# UNITED STATES DEPARTMENT OF THE INTERIOR
# BUREAU OF RECLAMATION

## CENTRAL VALLEY OPERATIONS OFFICE

## REPORT OF OPERATIONS

July 2003

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SUMMARY OF JULY 2003 OPERATIONS

Sacramento had an average monthly temperature of 81.6 $^{o}$F which was 4.2 $^{o}$F above normal. The average temperature at Shasta Dam was 84.8 $^{o}$F which was 3.6 $^{o}$F above normal and Huntington Lake was 9.9 $^{o}$F above normal with an average temperature of 70.6 $^{o}$F.

Trinity System: Storage in Trinity Lake decreased 114,700 acre-feet this month to 2,252,000 acre-feet, which is 92 percent of capacity and 124 percent of the 15 year average for this date. The total inflow for the month was 56,738 acre-feet. The Trinity River release ranged between 450 to 2,000 $ft^3/s$. Whiskeytown Lake was operated between elevations 1208.60 feet and 1209.18 feet with an end-of-month storage of 238,100 acre-feet. The releases to Clear Creek from Whiskeytown Dam were 90 $ft^3/s$. Total diversion from the Trinity River to the Sacramento River watershed for the month was 98,380 acre-feet.

Shasta-Keswick: Storage in Shasta Lake decreased 540,900 acre-feet for an end-of-month storage of 3,547,200 acre-feet, which is 78 percent of capacity and 115 percent of the 15 year average. The total inflow for the month was 247,045 acre-feet. The release to the Sacramento River at Keswick ranged between 11,500 and 15,000 $ft^3/s$ for the month.

Folsom-Nimbus: Storage in Folsom Lake decreased 123,700 acre-feet and had an end-of-month storage of 800,100 acre-feet, which is 82 percent of capacity and 131 percent of the 15 year average for this date. The total inflow for the month was 119,159 acre-feet. The release to the American River at Nimbus ranged between 2,500 and 4,500 $ft^3/s$ during the month.

New Melones: Storage in New Melones decreased 78,600 acre-feet for an end-of-month storage of 1,368,800 acre-feet or 57 percent of capacity and 106 percent of the 15 year average. The release to the Stanislaus River at Goodwin Dam ranged between 300 to 650 $ft^3/s$ for the month. The total inflow for the month was 59,108 acre-feet.

Delta-San Luis: Federal storage in San Luis Reservoir on July 31, 2003, was 396,000 acre-feet compared to the storage a year ago of 247,000 acre-feet.

Friant: Storage in Millerton Lake decreased 138,370 acre-feet to 344,900 acre-feet. The total monthly inflow was 146,009 acre-feet. The release to the San Joaquin River at Friant varied between 244 and 257 $ft^3/s$.

CVP Totals: The total diversions to CVP canals were 605,383 acre-feet. The July 31, 2003, storage in the 18 CVP reservoirs was 8,364,000 acre-feet compared to storage 1 year ago of 7,111,000 acre-feet.

Power: Gross power production for the CVP totaled 704,849,800 kilowatt-hours.

**UNITED STATES**
**DEPARTMENT OF THE INTERIOR**
**BUREAU OF RECLAMATION**
**MID-PACIFIC REGION**

Table 1

**MONTHLY RESERVOIR STORAGE SUMMARY IN ACRE-FEET**
(PRELIMINARY DATA SUBJECT TO REVISION)

| WATERSHED | RESERVOIR | TOTAL CAPACITY | 07/31/03 | 07/31/02 |
|---|---|---|---|---|
| KLAMATH | CLEAR LAKE * | 526,800 | 99,480 | 140,610 |
| | GERBER * | 94,300 | 29,700 | 31,530 |
| | UPR KLAMATH LK * | 873,300 | 285,900 | 246,960 |
| TRINITY | CLAIR ENGLE LK*CVP | 2,447,700 | 2,251,990 | 1,759,690 |
| | LEWISTON LAKE*CVP | 14,660 | 13,980 | 14,310 |
| | WHISKEYTOWN *CVP | 241,100 | 238,060 | 238,280 |
| MCCLOUD | MCCLOUD DIV. RES | 35,230 | 29,170 | 30,330 |
| PIT | IRON CANYON | 24,240 | 16,510 | 19,090 |
| | LAKE BRITTON | 40,620 | 35,500 | 38,200 |
| | PIT NO. 6 | 15,890 | 14,500 | 13,730 |
| | PIT NO. 7 | 34,610 | 32,670 | 32,620 |
| SACRAMENTO | SHASTA LAKE *CVP | 4,552,000 | 3,547,160 | 3,102,920 |
| | SPRING CREEK *CVP | 5,900 | 660 | 830 |
| | KESWICK *CVP | 23,800 | 22,660 | 22,450 |
| | RED BLUFF DIV *CVP | 3,920 | 630 | 3,920 |
| FEATHER | OROVILLE | 3,538,000 | 2,851,910 | 1,883,130 |
| | THERMALITO DIV RES | 13,500 | 13,050 | 12,780 |
| | THERMALITO FORE. | 14,400 | 10,470 | 10,580 |
| | THERMALITO AFTER. | 57,000 | 33,560 | 33,660 |
| | LAKE ALMANOR | 1,143,000 | 975,840 | 879,530 |
| STONY CREEK | EAST PARK * | 50,900 | 46,480 | 11,430 |
| | STONY GORGE * | 50,000 | 49,800 | 27,390 |
| | BLACK BUTTE *CVP | 143,700 | 92,540 | 64,950 |
| PUTAH CREEK | LAKE BERRYESSA * | 1,602,300 | 1,505,890 | 1,360,730 |
| | LAKE SOLANO * | 720 | 620 | 680 |
| YUBA | BULLARDS BAR | 930,000 | 794,090 | 651,270 |
| | SO. YUBA SYSTEM | 146,000 | 93,810 | 97,780 |
| | NARROWS | 70,000 | 65,390 | 64,510 |
| BEAR | ROLLINS | 65,990 | 65,490 | 65,250 |
| LITTLE TRUCKEE | STAMPEDE * | 226,620 | 148,070 | 113,800 |
| | BOCA * | 41,140 | 31,060 | 39,800 |
| PROSSER | PROSSER CREEK * | 29,840 | 26,940 | 20,200 |
| TRUCKEE | LAKE TAHOE * | 732,000 | 244,240 | 206,500 |
| | RYE PATCH * | 190,000 | NA | 19,700 |
| HUMBOLDT | | | | |
| CARSON | LAHONTAN * | 317,280 | NA | 165,000 |
| | TWIN LAKES | 21,600 | 22,530 | 21,590 |
| | FRENCH MEADOWS | 136,400 | 119,070 | 110,340 |
| AMERICAN | HELL HOLE | 207,590 | 187,350 | 139,310 |
| | LOON LAKE | 76,500 | 64,210 | 69,070 |
| | ICE HOUSE | 46,000 | 40,880 | 42,790 |
| | UNION VALLEY | 277,300 | 232,310 | 245,760 |
| | SLAB CREEK | 16,600 | 13,360 | 15,490 |

| WATERSHED | RESERVOIR | TOTAL CAPACITY | 07/31/03 | 07/31/02 |
|---|---|---|---|---|
| AMERICAN | FOLSOM LAKE *CVP | 1,010,300 | 800,120 | 610,360 |
| | LAKE NATOMA *CVP | 9,030 | 8,310 | 8,270 |
| COSUMNES | JENKINSON LK *CVP | 41,000 | 35,820 | 35,950 |
| | CAMANCHE | 431,500 | 324,250 | 263,970 |
| MOKELUMNE | PARDEE | 210,000 | 194,810 | 191,200 |
| | SALT SPRINGS | 140,000 | 131,950 | 121,470 |
| CALAVERAS | NEW HOGAN | 317,100 | 132,510 | 150,030 |
| | NEW MELONES*CVP | 2,420,000 | 1,368,770 | 1,391,280 |
| | BEARDSLEY | 97,800 | 95,580 | 84,370 |
| STANISLAUS | DONNELLS | 64,320 | 53,720 | 58,690 |
| | TULLOCH | 67,000 | 65,500 | 64,920 |
| | LAKE ELEANOR | 26,100 | 23,450 | 25,310 |
| | LAKE LLOYD | 268,000 | 263,710 | 253,340 |
| TUOLUMNE | HETCH-HETCHY | 360,400 | 346,460 | 338,510 |
| | NEW DON PEDRO | 2,030,000 | 1,698,180 | 1,425,190 |
| | TURLOCK LAKE | 49,000 | 32,460 | 30,300 |
| MERCED | EXCHEQUER | 1,024,600 | 574,150 | 467,080 |
| CHOWCHILLA | BUCHANAN | 150,000 | 18,980 | 16,310 |
| | CRANE VALLEY | 45,400 | 43,300 | 42,120 |
| | LAKE T.A. EDISON | 125,000 | 104,330 | 89,900 |
| | FLORENCE LAKE | 64,600 | 39,860 | 51,540 |
| SAN JOAQUIN | MAMMOTH POOL | 122,700 | 81,660 | 95,330 |
| | HUNTINGTON LAKE | 89,800 | 86,860 | 87,640 |
| | REDINGER LAKE | 35,000 | 3,920 | 24,580 |
| | SHAVER LAKE | 135,400 | 134,200 | 118,100 |
| | MILLERTON LK *CVP | 520,500 | 344,910 | 298,250 |
| FRESNO | HIDDEN | 90,000 | 25,570 | 16,310 |
| | SAN LUIS **CVP | 2,040,600 | 918,350 | 646,890 |
| | O'NEILL FORE.**CVP | 56,400 | 46,180 | 53,000 |
| SAN LUIS | L BANOS RES**CVP | 34,560 | 19,720 | 19,520 |
| | LT PANOCHE **CVP | 5,580 | 710 | 730 |
| OIL CANYON | CONTRA LOMA *CVP | 2,100 | 2,060 | 2,040 |
| KINGS | WISHON | 128,300 | 108,500 | 61,550 |
| | PINE FLAT | 1,001,500 | 368,040 | 200,560 |
| KAWEAH | TERMINUS | 143,000 | 14,340 | 29,750 |
| TULE | SUCCESS | 82,300 | 30,090 | 20,030 |
| KERN | ISABELLA | 588,100 | 249,630 | 132,190 |
| CUYAMA | TWITCHELL * | 240,100 | NR | 5,160 |
| SANTA YNEZ | LAKE CACHUMA * | 190,500 | 124,250 | 145,400 |
| COYOTE | LAKE CASITAS * | 254,000 | 189,989 | 205,910 |
| **TOTAL - 85 RESERVOIRS** | | 33,790,040 | 23,452,729 | 19,951,540 |
| **TOTAL - 36 RESERVOIRS** | | 18,992,650 | 12,495,049 | 11,014,440 |
| **TOTAL - 18 RESERVOIRS** | | 13,572,850 | 9,712,630 | 8,273,640 |

**** - Joint State-Federal Reservoir** *** - USBR Reservoir** **CVP - Central Valley Project** **NR - Not Reported**

Central Valley Project

**Table 2**

## Plant Generation and Energy Summary for 2003

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Generation in mwh*** | | | | | | | | | | | | | |
| **Shasta** | | | | | | | | | | | | | |
| Gross | 278597 | 175909 | 62560 | 134213 | 310672 | 282701 | 315692 | | | | | | 1,560,344 |
| Net | 278111 | 175634 | 62415 | 134148 | 310579 | 282579 | 315526 | | | | | | 1,558,992 |
| **Keswick** | | | | | | | | | | | | | |
| Gross | 55128 | 38974 | 19917 | 28206 | 57454 | 54658 | 57746 | | | | | | 312,083 |
| Net | 54975 | 38787 | 19787 | 27923 | 57320 | 54532 | 57618 | | | | | | 310,942 |
| **Trinity** | | | | | | | | | | | | | |
| Gross | 5793 | 30013 | 31356 | 18379 | 86019 | 87879 | 64914 | | | | | | 324,353 |
| Net | 5503 | 29837 | 31166 | 18200 | 85820 | 87748 | 64799 | | | | | | 323,073 |
| **JF Carr** | | | | | | | | | | | | | |
| Gross | 1299 | 36119 | 33295 | 15518 | 44017 | 56560 | 50310 | | | | | | 237,118 |
| Net | 1158 | 35993 | 33208 | 15440 | 43866 | 56446 | 50222 | | | | | | 236,333 |
| **Spring Creek PP** | | | | | | | | | | | | | |
| Gross | 40240 | 41694 | 45430 | 23752 | 58145 | 55387 | 47246 | | | | | | 311,894 |
| Net | 40073 | 41552 | 45293 | 23628 | 58003 | 55259 | 47132 | | | | | | 310,940 |
| **Folsom** | | | | | | | | | | | | | |
| Gross | 43899 | 62787 | 32736 | 34784 | 96407 | 72312 | 62073 | | | | | | 404,998 |
| Net | 43692 | 62621 | 32554 | 34616 | 96234 | 72107 | 61880 | | | | | | 403,704 |
| **Nimbus** | | | | | | | | | | | | | |
| Gross | 5709 | 7685 | 4185 | 4071 | 9870 | 7518 | 7110 | | | | | | 46,148 |
| Net | 5668 | 7644 | 4142 | 4049 | 9851 | 7494 | 7099 | | | | | | 45,947 |
| **New Melones** | | | | | | | | | | | | | |
| Gross | 6308 | 12196 | 30784 | 44387 | 52957 | 67830 | 55169 | | | | | | 269,631 |
| Net | 6213 | 12101 | 30680 | 44253 | 52813 | 67671 | 55018 | | | | | | 268,749 |
| **O"Neill** | | | | | | | | | | | | | |
| Gross | 0 | 0 | 0 | 523 | 2016 | 102 | 501 | | | | | | 3,142 |
| Net | 0 | 0 | 0 | 435 | 2022 | 7 | 308 | | | | | | 2,772 |
| **Fed San Luis** | | | | | | | | | | | | | |
| Out Meter | 0 | 0 | 0 | 17820 | 0 | 14257 | 44089 | | | | | | 76,166 |
| **Gross Generation** | 436,973 | 405,377 | 260,263 | 321,653 | 717,557 | 699,204 | 704,850 | 0 | 0 | 0 | 0 | 0 | 3,545,877 |
| **Net Generation** | 435,393 | 404,169 | 259,245 | 320,512 | 716,508 | 698,100 | 703,691 | 0 | 0 | 0 | 0 | 0 | 3,537,618 |
| **Stampede (Gross)** | 398 | 1,075 | 312 | 2,045 | 2,311 | 949 | 1,579 | | | | | | 8,669 |
| **Stampede (Net)** | 371 | 1,046 | 288 | 2,016 | 2,290 | 939 | 1,565 | | | | | | 8,515 |
| ***Energy in mwh*** | | | | | | | | | | | | | |
| **Tracy** | | | | | | | | | | | | | |
| Tot Energy | 61295 | 54825 | 61731 | 24949 | 20517 | 60303 | 59314 | | | | | | 342,934 |
| Fed Off-Pk | 29012 | 25474 | 29228 | 12274 | 9188 | 28879 | 28189 | | | | | | 162,244 |
| **O'Neill** | | | | | | | | | | | | | |
| Tot Energy | 12985 | 7203 | 9849 | 2869 | 341 | 2668 | 501 | | | | | | 36,416 |
| Fed Off-Pk | 6183 | 3393 | 4698 | 1381 | 117 | 1336 | 256 | | | | | | 17,364 |
| **San Luis** | | | | | | | | | | | | | |
| Fed Energy | 61979 | 32737 | 54490 | 2299 | 36 | 124 | 132 | | | | | | 151,797 |
| Fed Off-Pk | 60284 | 32707 | 54415 | 2224 | 36 | 79 | 102 | | | | | | 149,847 |
| **Dos Amigos** | | | | | | | | | | | | | |
| Fed Energy | 6543 | 12352 | 10650 | 12771 | 12180 | 15096 | 32814 | | | | | | 102,406 |
| Fed Off-Pk | 5295 | 8316 | 7635 | 8190 | 8475 | 9771 | 18384 | | | | | | 66,066 |
| **Banks - Fed** | | | | | | | | | | | | | |
| Fed Energy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | 0 |
| Fed Off-Pk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | 0 |
| **Total Energy** | 142,802 | 107,117 | 136,720 | 42,888 | 33,074 | 78,191 | 92,761 | 0 | 0 | 0 | 0 | 0 | 633,553 |
| **Total Fed Off-Pk** | 100,774 | 69,890 | 95,976 | 24,069 | 17,816 | 40,065 | 46,931 | 0 | 0 | 0 | 0 | 0 | 395,521 |

