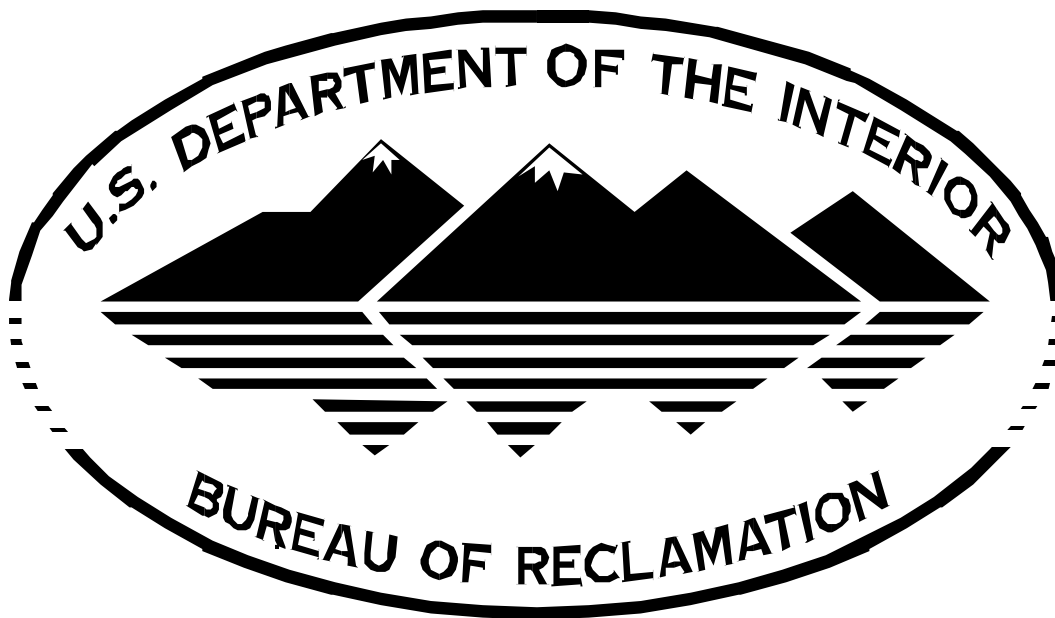


**UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION**

CENTRAL VALLEY OPERATIONS OFFICE

REPORT OF OPERATIONS



October 2002

Contact Person:

Valerie Ungvari, Hydrologic Technician

3310 El Camino Avenue, Suite 300

Sacramento, CA 95821

Telephone: (916) 979-2448

E-mail: vungvari@mp.usbr.gov

INDEX

	<u>Page Number</u>
Summary of October 2002	1

TABLES

	<u>Table Number</u>
Reservoir Storage Summary	1
Power System Generation Summary	2
Shasta Lake Daily Operations	3
Trinity Lake Daily Operations	4
Whiskeytown Lake Daily Operations	5
Lewiston Lake Daily Operations	6
Spring Creek Debris Dam Daily Operations	7
Keswick Reservoir Daily Operations	8
Red Bluff Diversion Reservoir Daily Operations	9
Black Butte Reservoir Daily Operations	10
Folsom Lake Daily Operations	11
Lake Natoma Daily Operations	12
New Melones Daily Operations	13
Goodwin Reservoir Daily Operations	14
Millerton Lake Daily Operations	15
State-Federal Sacramento-San Joaquin Delta Outflow	16
Consolidated State-Federal San Luis Reservoir Daily Operations	17
Consolidated State-Federal O'Neill Forebay Daily Operations ...	18
Federal-State San Luis Operations	19
Federal-State Operations	20
Monthly Diversions in Acre-Feet, 2002	21
Monthly Deliveries - Friant-Kern Canal, 2002	22
Monthly Deliveries - Madera Canal and Millerton Lake, 2002	23
Monthly Deliveries - San Joaquin River and Mendota Pool, 2002 .	24
Monthly Deliveries - Delta-Mendota Canal, 2002	25
Monthly Deliveries - San Luis and Cross Valley Canal, 2002	26
Monthly Deliveries - Tehama-Colusa Canal, 2002	27
Monthly Deliveries - Sacramento River, 2002	28
Streamflow Data - Sacramento-San Joaquin Valleys, 2002	29
Precipitation Summary.....	30

SUMMARY OF OCTOBER 2002 OPERATIONS

Sacramento had an average monthly temperature of 65.0 °F which was 1.4 °F below normal. The average temperature at Shasta Dam was 66.5 °F which was 1.4 °F above normal and Huntington Lake was 3.7 °F below normal with an average temperature of 44.3 °F.

Trinity System: Storage in Trinity Lake decreased 94,800 acre-feet this month to 1,405,700 acre-feet, which is 57 percent of capacity and 99 percent of the 15 year average for this date. The total inflow for the month was 3,658 acre-feet. The Trinity River release ranged between 300 to 450 ft³/s. Whiskeytown Lake was operated between elevations 1201.99 feet and 1209.20 feet with an end-of-month storage of 216,100 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 70,442 acre-feet.

Shasta-Keswick: Storage in Shasta Lake decreased 144,100 acre-feet for an end-of-month storage of 2,414,100 acre-feet, which is 53 percent of capacity and 100 percent of the 15 year average. The total inflow for the month was 187,447 acre-feet. The release to the Sacramento River at Keswick ranged between 5,900 and 7,500 ft³/s for the month.

Folsom-Nimbus: Storage in Folsom Lake decreased 53,400 acre-feet and had an end-of-month storage of 456,800 acre-feet, which is 47 percent of capacity and 112 percent of the 15 year average for this date. The total inflow for the month was 58,886 acre-feet. The release to the American River at Nimbus was 1,500 ft³/s during the month.

New Melones: Storage in New Melones increased 9,400 acre-feet for an end-of-month storage of 1,287,900 acre-feet or 53 percent of capacity and 110 percent of the 15 year average. The release to the Stanislaus River at Goodwin Dam ranged between 125 to 700 ft³/s for the month. The total inflow for the month was 42,990 acre-feet.

Delta-San Luis: Federal storage in San Luis Reservoir on October 31, 2002, was 412,000 acre-feet compared to the storage a year ago of 407,000 acre-feet.

Friant: Storage in Millerton Lake decreased 2,560 acre-feet to 218,600 acre-feet. The total monthly inflow was 56,744 acre-feet. The release to the San Joaquin River at Friant varied between 146 and 191 ft³/s.

CVP Totals: The total diversions to CVP canals were 317,998 acre-feet. The October 31, 2002, storage in the 18 CVP reservoirs was 5,977,000 acre-feet compared to storage 1 year ago of 5,624,000 acre-feet.

Power: Gross power production for the CVP totaled 293,365,000 kilowatt-hours.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
MID-PACIFIC REGION
MONTHLY RESERVOIR STORAGE SUMMARY IN ACRE-FEET
(PRELIMINARY DATA SUBJECT TO REVISION)

Table 1

WATERSHED	RESERVOIR	TOTAL CAPACITY	10/31/02	10/31/01	WATERSHED	RESERVOIR	TOTAL CAPACITY	10/31/02	10/31/01
KLAMATH	CLEAR LAKE *	526,800	103,570	131,740	AMERICAN	FOLSOM LAKE *CVP	1,010,300	456,770	287,400
	GERBER *	94,300	13,570	18,470		LAKE NATOMA *CVP	9,030	8,210	8,170
	UPR KLAMATH LK *	873,300	152,610	214,340	COSUMNES	JENKINSON LK *CVP	41,000	27,250	27,830
TRINITY	CLAIR ENGLE LK*CVP	2,447,700	1,405,720	1,294,680	MOKELUMNE	CAMANCHE	431,500	250,020	204,650
	LEWISTON LAKE*CVP	14,660	14,020	14,050		PARDEE	210,000	170,230	173,970
	WHISKEYTOWN *CVP	241,100	216,110	205,620	SALT SPRINGS	140,000	68,240	26,010	
MCCLLOUD	MCCLLOUD DIV. RES	35,230	22,230	26,310	CALAVERAS	NEW HOGAN	317,100	124,120	119,220
PIT	IRON CANYON	24,240	13,410	16,740		NEW MELONES*CVP	2,420,000	1,287,850	1,468,050
	LAKE BRITTON	40,620	35,450	37,830		BEARDSLEY	97,800	55,450	32,100
	PIT NO. 6	15,890	14,400	14,130	STANISLAUS	DONNELLS	64,320	10,700	21,370
	PIT NO. 7	34,610	32,850	32,040	TULLOCH	67,000	55,420	55,290	
SACRAMENTO	SHASTA LAKE *CVP	4,552,000	2,414,070	2,167,050	TUOLUMNE	LAKE ELEANOR	26,100	21,130	20,590
	SPRING CREEK *CVP	5,900	800	870		LAKE LLOYD	268,000	204,680	218,540
	KESWICK *CVP	23,800	22,040	19,970		HETCH-HETCHY	360,400	242,470	221,872
	RED BLUFF DIV *CVP	3,920	380	320	NEW DON PEDRO	2,030,000	1,214,790	1,145,310	
FEATHER	OROVILLE	3,538,000	1,280,300	1,432,490	TURLOCK LAKE	49,000	13,240	13,400	
	THERMALITO DIV RES	13,500	11,330	NR	MERCED	EXCHEQUER	1,024,600	286,510	386,730
	THERMALITO FORE.	14,400	94,660	NR		BUCHANAN	150,000	10,090	15,410
	THERMALITO AFTER.	57,000	27,720	18,240	CRANE VALLEY	45,400	21,590	22,540	
LAKE ALMANOR	1,143,000	717,714	609,870	LAKE T.A. EDISON	125,000	47,920	50,980		
STONY CREEK	EAST PARK *	50,900	7,170	29,760	FLORENCE LAKE	64,600	1,000	1,150	
	STONY GORGE *	50,000	18,230	15,930	SAN JOAQUIN	MAMMOTH POOL	122,700	20,050	16,460
	BLACK BUTTE *CVP	143,700	23,480	24,120		HUNTINGTON LAKE	89,800	59,600	71,610
LAKE BERRYESSA *	1,602,300	1,266,250	1,246,030	REDINGER LAKE		35,000	24,080	23,290	
PUTAH CREEK	LAKE SOLANO *	720	640	610	SHAVER LAKE	135,400	108,420	105,170	
					MILLERTON LK *CVP	520,500	218,570	164,690	
YUBA	BULLARDS BAR	930,000	496,270	505,530	FRESNO	HIDDEN	90,000	10,200	7,730
	SO. YUBA SYSTEM	146,000	45,550	36,450		SAN LUIS **CVP	2,040,600	649,730	764,060
NARROWS	70,000	68,030	66,840	O'NEILL FORE.**CVP		56,400	47,390	49,310	
BEAR	ROLLINS	65,990	50,520	34,310	SAN LUIS	L BANOS RES**CVP	34,560	18,690	18,530
LITTLE TRUCKEE	STAMPEDE *	226,620	109,100	156,900		LT PANOCHE **CVP	5,580	680	760
TRUCKEE	BOCA *	41,140	10,900	7,800	OIL CANYON	CONTRA LOMA *CVP	2,100	2,060	920
PROSSER	PROSSER CREEK *	29,840	8,800	8,200	KINGS	WISHON	128,300	68,830	50,240
TRUCKEE	LAKE TAHOE *	732,000	13,300	126,300		PINE FLAT	1,001,500	143,680	286,750
HUMBOLDT	RYE PATCH *	190,000	10,300	13,100	KAWEAH	TERMINUS	143,000	8,850	4,070
					TULE	SUCCESS	82,300	4,260	4,980
CARSON	LAHONTAN *	317,280	72,300	61,700	KERN	ISABELLA	588,100	82,340	99,620
	TWIN LAKES	21,600	18,140	16,170	CUYAMA	TWITCHHELL *	240,100	5,160	5,160
	FRENCH MEADOWS	136,400	173,940	42,820	SANTA YNEZ	LAKE CACHUMA *	190,500	125,060	170,390
AMERICAN	HELL HOLE	207,590	124,950	35,100	COYOTE	LAKE CASITAS *	254,000	190,056	224,520
	LOON LAKE	76,500	59,440	46,440	TOTAL - 85 RESERVOIRS	33,790,040	15,728,610	15,459,312	
	ICE HOUSE	46,000	31,970	27,780	TOTAL - 36 RESERVOIRS	18,992,650	8,920,836	8,947,350	
	UNION VALLEY	277,300	146,880	99,020	TOTAL - 18 RESERVOIRS	13,572,850	6,813,820	6,516,400	
SLAB CREEK	16,600	14,110	14,800						

