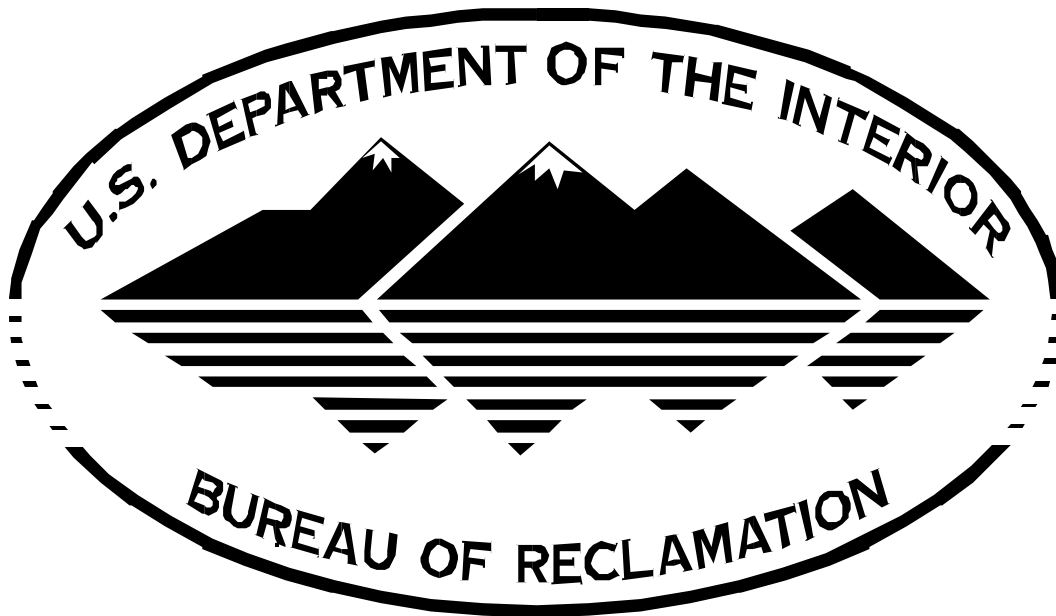


**UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION**

CENTRAL VALLEY OPERATIONS OFFICE

REPORT OF OPERATIONS



November 2002

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SUMMARY OF NOVEMBER 2002 OPERATIONS

Sacramento had an average monthly temperature of 56.2 °F which was 1.1 °F above normal. The average temperature at Shasta Dam was 56.1 °F which was 3.7 °F above normal and Huntington Lake was .4 °F below normal with an average temperature of 39.8 °F.

Trinity System: Storage in Trinity Lake decreased 13,000 acre-feet this month to 1,392,600 acre-feet, which is 54 percent of capacity and 100 percent of the 15 year average for this date. The total inflow for the month was 21,392 acre-feet. The Trinity River release was 300 ft³/s. Whiskeytown Lake was operated between elevations 1198.19 feet and 1201.81 feet with an end-of-month storage of 206,000 acre-feet. The releases to Clear Creek from Whiskeytown Dam were 200 ft³/s. Total diversion from the Trinity River to the Sacramento River watershed for the month was 12,280 acre-feet.

Shasta-Keswick: Storage in Shasta Lake decreased 79,500 acre-feet for an end-of-month storage of 2,334,900 acre-feet, which is 51 percent of capacity and 96 percent of the 15 year average. The total inflow for the month was 230,869 acre-feet. The release to the Sacramento River at Keswick ranged between 4,600 and 7,500 ft³/s for the month.

Folsom-Nimbus: Storage in Folsom Lake decreased 10,300 acre-feet and had an end-of-month storage of 446,500 acre-feet, which is 46 percent of capacity and 119 percent of the 15 year average for this date. The total inflow for the month was 95,742 acre-feet. The release to the American River at Nimbus ranged between 1,500 and 1,750 ft³/s during the month.

New Melones: Storage in New Melones increased 16,200 acre-feet for an end-of-month storage of 1,304,200 acre-feet or 54 percent of capacity and 111 percent of the 15 year average. The release to the Stanislaus River at Goodwin Dam ranged between 250 to 300 ft³/s for the month. The total inflow for the month was 37,411 acre-feet.

Delta-San Luis: Federal storage in San Luis Reservoir on November 30, 2002, was 568,000 acre-feet compared to the storage a year ago of 552,000 acre-feet.

Friant: Storage in Millerton Lake increased 33,745 acre-feet to 252,300 acre-feet. The total monthly inflow was 47,187 acre-feet. The release to the San Joaquin River at Friant varied between 114 and 146 ft³/s.

CVP Totals: The total diversions to CVP canals were 231,763 acre-feet. The November 30, 2002, storage in the 18 CVP reservoirs was 6,046,000 acre-feet compared to storage 1 year ago of 5,907,000 acre-feet.

Power: Gross power production for the CVP totaled 182,158,247 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	11/30/02	11/01/01	WATERSHED	RESERVOIR	TOTAL CAPACITY	11/30/02	11/01/01
KLAMATH	CLEAR LAKE *	526,800	103,230	136,620	AMERICAN	FOLSOM LAKE *CVP	1,010,300	446,480	261,930
	GERBER *	94,300	13,840	18,470		LAKE NATOMA *CVP	9,030	8,110	7,570
	UPR KLAMATH LK *	873,300	192,740	263,640	COSUMNES	JENKINSON LK *CVP	41,000	26,690	27,300
TRINITY	CLAIR ENGLE LK*CVP	2,447,700	1,392,650	1,338,250	MOKELUMNE	CAMANCHE	431,500	248,860	191,780
	LEWISTON LAKE*CVP	14,660	14,020	13,880		PARDEE	210,000	171,840	176,480
	WHISKEYTOWN *CVP	241,100	206,040	212,010	SALT SPRINGS	140,000	57,850	18,250	
MCCLOUD	MCCLOUD DIV. RES	35,230	20,040	23,300	CALAVERAS	NEW HOGAN	317,100	122,120	116,740
PIT	IRON CANYON	24,240	12,330	8,620		NEW MELONES*CVP	2,420,000	1,304,230	1,470,350
	LAKE BRITTON	40,620	34,060	32,990		BEARDSLEY	97,800	50,080	31,700
	PIT NO. 6	15,890	13,980	14,180	STANISLAUS	DONNELLS	64,320	9,120	19,120
	PIT NO. 7	34,610	32,850	33,170		TULLOCH	67,000	54,550	54,400
SACRAMENTO	SHASTA LAKE *CVP	4,552,000	2,334,940	2,284,380	TUOLUMNE	LAKE ELEANOR	26,100	13,540	22,800
	SPRING CREEK *CVP	5,900	830	2,080		LAKE LLOYD	268,000	213,790	230,400
	KESWICK *CVP	23,800	22,740	21,390		HETCH-HETCHY	360,400	245,040	203,160
	RED BLUFF DIV *CVP	3,920	300	430	NEW DON PEDRO	2,030,000	1,246,630	1,152,880	
FEATHER	OROVILLE	3,538,000	1,227,430	1,416,920	TURLOCK LAKE	49,000	1,440	13,240	
	THERMALITO DIV RES	13,500	13,000	NR	MERCED	EXCHEQUER	1,024,600	299,030	367,650
	THERMALITO FORE.	14,400	10,970	NR		BUCHANAN	150,000	10,870	15,540
	THERMALITO AFTER.	57,000	20,120	20,280	CRANE VALLEY	45,400	24,720	23,960	
LAKE ALMANOR	1,143,000	714,530	617,320	LAKE T.A. EDISON	125,000	48,860	45,580		
STONY CREEK	EAST PARK *	50,900	7,280	32,810	FLORENCE LAKE	64,600	1,000	2,270	
	STONY GORGE *	50,000	22,010	26,860	SAN JOAQUIN	MAMMOTH POOL	122,700	31,710	18,650
	BLACK BUTTE *CVP	143,700	23,420	28,740		HUNTINGTON LAKE	89,800	52,380	60,340
LAKE BERRYESSA *	1,602,300	1,263,980	1,256,640	REDINGER LAKE		35,000	24,380	23,480	
PUTAH CREEK	LAKE SOLANO *	720	590	580	SHAVER LAKE	135,400	114,380	111,400	
					MILLERTON LK *CVP	520,500	252,310	175,540	
YUBA	BULLARDS BAR	930,000	492,990	505,190	FRESNO	HIDDEN	90,000	11,750	8,460
	SO. YUBA SYSTEM	146,000	39,280	37,290		SAN LUIS **CVP	2,040,600	787,570	964,450
NARROWS	70,000	64,890	65,870	O'NEILL FORE.**CVP		56,400	41,530	41,580	
BEAR	ROLLINS	65,990	61,530	40,200	SAN LUIS	L BANOS RES**CVP	34,560	18,620	18,490
LITTLE TRUCKEE	STAMPEDE *	226,620	109,200	155,800		LT PANOCHE **CVP	5,580	730	800
BOCA *	41,140	4,000	5,400	OIL CANYON	CONTRA LOMA *CVP	2,100	1,990	1,440	
PROSSER	PROSSER CREEK *	29,840	7,700		8,700	KINGS	WISHON	128,300	52,070
TRUCKEE	LAKE TAHOE *	732,000	20,600	116,600	PINE FLAT	1,001,500	217,370	314,880	
	RYE PATCH *	190,000	11,600	13,700	KAWEAH	TERMINUS	143,000	12,140	13,540
HUMBOLDT					TULE	SUCCESS	82,300	12,000	7,850
CARSON	LAHONTAN *	317,280	90,200	73,500	KERN	ISABELLA	588,100	134,540	100,420
	TWIN LAKES	21,600	15,110	42,260	CUYAMA	TWITCHHELL *	240,100	5,160	5,160
	FRENCH MEADOWS	136,400	68,970	42,260	SANTA YNEZ	LAKE CACHUMA *	190,500	124,050	169,560
AMERICAN	HELL HOLE	207,590	116,890	41,300	COYOTE	LAKE CASITAS *	254,000	194,960	223,970
	LOON LAKE	76,500	59,410	49,940	TOTAL - 85 RESERVOIRS	33,790,040	15,738,220	15,868,330	
	ICE HOUSE	46,000	30,890	27,540	TOTAL - 36 RESERVOIRS	18,992,650	9,054,340	9,378,620	
	UNION VALLEY	277,300	138,450	105,490	TOTAL - 18 RESERVOIRS	13,572,850	6,883,200	6,870,610	
	SLAB CREEK	16,600	14,100	13,680					

