0	0	38	.14	.34
21	980.03	1,294.8	+1.9	955	0	0	0	16	.06	.08
22	980.05	1,295.0	+0.2	1,027	922	0	0	19	.07	.01
23	980.28	1,296.9	+2.0	994	0	0	0	8	.03	.00
24	980.76	1,301.0	+4.1	2,059	0	0	0	3	.01	.60
25	981.32	1,305.8	+4.8	2,427	0	0	0	22	.08	1.43
26	981.62	1,308.3	+2.6	1,302	8	0	0	3	.01	.42
27	981.86	1,310.4	+2.0	1,048	12	0	0	3	.01	.01
28	982.09	1,312.3	+2.0	1,008	0	0	0	17	.06	.00
29	982.39	1,314.9	+2.6	1,307	0	0	0	11	.04	.01
30	982.80	1,318.4	+3.5	2,412	427	0	0	214	.77	.13
31	982.72	1,317.7	-0.7	287	590	0	0	42	.15	.03
<b>TOTALS</b>			<b>+42.2</b>	<b>27,737</b>	<b>5,854</b>	<b>0</b>	<b>0</b>	<b>695</b>	<b>2.53</b>	<b>7.38</b>
<b>ACRE-FEET</b>			<b>+42,200</b>	<b>55,016</b>	<b>11,611</b>	<b>0</b>	<b>0</b>	<b>1,379</b>		

COMMENTS:

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

**SUMMARY**

	RELEASE (ACRE-FEET)			PRECIPITATION	
POWER	11,611	OUTLET	0	THIS MONTH =	7.38
SPILL	0	TOTAL	11,611	JULY 1, 2003 TO DATE =	10.20



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

DECEMBER 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
		RES.					MAIN	MAIN
		539						
1	360.05	541	+2	277	0	243	5	0
2	360.05	541	+0	275	0	247	5	0
3	360.03	539	-2	279	0	255	5	0
4	360.05	541	+2	282	0	283	5	0
5	360.08	543	+2	279	0	280	4	0
6	360.05	541	-2	278	0	282	5	0
7	360.05	541	+0	264	0	249	5	0
8	360.05	541	+0	264	0	250	3	0
9	360.03	539	-2	261	0	248	0	0
10	360.03	539	+0	260	0	250	0	0
11	360.03	539	+0	261	0	251	0	0
12	360.03	539	+0	261	0	247	0	0
13	360.03	539	+0	261	0	249	0	0
14	360.03	539	+0	260	0	252	0	0
15	360.03	539	+0	257	0	250	0	0
16	360.03	539	+0	243	0	246	0	0
17	360.03	539	+0	245	0	248	0	0
18	360.03	539	+0	248	0	253	0	0
19	360.03	539	+0	247	0	253	0	0
20	360.03	539	+0	244	0	248	0	0
21	360.03	539	+0	243	0	247	0	0
22	360.03	539	+0	244	0	247	0	0
23	360.03	539	+0	243	0	247	0	0
24	360.03	539	+0	237	0	247	0	0
25	360.03	539	+0	236	0	251	0	0
26	360.03	539	+0	241	0	247	0	0
27	360.03	539	+0	246	0	249	0	0
28	360.03	539	+0	244	0	249	0	0
29	360.03	539	+0	238	0	247	0	0
30	360.03	539	+0	240	0	248	0	0
31	360.03	539	+0	243	0	250	0	0
<b>TOTALS</b>			<b>+0</b>	<b>7,901</b>	<b>0</b>	<b>7,813</b>	<b>37</b>	<b>0</b>
<b>ACRE-FEET</b>			<b>+0</b>	<b>15,672</b>	<b>0</b>	<b>15,497</b>	<b>73</b>	<b>0</b>

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

**SUMMARY**  
 RELEASE (ACRE-FEET)

JOINT MAIN CANAL	73	OUTLET	0
SOUTH MAIN CANAL	0	SPILL	15,497
		TOTAL	15,570

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

DECEMBER 2003

**MILLERTON LAKE DAILY OPERATIONS**

RUN DATE: March 12, 2004

DAY	ELEV	STORAGE 1000 ACRE-FEET IN LAKE CHANGE		COMPUTED* INFLOW C.F.S.	RELEASE - C.F.S.				EVAPORATION C.F.S.	PRECIP INCHES	
					CANALS		RIVER				
					MADERA	FRIANT-KERN	SPILL	OUTLET			
		218.4									
1	501.20	219.2	+0.8	737	0	203	0	134	11	.11	
2	501.67	220.6	+1.4	1,060	0	204	0	134	16	.17	
3	501.81	221.0	+0.4	558	0	205	0	134	9	.09	
4	502.22	222.2	+1.2	964	0	205	0	134	7	.07	
5	502.52	223.1	+0.9	796	0	206	0	134	2	.02	
6	502.91	224.3	+1.2	926	0	201	0	134	1	.01	
7	503.26	225.4	+1.1	867	0	198	0	134	2	.02	
8	503.71	226.7	+1.4	1,011	0	199	0	119	6	.06	
9	503.95	227.5	+0.7	684	0	200	0	109	8	.08	
10	504.47	229.0	+1.6	1,116	0	201	0	109	7	.07	
11	504.94	230.5	+1.4	1,040	0	202	0	109	6	.06	
12	505.27	231.5	+1.0	828	0	203	0	108	6	.06	
13	505.40	231.9	+0.4	521	0	204	0	108	7	.07	
14	505.77	233.0	+1.1	777	0	85	0	108	10	.10	
15	506.37	234.9	+1.9	1,063	0	0	0	108	20	.20	
16	506.86	236.4	+1.5	881	0	0	0	109	6	.06	
17	507.25	237.6	+1.2	850	0	121	0	109	7	.07	
18	507.49	238.4	+0.8	701	0	209	0	109	5	.05	
19	507.65	238.9	+0.5	582	0	209	0	110	11	.11	
20	507.80	239.3	+0.5	433	0	87	0	110	0	.00	
21	508.13	240.4	+1.0	634	0	0	0	110	2	.02	
22	508.45	241.4	+1.0	626	0	0	0	110	8	.08	
23	508.77	242.4	+1.0	626	0	0	0	110	7	.07	
24	509.38	244.3	+1.9	1,090	0	0	0	110	6	.06	
25	510.26	247.1	+2.8	1,525	0	0	0	110	3	.03	
26	510.69	248.5	+1.4	805	0	0	0	110	3	.03	
27	511.07	249.7	+1.2	730	0	0	0	110	7	.07	
28	511.37	250.7	+1.0	599	0	0	0	110	2	.02	
29	511.67	251.6	+1.0	730	0	127	0	110	6	.06	
30	511.86	252.2	+0.6	646	0	219	0	110	9	.09	
31	512.15	253.2	+0.9	805	0	219	0	111	2	.02	
<b>TOTALS</b>			<b>+34.8</b>	<b>25,211</b>	<b>0</b>	<b>3,907</b>	<b>0</b>	<b>3,574</b>	<b>202</b>	<b>2.03</b>	<b>2.84</b>
<b>ACRE-FEET</b>			<b>+34,765</b>	<b>50,006</b>	<b>0</b>	<b>7,750</b>	<b>0</b>	<b>7,089</b>	<b>401</b>		

COMMENTS:

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

**SUMMARY**

	RELEASE (ACRE-FEET)				PRECIPITATION
CANALS		RIVER			
FRIANT-KERN	7,750	AT FRIANT	7,089	THIS MONTH =	2.84
MADERA	0	TOTAL RELEASES	14,839	JULY 1, 2003 TO DATE =	4.09

Table 16

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

**December 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-Dec-03	11,910	235	0	356	1,550	1,553	1,538	14,051	1,087	2,480	4,340	29	0	82	6,931	6,836	6,033	5,379	6,033	48.5%	49.4%	47.9%
2-Dec-03	12,350	235	0	364	1,538	1,546	1,533	14,487	631	1,483	4,341	21	0	77	5,922	6,496	7,934	5,832	6,983	40.2%	46.0%	45.8%
3-Dec-03	13,789	235	0	373	1,528	1,539	1,526	15,925	631	1,998	4,327	17	0	78	6,420	6,323	8,874	6,413	7,614	39.7%	42.7%	44.5%
4-Dec-03	15,088	235	0	370	1,511	1,527	1,512	17,204	681	2,495	4,339	20	0	88	6,941	6,328	9,582	6,899	8,106	39.7%	39.9%	44.0%
5-Dec-03	16,385	235	0	371	1,470	1,506	1,490	18,461	274	2,491	4,358	23	0	94	6,966	6,670	11,221	7,625	8,729	37.1%	38.8%	45.5%
6-Dec-03	16,791	235	0	377	1,401	1,490	1,480	18,804	731	2,494	4,379	30	0	90	6,992	6,852	11,081	8,528	9,121	36.5%	37.7%	45.8%
7-Dec-03	16,048	235	0	376	1,430	1,473	1,473	18,089	-360	2,992	4,384	26	0	91	7,492	7,032	10,958	9,383	9,383	40.8%	38.1%	46.1%
8-Dec-03	16,378	235	0	419	1,430	1,459	1,469	18,462	-1,273	453	4,361	32	0	85	4,932	6,354	14,804	10,636	10,061	26.1%	34.4%	40.8%
9-Dec-03	19,185	235	0	569	1,445	1,443	1,463	21,434	-1,273	458	3,784	35	0	75	4,352	5,477	18,355	12,125	10,982	19.8%	28.3%	33.9%
10-Dec-03	23,618	235	0	457	1,413	1,430	1,458	25,723	-767	491	3,087	33	0	77	3,688	4,211	22,801	14,114	12,164	13.9%	19.3%	24.8%
11-Dec-03	22,705	235	0	464	1,418	1,432	1,461	24,822	-4,646	972	2,723	16	0	70	3,781	3,839	25,687	16,415	13,394	14.9%	16.0%	21.6%
12-Dec-03	21,519	235	0	547	1,487	1,445	1,464	23,788	-3,049	1,983	2,771	21	0	77	4,852	4,009	21,985	17,953	14,110	20.0%	16.2%	21.7%
13-Dec-03	23,984	235	0	532	1,494	1,452	1,465	26,245	-2,364	2,991	3,405	28	0	77	6,500	4,948	22,109	19,528	14,725	24.4%	19.8%	25.5%
14-Dec-03	25,988	235	0	513	1,480	1,459	1,466	28,216	-2,364	3,998	4,212	30	0	75	8,315	6,454	22,265	21,144	15,263	29.1%	24.7%	31.6%
15-Dec-03	26,354	235	0	705	1,473	1,464	1,467	28,767	-5,103	6,623	4,397	28	0	76	11,124	8,542	22,746	22,278	15,762	38.3%	30.8%	39.8%
16-Dec-03	29,839	235	0	696	1,485	1,472	1,467	32,255	-767	6,676	4,291	26	0	74	11,066	10,066	21,956	22,793	16,149	34.0%	33.8%	44.3%
17-Dec-03	34,939	235	0	529	1,464	1,476	1,466	37,167	-767	6,024	4,393	33	0	77	10,527	10,801	27,407	23,451	16,812	28.0%	33.0%	44.5%
18-Dec-03	34,413	235	0	474	1,447	1,469	1,464	36,569	-589	5,168	4,379	32	0	83	9,662	10,310	27,496	23,709	17,405	26.1%	29.2%	40.2%
19-Dec-03	31,098	235	0	451	1,438	1,461	1,463	33,222	-589	4,911	4,307	30	0	85	9,333	9,727	24,478	24,065	17,777	27.7%	27.3%	36.5%
20-Dec-03	28,832	235	0	448	1,438	1,464	1,465	30,953	552	5,280	4,345	22	0	81	9,728	9,463	20,672	23,860	17,922	31.1%	28.2%	34.3%
21-Dec-03	27,463	235	0	460	1,503	1,470	1,467	29,661	274	6,339	4,336	14	0	69	10,758	9,839	18,629	23,340	17,956	36.0%	31.5%	34.7%
22-Dec-03	27,017	235	0	476	1,515	1,473	1,469	29,243	46	6,329	4,340	49	0	73	10,790	10,323	18,407	22,721	17,976	36.5%	34.5%	35.4%
23-Dec-03	28,508	235	0	547	1,505	1,479	1,471	30,795	-4	7,125	4,359	40	0	68	11,593	10,943	19,206	22,328	18,030	37.3%	36.6%	36.7%
24-Dec-03	28,987	235	0	515	1,510	1,489	1,472	31,247	-1,145	7,146	4,288	15	0	64	11,513	11,196	20,879	21,395	18,148	36.6%	36.8%	37.1%
25-Dec-03	28,661	235	3,500	603	1,515	1,509	1,477	34,514	-1,880	7,146	4,232	24	0	64	11,467	11,433	24,927	21,028	18,420	33.0%	35.5%	37.0%
26-Dec-03	33,039	235	189	1,183	1,577	1,539	1,483	36,223	-1,651	7,146	4,312	32	0	68	11,557	11,424	26,317	21,291	18,723	31.6%	33.6%	35.9%
27-Dec-03	39,707	235	0	961	1,648	1,564	1,490	42,551	-1,473	6,444	4,343	30	0	72	10,888	11,207	33,136	23,072	19,257	25.3%	29.7%	34.0%
28-Dec-03	42,352	235	0	698	1,680	1,583	1,496	44,965	-1,473	6,308	4,305	29	0	77	10,718	10,952	35,720	25,513	19,845	23.6%	26.6%	32.1%
29-Dec-03	43,942	235	0	601	1,644	1,602	1,501	46,422	-382	6,785	4,316	19	0	79	11,199	10,833	35,605	27,970	20,389	23.9%	24.3%	30.6%
30-Dec-03	43,103	235	8,330	689	1,640	1,634	1,509	53,997	-3,171	5,288	4,346	45	0	78	9,757	10,449	47,411	31,999	21,289	17.8%	21.6%	28.3%
31-Dec-03	43,733	235	4,416	826	1,733	1,668	1,517	50,943	-3,221	3,867	4,323	59	0	59	8,308	9,642	45,856	35,567	22,082	16.1%	19.1%	25.4%
Total	827,725	7,285	16,435	16,950	46,810	46,568	45,938	915,205	-33,405	132,384	128,423	888	0	2,379	264,074	258,980	684,536	578,357	460,610	933.8%	963.1%	1126.2%
Average	26,701	235	530	547	1,510	1,502	1,482	29,523	-1,078	4,270	4,143	29	0	77	8,519	8,354	22,082	18,657		30.1%	31.1%	36.3%