** - 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			1,686,203
Net	128954	72134	112155	119468	215616	270048	304743	202465	139794	117290			1,682,667
Keswick													
Gross	31833	18594	23732	23449	42561	54934	64491	49092	33034	30347			372,067
Net	31683	18464	23586	23324	42428	54801	64350	48954	32903	30208			370,701
Trinity													
Gross	546	6291	8344	21635	78785	58117	60993	59135	32929	29711			356,486
Net	481	6143	8181	21496	78642	57992	60868	59018	32832	29639			355,292
JF Carr													
Gross	368	739	1570	19887	19787	55536	69635	69937	34491	36277			308,227
Net	240	598	1436	19832	19734	55454	69539	69850	34435	36220			307,338
Spring Creek PP													
Gross	33762	11434	8659	2034	21040	53176	67864	67429	29603	40914			335,915
Net	33624	11359	8577	1966	20979	53072	67741	67319	29526	40775			334,938
Folsom													
Gross	22501	21996	48677	62731	46760	46912	57358	32050	23900	22911			385,796
Net	22249	21793	48489	62559	46587	46738	57158	31837	23711	22707			383,828
Nimbus													
Gross	2602	2923	5958	7500	5623	5297	7111	4223	3185	3288			47,710
Net	2584	2902	5936	7480	5603	5277	7092	4214	3156	3267			47,511
New Melones													
Gross	4972	10484	23726	63176	61744	52164	55873	47771	33214	12063			365,187
Net	4864	10386	23618	63054	61617	52053	55754	47656	33112	11978			364,092
O'Neill													
Gross	0	0	0	1147	3037	2448	31	0	0	154			6,817
Net	0	0	0	1108	2934	2375	19	0	0	101			6,537
Fed San Luis													
Out Meter	0	0	1728	23275	0	53476	18928	5990	0	0			103,397
Gross Generation	225,974	144,986	234,868	344,669	495,288	652,423	707,362	538,402	330,468	293,365	0	0	3,967,805
Net Generation	224,679	143,779	233,706	343,562	494,140	651,286	706,192	537,303	329,469	292,185	0	0	3,956,301
Stampede (Gross)	327	529	1,500	2,100	2,176	1,812	843	291	244	1,217			11,039
Stampede (Net)	299	505	1,473	2,076	2,156	1,796	830	281	233	1,201			10,850
<u>Energy in mwh</u>													
Tracy													
Tot Energy	59504	46477	59914	29204	11716	34516	62001	60123	58812	58411			480,678
Fed Off-Pk	28189	21469	28350	13551	5577	16371	29433	28184	29714	27837			228,675
O'Neill													
Tot Energy	13372	5568	9108	3297	0	224	911	3995	6688	7420			50,583
Fed Off-Pk	6419	2652	4324	1501	0	85	416	1810	3456	3680			24,343
San Luis													
Fed Energy	69662	15015	18369	4898	114	63	78	864	36119	33110			178,292
Fed Off-Pk	56537	14970	17559	1203	114	63	63	819	36044	31606			158,978
Dos Amigos													
Fed Energy	4303	12059	11952	11333	13767	25629	24536	19673	3603	0			126,855
Fed Off-Pk	3708	8174	8202	7898	9087	14304	14574	58893	4173	0			129,013
Banks - Fed													
Fed Energy	0	0	0	0	0	0	13018	6444	17080	6094			42,636
Fed Off-Pk	0	0	0	0	0	0	3193	1479	9850	4144			18,666
Total Energy	146,841	79,119	99,343	48,732	25,597	60,432	100,544	91,099	122,302	105,035	0	0	879,044
Total Fed Off-Pk	94,853	47,265	58,435	24,153	14,778	30,823	47,679	91,185	83,237	67,267	0	0	559,675

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

Table 3

OCTOBER 2002

SHASTA LAKE DAILY OPERATIONS

RUN DATE: November 14, 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			
		2,558.2								
1	986.97	2,554.8	-3.4	2,867	4,448	0	0	155	.26	.00
2	986.94	2,554.1	-0.6	3,037	3,256	0	0	89	.15	.00
3	986.96	2,554.6	+0.4	3,263	2,939	0	0	119	.20	.00
4	987.04	2,556.2	+1.6	3,619	2,676	0	0	125	.21	.00
5	986.87	2,552.7	-3.5	3,239	4,855	0	0	125	.21	.00
6	986.73	2,549.9	-2.8	3,297	4,588	0	0	143	.24	.00
7	986.56	2,546.4	-3.5	3,306	4,875	0	0	173	.29	.00
8	986.36	2,542.4	-4.1	2,458	4,329	0	0	178	.30	.00
9	986.05	2,536.1	-6.3	2,697	5,678	0	0	196	.33	.00
10	985.85	2,532.0	-4.0	2,573	4,440	0	0	166	.28	.00
11	985.66	2,528.2	-3.8	3,527	5,252	0	0	201	.34	.00
12	985.46	2,524.2	-4.0	2,916	4,814	0	0	130	.22	.00
13	985.31	2,521.2	-3.0	2,851	4,195	0	0	177	.30	.00
14	985.19	2,518.7	-2.4	2,915	4,014	0	0	118	.20	.00
15	985.12	2,517.3	-1.4	3,325	3,934	0	0	100	.17	.00
16	985.00	2,514.9	-2.4	3,473	4,424	0	0	266	.45	.00
17	984.82	2,511.3	-3.6	2,743	4,517	0	0	41	.07	.00
18	984.66	2,508.1	-3.2	3,016	4,623	0	0	6	.01	.00
19	984.50	2,504.9	-3.2	2,734	4,242	0	0	106	.18	.00
20	984.29	2,500.7	-4.2	3,200	5,224	0	0	94	.16	.00
21	983.81	2,491.1	-9.6	2,965	7,643	0	0	152	.26	.00
22	983.40	2,483.0	-8.2	3,728	7,676	0	0	164	.28	.00
23	983.12	2,477.4	-5.6	3,808	6,610	0	0	6	.01	.00
24	982.78	2,470.7	-6.7	3,783	7,076	0	0	105	.18	.00
25	982.27	2,460.6	-10.1	1,915	7,000	0	0	0	.00	.00
26	981.64	2,448.2	-12.4	1,151	7,397	0	0	17	.03	.00
27	981.25	2,440.5	-7.7	3,473	7,231	0	0	110	.19	.00
28	981.00	2,435.6	-4.9	3,924	6,305	0	0	98	.17	.00
29	980.68	2,429.3	-6.3	3,410	6,485	0	0	81	.14	.00
30	980.26	2,421.1	-8.2	2,614	6,635	0	0	121	.21	.00
31	979.90	2,414.1	-7.0	2,676	6,124	0	0	98	.17	.00
TOTALS			-144.1	94,503	163,505	0	0	3,660	6.21	.00
ACRE-Feet			-144,100	187,447	324,312	0	0	7,260		

COMMENTS:

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

SUMMARY

	RELEASE (ACRE-Feet)			PRECIPITATION	
POWER	324,312	OUTLET	0	THIS MONTH =	.00
SPILL	0	TOTAL	324,312	JULY 1, 2002 TO DATE =	.00

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

Table 4

OCTOBER 2002

TRINITY LAKE DAILY OPERATIONS

RUN DATE: November 14, 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)	
		1,500.1								
1	2,302.61	1,493.3	-6.8	1	3,390	0	0	60	.17	.00
2	2,302.02	1,486.2	-7.1	0	3,498	0	0	67	.19	.00
3	2,301.42	1,479.1	-7.2	-28	3,537	0	0	42	.12	.00
4	2,300.86	1,472.4	-6.7	99	3,426	0	0	35	.10	.00
5	2,300.61	1,469.4	-3.0	119	1,562	0	0	52	.15	.00
6	2,300.42	1,467.2	-2.3	199	1,276	0	0	59	.17	.00
7	2,300.18	1,464.3	-2.8	239	1,615	0	0	59	.17	.00
8	2,299.95	1,461.6	-2.7	117	1,435	0	0	56	.16	.00
9	2,299.69	1,458.5	-3.1	119	1,606	0	0	59	.17	.00
10	2,299.41	1,455.2	-3.3	14	1,620	0	0	59	.17	.00
11	2,299.14	1,452.0	-3.2	0	1,533	0	0	73	.21	.00
12	2,298.75	1,447.5	-4.6	327	2,590	0	0	48	.14	.00
13	2,298.34	1,442.6	-4.8	94	2,471	0	0	48	.14	.00
14	2,297.93	1,437.8	-4.8	116	2,493	0	0	45	.13	.00
15	2,297.52	1,433.1	-4.8	106	2,478	0	0	38	.11	.00
16	2,297.10	1,428.2	-4.9	8	2,433	0	0	44	.13	.00
17	2,296.73	1,423.9	-4.3	88	2,213	0	0	41	.12	.00
18	2,296.32	1,419.1	-4.8	170	2,522	3	0	41	.12	.00
19	2,295.88	1,414.0	-5.1	61	2,564	0	0	65	.19	.00
20	2,295.78	1,412.9	-1.2	-544	0	0	0	37	.11	.00
21	2,295.71	1,412.1	-0.8	53	14	0	415	31	.09	.00
22	2,295.67	1,411.6	-0.5	112	14	0	299	31	.09	.00
23	2,295.62	1,411.0	-0.6	38	14	0	280	34	.10	.00
24	2,295.57	1,410.4	-0.6	57	14	0	302	31	.09	.00
25	2,295.52	1,409.9	-0.6	91	14	0	353	14	.04	.00
26	2,295.45	1,409.1	-0.8	0	14	0	362	31	.09	.00
27	2,295.39	1,408.4	-0.7	14	14	0	315	34	.10	.00
28	2,295.34	1,407.8	-0.6	144	14	0	390	30	.09	.00
29	2,295.28	1,407.1	-0.7	0	14	0	301	34	.10	.00
30	2,295.22	1,406.4	-0.7	29	14	0	329	34	.10	.00
31	2,295.16	1,405.7	-0.7	1	14	0	312	24	.07	.00
TOTALS			-94.8	1,844	44,416	3	3,658	1,356	3.93	.00
ACRE-FEET			-94,800	3,658	88,099	6	7,256	2,690		

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	88,099	OUTLET	7,256	PRECIPITATION	
SPILL	6	TOTAL	95,361	THIS MONTH =	.00
				JULY 1, 2002 TO DATE =	.02

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

Table 5

OCTOBER 2002

WHISKEYTOWN LAKE DAILY OPERATIONS

RUN DATE: November 14, 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		
		237.3										
1	1,209.02	238.0	+0.7	3,044	3,033	11	200	0	2,482	9	.10	.00
2	1,209.17	238.4	+0.5	3,050	2,988	62	200	0	2,597	11	.12	.00
3	1,209.08	238.2	-0.3	3,044	2,983	61	200	0	2,979	10	.11	.00
4	1,209.01	237.9	-0.2	3,085	3,013	72	200	0	2,990	8	.09	.00
5	1,209.00	237.9	+0.0	1,088	1,077	11	200	0	892	12	.13	.00
6	1,208.99	237.9	+0.0	993	976	17	200	0	797	12	.13	.00
7	1,208.86	237.5	-0.4	993	976	17	200	0	983	18	.19	.00
8	1,208.75	237.1	-0.3	1,040	995	45	200	0	1,002	14	.15	.00
9	1,209.20	238.5	+1.4	961	961	0	200	0	21	17	.18	.00
10	1,209.03	238.0	-0.5	971	943	28	200	0	1,033	12	.13	.00
11	1,209.04	238.0	+0.0	1,123	1,106	17	200	0	896	11	.12	.00
12	1,208.87	237.5	-0.5	2,100	2,064	36	200	0	2,157	16	.17	.00
13	1,208.58	236.6	-0.9	2,106	2,023	83	200	0	2,357	14	.15	.00
14	1,208.29	235.6	-0.9	2,103	2,060	43	200	0	2,355	12	.13	.00
15	1,207.92	234.5	-1.2	2,037	2,000	37	200	0	2,417	12	.13	.00
16	1,207.57	233.4	-1.1	2,124	2,079	45	200	0	2,470	11	.12	.00
17	1,207.23	232.3	-1.1	2,148	2,088	60	200	0	2,482	6	.07	.00
18	1,206.76	230.8	-1.5	2,062	1,967	95	200	0	2,598	9	.10	.00
19	1,205.89	228.1	-2.7	2,113	2,030	83	200	0	3,277	8	.09	.00
20	1,205.18	225.9	-2.2	70	0	70	200	0	976	7	.08	.00
21	1,204.85	224.9	-1.0	-51	12	-63	200	0	251	13	.14	.00
22	1,204.73	224.5	-0.4	33	14	19	200	0	14	6	.07	.00
23	1,204.59	224.1	-0.4	4	14	-10	200	0	16	6	.07	.00
24	1,204.43	223.6	-0.5	-15	14	-29	200	0	30	4	.04	.00
25	1,204.32	223.2	-0.3	49	14	35	200	0	17	3	.03	.00
26	1,204.18	222.8	-0.4	0	14	-14	200	0	14	4	.04	.00
27	1,204.04	222.4	-0.4	1	14	-13	200	0	14	5	.06	.00
28	1,203.57	220.9	-1.4	17	14	3	200	0	539	4	.04	.00
29	1,203.13	219.6	-1.3	52	14	38	200	0	528	4	.05	.00
30	1,202.56	217.8	-1.7	103	14	89	200	0	774	4	.05	.00
31	1,201.99	216.1	-1.7	89	14	75	200	0	756	6	.07	.00
TOTALS			-20.7	36,537	35,514	1,023	6,200	0	40,714	288	3.15	.00
ACRE-FEET			-20.7	72,471	70,442	2,029	12,298	0	80,756	571		