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

## JULY 2003 — SHASTA LAKE DAILY OPERATIONS

RUN DATE: March 12, 2004

| DAY | ELEV | STORAGE 1000 ACRE-FEET IN LAKE | CHANGE | COMPUTED* INFLOW C.F.S. | RELEASE - C.F.S. POWER | RIVER SPILL | OUTLET | EVAPORATION C.F.S. | INCHES | PRECIP INCHES |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 4,088.1 | | | | | | | | |
| 1 | 1,050.40 | 4,074.2 | -13.9 | 3,666 | 10,396 | 0 | 0 | 269 | .33 | .00 |
| 2 | 1,049.91 | 4,060.6 | -13.6 | 4,059 | 10,586 | 0 | 0 | 326 | .40 | .00 |
| 3 | 1,049.47 | 4,048.5 | -12.2 | 4,409 | 10,223 | 0 | 0 | 317 | .39 | .00 |
| 4 | 1,048.92 | 4,033.3 | -15.2 | 3,934 | 11,299 | 0 | 0 | 292 | .36 | .00 |
| 5 | 1,048.30 | 4,016.2 | -17.1 | 2,903 | 11,201 | 0 | 0 | 299 | .37 | .00 |
| 6 | 1,047.79 | 4,002.2 | -14.0 | 4,277 | 11,028 | 0 | 0 | 307 | .38 | .00 |
| 7 | 1,047.29 | 3,988.5 | -13.7 | 4,370 | 10,948 | 0 | 0 | 322 | .40 | .00 |
| 8 | 1,046.77 | 3,974.3 | -14.2 | 4,900 | 11,733 | 0 | 0 | 329 | .41 | .00 |
| 9 | 1,046.23 | 3,959.6 | -14.7 | 4,756 | 11,894 | 0 | 0 | 280 | .35 | .00 |
| 10 | 1,045.64 | 3,943.6 | -16.0 | 4,806 | 12,559 | 0 | 0 | 328 | .41 | .00 |
| 11 | 1,045.06 | 3,927.9 | -15.7 | 5,129 | 12,747 | 0 | 0 | 311 | .39 | .00 |
| 12 | 1,044.36 | 3,909.0 | -18.9 | 2,976 | 12,201 | 0 | 0 | 302 | .38 | .00 |
| 13 | 1,043.72 | 3,891.7 | -17.2 | 3,786 | 12,150 | 0 | 0 | 325 | .41 | .00 |
| 14 | 1,043.15 | 3,876.4 | -15.3 | 4,411 | 11,797 | 0 | 0 | 332 | .42 | .00 |
| 15 | 1,042.48 | 3,858.5 | -17.9 | 4,848 | 13,555 | 0 | 0 | 331 | .42 | .00 |
| 16 | 1,041.77 | 3,839.5 | -18.9 | 4,243 | 13,498 | 0 | 0 | 298 | .38 | .00 |
| 17 | 1,041.08 | 3,821.2 | -18.4 | 4,011 | 12,983 | 0 | 0 | 282 | .36 | .00 |
| 18 | 1,040.41 | 3,803.4 | -17.7 | 4,562 | 13,180 | 0 | 0 | 328 | .42 | .00 |
| 19 | 1,039.66 | 3,783.6 | -19.9 | 3,421 | 13,100 | 0 | 0 | 334 | .43 | .00 |
| 20 | 1,038.94 | 3,764.5 | -19.1 | 3,723 | 13,009 | 0 | 0 | 325 | .42 | .00 |
| 21 | 1,038.37 | 3,749.5 | -15.0 | 4,099 | 11,317 | 0 | 0 | 356 | .46 | .00 |
| 22 | 1,037.59 | 3,729.0 | -20.5 | 3,752 | 13,774 | 0 | 0 | 316 | .41 | .00 |
| 23 | 1,036.82 | 3,708.8 | -20.2 | 3,803 | 13,666 | 0 | 0 | 307 | .40 | .00 |
| 24 | 1,036.15 | 3,691.3 | -17.5 | 4,019 | 12,576 | 0 | 0 | 260 | .34 | .10 |
| 25 | 1,035.41 | 3,672.1 | -19.2 | 3,553 | 13,139 | 0 | 0 | 114 | .15 | .00 |
| 26 | 1,034.71 | 3,653.9 | -18.1 | 4,725 | 13,614 | 0 | 0 | 258 | .34 | .00 |
| 27 | 1,033.81 | 3,630.7 | -23.2 | 1,922 | 13,335 | 0 | 0 | 303 | .40 | .00 |
| 28 | 1,033.01 | 3,610.1 | -20.6 | 3,399 | 13,486 | 0 | 0 | 287 | .38 | .00 |
| 29 | 1,032.16 | 3,588.4 | -21.8 | 4,352 | 14,996 | 0 | 0 | 323 | .43 | .00 |
| 30 | 1,031.36 | 3,568.0 | -20.4 | 4,073 | 14,017 | 0 | 0 | 337 | .45 | .00 |
| 31 | 1,030.54 | 3,547.2 | -20.8 | 3,630 | 13,822 | 0 | 0 | 306 | .41 | .00 |
| **TOTALS** | | | **-540.9** | **124,517** | **387,829** | **0** | **0** | **9,404** | **12.00** | **.10** |
| **ACRE-FEET** | | | **-540,900** | **246,979** | **769,259** | **0** | **0** | **18,653** | | |

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

## SUMMARY

RELEASE (ACRE-FEET)

| | | | |
|---|---|---|---|
| POWER | 769,259 | OUTLET | 0 |
| SPILL | 0 | TOTAL | 769,259 |

PRECIPITATION

| | |
|---|---|
| THIS MONTH = | .10 |
| JULY 1, 2003 TO DATE = | .10 |

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

## JULY 2003 — TRINITY LAKE DAILY OPERATIONS

RUN DATE: March 12, 2004

| DAY | ELEV | STORAGE 1000 ACRE-FEET IN LAKE | CHANGE | COMPUTED* INFLOW C.F.S. | RELEASE - C.F.S. POWER | SPILL | OUTLET | EVAPORATION C.F.S. | INCHES (1) | PRECIP INCHES (1) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 2,366.7 | | | | | | | | |
| 1 | 2,364.81 | 2,363.1 | -3.5 | 1,289 | 2,906 | 0 | 0 | 160 | .34 | .00 |
| 2 | 2,364.60 | 2,359.8 | -3.4 | 1,278 | 2,841 | 0 | 0 | 132 | .28 | .00 |
| 3 | 2,364.38 | 2,356.3 | -3.5 | 1,295 | 2,930 | 0 | 0 | 141 | .30 | .00 |
| 4 | 2,364.16 | 2,352.7 | -3.5 | 1,291 | 2,926 | 0 | 0 | 141 | .30 | .00 |
| 5 | 2,363.95 | 2,349.4 | -3.4 | 1,263 | 2,815 | 0 | 0 | 141 | .30 | .00 |
| 6 | 2,363.74 | 2,346.0 | -3.3 | 1,334 | 2,869 | 0 | 0 | 150 | .32 | .00 |
| 7 | 2,363.51 | 2,342.4 | -3.7 | 1,077 | 2,772 | 0 | 0 | 150 | .32 | .00 |
| 8 | 2,363.26 | 2,338.4 | -4.0 | 1,128 | 2,966 | 0 | 0 | 168 | .36 | .00 |
| 9 | 2,362.91 | 2,332.8 | -5.6 | 1,222 | 3,895 | 0 | 0 | 131 | .28 | .00 |
| 10 | 2,362.55 | 2,327.1 | -5.7 | 1,162 | 3,893 | 0 | 0 | 140 | .30 | .00 |
| 11 | 2,362.20 | 2,321.6 | -5.5 | 1,030 | 3,673 | 0 | 0 | 149 | .32 | .00 |
| 12 | 2,361.81 | 2,315.4 | -6.2 | 920 | 3,874 | 0 | 0 | 148 | .32 | .00 |
| 13 | 2,361.43 | 2,309.5 | -6.0 | 829 | 3,689 | 0 | 0 | 153 | .33 | .00 |
| 14 | 2,361.08 | 2,304.0 | -5.5 | 932 | 3,555 | 0 | 0 | 152 | .33 | .00 |
| 15 | 2,360.90 | 2,301.1 | -2.8 | 599 | 1,878 | 0 | 0 | 143 | .31 | .00 |
| 16 | 2,360.76 | 2,299.0 | -2.2 | 986 | 1,943 | 0 | 0 | 147 | .32 | .00 |
| 17 | 2,360.57 | 2,296.0 | -3.0 | 1,096 | 2,447 | 0 | 0 | 147 | .32 | .00 |
| 18 | 2,360.37 | 2,292.9 | -3.1 | 1,168 | 2,597 | 0 | 0 | 147 | .32 | .00 |
| 19 | 2,360.13 | 2,289.1 | -3.8 | 621 | 2,375 | 0 | 0 | 138 | .30 | .00 |
| 20 | 2,360.00 | 2,287.1 | -2.0 | 651 | 1,515 | 0 | 0 | 160 | .35 | .00 |
| 21 | 2,359.84 | 2,284.6 | -2.5 | 1,071 | 2,202 | 0 | 0 | 124 | .27 | .00 |
| 22 | 2,359.68 | 2,282.1 | -2.5 | 1,020 | 2,133 | 0 | 0 | 142 | .31 | .00 |
| 23 | 2,359.55 | 2,280.1 | -2.0 | 797 | 1,657 | 0 | 0 | 160 | .35 | .00 |
| 24 | 2,359.34 | 2,276.8 | -3.3 | 863 | 2,342 | 0 | 0 | 169 | .37 | .01 |
| 25 | 2,359.08 | 2,272.8 | -4.0 | 369 | 2,303 | 0 | 0 | 105 | .23 | .00 |
| 26 | 2,358.86 | 2,269.3 | -3.4 | 639 | 2,201 | 0 | 0 | 160 | .35 | .00 |
| 27 | 2,358.57 | 2,264.8 | -4.5 | 465 | 2,568 | 0 | 0 | 164 | .36 | .00 |
| 28 | 2,358.40 | 2,262.2 | -2.6 | 436 | 1,615 | 0 | 0 | 150 | .33 | .00 |
| 29 | 2,358.21 | 2,259.3 | -2.9 | 723 | 2,053 | 0 | 0 | 155 | .34 | .00 |
| 30 | 2,358.00 | 2,256.0 | -3.3 | 841 | 2,337 | 0 | 0 | 146 | .32 | .00 |
| 31 | 2,357.74 | 2,252.0 | -4.0 | 210 | 2,072 | 0 | 0 | 164 | .36 | .00 |
| **TOTALS** | | | **-114.7** | **28,605** | **81,842** | **0** | **0** | **4,577** | **9.91** | **.01** |
| **ACRE-FEET** | | | **-114,700** | **56,738** | **162,334** | **0** | **0** | **9,078** | | |

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 | 162,334 | OUTLET | 0 | THIS MONTH = | .01 |
| SPILL | 0 | TOTAL | 162,334 | JULY 1, 2003 TO DATE = | .01 |

UNITED STATES DEPARTMENT OF THE INTERIOR
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## JULY 2003 — WHISKEYTOWN LAKE DAILY OPERATIONS

RUN DATE: March 11, 2004

| DAY | ELEV | STORAGE 1000 ACRE-FEET IN LAKE | CHANGE | COMPUTED INFLOW C.F.S. * | FROM JUDGE FRANCIS CARR PP | CLEAR CR. NATURAL FLOW | RELEASE - C.F.S. TO CLEAR CR (1) OUTLETS | SPILL | TO SPRING CR. PP | EVAP. C.F.S. | EVAP. INCHES | PRECIP INCHES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 237.8 | | | | | | | | | | |
| 1 | 1,209.11 | 238.2 | +0.4 | 1,192 | 1,148 | 44 | 90 | 0 | 867 | 25 | .27 | .00 |
| 2 | 1,209.11 | 238.2 | +0.0 | 1,078 | 1,038 | 40 | 90 | 0 | 964 | 24 | .26 | .00 |
| 3 | 1,209.13 | 238.3 | +0.1 | 1,141 | 1,094 | 47 | 90 | 0 | 986 | 33 | .35 | .00 |
| 4 | 1,209.16 | 238.4 | +0.1 | 1,124 | 1,082 | 42 | 90 | 0 | 954 | 32 | .34 | .00 |
| 5 | 1,209.18 | 238.5 | +0.1 | 1,111 | 1,077 | 34 | 90 | 0 | 974 | 15 | .16 | .00 |
| 6 | 1,209.18 | 238.5 | +0.0 | 1,057 | 1,052 | 5 | 90 | 0 | 938 | 29 | .31 | .00 |
| 7 | 1,209.05 | 238.1 | -0.4 | 917 | 893 | 24 | 90 | 0 | 1,008 | 29 | .31 | .00 |
| 8 | 1,209.05 | 238.1 | +0.0 | 1,077 | 1,104 | -27 | 90 | 0 | 960 | 27 | .29 | .00 |
| 9 | 1,208.95 | 237.7 | -0.3 | 1,997 | 1,962 | 35 | 90 | 0 | 2,048 | 20 | .21 | .00 |
| 10 | 1,208.96 | 237.8 | +0.0 | 2,258 | 2,151 | 107 | 90 | 0 | 2,127 | 25 | .27 | .00 |
| 11 | 1,209.17 | 238.4 | +0.7 | 2,240 | 2,240 | 0 | 90 | 0 | 1,780 | 32 | .34 | .00 |
| 12 | 1,209.18 | 238.5 | +0.0 | 2,660 | 2,569 | 91 | 90 | 0 | 2,526 | 28 | .30 | .00 |
| 13 | 1,209.16 | 238.4 | -0.1 | 2,599 | 2,536 | 63 | 90 | 0 | 2,512 | 29 | .31 | .00 |
| 14 | 1,209.16 | 238.4 | +0.0 | 2,637 | 2,559 | 78 | 90 | 0 | 2,524 | 23 | .25 | .00 |
| 15 | 1,208.98 | 237.8 | -0.6 | 1,064 | 1,057 | 7 | 90 | 0 | 1,234 | 30 | .32 | .00 |
| 16 | 1,208.83 | 237.4 | -0.5 | 980 | 969 | 11 | 90 | 0 | 1,100 | 30 | .32 | .00 |
| 17 | 1,209.01 | 237.9 | +0.6 | 1,923 | 1,883 | 40 | 90 | 0 | 1,522 | 23 | .25 | .00 |
| 18 | 1,209.15 | 238.4 | +0.4 | 1,895 | 1,834 | 61 | 90 | 0 | 1,548 | 31 | .33 | .00 |
| 19 | 1,209.17 | 238.4 | +0.1 | 1,606 | 1,611 | -5 | 90 | 0 | 1,453 | 31 | .33 | .00 |
| 20 | 1,208.70 | 236.9 | -1.5 | 908 | 901 | 7 | 90 | 0 | 1,542 | 31 | .33 | .00 |
| 21 | 1,208.92 | 237.6 | +0.7 | 1,924 | 1,905 | 19 | 90 | 0 | 1,457 | 25 | .27 | .00 |
| 22 | 1,209.13 | 238.3 | +0.7 | 1,865 | 1,818 | 47 | 90 | 0 | 1,407 | 30 | .32 | .00 |
| 23 | 1,209.04 | 238.0 | -0.3 | 1,551 | 1,530 | 21 | 90 | 0 | 1,580 | 26 | .28 | .00 |
| 24 | 1,209.01 | 237.9 | -0.1 | 1,618 | 1,559 | 59 | 90 | 0 | 1,549 | 27 | .29 | .03 |
| 25 | 1,209.22 | 238.6 | +0.7 | 1,869 | 1,830 | 39 | 90 | 0 | 1,422 | 18 | .19 | .00 |
| 26 | 1,209.06 | 238.1 | -0.5 | 1,828 | 1,789 | 39 | 90 | 0 | 1,974 | 22 | .23 | .00 |
| 27 | 1,209.17 | 238.4 | +0.4 | 2,190 | 2,114 | 76 | 90 | 0 | 1,895 | 28 | .30 | .00 |
| 28 | 1,208.60 | 236.6 | -1.8 | 1,548 | 1,513 | 35 | 90 | 0 | 2,342 | 31 | .33 | .00 |
| 29 | 1,208.84 | 237.4 | +0.8 | 1,402 | 1,465 | -63 | 90 | 0 | 895 | 32 | .34 | .00 |
| 30 | 1,208.99 | 237.9 | +0.5 | 1,921 | 1,921 | 0 | 90 | 0 | 1,564 | 27 | .29 | .00 |
| 31 | 1,209.05 | 238.1 | +0.2 | 1,359 | 1,395 | -36 | 90 | 0 | 1,146 | 26 | .28 | .00 |
| **TOTALS** | | | **+0.4** | **50,539** | **49,599** | **940** | **2,790** | **0** | **46,798** | **839** | **8.97** | **.03** |
| **ACRE-FEET** | | | **+0.4** | **100,244** | **98,380** | **1,864** | **5,534** | **0** | **92,824** | **1,664** | | |