**DECEMBER 2003 CONSOLIDATED STATE-FEDERAL SAN LUIS RESERVOIR DAILY OPERATIONS** RUN DATE: January 2, 2004

DAY	ELEV	STORAGE		SAN LUIS PUMPING C.F.S.	RELEASE - C.F.S.			GAIN(+) OR LOSS(-) C.F.S.	EVAPORATION		PRECIP INCHES
		IN LAKE	CHANGE		POWER	PACHECO TUNNEL	SPILL		C.F.S.	INCHES	
		1,122,517									
1	464.53	1,119,815	-2,702	2,588	3,586	190	0	-175	0	.00	.05
2	465.07	1,125,429	+5,614	3,833	652	179	0	-171	27	.08	.00
3	465.34	1,128,239	+2,810	3,383	1,761	186	0	-20	20	.06	.00
4	465.14	1,126,157	-2,082	2,399	3,248	176	0	-24	24	.07	.00
5	464.79	1,122,517	-3,640	3,738	5,399	174	0	+0	0	.00	.23
6	464.98	1,124,492	+1,975	3,566	2,380	177	0	-13	0	.04	.00
7	465.17	1,126,469	+1,977	3,571	2,445	176	0	+47	0	.00	.07
8	465.62	1,131,156	+4,687	5,159	2,295	172	0	-328	51	.15	.00
9	465.47	1,129,593	-1,563	3,940	4,447	169	0	-112	27	.08	.00
10	465.04	1,125,117	-4,476	2,219	4,482	165	0	+172	24	.07	.04
11	465.11	1,125,845	+728	3,120	2,523	164	0	-66	24	.07	.18
12	464.74	1,121,997	-3,848	2,225	4,268	165	0	+268	30	.09	.00
13	464.82	1,122,829	+832	1,736	1,512	166	0	+361	0	.00	.01
14	465.12	1,125,949	+3,120	3,648	1,346	157	0	-572	0	.00	.17
15	465.84	1,133,450	+7,501	4,199	0	163	0	-254	68	.20	.00
16	467.25	1,148,185	+14,735	8,081	0	173	0	-478	17	.05	.00
17	468.69	1,163,297	+15,112	8,241	0	165	0	-457	17	.05	.00
18	469.65	1,173,407	+10,110	6,224	666	204	0	-257	10	.03	.00
19	470.11	1,178,261	+4,854	3,457	816	233	0	+40	17	.05	.00
20	470.74	1,184,920	+6,659	4,479	640	235	0	-246	10	.03	.36
21	471.55	1,193,498	+8,578	6,146	1,395	231	0	-196	14	.04	.10
22	472.33	1,201,778	+8,280	4,647	0	230	0	-242	10	.03	.00
23	473.22	1,211,248	+9,470	5,242	0	222	0	-246	7	.02	.05
24	474.22	1,221,916	+10,668	5,579	0	212	0	+12	0	.00	.11
25	475.94	1,240,334	+18,418	9,515	0	207	0	-22	0	.00	.35
26	476.95	1,251,223	+10,889	6,201	0	200	0	-512	35	.10	.44
27	478.62	1,269,262	+18,039	9,703	0	202	0	-406	4	.01	.00
28	480.21	1,286,516	+17,254	9,170	0	195	0	-276	7	.02	.00
29	481.27	1,298,061	+11,545	5,828	0	200	0	+193	39	.11	.00
30	482.40	1,310,407	+12,346	6,954	0	189	0	-540	4	.01	1.20
31	482.96	1,316,540	+6,133	4,526	1,533	145	0	+245	7	.02	.00
<b>TOTALS</b>			<b>+194,023</b>	<b>153,317</b>	<b>45,394</b>	<b>5,822</b>	<b>0</b>	<b>-4,275</b>	<b>493</b>	<b>1.48</b>	<b>3.36</b>
<b>ACRE-FEET</b>			<b>+194,023</b>	<b>304,104</b>	<b>90,039</b>	<b>11,548</b>	<b>0</b>	<b>-8,479</b>	<b>978</b>		

**SUMMARY**

RELEASE (ACRE-FEET)		PRECIPITATION	
POWER	90,039	SPILL	0
PACHECO TUNNEL	11,548	TOTAL	101,587
		THIS MONTH =	3.36
		JULY 1, 2003 TO DATE =	4.43

DECEMBER 2003

CONSOLIDATED STATE-FEDERAL O'NEILL FOREBAY  
DAILY OPERATIONS

RUN DATE: January 2, 2004

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		
		42,738									
1	222.13	48,730	+5,992	3,840	3,586	2,106	0	2,588	3,881		-43
2	220.33	44,009	-4,721	3,808	652	1,624	0	3,833	4,814		+182
3	219.70	42,376	-1,633	3,733	1,761	1,977	0	3,383	4,925		+14
4	221.00	45,760	+3,384	3,786	3,248	2,030	0	2,399	4,947		-11
5	223.00	51,046	+5,286	3,838	5,399	2,005	0	3,738	4,714		-125
6	222.40	49,447	-1,599	3,876	2,380	1,857	0	3,566	5,288		-66
7	221.85	47,992	-1,455	3,896	2,445	1,753	0	3,571	5,035		-221
8	220.13	43,489	-4,503	3,944	2,295	818	0	5,159	4,238		+71
9	220.40	44,192	+703	3,815	4,447	374	0	3,940	4,254		-88
10	221.01	45,787	+1,595	2,821	4,482	65	0	2,219	4,266		-79
11	220.14	43,515	-2,272	2,126	2,523	1,140	0	3,120	3,992		+177
12	220.99	45,734	+2,219	2,220	4,268	1,740	0	2,225	4,618		-266
13	221.79	47,835	+2,101	3,038	1,512	2,600	0	1,736	4,538		+184
14	221.80	47,861	+26	3,426	1,346	3,416	0	3,648	4,787		+261
15	222.80	50,513	+2,652	3,819	0	5,235	0	4,199	4,155		+637
16	222.00	48,385	-2,128	3,860	0	6,914	0	8,081	4,184		+417
17	220.13	43,489	-4,896	3,818	0	5,064	0	8,241	3,639		+529
18	219.50	41,862	-1,627	3,953	666	4,701	0	6,224	4,375		+458
19	219.95	43,023	+1,161	3,966	816	3,911	0	3,457	4,972		+321
20	220.23	43,749	+726	3,914	640	5,235	0	4,479	5,174		+230
21	220.46	44,348	+599	3,896	1,395	5,374	0	6,146	4,522		+306
22	221.04	45,865	+1,517	3,911	0	5,916	0	4,647	4,714		+299
23	222.68	50,193	+4,328	3,890	0	6,477	0	5,242	3,443		+500
24	223.60	52,652	+2,459	3,857	0	6,566	0	5,579	4,088		+483
25	221.90	48,124	-4,528	3,889	0	6,771	0	9,515	3,865		+437
26	222.98	50,993	+2,869	3,784	0	5,851	0	6,201	2,747		+760
27	221.14	46,128	-4,865	3,848	0	6,447	0	9,703	3,591		+546
28	219.87	42,815	-3,313	3,863	0	6,139	0	9,170	2,978		+475
29	220.73	45,054	+2,239	3,730	0	5,630	0	5,828	2,810		+407
30	219.94	42,997	-2,057	3,870	0	5,241	0	6,954	3,508		+314
31	220.20	43,671	+674	3,826	1,533	2,805	0	4,526	3,461		+163
<b>TOTALS</b>			<b>+933</b>	<b>113,861</b>	<b>45,394</b>	<b>117,782</b>	<b>0</b>	<b>153,317</b>	<b>130,523</b>		<b>+7,272</b>
<b>ACRE-FEET</b>			<b>+933</b>	<b>225,843</b>	<b>90,039</b>	<b>233,621</b>	<b>0</b>	<b>304,104</b>	<b>258,892</b>	<b>0</b>	<b>14,424</b>