* 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	80,756	OUTLET	12,298	THIS MONTH	.00
SPILL	0	TOTAL	93,054	JULY 1, 2002 TO DATE	.00

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

Table 6

OCTOBER 2002

LEWISTON LAKE DAILY OPERATIONS

RUN DATE: November 14, 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
		13,823								
1	1,900.60	13,617	-206	3,383	80	50	320	3,033	4	.17
2	1,900.71	13,698	+81	3,483	80	50	320	2,988	4	.19
3	1,901.50	14,285	+587	3,733	80	50	320	2,983	4	.12
4	1,901.74	14,465	+180	3,556	80	50	320	3,013	2	.10
5	1,901.56	14,330	-135	1,462	80	50	320	1,077	3	.15
6	1,901.18	14,046	-284	1,287	80	50	320	976	4	.17
7	1,901.30	14,135	+89	1,475	80	50	320	976	4	.17
8	1,901.16	14,031	-104	1,396	80	50	320	995	3	.16
9	1,901.37	14,188	+157	1,494	80	50	320	961	4	.17
10	1,901.48	14,270	+82	1,437	80	50	320	943	3	.17
11	1,901.24	14,091	-179	1,471	80	50	320	1,106	5	.21
12	1,901.46	14,255	+164	2,600	80	50	320	2,064	3	.14
13	1,901.48	14,270	+15	2,484	80	50	320	2,023	3	.14
14	1,901.33	14,158	-112	2,457	80	50	320	2,060	3	.13
15	1,901.34	14,165	+7	2,456	80	50	320	2,000	2	.11
16	1,901.39	14,203	+38	2,426	80	40	205	2,079	3	.13
17	1,900.92	13,852	-351	2,214	80	40	180	2,088	3	.12
18	1,901.40	14,210	+358	2,450	80	40	180	1,967	3	.12
19	1,901.93	14,607	+397	2,534	80	40	180	2,030	4	.19
20	1,900.97	13,889	-718	-60	80	40	180	0	2	.11
21	1,901.33	14,158	+269	450	76	40	184	12	2	.09
22	1,901.23	14,083	-75	278	80	34	186	14	2	.09
23	1,901.09	13,978	-105	263	80	30	190	14	2	.10
24	1,901.04	13,941	-37	297	80	30	190	14	2	.09
25	1,901.17	14,038	+97	364	80	30	190	14	1	.04
26	1,901.20	14,061	+23	328	80	30	190	14	2	.09
27	1,901.18	14,046	-15	308	80	30	190	14	2	.10
28	1,901.40	14,210	+164	399	80	30	190	14	2	.09
29	1,901.17	14,038	-172	229	80	30	190	14	2	.10
30	1,901.20	14,061	+23	328	80	30	190	14	2	.10
31	1,901.15	14,023	-38	297	80	30	190	14	2	.07
TOTALS			+200	47,279	2,476	1,294	7,805	35,514	87	3.93
ACRE-FEET			+200	93,778	4,911	2,567	15,481	70,442	173	

* 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	4,911	JUDGE FRANCIS CARR POWERPLANT	70,442
TOTAL RIVER	22,959	TOTAL RELEASE	93,401

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

Table 7

OCTOBER 2002

SPRING CREEK DEBRIS RESERVOIR DAILY OPERATIONS

RUN DATE: November 14, 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	
		853							
1	709.73	853	+0	0	0	0			
2	709.74	854	+1	1	0	0			
3	709.77	855	+1	1	0	0			
4	709.83	856	+1	1	0	0			
5	709.88	858	+2	1	0	0			
6	709.91	858	+0	0	0	0			
7	710.02	862	+4	2	0	0			
8	710.08	863	+1	1	0	0			
9	710.17	866	+3	2	0	0			
10	710.22	868	+2	1	0	0			
11	710.33	871	+3	2	0	0			
12	710.49	876	+5	3	0	0			
13	710.56	878	+2	1	0	0			
14	710.64	880	+2	1	0	0			
15	710.72	883	+3	2	0	0			
16	710.31	870	-13	-3	0	4			
17	709.17	838	-32	-6	0	10			
18	707.96	804	-34	-7	0	10			
19	706.93	775	-29	-7	0	8			
20	707.05	778	+3	2	0	0			
21	707.09	780	+2	1	0	0			
22	707.17	782	+2	1	0	0			
23	707.23	783	+1	1	0	0			
24	707.30	785	+2	1	0	0			
25	707.41	788	+3	2	0	0			
26	707.53	792	+4	2	0	0			
27	707.56	793	+1	1	0	0			
28	707.64	795	+2	1	0	0			
29	707.70	797	+2	1	0	0			
30	707.74	798	+1	1	0	0			
31	707.77	799	+1	1	0	0			
TOTALS			-54	11	0	32			
ACRE-FEET			-54	22	0	63			

COMMENTS:

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

SUMMARY

RELEASE (ACRE-FEET)

SPILL	0
OUTLET	63
TOTAL	63

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

Table 8

OCTOBER 2002

KESWICK RESERVOIR DAILY OPERATIONS

RUN DATE: November 14, 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)
		22,192								
1	584.47	22,180	-12	7,013	2,482	4,448	7,014	0	0	5
2	583.85	21,799	-381	6,004	2,597	3,256	6,193	0	0	3
3	583.83	21,787	-12	6,146	2,979	2,939	6,148	0	0	4
4	583.75	21,738	-49	5,932	2,990	2,676	5,953	0	0	4
5	584.18	22,001	+263	6,081	892	4,855	5,944	0	0	4
6	583.49	21,580	-421	5,740	797	4,588	5,948	0	0	4
7	584.22	22,026	+446	6,174	983	4,875	5,944	0	0	5
8	583.68	21,696	-330	5,780	1,002	4,329	5,941	0	0	5
9	584.00	21,890	+194	6,111	21	5,678	6,007	0	0	6
10	582.78	21,152	-738	5,781	1,033	4,440	6,148	0	0	5
11	584.07	21,933	+781	6,546	896	5,252	6,146	0	0	6
12	585.18	22,620	+687	7,358	2,157	4,814	7,008	0	0	4
13	584.99	22,501	-119	7,004	2,357	4,195	7,059	0	0	5
14	584.54	22,223	-278	6,906	2,355	4,014	7,042	0	0	4
15	583.42	21,538	-685	6,699	2,417	3,934	7,041	0	0	3
16	584.12	21,964	+426	7,276	2,470	4,424	7,053	0	0	8
17	583.94	21,854	-110	7,488	2,482	4,517	7,542	0	0	1
18	583.60	21,647	-207	7,461	2,598	4,623	7,565	0	0	0
19	584.45	22,168	+521	7,814	3,277	4,242	7,548	0	0	3
20	581.12	20,170	-1,998	6,558	976	5,224	7,562	0	0	3
21	583.73	21,726	+1,556	8,312	251	7,643	7,523	0	0	5
22	585.16	22,607	+881	7,923	14	7,676	7,474	0	0	5
23	584.06	21,927	-680	7,221	16	6,610	7,564	0	0	0
24	584.23	22,032	+105	7,633	30	7,076	7,577	0	0	3
25	584.16	21,989	-43	7,517	17	7,000	7,539	0	0	0
26	585.28	22,683	+694	7,903	14	7,397	7,552	0	0	1
27	585.08	22,557	-126	7,481	14	7,231	7,542	0	0	3
28	584.31	22,081	-476	7,297	539	6,305	7,534	0	0	3
29	584.42	22,149	+68	7,579	528	6,485	7,542	0	0	3
30	585.13	22,589	+440	7,770	774	6,635	7,544	0	0	4
31	584.25	22,044	-545	7,268	756	6,124	7,540	0	0	3
TOTALS			-148	215,776	40,714	163,505	215,737	0	0	112
ACRE-FEET			-148	427,992	80,756	324,312	427,914	0	0	222

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

SUMMARY
 RELEASE (ACRE-FEET)

POWER	427,914
SPILL	0
FISH TRAP	0

OCTOBER 2002

RED BLUFF DIVERSION RESERVOIR DAILY OPERATIONS

RUN DATE: November 14, 2002

DAY	ELEVATION	STORAGE		RELEASE C.F.S		RELEASE TO SACTO RIVER
		IN LAKE	ACRE-FEET CHANGE	CORNING CANAL	TEHAMA COLUSA CANAL	
		344				
1	238.94	344	+0	25	277	5,775
2	239.91	459	+115	41	153	6,200
3	238.65	314	-145	56	107	5,100
4	238.61	310	-4	31	202	4,800
5	238.51	300	-10	40	255	4,700
6	238.51	300	+0	40	260	4,700
7	238.51	300	+0	25	269	4,700
8	238.56	305	+5	39	177	4,750
9	238.54	303	-2	44	244	4,700
10	238.50	299	-4	58	308	4,650
11	238.60	309	+10	22	274	4,800
12	238.63	312	+3	30	149	4,950
13	238.82	332	+20	29	125	5,900
14	238.85	335	+3	17	191	6,000
15	238.86	336	+1	19	284	5,950
16	238.87	337	+1	32	196	5,975
17	238.89	339	+2	44	306	6,192
18	238.90	340	+1	39	184	6,190
19	238.89	339	-1	24	197	6,216
20	238.96	346	+7	30	195	6,784
21	239.16	369	+23	17	138	6,816
22	239.17	370	+1	13	141	6,712
23	239.17	370	+0	30	81	6,829
24	239.23	378	+8	31	80	7,119
25	239.24	379	+1	23	125	7,344
26	239.23	378	-1	17	96	7,452
27	239.22	376	-2	11	106	7,310
28	239.23	378	+2	20	96	7,351
29	239.22	376	-2	20	92	7,450
30	239.21	375	-1	0	113	7,454
31	239.23	378	+3	54	58	7,364
TOTALS			+34	921	5,479	188,233
ACRE-FEET			+34	1,827	10,868	373,360

SUMMARY

RELEASE (ACRE-FEET)

CORNING CANAL	1,827
TEHAMA-COLUSA CANAL	10,868
TO SACTO RIVER	373,360
TOTAL	386,055

Table 10

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

DAILY OPERATION OF BLACK BUTTE RESERVOIR, STONY CREEK, CALIFORNIA

October 2002

Date	Midnight	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)			Storage (ac-ft)	Total (sfd)	River (sfd)	[1] (sfd)						[2] (sfd)
1	437.11	26744	-477	7	223	113	110	0	48	0.39	0	35731	106900
2	436.82	26291	-453	3	206	99	107	0	51	0.42	0	35690	105300
3	436.54	25860	-431	4	208	101	107	0	27	0.23	0	35646	103600
4	436.25	25422	-438	1	208	89	119	0	27	0.23	0	35660	101900
5	435.95	24976	-446	4	212	94	118	0	34	0.3	0	35670	100200
6	435.65	24538	-438	2	201	88	113	0	44	0.39	0	35672	98500
7	435.37	24136	-402	3	183	84	99	0	45	0.41	0	35671	96800
8	435.08	23727	-409	1	192	75	117	0	30	0.28	0	35671	95100
9	434.8	23338	-389	7	191	71	120	0	24	0.22	0	35324	93400
10	434.42	22820	-518	9	262	98	164	0	16	0.15	0	34795	92600
11	434.15	22457	-363	90	252	102	150	0	41	0.39	0	34352	91400
12	434.06	22337	-120	189	234	122	112	0	31	0.3	0	33819	90200
13	434	22257	-80	202	228	117	111	0	28	0.27	0	33463	89100
14	433.95	22191	-66	209	231	109	122	0	22	0.21	0	32940	85800
15	433.95	22191	0	213	202	94	108	0	21	0.2	0	32415	86700
16	434.01	22271	80	220	170	76	94	0	20	0.19	0	31879	85600
17	434.09	22377	106	224	165	69	96	0	12	0.12	0	31342	84400
18	434.18	22497	120	217	154	84	70	0	5	0.05	0	30604	83200
19	434.31	22671	174	224	130	80	50	0	12	0.11	0	29762	82100
20	434.47	22887	216	232	113	67	46	0	21	0.2	0	29544	80900
21	434.6	23064	177	242	138	58	80	0	29	0.27	0	29022	79700
22	434.7	23201	137	221	144	54	90	0	15	0.14	0	28439	78600
23	434.81	23352	151	231	149	70	79	0	12	0.11	0	27915	77400
24	434.89	23463	111	227	169	81	88	0	4	0.04	0	27353	76300
25	435.06	23699	236	234	105	45	60	0	20	0.18	0	26984	75000
26	435.21	23909	210	180	66	37	29	0	16	0.15	0	26642	73600
27	435.33	24079	170	156	62	32	30	0	17	0.15	0	26320	70700
28	435.32	24065	-14	159	157	76	81	0	17	0.15	0	26014	70900
29	435.2	23895	-170	141	216	105	111	0	22	0.2	0	25686	69500
30	435.08	23727	-168	134	207	91	116	0	24	0.22	0	25455	68000
31	434.9	23476	-251	95	205	89	116	0	32	0.3	0	25422	66400
Totals	(sfd)			4081	5583	2570	3013	0					
Totals	(ac-ft)		-3745	8095	11073.9	5097.6			767				
Totals	(inches)								6.97	0			