* 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)

| | | | |
|---|---|---|---|
| POWER | 92,824 | OUTLET | 5,534 |
| SPILL | 0 | TOTAL | 98,358 |

**PRECIPITATION**

| | |
|---|---|
| THIS MONTH | **.03** |
| JULY 1, 2003 TO DATE | **.03** |

UNITED STATES DEPARTMENT OF THE INTERIOR
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**Table 6**

## JULY 2003 — LEWISTON LAKE DAILY OPERATIONS

RUN DATE: August 28, 2003

| DAY | ELEV | STORAGE ACRE-FEET IN LAKE | STORAGE ACRE-FEET CHANGE | COMPUTED* INFLOW C.F.S. | RELEASE - C.F.S. POWER | RELEASE - C.F.S. RIVER OUTLETS (1) | RELEASE - C.F.S. SPILL | RELEASE - C.F.S. JUDGE FRANCIS CARR POWERPLANT | EVAPORATION (2) C.F.S. | EVAPORATION (2) INCHES |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 14,263 | | | | | | | | |
| 1 | 1,901.31 | 14,143 | -120 | 3,095 | 80 | 50 | 1,870 | 1,148 | 7 | .34 |
| 2 | 1,901.27 | 14,113 | -30 | 3,029 | 80 | 63 | 1,857 | 1,038 | 6 | .28 |
| 3 | 1,901.26 | 14,105 | -8 | 3,097 | 80 | 70 | 1,850 | 1,094 | 7 | .30 |
| 4 | 1,901.22 | 14,076 | -29 | 3,074 | 80 | 70 | 1,850 | 1,082 | 7 | .30 |
| 5 | 1,900.96 | 13,882 | -194 | 2,986 | 80 | 70 | 1,850 | 1,077 | 7 | .30 |
| 6 | 1,900.92 | 13,852 | -30 | 3,044 | 80 | 70 | 1,850 | 1,052 | 7 | .32 |
| 7 | 1,901.10 | 13,986 | +134 | 2,968 | 80 | 70 | 1,850 | 893 | 7 | .32 |
| 8 | 1,901.11 | 13,993 | +7 | 3,116 | 80 | 70 | 1,850 | 1,104 | 8 | .36 |
| 9 | 1,901.07 | 13,963 | -30 | 3,953 | 80 | 70 | 1,850 | 1,962 | 6 | .28 |
| 10 | 1,901.00 | 13,911 | -52 | 4,132 | 80 | 70 | 1,850 | 2,151 | 7 | .30 |
| 11 | 1,900.90 | 13,837 | -74 | 3,860 | 80 | 70 | 1,500 | 2,240 | 7 | .32 |
| 12 | 1,900.87 | 13,815 | -22 | 3,984 | 80 | 70 | 1,269 | 2,569 | 7 | .32 |
| 13 | 1,900.88 | 13,823 | +8 | 3,816 | 80 | 70 | 1,119 | 2,536 | 7 | .33 |
| 14 | 1,900.71 | 13,698 | -125 | 3,622 | 80 | 70 | 969 | 2,559 | 7 | .33 |
| 15 | 1,900.54 | 13,572 | -126 | 1,988 | 80 | 70 | 838 | 1,057 | 7 | .31 |
| 16 | 1,901.14 | 14,016 | +444 | 2,088 | 80 | 70 | 738 | 969 | 7 | .32 |
| 17 | 1,900.84 | 13,793 | -223 | 2,566 | 80 | 70 | 638 | 1,883 | 7 | .32 |
| 18 | 1,901.04 | 13,941 | +148 | 2,619 | 80 | 70 | 553 | 1,834 | 7 | .32 |
| 19 | 1,901.48 | 14,270 | +329 | 2,412 | 80 | 70 | 478 | 1,611 | 7 | .30 |
| 20 | 1,901.75 | 14,472 | +202 | 1,639 | 80 | 70 | 478 | 901 | 8 | .35 |
| 21 | 1,901.44 | 14,240 | -232 | 2,313 | 80 | 70 | 369 | 1,905 | 6 | .27 |
| 22 | 1,901.27 | 14,113 | -127 | 2,230 | 80 | 70 | 319 | 1,818 | 7 | .31 |
| 23 | 1,900.55 | 13,580 | -533 | 1,719 | 80 | 70 | 300 | 1,530 | 8 | .35 |
| 24 | 1,901.46 | 14,255 | +675 | 2,357 | 80 | 70 | 300 | 1,559 | 8 | .37 |
| 25 | 1,901.65 | 14,397 | +142 | 2,357 | 80 | 89 | 281 | 1,830 | 5 | .23 |
| 26 | 1,901.39 | 14,203 | -194 | 2,149 | 80 | 100 | 270 | 1,789 | 8 | .35 |
| 27 | 1,901.18 | 14,046 | -157 | 2,493 | 80 | 100 | 270 | 2,114 | 8 | .36 |
| 28 | 1,900.21 | 13,330 | -716 | 1,609 | 80 | 100 | 270 | 1,513 | 7 | .33 |
| 29 | 1,900.53 | 13,565 | +235 | 2,040 | 80 | 100 | 270 | 1,465 | 7 | .34 |
| 30 | 1,900.40 | 13,469 | -96 | 2,330 | 80 | 100 | 270 | 1,921 | 7 | .32 |
| 31 | 1,901.09 | 13,978 | +509 | 2,110 | 80 | 100 | 270 | 1,395 | 8 | .36 |
| **TOTALS** | | | **-285** | **84,795** | **2,480** | **2,342** | **30,296** | **49,599** | **219** | **9.91** |
| **ACRE-FEET** | | | **-285** | **168,191** | **4,919** | **4,645** | **60,092** | **98,380** | **434** | |

* 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 | 4,919 | JUDGE FRANCIS CARR POWERPLANT | 98,380 |
| TOTAL RIVER | 69,656 | TOTAL RELEASE | 168,036 |

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**Table 7**

**JULY 2003** **SPRING CREEK DEBRIS RESERVOIR DAILY OPERATIONS** RUN DATE: August 28, 2003

| DAY | ELEV | STORAGE ACRE-FEET IN LAKE | STORAGE ACRE-FEET CHANGE | COMPUTED* INFLOW C.F.S. | RELEASE - C.F.S. SPILL | RELEASE - C.F.S. OUTLET | SPRING CR DEBRIS DAM TIME | SPRING CR DEBRIS DAM COPPER | SPRING CR DEBRIS DAM ZINC | **KES COPPER MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 946 | | | | | | | | |
| 1 | 713.13 | 955 | +9 | 5 | 0 | 0 | | | | |
| 2 | 713.36 | 963 | +8 | 4 | 0 | 0 | | | | |
| 3 | 713.68 | 973 | +10 | 5 | 0 | 0 | | | | |
| 4 | 713.95 | 981 | +8 | 4 | 0 | 0 | | | | |
| 5 | 714.19 | 989 | +8 | 4 | 0 | 0 | | | | |
| 6 | 714.38 | 995 | +6 | 3 | 0 | 0 | | | | |
| 7 | 714.64 | 1,003 | +8 | 4 | 0 | 0 | | | | |
| 8 | 714.81 | 1,009 | +6 | 3 | 0 | 0 | | | | |
| 9 | 714.24 | 991 | -18 | 1 | 0 | 10 | | | | |
| 10 | 712.64 | 940 | -51 | -6 | 0 | 20 | | | | |
| 11 | 710.81 | 885 | -55 | -8 | 0 | 20 | | | | |
| 12 | 708.63 | 823 | -62 | -11 | 0 | 20 | | | | |
| 13 | 705.81 | 745 | -78 | -19 | 0 | 20 | | | | |
| 14 | 701.82 | 645 | -100 | -32 | 0 | 18 | | | | |
| 15 | 698.14 | 560 | -85 | -28 | 0 | 15 | | | | |
| 16 | 698.12 | 560 | +0 | 9 | 0 | 9 | | | | |
| 17 | 698.11 | 559 | -1 | 9 | 0 | 10 | | | | |
| 18 | 698.12 | 560 | +1 | 11 | 0 | 10 | | | | |
| 19 | 698.14 | 560 | +0 | 10 | 0 | 10 | | | | |
| 20 | 698.08 | 559 | -1 | 9 | 0 | 10 | | | | |
| 21 | 698.09 | 559 | +0 | 10 | 0 | 10 | | | | |
| 22 | 698.11 | 559 | +0 | 20 | 0 | 20 | | | | |
| 23 | 698.09 | 559 | +0 | 20 | 0 | 20 | | | | |
| 24 | 698.05 | 558 | -1 | 9 | 0 | 10 | | | | |
| 25 | 698.46 | 567 | +9 | 15 | 0 | 10 | | | | |
| 26 | 699.62 | 593 | +26 | 13 | 0 | 0 | | | | |
| 27 | 700.47 | 613 | +20 | 10 | 0 | 0 | | | | |
| 28 | 701.08 | 627 | +14 | 7 | 0 | 0 | | | | |
| 29 | 701.65 | 641 | +14 | 7 | 0 | 0 | | | | |
| 30 | 702.08 | 651 | +10 | 5 | 0 | 0 | | | | |
| 31 | 702.46 | 660 | +9 | 5 | 0 | 0 | | | | |
| **TOTALS** | | | **-286** | **98** | **0** | **242** | | | | |
| **ACRE-FEET** | | | **-286** | **194** | **0** | **480** | | | | |

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

**SUMMARY**

| | RELEASE (ACRE-FEET) |
|---|---|
| SPILL | 0 |
| OUTLET | 480 |
| TOTAL | 480 |

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**Table 8**

**JULY 2003** **KESWICK RESERVOIR DAILY OPERATIONS** RUN DATE: August 28, 2003

| DAY | ELEV | STORAGE ACRE-FEET RES. | STORAGE ACRE-FEET CHANGE | COMPUTED* INFLOW C.F.S. | SPRING CR. P. P. RELEASE | SHASTA RELEASE C.F.S | RELEASE - C.F.S. POWER | RELEASE - C.F.S. SPILL | RELEASE - C.F.S. FISHTRAP | EVAP C.F.S. (1) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 22,626 | | | | | | | | |
| 1 | 584.93 | 22,464 | -162 | 11,966 | 867 | 10,396 | 11,992 | 0 | 50 | 6 |
| 2 | 584.96 | 22,482 | +18 | 11,525 | 964 | 10,586 | 11,459 | 0 | 50 | 7 |
| 3 | 583.48 | 21,574 | -908 | 11,081 | 986 | 10,223 | 11,482 | 0 | 50 | 7 |
| 4 | 584.09 | 21,946 | +372 | 12,241 | 954 | 11,299 | 11,997 | 0 | 50 | 6 |
| 5 | 584.64 | 22,285 | +339 | 12,193 | 974 | 11,201 | 11,965 | 0 | 50 | 7 |
| 6 | 584.16 | 21,989 | -296 | 11,864 | 938 | 11,028 | 11,956 | 0 | 50 | 7 |
| 7 | 583.68 | 21,696 | -293 | 11,874 | 1,008 | 10,948 | 11,965 | 0 | 50 | 7 |
| 8 | 584.38 | 22,124 | +428 | 12,747 | 960 | 11,733 | 12,474 | 0 | 50 | 7 |
| 9 | 584.71 | 22,328 | +204 | 13,500 | 2,048 | 11,894 | 13,341 | 0 | 50 | 6 |
| 10 | 584.85 | 22,414 | +86 | 14,314 | 2,127 | 12,559 | 14,214 | 0 | 50 | 7 |
| 11 | 584.29 | 22,069 | -345 | 14,261 | 1,780 | 12,747 | 14,378 | 0 | 50 | 7 |
| 12 | 584.54 | 22,223 | +154 | 14,493 | 2,526 | 12,201 | 14,358 | 0 | 50 | 7 |
| 13 | 584.37 | 22,118 | -105 | 14,368 | 2,512 | 12,150 | 14,364 | 0 | 50 | 7 |
| 14 | 583.60 | 21,647 | -471 | 14,103 | 2,524 | 11,797 | 14,282 | 0 | 50 | 8 |
| 15 | 584.20 | 22,013 | +366 | 14,544 | 1,234 | 13,555 | 14,301 | 0 | 50 | 8 |
| 16 | 584.35 | 22,106 | +93 | 14,409 | 1,100 | 13,498 | 14,305 | 0 | 50 | 7 |
| 17 | 583.93 | 21,848 | -258 | 14,281 | 1,522 | 12,983 | 14,355 | 0 | 50 | 6 |
| 18 | 584.72 | 22,334 | +486 | 14,665 | 1,548 | 13,180 | 14,362 | 0 | 50 | 8 |
| 19 | 585.35 | 22,727 | +393 | 14,560 | 1,453 | 13,100 | 14,304 | 0 | 50 | 8 |
| 20 | 585.40 | 22,758 | +31 | 14,431 | 1,542 | 13,009 | 14,357 | 0 | 50 | 8 |
| 21 | 579.80 | 19,412 | -3,346 | 12,635 | 1,457 | 11,317 | 14,264 | 0 | 50 | 8 |
| 22 | 581.89 | 20,622 | +1,210 | 14,873 | 1,407 | 13,774 | 14,206 | 0 | 50 | 7 |
| 23 | 583.53 | 21,605 | +983 | 14,879 | 1,580 | 13,666 | 14,343 | 0 | 33 | 7 |
| 24 | 581.35 | 20,305 | -1,300 | 13,670 | 1,549 | 12,576 | 14,319 | 0 | 0 | 6 |
| 25 | 581.67 | 20,493 | +188 | 14,359 | 1,422 | 13,139 | 13,997 | 264 | 0 | 3 |
| 26 | 582.65 | 21,074 | +581 | 15,199 | 1,974 | 13,614 | 14,341 | 559 | 0 | 6 |
| 27 | 582.12 | 20,758 | -316 | 14,843 | 1,895 | 13,335 | 14,431 | 564 | 0 | 7 |
| 28 | 583.31 | 21,471 | +713 | 15,433 | 2,342 | 13,486 | 14,502 | 565 | 0 | 7 |
| 29 | 585.31 | 22,702 | +1,231 | 15,665 | 895 | 14,996 | 14,457 | 579 | 0 | 8 |
| 30 | 585.97 | 23,116 | +414 | 15,368 | 1,564 | 14,017 | 14,563 | 588 | 0 | 8 |
| 31 | 585.25 | 22,664 | -452 | 14,630 | 1,146 | 13,822 | 14,272 | 578 | 0 | 8 |
| **TOTALS** | | | **+38** | **428,974** | **46,798** | **387,829** | **423,906** | **3,697** | **1,133** | **216** |
| **ACRE-FEET** | | | **+38** | **850,870** | **92,824** | **769,259** | **840,818** | **7,333** | **2,247** | **428** |