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

SUMMARY  
RELEASE (ACRE-FEET)

O'NEILL GEN.	0	DOS AMIGOS PUMP	258,892
SAN LUIS PUMP	304,104	DELIVERIES	0
		TOTAL	562,996

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

Table 19

DECEMBER 2003

FEDERAL-STATE OPERATIONS  
 SAN LUIS UNIT

RUN DATE: January 2, 2004

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	GENER TOTAL	
1	4,178	0	4,178	7,617	0	7,617	0	5,246	-112	5,134	0	7,113	7,113	376	982	6,715	7,697
2	3,221	0	3,221	7,554	0	7,554	0	7,577	25	7,602	0	1,294	1,294	355	999	8,550	9,549
3	3,921	0	3,921	7,404	0	7,404	0	6,661	50	6,711	0	3,493	3,493	368	978	8,790	9,768
4	4,026	0	4,026	7,509	0	7,509	0	4,923	-165	4,758	0	6,442	6,442	350	962	8,851	9,813
5	3,976	0	3,976	7,613	0	7,613	0	7,599	-185	7,414	0	10,708	10,708	346	961	8,389	9,350
6	3,684	0	3,684	7,688	0	7,688	0	7,243	-170	7,073	0	4,721	4,721	351	984	9,504	10,488
7	3,477	0	3,477	7,727	0	7,727	0	5,425	1,658	7,083	0	4,849	4,849	350	1,040	8,946	9,986
8	1,622	0	1,622	7,822	0	7,822	0	5,032	5,200	10,232	0	4,552	4,552	342	963	7,444	8,407
9	741	0	741	7,568	0	7,568	0	7,292	523	7,815	0	8,820	8,820	336	944	7,493	8,437
10	128	0	128	5,595	0	5,595	0	4,400	1	4,401	0	8,891	8,891	328	954	7,507	8,461
11	2,262	0	2,262	4,217	0	4,217	0	4,431	1,758	6,189	0	5,004	5,004	326	936	6,982	7,918
12	3,451	0	3,451	4,404	0	4,404	0	4,403	10	4,413	0	8,465	8,465	327	774	8,386	9,160
13	5,158	0	5,158	6,025	0	6,025	0	3,417	27	3,444	0	2,999	2,999	329	793	8,209	9,002
14	6,775	0	6,775	6,795	0	6,795	0	5,965	1,271	7,236	0	2,670	2,670	311	536	8,959	9,495
15	10,383	0	10,383	7,575	0	7,575	0	5,893	2,435	8,328	0	0	0	324	528	7,714	8,242
16	13,714	0	13,714	7,656	0	7,656	0	7,416	8,612	16,028	0	0	0	344	529	7,769	8,298
17	10,044	0	10,044	7,573	0	7,573	0	7,317	9,029	16,346	0	0	0	327	529	6,688	7,217
18	9,324	0	9,324	7,841	0	7,841	0	7,238	5,107	12,345	0	1,322	1,322	404	511	8,166	8,677
19	7,758	0	7,758	7,866	0	7,866	0	7,236	-380	6,856	0	1,618	1,618	463	515	9,346	9,861
20	10,383	0	10,383	7,763	0	7,763	0	6,039	2,845	8,884	0	1,270	1,270	467	522	9,741	10,263
21	10,659	0	10,659	7,728	0	7,728	0	10,336	1,855	12,191	0	2,766	2,766	459	0	8,970	8,970
22	11,734	0	11,734	7,757	0	7,757	0	7,158	2,059	9,217	0	0	0	457	0	9,351	9,351
23	12,848	0	12,848	7,716	0	7,716	0	7,119	3,279	10,398	0	0	0	440	0	6,829	6,829
24	13,023	0	13,023	7,651	0	7,651	0	7,223	3,842	11,065	0	0	0	421	0	8,109	8,109
25	13,431	0	13,431	7,713	0	7,713	0	11,373	7,500	18,873	0	0	0	411	0	7,666	7,666
26	11,606	0	11,606	7,505	0	7,505	0	7,105	5,195	12,300	0	0	0	396	0	5,449	5,449
27	12,788	0	12,788	7,633	0	7,633	0	7,011	12,235	19,246	0	0	0	401	0	7,123	7,123
28	12,177	0	12,177	7,663	0	7,663	0	11,048	7,141	18,189	0	0	0	387	0	5,906	5,906
29	11,167	0	11,167	7,398	0	7,398	0	4,143	7,417	11,560	0	0	0	397	949	4,625	5,574
30	10,395	0	10,395	7,677	0	7,677	0	7,004	6,789	13,793	0	0	0	375	962	5,997	6,959
31	5,563	0	5,563	7,588	0	7,588	0	6,834	2,143	8,977	0	3,041	3,041	288	965	5,899	6,864
<b>TOTAL</b>	<b>233,617</b>	<b>0</b>	<b>233,617</b>	<b>225,841</b>	<b>0</b>	<b>225,841</b>	<b>0</b>	<b>304,101</b>	<b>90,038</b>	<b>394,139</b>	<b>0</b>	<b>90,038</b>	<b>90,038</b>	<b>11,556</b>	<b>TOTAL</b>	<b>258,889</b>	<b>258,889</b>
<b>FEDERAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>225,841</b>	<b>0</b>	<b>225,841</b>	<b>0</b>	<b>207,107</b>	<b>0</b>	<b>207,107</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>FEDERAL</b>	<b>18,816</b>	<b>18,816</b>
<b>STATE</b>	<b>233,617</b>	<b>0</b>	<b>233,617</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>96,994</b>	<b>90,038</b>	<b>187,032</b>	<b>0</b>	<b>90,038</b>	<b>90,038</b>	<b>11,556</b>	<b>STATE</b>	<b>240,073</b>	<b>240,073</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