[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

OCTOBER 2002

FOLSOM LAKE DAILY OPERATIONS

RUN DATE: November 14, 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	
		509.8									
1	417.44	507.3	-2.5	533	1,535	0	0	211	38	.14	.00
2	417.15	505.0	-2.3	708	1,577	0	0	210	91	.34	.00
3	416.85	502.6	-2.4	659	1,587	0	0	210	67	.25	.00
4	416.60	500.6	-2.0	834	1,558	0	0	225	51	.19	.00
5	416.35	498.6	-2.0	865	1,582	0	0	223	59	.22	.00
6	416.14	496.9	-1.7	949	1,510	0	0	222	56	.21	.00
7	415.88	494.9	-2.1	830	1,602	0	0	236	27	.10	.00
8	415.77	494.0	-0.9	1,404	1,554	0	0	222	64	.24	.00
9	415.70	493.5	-0.6	1,554	1,566	0	0	209	56	.21	.00
10	415.55	492.3	-1.2	1,225	1,563	0	0	206	50	.19	.00
11	415.32	490.5	-1.8	852	1,537	0	0	197	29	.11	.00
12	415.05	488.4	-2.1	786	1,605	0	0	208	42	.16	.00
13	414.75	486.0	-2.3	665	1,573	0	0	216	55	.21	.00
14	414.43	483.5	-2.5	605	1,574	0	0	221	65	.25	.00
15	414.29	482.4	-1.1	1,296	1,590	0	0	211	44	.17	.00
16	414.05	480.6	-1.9	927	1,619	0	0	205	44	.17	.00
17	413.84	479.0	-1.6	1,002	1,626	0	0	168	26	.10	.00
18	413.60	477.1	-1.8	874	1,602	0	0	175	29	.11	.00
19	413.23	474.3	-2.9	589	1,809	0	0	194	23	.09	.00
20	412.82	471.1	-3.1	215	1,587	0	0	186	28	.11	.00
21	412.51	468.7	-2.4	623	1,604	0	0	183	28	.11	.00
22	412.30	467.1	-1.6	1,020	1,615	0	0	175	38	.15	.00
23	411.99	464.8	-2.4	605	1,570	0	0	173	54	.21	.00
24	411.85	463.7	-1.1	1,297	1,628	0	0	159	43	.17	.00
25	411.84	463.6	-0.1	1,732	1,253	0	350	154	13	.05	.00
26	411.67	462.4	-1.3	1,165	1,092	0	528	161	31	.12	.00
27	411.42	460.5	-1.9	807	1,010	0	550	176	23	.09	.00
28	411.28	459.4	-1.1	1,297	1,108	0	528	166	28	.11	.00
29	411.15	458.4	-1.0	1,186	969	0	527	156	30	.12	.00
30	411.01	457.4	-1.1	1,195	1,006	0	527	147	48	.19	.00
31	410.93	456.8	-0.6	1,389	975	0	527	151	38	.15	.00
TOTALS			-53.4	29,688	45,586	0	3,537	5,956	1,318	5.04	.00
ACRE-FEET			-53,400	58,886	90,420	0	7,016	11,814	2,614		

COMMENTS:

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

SUMMARY

	RELEASE (ACRE-FEET)			PRECIPITATION	
POWER	90,420	OUTLET	7,016	THIS MONTH =	.00
SPILL	0	TOTAL	109,250	JULY 1, 2002 TO DATE =	.00
PUMPING PLANT	11,814				

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

Table 12

OCTOBER 2002

LAKE NATOMA DAILY OPERATIONS

RUN DATE: November 14, 2002

DAY	ELEV	STORAGE ACRE-FEET		COMPUTED* INFLOW C.F.S.	FOLSOM SOUTH CANAL	RELEASE - C.F.S.			EVAP C.F.S. (1)
		IN LAKE	CHANGE			POWER	SPILL	HATCHERY	
1	123.43	8,050	-57	1,523	42	1,448	0	60	2
2	123.45	7,993	+10	1,557	42	1,446	0	60	4
3	123.52	8,035	+32	1,568	42	1,447	0	60	3
4	123.49	8,021	-14	1,542	42	1,445	0	60	2
5	123.56	8,054	+33	1,567	42	1,445	0	60	3
6	123.39	7,974	-80	1,513	42	1,448	0	60	3
7	123.57	8,059	+85	1,598	42	1,452	0	60	1
8	123.46	8,007	-52	1,527	42	1,448	0	60	3
9	123.48	8,017	+10	1,556	42	1,446	0	60	3
10	123.45	8,003	-14	1,541	42	1,444	0	60	2
11	123.33	7,946	-57	1,520	42	1,446	0	60	1
12	123.44	7,998	+52	1,577	42	1,447	0	60	2
13	123.43	7,993	-5	1,551	47	1,444	0	60	3
14	123.38	7,970	-23	1,549	50	1,448	0	60	3
15	123.38	7,970	+0	1,563	50	1,451	0	60	2
16	123.57	8,059	+89	1,604	50	1,447	0	60	2
17	123.70	8,120	+61	1,586	50	1,444	0	60	1
18	123.69	8,115	-5	1,559	50	1,451	0	60	1
19	123.71	8,125	+10	1,563	50	1,447	0	60	1
20	123.74	8,139	+14	1,561	50	1,443	0	60	1
21	123.69	8,115	-24	1,546	50	1,447	0	60	1
22	123.72	8,129	+14	1,560	50	1,441	0	60	2
23	123.79	8,162	+33	1,575	50	1,445	0	60	3
24	124.02	8,271	+109	1,609	50	1,442	0	60	2
25	124.19	8,356	+85	1,597	50	1,443	0	60	1
26	124.37	8,446	+90	1,600	46	1,447	0	60	2
27	124.30	8,411	-35	1,583	36	1,504	0	60	1
28	124.50	8,511	+100	1,584	30	1,443	0	60	1
29	124.28	8,401	-110	1,480	30	1,443	0	60	2
30	124.16	8,341	-60	1,504	30	1,442	0	60	2
31	123.89	8,209	-132	1,476	30	1,451	0	60	2
TOTALS			+159	48,239	1,353	44,885	0	1,860	62
ACRE-FEET			+159	95,682	2,684	89,029	0	3,689	123

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	89,029	FOLSOM SOUTH CANAL	2,684	TOTAL	95,402
SPILL	0	HATCHERY	3,689		

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

Table 13

OCTOBER 2002

NEW MELONES LAKE DAILY OPERATIONS

RUN DATE: November 14, 2002

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	
		1,278.2								
1	978.00	1,277.6	-0.6	640	877	0	0	60	.22	.00
2	977.94	1,277.1	-0.5	669	850	0	0	73	.27	.00
3	977.95	1,277.2	+0.1	785	672	0	0	71	.26	.00
4	977.98	1,277.5	+0.3	799	618	0	0	54	.20	.00
5	977.97	1,277.4	-0.1	704	673	0	0	73	.27	.00
6	978.01	1,277.7	+0.3	692	474	0	0	49	.18	.00
7	978.08	1,278.3	+0.6	876	508	0	0	71	.26	.00
8	978.00	1,277.6	-0.7	757	1,018	0	0	79	.29	.00
9	977.97	1,277.4	-0.3	805	850	0	0	82	.30	.00
10	977.90	1,276.8	-0.6	674	902	0	0	68	.25	.00
11	977.86	1,276.5	-0.3	702	830	0	0	41	.15	.00
12	977.82	1,276.1	-0.3	665	799	0	0	35	.13	.00
13	977.75	1,275.5	-0.6	593	848	0	0	41	.15	.00
14	977.76	1,275.6	+0.1	740	630	0	0	68	.25	.00
15	977.93	1,277.1	+1.4	787	14	0	0	54	.20	.00
16	978.09	1,278.4	+1.3	849	113	0	0	57	.21	.00
17	978.24	1,279.7	+1.3	702	24	0	0	41	.15	.00
18	978.37	1,280.8	+1.1	679	85	0	0	41	.15	.00
19	978.48	1,281.7	+0.9	576	98	0	0	11	.04	.00
20	978.46	1,281.5	-0.2	594	644	0	0	35	.13	.00
21	978.57	1,282.4	+0.9	540	20	0	0	52	.19	.00
22	978.68	1,283.4	+0.9	527	14	0	0	46	.17	.00
23	978.70	1,283.5	+0.2	595	469	0	0	41	.15	.00
24	978.86	1,284.9	+1.3	724	14	0	0	30	.11	.00
25	978.77	1,284.1	-0.8	744	1,102	0	0	25	.09	.00
26	978.58	1,282.5	-1.6	485	1,262	0	0	30	.11	.00
27	978.56	1,282.4	-0.2	674	737	0	0	22	.08	.00
28	978.73	1,283.8	+1.4	774	14	0	0	38	.14	.00
29	978.89	1,285.1	+1.3	751	14	0	0	57	.21	.00
30	979.05	1,286.5	+1.4	731	14	0	0	36	.13	.00
31	979.21	1,287.9	+1.4	841	14	0	37	107	.39	.00
TOTALS			+9.4	21,674	15,201	0	37	1,588	5.83	.00
ACRE-FEET			+9,400	42,990	30,151	0	73	3,150		

COMMENTS:

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

SUMMARY

	RELEASE (ACRE-FEET)			PRECIPITATION	
POWER	30,151	OUTLET	73	THIS MONTH =	.00
SPILL	0	TOTAL	30,224	JULY 1, 2002 TO DATE =	.00

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

OCTOBER 2002

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
		534						
1	360.00	537	+3	898	0	196	233	347
2	360.00	537	+0	899	0	221	227	338
3	359.97	535	-2	875	0	221	206	326
4	359.97	535	+0	841	0	219	206	294
5	359.97	535	+0	809	0	218	205	266
6	359.97	535	+0	824	0	216	218	274
7	359.95	534	-1	886	0	215	222	331
8	360.00	537	+3	904	0	219	234	341
9	359.97	535	-2	892	0	218	245	336
10	359.97	535	+0	884	0	220	241	336
11	359.97	535	+0	855	0	225	206	336
12	359.97	535	+0	800	0	219	173	330
13	359.97	535	+0	717	0	219	117	312
14	359.97	535	+0	332	0	220	37	16
15	359.97	535	+0	288	0	217	6	0
16	359.97	535	+0	290	0	223	6	0
17	359.97	535	+0	285	0	224	6	0
18	359.97	535	+0	283	0	220	5	0
19	360.00	537	+2	277	0	219	5	0
20	360.05	541	+4	331	0	289	5	0
21	360.30	558	+17	553	0	537	5	0
22	360.30	558	+0	688	0	695	6	0
23	360.27	556	-2	688	0	691	7	0
24	360.30	558	+2	684	0	690	5	0
25	360.27	556	-2	691	0	695	4	0
26	360.30	558	+2	694	0	693	3	0
27	360.27	556	-2	685	0	693	3	0
28	360.11	545	-11	542	0	551	3	0
29	360.00	537	-8	355	0	333	3	0
30	360.00	537	+0	302	0	251	2	0
31	360.00	537	+0	302	0	250	3	0
TOTALS			+3	19,354	0	10,517	2,847	4,183
ACRE-FEET			+3	38,389	0	20,860	5,647	8,297

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

SUMMARY
 RELEASE (ACRE-FEET)