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

**SUMMARY**
RELEASE (ACRE-FEET)

| | |
|---|---|
| POWER | 840,818 |
| SPILL | 7,333 |
| FISH TRAP | 2,247 |

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**Table 9**

## JULY 2003 RED BLUFF DIVERSION RESERVOIR DAILY OPERATIONS

RUN DATE: August 28, 2003

| DAY | ELEVATION | STORAGE ACRE-FEET IN LAKE | STORAGE ACRE-FEET CHANGE | RELEASE C.F.S CORNING CANAL | RELEASE C.F.S TEHAMA COLUSA CANAL | RELEASE TO SACTO RIVER |
|---|---|---|---|---|---|---|
| | | 3,928 | | | | |
| 1 | 252.49 | 3,919 | -9 | 52 | 1,267 | 11,190 |
| 2 | 252.51 | 3,928 | +9 | 64 | 743 | 11,430 |
| 3 | 252.49 | 3,919 | -9 | 83 | 1,318 | 10,950 |
| 4 | 252.50 | 3,924 | +5 | 69 | 1,119 | 10,830 |
| 5 | 252.51 | 3,928 | +4 | 49 | 1,157 | 11,670 |
| 6 | 252.52 | 3,933 | +5 | 44 | 1,043 | 11,070 |
| 7 | 252.50 | 3,924 | -9 | 48 | 677 | 11,790 |
| 8 | 252.51 | 3,928 | +4 | 94 | 892 | 12,270 |
| 9 | 252.49 | 3,919 | -9 | 70 | 1,133 | 12,270 |
| 10 | 252.50 | 3,924 | +5 | 66 | 1,055 | 12,390 |
| 11 | 252.46 | 3,904 | -20 | 68 | 1,126 | 14,070 |
| 12 | 252.51 | 3,928 | +24 | 85 | 1,080 | 13,950 |
| 13 | 252.46 | 3,904 | -24 | 56 | 965 | 14,190 |
| 14 | 252.46 | 3,904 | +0 | 28 | 819 | 14,550 |
| 15 | 252.52 | 3,933 | +29 | 74 | 965 | 13,950 |
| 16 | 252.50 | 3,924 | -9 | 57 | 1,020 | 13,590 |
| 17 | 252.56 | 3,953 | +29 | 74 | 1,046 | 13,590 |
| 18 | 252.51 | 3,928 | -25 | 81 | 1,151 | 13,590 |
| 19 | 252.40 | 3,874 | -54 | 67 | 752 | 13,470 |
| 20 | 252.57 | 3,958 | +84 | 80 | 1,253 | 13,350 |
| 21 | 252.50 | 3,924 | -34 | 56 | 700 | 13,470 |
| 22 | 252.51 | 3,928 | +4 | 88 | 843 | 13,470 |
| 23 | 252.47 | 3,909 | -19 | 69 | 1,200 | 13,710 |
| 24 | 252.50 | 3,924 | +15 | 74 | 919 | 14,310 |
| 25 | 252.48 | 3,914 | -10 | 60 | 1,059 | 14,790 |
| 26 | 252.42 | 3,884 | -30 | 60 | 813 | 15,150 |
| 27 | 252.58 | 3,963 | +79 | 86 | 861 | 15,990 |
| 28 | 252.46 | 3,904 | -59 | 51 | 752 | 15,990 |
| 29 | 252.50 | 3,924 | +20 | 66 | 673 | 15,990 |
| 30 | 252.50 | 3,924 | +0 | 65 | 900 | 15,270 |
| 31 | 252.50 | 3,924 | +0 | 65 | 900 | 15,270 |
| **TOTALS** | | | **-4** | **2,049** | **30,201** | **417,570** |
| **ACRE-FEET** | | | **-4** | **4,064** | **59,904** | **828,250** |

### SUMMARY

RELEASE (ACRE-FEET)

| | |
|---|---|
| CORNING CANAL | 4,064 |
| TEHAMA-COLUSA CANAL | 59,904 |
| TO SACTO RIVER | 828,250 |
| TOTAL | 892,218 |

Table 10

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

DAILY OPERATION OF BLACK BUTTE RESERVOIR, STONY CREEK, CALIFORNIA

July 2003

| Date | Midnight Elev (ft) | Storage (ac-ft) | Storage Change (ac-ft) | Mean Inflow (sfd) | -------- Mean Outflow ---------- Total (sfd) | River (sfd) | [1] (sfd) | [2] (sfd) | Gross Evap (ac-ft) | Pan Evap (in) | Prec (in) | Total U S Storage (ac-ft) | Top Con Storage (ac-ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 468.74 | 116229 | -845 | 30 | 412 | 153 | 254 | 5 | 87 | 0.34 | 0 | 97361 | 136200 |
| 2 | 468.55 | 115467 | -762 | 52 | 386 | 152 | 229 | 5 | 100 | 0.39 | 0 | 97425 | 136200 |
| 3 | 468.39 | 114828 | -639 | 37 | 309 | 138 | 166 | 5 | 100 | 0.39 | 0 | 97463 | 136200 |
| 4 | 468.24 | 114230 | -598 | 59 | 305.5 | 135 | 167 | 3.5 | 109 | 0.43 | 0 | 97505 | 136200 |
| 5 | 468.07 | 113555 | -675 | 33 | 318 | 130 | 185 | 3 | 109 | 0.43 | 0 | 97242 | 136200 |
| 6 | 467.89 | 112843 | -712 | 30 | 337 | 146 | 188 | 3 | 104 | 0.41 | 0 | 97293 | 136200 |
| 7 | 467.71 | 112133 | -710 | 32 | 341.5 | 144 | 193 | 4.5 | 96 | 0.38 | 0 | 97345 | 136200 |
| 8 | 467.53 | 111425 | -708 | 38 | 348 | 151 | 192 | 5 | 93 | 0.37 | 0 | 97371 | 136200 |
| 9 | 467.34 | 110681 | -744 | 34 | 361 | 158 | 198 | 5 | 95 | 0.38 | 0 | 97396 | 136200 |
| 10 | 467.14 | 109900 | -781 | 37 | 373 | 155 | 213 | 5 | 115 | 0.46 | 0 | 97352 | 136200 |
| 11 | 466.93 | 109084 | -816 | 43 | 399 | 167 | 227 | 5 | 109 | 0.44 | 0 | 97352 | 136200 |
| 12 | 466.7 | 108194 | -890 | 18 | 417 | 172 | 240 | 5 | 99 | 0.4 | 0 | 97317 | 136200 |
| 13 | 466.49 | 107384 | -810 | 58 | 414 | 161 | 248 | 5 | 103 | 0.42 | 0 | 97317 | 136200 |
| 14 | 466.27 | 106539 | -845 | 29 | 401 | 168 | 228 | 5 | 108 | 0.44 | 0 | 97330 | 136200 |
| 15 | 466.06 | 105736 | -803 | 29 | 382 | 173 | 204 | 5 | 103 | 0.42 | 0 | 97333 | 136200 |
| 16 | 465.88 | 105050 | -686 | 34 | 329 | 139 | 189 | 1 | 100 | 0.41 | 0 | 97356 | 136200 |
| 17 | 465.71 | 104404 | -646 | 61 | 327 | 124 | 203 | 0 | 119 | 0.49 | 0 | 97334 | 136200 |
| 18 | 465.51 | 103647 | -757 | 32 | 352 | 137 | 210 | 5 | 123 | 0.51 | 0 | 96861 | 136200 |
| 19 | 465.31 | 102893 | -754 | 49 | 370 | 154 | 211 | 5 | 118 | 0.49 | 0 | 96811 | 136200 |
| 20 | 465.1 | 102104 | -789 | 26 | 372 | 157 | 210 | 5 | 103 | 0.43 | 0 | 96768 | 136200 |
| 21 | 464.88 | 101281 | -823 | 33 | 396 | 184 | 207 | 5 | 103 | 0.43 | 0 | 96750 | 136200 |
| 22 | 464.65 | 100423 | -858 | 33 | 415 | 192 | 218 | 5 | 100 | 0.42 | 0 | 96632 | 136200 |
| 23 | 464.4 | 99496 | -927 | 26 | 438 | 194 | 239 | 5 | 109 | 0.46 | 0 | 96602 | 136200 |
| 24 | 464.16 | 98609 | -887 | 26 | 442 | 194 | 243 | 5 | 61 | 0.26 | 0 | 96552 | 136200 |
| 25 | 463.92 | 97726 | -883 | 11 | 423 | 188 | 230 | 5 | 66 | 0.28 | 0 | 96495 | 136200 |
| 26 | 463.69 | 96883 | -843 | 23 | 399 | 178 | 216 | 5 | 98 | 0.42 | 0 | 96445 | 136200 |
| 27 | 463.48 | 96116 | -767 | 36 | 367.5 | 163 | 203 | 1.5 | 110 | 0.47 | 0 | 96385 | 136200 |
| 28 | 463.25 | 95280 | -836 | 21 | 389 | 166 | 223 | 0 | 107 | 0.46 | 0 | 96368 | 136200 |
| 29 | 463.01 | 94411 | -869 | 43 | 423 | 174 | 245 | 4 | 116 | 0.5 | 0 | 96328 | 136200 |
| 30 | 462.75 | 93474 | -937 | 6 | 429 | 184 | 240 | 5 | 97 | 0.42 | 0 | 96281 | 136200 |
| 31 | 462.49 | 92541 | -933 | 2 | 428 | 187 | 236 | 5 | 89 | 0.39 | 0 | 96182 | 136200 |
| Totals | (sfd) | | | 1021 | 11803.5 | 5018 | 6655 | 130.5 | | | | | |
| Totals | (ac-ft) | | -24533 | 2025 | 23412.2 | 9953.2 | | | 3149 | | | | |
| Totals | (inches) | | | | | | | | | 12.94 | 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**

## JULY 2003 — FOLSOM LAKE DAILY OPERATIONS

RUN DATE: August 28, 2003

| DAY | ELEV | STORAGE 1000 ACRE-FEET IN LAKE | CHANGE | COMPUTED* INFLOW C.F.S. | RELEASE - C.F.S. POWER | RIVER SPILL | OUTLET | PUMPING PLANT | EVAPORATION C.F.S. | INCHES | PRECIP INCHES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 924.0 | | | | | | | | | |
| 1 | 461.05 | 922.3 | -1.6 | 2,227 | 2,591 | 0 | 0 | 345 | 116 | .32 | .00 |
| 2 | 460.87 | 920.4 | -2.0 | 2,062 | 2,584 | 0 | 0 | 350 | 115 | .32 | .00 |
| 3 | 460.71 | 918.6 | -1.7 | 2,200 | 2,588 | 0 | 0 | 358 | 130 | .36 | .00 |
| 4 | 460.49 | 916.2 | -2.4 | 1,900 | 2,625 | 0 | 0 | 353 | 126 | .35 | .00 |
| 5 | 460.29 | 914.1 | -2.2 | 2,062 | 2,676 | 0 | 0 | 355 | 126 | .35 | .00 |
| 6 | 460.02 | 911.1 | -2.9 | 1,672 | 2,638 | 0 | 0 | 354 | 158 | .44 | .00 |
| 7 | 459.61 | 906.7 | -4.4 | 1,135 | 2,887 | 0 | 0 | 352 | 129 | .36 | .00 |
| 8 | 459.18 | 902.1 | -4.6 | 1,368 | 3,275 | 0 | 0 | 317 | 118 | .33 | .00 |
| 9 | 458.90 | 899.1 | -3.0 | 2,087 | 3,117 | 0 | 0 | 378 | 114 | .32 | .00 |
| 10 | 458.67 | 896.6 | -2.5 | 2,586 | 3,322 | 0 | 0 | 382 | 128 | .36 | .00 |
| 11 | 458.35 | 893.1 | -3.4 | 1,793 | 3,010 | 0 | 0 | 370 | 146 | .41 | .00 |
| 12 | 458.06 | 890.0 | -3.1 | 2,040 | 3,117 | 0 | 0 | 369 | 124 | .35 | .00 |
| 13 | 457.68 | 886.0 | -4.1 | 1,677 | 3,236 | 0 | 0 | 366 | 124 | .35 | .00 |
| 14 | 457.48 | 883.8 | -2.1 | 2,517 | 3,127 | 0 | 0 | 354 | 113 | .32 | .00 |
| 15 | 457.23 | 881.2 | -2.7 | 2,238 | 3,109 | 0 | 0 | 363 | 113 | .32 | .00 |
| 16 | 456.83 | 876.9 | -4.3 | 1,527 | 3,192 | 0 | 0 | 347 | 138 | .39 | .00 |
| 17 | 456.61 | 874.6 | -2.3 | 2,441 | 3,144 | 0 | 0 | 356 | 120 | .34 | .00 |
| 18 | 456.35 | 871.8 | -2.8 | 2,259 | 3,164 | 0 | 0 | 361 | 127 | .36 | .00 |
| 19 | 456.04 | 868.5 | -3.3 | 1,964 | 3,102 | 0 | 0 | 358 | 165 | .47 | .00 |
| 20 | 455.67 | 864.6 | -3.9 | 2,147 | 3,642 | 0 | 0 | 359 | 119 | .34 | .00 |
| 21 | 455.15 | 859.1 | -5.5 | 1,389 | 3,653 | 0 | 0 | 375 | 133 | .38 | .00 |
| 22 | 454.74 | 854.8 | -4.3 | 1,997 | 3,690 | 0 | 0 | 363 | 122 | .35 | .00 |
| 23 | 454.23 | 849.4 | -5.4 | 2,095 | 4,322 | 0 | 0 | 358 | 118 | .34 | .00 |
| 24 | 453.64 | 843.2 | -6.2 | 1,805 | 4,488 | 0 | 0 | 353 | 80 | .23 | .00 |
| 25 | 453.13 | 837.9 | -5.3 | 1,971 | 4,178 | 0 | 0 | 321 | 159 | .46 | .00 |
| 26 | 452.60 | 832.4 | -5.5 | 2,126 | 4,502 | 0 | 0 | 288 | 117 | .34 | .00 |
| 27 | 452.05 | 826.7 | -5.7 | 2,132 | 4,606 | 0 | 0 | 297 | 110 | .32 | .00 |
| 28 | 451.42 | 820.1 | -6.5 | 1,877 | 4,720 | 9 | 0 | 299 | 133 | .39 | .00 |
| 29 | 450.78 | 813.5 | -6.6 | 1,795 | 4,672 | 27 | 0 | 306 | 116 | .34 | .00 |
| 30 | 450.11 | 806.7 | -6.9 | 1,460 | 4,519 | 6 | 0 | 278 | 126 | .37 | .00 |
| 31 | 449.47 | 800.1 | -6.5 | 1,526 | 4,429 | 0 | 0 | 296 | 98 | .29 | .00 |
| **TOTALS** | | | **-123.7** | **60,075** | **107,925** | **42** | **0** | **10,681** | **3,861** | **10.97** | **.00** |
| **ACRE-FEET** | | | **-123,700** | **119,159** | **214,069** | **83** | **0** | **21,186** | **7,658** | | |