DECEMBER 2003

FEDERAL-STATE OPERATIONS

RUN DATE: January 2, 2004

DAY	TRACY PUMPING			CLIFT COURT TOTAL	DELTA PUMPING PLANT			FED BANKS XVC	STATE			AQEDUCT CHECK 21			DMC-POOL DEMANDS
	FED	STATE	TOTAL		STATE	FED	TOTAL		AMIGOS XVC	BYRON TOTAL	STATE	FED	TOTAL		
1	8,608	0	8,608	4,920	4,791	0	4,791	0	0	0	6,708	0	6,708	991	
2	8,611	0	8,611	2,942	3,372	0	3,372	0	0	0	7,919	0	7,919	1,057	
3	8,583	0	8,583	3,963	3,877	0	3,877	0	0	0	8,226	0	8,226	1,179	
4	8,606	0	8,606	4,949	4,713	0	4,713	0	0	0	8,154	0	8,154	1,097	
5	8,645	0	8,645	4,941	4,898	0	4,898	0	0	0	8,116	0	8,116	1,032	
6	8,685	0	8,685	4,946	3,934	0	3,934	0	0	0	8,590	0	8,590	997	
7	8,695	0	8,695	5,934	4,446	0	4,446	0	0	0	8,328	0	8,328	968	
8	8,650	0	8,650	899	2,085	0	2,085	0	0	0	7,507	0	7,507	828	
9	7,505	0	7,505	909	1,017	0	1,017	0	0	0	7,514	0	7,514	-63	
10	6,123	0	6,123	974	974	0	974	0	0	0	7,998	0	7,998	528	
11	5,402	0	5,402	1,928	2,294	0	2,294	0	0	0	6,987	0	6,987	1,185	
12	5,497	0	5,497	3,933	4,213	0	4,213	0	0	0	7,399	0	7,399	1,093	
13	6,753	0	6,753	5,933	5,954	0	5,954	0	0	0	7,868	0	7,868	728	
14	8,355	0	8,355	7,931	7,802	0	7,802	0	0	0	7,570	0	7,570	1,560	
15	8,722	0	8,722	13,136	12,921	0	12,921	0	0	0	7,593	0	7,593	1,147	
16	8,511	0	8,511	13,241	13,779	0	13,779	0	0	0	7,023	0	7,023	855	
17	8,714	0	8,714	11,949	11,734	0	11,734	0	0	0	6,365	0	6,365	1,141	
18	8,685	0	8,685	10,250	10,185	0	10,185	0	0	0	8,231	0	8,231	844	
19	8,543	0	8,543	9,740	8,986	0	8,986	0	0	0	8,304	0	8,304	677	
20	8,619	0	8,619	10,473	10,969	0	10,969	0	0	0	8,672	0	8,672	856	
21	8,600	0	8,600	12,574	11,561	0	11,561	0	0	0	8,100	0	8,100	872	
22	8,608	0	8,608	12,553	12,833	0	12,833	0	0	0	7,909	0	7,909	851	
23	8,647	0	8,647	14,133	13,853	0	13,853	0	0	0	6,900	0	6,900	931	
24	8,506	0	8,506	14,175	13,550	0	13,550	0	0	0	6,834	0	6,834	855	
25	8,395	0	8,395	14,174	13,936	0	13,936	0	0	0	8,057	0	8,057	682	
26	8,552	0	8,552	14,174	13,829	0	13,829	0	0	0	5,220	0	5,220	1,047	
27	8,614	0	8,614	12,781	13,817	0	13,817	0	0	0	7,244	0	7,244	981	
28	8,538	0	8,538	12,511	13,825	0	13,825	0	0	0	4,758	0	4,758	875	
29	8,561	0	8,561	13,459	11,390	0	11,390	0	0	0	5,142	0	5,142	1,163	
30	8,620	0	8,620	10,489	11,826	0	11,826	0	0	0	5,934	0	5,934	943	
31	8,575	0	8,575	7,670	5,167	0	5,167	0	0	0	6,806	0	6,806	987	
<b>TOTALS</b>	<b>254,728</b>	<b>0</b>	<b>254,728</b>	<b>262,584</b>	<b>258,531</b>	<b>0</b>	<b>258,531</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>227,976</b>	<b>0</b>	<b>227,976</b>	<b>28,887</b>	

COMMENTS: ALL VALUES IN ACRE-FEET

- TOTAL TRACY: 12/09/03 - Decrease in Tracy Pumping to protect the Delta from salinity intrusion.
- TOTAL TRACY: 12/10/03 - Decrease in Tracy Pumping to protect the Delta from salinity intrusion.
- TOTAL TRACY: 12/11/03 - Decrease in Tracy Pumping to protect the Delta from salinity intrusion.
- TOTAL TRACY: 12/12/03 - Decrease in Tracy Pumping to protect the Delta from salinity intrusion.
- TOTAL TRACY: 12/13/03 - Decrease in Tracy Pumping to protect the Delta from salinity intrusion.

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	3243	1759	135317
Delta-Mendota	261583	236924	267282	112816	89901	262129	257780	264427	253450	264138	256828	254728	2781986
Actual Fed Dos Amigos	62174	84109	70926	80774	85819	177721	211095	148067	56324	46188	35356	NA	1058553
Madera	0	0	0	13220	44954	223582	59818	43847	21916	11437	0	0	418774
Friant-Kern	11709	25236	22047	76355	186269	57143	205266	146210	77126	55695	14555	7750	885361
Corning	0	258	0	115	1452	3628	4064	3697	3033	1898	220	73	18438
Folsom-South	2434	2150	1503	2168	2684	2678	2737	2767	2676	2206	2678	2253	28934
Sly Park - Camino Conduit	1041	922	1079	1073	1906	3882	4657	2527	2299	1904	902	1053	23245
Tehama-Colusa	0	1519	4300	11669	31714	58521	59904	38579	20912	11703	724	0	239545
<b>CACHUMA PROJECT</b>													
Tecolote Tunnel	2158	1838	2197	1073	2172	2319	3208	3486	2970	2812	1856	2264	28353
<b>KLAMATH PROJECT</b>													
"A" Canal Upper Klamath	0	0	0	0	25680	42640	60400	61020	39140	11860	0	0	240740
Klamath Drainage District	12524	10825	9861	2831	2320	12547	11822	9870	11020	7560	3520	16350	111050
Clear Lake Reservoir	0	0	0	0	2340	20860	3490	3260	3190	0	0	0	33140
Gerber Reservoir	0	0	0	0	2100	9960	4360	3700	2840	0	0	0	22960
Klamath River to Lost River	0	0	0	0	0	17607	9608	1933	11590	0	0	0	40738
<b>ORLAND PROJECT</b>													
Stony Creek	0	0	0	0	8503	18847	19686	17414	14939	9831	20	0	89240
South Canal	0	0	0	0	6383	12891	13601	12269	10635	6681	20	0	62480
North Canal	0	0	0	0	2120	5956	6085	5145	4304	3150	0	0	26760
<b>SOLANO PROJECT</b>													
Putah South Canal	3733	3201	4923	9362	17340	32490	37256	29116	23306	10784	2546	1519	175576