JOINT MAIN CANAL	5,647	OUTLET	0
SOUTH MAIN CANAL	8,297	SPILL	20,860
		TOTAL	34,804

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

Table 15

OCTOBER 2002

MILLERTON LAKE DAILY OPERATIONS

RUN DATE: November 14, 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		
		221.1								
1	501.87	221.2	+0.1	1,264	0	1,021	0	191	22	.23
2	502.03	221.7	+0.5	1,434	0	993	0	182	19	.20
3	502.19	222.1	+0.5	1,365	0	920	0	182	21	.22
4	502.79	223.9	+1.8	1,831	0	723	0	182	18	.18
5	503.72	226.8	+2.8	2,203	0	580	0	182	25	.26
6	504.71	229.8	+3.0	2,380	0	656	0	183	21	.21
7	506.52	235.3	+5.6	3,819	0	804	0	182	22	.22
8	505.97	233.6	-1.7	211	0	872	0	179	20	.20
9	505.75	233.0	-0.7	882	0	1,015	0	178	30	.30
10	505.30	231.6	-1.4	613	0	1,108	0	178	25	.25
11	504.87	230.3	-1.3	504	0	960	0	177	32	.32
12	504.57	229.3	-0.9	564	0	829	0	177	19	.19
13	504.19	228.2	-1.2	491	0	870	0	177	28	.28
14	503.49	226.1	-2.1	144	0	1,025	0	177	13	.13
15	502.88	224.2	-1.8	330	0	1,067	0	177	15	.15
16	502.24	222.3	-1.9	265	0	1,039	0	176	18	.19
17	501.59	220.4	-1.9	208	0	998	0	176	13	.13
18	501.13	219.0	-1.4	319	0	817	0	176	16	.17
19	500.74	217.8	-1.2	227	0	617	0	176	16	.17
20	500.29	216.5	-1.3	116	0	598	0	176	12	.13
21	500.35	216.7	+0.2	954	0	671	0	176	18	.19
22	500.28	216.5	-0.2	786	0	698	0	176	16	.17
23	500.22	216.3	-0.2	858	0	755	0	176	16	.17
24	500.13	216.0	-0.3	799	0	738	0	176	19	.20
25	500.22	216.3	+0.3	901	0	586	0	176	5	.05
26	500.46	217.0	+0.7	955	0	414	0	176	8	.08
27	500.60	217.4	+0.4	775	0	381	0	176	9	.09
28	500.63	217.5	+0.1	677	0	460	0	160	13	.14
29	500.84	218.1	+0.6	970	0	502	0	146	9	.09
30	500.97	218.5	+0.4	941	0	590	0	146	12	.12
31	500.99	218.6	+0.1	822	0	623	0	146	23	.24
TOTALS			-2.6	28,608	0	23,930	0	5,414	553	5.67
ACRE-FEET			-2,560	56,744	0	47,465	0	10,739	1,097	

COMMENTS:

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

SUMMARY

RELEASE (ACRE-FEET)		PRECIPITATION	
CANALS	RIVER		
FRIANT-KERN	AT FRIANT	THIS MONTH =	0.00
MADERA	TOTAL RELEASES	JULY 1, 2002 TO DATE =	0.00

Table 16

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

October 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-Oct-02	12,566	154	0	192	1,270	1,180	1,221	14,182	2,150	2,492	4,327	76	18	79	6,956	6,663	5,076	4,846	5,076	48.0%	47.3%	45.2%
2-Oct-02	12,090	154	0	282	1,221	1,180	1,186	13,747	2,100	2,508	4,323	64	28	84	6,950	6,820	4,697	4,827	4,886	49.5%	48.9%	46.6%
3-Oct-02	11,737	154	0	289	1,151	1,178	1,176	13,331	2,050	1,997	4,313	66	9	67	6,434	6,653	4,847	4,817	4,873	47.3%	48.2%	46.0%
4-Oct-02	11,324	154	0	282	1,155	1,190	1,188	12,915	2,050	1,992	4,289	69	29	69	6,391	6,474	4,474	4,859	4,774	48.4%	48.4%	45.3%
5-Oct-02	11,042	154	0	282	1,224	1,206	1,198	12,702	2,000	1,293	4,313	71	10	62	5,728	6,066	4,974	4,901	4,814	44.1%	46.6%	43.0%
6-Oct-02	10,814	154	0	267	1,241	1,211	1,201	12,476	2,000	1,292	4,298	71	10	66	5,716	5,826	4,760	4,783	4,805	44.7%	45.8%	41.9%
7-Oct-02	10,474	154	0	259	1,213	1,203	1,203	12,100	1,950	999	4,275	70	61	70	5,353	5,490	4,797	4,804	4,804	43.1%	44.0%	40.0%
8-Oct-02	10,104	154	0	274	1,215	1,196	1,199	11,747	1,950	981	4,270	81	38	88	5,382	5,372	4,415	4,709	4,755	44.4%	44.1%	39.7%
9-Oct-02	9,632	154	0	280	1,172	1,200	1,197	11,238	1,950	999	4,432	74	23	82	5,563	5,319	3,725	4,570	4,641	48.1%	45.1%	40.1%
10-Oct-02	9,332	154	0	258	1,177	1,197	1,191	10,921	1,900	990	4,351	70	26	72	5,456	5,341	3,565	4,387	4,533	48.7%	47.0%	41.1%
11-Oct-02	9,215	154	0	249	1,138	1,185	1,186	10,756	1,900	999	4,225	62	28	77	5,334	5,332	3,522	4,251	4,441	48.3%	48.4%	41.7%
12-Oct-02	10,206	154	0	250	1,137	1,179	1,187	11,747	1,900	996	4,300	74	28	80	5,422	5,287	4,425	4,173	4,440	44.8%	47.2%	41.9%
13-Oct-02	9,782	154	0	248	1,204	1,193	1,196	11,388	1,900	995	4,254	73	25	79	5,376	5,256	4,112	4,080	4,414	45.9%	46.3%	42.3%
14-Oct-02	9,589	154	0	227	1,306	1,212	1,207	11,276	1,850	992	4,301	70	25	76	5,414	5,280	4,012	3,968	4,386	46.7%	45.8%	43.1%
15-Oct-02	9,373	154	0	194	1,348	1,233	1,215	11,069	1,850	992	4,292	77	0	73	5,434	5,276	3,785	3,878	4,346	47.7%	46.8%	44.0%
16-Oct-02	9,220	154	0	198	1,320	1,251	1,221	10,892	1,850	979	4,200	76	17	70	5,307	5,252	3,735	3,879	4,308	47.4%	47.3%	44.6%
17-Oct-02	9,471	154	0	196	1,307	1,265	1,221	11,128	1,850	982	4,189	71	13	72	5,301	5,211	3,977	3,938	4,288	46.4%	47.2%	44.9%
18-Oct-02	9,511	154	0	180	1,236	1,309	1,234	11,081	1,800	987	4,341	69	11	69	5,456	5,226	3,825	3,982	4,262	48.0%	47.2%	45.5%
19-Oct-02	9,551	154	0	174	1,444	1,379	1,258	11,323	1,800	983	4,278	63	10	67	5,381	5,254	4,142	3,941	4,256	46.4%	46.9%	46.1%
20-Oct-02	9,408	154	0	170	1,692	1,454	1,287	11,424	1,800	995	4,246	70	10	65	5,366	5,277	4,258	3,962	4,256	45.8%	46.7%	46.6%
21-Oct-02	9,294	154	0	168	1,829	1,531	1,315	11,445	1,800	1,489	4,293	71	7	71	5,917	5,428	3,728	3,921	4,231	50.5%	47.5%	48.2%
22-Oct-02	9,373	154	0	170	1,886	1,610	1,341	11,583	1,800	2,296	3,770	69	13	73	6,195	5,696	3,588	3,893	4,202	52.3%	49.5%	50.6%
23-Oct-02	9,199	154	0	173	1,879	1,718	1,372	11,405	1,750	1,994	4,494	67	20	71	6,605	6,112	3,050	3,795	4,152	56.7%	53.1%	54.2%
24-Oct-02	9,655	154	0	182	2,063	1,857	1,407	12,054	1,750	1,937	4,291	71	17	60	6,342	6,260	3,962	3,793	4,144	51.5%	53.5%	55.1%
25-Oct-02	9,360	154	0	184	2,205	1,986	1,444	11,903	1,750	1,788	4,286	68	24	51	6,169	6,263	3,984	3,816	4,137	50.8%	53.0%	54.7%
26-Oct-02	9,184	154	0	189	2,345	2,082	1,480	11,872	1,750	1,798	4,301	67	13	59	6,213	6,134	3,909	3,783	4,129	51.3%	51.2%	53.6%
27-Oct-02	9,320	154	0	189	2,367	2,148	1,510	12,030	1,750	2,185	4,511	52	13	59	6,795	6,290	3,485	3,672	4,105	55.6%	52.6%	54.7%
28-Oct-02	9,906	154	0	180	2,289	2,182	1,532	12,529	1,750	2,986	4,217	55	0	59	7,318	6,666	3,461	3,634	4,082	57.5%	54.8%	57.6%
29-Oct-02	9,880	154	0	182	2,126	2,200	1,548	12,342	1,700	4,485	2,210	67	20	52	6,794	6,864	3,848	3,671	4,074	54.1%	55.7%	58.9%
30-Oct-02	10,029	154	0	186	2,003	2,169	1,558	12,372	1,700	3,995	2,203	72	12	44	6,304	6,699	4,368	3,860	4,084	50.0%	53.9%	56.9%
31-Oct-02	10,376	154	0	181	1,846	2,098	1,563	12,557	1,700	3,999	2,098	72	12	63	6,220	6,330	4,637	3,956	4,101	48.5%	50.8%	53.3%
Total	310,017	4,774	0	6,735	48,009	46,181	40,240	369,535	57,800	54,395	126,492	2,146	569	2,129	184,592	181,416	127,143	129,350	136,796	1512.2%	1510.7%	1467.4%
Average	10,001	154	0	217	1,549	1,490	1,298	11,920	1,865	1,755	4,080	69	18	69	5,955	5,852	4,101	4,173		48.8%	48.7%	47.3%

OCTOBER 2002

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

RUN DATE: November 14, 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	
		688,435									
1	419.43	685,705	-2,730	1,925	3,573	359	0	+631	97	.34	.00
2	419.12	682,980	-2,725	2,475	3,031	347	0	-470	128	.45	.00
3	418.68	679,118	-3,862	1,100	3,022	332	0	+308	131	.46	.00
4	418.33	676,052	-3,066	1,650	2,604	339	0	-253	113	.40	.00
5	418.46	677,191	+1,139	1,467	692	334	0	+134	85	.30	.00
6	417.85	671,856	-5,335	1,375	3,563	332	0	-169	85	.30	.00
7	416.98	664,276	-7,580	2,017	5,727	298	0	+187	90	.32	.00
8	416.40	659,241	-5,035	1,569	4,067	342	0	+301	84	.30	.00
9	415.99	655,690	-3,551	2,270	3,243	337	0	-480	106	.38	.00
10	415.68	653,010	-2,680	2,072	3,242	357	0	+176	98	.35	.00
11	414.97	646,887	-6,123	1,470	4,242	346	0	+31	106	.38	.00
12	414.51	642,931	-3,956	1,486	3,099	359	0	-23	56	.20	.00
13	414.45	642,416	-515	2,047	2,167	349	0	+209	55	.20	.00
14	413.73	636,245	-6,171	645	3,396	336	0	-24	66	.24	.00
15	413.45	633,852	-2,393	1,512	2,815	356	0	+453	102	.37	.00
16	412.93	629,415	-4,437	1,725	2,813	341	0	-808	83	.30	.00
17	412.69	627,371	-2,044	1,936	2,479	323	0	-165	83	.30	.00
18	412.35	624,480	-2,891	2,417	3,535	314	0	-26	69	.25	.00
19	412.06	622,018	-2,462	1,797	2,655	305	0	-79	60	.22	.00
20	413.04	630,353	+8,335	4,870	0	286	0	-382	36	.13	.00
21	412.54	626,095	-4,258	1,974	3,626	231	0	-264	52	.19	.00
22	412.52	625,925	-170	2,494	2,280	226	0	-73	61	.22	.00
23	412.47	625,500	-425	1,845	1,618	218	0	-224	63	.23	.00
24	412.69	627,371	+1,871	2,670	1,080	214	0	-433	58	.21	.00
25	412.39	624,820	-2,551	2,587	3,596	203	0	-75	41	.15	.00
26	412.23	623,461	-1,359	2,328	2,645	188	0	-181	41	.15	.00
27	413.54	634,621	+11,160	6,390	0	167	0	-596	59	.22	.00
28	413.09	630,779	-3,842	2,600	4,133	161	0	-243	44	.16	.00
29	413.89	637,615	+6,836	3,945	0	199	0	-299	72	.26	.00
30	414.55	643,275	+5,660	3,449	0	238	0	-357	70	.25	.00
31	415.30	649,730	+6,455	4,114	0	154	0	-706	53	.19	.00
TOTALS			-38,705	72,221	78,943	8,891	0	-3,900	2,347	8.42	.00
ACRE-FEET			-38,705	143,250	156,583	17,635	0	-7,736	4,655		