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

**SUMMARY**

| RELEASE (ACRE-FEET) | | | |
|---|---|---|---|
| POWER | 214,069 | OUTLET | 0 |
| SPILL | 83 | TOTAL | 235,338 |
| PUMPING PLANT | 21,186 | | |

| PRECIPITATION | |
|---|---|
| THIS MONTH = | .00 |
| JULY 1, 2003 TO DATE = | .00 |

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

**Table 12**

**JULY 2003** **LAKE NATOMA DAILY OPERATIONS** RUN DATE: August 28, 2003

| DAY | ELEV | STORAGE ACRE-FEET IN LAKE | CHANGE | COMPUTED* INFLOW C.F.S. | RELEASE - C.F.S. FOLSOM SOUTH CANAL | POWER | SPILL | HATCHERY | EVAP C.F.S. (1) |
|---|---|---|---|---|---|---|---|---|---|
| | | 7,941 | | | | | | | |
| 1 | 123.13 | 7,852 | -89 | 2,510 | 45 | 2,446 | 0 | 60 | 4 |
| 2 | 122.99 | 7,787 | -65 | 2,520 | 45 | 2,444 | 0 | 60 | 4 |
| 3 | 122.94 | 7,764 | -23 | 2,535 | 45 | 2,437 | 0 | 60 | 5 |
| 4 | 122.90 | 7,746 | -18 | 2,552 | 45 | 2,451 | 0 | 60 | 5 |
| 5 | 123.19 | 7,880 | +134 | 2,615 | 45 | 2,437 | 0 | 60 | 5 |
| 6 | 123.25 | 7,909 | +29 | 2,571 | 45 | 2,445 | 0 | 60 | 6 |
| 7 | 123.96 | 8,242 | +333 | 2,710 | 45 | 2,432 | 0 | 60 | 5 |
| 8 | 124.42 | 8,471 | +229 | 3,134 | 45 | 2,910 | 0 | 60 | 4 |
| 9 | 124.49 | 8,506 | +35 | 3,066 | 45 | 2,939 | 0 | 60 | 4 |
| 10 | 124.79 | 8,656 | +150 | 3,136 | 45 | 2,950 | 0 | 60 | 5 |
| 11 | 124.38 | 8,451 | -205 | 2,949 | 45 | 2,942 | 0 | 60 | 5 |
| 12 | 124.37 | 8,446 | -5 | 3,051 | 45 | 2,944 | 0 | 60 | 5 |
| 13 | 124.12 | 8,321 | -125 | 2,990 | 45 | 2,943 | 0 | 60 | 5 |
| 14 | 124.05 | 8,286 | -35 | 3,032 | 45 | 2,941 | 0 | 60 | 4 |
| 15 | 124.04 | 8,281 | -5 | 3,041 | 39 | 2,941 | 0 | 60 | 4 |
| 16 | 123.92 | 8,223 | -58 | 3,004 | 30 | 2,938 | 0 | 60 | 5 |
| 17 | 123.90 | 8,214 | -9 | 3,038 | 30 | 2,949 | 0 | 60 | 4 |
| 18 | 123.85 | 8,191 | -23 | 3,028 | 30 | 2,945 | 0 | 60 | 5 |
| 19 | 123.53 | 8,040 | -151 | 2,979 | 39 | 2,950 | 0 | 60 | 6 |
| 20 | 123.36 | 7,960 | -80 | 3,488 | 45 | 3,419 | 0 | 60 | 4 |
| 21 | 123.16 | 7,866 | -94 | 3,515 | 55 | 3,442 | 0 | 60 | 5 |
| 22 | 123.17 | 7,871 | +5 | 3,554 | 55 | 3,431 | 0 | 60 | 5 |
| 23 | 123.62 | 8,082 | +211 | 4,149 | 55 | 3,924 | 0 | 60 | 4 |
| 24 | 124.58 | 8,551 | +469 | 4,287 | 54 | 3,934 | 0 | 60 | 3 |
| 25 | 124.58 | 8,551 | +0 | 4,056 | 48 | 3,942 | 0 | 60 | 6 |
| 26 | 124.25 | 8,386 | -165 | 4,434 | 45 | 4,408 | 0 | 60 | 4 |
| 27 | 124.19 | 8,356 | -30 | 4,520 | 45 | 4,426 | 0 | 60 | 4 |
| 28 | 124.63 | 8,576 | +220 | 4,651 | 45 | 4,430 | 0 | 60 | 5 |
| 29 | 125.23 | 8,885 | +309 | 4,702 | 45 | 4,436 | 0 | 60 | 5 |
| 30 | 124.89 | 8,706 | -179 | 4,456 | 45 | 4,436 | 0 | 60 | 5 |
| 31 | 124.09 | 8,306 | -400 | 4,426 | 45 | 4,519 | 0 | 60 | 4 |
| **TOTALS** | | | **+365** | **104,699** | **1,380** | **101,131** | **0** | **1,860** | **144** |
| **ACRE-FEET** | | | **+365** | **207,670** | **2,737** | **200,593** | **0** | **3,689** | **286** |

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 | 200,593 | FOLSOM SOUTH CANAL | 2,737 | TOTAL | 207,019 |
| SPILL | 0 | HATCHERY | 3,689 | | |

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

**JULY 2003**

## NEW MELONES LAKE DAILY OPERATIONS

RUN DATE: March 12, 2004

| DAY | ELEV | STORAGE 1000 ACRE-FEET IN LAKE | CHANGE | COMPUTED* INFLOW C.F.S. | RELEASE - C.F.S. POWER | SPILL | OUTLET | EVAPORATION C.F.S. | INCHES | PRECIP INCHES |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 1,447.2 | | | | | | | | |
| 1 | 997.05 | 1,444.2 | -3.0 | 1,121 | 2,514 | 0 | 0 | 120 | .41 | .00 |
| 2 | 996.89 | 1,442.8 | -1.5 | 1,079 | 1,679 | 0 | 0 | 132 | .45 | .00 |
| 3 | 996.56 | 1,439.8 | -3.0 | 1,042 | 2,417 | 0 | 0 | 132 | .45 | .00 |
| 4 | 996.32 | 1,437.6 | -2.2 | 1,243 | 2,216 | 0 | 0 | 123 | .42 | .00 |
| 5 | 996.07 | 1,435.4 | -2.3 | 1,024 | 2,023 | 0 | 0 | 143 | .49 | .00 |
| 6 | 995.80 | 1,432.9 | -2.4 | 933 | 2,043 | 0 | 0 | 120 | .41 | .00 |
| 7 | 995.49 | 1,430.1 | -2.8 | 1,025 | 2,302 | 0 | 0 | 134 | .46 | .00 |
| 8 | 995.19 | 1,427.4 | -2.7 | 939 | 2,173 | 0 | 0 | 131 | .45 | .00 |
| 9 | 994.90 | 1,424.8 | -2.6 | 992 | 2,188 | 0 | 0 | 122 | .42 | .00 |
| 10 | 994.52 | 1,421.4 | -3.4 | 826 | 2,411 | 0 | 0 | 137 | .47 | .00 |
| 11 | 994.22 | 1,418.7 | -2.7 | 678 | 1,903 | 0 | 0 | 134 | .46 | .00 |
| 12 | 993.99 | 1,416.6 | -2.1 | 834 | 1,732 | 0 | 0 | 145 | .50 | .00 |
| 13 | 993.67 | 1,413.7 | -2.9 | 791 | 2,107 | 0 | 0 | 128 | .44 | .00 |
| 14 | 993.40 | 1,411.3 | -2.4 | 987 | 2,096 | 0 | 0 | 110 | .38 | .00 |
| 15 | 993.19 | 1,409.5 | -1.9 | 1,043 | 1,855 | 0 | 0 | 136 | .47 | .00 |
| 16 | 993.02 | 1,407.9 | -1.5 | 1,106 | 1,749 | 0 | 0 | 124 | .43 | .00 |
| 17 | 992.71 | 1,405.2 | -2.8 | 1,023 | 2,279 | 0 | 0 | 139 | .48 | .00 |
| 18 | 992.42 | 1,402.6 | -2.6 | 928 | 2,099 | 0 | 0 | 133 | .46 | .00 |
| 19 | 992.20 | 1,400.6 | -2.0 | 946 | 1,797 | 0 | 0 | 138 | .48 | .00 |
| 20 | 991.85 | 1,397.5 | -3.1 | 1,086 | 2,542 | 0 | 0 | 115 | .40 | .00 |
| 21 | 991.57 | 1,395.0 | -2.5 | 895 | 2,011 | 0 | 0 | 138 | .48 | .00 |
| 22 | 991.34 | 1,393.0 | -2.0 | 1,034 | 1,929 | 0 | 0 | 135 | .47 | .00 |
| 23 | 991.04 | 1,390.3 | -2.7 | 787 | 1,996 | 0 | 0 | 135 | .47 | .00 |
| 24 | 990.76 | 1,387.8 | -2.5 | 914 | 2,075 | 0 | 0 | 89 | .31 | .00 |
| 25 | 990.53 | 1,385.8 | -2.0 | 1,037 | 1,926 | 0 | 0 | 137 | .48 | .00 |
| 26 | 990.21 | 1,383.0 | -2.8 | 988 | 2,287 | 0 | 0 | 129 | .45 | .00 |
| 27 | 989.91 | 1,380.3 | -2.7 | 896 | 2,102 | 0 | 0 | 131 | .46 | .00 |
| 28 | 989.51 | 1,376.8 | -3.5 | 953 | 2,610 | 0 | 0 | 120 | .42 | .00 |
| 29 | 989.31 | 1,375.0 | -1.8 | 852 | 1,607 | 0 | 0 | 134 | .47 | .00 |
| 30 | 988.89 | 1,371.3 | -3.7 | 804 | 2,531 | 0 | 0 | 137 | .48 | .00 |
| 31 | 988.60 | 1,368.8 | -2.5 | 994 | 2,181 | 0 | 0 | 97 | .34 | .00 |
| **TOTALS** | | | **-78.6** | **29,800** | **65,380** | **0** | **0** | **3,978** | **13.76** | **.00** |
| **ACRE-FEET** | | | **-78,600** | **59,108** | **129,681** | **0** | **0** | **7,890** | | |

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

## SUMMARY

| RELEASE (ACRE-FEET) | | | | PRECIPITATION | |
|---|---|---|---|---|---|
| POWER | 129,681 | OUTLET | 0 | THIS MONTH = | .00 |
| SPILL | 0 | TOTAL | 129,681 | JULY 1, 2003 TO DATE = | .00 |

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

**JULY 2003** **GOODWIN RESERVOIR DAILY OPERATIONS** RUN DATE: September 14, 2004

| DAY | ELEV | STORAGE ACRE-FEET RES. | STORAGE ACRE-FEET CHANGE | TULLOCH RELEASE | RELEASE - C.F.S. RIVER OUTLET | RELEASE - C.F.S. RIVER SPILL | RELEASE - C.F.S. CANALS JOINT MAIN | RELEASE - C.F.S. CANALS SOUTH MAIN |
|---|---|---|---|---|---|---|---|---|
| | | 556 | | | | | | |
| 1 | 360.22 | 552 | -4 | 2,305 | 0 | 574 | 990 | 467 |
| 2 | 360.22 | 552 | +0 | 2,318 | 0 | 532 | 1,030 | 467 |
| 3 | 360.22 | 552 | +0 | 2,230 | 0 | 532 | 1,060 | 432 |
| 4 | 360.22 | 552 | +0 | 2,178 | 0 | 532 | 1,080 | 417 |
| 5 | 360.22 | 552 | +0 | 2,204 | 0 | 528 | 1,090 | 440 |
| 6 | 360.22 | 552 | +0 | 2,228 | 0 | 531 | 1,090 | 455 |
| 7 | 360.13 | 546 | -6 | 2,192 | 0 | 498 | 1,100 | 455 |
| 8 | 360.11 | 545 | -1 | 2,106 | 0 | 395 | 1,120 | 454 |
| 9 | 360.11 | 545 | +0 | 2,068 | 0 | 376 | 1,120 | 437 |
| 10 | 360.08 | 543 | -2 | 2,080 | 0 | 361 | 1,120 | 439 |
| 11 | 360.05 | 541 | -2 | 2,008 | 0 | 322 | 1,050 | 476 |
| 12 | 360.08 | 543 | +2 | 1,994 | 0 | 326 | 1,010 | 488 |
| 13 | 360.08 | 543 | +0 | 1,979 | 0 | 320 | 998 | 475 |
| 14 | 360.08 | 543 | +0 | 1,943 | 0 | 323 | 978 | 461 |
| 15 | 360.11 | 545 | +2 | 1,930 | 0 | 334 | 969 | 461 |
| 16 | 360.13 | 546 | +1 | 1,975 | 0 | 366 | 977 | 469 |
| 17 | 360.11 | 545 | -1 | 2,051 | 0 | 393 | 1,000 | 486 |
| 18 | 360.11 | 545 | +0 | 2,055 | 0 | 380 | 1,000 | 483 |
| 19 | 360.11 | 545 | +0 | 2,046 | 0 | 372 | 1,010 | 483 |
| 20 | 360.13 | 546 | +1 | 3,231 | 0 | 397 | 1,020 | 483 |
| 21 | 360.13 | 546 | +0 | 2,071 | 0 | 423 | 1,010 | 484 |
| 22 | 360.13 | 546 | +0 | 2,057 | 0 | 422 | 1,000 | 484 |
| 23 | 360.11 | 545 | -1 | 2,099 | 0 | 399 | 1,060 | 484 |
| 24 | 360.11 | 545 | +0 | 2,116 | 0 | 378 | 1,090 | 484 |
| 25 | 360.11 | 545 | +0 | 2,140 | 0 | 370 | 1,090 | 484 |
| 26 | 360.11 | 545 | +0 | 2,158 | 0 | 375 | 1,100 | 484 |
| 27 | 360.13 | 546 | +1 | 2,164 | 0 | 402 | 1,100 | 484 |
| 28 | 360.11 | 545 | -1 | 2,185 | 0 | 405 | 1,100 | 485 |
| 29 | 360.11 | 545 | +0 | 2,162 | 0 | 378 | 1,110 | 484 |
| 30 | 360.11 | 545 | +0 | 2,163 | 0 | 384 | 1,110 | 485 |
| 31 | 360.11 | 545 | +0 | 2,168 | 0 | 375 | 1,110 | 485 |
| **TOTALS** | | | **-11** | **66,604** | **0** | **12,703** | **32,692** | **14,555** |
| **ACRE-FEET** | | | **-11** | **132,109** | **0** | **25,196** | **64,845** | **28,870** |

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

**SUMMARY**
RELEASE (ACRE-FEET)

| | | | |
|---|---|---|---|
| JOINT MAIN CANAL | 64,845 | OUTLET | 0 |
| SOUTH MAIN CANAL | 28,870 | SPILL | 25,196 |
| | | TOTAL | 118,911 |

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

## JULY 2003 — MILLERTON LAKE DAILY OPERATIONS

RUN DATE: March 12, 2004

| DAY | ELEV | STORAGE 1000 ACRE-FEET IN LAKE | STORAGE CHANGE | COMPUTED* INFLOW C.F.S. | RELEASE - C.F.S. CANALS MADERA | CANALS FRIANT-KERN | RIVER SPILL | RIVER OUTLET | EVAPORATION C.F.S. | EVAPORATION INCHES | PRECIP INCHES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 483.3 | | | | | | | | | |
| 1 | 569.49 | 479.8 | -3.5 | 3,005 | 837 | 3,632 | 0 | 249 | 62 | .41 | .00 |
| 2 | 568.67 | 475.9 | -3.8 | 3,132 | 883 | 3,871 | 0 | 249 | 63 | .42 | .00 |
| 3 | 567.81 | 471.9 | -4.0 | 2,882 | 946 | 3,646 | 0 | 249 | 60 | .40 | .00 |
| 4 | 566.87 | 467.6 | -4.4 | 2,405 | 957 | 3,325 | 0 | 249 | 69 | .46 | .00 |
| 5 | 565.88 | 463.0 | -4.6 | 2,029 | 938 | 3,081 | 0 | 247 | 61 | .41 | .00 |
| 6 | 565.14 | 459.6 | -3.4 | 2,674 | 945 | 3,120 | 0 | 247 | 71 | .48 | .00 |
| 7 | 564.34 | 456.0 | -3.6 | 2,636 | 959 | 3,203 | 0 | 247 | 65 | .44 | .00 |
| 8 | 563.38 | 451.6 | -4.4 | 2,468 | 1,047 | 3,300 | 0 | 246 | 70 | .48 | .00 |
| 9 | 562.31 | 446.8 | -4.8 | 2,552 | 1,083 | 3,594 | 0 | 246 | 61 | .42 | .00 |
| 10 | 561.15 | 441.6 | -5.2 | 2,460 | 1,134 | 3,640 | 0 | 245 | 59 | .41 | .00 |
| 11 | 560.12 | 437.0 | -4.6 | 2,634 | 1,167 | 3,455 | 0 | 246 | 76 | .53 | .00 |
| 12 | 558.66 | 430.6 | -6.5 | 1,502 | 1,147 | 3,264 | 0 | 245 | 100 | .70 | .00 |
| 13 | 557.78 | 426.7 | -3.9 | 2,759 | 1,078 | 3,316 | 0 | 245 | 69 | .49 | .00 |
| 14 | 556.70 | 422.0 | -4.7 | 2,433 | 993 | 3,516 | 0 | 244 | 56 | .40 | .00 |
| 15 | 555.70 | 417.6 | -4.3 | 2,614 | 903 | 3,598 | 0 | 244 | 55 | .39 | .00 |
| 16 | 554.60 | 412.9 | -4.7 | 2,548 | 991 | 3,628 | 0 | 247 | 71 | .51 | .00 |
| 17 | 553.57 | 408.5 | -4.4 | 2,738 | 1,003 | 3,647 | 0 | 249 | 61 | .44 | .00 |
| 18 | 552.59 | 404.3 | -4.2 | 2,638 | 995 | 3,415 | 0 | 254 | 75 | .55 | .00 |
| 19 | 551.44 | 399.5 | -4.9 | 2,040 | 1,007 | 3,162 | 0 | 257 | 63 | .46 | .00 |
| 20 | 550.46 | 395.4 | -4.1 | 2,427 | 1,007 | 3,179 | 0 | 256 | 57 | .42 | .00 |
| 21 | 549.30 | 390.5 | -4.8 | 2,154 | 1,008 | 3,273 | 0 | 257 | 58 | .43 | .00 |
| 22 | 548.29 | 386.3 | -4.2 | 2,467 | 840 | 3,417 | 0 | 256 | 67 | .50 | .00 |
| 23 | 546.97 | 380.9 | -5.4 | 1,992 | 881 | 3,528 | 0 | 256 | 70 | .53 | .00 |
| 24 | 545.61 | 375.3 | -5.6 | 1,959 | 1,003 | 3,461 | 0 | 256 | 37 | .28 | .00 |
| 25 | 544.60 | 371.3 | -4.1 | 2,421 | 1,001 | 3,166 | 0 | 254 | 63 | .48 | .00 |
| 26 | 543.45 | 366.6 | -4.6 | 1,866 | 978 | 2,883 | 0 | 253 | 84 | .65 | .00 |
| 27 | 542.23 | 361.8 | -4.9 | 1,760 | 927 | 2,976 | 0 | 253 | 59 | .46 | .00 |
| 28 | 540.74 | 355.9 | -5.9 | 1,343 | 908 | 3,099 | 0 | 252 | 56 | .44 | .00 |
| 29 | 539.73 | 351.9 | -4.0 | 2,190 | 875 | 3,012 | 0 | 250 | 52 | .41 | .00 |
| 30 | 538.70 | 347.9 | -4.0 | 2,140 | 832 | 3,038 | 0 | 250 | 52 | .41 | .00 |
| 31 | 537.94 | 344.9 | -3.0 | 2,744 | 885 | 3,042 | 0 | 250 | 58 | .46 | .00 |
| **TOTALS** | | | **-138.4** | **73,612** | **30,158** | **103,487** | **0** | **7,748** | **1,980** | **14.27** | **.00** |
| **ACRE-FEET** | | | **-138,370** | **146,009** | **59,818** | **205,266** | **0** | **15,368** | **3,927** | | |