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	0	0	114
Arvin-Edison WSD	1707	2374	0	20465	51429	17279	0	5016	8636	6955	2214	27	116102
Atwell Island WD	0	0	0	0	0	0	0	0	0	0	0	0	0
Delano-Earlimart ID	0	2960	3771	7150	15362	25234	26958	15936	12119	9092	1793	967	121342
Exeter ID	0	10	79	136	679	2025	2909	2743	2390	1454	173	61	12659
City of Fresno	0	837	4	7	15	0	25830	29634	3261	762	34	0	60384
County of Fresno SA #34	4	3	20	15	48	79	95	80	62	45	10	4	465
Fresno ID	0	0	0	0	67	169	3651	0	0	0	0	0	3887
Garfield WD	0	0	61	174	278	491	525	388	316	217	12	0	2462
Hills Valley ID	0	0	17	33	404	699	905	792	774	547	98	0	4269
International WD	25	53	0	89	64	252	259	266	239	168	4	0	1419
Ivanhoe ID	0	0	0	952	2513	1341	2250	1679	1408	580	174	0	10897
Kaweah Delta WCD	0	0	0	0	0	386	0	0	0	0	0	0	386
Kern County Water Agency	0	0	0	0	0	0	0	0	0	0	0	0	0
Kern-Tulare WD	0	0	1715	1734	978	4247	4863	3942	3153	2584	563	430	24209
Kings County WD	0	0	0	0	0	376	0	0	0	0	0	0	376
Kings River CD	0	0	0	0	0	3457	0	0	0	0	0	0	3457
Lewis Creek WD	0	0	0	0	0	0	0	0	39	18	0	0	57
Lindmore ID	0	0	129	828	2989	7697	9762	8858	6928	4595	549	0	42335
City of Lindsay	0	45	168	162	257	214	266	269	259	257	176	147	2220
Lindsay-Strathmore ID	5	117	0	0	0	2423	4368	4144	3662	2685	572	328	18304
Wutchurna (Lindsey-Strathmore non-proj)	0	0	202	723	1944	1179	0	0	0	0	0	0	4048
Lower Tule River ID	0	0	0	10194	35532	36555	31197	17992	0	0	0	0	131470
North-Kern WSD	0	0	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	102	86	1626
Orange Cove ID	0	0	75	258	2910	5423	6290	6016	4978	3465	608	143	30166
Pixley ID	0	0	0	2342	9571	13482	11053	0	0	0	0	0	36448
Porterville ID	0	0	0	1284	2518	3567	3807	2113	902	401	0	0	14592
Rag Gulch WD	0	320	684	989	2690	1850	2104	1620	1543	701	152	19	12672
Rosedale Rio Bravo WSD	0	0	0	2582	21803	872	0	0	0	0	0	0	25257
Saucelito ID	0	321	1840	2232	4822	6896	6558	4965	2968	268	432	98	31400
Semitropic WSD	0	0	0	0	0	0	0	0	0	0	0	0	0
Shafter Wasco ID	541	5629	3670	3579	7988	11240	11475	6923	4464	4585	1005	1052	62151
Southern San Joaquin MUD	0	5260	5151	7096	13274	20789	22953	15457	11494	7351	1470	1122	111417
Smallwood Vineyards	0	0	33	62	72	113	114	48	4	0	0	0	446
Stone Corral ID	0	0	9	232	780	1614	1822	1629	1278	852	149	82	8447
Strathmore PUD	0	19	19	19	34	42	51	42	47	43	22	32	370
Styro Tek, Inc.	0	0	1	0	1	0	1	1	0	1	0	0	5
Tea Pot Dome WD	0	0	0	160	495	1039	1267	1129	983	703	185	50	6011
Terra Bella ID	0	0	125	449	1538	3178	4000	3547	3204	2155	472	207	18875
Tri-Valley WD	0	0	0	0	25	232	314	356	266	246	37	0	1476
Tulare ID	0	2692	0	11459	28428	31717	10055	5170	0	0	0	0	89521
	0	0	0	0	0	10270	0	0	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>75570</b>	<b>50883</b>	<b>11006</b>	<b>4855</b>	<b>1022012</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	0	0	0	99527
Madera ID	0	0	0	4679	25629	33684	31464	10677	10747	12145	0	0	129025
Soquel	0	0	0	0	0	0	0	9461	0	0	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>12145</b>	<b>0</b>	<b>0</b>	<b>238013</b>
<b>MILLERTON LAKE</b>													
County of Madera	1	2	3	3	5	7	8	7	6	6	3	2	53
Fresno County # 18	5	5	7	8	14	20	24	21	18	6	8	8	144
Gravelly Ford WD	0	2	345	1146	740	1288	1107	1098	1551	1409	0	0	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>1421</b>	<b>11</b>	<b>10</b>	<b>8883</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	0	0	4310
Hughes, Melvin	0	21	0	0	0	19	30	23	0	0	0	0	93
James ID	0	2341	546	1066	2420	9634	9517	8224	3716	580	76	0	38120
Laguna WD	0	0	0	0	0	0	0	0	0	0	0	0	0
Dudley & Indart	0	910	301	124	490	813	727	684	224	63	0	0	4336
Mid-Valley WD (no contract)	0	0	0	368	0	0	0	0	0	0	0	0	368
Reclamation 1606	0	0	0	41	41	55	67	23	0	0	0	0	227
Terra Linda (Goodman)	0	798	624	779	816	1418	1819	1225	531	252	232	0	8494
Tranquility ID	65	5203	1071	475	2687	6364	6395	4540	928	221	36	0	27985
Wilson, JW (no contract)	0	169	18	0	0	165	200	165	48	0	0	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>344</b>	<b>0</b>	<b>84698</b>
<b>Exchange Contractors</b>													
Central California ID	279	36522	31255	21018	36082	75370	88552	89817	28255	30485	3773	73	441481
Columbia Canal Co	2	3648	5595	5451	5867	8815	10451	9376	5006	2733	18	0	56962
Firebaugh Canal Co	218	234	1258	2398	2523	3518	4025	10139	2009	1694	1052	1	29069
San Luis Canal Co	0	4059	13742	8446	13050	27471	29032	26268	11214	1353	999	0	135634
<b>Total</b>	<b>499</b>	<b>44463</b>	<b>51850</b>	<b>37313</b>	<b>57522</b>	<b>115174</b>	<b>132060</b>	<b>135600</b>	<b>46484</b>	<b>36265</b>	<b>5842</b>	<b>74</b>	<b>663146</b>
<b>Data corrected 8/17/04</b>													
Grassland WD - 76.05L CCID #1-07-20-W1754	9348	12037	6037	5091	16878	6908	4223	17237	73699	30211	15628	6830	204127
US F&WS - Kesterson #00-WC-20-1647	4679	1243	1241	2672	0	2393	5497	302	918	9279	2815	2590	33629
State F&WS - DWR #00-WC-20-1647 Kern National Wildlife	1136	2139	1291	220	236	145	0	1008	3497	6360	4895	4009	24936
State F&G - Water Fowl Dist #1-07-20-W19756	4075	2454	1554	521	1527	2226	2733	3100	8664	9811	5316	63	42044
DFG Traction Ranch - Mendota Pool #14-06-200-7859Z	497	427	315	307	546	1324	553	583	863	1347	510	0	7272
<b>Total</b>	<b>19735</b>	<b>18300</b>	<b>10438</b>	<b>8811</b>	<b>19187</b>	<b>12996</b>	<b>13006</b>	<b>22230</b>	<b>87641</b>	<b>57008</b>	<b>29164</b>	<b>13492</b>	<b>312008</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	0	0	2177
Broadview WD	1013	1646	930	480	661	2868	3126	1729	379	233	0	0	13065
CCID (Abv CK 13)	240	139	1108	748	2222	2124	2426	2039	1980	756	369	34	14185
CCID (Blw CK 13)	0	1347	4429	664	9983	13860	23806	10192	159	69	111	10	64630
Centinella WD	0	0	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	0	908	4307
Del Puerto WD	151	1735	3527	7750	11081	15094	18647	12104	8163	4404	599	196	83451
DWR Intertie @MP7.70-R	0	0	0	0	0	0	0	0	0	0	0	0	0
Eagle Field WD	59	425	142	50	11	548	660	499	179	6	101	0	2680
Firebaugh Canal	2202	5784	1170	454	924	6816	9547	6399	458	109	668	229	34760
Frietas Unit (76.05L)	0	1078	1258	835	795	0	904	0	0	0	0	1181	6051
Mercy Springs WD	0	156	57	249	136	309	362	308	86	84	25	46	1818
Oro Loma WD	0	281	0	0	0	277	293	250	0	2	0	0	1103
Panoche WD - Ag	422	660	351	232	303	1156	1643	985	308	151	66	146	6423
Panoche WD - M&I	2	3	2	3	2	3	2	3	2	3	2	3	30
Patterson WD	0	209	354	336	866	1059	1592	939	362	279	79	3	6078
Plainview WD	19	48	211	367	464	476	559	468	386	256	30	15	3299
Salt Slough Unit (76.05L)	0	926	992	723	1021	0	1217	0	0	0	0	1185	6064
San Luis WD - Ag	38	1841	812	818	797	2128	2782	1725	737	374	75	98	12225
San Luis WD - M&I	1	1	3	3	12	35	31	24	26	13	1	1	151
Tracy, City of	104	361	571	720	958	1187	1301	1306	1266	1223	657	448	10102
West Side ID	0	0	0	0	0	22	152	226	0	0	0	0	400
Widren	0	54	0	0	0	16	25	17	0	0	14	6	132
W. Stanislaus ID	0	556	1600	4081	4160	4951	8242	7180	5451	2655	326	0	39202
F&G - Los Banos Ref. 76.05L	0	1068	1168	538	1044	393	0	0	0	0	0	853	5064
Volta Wildlife Mgmt Area (F&G)	109	17	127	195	330	158	147	615	2157	1627	522	68	6072
Grasslands WD -76.05L	5851	3441	1085	725	7580	6214	2675	13777	19928	7041	7141	6796	82254
Grasslands WD - Volta	1286	1253	1139	0	1406	336	494	0	10350	10092	2599	272	29227
F&S (Volta) Santa Fee Kest.	0	0	0	0	0	0	0	0	750	1298	1002	0	3050
F&S - Kesterson 76.05L	0	665	819	512	778	0	0	0	0	0	0	1156	3930
<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>14387</b>	<b>13654</b>	<b>441930</b>
Oneill Net Pumped	222449	122252	167000	34494	(53271)	42298	(7025)	43096	76711	134563	201960	225841	1210368
DMC plus Oneill	233946	146989	189688	55627	(6999)	102655	75468	104006	129838	165238	216347	239495	1652298