SUMMARY

	RELEASE (ACRE-FEET)			PRECIPITATION	
POWER	156,583	SPILL	0	THIS MONTH =	.00
PACHECO TUNNEL	17,635	TOTAL	174,218	JULY 1, 2002 TO DATE =	.00

OCTOBER 2002

CONSOLIDATED STATE-FEDERAL O'NEILL FOREBAY
DAILY OPERATIONS

RUN DATE: November 14, 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		
		44,740									
1	221.54	47,178	+2,438	1,893	3,573	2,165	0	1,925	4,491		+14
2	221.18	46,233	-945	1,827	3,031	1,977	0	2,475	4,367		-469
3	221.71	47,625	+1,392	1,767	3,022	1,249	0	1,100	4,179		-57
4	221.97	48,308	+683	1,753	2,604	1,989	0	1,650	4,164		-188
5	220.06	43,308	-5,000	1,782	692	1,320	0	1,467	4,983		+135
6	219.98	43,100	-208	1,689	3,563	1,088	0	1,375	5,143		+72
7	221.33	46,626	+3,526	1,587	5,727	812	0	2,017	4,372		+39
8	222.14	48,756	+2,130	1,502	4,067	698	0	1,569	3,815		+192
9	221.61	47,362	-1,394	1,457	3,243	736	0	2,270	3,761		-108
10	221.65	47,467	+105	1,497	3,242	706	0	2,072	3,354		+34
11	222.24	49,022	+1,555	1,487	4,242	619	0	1,470	3,996		-97
12	221.90	48,124	-898	1,521	3,099	616	0	1,486	3,976		-226
13	220.45	44,322	-3,802	1,683	2,167	868	0	2,047	4,445		-143
14	221.38	46,758	+2,436	1,693	3,396	392	0	645	3,502		-106
15	221.94	48,229	+1,471	1,765	2,815	843	0	1,512	2,935		-235
16	221.95	48,255	+26	1,840	2,813	865	0	1,725	3,540		-240
17	222.00	48,385	+130	2,023	2,479	652	0	1,936	3,185		+34
18	223.08	51,260	+2,875	2,276	3,535	999	0	2,417	3,060		+117
19	223.60	52,652	+1,392	2,498	2,655	690	0	1,797	3,457		+112
20	219.72	42,428	-10,224	2,582	0	710	0	4,870	4,040		+464
21	221.34	46,653	+4,225	2,438	3,626	1,101	0	1,974	3,171		+110
22	222.04	48,491	+1,838	2,025	2,280	2,079	0	2,494	3,207		+243
23	222.35	49,314	+823	2,298	1,618	1,709	0	1,845	3,554		+189
24	221.95	48,255	-1,059	2,567	1,080	1,449	0	2,670	3,285		+325
25	223.43	52,196	+3,941	2,711	3,596	1,377	0	2,587	3,180		+69
26	224.50	55,076	+2,880	2,959	2,645	1,339	0	2,328	3,375		+213
27	221.01	45,787	-9,289	3,160	0	2,246	0	6,390	4,202		+503
28	224.22	54,320	+8,533	3,026	4,133	2,062	0	2,600	2,615		+295
29	222.97	50,966	-3,354	1,566	0	3,782	510	3,945	2,953		+369
30	222.60	49,980	-986	1,663	0	3,959	496	3,449	2,501		+326
31	221.62	47,388	-2,592	1,671	0	3,650	491	4,114	2,456		+433
TOTALS			+2,648	62,206	78,943	44,747	1,497	72,221	113,264		+2,419
ACRE-FEET			+2,648	123,386	156,583	88,756	2,969	143,250	224,659	0	4,798

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

SUMMARY
RELEASE (ACRE-FEET)

O'NEILL GEN.	2,969	DOS AMIGOS PUMP	224,659
SAN LUIS PUMP	143,250	DELIVERIES	0
		TOTAL	370,878

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

Table 19

OCTOBER 2002

FEDERAL-STATE OPERATIONS
 SAN LUIS UNIT

RUN DATE: November 14, 2002

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	4,295	0	4,295	3,754	0	3,754	0	3,882	-64	3,818	0	7,087	7,087	713	0	8,907	8,907
2	3,922	0	3,922	3,623	0	3,623	0	5,037	-128	4,909	0	6,012	6,012	689	0	8,662	8,662
3	2,478	0	2,478	3,505	0	3,505	0	2,209	-27	2,182	0	5,995	5,995	659	0	8,290	8,290
4	3,945	0	3,945	3,478	0	3,478	0	3,355	-82	3,273	0	5,165	5,165	673	0	8,260	8,260
5	2,619	0	2,619	3,534	0	3,534	0	2,948	-39	2,909	0	1,372	1,372	663	0	9,883	9,883
6	2,159	0	2,159	3,351	0	3,351	0	2,801	-74	2,727	0	7,068	7,068	659	0	10,202	10,202
7	1,611	0	1,611	3,148	0	3,148	0	4,050	-50	4,000	0	11,360	11,360	591	0	8,671	8,671
8	1,384	0	1,384	2,980	0	2,980	0	3,137	-25	3,112	0	8,066	8,066	679	0	7,568	7,568
9	1,459	0	1,459	2,890	0	2,890	0	3,375	1,128	4,503	0	6,433	6,433	669	0	7,459	7,459
10	1,400	0	1,400	2,969	0	2,969	0	2,932	1,177	4,109	0	6,430	6,430	708	0	6,652	6,652
11	1,227	0	1,227	2,950	0	2,950	0	2,982	-66	2,916	0	8,414	8,414	686	0	7,927	7,927
12	1,221	0	1,221	3,016	0	3,016	0	3,020	-73	2,947	0	6,146	6,146	712	0	7,886	7,886
13	1,722	0	1,722	3,338	0	3,338	0	4,150	-89	4,061	0	4,298	4,298	693	0	8,816	8,816
14	777	0	777	3,358	0	3,358	0	1,309	-30	1,279	0	6,736	6,736	667	0	6,946	6,946
15	1,673	0	1,673	3,500	0	3,500	0	3,084	-85	2,999	0	5,584	5,584	706	0	5,821	5,821
16	1,716	0	1,716	3,650	0	3,650	0	3,551	-129	3,422	0	5,579	5,579	677	0	7,021	7,021
17	1,293	0	1,293	4,012	0	4,012	0	3,565	276	3,841	0	4,917	4,917	640	0	6,318	6,318
18	1,981	0	1,981	4,514	0	4,514	0	3,499	1,295	4,794	0	7,011	7,011	623	0	6,070	6,070
19	1,369	0	1,369	4,955	0	4,955	0	3,630	-66	3,564	0	5,266	5,266	604	0	6,856	6,856
20	1,408	0	1,408	5,122	0	5,122	0	9,511	149	9,660	0	0	0	567	0	8,014	8,014
21	2,183	0	2,183	4,836	0	4,836	0	4,014	-98	3,916	0	7,192	7,192	459	0	6,289	6,289
22	4,124	0	4,124	4,017	0	4,017	0	4,784	162	4,946	0	4,522	4,522	449	0	6,361	6,361
23	2,363	1,027	3,390	4,559	0	4,559	0	3,592	68	3,660	0	3,209	3,209	432	0	7,049	7,049
24	1,848	1,027	2,875	5,091	0	5,091	0	5,319	-23	5,296	0	2,142	2,142	425	0	6,516	6,516
25	1,705	1,027	2,732	5,378	0	5,378	0	4,981	150	5,131	0	7,132	7,132	402	0	6,307	6,307
26	1,628	1,027	2,655	5,869	0	5,869	0	4,599	19	4,618	0	5,246	5,246	372	0	6,694	6,694
27	3,428	1,027	4,455	6,268	0	6,268	0	12,524	150	12,674	0	0	0	331	0	8,335	8,335
28	3,063	1,027	4,090	6,003	0	6,003	0	4,545	612	5,157	0	8,198	8,198	319	0	5,187	5,187
29	2,374	5,128	7,502	3,107	0	3,107	1,012	7,383	442	7,825	0	0	0	395	0	5,858	5,858
30	2,725	5,128	7,853	3,299	0	3,299	984	6,814	27	6,841	0	0	0	472	0	4,960	4,960
31	3,139	4,101	7,240	3,315	0	3,315	974	8,394	-234	8,160	0	0	0	305	0	4,871	4,871
TOTAL	88,758	TOTAL	123,389	TOTAL	2,970	TOTAL	143,249	TOTAL	156,580	TOTAL	17,639	TOTAL	224,656	FEDERAL	0	STATE	224,656
FEDERAL	20,519	FEDERAL	123,389	FEDERAL	0	FEDERAL	138,976	FEDERAL	0	FEDERAL	0	FEDERAL	0	STATE	224,656	XVC	4,359
STATE	68,239	STATE	0	STATE	0	STATE	4,273	STATE	156,580	STATE	156,580	STATE	156,580				

COMMENTS: ALL VALUES IN ACRE-FEET

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

Table 20

OCTOBER 2002

FEDERAL-STATE OPERATIONS

RUN DATE: November 14, 2002

DAY	TRACY PUMPING			CLIFT COURT TOTAL	DELTA PUMPING PLANT			FED BANKS XVC	STATE		BYRON BETHANY TOTAL	AQEDUCT CHECK 21		DMC-POOL DEMANDS
	FED	STATE	TOTAL		STATE	FED	TOTAL		AMIGOS XVC	DOS XVC		STATE	FED	
1	8,583	0	8,583	4,943	4,532	0	4,929	397	391	35	7,983	0	7,983	4,829
2	8,574	0	8,574	4,974	4,135	0	4,532	397	391	55	7,863	0	7,863	4,951
3	8,554	0	8,554	3,961	3,245	0	3,642	397	391	18	7,458	0	7,458	5,049
4	8,508	0	8,508	3,951	3,519	0	3,916	397	391	57	6,451	0	6,451	5,030
5	8,554	0	8,554	2,565	2,298	0	2,695	397	391	20	8,908	0	8,908	5,020
6	8,525	0	8,525	2,562	2,478	0	2,478	0	0	20	9,310	0	9,310	5,174
7	8,480	0	8,480	1,982	1,571	0	1,968	397	391	121	7,078	0	7,078	5,332
8	8,470	0	8,470	1,945	1,323	0	1,720	397	391	75	6,505	0	6,505	5,490
9	8,791	0	8,791	1,981	1,430	0	1,827	397	391	46	6,158	0	6,158	5,901
10	8,630	0	8,630	1,964	1,429	0	1,826	397	391	52	5,827	0	5,827	5,661
11	8,380	0	8,380	1,981	1,420	0	1,817	397	391	56	6,205	0	6,205	5,430
12	8,530	0	8,530	1,975	1,264	0	1,661	397	391	56	7,306	0	7,306	5,514
13	8,438	0	8,438	1,974	2,204	0	2,204	0	0	50	7,022	0	7,022	5,100
14	8,532	0	8,532	1,967	928	0	992	64	58	50	5,429	0	5,429	5,174
15	8,513	0	8,513	1,968	1,795	0	1,795	0	0	0	5,651	0	5,651	5,013
16	8,330	0	8,330	1,942	1,801	0	1,801	0	0	34	5,419	0	5,419	4,680
17	8,309	0	8,309	1,948	1,815	0	1,815	0	0	25	5,448	0	5,448	4,297
18	8,611	0	8,611	1,958	2,325	0	2,325	0	0	21	4,718	0	4,718	4,097
19	8,486	0	8,486	1,950	2,102	0	2,102	0	0	20	5,013	0	5,013	3,531
20	8,421	0	8,421	1,974	2,083	0	2,083	0	0	20	6,788	0	6,788	3,299
21	8,516	0	8,516	2,954	3,135	0	3,135	0	0	13	5,559	0	5,559	3,680
22	7,477	0	7,477	4,554	4,464	0	4,464	0	0	25	5,161	0	5,161	3,460
23	8,914	0	8,914	3,955	2,845	1,027	3,872	0	0	40	6,047	0	6,047	4,355
24	8,511	0	8,511	3,842	2,975	1,027	4,002	0	0	34	5,802	0	5,802	3,420
25	8,502	0	8,502	3,546	2,471	1,027	3,498	0	0	48	4,885	0	4,885	3,124
26	8,531	0	8,531	3,567	2,493	1,027	3,520	0	0	25	5,397	0	5,397	2,662
27	8,948	0	8,948	4,333	3,755	1,027	4,782	0	0	25	7,274	0	7,274	2,680
28	8,364	0	8,364	5,923	4,594	1,027	5,621	0	0	0	4,425	0	4,425	2,361
29	4,383	0	4,383	8,896	3,728	5,128	8,856	0	0	40	5,282	0	5,282	2,288
30	4,370	0	4,370	7,925	3,097	5,128	8,225	0	0	23	4,721	0	4,721	2,055
31	4,161	0	4,161	7,933	4,066	4,101	8,167	0	0	24	4,293	0	4,293	1,820
TOTALS	250,896	0	250,896	107,893	81,320	20,519	106,270	4,431	4,359	1,128	191,386	0	191,386	130,477