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

**SUMMARY**

| RELEASE (ACRE-FEET) | | | | PRECIPITATION | |
|---|---|---|---|---|---|
| CANALS | | RIVER | | | |
| FRIANT-KERN | 205,266 | AT FRIANT | 15,368 | THIS MONTH = | 0.00 |
| MADERA | 59,818 | TOTAL RELEASES | 280,452 | JULY 1, 2003 TO DATE = | 0.00 |

Table 16

# U.S. Bureau of Reclamation - Central Valley Operations Office

## Delta Outflow Computation (values in c.f.s.)

## July 2003

Estimated numbers are in bold italic print

| | DELTA INFLOW | | | | | | | | | DELTA EXPORTS | | | | | | | OUTFLOW INDEX | | | Export/Inflow | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date | Sacto R @Freeport -prev day- | SRTP -prev wk- | Yolo + Misc -prev day- | East Side Streams -prev day- | S. Joaquin River@Vernalis -prev day- | 7-day Average | Monthly Average | Total Delta Inflow | NDCU | Clifton Court (CLT) | Tracy (TRA) | Contra Costa (CCC) | Byron Bethany (BBID) | NBA | Total Delta Exports | 3-day Avg TRA & CLT | NDOI daily | 7-day Avg | Monthly Avg | Daily (%) | 3 Day (%) | 14 Day (%) |
| 1-Jul-03 | 19,125 | 230 | 0 | 1,293 | 2,295 | 2,246 | 2,281 | 22,943 | 4,300 | 6,680 | 4,342 | 274 | 62 | 106 | 11,341 | 10,296 | 7,302 | 7,106 | 7,302 | 47.8% | 46.1% | 46.7% |
| 2-Jul-03 | 19,692 | 229 | 0 | 1,268 | 2,281 | 2,214 | 2,126 | 23,470 | 4,300 | 6,674 | 4,339 | 268 | 88 | 106 | 11,299 | 11,017 | 7,871 | 7,157 | 7,587 | 46.5% | 47.6% | 50.3% |
| 3-Jul-03 | 19,438 | 228 | 0 | 1,281 | 1,971 | 2,143 | 1,979 | 22,918 | 4,350 | 6,671 | 4,332 | 247 | 59 | 107 | 11,297 | 11,013 | 7,270 | 7,125 | 7,481 | 47.8% | 47.4% | 50.5% |
| 4-Jul-03 | 19,349 | 226 | 0 | 1,290 | 1,685 | 2,058 | 1,893 | 22,550 | 4,350 | 6,678 | 4,340 | 261 | 50 | 98 | 11,326 | 11,011 | 6,874 | 7,207 | 7,330 | 48.6% | 47.6% | 50.7% |
| 5-Jul-03 | 19,598 | 225 | 0 | 1,302 | 1,635 | 1,976 | 1,848 | 22,760 | 4,400 | 6,678 | 4,382 | 259 | 50 | 97 | 11,365 | 11,027 | 6,995 | 7,270 | 7,263 | 48.4% | 48.2% | 50.9% |
| 6-Jul-03 | 19,347 | 224 | 0 | 1,299 | 1,670 | 1,890 | 1,822 | 22,540 | 4,400 | 6,666 | 4,411 | 249 | 50 | 99 | 11,375 | 11,052 | 6,765 | 7,138 | 7,180 | 48.9% | 48.6% | 51.1% |
| 7-Jul-03 | 19,408 | 223 | 0 | 1,301 | 1,690 | 1,808 | 1,808 | 22,622 | 4,400 | 6,674 | 4,402 | 256 | 176 | 106 | 11,260 | 11,071 | 6,962 | 7,149 | 7,149 | 48.2% | 48.5% | 50.8% |
| 8-Jul-03 | 19,538 | 223 | 0 | 1,282 | 1,721 | 1,713 | 1,784 | 22,764 | 4,400 | 7,173 | 4,311 | 262 | 75 | 101 | 11,771 | 11,212 | 6,593 | 7,047 | 7,079 | 50.1% | 49.1% | 51.1% |
| 9-Jul-03 | 20,353 | 223 | 0 | 1,212 | 1,617 | 1,646 | 1,753 | 23,405 | 4,400 | 7,175 | 4,224 | 262 | 67 | 114 | 11,708 | 11,319 | 7,297 | 6,965 | 7,103 | 48.4% | 48.9% | 51.1% |
| 10-Jul-03 | 20,814 | 223 | 0 | 1,105 | 1,506 | 1,609 | 1,720 | 23,648 | 4,400 | 7,171 | 4,244 | 274 | 88 | 106 | 11,707 | 11,432 | 7,541 | 7,004 | 7,147 | 47.9% | 48.8% | 51.1% |
| 11-Jul-03 | 21,138 | 223 | 0 | 1,041 | 1,423 | 1,570 | 1,687 | 23,825 | 4,400 | 7,163 | 4,275 | 272 | 84 | 110 | 11,736 | 11,417 | 7,689 | 7,120 | 7,196 | 47.7% | 48.0% | 50.2% |
| 12-Jul-03 | 21,565 | 223 | 0 | 976 | 1,363 | 1,531 | 1,664 | 24,127 | 4,400 | 7,131 | 4,315 | 228 | 76 | 109 | 11,709 | 11,433 | 8,018 | 7,267 | 7,265 | 47.1% | 47.6% | 49.5% |
| 13-Jul-03 | 21,941 | 223 | 0 | 910 | 1,400 | 1,495 | 1,646 | 24,474 | 4,400 | 7,173 | 4,341 | 229 | 76 | 107 | 11,775 | 11,466 | 8,299 | 7,486 | 7,344 | 46.7% | 47.2% | 49.1% |
| 14-Jul-03 | 22,683 | 223 | 0 | 592 | 1,434 | 1,452 | 1,630 | 24,932 | 4,400 | 7,175 | 4,302 | 233 | 17 | 108 | 11,802 | 11,479 | 8,730 | 7,738 | 7,443 | 46.0% | 46.6% | 48.9% |
| 15-Jul-03 | 23,177 | 223 | 0 | 485 | 1,424 | 1,411 | 1,610 | 25,309 | 4,400 | 7,171 | 4,353 | 231 | 63 | 104 | 11,797 | 11,505 | 9,112 | 8,098 | 7,555 | 45.3% | 46.0% | 48.7% |
| 16-Jul-03 | 23,320 | 223 | 0 | 448 | 1,330 | 1,383 | 1,591 | 25,321 | 4,400 | 7,060 | 4,338 | 228 | 69 | 113 | 11,671 | 11,467 | 9,250 | 8,377 | 7,661 | 44.7% | 45.3% | 48.3% |
| 17-Jul-03 | 23,646 | 223 | 0 | 552 | 1,305 | 1,369 | 1,575 | 25,726 | 4,400 | 6,613 | 4,349 | 232 | 67 | 112 | 11,240 | 11,295 | 10,086 | 8,741 | 7,803 | 42.4% | 44.1% | 47.1% |
| 18-Jul-03 | 23,296 | 223 | 0 | 512 | 1,325 | 1,366 | 1,562 | 25,356 | 4,400 | 6,473 | 4,395 | 245 | 77 | 106 | 11,143 | 11,077 | 9,813 | 9,044 | 7,915 | 42.6% | 43.2% | 45.7% |
| 19-Jul-03 | 22,780 | 223 | 0 | 602 | 1,343 | 1,368 | 1,554 | 24,948 | 4,400 | 6,502 | 4,498 | 247 | 60 | 107 | 11,293 | 10,943 | 9,255 | 9,221 | 7,985 | 43.8% | 42.9% | 44.9% |
| 20-Jul-03 | 22,495 | 223 | 0 | 617 | 1,412 | 1,358 | 1,545 | 24,747 | 4,350 | 6,615 | 4,416 | 240 | 60 | 108 | 11,320 | 10,966 | 9,077 | 9,332 | 8,040 | 44.3% | 43.6% | 44.7% |
| 21-Jul-03 | 22,809 | 223 | 0 | 733 | 1,366 | 1,348 | 1,536 | 25,131 | 4,350 | 6,625 | 4,364 | 247 | 81 | 108 | 11,263 | 11,006 | 9,518 | 9,444 | 8,110 | 43.4% | 43.9% | 44.6% |
| 22-Jul-03 | 23,028 | 223 | 0 | 627 | 1,352 | 1,348 | 1,527 | 25,230 | 4,350 | 6,637 | 4,384 | 118 | 64 | 112 | 11,187 | 11,014 | 9,693 | 9,527 | 8,182 | 43.4% | 43.7% | 44.3% |
| 23-Jul-03 | 22,950 | 224 | 0 | 562 | 1,333 | 1,343 | 1,516 | 25,069 | 4,350 | 6,655 | 4,384 | 302 | 68 | 112 | 11,386 | 11,016 | 9,333 | 9,539 | 8,232 | 43.8% | 43.5% | 44.1% |
| 24-Jul-03 | 23,520 | 224 | 0 | 440 | 1,273 | 1,341 | 1,507 | 25,457 | 4,350 | 6,670 | 4,353 | 319 | 80 | 110 | 11,373 | 11,028 | 9,734 | 9,489 | 8,295 | 43.0% | 43.4% | 43.9% |
| 25-Jul-03 | 23,671 | 225 | 0 | 415 | 1,305 | 1,339 | 1,500 | 25,616 | 4,300 | 6,670 | 4,356 | 327 | 90 | 109 | 11,372 | 11,030 | 9,943 | 9,508 | 8,361 | 42.7% | 43.1% | 43.6% |
| 26-Jul-03 | 23,560 | 225 | 0 | 415 | 1,330 | 1,325 | 1,493 | 25,530 | 4,300 | 6,657 | 3,779 | 322 | 60 | 107 | 10,804 | 10,829 | 10,426 | 9,675 | 8,440 | 40.6% | 42.1% | 42.7% |
| 27-Jul-03 | 24,317 | 226 | 0 | 467 | 1,318 | 1,337 | 1,491 | 26,328 | 4,300 | 6,672 | 3,511 | 304 | 60 | 108 | 10,535 | 10,549 | 11,492 | 10,020 | 8,553 | 38.5% | 40.6% | 41.4% |
| 28-Jul-03 | 24,562 | 226 | 0 | 614 | 1,445 | 1,350 | 1,489 | 26,847 | 4,250 | 5,993 | 3,530 | 296 | 94 | 105 | 9,831 | 10,048 | 12,766 | 10,484 | 8,704 | 35.1% | 38.0% | 39.2% |
| 29-Jul-03 | 24,876 | 226 | 0 | 702 | 1,444 | 1,369 | 1,489 | 27,248 | 4,250 | 5,986 | 3,500 | 259 | 65 | 103 | 9,784 | 9,731 | 13,214 | 10,987 | 8,859 | 34.6% | 36.0% | 37.7% |
| 30-Jul-03 | 25,288 | 228 | 0 | 704 | 1,466 | 1,386 | 1,485 | 27,686 | 4,250 | 5,999 | 3,444 | 258 | 77 | 102 | 9,727 | 9,484 | 13,708 | 11,612 | 9,021 | 33.8% | 34.5% | 36.5% |
| 31-Jul-03 | 25,464 | 229 | 0 | 717 | 1,396 | 1,394 | 1,481 | 27,806 | 4,200 | 5,989 | 3,446 | 241 | 59 | 97 | 9,715 | 9,455 | 13,891 | 12,206 | 9,178 | 33.7% | 34.0% | 36.2% |
| Total | 686,748 | 6,963 | 0 | 25,764 | 46,858 | 48,484 | 51,592 | 766,333 | 134,900 | 207,868 | 129,962 | 7,991 | 2,213 | 3,302 | 346,911 | 338,686 | 284,522 | 266,086 | 242,766 | 1365.8% | 1378.2% | 1435.5% |
| Average | 22,153 | 225 | 0 | 831 | 1,512 | 1,564 | 1,664 | 24,720 | 4,352 | 6,705 | 4,192 | 258 | 71 | 107 | 11,191 | 10,925 | 9,178 | 8,583 | | 44.1% | 44.5% | 46.3% |