** - Joint State-Federal Reservoir

* - USBR Reservoir

CVP - Central Valley Project

NR - Not Reported

Plant Generation and Energy Summary for 2002

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
<u>Generation in mwh</u>													
Shasta													
Gross	129390	72525	112474	119835	215951	270363	305078	202775	140112	117700	109416		1,795,619
Net	128954	72134	112155	119468	215616	270048	304743	202465	139794	117290	108962		1,791,629
Keswick													
Gross	31833	18594	23732	23449	42561	54934	64491	49092	33034	30347	24885		396,952
Net	31683	18464	23586	23324	42428	54801	64350	48954	32903	30208	24746		395,447
Trinity													
Gross	546	6291	8344	21635	78785	58117	60993	59135	32929	29711	9389		365,875
Net	481	6143	8181	21496	78642	57992	60868	59018	32832	29639	9249		364,541
JF Carr													
Gross	368	739	1570	19887	19787	55536	69635	69937	34491	36277	6365		314,592
Net	240	598	1436	19832	19734	55454	69539	69850	34435	36220	6265		313,603
Spring Creek PP													
Gross	33762	11434	8659	2034	21040	53176	67864	67429	29603	40914	6577		342,492
Net	33624	11359	8577	1966	20979	53072	67741	67319	29526	40775	6447		341,385
Folsom													
Gross	22501	21996	48677	62731	46760	46912	57358	32050	23900	22911	19537		405,333
Net	22249	21793	48489	62559	46587	46738	57158	31837	23711	22707	19351		403,179
Nimbus													
Gross	2602	2923	5958	7500	5623	5297	7111	4223	3185	3288	3265		50,975
Net	2584	2902	5936	7480	5603	5277	7092	4214	3156	3267	3242		50,753
New Melones													
Gross	4972	10484	23726	63176	61744	52164	55873	47771	33214	12063	2504		367,691
Net	4864	10386	23618	63054	61617	52053	55754	47656	33112	11978	2428		366,520
O'Neill													
Gross	0	0	0	1147	3037	2448	31	0	0	154	176		6,993
Net	0	0	0	1108	2934	2375	19	0	0	101	135		6,672
Fed San Luis													
Out Meter	0	0	1728	23275	0	53476	18928	5990	0	0	45		103,442
Gross Generation	225,974	144,986	234,868	344,669	495,288	652,423	707,362	538,402	330,468	293,365	182,159	0	4,149,964
Net Generation	224,679	143,779	233,706	343,562	494,140	651,286	706,192	537,303	329,469	292,185	180,870	0	4,137,171
Stampede (Gross)	327	529	1,500	2,100	2,176	1,812	843	291	244	1,217	150		11,189
Stampede (Net)	299	505	1,473	2,076	2,156	1,796	830	281	233	1,201	128		10,978
<u>Energy in mwh</u>													
Tracy													
Tot Energy	59504	46477	59914	29204	11716	34516	62001	60123	58812	58411	51031		531,709
Fed Off-Pk	28189	21469	28350	13551	5577	16371	29433	28184	29714	27837	25521		254,196
O'Neill													
Tot Energy	13372	5568	9108	3297	0	224	911	3995	6688	7420	9891		60,474
Fed Off-Pk	6419	2652	4324	1501	0	85	416	1810	3456	3680	4936		29,279
San Luis													
Fed Energy	69662	15015	18369	4898	114	63	78	864	36119	33110	44747		223,039
Fed Off-Pk	56537	14970	17559	1203	114	63	63	819	36044	31606	44672		203,650
Dos Amigos													
Fed Energy	4303	12059	11952	11333	13767	25629	24536	19673	3603	0	2409		129,264
Fed Off-Pk	3708	8174	8202	7898	9087	14304	14574	58893	4173	0	2379		131,392
Banks - Fed													
Fed Energy	0	0	0	0	0	0	13018	6444	17080	6094	3654		46,290
Fed Off-Pk	0	0	0	0	0	0	3193	1479	9850	4144	2484		21,150
Total Energy	146,841	79,119	99,343	48,732	25,597	60,432	100,544	91,099	122,302	105,035	111,732	0	990,776
Total Fed Off-Pk	94,853	47,265	58,435	24,153	14,778	30,823	47,679	91,185	83,237	67,267	79,992	0	639,667

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

Table 3

NOVEMBER 2002

SHASTA LAKE DAILY OPERATIONS

RUN DATE: December 19, 2002

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			
		2,414.1								
1	979.46	2,405.5	-8.6	3,291	7,527	0	0	86	.15	.00
2	979.10	2,398.5	-7.0	3,501	6,940	0	0	97	.17	.00
3	978.70	2,390.7	-7.8	3,191	6,983	0	0	120	.21	.00
4	978.48	2,386.5	-4.3	3,762	5,843	0	0	68	.12	.00
5	978.25	2,382.0	-4.5	4,229	6,391	0	0	85	.15	.00
6	978.25	2,382.0	+0.0	4,433	4,348	0	0	85	.15	.00
7	978.74	2,391.5	+9.5	9,385	4,570	0	0	29	.05	.62
8	978.86	2,393.8	+2.3	5,794	4,514	0	0	108	.19	3.31
9	978.78	2,392.3	-1.6	4,416	5,191	0	0	6	.01	.15
10	978.64	2,389.6	-2.7	3,655	4,902	0	0	120	.21	.83
11	978.45	2,385.9	-3.7	3,735	5,585	0	0	6	.01	.00
12	978.30	2,383.0	-2.9	3,938	5,386	0	0	17	.03	.00
13	978.16	2,380.3	-2.7	3,879	5,246	0	0	0	.00	.31
14	978.09	2,378.9	-1.4	4,305	4,955	0	0	34	.06	.00
15	977.95	2,376.2	-2.7	3,712	4,998	0	0	79	.14	.00
16	977.83	2,373.9	-2.3	3,694	4,820	0	0	40	.07	.00
17	977.70	2,371.4	-2.5	3,647	4,892	0	0	17	.03	.00
18	977.57	2,368.9	-2.5	3,712	4,946	0	0	28	.05	.00
19	977.45	2,366.6	-2.3	3,542	4,668	0	0	40	.07	.00
20	977.38	2,365.2	-1.3	3,706	4,301	0	0	85	.15	.00
21	977.22	2,362.1	-3.1	3,078	4,592	0	0	40	.07	.00
22	977.02	2,358.3	-3.9	2,500	4,415	0	0	28	.05	.00
23	976.88	2,355.6	-2.7	2,908	4,216	0	0	45	.08	.00
24	976.82	2,354.5	-1.2	3,844	4,373	0	0	51	.09	.00
25	976.69	2,352.0	-2.5	3,639	4,640	0	0	254	.45	.00
26	976.53	2,348.9	-3.1	3,255	4,547	0	0	253	.45	.00
27	976.38	2,346.0	-2.9	3,198	4,640	0	0	6	.01	.00
28	976.13	2,341.2	-4.8	3,049	5,255	0	0	208	.37	.00
29	975.96	2,338.0	-3.3	3,052	4,636	0	0	56	.10	.00
30	975.80	2,334.9	-3.0	3,619	5,110	0	0	45	.08	.00
TOTALS			-79.5	115,669	153,430	0	0	2,136	3.77	5.22
ACRE-Feet			-79,500	229,429	304,328	0	0	4,237		

COMMENTS:

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

SUMMARY

	RELEASE (ACRE-Feet)			PRECIPITATION
POWER	304,328	OUTLET	0	THIS MONTH = 5.22
SPILL	0	TOTAL	304,328	JULY 1, 2002 TO DATE = 5.22

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

Table 4

NOVEMBER 2002

TRINITY LAKE DAILY OPERATIONS

RUN DATE: December 19, 2002

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)	
		1,405.7								
1	2,295.08	1,404.8	-0.9	-125	0	0	340	0	.00	.00
2	2,295.04	1,404.3	-0.5	50	0	0	282	0	.00	.00
3	2,294.95	1,403.3	-1.0	25	0	0	465	81	.24	.00
4	2,294.94	1,403.2	-0.1	39	0	0	76	20	.06	.00
5	2,294.88	1,402.5	-0.7	55	0	0	378	24	.07	.00
6	2,294.82	1,401.8	-0.7	117	0	0	429	34	.10	.00
7	2,294.94	1,403.2	+1.4	983	12	0	254	24	.07	.29
8	2,295.18	1,406.0	+2.8	1,504	14	0	98	0	.00	1.75
9	2,295.28	1,407.1	+1.2	1,079	488	0	0	10	.03	.31
10	2,295.36	1,408.0	+0.9	823	344	0	0	14	.04	1.09
11	2,295.34	1,407.8	-0.2	652	751	0	0	17	.05	.06
12	2,295.24	1,406.6	-1.2	658	1,229	0	0	10	.03	.00
13	2,295.21	1,406.3	-0.3	232	406	0	0	0	.00	.25
14	2,295.13	1,405.4	-0.9	538	993	0	0	10	.03	.00
15	2,295.09	1,404.9	-0.5	104	322	0	0	14	.04	.00
16	2,294.97	1,403.5	-1.4	548	1,234	0	0	10	.03	.00
17	2,294.89	1,402.6	-0.9	0	455	0	0	7	.02	.00
18	2,294.78	1,401.4	-1.3	509	1,135	0	0	10	.03	.00
19	2,294.72	1,400.7	-0.7	0	336	0	0	10	.03	.00
20	2,294.62	1,399.5	-1.1	563	1,141	0	0	0	.00	.00
21	2,294.59	1,399.2	-0.3	218	388	0	0	3	.01	.00
22	2,294.56	1,398.8	-0.3	229	395	0	0	7	.02	.00
23	2,294.47	1,397.8	-1.0	416	923	0	0	13	.04	.00
24	2,294.42	1,397.2	-0.6	78	357	0	0	10	.03	.00
25	2,294.42	1,397.2	+0.0	321	321	0	0	0	.00	.00
26	2,294.38	1,396.8	-0.5	206	420	0	0	17	.05	.00
27	2,294.27	1,395.5	-1.3	591	1,216	0	0	10	.03	.00
28	2,294.15	1,394.1	-1.4	147	823	0	0	17	.05	.00
29	2,294.06	1,393.1	-1.0	29	536	0	0	13	.04	.00
30	2,294.02	1,392.6	-0.5	193	424	0	0	0	.00	.00
TOTALS			-13.0	10,782	14,663	0	2,322	385	1.14	3.75
ACRE-FEET			-13,000	21,386	29,084	0	4,606	764		

COMMENTS:

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

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

SUMMARY

RELEASE (ACRE-FEET)		PRECIPITATION	
POWER	29,084	OUTLET	4,606
SPILL	0	TOTAL	33,690
		THIS MONTH =	3.75
		JULY 1, 2002 TO DATE =	3.77

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

Table 5

NOVEMBER 2002

WHISKEYTOWN LAKE DAILY OPERATIONS

RUN DATE: December 19, 2002

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		
		216.1										
1	1,201.81	215.6	-0.5	-36	14	-50	200	0	32	6	.07	.00
2	1,201.80	215.5	+0.0	211	14	197	200	0	14	12	.14	.00
3	1,201.43	214.4	-1.1	1	14	-13	200	0	354	10	.11	.00
4	1,200.90	212.8	-1.6	5	14	-9	200	0	606	4	.04	.00
5	1,200.47	211.5	-1.3	39	14	25	200	0	484	4	.05	.00
6	1,199.48	208.6	-3.0	56	14	42	200	0	1,341	3	.03	.00
7	1,199.31	208.1	-0.5	1,045	14	1,031	200	0	1,100	0	.00	.84
8	1,198.57	205.9	-2.2	313	14	299	200	0	1,216	0	.00	4.84
9	1,198.28	205.0	-0.9	182	14	168	200	0	413	0	.00	.15
10	1,198.19	204.8	-0.3	80	14	66	200	0	14	0	.00	.68
11	1,198.33	205.2	+0.4	580	483	97	200	0	171	1	.01	.08
12	1,198.66	206.2	+1.0	959	828	131	200	0	269	0	.00	.00
13	1,198.42	205.4	-0.7	81	14	67	200	0	237	0	.00	.23
14	1,198.55	205.8	+0.4	649	564	85	200	0	256	0	.00	.00
15	1,198.30	205.1	-0.7	101	14	87	200	0	272	0	.00	.00
16	1,198.60	206.0	+0.9	936	830	106	200	0	281	9	.10	.00
17	1,198.35	205.2	-0.7	85	14	71	200	0	255	2	.02	.00
18	1,198.57	205.9	+0.6	757	706	51	200	0	229	1	.01	.00
19	1,198.22	204.9	-1.0	83	14	69	200	0	400	3	.03	.00
20	1,198.51	205.7	+0.9	805	725	80	200	0	171	3	.04	.00
21	1,198.41	205.4	-0.3	70	14	56	200	0	14	4	.05	.00
22	1,198.31	205.1	-0.3	68	14	54	200	0	14	3	.04	.00
23	1,198.50	205.7	+0.6	499	474	25	200	0	14	3	.04	.00
24	1,198.41	205.4	-0.3	83	21	62	200	0	14	3	.04	.00
25	1,198.31	205.1	-0.3	68	14	54	200	0	14	3	.03	.00
26	1,198.20	204.8	-0.3	54	14	40	200	0	14	3	.03	.00
27	1,198.59	205.9	+1.1	812	767	45	200	0	20	13	.15	.00
28	1,198.82	206.6	+0.7	568	513	55	200	0	14	12	.14	.00
29	1,198.71	206.3	-0.3	60	14	46	200	0	14	9	.10	.00
30	1,198.62	206.0	-0.3	84	14	70	200	0	14	4	.05	.00
TOTALS			-10.0	9,298	6,191	3,107	6,000	0	8,261	115	1.32	6.82
ACRE-FEET			-10.0	18,443	12,280	6,163	11,901	0	16,386	228		

* 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	16,386	OUTLET	11,901	THIS MONTH	6.82
SPILL	0	TOTAL	28,287	JULY 1, 2002 TO DATE	6.82