\* 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	209	186	2597
Broadview WD	4	1	0	2	1	4	3	3	2	3	1	0	20
City of Coalinga	310	423	197	501	540	899	1026	888	929	790	347	403	6943
City of Dos Palos	62	67	77	95	141	171	195	161	152	122	80	74	1335
City of Huron	43	50	64	90	83	104	123	120	156	94	120	46	1050
Pacheco WD	225	399	179	126	1	1271	2742	1926	189	141	1	40	7015
Pacheco CCID Non-project (Hamburg)	457	984	537	493	1174	1615	0	0	0	0	0	0	5260
Panoche WD	3032	6457	3102	4068	4763	8981	12765	8019	1180	661	540	1526	55094
San Luis WD	1677	5012	4798	5688	6803	11505	14290	8916	2728	3433	1330	705	66885
Westlands WD (Federal)	54952	72952	62666	74922	<b>91722</b>	<b>171127</b>	<b>189035</b>	132189	49909	42139	<b>32811</b>	34056	1008480
Fish & Game (Lateral 4 - Federal )	0	0	1	0	1	1	1	1	2	1	1	1	10
Fish & Game (Lateral 6 - Federal)	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>60945</b>	<b>86511</b>	<b>71811</b>	<b>86176</b>	<b>105473</b>	<b>195962</b>	<b>220493</b>	<b>152512</b>	<b>55517</b>	<b>47639</b>	<b>35231</b>	<b>37037</b>	<b>1155307</b>
<b>Bold values revised 6/18/04</b>													
<b>O'NEILL FOREBAY DELIVERIES</b>													
Oneill Forebay Wildlife (Federal)	18	11	31	1	45	50	76	23	29	29	50	94	457
San Luis WD Ag	32	690	582	975	1202	1852	2298	1500	617	732	138	26	10644
San Luis M&I	37	32	21	33	61	69	94	81	82	74	30	18	632
VA Cemetary	1	4	3	4	7	9	14	16	15	7	3	2	85
<b>Total</b>	<b>88</b>	<b>737</b>	<b>637</b>	<b>1013</b>	<b>1315</b>	<b>1980</b>	<b>2482</b>	<b>1620</b>	<b>743</b>	<b>842</b>	<b>221</b>	<b>140</b>	<b>11818</b>
<b>CROSS VALLEY CANAL</b>													
County of Fresno	0	0	0	0	216	0	0	0	0	0	0	0	216
County of Tulare	0	0	0	0	383	0	0	0	0	0	0	0	383
Lower Tule River ID	0	0	0	0	0	0	0	0	0	0	0	0	0
Pixley ID	0	0	0	0	0	0	0	0	0	0	0	0	0
Kern-Tulare WD	0	0	0	0	1075	0	0	0	0	0	0	0	1075
Rag Gulch WD	0	0	0	0	358	0	0	0	0	0	0	0	358
Hills-Valey ID	0	0	0	242	0	0	0	0	0	0	0	0	242
Tri-Valley ID	0	0	0	0	82	0	0	0	0	0	0	0	82
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>242</b>	<b>2114</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	10972	11047	106409
San Benito	254	1407	623	397	1139	3824	5164	5079	2770	2194	518	499	23868
<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>11490</b>	<b>11546</b>	<b>130277</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	3779	792		50651
Cortina WD	0	0	0	37	100	272	278	96	44	52	16		895
Davis WD	0	2	17	339	126	401	598	426	97	28	0		2034
Dunnigan WD	8	22	133	455	1334	3237	3495	1970	1283	476	26		12439
4-M Water District	0	3	7	85	225	305	406	273	230	23	1		1558
GCID	0	43	960	2135	3319	4905	4810	4844	3200	1218	277		25711
Glenn Valley WD	0	0	0	0	32	73	177	119	16	0	0		417
Glide WD	0	8	9	269	2498	3177	4123	2532	575	331	0		13522
Holthouse WD	0	7	24	109	329	403	549	384	204	96	2		2107
Kanawha WD	3	27	146	737	2470	7036	7815	4865	1983	729	47		25858
Kirkwood WD	0	0	0	0	36	111	132	113	68	51	0		511
La Grande WD	0	0	0	624	1247	1427	1291	1001	56	323	41		6010
Myers-Marsh MWC	0	0	25	47	149	261	154	0	0	0	0		636
Orland-Artois WD	14	120	29	518	6581	13098	15059	9912	5194	2730	109		53364
Westside WD	0	40	453	2326	4180	9425	8327	5463	1766	826	124		32930
<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>1435</b>	<b>0</b>	<b>228643</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	0	0	2046
Anderson Cottonwood ID	0	0	0	6184	14829	19488	18866	18330	17583	12472	0	0	107752
Andreotti, Arthur, et al	0	0	0	0	400	707	724	631	268	0	0	0	2730
Baber, Jack, et	0	0	0	0	228	680	718	324	0	187	0	0	2137
A&R Farms (Odysseus)	0	0	0	0	15	5	53	32	40	16	0	0	161
Cannel, Fred	0	0	0	0	10	274	205	0	23	283	0	0	795
Carter, Jane	0	0	0	0	142	554	303	115	228	51	0	0	1393
Colusa Prop. Inc	0	0	0	0	10	1	98	0	0	0	0	0	109
Conaway Conservancy Group	0	0	0	0	3815	5535	6556	5484	740	2504	0	0	24634
Davis, Olive P, et al	0	0	0	1312	5674	4869	5978	5002	333	0	0	0	23168
Deseret Farms of Calif	0	0	0	0	45	287	328	176	6	0	0	0	842
Dommer, Elizabeth	0	0	0	0	0	2	3	2	2	0	0	0	9
Forry, David G, et al	0	0	0	0	112	242	518	369	125	0	0	0	1366
Forster, Rosemary	0	0	0	0	474	330	384	303	2	0	0	0	1493
Furlan Joint Venture (Area #1)	0	0	0	0	0	49	66	0	0	0	0	0	115