COMMENTS: ALL VALUES IN ACRE-FEET

- TOTAL TRACY: 10/29/02 - Decrease in pumping for Tracy Fish Facility repairs.
- TOTAL TRACY: 10/30/02 - Decrease in pumping for Tracy Fish Facility repairs.
- TOTAL TRACY: 10/31/02 - Decrease in pumping for Tracy Fish Facility repairs.
- FED BANKS: 10/23/02 - 1,027 af for Contra Costa WD to Westlands WD Transfer.
- FED BANKS: 10/24/02 - 1,027 af for Contra Costa WD to Westlands WD Transfer.
- FED BANKS: 10/25/02 - 1,027 af for Contra Costa WD to Westlands WD Transfer.
- FED BANKS: 10/26/02 - 1,027 af for Contra Costa WD to Westlands WD Transfer.
- FED BANKS: 10/27/02 - 1,027 af for Contra Costa WD to Westlands WD Transfer.
- FED BANKS: 10/28/02 - 1,027 af for Contra Costa WD to Westlands WD Transfer.
- FED BANKS: 10/29/02 - 992 af for Contra Costa WD to Westlands WD Transfer and 4,136 af for CVP use due to decrease at Tracy for fish facility repairs.
- FED BANKS: 10/30/02 - 846 af for Contra Costa WD to Westlands WD Transfer and 4,282 af for CVP use due to decrease at Tracy for fish facility repairs.
- FED BANKS: 10/31/02 - 4,101 af for CVP use due to decrease at Tracy for fish facility repairs.
- TOTAL BANKS: 10/01/02 - 496 af is CVC Article 55 Water for delivery to KCWA (496 af) on behalf of Kern Tulare WD & Rag Gulch WD.
- TOTAL BANKS: 10/02/02 - 33 af is CVC Article 55 Water for delivery to KCWA (33 af) on behalf of Kern Tulare WD & Rag Gulch WD.
- TOTAL BANKS: 10/31/02 - 925 af is Article 55 Water for Contra Costa WD transfer to Santa Clara Valley WD.
- FED BANKS XVC: 10/01/02 - 397 af is CVC Water for delivery of 391 af to AEWS on behalf of Hills Valley, Tri Valley, Tulare Co, Lower Tule and Pixley.
- FED BANKS XVC: 10/02/02 - 397 af is CVC Water for delivery of 391 af to AEWS on behalf of Hills Valley, Tri Valley, Tulare Co, Lower Tule and Pixley.
- FED BANKS XVC: 10/03/02 - 397 af is CVC Water for delivery of 391 af to AEWS on behalf of Hills Valley, Tri Valley, Tulare Co, Lower Tule and Pixley.
- FED BANKS XVC: 10/04/02 - 397 af is CVC Water for delivery of 391 af to AEWS on behalf of Hills Valley, Tri Valley, Tulare Co, Lower Tule and Pixley.

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

Table 20

OCTOBER 2002

FEDERAL-STATE OPERATIONS

RUN DATE: November 14, 2002

FED BANKS XVC: 10/05/02 - 397 af is CVC Water for delivery of 391 af to AEWSO on behalf of Hills Valley, Tri Valley, Tulare Co, Lower Tule and Pixley.

FED BANKS XVC: 10/07/02 - 397 af is CVC Water for delivery of 391 af to AEWSO on behalf of Hills Valley, Tri Valley, Tulare Co, Lower Tule and Pixley.

FED BANKS XVC: 10/08/02 - 397 af is CVC Water for delivery of 391 af to AEWSO on behalf of Hills Valley, Tri Valley, Tulare Co, Lower Tule and Pixley.

FED BANKS XVC: 10/09/02 - 397 af is CVC Water for delivery of 391 af to AEWSO on behalf of Hills Valley, Tri Valley, Tulare Co, Lower Tule and Pixley.

FED BANKS XVC: 10/10/02 - 397 af is CVC Water for delivery of 391 af to AEWSO on behalf of Hills Valley, Tri Valley, Tulare Co, Lower Tule and Pixley.

FED BANKS XVC: 10/11/02 - 397 af is CVC Water for delivery of 391 af to AEWSO on behalf of Hills Valley, Tri Valley, Tulare Co, Lower Tule and Pixley.

FED BANKS XVC: 10/12/02 - 397 af is CVC Water for delivery of 391 af to AEWSO on behalf of Hills Valley, Tri Valley, Tulare Co, Lower Tule and Pixley.

FED BANKS XVC: 10/14/02 - 64 af is CVC Water for delivery of 58 af to AEWSO on behalf of Hills Valley, Tri Valley, Tulare Co, Lower Tule and Pixley.

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			113267
Delta-Mendota	254400	199820	256707	127398	52580	150595	267309	266195	254147	250896			2080047
Actual Fed Dos Amigos	40075	84854	72021	82879	110301	180906	198922	113099	38997	NA			922054
Madera	0	0	0	3783	27261	11145	63589	42905	12647	0			161330
Friant-Kern	11328	30796	29060	48191	87351	167312	169986	122791	67017	47465			781297
Coming	0	0	422	1745	2588	3632	3917	3578	2900	1827			20609
Folsom-South	1553	1553	1805	2289	2307	36181	2656	2594	2626	2684			56248
Sly Park - Camino Conduit	1097	908	774	1359	2204	2856	3685	3858	3598	2602			22941
Tehama-Colusa	0	1636	13446	19095	36871	59013	55502	37425	18078	10868			251934
CACHUMA PROJECT													
Tecolote Tunnel	1872	2225	2761	2875	3681	3397	3685	3597	2827	2467			29387
KLAMATH PROJECT													
"A" Canal Upper Klamath	0	0	NA	28420	27150	50840	55800	52190	17470	11860			243730
Klamath Drainage District	25120	7580	NA	11250	10002	11680	14700	15130	8820	7560			111842
Clear Lake Reservoir	0	0	NA	140	5730	7340	21110	9470	6300	0			50090
Gerber Reservoir	0	0	NA	800	6400	8060	9180	8170	6990	0			39600
Klamath River to Lost River	0	0	NA	6300	5000	21900	10450	3790	0	0			47440
ORLAND PROJECT													
Stony Creek	0	0	2432	15731	14641	18250	20608	18240	14529	9489			113920
South Canal	0	0	1682	10122	9526	12121	13892	12298	9388	6278			75307
North Canal	0	0	750	5609	5115	6129	6716	5942	5141	3211			38613
SOLANO PROJECT													
Putah South Canal	3319	2906	3669	17629	28007	36181	37450	31387	23078	11879			195505

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
Arvin-Edison WSD	2900	3616	133	2414	9625	3720	2546	1289	7523	6856			40622
Atwell Island WD	0	0	0	0	0	0	0	0	0	0			0
Delano-Earlimart ID	81	2459	8577	11882	16712	25850	26201	17597	10110	6672			126141
Exeter ID	22	34	53	701	971	1845	2674	2742	2146	1284			12472
City of Fresno	0	0	14	45	1652	24021	17203	17065	595	101			60696
County of Fresno SA #34	5	3	13	25	56	74	101	93	54	38			462
Fresno ID	11	131	0	0	0	200	0	5800	0	0			6142
Garfield WD	0	0	7	351	375	578	542	421	322	289			2885
Hills Valley ID	22	0	14	317	520	779	973	852	755	502			4734
International WD	0	108	0	116	162	212	289	261	208	176			1532
Ivanhoe ID	0	0	0	95	450	930	1406	1386	2229	1652			8148
Kaweah Delta WCD	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
Kern-Tulare WD	162	355	1330	2534	3864	4923	3744	3461	3380	2673			26426
Lewis Creek WD	0	0	0	0	0	12	27	41	24	16			120
Lindmore ID	0	0	227	1450	3929	6196	8303	8162	5795	3395			37457
City of Lindsay	122	102	142	193	259	268	323	313	264	198			2184
Lindsay-Strathmore ID	0		373	2525	542	3508	4254	4103	3310	2305			20920
Lower Tule River ID	824	396	0	0	13499	23213	26538	15405	0	0			79875
North-Kern WSD	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			1429
Orange Cove ID	298	38	112	1811	3321	4758	6065	6027	4437	3047			29914
Pixley ID	0	0	0	0	0	5151	8006	0	0	0			13157
Porterville ID	0	0	670	1000	2068	2702	3338	2492	935	455			13660
Rag Gulch WD	9	196	431	1013	1478	2195	1362	900	1364	674			9622
Rosedale Rio Bravo WSD	0	0	0	0	0	0	0	0	0	0			0
Saucelito ID	11	259	1883	2143	2649	4379	5221	4459	2640	1879			25523
Semitropic WSD	0	0	0	0	0	0	0	0	573	0			573
Shafter Wasco ID	1465	6869	2969	4791	5344	8286	8667	5687	3387	2821			50286
Southern San Joaquin MUD	401	6254	7790	10291	12151	17940	19294	13285	8643	6274			102323
Smallwood Vineyards	0	0	0	84	98	93	127	68	0	0			470
Stone Corral ID	70	6	68	823	977	1373	1835	1626	1115	649			8542
Strathmore PUD	30	24	29	41	51	67	75	72	57	45			491
Styro Tek, Inc.	0	1	1	1	2	2	0	0	0	0			7
Tea Pot Dome WD	0	48	0	358	765	1078	1233	1178	882	671			6213
Terra Bella ID	153	76	83	1414	2346	3175	3901	3773	2946	1975			19842
Tri-Valley WD	0	0	0	0	55	222	319	420	280	208			1504
Tulare ID	0	5045	0	0	0	17598	12357	5026	573	1570			42169
Total	6673	26108	25023	46526	84074	165531	167125	124193	64725	46563	0	0	756541

* 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			68113
Madera ID	0	0	0	1761	25557	25111	32083	13718	13452	0			111682
Soquel	0	0	0	0	0	0	0	8549	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			52
Fresno County # 18	5	5	7	12	18	19	6	24	16	15			127
Gravelly Ford WD	0	0	584	991	1834	878	1498	1140	1151	741			8817
Total	7	7	594	1007	1857	903	1512	1173	1174	762	0	0	8996

* 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			2508
Hughes, Melvin	0	26	0	0	0	33	25	12	0	0			96
James ID	0	1656	424	620	1182	7468	10447	9053	2231	731			33812
Laguna WD	0	0	0	0	0	0	0	0	0	0			0
Dudley & Indart	115	603	275	357	440	524	439	446	11	0			3210
Mid-Valley WD (no contract)	0	0	0	0	0	0	0	0	0	0			0
Reclamation 1606	0	0	74	50	99	111	66	55	0	52			507
Terra Linda (Goodman)	83	1093	631	502	752	1554	1823	1123	422	360			8343
Tranquility ID	0	4527	1474	1108	1500	7585	6676	3837	251	125			27083
Wilson, JW (no contract)	0	78	118	0	0	176	216	205	0	0			793
Total	198	8418	3144	2809	4291	17898	20254	15038	2927	1375	0	0	76352
Exchange Contractors													
Central California ID	394	24818	33909	27895	45403	71333	72020	64517	26035	22769			389093
Columbia Canal Co	0	3604	5613	5909	6185	10150	11078	9261	3886	2045			57731
Firebaugh Canal Co	952	2725	1548	3389	3700	4713	3950	3009	1533	843			26362
San Luis Canal Co	0	4287	13013	10968	12595	29580	31330	24816	8975	1978			137542
Total	1346	35434	54083	48161	67883	115776	118378	101603	40429	27635	0	0	610728
Refuges													
Grassland WD - 76.05L CCID #1-07-20-W1754	4836	10892	0	4938	0	6321	19038	9835	27259	100031			183150
US F&WS - Kesterson #00-WC-20-1647	0	11952	411	2320	3305	0	0	847	0	8590			27425
State F&WS - DWR #00-WC-20-1647 Kern National Wildlife	808	690	0	0	89	280	60	1096	3865	5163			12051
State F&G - Water Fowl Dist #1-07-20-W19756	1013	3979	597	450	1044	1686	1343	1109	6140	10728			28089
DFG Traction Ranch - Mendota Pool #14-06-200-7859Z	234	712	269	340	525	949	831	678	514	1275			6327
Total	6891	28225	1277	8048	4963	9236	21272	13565	37778	125787	0	0	257042