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

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
STATE WATER PROJECT

**Table 17**

**JULY 2003**

# CONSOLIDATED STATE-FEDERAL SAN LUIS RESERVOIR DAILY OPERATIONS

RUN DATE: August 28, 2003

| DAY | ELEV | STORAGE ACRE-FEET IN LAKE | STORAGE ACRE-FEET CHANGE | SAN LUIS PUMPING C.F.S. | RELEASE - C.F.S. POWER | RELEASE - C.F.S. PACHECO TUNNEL | RELEASE - C.F.S. SPILL | GAIN(+) OR LOSS(-) C.F.S. | EVAPORATION C.F.S. | EVAPORATION INCHES | PRECIP INCHES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1,217,645 | | | | | | | | | |
| 1 | 472.91 | 1,207,947 | -9,698 | 382 | 4,426 | 296 | 0 | -549 | 200 | .58 | .00 |
| 2 | 472.68 | 1,205,499 | -2,448 | 1,331 | 2,237 | 292 | 0 | -36 | 190 | .55 | .00 |
| 3 | 472.14 | 1,199,759 | -5,740 | 1,614 | 4,244 | 330 | 0 | +65 | 186 | .54 | .00 |
| 4 | 471.47 | 1,192,650 | -7,109 | 0 | 3,351 | 323 | 0 | +90 | 189 | .55 | .00 |
| 5 | 470.50 | 1,182,381 | -10,269 | 0 | 4,758 | 314 | 0 | -105 | 257 | .75 | .00 |
| 6 | 469.77 | 1,174,672 | -7,709 | 0 | 3,336 | 284 | 0 | -267 | 267 | .78 | .00 |
| 7 | 469.08 | 1,167,400 | -7,272 | 0 | 3,326 | 237 | 0 | -102 | 235 | .69 | .00 |
| 8 | 468.59 | 1,162,245 | -5,155 | 0 | 2,212 | 287 | 0 | -99 | 222 | .65 | .00 |
| 9 | 467.69 | 1,152,796 | -9,449 | 1,783 | 6,003 | 308 | 0 | -236 | 204 | .60 | .00 |
| 10 | 466.97 | 1,145,254 | -7,542 | 1,010 | 4,630 | 332 | 0 | +149 | 217 | .64 | .00 |
| 11 | 465.63 | 1,131,260 | -13,994 | 0 | 6,772 | 325 | 0 | +42 | 196 | .58 | .00 |
| 12 | 464.74 | 1,121,997 | -9,263 | 0 | 4,374 | 327 | 0 | +31 | 209 | .62 | .00 |
| 13 | 463.78 | 1,112,033 | -9,964 | 0 | 4,700 | 320 | 0 | -4 | 255 | .76 | .00 |
| 14 | 462.89 | 1,102,821 | -9,212 | 0 | 4,353 | 330 | 0 | +39 | 240 | .72 | .00 |
| 15 | 461.91 | 1,092,707 | -10,114 | 0 | 4,765 | 336 | 0 | +2 | 216 | .65 | .00 |
| 16 | 461.18 | 1,085,192 | -7,515 | 1,163 | 4,678 | 357 | 0 | +84 | 239 | .72 | .00 |
| 17 | 459.88 | 1,071,853 | -13,339 | 0 | 6,145 | 345 | 0 | -235 | 235 | .71 | .00 |
| 18 | 458.47 | 1,057,446 | -14,407 | 0 | 6,692 | 358 | 0 | -214 | 214 | .65 | .00 |
| 19 | 457.07 | 1,043,204 | -14,242 | 0 | 6,546 | 373 | 0 | -262 | 262 | .80 | .00 |
| 20 | 456.18 | 1,034,184 | -9,020 | 0 | 4,172 | 362 | 0 | -13 | 245 | .75 | .00 |
| 21 | 454.75 | 1,019,745 | -14,439 | 0 | 7,146 | 353 | 0 | +219 | 218 | .67 | .00 |
| 22 | 453.51 | 1,007,279 | -12,466 | 0 | 5,667 | 354 | 0 | -264 | 224 | .69 | .00 |
| 23 | 452.79 | 1,000,064 | -7,215 | 1,374 | 4,531 | 354 | 0 | -126 | 201 | .62 | .00 |
| 24 | 451.78 | 989,972 | -10,092 | 588 | 5,344 | 355 | 0 | +23 | 216 | .67 | .00 |
| 25 | 450.65 | 978,721 | -11,251 | 0 | 5,046 | 384 | 0 | -242 | 242 | .75 | .00 |
| 26 | 449.63 | 968,603 | -10,118 | 0 | 4,482 | 356 | 0 | -263 | 263 | .82 | .00 |
| 27 | 449.09 | 963,260 | -5,343 | 0 | 2,292 | 355 | 0 | -47 | 208 | .65 | .00 |
| 28 | 447.97 | 952,211 | -11,049 | 0 | 5,319 | 337 | 0 | +86 | 217 | .68 | .00 |
| 29 | 446.75 | 940,223 | -11,988 | 0 | 5,640 | 353 | 0 | -51 | 207 | .65 | .00 |
| 30 | 445.60 | 928,970 | -11,253 | 0 | 5,332 | 354 | 0 | +13 | 281 | .89 | .00 |
| 31 | 444.51 | 918,347 | -10,623 | 0 | 5,159 | 346 | 0 | +150 | 189 | .60 | .00 |
| **TOTALS** | | | **-299,298** | **9,245** | **147,678** | **10,337** | **0** | **-2,122** | **6,944** | **20.98** | **.00** |
| **ACRE-FEET** | | | **-299,298** | **18,337** | **292,919** | **20,503** | **0** | **-4,209** | **13,773** | | |

**SUMMARY**

| RELEASE (ACRE-FEET) | | | | PRECIPITATION | |
|---|---|---|---|---|---|
| POWER | 292,919 | SPILL | 0 | THIS MONTH = | .00 |
| PACHECO TUNNEL | 20,503 | TOTAL | 313,422 | JULY 1, 2003 TO DATE = | .00 |

UNITED STATES
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**Table 18**

**JULY 2003**

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

RUN DATE: August 28, 2003

| DAY | ELEV | STORAGE ACRE-FEET IN LAKE | STORAGE ACRE-FEET CHANGE | INFLOW - C.F.S O'NEILL PUMPING | INFLOW - C.F.S S. LUIS GEN. | INFLOW - C.F.S CALIF. AQUEDUCT | RELEASE - C.F.S. O'NEILL GEN. | RELEASE - C.F.S. S. LUIS PUMPING | RELEASE - C.F.S. DOS AMIGOS PUMPING | * DELIV. | GAINS(+) OR LOSS(-) C.F.S. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 47,362 | | | | | | | | | |
| 1 | 222.07 | 48,571 | +1,209 | 478 | 4,426 | 6,188 | 100 | 382 | 10,284 | | +283 |
| 2 | 220.57 | 44,635 | -3,936 | 393 | 2,237 | 6,262 | 0 | 1,331 | 9,533 | | -13 |
| 3 | 220.23 | 43,749 | -886 | 348 | 4,244 | 5,709 | 148 | 1,614 | 9,497 | | +512 |
| 4 | 220.04 | 43,256 | -493 | 406 | 3,351 | 6,012 | 233 | 0 | 10,022 | | +237 |
| 5 | 220.52 | 44,505 | +1,249 | 396 | 4,758 | 5,507 | 224 | 0 | 9,775 | | -33 |
| 6 | 220.14 | 43,515 | -990 | 395 | 3,336 | 6,192 | 231 | 0 | 10,611 | | +420 |
| 7 | 220.50 | 44,453 | +938 | 435 | 3,326 | 5,927 | 232 | 0 | 9,356 | | +373 |
| 8 | 219.94 | 42,997 | -1,456 | 391 | 2,212 | 6,026 | 233 | 0 | 9,239 | | +109 |
| 9 | 220.21 | 43,697 | +700 | 142 | 6,003 | 5,831 | 89 | 1,783 | 10,012 | | +261 |
| 10 | 219.77 | 42,557 | -1,140 | 0 | 4,630 | 6,453 | 0 | 1,010 | 11,206 | | +559 |
| 11 | 220.98 | 45,708 | +3,151 | 0 | 6,772 | 6,153 | 190 | 0 | 11,049 | | -98 |
| 12 | 220.99 | 45,734 | +26 | 0 | 4,374 | 6,285 | 267 | 0 | 10,494 | | +116 |
| 13 | 220.03 | 43,230 | -2,504 | 0 | 4,700 | 6,484 | 260 | 0 | 12,442 | | +256 |
| 14 | 220.31 | 43,957 | +727 | 0 | 4,353 | 6,114 | 225 | 0 | 10,199 | | +322 |
| 15 | 220.49 | 44,427 | +470 | 0 | 4,765 | 6,320 | 79 | 0 | 10,743 | | -26 |
| 16 | 219.50 | 41,862 | -2,565 | 0 | 4,678 | 6,413 | 0 | 1,163 | 11,541 | | +319 |
| 17 | 219.70 | 42,376 | +514 | 0 | 6,145 | 5,750 | 271 | 0 | 12,011 | | +645 |
| 18 | 220.70 | 44,975 | +2,599 | 0 | 6,692 | 5,911 | 365 | 0 | 11,360 | | +432 |
| 19 | 221.50 | 47,073 | +2,098 | 0 | 6,546 | 5,731 | 280 | 0 | 11,380 | | +442 |
| 20 | 220.31 | 43,957 | -3,116 | 0 | 4,172 | 5,774 | 198 | 0 | 11,271 | | -47 |
| 21 | 221.63 | 47,414 | +3,457 | 307 | 7,146 | 5,593 | 256 | 0 | 11,196 | | +150 |
| 22 | 222.07 | 48,571 | +1,157 | 429 | 5,667 | 5,676 | 331 | 0 | 10,890 | | +33 |
| 23 | 221.02 | 45,813 | -2,758 | 152 | 4,531 | 5,881 | 124 | 1,374 | 10,681 | | +224 |
| 24 | 221.12 | 46,075 | +262 | 0 | 5,344 | 5,934 | 0 | 588 | 10,791 | | +234 |
| 25 | 221.34 | 46,653 | +578 | 0 | 5,046 | 5,757 | 0 | 0 | 11,067 | | +555 |
| 26 | 221.57 | 47,257 | +604 | 0 | 4,482 | 5,938 | 419 | 0 | 10,316 | | +620 |
| 27 | 219.40 | 41,605 | -5,652 | 0 | 2,292 | 5,640 | 654 | 0 | 10,401 | | +275 |
| 28 | 220.00 | 43,152 | +1,547 | 0 | 5,319 | 5,073 | 487 | 0 | 9,267 | | +142 |
| 29 | 220.90 | 45,498 | +2,346 | 0 | 5,640 | 5,123 | 434 | 0 | 9,396 | | +249 |
| 30 | 221.17 | 46,206 | +708 | 0 | 5,332 | 5,113 | 703 | 0 | 9,508 | | +123 |
| 31 | 221.16 | 46,180 | -26 | 0 | 5,159 | 5,264 | 915 | 0 | 9,705 | | +1,474 |
| **TOTALS** | | | **-1,182** | **4,272** | **147,678** | **182,034** | **7,948** | **9,245** | **325,243** | | **+9,148** |
| **ACRE-FEET** | | | **-1,182** | **8,474** | **292,919** | **361,064** | **15,765** | **18,337** | **645,119** | **2,560** | **18,145** |

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

**SUMMARY**

RELEASE (ACRE-FEET)

| | | | | | |
|---|---|---|---|---|---|
| O'NEILL GEN. | 15,765 | DOS AMIGOS PUMP | 645,119 | | |
| SAN LUIS PUMP | 18,337 | DELIVERIES | 2,560 | TOTAL | 681,781 |

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

**Table 19**

**JULY 2003**

## FEDERAL-STATE OPERATIONS
## SAN LUIS UNIT

RUN DATE: August 28, 2003

| | AQUEDUCT CHECK 12 | | | O'NEILL PUMPING | | | O'NEILL GENER | SAN LUIS PUMPING | | | SAN LUIS GENERATION | | | PACHECO | DOS AMIGOS | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | STATE | FED | TOTAL | FED | STATE | TOTAL | TOTAL | FED | STATE | TOTAL | FED | STATE | TOTAL | PUMP | FED | STATE | TOTAL |
| 1 | 12,274 | 0 | 12,274 | 948 | 0 | 948 | 199 | 0 | 757 | 757 | 9,078 | -299 | 8,779 | 587 | 7,851 | 12,547 | 20,398 |
| 2 | 12,421 | 0 | 12,421 | 780 | 0 | 780 | 0 | 0 | 2,640 | 2,640 | 4,399 | 39 | 4,438 | 579 | 7,853 | 11,056 | 18,909 |
| 3 | 11,323 | 0 | 11,323 | 690 | 0 | 690 | 293 | 0 | 3,202 | 3,202 | 6,255 | 2,162 | 8,417 | 654 | 7,736 | 11,101 | 18,837 |
| 4 | 11,925 | 0 | 11,925 | 805 | 0 | 805 | 463 | 0 | 0 | 0 | 6,306 | 341 | 6,647 | 640 | 7,686 | 12,192 | 19,878 |
| 5 | 10,924 | 0 | 10,924 | 786 | 0 | 786 | 445 | 0 | 0 | 0 | 8,733 | 705 | 9,438 | 622 | 7,741 | 11,648 | 19,389 |
| 6 | 12,281 | 0 | 12,281 | 783 | 0 | 783 | 458 | 0 | 0 | 0 | 6,177 | 439 | 6,616 | 563 | 7,783 | 13,263 | 21,046 |
| 7 | 11,756 | 0 | 11,756 | 863 | 0 | 863 | 461 | 0 | 0 | 0 | 6,390 | 208 | 6,598 | 471 | 7,734 | 10,824 | 18,558 |
| 8 | 11,952 | 0 | 11,952 | 775 | 0 | 775 | 462 | 0 | 0 | 0 | 4,215 | 173 | 4,388 | 570 | 7,739 | 10,587 | 18,326 |
| 9 | 11,566 | 0 | 11,566 | 282 | 0 | 282 | 177 | 0 | 3,537 | 3,537 | 8,566 | 3,341 | 11,907 | 611 | 7,566 | 12,292 | 19,858 |
| 10 | 12,800 | 0 | 12,800 | 0 | 0 | 0 | 0 | 0 | 2,004 | 2,004 | 7,174 | 2,009 | 9,183 | 659 | 7,654 | 14,573 | 22,227 |
| 11 | 12,205 | 0 | 12,205 | 0 | 0 | 0 | 377 | 0 | 0 | 0 | 8,510 | 4,923 | 13,433 | 645 | 7,581 | 14,335 | 21,916 |
| 12 | 12,466 | 0 | 12,466 | 0 | 0 | 0 | 530 | 0 | 0 | 0 | 6,782 | 1,893 | 8,675 | 649 | 7,606 | 13,209 | 20,815 |
| 13 | 12,861 | 0 | 12,861 | 0 | 0 | 0 | 515 | 0 | 0 | 0 | 6,482 | 2,840 | 9,322 | 635 | 7,583 | 17,096 | 24,679 |
| 14 | 12,128 | 0 | 12,128 | 0 | 0 | 0 | 446 | 0 | 0 | 0 | 6,387 | 2,248 | 8,635 | 655 | 7,662 | 12,567 | 20,229 |
| 15 | 12,535 | 0 | 12,535 | 0 | 0 | 0 | 156 | 0 | 0 | 0 | 8,059 | 1,392 | 9,451 | 666 | 7,537 | 13,772 | 21,309 |
| 16 | 12,720 | 0 | 12,720 | 0 | 0 | 0 | 0 | 0 | 2,306 | 2,306 | 6,099 | 3,180 | 9,279 | 709 | 7,699 | 15,192 | 22,891 |
| 17 | 11,406 | 0 | 11,406 | 0 | 0 | 0 | 537 | 0 | 0 | 0 | 6,865 | 5,324 | 12,189 | 684 | 7,667 | 16,156 | 23,823 |
| 18 | 11,725 | 0 | 11,725 | 0 | 0 | 0 | 723 | 0 | 0 | 0 | 6,979 | 6,294 | 13,273 | 710 | 7,678 | 14,854 | 22,532 |
| 19 | 11,367 | 0 | 11,367 | 0 | 0 | 0 | 556 | 0 | 0 | 0 | 7,714 | 5,269 | 12,983 | 739 | 7,690 | 14,882 | 22,572 |
| 20 | 11,452 | 0 | 11,452 | 0 | 0 | 0 | 393 | 0 | 0 | 0 | 3,160 | 5,116 | 8,276 | 718 | 7,628 | 14,729 | 22,357 |
| 21 | 11,094 | 0 | 11,094 | 608 | 0 | 608 | 508 | 0 | 0 | 0 | 7,561 | 6,613 | 14,174 | 700 | 7,617 | 14,591 | 22,208 |
| 22 | 11,258 | 0 | 11,258 | 851 | 0 | 851 | 657 | 0 | 0 | 0 | 7,898 | 3,342 | 11,240 | 702 | 7,579 | 14,022 | 21,601 |
| 23 | 11,664 | 0 | 11,664 | 301 | 0 | 301 | 246 | 0 | 2,725 | 2,725 | 5,912 | 3,076 | 8,988 | 702 | 7,626 | 13,559 | 21,185 |
| 24 | 11,770 | 0 | 11,770 | 0 | 0 | 0 | 0 | 0 | 1,167 | 1,167 | 5,924 | 4,675 | 10,599 | 705 | 7,803 | 13,601 | 21,404 |
| 25 | 11,420 | 0 | 11,420 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6,206 | 3,803 | 10,009 | 762 | 7,782 | 14,170 | 21,952 |
| 26 | 11,779 | 0 | 11,779 | 0 | 0 | 0 | 832 | 0 | 0 | 0 | 7,606 | 1,284 | 8,890 | 706 | 7,780 | 12,682 | 20,462 |
| 27 | 11,186 | 0 | 11,186 | 0 | 0 | 0 | 1,298 | 0 | 0 | 0 | 4,444 | 102 | 4,546 | 704 | 7,707 | 12,924 | 20,631 |
| 28 | 10,062 | 0 | 10,062 | 0 | 0 | 0 | 966 | 0 | 0 | 0 | 8,879 | 1,672 | 10,551 | 668 | 7,707 | 10,675 | 18,382 |
| 29 | 10,162 | 0 | 10,162 | 0 | 0 | 0 | 860 | 0 | 0 | 0 | 7,927 | 3,259 | 11,186 | 701 | 7,816 | 10,820 | 18,636 |
| 30 | 10,142 | 0 | 10,142 | 0 | 0 | 0 | 1,394 | 0 | 0 | 0 | 9,014 | 1,563 | 10,577 | 702 | 7,736 | 11,124 | 18,860 |
| 31 | 10,441 | 0 | 10,441 | 0 | 0 | 0 | 1,815 | 0 | 0 | 0 | 9,036 | 1,197 | 10,233 | 687 | 7,770 | 11,479 | 19,249 |

| AQUEDUCT CHECK 12 | | O'NIELL PUMPING | | O'NIELL GENERATION | | SAN LUIS PUMPING | | SAN LUIS GENERATION | | PACHECO PUMPING | | DOS AMIGOS | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TOTAL | 361,065 | TOTAL | 8,472 | TOTAL | 15,767 | TOTAL | 18,338 | TOTAL | 292,920 | TOTAL | 20,505 | TOTAL | 645,119 |
| FEDERAL | 0 | FEDERAL | 8,472 | | | FEDERAL | 0 | FEDERAL | 214,737 | | | FEDERAL | 238,597 |
| STATE | 361,065 | STATE | 0 | | | STATE | 18,338 | STATE | 78,183 | | | STATE | 406,522 |
| | | | | | | | | | | | | 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**