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

Table 6

NOVEMBER 2002

LEWISTON LAKE DAILY OPERATIONS

RUN DATE: December 19, 2002

DAY	ELEV	STORAGE ACRE-FEET		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
		14,023								
1	1,901.20	14,061	+38	333	80	30	190	14	0	.00
2	1,901.12	14,001	-60	284	80	30	190	14	0	.00
3	1,901.58	14,345	+344	492	80	30	190	14	5	.24
4	1,900.68	13,675	-670	-23	80	30	190	14	1	.06
5	1,900.94	13,867	+192	413	80	30	190	14	2	.07
6	1,901.22	14,076	+209	421	80	30	190	14	2	.10
7	1,901.15	14,023	-53	289	80	30	190	14	2	.07
8	1,901.10	13,986	-37	295	80	30	190	14	0	.00
9	1,901.43	14,233	+247	440	80	30	190	14	1	.03
10	1,901.37	14,188	-45	292	80	30	190	14	1	.04
11	1,901.08	13,971	-217	675	80	30	190	483	1	.05
12	1,901.09	13,978	+7	1,133	80	30	190	828	1	.03
13	1,901.10	13,986	+8	318	80	30	190	14	0	.00
14	1,901.21	14,068	+82	906	80	30	190	564	1	.03
15	1,901.04	13,941	-127	251	80	30	190	14	1	.04
16	1,901.03	13,933	-8	1,127	65	30	205	830	1	.03
17	1,901.04	13,941	+8	318	0	30	270	14	0	.02
18	1,901.13	14,008	+67	1,040	48	30	221	706	1	.03
19	1,900.99	13,904	-104	263	80	30	190	14	1	.03
20	1,901.00	13,911	+7	1,029	80	36	184	725	0	.00
21	1,901.02	13,926	+15	322	80	40	180	14	0	.01
22	1,901.10	13,986	+60	344	80	40	180	14	0	.02
23	1,901.33	14,158	+172	862	80	40	180	474	1	.04
24	1,901.19	14,053	-105	269	80	40	180	21	1	.03
25	1,900.99	13,904	-149	239	80	40	180	14	0	.00
26	1,901.04	13,941	+37	334	80	40	180	14	1	.05
27	1,901.01	13,918	-23	1,056	80	40	180	767	1	.03
28	1,900.65	13,653	-265	680	80	40	180	513	1	.05
29	1,901.10	13,986	+333	483	80	40	180	14	1	.04
30	1,901.14	14,016	+30	329	80	40	180	14	0	.00
TOTALS			-7	15,214	2,273	1,006	5,720	6,191	27	1.14
ACRE-FEET			-7	30,177	4,508	1,995	11,346	12,280	54	

* 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	4,508	JUDGE FRANCIS CARR POWERPLANT	12,280
TOTAL RIVER	17,849	TOTAL RELEASE	30,129

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

Table 7

NOVEMBER 2002

SPRING CREEK DEBRIS RESERVOIR DAILY OPERATIONS

RUN DATE: December 19, 2002

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	
		799								
1	707.87	801	+2	1	0	0				
2	707.92	803	+2	1	0	0				
3	708.03	806	+3	2	0	0				
4	708.06	807	+1	1	0	0				
5	708.12	808	+1	1	0	0				
6	708.19	810	+2	1	0	0				
7	712.73	943	+133	67	0	0				
8	713.72	974	+31	16	0	0				
9	714.17	988	+14	7	0	0				
10	714.56	1,001	+13	7	0	0				
11	714.56	1,001	+0	3	0	3				
12	714.39	995	-6	2	0	5				
13	714.05	985	-10	2	0	7				
14	713.26	959	-26	-3	0	10				
15	712.55	938	-21	-1	0	10				
16	711.69	912	-26	-3	0	10				
17	710.76	884	-28	-4	0	10				
18	709.78	855	-29	-5	0	10				
19	708.18	810	-45	-9	0	14				
20	706.78	771	-39	-10	0	10				
21	707.06	779	+8	4	0	0				
22	707.24	784	+5	3	0	0				
23	707.53	792	+8	4	0	0				
24	707.70	797	+5	3	0	0				
25	707.89	802	+5	3	0	0				
26	708.06	807	+5	3	0	0				
27	708.21	811	+4	2	0	0				
28	708.38	816	+5	3	0	0				
29	708.56	821	+5	3	0	0				
30	708.71	825	+4	2	0	0				
TOTALS			+26	106	0	89				
ACRE-FEET			+26	210	0	177				

COMMENTS:

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

SUMMARY

RELEASE (ACRE-FEET)

SPILL	0
OUTLET	177
TOTAL	177

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

Table 8

NOVEMBER 2002

KESWICK RESERVOIR DAILY OPERATIONS

RUN DATE: December 19, 2002

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)
		22,044								
1	585.75	22,978	+934	8,030	32	7,527	7,556	0	0	3
2	585.63	22,903	-75	7,498	14	6,940	7,533	0	0	3
3	585.69	22,940	+37	7,542	354	6,983	7,519	0	0	4
4	583.49	21,580	-1,360	6,840	606	5,843	7,524	0	0	2
5	584.11	21,958	+378	7,158	484	6,391	6,964	0	0	3
6	583.60	21,647	-311	5,980	1,341	4,348	6,134	0	0	3
7	583.73	21,726	+79	6,083	1,100	4,570	6,042	0	0	1
8	583.90	21,829	+103	6,083	1,216	4,514	6,028	0	0	3
9	583.45	21,556	-273	5,903	413	5,191	6,041	0	0	0
10	584.17	21,995	+439	6,257	14	4,902	6,032	0	0	4
11	584.47	22,180	+185	6,134	171	5,585	6,041	0	0	0
12	583.93	21,848	-332	5,876	269	5,386	6,042	0	0	1
13	583.54	21,611	-237	5,724	237	5,246	5,843	0	0	0
14	582.90	21,223	-388	5,453	256	4,955	5,648	0	0	1
15	582.94	21,247	+24	5,462	272	4,998	5,448	0	0	2
16	583.14	21,368	+121	5,274	281	4,820	5,212	0	0	1
17	583.86	21,805	+437	5,460	255	4,892	5,239	0	0	1
18	584.34	22,100	+295	5,388	229	4,946	5,238	0	0	1
19	584.45	22,168	+68	5,279	400	4,668	5,244	0	0	1
20	583.09	21,338	-830	4,571	171	4,301	4,986	0	0	3
21	583.23	21,423	+85	4,833	14	4,592	4,789	0	0	1
22	583.98	21,878	+455	4,837	14	4,415	4,607	0	0	1
23	583.47	21,568	-310	4,443	14	4,216	4,598	0	0	1
24	583.41	21,532	-36	4,564	14	4,373	4,580	0	0	2
25	583.82	21,781	+249	4,722	14	4,640	4,588	0	0	8
26	583.97	21,872	+91	4,659	14	4,547	4,605	0	0	8
27	584.94	22,470	+598	4,912	20	4,640	4,611	0	0	0
28	586.12	23,211	+741	5,560	14	5,255	5,179	0	0	7
29	584.97	22,488	-723	4,871	14	4,636	5,234	0	0	2
30	585.37	22,739	+251	5,344	14	5,110	5,216	0	0	1
TOTALS			+695	170,740	8,261	153,430	170,321	0	0	68
ACRE-FEET			+695	338,663	16,386	304,328	337,832	0	0	135

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

SUMMARY
 RELEASE (ACRE-FEET)

POWER	337,832
SPILL	0
FISH TRAP	0

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

Table 9

NOVEMBER 2002 **RED BLUFF DIVERSION RESERVOIR DAILY OPERATIONS** RUN DATE: December 19, 2002

DAY	ELEVATION	STORAGE		RELEASE C.F.S		RELEASE TO SACTO RIVER
		IN LAKE	ACRE-FEET CHANGE	CORNING CANAL	TEHAMA COLUSA CANAL	
		378				
1	239.23	378	+0	17	115	7,572
2	239.24	379	+1	33	102	7,361
3	239.24	379	+0	14	118	7,452
4	239.22	376	-3	0	131	7,583
5	239.25	380	+4	8	106	7,725
6	239.26	381	+1	9	57	7,683
7	239.25	380	-1	0	18	7,579
8	239.15	368	-12	0	0	6,543
9	239.06	357	-11	0	0	6,414
10	239.07	358	+1	0	0	6,611
11	239.07	358	+0	0	0	6,540
12	239.08	360	+2	0	0	6,418
13	239.04	355	-5	0	0	6,176
14	238.99	349	-6	0	0	6,084
15	238.90	340	-9	0	0	5,879
16	238.65	314	-26	0	0	5,300
17	238.62	311	-3	0	0	5,100
18	238.60	309	-2	0	0	5,050
19	238.61	310	+1	0	0	5,050
20	238.64	313	+3	0	0	5,364
21	238.65	314	+1	0	0	5,299
22	238.59	308	-6	28	0	5,206
23	238.51	300	-8	14	0	5,114
24	238.44	293	-7	0	0	5,006
25	238.44	293	+0	0	0	4,974
26	238.42	291	-2	0	0	5,074
27	238.45	294	+3	36	0	5,102
28	238.48	297	+3	0	0	5,228
29	238.50	299	+2	0	0	5,319
30	238.54	303	+4	0	0	5,462
TOTALS			-75	159	647	181,268
ACRE-FEET			-75	315	1,283	359,545

SUMMARY

RELEASE (ACRE-FEET)

CORNING CANAL	315
TEHAMA-COLUSA CANAL	1,283
TO SACTO RIVER	359,545
TOTAL	361,143

TABLE 10

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

DAILY OPERATION OF BLACK BUTTE RESERVOIR, STONY CREEK, CALIFORNIA

NOVEMBER 2002

Date	Midnight	Storage Change (ac-ft)	Mean Inflow (sfd)	an Outflow -----					Gross Evap (ac-ft)	Pan Evap (in)	Prec (in)	Total U S Storage (ac-ft)	Top Con Storage (ac-ft)
	Elev (ft)			Storage (ac-ft)	Total (sfd)	River (sfd)	[1] (sfd)	[2] (sfd)					
1	434.74	23256	-220	26	125	66	59	0	23	0.21	0	25397	64700
2	434.73	23242	-14	32	29	29	0	0	19	0.17	0	25402	63000
3	434.7	23201	-41	16	29	29	0	0	15	0.14	0	25416	61200
4	434.68	23173	-28	21	29	29	0	0	13	0.12	0	25428	59600
5	434.65	23132	-41	13	29	29	0	0	10	0.09	0	25418	57800
6	434.62	23091	-41	10	29	29	0	0	3	0.03	0.6	25488	56100
7	434.73	23242	151	106	29	29	0	0	2	0.02	0.67	25687	54300
8	434.75	23270	28	43	27	27	0	0	3	0.03	0.27	25966	52400
9	434.77	23297	27	46	29	29	0	0	7	0.06	0.13	26340	50900
10	434.84	23393	96	79	29	29	0	0	4	0.04	0.07	27023	49800
11	435.04	23671	278	174	29	29	0	0	9	0.08	0	27349	49800
12	435.13	23797	126	95	29	29	0	0	4	0.04	0.15	27619	47900
13	435.17	23853	56	62	29	29	0	0	9	0.08	0	27827	47900
14	435.18	23867	14	45	29	29	0	0	17	0.15	0	27980	47500
15	435.2	23895	28	47	29	29	0	0	8	0.07	0	28130	47400
16	435.21	23909	14	41	29	29	0	0	9	0.08	0	28232	47300
17	435.2	23895	-14	29	29	29	0	0	14	0.12	0	28340	47500
18	435.19	23881	-14	24	29	29	0	0	5	0.04	0	28450	47100
19	435.17	23853	-28	22	29	29	0	0	15	0.13	0	28547	47000
20	435.16	23839	-14	26	28	28	0	0	11	0.1	0	28626	46900
21	435.15	23825	-14	25	29	29	0	0	6	0.05	0	28640	46800
22	435.12	23783	-42	10	29	29	0	0	4	0.04	0	28809	46700
23	435.1	23755	-28	16	29	29	0	0	3	0.03	0	28870	46600
24	435.07	23713	-42	12	29	29	0	0	8	0.07	0	28940	46600
25	435.02	23643	-70	8	29	29	0	0	29	0.26	0	28980	46500
26	434.98	23587	-56	15	29	29	0	0	28	0.25	0	29057	46400
27	434.95	23546	-41	22	29	29	0	0	27	0.24	0	29141	46300
28	434.92	23504	-42	14	29	29	0	0	12	0.11	0	29213	46300
29	434.89	23463	-41	10	29	29	0	0	4	0.04	0	29286	46200
30	434.86	23421	-42	11	29	29	0	0	6	0.05	0	29763	46100
Totals	(sfd)			1100	963	904	59	0					
Totals	(ac-ft)		-55	2182	1910.1	1793.1			327				
Totals	(inches)									2.94	1.89		