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			2667
Broadview WD	428	1829	919	639	961	3016	2765	1375	190	0			12122
CCID (Abv CK 13)	61	641	1389	1568	2273	2499	2349	2470	1412	740			15402
CCID (Blw CK 13)	309	1100	7885	6806	22443	17579	19402	19393	75	0			94992
Centinella WD	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			78874
DWR Intertie @MP7.70-R	0	0	0	0	0	0	0	0	0	0			0
Eagle Field WD	0	548	0	1	164	220	338	161	1	1			1434
Firebaugh Canal	192	2050	1701	1354	1679	8303	10320	7182	169	0			32950
Frietas Unit (76.05L)	0	0	720	845	355	382	254	0	0	50			2606
Mercy Springs WD	1	123	63	88	53	212	246	220	43	344			1393
Oro Loma WD	0	113	30	0	39	131	178	119	0	0			610
Panoche WD - Ag	51	341	344	372	636	1311	1741	1040	166	59			6061
Panoche WD - M&I	2	3	2	3	2	3	2	3	2	3			25
Patterson WD	0	0	55	313	911	874	1296	1085	805	448			5787
Plainview WD	0	13	30	482	474	632	654	643	374	271			3573
Salt Slough Unit (76.05L)	0	0	515	900	946	1154	977	783	0	0			5275
San Luis WD - Ag	355	1098	538	850	1022	2010	2244	1335	381	318			10151
San Luis WD - M&I	1	1	5	19	23	24	11	20	23	10			137
Tracy, City of	0	0	407	562	775	877	1042	1065	850	914			6492
West Side ID	6	0	0	0	112	270	430	252	0	0			1070
Widren	0	0	0	0	0	0	0	0	0	0			0
W. Stanislaus ID	0	984	2366	3913	3856	7458	9733	4428	2010	1588			36336
F&G - Los Banos Ref. 76.05L	0	0	1090	301	826	1064	969	1000	0	0			5250
Volta Wildlife Mgmt Area	0	113	0	521	50	466	450	841	1639	1909			5989
Grasslands -76.05L	4820	7408	0	1508	0	2906	6362	3981	15947	11961			54893
Grasslands - Volta	402	427	0	1848	1163	2107	937	2024	6314	13128			28350
F&S (Volta) Santa Fee Kest.	0	0	0	0	661	178	182	175	745	1282			3223
F&S - Kesterson 76.05L	0	0	0	504	0	0	0	0	0	0			504
Total DMC Deliveries	6684	18702	22377	33809	49450	70579	80644	61370	37281	38288	0	0	419184
Oneill Net Pumped	225493	93737	153351	22779	(92264)	(68180)	13457	65449	114244	120428			648494
DMC plus Oneill	232177	112439	175728	56588	(42814)	2399	94101	126819	151525	158716	0	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			2291
Broadview WD	1	1	0	2	2	3	4	3	4	4			24
City of Coalinga	280	241	234	472	434	586	591	638	460	748			4684
City of Dos Palos	66	65	84	118	149	171	185	166	119	146			1269
City of Huron	43	46	47	124	109	122	131	121	83	106			932
Pacheco WD	1	1	50	326	2	1274	2750	1276	443	90			6213
Pacheco CCID Non-project (Hamburg)	327	707	944	719	2003	923	0	0	0	0			5623
Panoche WD	2602	4828	3684	3144	5159	9967	13562	7286	927	825			51984
San Luis WD	1066	5700	5801	5111	7152	11711	14240	7326	2000	2863			62970
Westlands WD (Federal)	35134	74079	63941	75647	103758	167006	167011	104479	29857	40036			860948
Phase I (Non-chargeable)	0	8	0	0	0	0	0	0	3	0			11
Fish & Game (Lateral 4)	1	1	1	1	1	1	1	1	1	1			10
Fish & Game (Lateral 6)	51	0	0	0	0	0	0	0	0	0			51
Total	39784	85818	74960	85873	119025	192020	198753	121573	34115	45089	0	0	997010
O'NEILL FOREBAY DELIVERIES													
Oneill Forebay Wildlife	76	63	84	45	51	74	101	68	76	105			743
San Luis WD Ag	117	620	698	689	1233	1682	2112	1349	652	512			9664
San Luis M&I	28	22	32	44	53	62	70	69	48	57			485
VA Cemetary	2	2	3	7	6	7	10	8	6	9			60
Total	223	707	817	785	1343	1825	2293	1494	782	683	0	0	10952
CROSS VALLEY CANAL													
Arvin Edison WSD	0	0	0	0	0	0	8317	0	2719	4482			15518
Kern-Tulare	0	0	0	0	0	0	0	28582	10864	529			39975
Pixley ID	0	0	0	0	0	0	13763	26669	0	0			40432
Rag Gulch	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			113778
San Benito	323	1360	285	1650	2401	3733	3742	3368	3948	2542			23352
Total	9043	10666	9905	13875	16276	14320	15327	15271	14808	17639	0	0	137130

* 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			55462
Cortina WD	0	0	93	83	102	153	164	93	49	85			822
Davis WD	0	56	261	208	259	569	293	194	13	0			1853
Dunnigan WD	7	58	345	1595	2002	2948	3230	2334	1443	392			14354
4-M Water District	0	1	113	242	157	566	505	412	219	120			2335
GCID	0	0	2547	3237	3895	4700	4521	2988	1205	879			23972
Glenn Valley WD	0	13	39	73	207	111	110	171	35	0			759
Glide WD	0	0	161	1429	3265	3514	3234	2604	471	234			14912
Holthouse WD	0	0	53	99	287	329	350	254	162	88			1622
Kanawha WD	0	9	1438	4887	4157	7515	7068	4424	1745	304			31547
Kirkwood WD	0	0	0	85	119	209	219	235	123	46			1036
La Grande WD	0	0	22	1011	813	1436	1129	789	183	102			5485
Myers-Marsh MWC	0	0	0	20	36	20	45	0	0	0			121
Orland-Artois WD	45	120	1859	6375	9707	13843	13968	9458	6090	2694			64159
Westside WD	2	296	2187	4210	6693	9826	6705	4299	1811	939			36968
Total	131	792	12172	29691	38929	56636	52436	36155	18804	9661	0	0	255407

Table 28

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

Monthly Deliveries in AF

Sacramento River
2002

Water Users	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
A&F Boeger Corp & Thunder Farms	0	0	0	0	362	559	588	419	0	0			1928
Anderson Cottonwood ID	0	0	0	6829	18955	19427	21483	20813	18382	7448			113337
Andreotti, Arthur, et al	0	0	0	321	483	622	648	559	80	0			2713
Baber, Jack, et	0	0	0	0	105	252	492	118	0	0			967
A&R Farms (Odysseus)	0	0	0	1	15	45	92	24	4	0			181
Cannel, Fred	0	0	0	154	320	181	33	38	170	0			896
Carter, Jane	0	0	0	0	0	227	295	185	0	124			831
Colusa Prop. Inc	0	0	0	0	0	354	143	37	0	70			604
Conaway Conservancy Group	0	0	0	1304	9545	10043	6675	5401	700	4493			38161
Davis, Olive P, et al	0	0	0	3559	5144	6816	7439	4512	83	0			27553
Deseret Farms of Calif	0	0	0	58	168	258	222	83	0	0			789
Dommer, Elizabeth	0	0	0	0	2	2	2	0	2	0			8
Forry, David G, et al	0	0	0	133	196	358	386	322	120	0			1515
Forster, Rosemary	0	0	0	45	624	759	831	638	534	0			3431
Furlan Joint Venture (Area #1)	0	0	0	32	121	78	93	2	0	0			326
Furlan Joint Venture (Area #2)	0	0	0	0	0	0	0	0	0	0			0
Glenn-Colusa ID	0	0	0	103436	121302	154963	147354	112775	29529	61562			730921
Griffin, J, et al	0	0	0	142	498	623	681	303	92	0			2339
Henle Family Limited Partnership	0	0	0	0	0	56	29	0	0	0			85
Hershey Land Co	0	0	0	0	0	0	0	0	0	0			0
Hiatt, Glenn	0	0	0	0	252	220	248	81	0	0			801
Hollins, Mariette B	0	0	0	65	131	235	263	179	18	10			901
Howald Farms	0	0	0	124	239	311	331	270	2	0			1277
King, Barbara	0	0	0	0	3	2	2	0	0	0			7
Knaggs Walnut Ranches Co, L.P.	0	0	0	0	87	68	0	0	0	0			155
Lockett, William P.	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			3974
M&T Inc.	0	0	0	264	2405	1839	2028	2037	99	1437			10109
MCM Properties, Inc	0	0	0	0	59	79	78	22	0	0			238
Maxwell ID	0	0	0	1146	2410	1706	0	0	0	2648			7910
Meridan Farms WC	0	0	0	2224	5807	6618	7142	5490	629	299			28209
Natomas Central MWC	0	0	0	5104	19869	21247	21815	13026	6551	416			88028
O'Brien, Janice	0	0	0	229	4	111	181	130	3	0			658
Oji Bros. Farms Inc	0	0	0	52	576	867	581	332	0	0			2408
Oji, Mitsue Family PTN	0	0	0	134	689	1207	381	409	0	0			2820
Pelger Mutual WC	0	0	0	541	1444	1559	1195	709	0	825			6273
Pleasant Grove-Verona MWC	0	0	0	799	3576	4143	4278	3418	163	538			16915
Princeton,-Codora-Glenn ID	0	0	0	7678	10605	12648	13747	10136	2831	5084			62729
Provident Irrigation District	0	0	0	8233	6130	12635	11465	3315	38	3554			45370
Reclamation Dist #108	0	0	0	14747	35339	40296	38707	20626	3721	9883			163319
Reclamation Dist #1004	0	0	0	5502	11856	14845	15104	9213	3555	13930			74005
Reynen, John, et al	0	0	0	378	1398	1643	1627	866	1	261			6174
River Garden Farms	0	0	0	146	3649	6097	5684	4180	1382	555			21693
Roberts Ditch Irrigation Co	0	0	0	408	558	783	981	737	128	54			3649
Sartain Mutual WC	0	0	0	38	446	354	404	227	0	196			1665
Siddiqui, J & A & Siddiqui Family Plan	0	0	0	23	71	12	58	37	33	49			283
Spence, Ruth Ann	0	0	0	0	0	0	0	0	0	0			0
Sutter Mutual WC	0	0	0	15717	36609	40489	44184	35167	8039	1290			181495
Swinford Tract Irrigation Co	0	0	0	0	29	27	6	22	0	0			84
Tarke, James, et al	0	0	0	0	36	43	37	32	5	0			153
Tisdale Irrigation & Drain	0	0	0	502	1497	1522	1950	1620	364	0			7455
Wallace Construction, Inc.	0	0	0	143	0	545	217	0	0	0			905
Wells, Joyce M	0	0	0	70	141	311	349	238	23	0			1132
Wilson Ranch Partnership	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			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		
At Keswick	6960	4148	5292	5526	9346	12756	14603	10909	7690	6959		
At Bend Bridge	15587	8270	8142	7098	10050	12824	14353	10963	7851	7360		
At Vina Bridge	19635	8871	8917	7130	9294	11741	13463	9839	6811	6525		
At Ord Ferry	22050	7441	7746	3278	5637	7332	9060	6094	3727	2710		
At Colusa	20772	10171	10148	6353	7493	8520	9828	8125	6555	5220		
Below Wilkins Slough	18180	10576	10620	6094	6679	7268	8691	7568	6802	5402		
At Verona	34138	14345	15958	9478	9145	10217	14700	14141	10928	7380		
Sacramento at "I" Street	36687	15849	18823	13036	11394	12326	17439	15661	12209	8828		
Miscellaneous Stations												
Folsom computed inflow	3901	3822	4936	4573	3998	2217	1245	1297	1295	958		
American R at Nimbus Dam	1460	1503	2897	3640	2607	2665	3306	1944	1502	1508		
Kings River at Pine Flat	95	602	1017	1618	3176	6039	5660	2036	268	148		
San Joaquin River												
At Friant Dam	93	95	124	159	176	189	231	208	208	175		
Near Vernalis	2920	2191	2411	2823	3032	1753	1597	1461	1468	1902		
Putah Creek												
Berryessa computed inflow	1874	358	348	99	37	0	0	0	17	0		
Putah Creek - Lake Solano	45	16	34	47	43	43	43	34	20	20		
Stanislaus River												
New Melones computed inflow	1062	779	1440	1804	1639	935	783	743	725	699		
At Tulloch Dam	319	499	902	2184	2251	1965	2077	1804	1415	624		
At Orange Blossom	247	319	338	712	602	317	329	185	164	224		

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