Furlan Joint Venture (Area #2)	0	0	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	0	0	671635
Griffin, J, et al	0	0	0	0	429	550	121	174	341	0	0	0	1615
Henle Family Limited Partnership	0	0	0	14	115	215	92	5	0	0	0	0	441
Hershey Land Co	0	0	0	0	100	219	335	284	108	0	0	0	1046
Hiatt, Glenn	0	0	0	0	28	303	283	122	179	0	0	0	915
Hollins, Mariette B	0	0	0	7	194	178	210	164	11	0	0	0	764
Howald Farms	0	0	0	0	106	223	152	51	125	0	0	0	657
King, Barbara	0	0	0	0	0	2	2	2	2	0	0	0	8
Knaggs Walnut Ranches Co, L.P.	0	0	0	0	0	0	0	0	0	0	0	0	0
Lockett, William P.	0	0	0	0	0	2	144	0	0	0	0	0	146
Loma Cold Storage/J Micheli	0	0	0	18	1031	1556	686	273	0	0	0	0	3564
M&T Inc.	0	0	0	0	862	1003	1810	1419	78	1526	0	0	6698
MCM Properties, Inc	0	0	0	0	0	60	77	24	0	0	0	0	161
Maxwell ID	0	0	0	239	399	110	0	0	0	571	0	0	1319
Meridan Farms WC	0	0	0	183	2959	2992	4937	5464	1255	0	0	0	17790
Natomas Central MWC	0	0	0	1290	12566	16459	23861	17875	4112	983	0	0	77146
O'Brien, Janice	0	0	0	0	87	277	233	59	51	0	0	0	707
Oji Bros. Farms Inc	0	0	0	129	346	674	782	370	172	0	0	0	2473
Oji, Mitsue Family PTN	0	0	0	0	278	1045	642	0	0	0	0	0	1965
Pelger Mutual WC	0	0	0	98	1413	1330	620	581	93	1015	0	0	5150
Pleasant Grove-Verona MWC	0	0	0	0	1966	3217	4413	2672	457	0	0	0	12725
Princeton,-Codora-Glenn ID	0	0	0	2992	11804	11486	13726	9582	2759	5865	0	0	58214
Provident Irrigation District	0	0	0	3210	12461	11187	13824	5903	266	10107	0	0	56958
Reclamation Dist #108	0	0	0	2087	26250	31745	38176	26084	3987	3930	0	0	132259
Reclamation Dist #1004	0	0	0	943	9726	10597	15947	12054	4045	11768	0	0	65080
Reynen, John, et al	0	0	0	0	807	976	1668	1223	82	0	0	0	4756
River Garden Farms	0	0	0	396	4160	4473	4350	3782	1084	337	0	0	18582
Roberts Ditch Irrigation Co	0	0	0	0	368	765	1113	790	354	0	0	0	3390
Sartain Mutual WC	0	0	0	0	276	462	508	292	0	0	0	0	1538
Siddiqui, J & A & Siddiqui Family Plan	0	0	0	0	2	69	162	212	94	7	0	0	546
Spence, Ruth Ann	0	0	0	0	0	0	0	0	0	0	0	0	0
Sutter Mutual WC	0	0	0	3787	28891	38509	46943	42932	11650	1737	0	0	174449
Swinford Tract Irrigation Co	0	0	0	0	0	0	27	23	0	0	0	0	50
Tarke, James, et al	0	0	0	0	184	328	375	336	79	0	0	0	1302
Tisdale Irrigation & Drain	0	0	0	45	1096	1853	1834	1606	576	0	0	0	7010
Wallace Construction, Inc.	0	0	0	0	0	0	300	187	0	0	0	0	487
Wells, Joyce M	0	0	0	8	210	237	279	217	15	1	0	0	967
Wilson Ranch Partnership	0	0	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	0	0	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>0</b>	<b>0</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	4423	11339
At Keswick	13500	9498	4232	7639	16172	12924	13830	10311	7694	6797	5652	8219
At Bend Bridge	25382	13674	12271	12384	22852	14627	14595	11091	8212	7345	7103	15390
At Vina Bridge	38278	17020	11719	14887	26386	15700	14762	11023	8076	7380	7510	19516
At Ord Ferry	35335	15687	12185	14171	24485	12350	11271	8840	7289	5829	5856	20895
At Colusa	30523	17735	12519	13086	21861	11352	9701	7832	6618	5029	5005	17593
Below Wilkins Slough	24623	17618	12638	12632	18827	10231	8228	6821	6583	5176	5178	15985
At Verona	46013	29817	20277	19263	35128	18772	20194	17847	14420	9659	10749	25428
Sacramento at "I" Street	49929	33707	22335	20590	39805	22640	22828	20190	16025	11547	12766	26729
<b>Miscellaneous Stations</b>												
Folsom computed inflow	3942	3227	3683	5851	8030	4130	1938	1557	1568	844	1267	2764
American R at Nimbus Dam	2626	4300	2019	2043	5621	4216	3322	2697	1788	1968	2035	2001
Kings River at Pine Flat	111	94	401	706	2069	6585	6506	1775	1396	835	153	296
<b>San Joaquin River</b>												
At Friant Dam	104	103	114	146	162	386	250	226	236	202	134	115
Near Vernalis	2211	2198	2191	2573	2569	2109	1397	1337	1331	1960	1674	1576
<b>Putah Creek</b>												
Berryessa computed inflow	1328	564	736	750	473	28	1	-7	-16	-43	9	192
Putah Creek - Lake Solano	26	195	337	281	481	43	43	34	26	25	27	54
<b>Stanislaus River</b>												
New Melones computed inflow	1068	962	1143	1710	2529	2459	961	767	747	396	470	895
At Tulloch Dam	305	533	1123	1697	1941	2625	2149	1775	1184	717	307	255
At Orange Blossom	212	539	454	726	695	1046	426	460	428	590	451	448

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