[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

NOVEMBER 2002

FOLSOM LAKE DAILY OPERATIONS

RUN DATE: December 19, 2002

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	410.91	456.8		1,691	1,058	0	527	143	38	.15	.00
2	410.78	456.6	-0.1	1,137	925	0	527	138	38	.15	.00
3	410.57	455.7	-1.0	913	1,002	0	527	141	35	.14	.00
4	410.52	454.1	-1.6	1,564	1,068	0	527	140	18	.07	.00
5	410.36	453.7	-0.4	1,195	1,094	0	527	142	35	.14	.00
6	410.36	452.5	-1.2								
7	410.16	451.0	-1.5	998	1,055	0	527	145	25	.10	.00
8	410.13	450.8	-0.2	1,638	1,091	0	526	104	30	.12	.19
9	410.20	451.3	+0.5	1,981	1,048	0	526	98	45	.18	1.27
10	410.75	455.4	+4.1	3,765	1,003	0	527	92	68	.27	.38
11	410.83	456.0	+0.6	1,938	977	0	527	93	40	.16	.16
12	411.15	458.4	+2.4	2,774	928	0	527	98	8	.03	.06
13	411.38	460.2	+1.7	2,449	928	0	528	99	18	.07	.00
14	411.47	460.8	+0.7	1,935	956	0	528	93	15	.06	.00
15	411.54	461.4	+0.5	1,903	1,006	0	528	87	15	.06	.00
16	411.60	461.8	+0.5	2,059	1,194	0	528	88	20	.08	.00
17	411.59	461.8	-0.1	1,729	1,124	0	528	100	15	.06	.00
18	411.43	460.5	-1.2	1,093	1,056	0	528	106	13	.05	.00
19	411.33	459.8	-0.8	1,215	939	0	528	109	20	.08	.00
20	411.33	459.8	+0.0	1,509	1,063	0	331	102	13	.05	.00
21	411.12	458.2	-1.6	1,155	1,839	0	0	103	13	.05	.00
22	411.01	457.4	-0.8	1,389	1,687	0	0	106	15	.06	.00
23	410.87	456.3	-1.0	1,262	1,671	0	0	107	13	.05	.00
24	410.81	455.9	-0.4	1,251	1,353	0	0	106	18	.07	.00
25	410.48	453.4	-2.5	1,156	2,285	0	0	106	10	.04	.00
26	410.32	452.2	-1.2	1,431	1,920	0	0	106	8	.03	.00
27	410.29	452.0	-0.2	2,029	2,012	0	0	107	23	.09	.00
28	410.17	451.1	-0.9	1,621	1,948	0	0	112	13	.05	.00
29	409.98	449.7	-1.4	1,273	1,862	0	0	110	17	.07	.00
30	409.73	447.8	-1.9	930	1,746	0	0	107	10	.04	.00
30	409.55	446.5	-1.3	1,286	1,837	0	0	106	15	.06	.00
TOTALS			-10.3	48,269	39,675	0	9,822	3,294	664	2.63	2.06
ACRE-Feet			-10,300	95,742	78,695	0	19,482	6,534	1,317		

COMMENTS:

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

SUMMARY

	RELEASE (ACRE-Feet)		PRECIPITATION	
POWER	78,695	OUTLET	19,482	THIS MONTH = 2.06
SPILL	0	TOTAL	104,711	JULY 1, 2002 TO DATE = 2.06
PUMPING PLANT	6,534			

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

Table 12

NOVEMBER 2002

LAKE NATOMA DAILY OPERATIONS

RUN DATE: December 19, 2002

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	123.92	8,209	+14	1,543	32	1,442	0	60	2
2	123.52	8,223	-188	1,446	37	1,442	0	60	2
3	123.34	8,035	-84	1,509	40	1,449	0	60	2
4	123.40	7,951	+28	1,555	40	1,440	0	60	1
5	123.48	7,979	+38	1,565	40	1,444	0	60	2
6	123.48	8,017							
6	123.47	8,012	-5	1,542	40	1,444	0	60	1
7	123.91	8,219	+207	1,652	40	1,446	0	60	2
8	124.36	8,441	+222	1,663	40	1,449	0	60	2
9	124.27	8,396	-45	1,531	40	1,451	0	60	3
10	124.08	8,301	-95	1,498	40	1,444	0	60	2
11	123.70	8,120	-181	1,453	40	1,444	0	60	0
12	123.32	7,941	-179	1,454	40	1,443	0	60	1
13	123.00	7,791	-150	1,472	43	1,444	0	60	1
14	122.81	7,706	-85	1,509	45	1,446	0	60	1
15	123.27	7,918	+212	1,658	45	1,445	0	60	1
16	123.51	8,031	+113	1,607	45	1,444	0	60	1
17	123.50	8,026	-5	1,550	45	1,447	0	60	1
18	123.13	7,852	-174	1,460	45	1,442	0	60	1
19	122.42	7,530	-322	1,394	45	1,450	0	60	1
20	123.19	7,880	+350	1,731	45	1,449	0	60	1
21	123.51	8,031	+151	1,625	44	1,444	0	60	1
22	123.67	8,106	+75	1,587	40	1,448	0	60	1
23	121.94	7,316	-790	1,381	40	1,678	0	60	1
24	123.35	7,956	+640	2,122	40	1,698	0	60	1
25	123.53	8,040	+84	1,838	40	1,696	0	60	0
26	124.00	8,261	+221	1,907	40	1,695	0	60	1
27	124.29	8,406	+145	1,867	40	1,693	0	60	1
28	124.21	8,366	-40	1,773	40	1,692	0	60	1
29	123.79	8,162	-204	1,697	40	1,699	0	60	1
30	123.68	8,111	-51	1,768	40	1,693	0	60	1
TOTALS			-98	48,357	1,231	45,341	0	1,800	37
ACRE-FEET			-98	95,916	2,442	89,934	0	3,570	73

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	89,934	FOLSOM SOUTH CANAL	2,442	TOTAL	95,946
SPILL	0	HATCHERY	3,570		

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

Table 13

NOVEMBER 2002

NEW MELONES LAKE DAILY OPERATIONS

RUN DATE: December 19, 2002

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		
		1,287.9									
1	979.33	1,288.9	+1.0	858	14	0	275	57	.21	.00	
2	979.48	1,290.1	+1.3	722	0	0	41	41	.15	.00	
3	979.56	1,290.8	+0.7	435	14	0	55	25	.09	.00	
4	979.46	1,290.0	-0.8	455	14	0	821	47	.17	.00	
5	979.29	1,288.5	-1.4	336	14	0	1,006	41	.15	.00	
6	979.36	1,289.1	+0.6	399	14	0	40	47	.17	.00	
7	979.59	1,291.1	+1.9	1,075	14	0	41	38	.14	.31	
8	979.98	1,294.4	+3.3	2,151	39	0	420	27	.10	1.63	
9	980.25	1,296.7	+2.3	1,198	0	0	41	0	.00	2.09	
10	980.36	1,297.6	+0.9	540	14	0	41	14	.05	.00	
11	980.49	1,298.7	+1.1	623	14	0	41	11	.04	.03	
12	980.40	1,297.9	-0.8	529	14	0	890	11	.04	.03	
13	980.37	1,297.7	-0.3	396	14	0	500	11	.04	.02	
14	980.40	1,297.9	+0.3	417	14	0	263	11	.04	.00	
15	980.38	1,297.8	-0.2	476	14	0	537	11	.04	.00	
16	980.44	1,298.3	+0.5	345	14	0	41	33	.12	.00	
17	980.50	1,298.8	+0.5	328	14	0	41	16	.06	.00	
18	980.40	1,297.9	-0.9	449	14	0	845	19	.07	.00	
19	980.41	1,298.0	+0.1	570	14	0	491	22	.08	.00	
20	980.51	1,298.9	+0.8	461	14	0	0	19	.07	.00	
21	980.35	1,297.5	-1.4	364	1,030	0	0	19	.07	.00	
22	980.32	1,297.3	-0.3	524	615	0	0	38	.14	.00	
23	980.38	1,297.8	+0.5	666	393	0	0	16	.06	.00	
24	980.53	1,299.0	+1.3	670	14	0	0	14	.05	.00	
25	980.68	1,300.3	+1.3	671	14	0	0	14	.05	.00	
26	980.81	1,301.4	+1.1	596	14	0	0	25	.09	.00	
27	980.71	1,300.6	-0.9	659	1,077	0	0	11	.04	.00	
28	980.86	1,301.8	+1.3	665	14	0	0	8	.03	.00	
29	981.01	1,303.1	+1.3	687	14	0	0	30	.11	.00	
30	981.14	1,304.2	+1.1	596	14	0	0	22	.08	.00	
TOTALS			+16.2	18,861	3,476	0	6,430	698	2.55	4.11	
ACRE-FEET			+16,200	37,411	6,895	0	12,754	1,384			

COMMENTS:

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

SUMMARY

RELEASE (ACRE-FEET)		PRECIPITATION	
POWER	6,895	OUTLET	12,754
SPILL	0	TOTAL	19,649
		THIS MONTH =	4.11
		JULY 1, 2002 TO DATE =	4.11

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

NOVEMBER 2002

GOODWIN RESERVOIR DAILY OPERATIONS

RUN DATE: September 14, 2004

DAY	ELEV	STORAGE		TULLOCH	RIVER		RELEASE - C.F.S.	
		ACRE-FEET RES.	CHANGE		RELEASE	OUTLET	SPILL	JOINT MAIN
		537						
1	360.00	537	+0	304	0	248	2	0
2	360.00	537	+0	304	0	249	5	0
3	360.00	537	+0	304	0	251	5	0
4	360.00	537	+0	306	0	250	5	0
5	360.00	537	+0	307	0	251	5	0
6	360.00	537	+0	303	0	245	5	0
7	360.03	539	+2	316	0	270	5	0
8	360.03	539	+0	314	0	296	5	0
9	360.03	539	+0	319	0	296	2	0
10	360.05	541	+2	317	0	295	0	0
11	360.03	539	-2	319	0	297	0	0
12	360.03	539	+0	329	0	291	0	0
13	360.03	539	+0	325	0	301	0	0
14	360.03	539	+0	323	0	297	0	0
15	360.03	539	+0	323	0	299	0	0
16	360.03	539	+0	317	0	299	0	0
17	360.03	539	+0	321	0	301	0	0
18	360.03	539	+0	317	0	295	0	0
19	360.03	539	+0	318	0	298	0	0
20	360.03	539	+0	317	0	297	0	0
21	360.03	539	+0	318	0	296	1	0
22	360.03	539	+0	317	0	293	4	0
23	360.03	539	+0	318	0	293	4	0
24	360.03	539	+0	318	0	293	3	0
25	360.03	539	+0	318	0	295	3	0
26	360.03	539	+0	319	0	296	3	0
27	360.03	539	+0	315	0	294	3	0
28	360.03	539	+0	313	0	295	3	0
29	360.03	539	+0	314	0	295	3	0
30	360.03	539	+0	314	0	296	7	0
TOTALS			+2	9,467	0	8,572	73	0
ACRE-FEET			+2	18,778	0	17,003	145	0

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

SUMMARY
 RELEASE (ACRE-FEET)

JOINT MAIN CANAL	145	OUTLET	0
SOUTH MAIN CANAL	0	SPILL	17,003
		TOTAL	17,148

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

Table 15

NOVEMBER 2002

MILLERTON LAKE DAILY OPERATIONS

RUN DATE: December 19, 2002

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			
		218.6									
1	500.85	218.2	-0.4	496	0	544	0	146	14	.15	
2	500.97	218.5	+0.4	751	0	416	0	146	11	.11	
3	501.23	219.3	+0.8	929	0	381	0	146	12	.12	
4	501.25	219.3	+0.1	617	0	430	0	146	11	.11	
5	501.26	219.4	+0.0	598	0	421	0	146	16	.17	
6	501.25	219.3	+0.0	545	0	400	0	146	14	.15	
7	501.60	220.4	+1.0	851	0	167	0	146	13	.14	
8	502.60	223.4	+3.0	1,653	0	0	0	132	13	.13	
9	504.65	229.6	+6.2	3,316	0	0	0	115	70	.71	
10	505.23	231.4	+1.8	1,030	0	0	0	117	18	.18	
11	505.73	232.9	+1.5	904	0	0	0	117	12	.12	
12	506.05	233.9	+1.0	618	0	0	0	117	4	.04	
13	506.42	235.0	+1.1	704	0	0	0	117	9	.09	
14	506.62	235.7	+0.6	431	0	0	0	117	1	.01	
15	506.86	236.4	+0.7	493	0	0	0	117	1	.01	
16	507.13	237.2	+0.8	546	0	0	0	117	6	.06	
17	507.45	238.2	+1.0	628	0	0	0	117	6	.06	
18	507.70	239.0	+0.8	516	0	0	0	117	5	.05	
19	507.98	239.9	+0.9	566	0	0	0	117	8	.08	
20	508.39	241.2	+1.3	772	0	0	0	117	4	.04	
21	508.79	242.4	+1.3	759	0	0	0	117	6	.06	
22	509.18	243.7	+1.2	747	0	0	0	115	10	.10	
23	509.48	244.6	+1.0	597	0	0	0	114	3	.03	
24	509.79	245.6	+1.0	618	0	0	0	115	6	.06	
25	510.16	246.8	+1.2	711	0	0	0	115	2	.02	
26	510.49	247.9	+1.1	647	0	0	0	115	1	.01	
27	510.84	249.0	+1.1	683	0	0	0	115	5	.05	
28	511.19	250.1	+1.1	690	0	0	0	115	9	.09	
29	511.54	251.2	+1.1	690	0	0	0	115	7	.07	
30	511.88	252.3	+1.1	684	0	0	0	115	17	.16	
TOTALS			+33.7	23,790	0	2,759	0	3,707	314	3.18	1.94
ACRE-FEET			+33,745	47,187	0	5,472	0	7,353	623		

COMMENTS:

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

SUMMARY			
RELEASE (ACRE-FEET)		PRECIPITATION	
CANALS	RIVER		
FRIANT-KERN	AT FRIANT	THIS MONTH =	1.94
MADERA	TOTAL RELEASES	JULY 1, 2002 TO DATE =	1.94

Table 16

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

November 2002

Estimated numbers are in bold italic print

Date	DELTA INFLOW								NDCU	DELTA EXPORTS							OUTFLOW INDEX			Export/Inflow		
	Sacto R @Freeport	SRTP	Yolo + Misc	East Side Streams	S. Joaquin River@Vernalis	7-day Average	Monthly Average	Total Delta Inflow		Clifton Court	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 (%)
	-prev day-	-prev wk-	-prev day-	-prev day-	-prev day-					(CLT)	(TRA)	(CCC)	(BBID)		Exports	TRA & CLT	daily	Avg	Avg	(%)	(%)	(%)
1-Nov-02	10,347	154	0	197	1,713	1,998	1,643	12,411	1,700	3,991	2,106	68	7	29	6,187	6,131	4,524	4,033	4,524	49.1%	49.2%	51.2%
2-Nov-02	10,265	154	0	202	1,643	1,885	1,611	12,264	1,700	1,494	4,367	69	10	40	5,960	6,019	4,604	4,132	4,564	47.7%	48.4%	50.0%
3-Nov-02	10,352	154	0	196	1,578	1,784	1,600	12,280	1,700	1,995	4,255	72	10	49	6,360	6,070	4,220	4,237	4,449	50.8%	49.2%	50.2%
4-Nov-02	10,303	154	0	193	1,579	1,702	1,587	12,229	1,700	3,494	2,076	76	10	68	5,704	5,894	4,825	4,432	4,543	45.5%	48.0%	48.5%
5-Nov-02	10,392	155	0	555	1,549	1,638	1,582	12,651	1,700	3,497	1,593	57	0	85	5,231	5,637	5,720	4,700	4,778	40.2%	45.5%	46.1%
6-Nov-02	10,705	156	0	429	1,560	1,597	1,577	12,850	1,700	1,497	2,367	70	0	87	4,021	4,841	7,129	5,094	5,170	30.1%	38.5%	39.3%
7-Nov-02	11,271	157	0	293	1,554	1,578	1,578	13,275	1,700	1,491	4,223	75	0	79	5,867	4,889	5,708	5,247	5,247	43.0%	37.8%	39.4%
8-Nov-02	11,479	157	0	298	1,586	1,588	1,595	13,520	-3,827	1,492	2,873	64	0	59	4,488	4,648	12,860	6,438	6,199	32.3%	35.2%	37.1%
9-Nov-02	13,939	158	0	363	1,711	1,648	1,640	16,171	-10,902	1,492	1,345	63	0	53	2,953	4,305	24,120	9,226	8,190	17.5%	30.1%	33.6%
10-Nov-02	15,206	159	0	592	2,000	1,701	1,670	17,957	-11,130	1,491	1,056	65	0	55	2,666	3,250	26,421	12,397	10,013	14.2%	20.5%	24.5%
11-Nov-02	15,221	160	0	499	1,944	1,749	1,690	17,824	-11,358	2,997	3,139	65	0	59	6,260	3,840	22,922	14,983	11,186	34.4%	22.2%	28.2%
12-Nov-02	15,384	164	0	412	1,887	1,789	1,703	17,847	-11,358	3,992	4,335	59	0	73	8,459	5,670	20,746	17,129	11,983	46.7%	31.7%	40.5%
13-Nov-02	14,886	167	0	381	1,844	1,823	1,710	17,278	-5,881	4,993	4,247	59	0	62	9,361	7,901	13,798	18,082	12,123	53.5%	44.8%	55.0%
14-Nov-02	14,572	171	0	340	1,792	1,846	1,712	16,875	1,194	5,496	4,273	68	0	53	9,890	9,112	5,791	18,094	11,670	57.9%	52.6%	62.1%
15-Nov-02	14,209	174	0	334	1,746	1,848	1,713	16,463	1,472	5,722	4,256	70	0	56	10,104	9,662	4,888	16,955	11,218	60.6%	57.3%	64.6%
16-Nov-02	13,558	178	0	330	1,722	1,802	1,711	15,788	1,700	5,715	4,253	72	0	59	10,099	9,905	3,989	14,079	10,766	63.1%	60.5%	65.1%
17-Nov-02	12,884	181	0	321	1,679	1,759	1,707	15,065	1,700	5,491	4,271	76	0	45	9,883	9,903	3,482	10,802	10,338	64.8%	62.8%	64.2%
18-Nov-02	12,325	185	0	312	1,646	1,721	1,702	14,468	1,700	4,898	4,269	71	0	56	9,294	9,632	3,474	8,024	9,957	63.4%	63.8%	61.8%
19-Nov-02	11,994	181	0	310	1,621	1,686	1,697	14,106	1,700	3,998	4,015	70	0	59	8,141	8,981	4,265	5,670	9,657	56.8%	61.7%	57.3%
20-Nov-02	11,532	178	0	306	1,595	1,655	1,691	13,611	1,750	4,992	4,077	71	0	68	9,208	8,750	2,653	4,078	9,307	66.6%	62.2%	55.6%
21-Nov-02	11,101	174	0	306	1,579	1,631	1,685	13,160	1,750	3,497	4,449	79	0	56	8,081	8,343	3,329	3,726	9,022	60.4%	61.2%	53.1%
22-Nov-02	10,761	171	0	306	1,573	1,608	1,680	12,811	1,750	2,991	4,237	88	0	70	7,386	8,081	3,675	3,553	8,779	56.4%	61.2%	51.6%
23-Nov-02	10,102	167	0	315	1,561	1,585	1,673	12,145	1,750	1,994	4,236	86	0	65	6,381	7,135	4,014	3,556	8,572	51.3%	56.2%	46.4%
24-Nov-02	10,657	164	0	318	1,521	1,564	1,665	12,660	1,750	2,491	4,200	81	0	62	6,834	6,717	4,076	3,641	8,385	52.9%	53.6%	44.8%
25-Nov-02	10,666	160	0	317	1,498	1,545	1,658	12,641	1,800	2,498	4,228	78	0	64	6,867	6,549	3,974	3,712	8,208	53.2%	52.5%	44.7%
26-Nov-02	10,442	159	0	314	1,487	1,525	1,650	12,402	1,800	2,298	4,250	77	0	73	6,698	6,655	3,904	3,661	8,043	52.8%	53.0%	46.7%
27-Nov-02	10,194	158	0	306	1,457	1,504	1,642	12,115	1,850	2,091	4,205	79	0	69	6,444	6,523	3,821	3,827	7,886	52.0%	52.7%	47.0%
28-Nov-02	10,259	157	0	312	1,428	1,481	1,634	12,156	1,900	2,096	4,205	73	0	74	6,448	6,382	3,807	3,896	7,741	51.8%	52.2%	47.1%
29-Nov-02	10,253	155	0	306	1,416	1,460	1,626	12,130	1,900	1,992	4,249	59	0	73	6,373	6,279	3,857	3,922	7,607	51.4%	51.8%	47.5%
30-Nov-02	10,005	154	0	307	1,411	1,444	1,619	11,877	1,950	1,999	4,279	59	0	71	6,408	6,274	3,519	3,851	7,470	52.9%	52.0%	48.4%
Total	355,264	4,916	0	9,970	48,880	50,145	49,653	419,030	-13,142	94,177	109,933	2,116	37	1,869	208,058	203,976	224,113	225,177	247,595	1473.3%	1468.0%	1451.7%
Average	11,842	164	0	332	1,629	1,672	1,655	13,968	-438	3,139	3,664	71	1	62	6,935	6,799	7,470	7,506		49.1%	48.9%	48.4%

NOVEMBER 2002

CONSOLIDATED STATE-FEDERAL SAN LUIS RESERVOIR
DAILY OPERATIONS

RUN DATE: December 19, 2002

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	
		649,730									
1	415.07	647,748	-1,982	2,324	2,887	268	0	-167	53	.19	.00
2	415.07	647,748	+0	3,082	2,413	269	0	-400	42	.15	.00
3	416.18	657,334	+9,586	5,570	0	252	0	-486	50	.18	.00
4	416.55	660,542	+3,208	2,383	0	247	0	-519	48	.17	.00
5	416.60	660,975	+433	2,544	2,193	214	0	+82	51	.18	.00
6	416.31	658,461	-2,514	2,543	3,615	186	0	-10	45	.16	.00
7	416.33	658,634	+173	2,544	3,064	140	0	+747	20	.07	.20
8	417.35	667,496	+8,862	4,304	0	132	0	+296	81	.29	1.35
9	416.20	657,508	-9,988	0	5,728	114	0	+807	0	.00	.46
10	416.15	657,075	-433	0	0	109	0	-109	42	.15	.00
11	416.64	661,323	+4,248	2,546	0	116	0	-288	17	.06	.00
12	417.22	666,364	+5,041	2,635	0	134	0	+40	34	.12	.01
13	418.03	673,429	+7,065	3,826	0	124	0	-140	20	.07	.00
14	419.17	683,419	+9,990	5,285	0	134	0	-114	17	.06	.00
15	420.51	695,232	+11,813	6,107	0	124	0	-28	29	.10	.00
16	421.88	707,387	+12,155	6,211	0	128	0	+45	20	.07	.02
17	423.60	722,760	+15,373	8,039	0	134	0	-155	20	.07	.00
18	424.65	732,205	+9,445	5,009	0	197	0	-50	15	.05	.00
19	425.30	738,075	+5,870	3,170	0	238	0	+28	18	.06	.00
20	426.11	745,402	+7,327	3,924	0	223	0	-7	21	.07	.00
21	427.19	755,210	+9,808	5,428	0	235	0	-249	12	.04	.00
22	427.94	762,047	+6,837	3,325	0	230	0	+352	18	.06	.00
23	428.13	763,782	+1,735	2,803	1,938	223	0	+234	27	.09	.00
24	428.53	767,440	+3,658	2,400	0	226	0	-330	33	.11	.00
25	428.43	766,525	-915	3,346	3,582	232	0	+8	6	.02	.00
26	428.80	769,912	+3,387	3,354	1,358	245	0	-43	21	.07	.00
27	429.46	775,968	+6,056	3,353	0	232	0	-67	21	.07	.00
28	430.07	781,579	+5,611	3,693	577	240	0	-47	18	.06	.00
29	430.39	784,527	+2,948	2,527	720	236	0	-85	15	.05	.00
30	430.72	787,573	+3,046	2,166	507	424	0	+300	6	.02	.00
TOTALS			+137,843	104,441	28,582	6,006	0	-355	820	2.86	2.04
ACRE-FEET			+137,843	207,159	56,692	11,913	0	-704	1,626		

SUMMARY

	RELEASE (ACRE-FEET)		PRECIPITATION	
POWER	56,692	SPILL	0	THIS MONTH = 2.04
PACHECO TUNNEL	11,913	TOTAL	68,605	JULY 1, 2002 TO DATE = 2.04

NOVEMBER 2002

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

RUN DATE: December 19, 2002

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		
		47,388									
1	223.64	52,759	+5,371	1,444	2,887	3,940	591	2,324	3,152		+504
2	223.47	52,303	-456	2,442	2,413	960	0	3,082	3,252		+290
3	219.96	43,048	-9,255	2,730	0	1,817	0	5,570	4,181		+539
4	219.48	41,810	-1,238	1,377	0	3,133	604	2,383	2,694		+547
5	219.25	41,221	-589	900	2,193	3,057	594	2,544	3,468		+159
6	219.81	42,660	+1,439	1,265	3,615	1,603	348	2,543	2,787		-78
7	221.00	45,760	+3,100	2,828	3,064	1,458	0	2,544	3,323		+80
8	218.50	39,323	-6,437	2,569	0	1,493	0	4,304	3,008		+5
9	221.87	48,045	+8,722	988	5,728	1,086	0	0	3,052		-353
10	220.42	44,244	-3,801	625	0	1,545	0	0	4,330		+244
11	219.37	41,528	-2,716	1,681	0	2,125	0	2,546	2,677		+47
12	220.57	44,635	+3,107	3,469	0	3,262	0	2,635	2,640		+110
13	222.53	49,793	+5,158	3,573	0	5,261	0	3,826	2,736		+327
14	222.61	50,006	+213	3,570	0	4,677	0	5,285	2,832		-23
15	222.52	49,767	-239	3,579	0	5,006	0	6,107	2,814		+216
16	222.23	48,995	-772	3,599	0	4,840	0	6,211	2,783		+165
17	220.30	43,931	-5,064	3,600	0	5,202	0	8,039	3,571		+255
18	220.22	43,723	-208	3,604	0	4,595	0	5,009	3,035		-260
19	221.24	46,390	+2,667	3,588	0	3,632	0	3,170	3,047		+342
20	221.54	47,178	+788	3,259	0	4,381	0	3,924	3,526		+208
21	219.62	42,170	-5,008	3,471	0	3,191	0	5,428	3,745		-14
22	219.10	40,839	-1,331	3,639	0	2,861	0	3,325	3,391		-454
23	220.12	43,463	+2,624	3,580	1,938	2,536	0	2,803	4,127		+198
24	219.03	40,660	-2,803	3,581	0	2,536	0	2,400	5,268		+137
25	221.06	45,918	+5,258	3,501	3,582	2,194	0	3,346	3,243		-38
26	221.28	46,495	+577	3,416	1,358	2,227	0	3,354	3,270		-86
27	220.00	43,152	-3,343	3,429	0	1,818	0	3,353	3,666		+86
28	218.60	39,573	-3,579	3,367	577	1,980	0	3,693	3,990		-45
29	219.19	41,068	+1,495	3,340	720	1,977	0	2,527	2,816		+59
30	219.37	41,528	+460	3,404	507	1,972	0	2,166	3,529		+179
TOTALS			-5,860	85,418	28,582	86,365	2,137	104,441	99,953		+3,346
ACRE-FEET			-5,860	169,427	56,692	171,305	4,239	207,159	198,257	268	6,637

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

SUMMARY
RELEASE (ACRE-FEET)

O'NEILL GEN.	4,239	DOS AMIGOS PUMP	198,257
SAN LUIS PUMP	207,159	DELIVERIES	268
		TOTAL	409,923

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

Table 19

NOVEMBER 2002

FEDERAL-STATE OPERATIONS
 SAN LUIS UNIT

RUN DATE: December 19, 2002

DAY	AQUEDUCT CHECK 12			O'NEILL			SAN LUIS			SAN LUIS			PACHECO PUMP	DOS AMIGOS			
	STATE	FED	TOTAL	PUMPING	GENER	GENER	PUMPING	GENERATION	GENERATION	FED	STATE	TOTAL		FED	STATE	TOTAL	
1	3,713	4,101	7,814	2,864	0	2,864	1,172	4,894	-285	4,609	0	5,727	5,727	532	0	6,252	6,252
2	1,904	0	1,904	4,843	0	4,843	0	4,975	1,139	6,114	0	4,787	4,787	533	0	6,451	6,451
3	3,604	0	3,604	5,414	0	5,414	0	11,468	-420	11,048	0	0	0	499	0	8,294	8,294
4	2,114	4,101	6,215	2,732	0	2,732	1,199	5,107	-380	4,727	0	0	0	490	0	5,344	5,344
5	1,962	4,101	6,063	1,785	0	1,785	1,178	5,134	-88	5,046	0	4,350	4,350	425	0	6,879	6,879
6	3,179	0	3,179	2,510	0	2,510	691	5,127	-82	5,045	0	7,170	7,170	369	0	5,529	5,529
7	2,892	0	2,892	5,610	0	5,610	0	5,134	-87	5,047	0	6,077	6,077	278	0	6,591	6,591
8	2,961	0	2,961	5,095	0	5,095	0	4,050	4,486	8,536	0	0	0	262	0	5,966	5,966
9	2,155	0	2,155	1,959	0	1,959	0	0	0	0	0	11,362	11,362	226	0	6,053	6,053
10	3,065	0	3,065	1,240	0	1,240	0	0	0	0	0	0	0	217	0	8,589	8,589
11	4,215	0	4,215	3,334	0	3,334	0	5,185	-135	5,050	0	0	0	230	529	4,780	5,309
12	6,471	0	6,471	6,880	0	6,880	0	5,150	77	5,227	0	0	0	265	525	4,711	5,236
13	10,436	0	10,436	7,088	0	7,088	0	5,160	2,428	7,588	0	0	0	246	527	4,900	5,427
14	9,277	0	9,277	7,082	0	7,082	0	6,451	4,032	10,483	0	0	0	266	528	5,090	5,618
15	9,929	0	9,929	7,099	0	7,099	0	6,782	5,332	12,114	0	0	0	245	535	5,046	5,581
16	9,601	0	9,601	7,138	0	7,138	0	6,010	6,309	12,319	0	0	0	254	538	4,982	5,520
17	10,319	0	10,319	7,141	0	7,141	0	9,222	6,724	15,946	0	0	0	266	529	6,555	7,084
18	9,115	0	9,115	7,148	0	7,148	0	6,367	3,569	9,936	0	0	0	391	510	5,509	6,019
19	7,204	0	7,204	7,116	0	7,116	0	6,316	-28	6,288	0	0	0	473	516	5,527	6,043
20	8,689	0	8,689	6,464	0	6,464	0	6,707	1,076	7,783	0	0	0	442	726	6,268	6,994
21	6,329	0	6,329	6,885	0	6,885	0	6,674	4,093	10,767	0	0	0	466	710	6,718	7,428
22	5,674	0	5,674	7,217	0	7,217	0	5,991	604	6,595	0	0	0	456	1,151	5,575	6,726
23	5,031	0	5,031	7,100	0	7,100	0	5,553	6	5,559	0	3,845	3,845	443	1,167	7,018	8,185
24	5,031	0	5,031	7,103	0	7,103	0	4,701	59	4,760	0	0	0	448	1,240	9,209	10,449
25	4,352	0	4,352	6,945	0	6,945	0	6,763	-127	6,636	0	7,105	7,105	461	1,164	5,269	6,433
26	4,418	0	4,418	6,776	0	6,776	0	6,744	-92	6,652	0	2,693	2,693	486	1,158	5,329	6,487
27	3,606	0	3,606	6,802	0	6,802	0	6,734	-84	6,650	0	0	0	461	1,193	6,079	7,272
28	3,927	0	3,927	6,678	0	6,678	0	6,309	1,016	7,325	0	1,144	1,144	476	1,384	6,530	7,914
29	3,922	0	3,922	6,625	0	6,625	0	5,087	-74	5,013	0	1,428	1,428	468	1,375	4,210	5,585
30	3,912	0	3,912	6,751	0	6,751	0	4,323	-27	4,296	0	1,005	1,005	841	1,406	5,593	6,999

AQUEDUCT CHECK 12	O'NEILL PUMPING		O'NEILL GENERATION		SAN LUIS PUMPING		SAN LUIS GENERATION		PACHECO PUMPING	DOS AMIGOS	
TOTAL	171,310	TOTAL 169,424	TOTAL 4,240	TOTAL 207,159	TOTAL 56,693	TOTAL 11,915	TOTAL 198,257				
FEDERAL	12,303	FEDERAL 169,424		FEDERAL 168,118	FEDERAL 0	FEDERAL 17,411					
STATE	159,007	STATE 0		STATE 39,041	STATE 56,693	STATE 180,846					
						XVC 0					

COMMENTS: ALL VALUES IN ACRE-FEET

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

Table 20

NOVEMBER 2002

FEDERAL-STATE OPERATIONS

RUN DATE: December 19, 2002

DAY	TRACY PUMPING			CLIFT COURT TOTAL	DELTA PUMPING PLANT			FED BANKS XVC	STATE		AQEDUCT STATE	CHECK 21		DMC-POOL DEMANDS
	FED	STATE	TOTAL		STATE	FED	TOTAL		AMIGOS XVC	BETHANY TOTAL		FED	TOTAL	
1	4,177	0	4,177	7,917	3,673	4,101	7,774	0	0	14	4,829	0	4,829	2,485
2	8,662	0	8,662	2,964	2,794	0	2,794	0	0	20	5,613	0	5,613	3,819
3	8,439	0	8,439	3,958	3,830	0	3,830	0	0	20	6,788	0	6,788	3,025
4	4,117	0	4,117	6,931	2,724	4,101	6,825	0	0	20	5,383	0	5,383	2,584
5	3,159	0	3,159	6,936	2,641	4,101	6,742	0	0	0	6,017	0	6,017	2,552
6	4,695	0	4,695	2,970	3,164	0	3,164	0	0	0	5,716	0	5,716	2,876
7	8,376	0	8,376	2,957	3,172	0	3,172	0	0	0	6,065	0	6,065	2,766
8	5,698	0	5,698	2,960	3,154	0	3,154	0	0	0	4,868	0	4,868	603
9	2,668	0	2,668	2,959	3,002	0	3,002	0	0	0	7,134	0	7,134	709
10	2,095	0	2,095	2,957	3,107	0	3,107	0	0	0	7,585	0	7,585	855
11	6,226	0	6,226	5,945	5,537	0	5,537	0	0	0	4,860	0	4,860	2,892
12	8,599	0	8,599	7,918	7,552	0	7,552	0	0	0	4,877	0	4,877	1,719
13	8,423	0	8,423	9,904	9,861	0	9,861	0	0	0	4,714	0	4,714	1,335
14	8,476	0	8,476	10,902	10,687	0	10,687	0	0	0	5,882	0	5,882	1,394
15	8,442	0	8,442	11,349	11,435	0	11,435	0	0	0	3,813	0	3,813	1,343
16	8,435	0	8,435	11,335	10,710	0	10,710	0	0	0	6,309	0	6,309	1,297
17	8,472	0	8,472	10,892	11,194	0	11,194	0	0	0	6,201	0	6,201	1,331
18	8,467	0	8,467	9,715	9,500	0	9,500	0	0	0	5,695	0	5,695	1,319
19	7,963	0	7,963	7,930	7,994	0	7,994	0	0	0	6,147	0	6,147	847
20	8,087	0	8,087	9,902	8,804	0	8,804	0	0	0	5,873	0	5,873	1,623
21	8,825	0	8,825	6,936	7,000	0	7,000	0	0	0	5,801	0	5,801	1,940
22	8,404	0	8,404	5,933	5,782	0	5,782	0	0	0	6,422	0	6,422	1,187
23	8,403	0	8,403	3,956	5,830	0	5,830	0	0	0	6,685	0	6,685	1,303
24	8,331	0	8,331	4,940	5,155	0	5,155	0	0	0	8,989	0	8,989	1,228
25	8,386	0	8,386	4,955	4,933	0	4,933	0	0	0	5,900	0	5,900	1,441
26	8,430	0	8,430	4,558	4,451	0	4,451	0	0	0	5,244	0	5,244	1,654
27	8,341	0	8,341	4,147	4,276	0	4,276	0	0	0	5,073	0	5,073	1,539
28	8,341	0	8,341	4,158	4,266	0	4,266	0	0	0	6,910	0	6,910	1,663
29	8,427	0	8,427	3,952	4,274	0	4,274	0	0	0	4,990	0	4,990	1,802
30	8,488	0	8,488	3,965	4,266	0	4,266	0	0	0	5,576	0	5,576	1,737
TOTALS	218,052	0	218,052	186,801	174,768	12,303	187,071	0	0	74	175,959	0	175,959	52,868

COMMENTS: ALL VALUES IN ACRE-FEET

- TOTAL TRACY: 11/01/02 - Decrease in pumping for Tracy Fish Facility repairs.
- TOTAL TRACY: 11/04/02 - Decrease in pumping for Tracy Fish Facility repairs.
- TOTAL TRACY: 11/05/02 - Decrease in pumping for Tracy Fish Facility repairs.
- TOTAL TRACY: 11/06/02 - Decrease in pumping for Tracy Fish Facility repairs.
- TOTAL TRACY: 11/08/02 - Decrease in pumping due to degrading Water Quality in the Delta.
- TOTAL TRACY: 11/09/02 - Decrease in pumping due to degrading Water Quality in the Delta.
- TOTAL TRACY: 11/10/02 - Decrease in pumping due to degrading Water Quality in the Delta.
- TOTAL TRACY: 11/11/02 - Decrease in pumping due to degrading Water Quality in the Delta.
- TOTAL TRACY: 11/19/02 - Decrease in pumping due to 2 units forced out.
- TOTAL TRACY: 11/20/02 - Decrease in pumping due to 2 units forced out.
- FED BANKS: 11/01/02 - 4,101 af for CVP use due to decrease at Tracy for fish facility repairs.
- FED BANKS: 11/04/02 - 4,101 af for CVP use due to decrease at Tracy for fish facility repairs.
- FED BANKS: 11/05/02 - 4,101 af for CVP use due to decrease at Tracy for fish facility repairs.

Table 21

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

**Central Valley Project - California
2002**

Monthly Diversions in AF

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
CANALS													
Contra Costa	13049	9404	9967	14486	6768	24424	20276	5951	4683	4259	4197		117464
Delta-Mendota	254400	199820	256707	127398	52580	150595	267309	266195	254147	250896	218052		2298099
Actual Fed Dos Amigos	40075	84854	72021	88937	110301	180906	198922	113099	37304	45702	NA		972121
Madera	0	0	0	3783	27261	11145	63589	42905	12647	0	0		161330
Friant-Kern	11328	30796	29060	48191	87351	167312	169986	122791	67017	47465	5472		786769
Corning	0	0	422	1745	2588	3632	3917	3578	2900	1827	315		20924
Folsom-South	1553	1553	1805	2289	2307	36181	2656	2594	2626	2684	2442		58690
Sly Park - Camino Conduit	1097	908	774	1359	2204	2856	3685	3858	3598	2602	1386		24327
Tehama-Colusa	0	1636	13446	19095	36871	59013	55502	37425	18078	10868	1283		253217
CACHUMA PROJECT													
Tecolote Tunnel	1872	2225	2761	2875	3681	3397	3685	3597	2827	2467	2164		31551
KLAMATH PROJECT													
"A" Canal Upper Klamath	0	0	NA	28420	27150	50840	55800	52190	17470	11860	0		243730
Klamath Drainage District	25120	7580	NA	11250	10002	11680	14700	15130	8820	7560	13220		125062
Clear Lake Reservoir	0	0	NA	140	5730	7340	21110	9470	6300	0	0		50090
Gerber Reservoir	0	0	NA	800	6400	8060	9180	8170	6990	0	0		39600
Klamath River to Lost River	0	0	NA	6300	5000	21900	10450	3790	0	0	0		47440
ORLAND PROJECT													
Stony Creek	0	0	2432	15731	14641	18250	20608	18240	14529	9489	333		114253
South Canal	0	0	1682	10122	9526	12121	13892	12298	9388	6278	206		75513
North Canal	0	0	750	5609	5115	6129	6716	5942	5141	3211	127		38740
SOLANO PROJECT													
Putah South Canal	3319	2906	3669	17629	28007	36181	37450	31387	23078	11879	2571		198076

Table 22

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

Friant-Kern Canal

Monthly Deliveries in AF

Water User	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Alpaugh ID	0	0	0	0	0	0	0	0	0	0	0	0	0
Arvin-Edison WSD	2900	3616	133	2414	9625	3720	2546	1289	7523	6856	4374		44996
Atwell Island WD	0	0	0	0	0	0	0	0	0	0	0		0
Delano-Earlimart ID	81	2459	8577	11882	16712	25850	26201	17597	10110	6672	1822		127963
Exeter ID	22	34	53	701	971	1845	2674	2742	2146	1284	198		12670
City of Fresno	0	0	14	45	1652	24021	17203	17065	595	101	0		60696
County of Fresno SA #34	5	3	13	25	56	74	101	93	54	38	12		474
Fresno ID	11	131	0	0	0	200	0	5800	0	0	0		6142
Garfield WD	0	0	7	351	375	578	542	421	322	289	42		2927
Hills Valley ID	22	0	14	317	520	779	973	852	755	502	99		4833
International WD	0	108	0	116	162	212	289	261	208	176	0		1532
Ivanhoe ID	0	0	0	95	450	930	1406	1386	2229	1652	184		8332
Kaweah Delta WCD	0	0	0	0	0	0	0	0	0	0	0		0
Kern County Water Agency	0	0	0	0	0	0	0	0	0	0	0		0
Kern-Tulare WD	162	355	1330	2534	3864	4923	3744	3461	3380	2673	937		27363
Lewis Creek WD	0	0	0	0	0	12	27	41	24	16	0		120
Lindmore ID	0	0	227	1450	3929	6196	8303	8162	5795	3395	459		37916
City of Lindsay	122	102	142	193	259	268	323	313	264	198	47		2231
Lindsay-Strathmore ID	0		373	2525	542	3508	4254	4103	3310	2305	442		21362
Lower Tule River ID	824	396	0	0	13499	23213	26538	15405	0	0	0		79875
North-Kern WSD	0	0	0	0	0	0	0	0	0	0	0		0
City of Orange Cove	87	88	104	108	153	183	201	189	178	138	93		1522
Orange Cove ID	298	38	112	1811	3321	4758	6065	6027	4437	3047	396		30310
Pixley ID	0	0	0	0	0	5151	8006	0	0	0	0		13157
Porterville ID	0	0	670	1000	2068	2702	3338	2492	935	455	0		13660
Rag Gulch WD	9	196	431	1013	1478	2195	1362	900	1364	674	171		9793
Rosedale Rio Bravo WSD	0	0	0	0	0	0	0	0	0	0	0		0
Saucelito ID	11	259	1883	2143	2649	4379	5221	4459	2640	1879	1211		26734
Semitropic WSD	0	0	0	0	0	0	0	0	573	0	0		573
Shafter Wasco ID	1465	6869	2969	4791	5344	8286	8667	5687	3387	2821	639		50925
Southern San Joaquin MUD	401	6254	7790	10291	12151	17940	19294	13285	8643	6274	1193		103516
Smallwood Vineyards	0	0	0	84	98	93	127	68	0	0	0		470
Stone Corral ID	70	6	68	823	977	1373	1835	1626	1115	649	55		8597
Strathmore PUD	30	24	29	41	51	67	75	72	57	45	38		529
Styro Tek, Inc.	0	1	1	1	2	2	0	0	0	0	0		7
Tea Pot Dome WD	0	48	0	358	765	1078	1233	1178	882	671	100		6313
Terra Bella ID	153	76	83	1414	2346	3175	3901	3773	2946	1975	340		20182
Tri-Valley WD	0	0	0	0	55	222	319	420	280	208	15		1519
Tulare ID	0	5045	0	0	0	17598	12357	5026	573	1570	0		42169
Total	6673	26108	25023	46526	84074	165531	167125	124193	64725	46563	12867	0	769408

* 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
2002**

Monthly Deliveries in AF

Water Users	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
MADERA CANAL													
Chowchilla WD	0	0	0	0	0	16584	29774	21755	0	0	0		68113
Madera ID	0	0	0	1761	25557	25111	32083	13718	13452	0	0		111682
Soquel	0	0	0	0	0	0	0	8549	0	0	0		8549
Total	0	0	0	1761	25557	41695	61857	44022	13452	0	0	0	188344
MILLERTON LAKE													
County of Madera	2	2	3	4	5	6	8	9	7	6	3		55
Fresno County # 18	5	5	7	12	18	19	6	24	16	15	8		135
Gravelly Ford WD	0	0	584	991	1834	878	1498	1140	1151	741	0		8817
Total	7	7	594	1007	1857	903	1512	1173	1174	762	11	0	9007

* 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
2002**

Monthly Deliveries in AF

Water User	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Fresno Slough WD	0	435	148	172	318	447	562	307	12	107	24		2532
Hughes, Melvin	0	26	0	0	0	33	25	12	0	0	0		96
James ID	0	1656	424	620	1182	7468	10447	9053	2231	731	141		33953
Laguna WD	0	0	0	0	0	0	0	0	0	0	0		0
Dudley & Indart	115	603	275	357	440	524	439	446	11	0	0		3210
Mid-Valley WD (no contract)	0	0	0	0	0	0	0	0	0	0	0		0
Reclamation 1606	0	0	74	50	99	111	66	55	0	52	0		507
Terra Linda (Goodman)	83	1093	631	502	752	1554	1823	1123	422	360	179		8522
Tranquility ID	0	4527	1474	1108	1500	7585	6676	3837	251	125	46		27129
Wilson, JW (no contract)	0	78	118	0	0	176	216	205	0	0	0		793
Total	198	8418	3144	2809	4291	17898	20254	15038	2927	1375	390	0	76742
Exchange Contractors													
Central California ID	394	24818	33909	27895	45403	71333	72020	64517	26035	22769	6707		395800
Columbia Canal Co	0	3604	5613	5909	6185	10150	11078	9261	3886	2045	885		58616
Firebaugh Canal Co	952	2725	1548	3389	3700	4713	3950	3009	1533	843	700		27062
San Luis Canal Co	0	4287	13013	10968	12595	29580	31330	24816	8975	1978	0		137542
Total	1346	35434	54083	48161	67883	115776	118378	101603	40429	27635	8292	0	619020
Refuges													
Grassland WD - 76.05L CCID #1-07-20-W1754	4836	10892	0	4938	0	6321	19038	9835	27259	100031	11702		194852
US F&WS - Kesterson #00-WC-20-1647	0	11952	411	2320	3305	0	0	847	0	8590	5978		33403
State F&WS - DWR #00-WC-20-1647 Kern National Wildlife	808	690	0	0	89	280	60	1096	3865	5163	4656		16707
State F&G - Water Fowl Dist #1-07-20-W19756	1013	3979	597	450	1044	1686	1343	1109	6140	10728	5221		33310
DFG Traction Ranch - Mendota Pool #14-06-200-7859Z	234	712	269	340	525	949	831	678	514	1275	780		7107
Total	6891	28225	1277	8048	4963	9236	21272	13565	37778	125787	28337	0	285379

Table 25

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

Monthly Deliveries in AF

Delta-Mendota Canal
2002

Water User	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Banta Carbona ID	0	0	699	58	66	530	1248	66	0	0	4		2671
Broadview WD	428	1829	919	639	961	3016	2765	1375	190	0	0		12122
CCID (Abv CK 13)	61	641	1389	1568	2273	2499	2349	2470	1412	740	40		15442
CCID (Blw CK 13)	309	1100	7885	6806	22443	17579	19402	19393	75	0	2491		97483
Centinella WD	0	0	0	0	0	0	0	0	0	0	0		0
China Island (76.05)	0	0	513	400	0	1086	650	369	0	0			3018
Del Puerto WD	56	1910	3106	9954	9960	15287	15864	11340	6135	5262	747		79621
DWR Intertie @MP7.70-R	0	0	0	0	0	0	0	0	0	0	0		0
Eagle Field WD	0	548	0	1	164	220	338	161	1	1	1		1435
Firebaugh Canal	192	2050	1701	1354	1679	8303	10320	7182	169	0	392		33342
Frietas Unit (76.05L)	0	0	720	845	355	382	254	0	0	50	0		2606
Mercy Springs WD	1	123	63	88	53	212	246	220	43	344	31		1424
Oro Loma WD	0	113	30	0	39	131	178	119	0	0	0		610
Panoche WD - Ag	51	341	344	372	636	1311	1741	1040	166	59	2		6063
Panoche WD - M&I	2	3	2	3	2	3	2	3	2	3	2		27
Patterson WD	0	0	55	313	911	874	1296	1085	805	448	4		5791
Plainview WD	0	13	30	482	474	632	654	643	374	271	27		3600
Salt Slough Unit (76.05L)	0	0	515	900	946	1154	977	783	0	0	0		5275
San Luis WD - Ag	355	1098	538	850	1022	2010	2244	1335	381	318	128		10279
San Luis WD - M&I	1	1	5	19	23	24	11	20	23	10	1		138
Tracy, City of	0	0	407	562	775	877	1042	1065	850	914	727		7219
West Side ID	6	0	0	0	112	270	430	252	0	0	0		1070
Widren	0	0	0	0	0	0	0	0	0	0	0		0
W. Stanislaus ID	0	984	2366	3913	3856	7458	9733	4428	2010	1588	542		36878
F&G - Los Banos Ref. 76.05L	0	0	1090	301	826	1064	969	1000	0	0	0		5250
Volta Wildlife Mgmt Area	0	113	0	521	50	466	450	841	1639	1909	343		6332
Grasslands -76.05L	4820	7408	0	1508	0	2906	6362	3981	15947	11961	0		54893
Grasslands - Volta	402	427	0	1848	1163	2107	937	2024	6314	13128	1412		29762
F&S (Volta) Santa Fee Kest.	0	0	0	0	661	178	182	175	745	1282	677		3900
F&S - Kesterson 76.05L	0	0	0	504	0	0	0	0	0	0	0		504
Total DMC Deliveries	6684	18702	22377	33809	49450	70579	80644	61370	37281	38288	7571	0	426755
Oneill Net Pumped	225493	93737	153351	22779	(92264)	(68180)	13457	65449	114244	120428	165184		813678
DMC plus Oneill	232177	112439	175728	56588	(42814)	2399	94101	126819	151525	158716	172755	0	#####

* 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
2002**

Monthly Deliveries in AF

Water User	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
SAN LUIS CANAL													
City of Avenal	212	141	174	209	256	256	278	277	218	270	85		2376
Broadview WD	1	1	0	2	2	3	4	3	4	4	2		26
City of Coalinga	280	241	234	472	434	586	591	638	460	748	384		5068
City of Dos Palos	66	65	84	118	149	171	185	166	119	146	79		1348
City of Huron	43	46	47	124	109	122	131	121	83	106	71		1003
Pacheco WD	1	1	50	326	2	1274	2750	1276	443	90	10		6223
Pacheco CCID Non-project (Hamburg)	327	707	944	719	2003	923	0	0	0	0	0		5623
Panoche WD	2602	4828	3684	3144	5159	9967	13562	7286	927	825	1196		53180
San Luis WD	1066	5700	5801	5111	7152	11711	14240	7326	2000	2863	1342		64312
Westlands WD (Federal)	35134	74079	63941	75647	103758	167006	167011	104479	29857	40036	24879		885827
Phase I (Non-chargeable)	0	8	0	0	0	0	0	0	3	0	22		33
Fish & Game (Lateral 4)	1	1	1	1	1	1	1	1	1	1	1		11
Fish & Game (Lateral 6)	51	0	0	0	0	0	0	0	0	0	0		51
Total	39784	85818	74960	85873	119025	192020	198753	121573	34115	45089	27986	0	1024996
O'NEILL FOREBAY DELIVERIES													
Oneill Forebay Wildlife	76	63	84	45	51	74	101	68	76	105	64		807
San Luis WD Ag	117	620	698	689	1233	1682	2112	1349	652	512	174		9838
San Luis M&I	28	22	32	44	53	62	70	69	48	57	30		515
VA Cemetary	2	2	3	7	6	7	10	8	6	9	4		64
Total	223	707	817	785	1343	1825	2293	1494	782	683	272	0	11224
CROSS VALLEY CANAL													
Arvin Edison WSD	0	0	0	0	0	0	8317	0	2719	4482	0		15518
Kern-Tulare	0	0	0	0	0	0	0	28582	10864	529	0		39975
Pixley ID	0	0	0	0	0	0	13763	26669	0	0	0		40432
Rag Gulch	0	0	0	0	0	0	0	0	0	0	0		0
Total	0	0	0	0	0	0	22080	55251	13583	5011	0	0	95925
SAN FELIPE DIVISION													
Santa Clara	8720	9306	9620	12225	13875	10587	11585	11903	10860	15097	10957		124735
San Benito	323	1360	285	1650	2401	3733	3742	3368	3948	2542	958		24310
Total	9043	10666	9905	13875	16276	14320	15327	15271	14808	17639	11915	0	149045

* 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
2002**

Monthly Deliveries in AF

Water Users	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Colusa County WD	77	239	3054	6137	7230	10897	10895	7900	5255	3778	552		56014
Cortina WD	0	0	93	83	102	153	164	93	49	85	0		822
Davis WD	0	56	261	208	259	569	293	194	13	0	0		1853
Dunnigan WD	7	58	345	1595	2002	2948	3230	2334	1443	392	48		14402
4-M Water District	0	1	113	242	157	566	505	412	219	120	0		2335
GCID	0	0	2547	3237	3895	4700	4521	2988	1205	879	194		24166
Glenn Valley WD	0	13	39	73	207	111	110	171	35	0	0		759
Glide WD	0	0	161	1429	3265	3514	3234	2604	471	234	39		14951
Holthouse WD	0	0	53	99	287	329	350	254	162	88	18		1640
Kanawha WD	0	9	1438	4887	4157	7515	7068	4424	1745	304	76		31623
Kirkwood WD	0	0	0	85	119	209	219	235	123	46	0		1036
La Grande WD	0	0	22	1011	813	1436	1129	789	183	102	21		5506
Myers-Marsh MWC	0	0	0	20	36	20	45	0	0	0	0		121
Orland-Artois WD	45	120	1859	6375	9707	13843	13968	9458	6090	2694	256		64415
Westside WD	2	296	2187	4210	6693	9826	6705	4299	1811	939	34		37002
Total	131	792	12172	29691	38929	56636	52436	36155	18804	9661	1238	0	256645

Table 28

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

Monthly Deliveries in AF

Water Users	Sacramento River												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
A&F Boeger Corp & Thunder Farms	0	0	0	0	362	559	588	419	0	0	0	0	1928
Anderson Cottonwood ID	0	0	0	6829	18955	19427	21483	20813	18382	7448	0	0	113337
Andreotti, Arthur, et al	0	0	0	321	483	622	648	559	80	0	0	0	2713
Baber, Jack, et	0	0	0	0	105	252	492	118	0	0	0	0	967
A&R Farms (Odysseus)	0	0	0	1	15	45	92	24	4	0	0	0	181
Cannel, Fred	0	0	0	154	320	181	33	38	170	0	0	0	896
Carter, Jane	0	0	0	0	0	227	295	185	0	124	0	0	831
Colusa Prop. Inc	0	0	0	0	0	354	143	37	0	70	0	0	604
Conaway Conservancy Group	0	0	0	1304	9545	10043	6675	5401	700	4493	0	0	38161
Davis, Olive P, et al	0	0	0	3559	5144	6816	7439	4512	83	0	0	0	27553
Deseret Farms of Calif	0	0	0	58	168	258	222	83	0	0	0	0	789
Dommer, Elizabeth	0	0	0	0	2	2	2	0	2	0	0	0	8
Forry, David G, et al	0	0	0	133	196	358	386	322	120	0	0	0	1515
Forster, Rosemary	0	0	0	45	624	759	831	638	534	0	0	0	3431
Furlan Joint Venture (Area #1)	0	0	0	32	121	78	93	2	0	0	0	0	326
Furlan Joint Venture (Area #2)	0	0	0	0	0	0	0	0	0	0	0	0	0
Glenn-Colusa ID	0	0	0	103436	121302	154963	147354	112775	29529	61562	0	0	730921
Griffin, J, et al	0	0	0	142	498	623	681	303	92	0	0	0	2339
Henle Family Limited Partnership	0	0	0	0	0	56	29	0	0	0	0	0	85
Hershey Land Co	0	0	0	0	0	0	0	0	0	0	0	0	0
Hiatt, Glenn	0	0	0	0	252	220	248	81	0	0	0	0	801
Hollins, Mariette B	0	0	0	65	131	235	263	179	18	10	0	0	901
Howald Farms	0	0	0	124	239	311	331	270	2	0	0	0	1277
King, Barbara	0	0	0	0	3	2	2	0	0	0	0	0	7
Knaggs Walnut Ranches Co, L.P.	0	0	0	0	87	68	0	0	0	0	0	0	155
Lockett, William P.	0	0	0	0	0	0	0	0	0	0	0	0	0
Loma Cold Storage/J Micheli	0	0	0	441	1515	1606	180	232	0	0	0	0	3974
M&T Inc.	0	0	0	264	2405	1839	2028	2037	99	1437	0	0	10109
MCM Properties, Inc	0	0	0	0	59	79	78	22	0	0	0	0	238
Maxwell ID	0	0	0	1146	2410	1706	0	0	0	2648	0	0	7910
Meridan Farms WC	0	0	0	2224	5807	6618	7142	5490	629	299	0	0	28209
Natomas Central MWC	0	0	0	5104	19869	21247	21815	13026	6551	416	0	0	88028
O'Brien, Janice	0	0	0	229	4	111	181	130	3	0	0	0	658
Oji Bros. Farms Inc	0	0	0	52	576	867	581	332	0	0	0	0	2408
Oji, Mitsue Family PTN	0	0	0	134	689	1207	381	409	0	0	0	0	2820
Pelger Mutual WC	0	0	0	541	1444	1559	1195	709	0	825	0	0	6273
Pleasant Grove-Verona MWC	0	0	0	799	3576	4143	4278	3418	163	538	0	0	16915
Princeton, -Codora-Glenn ID	0	0	0	7678	10605	12648	13747	10136	2831	5084	0	0	62729
Provident Irrigation District	0	0	0	8233	6130	12635	11465	3315	38	3554	0	0	45370
Reclamation Dist #108	0	0	0	14747	35339	40296	38707	20626	3721	9883	0	0	163319
Reclamation Dist #1004	0	0	0	5502	11856	14845	15104	9213	3555	13930	0	0	74005
Reynen, John, et al	0	0	0	378	1398	1643	1627	866	1	261	0	0	6174
River Garden Farms	0	0	0	146	3649	6097	5684	4180	1382	555	0	0	21693
Roberts Ditch Irrigation Co	0	0	0	408	558	783	981	737	128	54	0	0	3649
Sartain Mutual WC	0	0	0	38	446	354	404	227	0	196	0	0	1665
Siddiqui, J & A & Siddiqui Family Plan	0	0	0	23	71	12	58	37	33	49	0	0	283
Spence, Ruth Ann	0	0	0	0	0	0	0	0	0	0	0	0	0
Sutter Mutual WC	0	0	0	15717	36609	40489	44184	35167	8039	1290	0	0	181495
Swinford Tract Irrigation Co	0	0	0	0	29	27	6	22	0	0	0	0	84
Tarke, James, et al	0	0	0	0	36	43	37	32	5	0	0	0	153
Tisdale Irrigation & Drain	0	0	0	502	1497	1522	1950	1620	364	0	0	0	7455
Wallace Construction, Inc.	0	0	0	143	0	545	217	0	0	0	0	0	905
Wells, Joyce M	0	0	0	70	141	311	349	238	23	0	0	0	1132
Wilson Ranch Partnership	0	0	0	0	0	0	0	0	0	0	0	0	0
Windswept Land & Livestock Co.	0	0	0	214	505	374	194	4	0	0	0	0	1291
Total	0	0	0	180936	305775	370065	360903	258984	77281	114726	0	0	1668670

* 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
2002**

Mean monthly flow in cfs

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Sacramento River												
Shasta computed inflow	14182	9254	9551	7866	5759	3700	3475	3431	3151	3048	3856	
At Keswick	6960	4148	5292	5526	9346	12756	14603	10909	7690	6959	5677	
At Bend Bridge	15587	8270	8142	7098	10050	12824	14353	10963	7851	7360	6737	
At Vina Bridge	19635	8871	8917	7130	9294	11741	13463	9839	6811	6525	6335	
At Ord Ferry	22050	7441	7746	3278	5637	7332	9060	6094	3727	2710	2696	
At Colusa	20772	10171	10148	6353	7493	8520	9828	8125	6555	5220	5386	
Below Wilkins Slough	18180	10576	10620	6094	6679	7268	8691	7568	6802	5402	5752	
At Verona	34138	14345	15958	9478	9145	10217	14700	14141	10928	7380	8925	
Sacramento at "I" Street	36687	15849	18823	13036	11394	12326	17439	15661	12209	8828	10481	
Miscellaneous Stations												
Folsom computed inflow	3901	3822	4936	4573	3998	2217	1245	1297	1295	958	1609	
American R at Nimbus Dam	1460	1503	2897	3640	2607	2665	3306	1944	1502	1508	1571	
Kings River at Pine Flat	95	602	1017	1618	3176	6039	5660	2036	268	148	106	
San Joaquin River												
At Friant Dam	93	95	124	159	176	189	231	208	208	175	124	
Near Vernalis	2920	2191	2411	2823	3032	1753	1597	1461	1468	1902	1975	
Putah Creek												
Berryessa computed inflow	1874	358	348	99	37	0	0	0	17	0	68	
Putah Creek - Lake Solano	45	16	34	47	43	43	43	34	20	20	40	
Stanislaus River												
New Melones computed inflow	1062	779	1440	1804	1639	935	783	743	725	699	629	
At Tulloch Dam	319	499	902	2184	2251	1965	2077	1804	1415	624	316	
At Orange Blossom	247	319	338	712	602	317	329	185	164	224	200	

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