**JULY 2003**

## FEDERAL-STATE OPERATIONS

RUN DATE: August 28, 2003

| DAY | TRACY PUMPING FED | TRACY PUMPING STATE | TRACY PUMPING TOTAL | CLIFT COURT TOTAL | DELTA PUMPING PLANT STATE | DELTA PUMPING PLANT FED | DELTA PUMPING PLANT TOTAL | FED BANKS XVC | STATE DOS AMIGOS XVC | BYRON BETHANY TOTAL | AQEDUCT CHECK 21 STATE | AQEDUCT CHECK 21 FED | AQEDUCT CHECK 21 TOTAL | DMC-POOL DEMANDS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 8,613 | 0 | 8,613 | 13,249 | 13,297 | 0 | 13,297 | 0 | 0 | 123 | 14,048 | 0 | 14,048 | 7,864 |
| 2 | 8,606 | 0 | 8,606 | 13,238 | 13,020 | 0 | 13,020 | 0 | 0 | 175 | 13,023 | 0 | 13,023 | 7,826 |
| 3 | 8,592 | 0 | 8,592 | 13,232 | 13,071 | 0 | 13,071 | 0 | 0 | 118 | 12,973 | 0 | 12,973 | 8,195 |
| 4 | 8,608 | 0 | 8,608 | 13,245 | 13,081 | 0 | 13,081 | 0 | 0 | 100 | 13,690 | 0 | 13,690 | 8,266 |
| 5 | 8,692 | 0 | 8,692 | 13,245 | 13,038 | 0 | 13,038 | 0 | 0 | 100 | 13,353 | 0 | 13,353 | 8,351 |
| 6 | 8,749 | 0 | 8,749 | 13,223 | 13,015 | 0 | 13,015 | 0 | 0 | 100 | 14,494 | 0 | 14,494 | 8,424 |
| 7 | 8,731 | 0 | 8,731 | 13,237 | 13,016 | 0 | 13,016 | 0 | 0 | 350 | 12,781 | 0 | 12,781 | 8,329 |
| 8 | 8,550 | 0 | 8,550 | 14,227 | 13,842 | 0 | 13,842 | 0 | 0 | 149 | 12,621 | 0 | 12,621 | 8,237 |
| 9 | 8,378 | 0 | 8,378 | 14,231 | 13,841 | 0 | 13,841 | 0 | 0 | 132 | 13,676 | 0 | 13,676 | 8,273 |
| 10 | 8,418 | 0 | 8,418 | 14,223 | 13,897 | 0 | 13,897 | 0 | 0 | 175 | 15,308 | 0 | 15,308 | 8,418 |
| 11 | 8,480 | 0 | 8,480 | 14,208 | 13,848 | 0 | 13,848 | 0 | 0 | 167 | 15,094 | 0 | 15,094 | 8,857 |
| 12 | 8,559 | 0 | 8,559 | 14,145 | 13,909 | 0 | 13,909 | 0 | 0 | 150 | 14,335 | 0 | 14,335 | 9,089 |
| 13 | 8,610 | 0 | 8,610 | 14,227 | 13,926 | 0 | 13,926 | 0 | 0 | 150 | 16,996 | 0 | 16,996 | 9,125 |
| 14 | 8,534 | 0 | 8,534 | 14,231 | 14,004 | 0 | 14,004 | 0 | 0 | 33 | 13,932 | 0 | 13,932 | 8,980 |
| 15 | 8,634 | 0 | 8,634 | 14,224 | 13,927 | 0 | 13,927 | 0 | 0 | 125 | 14,676 | 0 | 14,676 | 8,790 |
| 16 | 8,605 | 0 | 8,605 | 14,004 | 13,910 | 0 | 13,910 | 0 | 0 | 137 | 15,765 | 0 | 15,765 | 8,605 |
| 17 | 8,627 | 0 | 8,627 | 13,117 | 12,942 | 0 | 12,942 | 0 | 0 | 132 | 16,407 | 0 | 16,407 | 9,164 |
| 18 | 8,718 | 0 | 8,718 | 12,840 | 12,989 | 0 | 12,989 | 0 | 0 | 152 | 15,518 | 0 | 15,518 | 9,441 |
| 19 | 8,921 | 0 | 8,921 | 12,896 | 12,970 | 0 | 12,970 | 0 | 0 | 120 | 15,545 | 0 | 15,545 | 9,477 |
| 20 | 8,760 | 0 | 8,760 | 13,121 | 12,980 | 0 | 12,980 | 0 | 0 | 120 | 15,397 | 0 | 15,397 | 9,153 |
| 21 | 8,656 | 0 | 8,656 | 13,140 | 12,894 | 0 | 12,894 | 0 | 0 | 160 | 15,295 | 0 | 15,295 | 8,556 |
| 22 | 8,695 | 0 | 8,695 | 13,164 | 12,907 | 0 | 12,907 | 0 | 0 | 127 | 14,877 | 0 | 14,877 | 8,501 |
| 23 | 8,696 | 0 | 8,696 | 13,200 | 12,894 | 0 | 12,894 | 0 | 0 | 134 | 14,590 | 0 | 14,590 | 8,641 |
| 24 | 8,635 | 0 | 8,635 | 13,230 | 12,879 | 0 | 12,879 | 0 | 0 | 158 | 14,741 | 0 | 14,741 | 8,635 |
| 25 | 8,641 | 0 | 8,641 | 13,230 | 12,923 | 0 | 12,923 | 0 | 0 | 178 | 15,118 | 0 | 15,118 | 8,641 |
| 26 | 7,496 | 0 | 7,496 | 13,204 | 12,933 | 0 | 12,933 | 0 | 0 | 120 | 14,092 | 0 | 14,092 | 8,328 |
| 27 | 6,965 | 0 | 6,965 | 13,234 | 12,899 | 0 | 12,899 | 0 | 0 | 120 | 14,209 | 0 | 14,209 | 8,263 |
| 28 | 7,001 | 0 | 7,001 | 11,888 | 11,528 | 0 | 11,528 | 0 | 0 | 187 | 12,660 | 0 | 12,660 | 7,967 |
| 29 | 6,942 | 0 | 6,942 | 11,874 | 11,552 | 0 | 11,552 | 0 | 0 | 128 | 12,835 | 0 | 12,835 | 7,802 |
| 30 | 6,832 | 0 | 6,832 | 11,899 | 11,683 | 0 | 11,683 | 0 | 0 | 152 | 12,989 | 0 | 12,989 | 8,226 |
| 31 | 6,836 | 0 | 6,836 | 11,880 | 11,740 | 0 | 11,740 | 0 | 0 | 118 | 13,257 | 0 | 13,257 | 8,651 |
| **TOTALS** | **257,780** | **0** | **257,780** | **412,306** | **405,355** | **0** | **405,355** | **0** | **0** | **4,390** | **444,295** | **0** | **444,295** | **265,075** |

COMMENTS: ALL VALUES IN ACRE-FEET

TOTAL TRACY: 07/26/03 - Decrease in pumping due to Jersey Water Quality.

TOTAL TRACY: 07/27/03 - Decrease in pumping due to Jersey Water Quality.

TOTAL TRACY: 07/28/03 - Decrease in pumping due to Jersey Water Quality.

TOTAL TRACY: 07/29/03 - Decrease in pumping due to Jersey Water Quality.

TOTAL TRACY: 07/30/03 - Decrease in pumping due to Jersey Water Quality.

TOTAL TRACY: 07/31/03 - Decrease in pumping due to Jersey Water Quality.

TOTAL CHECK 21: 08/18/03 - DWR updated Flow past Check 21 from 459,885 af to 444,295 af for the month of July 2003 due to bad flow meter readings.

**Table 21**

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

**Central Valley Project - California**
**2003**

Monthly Diversions in AF

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **CANALS** | | | | | | | | | | | | | |
| Contra Costa | 12956 | 14249 | 15412 | 16333 | 15139 | 12943 | 15822 | | | | | | 102854 |
| Delta-Mendota | 261583 | 236924 | 267282 | 112816 | 89901 | 262129 | 257780 | | | | | | 1488415 |
| Actual Fed Dos Amigos | 62174 | 84109 | 70926 | 80774 | 85819 | 177721 | NA | | | | | | 561523 |
| Madera | 0 | 0 | 0 | 13220 | 44954 | 223582 | 59818 | | | | | | 341574 |
| Friant-Kern | 11709 | 25236 | 22047 | 76355 | 186269 | 57143 | 205266 | | | | | | 584025 |
| Corning | 0 | 258 | 0 | 115 | 1452 | 3628 | 4064 | | | | | | 9517 |
| Folsom-South | 2434 | 2150 | 1503 | 2168 | 2684 | 2678 | 2737 | | | | | | 16354 |
| Sly Park - Camino Conduit | 1041 | 922 | 1079 | 1073 | 1906 | 3882 | 4657 | | | | | | 14560 |
| Tehama-Colusa | 0 | 1519 | 4300 | 11669 | 31714 | 58521 | 59904 | | | | | | 167627 |
| **CACHUMA PROJECT** | | | | | | | | | | | | | |
| Tecolete Tunnel | 2158 | 1838 | 2197 | 1073 | 2172 | 2319 | 3208 | | | | | | 14965 |
| **KLAMATH PROJECT** | | | | | | | | | | | | | |
| "A" Canal Upper Klamath | 0 | 0 | 0 | 0 | 25680 | 42640 | 60400 | | | | | | 128720 |
| Klamath Drainage District | 12524 | 10825 | 9861 | 2831 | 2320 | 12547 | 11822 | | | | | | 62730 |
| Clear Lake Reservoir | 0 | 0 | 0 | 0 | 2340 | 20860 | 3490 | | | | | | 26690 |
| Gerber Reservoir | 0 | 0 | 0 | 0 | 2100 | 9960 | 4360 | | | | | | 16420 |
| Klamath River to Lost River | 0 | 0 | 0 | 0 | 0 | 17607 | 9608 | | | | | | 27215 |
| **ORLAND PROJECT** | | | | | | | | | | | | | |
| Stony Creek | 0 | 0 | 0 | 0 | 8503 | 18847 | 19686 | | | | | | 47036 |
| South Canal | 0 | 0 | 0 | 0 | 6383 | 12891 | 13601 | | | | | | 32875 |
| North Canal | 0 | 0 | 0 | 0 | 2120 | 5956 | 6085 | | | | | | 14161 |
| **SOLANO PROJECT** | | | | | | | | | | | | | |
| Putah South Canal | 3733 | 3201 | 4923 | 9362 | 17340 | 32490 | 37256 | | | | | | 108305 |

**Table 22**

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

**Friant-Kern Canal**
**2003**

Monthly Deliveries in AF

| Water User | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alpaugh ID | 0 | 0 | 0 | 0 | 0 | 114 | 0 | | | | | | 0 |
| Arvin-Edison WSD | 1707 | 2374 | 0 | 20465 | 51429 | 17279 | 0 | | | | | | 93254 |
| Atwell Island WD | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | 0 |
| Delano-Earlimart ID | 0 | 2960 | 3771 | 7150 | 15362 | 25234 | 26958 | | | | | | 81435 |
| Exeter ID | 0 | 10 | 79 | 136 | 679 | 2025 | 2909 | | | | | | 5838 |
| City of Fresno | 0 | 837 | 4 | 7 | 15 | 0 | 25830 | | | | | | 26693 |
| County of Fresno SA #34 | 4 | 3 | 20 | 15 | 48 | 79 | 95 | | | | | | 264 |
| Fresno ID | 0 | 0 | 0 | 0 | 67 | 169 | 3651 | | | | | | 3887 |
| Garfield WD | 0 | 0 | 61 | 174 | 278 | 491 | 525 | | | | | | 1529 |
| Hills Valley ID | 0 | 0 | 17 | 33 | 404 | 699 | 905 | | | | | | 2058 |
| International WD | 25 | 53 | 0 | 89 | 64 | 252 | 259 | | | | | | 742 |
| Ivanhoe ID | 0 | 0 | 0 | 952 | 2513 | 1341 | 2250 | | | | | | 7056 |
| Kaweah Delta WCD | 0 | 0 | 0 | 0 | 0 | 386 | 0 | | | | | | 386 |
| Kern County Water Agency | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | 0 |
| Kern-Tulare WD | 0 | 0 | 1715 | 1734 | 978 | 4247 | 4863 | | | | | | 13537 |
| Kings County WD | 0 | 0 | 0 | 0 | 0 | 376 | 0 | | | | | | 376 |
| Kings River CD | 0 | 0 | 0 | 0 | 0 | 3457 | 0 | | | | | | 3457 |
| Lewis Creek WD | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | 0 |
| Lindmore ID | 0 | 0 | 129 | 828 | 2989 | 7697 | 9762 | | | | | | 21405 |
| City of Lindsay | 0 | 45 | 168 | 162 | 257 | 214 | 266 | | | | | | 1112 |
| Lindsay-Strathmore ID | 5 | 117 | 0 | 0 | 0 | 2423 | 4368 | | | | | | 6913 |
| Wutchumna (Lindsey-Strathmore non-proje | 0 | 0 | 202 | 723 | 1944 | 1179 | 0 | | | | | | 4048 |
| Lower Tule River ID | 0 | 0 | 0 | 10194 | 35532 | 36555 | 31197 | | | | | | 113478 |
| North-Kern WSD | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | 0 |
| City of Orange Cove | 70 | 71 | 86 | 100 | 145 | 191 | 224 | | | | | | 887 |
| Orange Cove ID | 0 | 0 | 75 | 258 | 2910 | 5423 | 6290 | | | | | | 14956 |
| Pixley ID | 0 | 0 | 0 | 2342 | 9571 | 13482 | 11053 | | | | | | 36448 |
| Porterville ID | 0 | 0 | 0 | 1284 | 2518 | 3567 | 3807 | | | | | | 11176 |
| Rag Gulch WD | 0 | 320 | 684 | 989 | 2690 | 1850 | 2104 | | | | | | 8637 |
| Rosedale Rio Bravo WSD | 0 | 0 | 0 | 2582 | 21803 | 872 | 0 | | | | | | 25257 |
| Saucelito ID | 0 | 321 | 1840 | 2232 | 4822 | 6896 | 6558 | | | | | | 22669 |
| Semitropic WSD | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | 0 |
| Shafter Wasco ID | 541 | 5629 | 3670 | 3579 | 7988 | 11240 | 11475 | | | | | | 44122 |
| Southern San Joaquin MUD | 0 | 5260 | 5151 | 7096 | 13274 | 20789 | 22953 | | | | | | 74523 |
| Smallwood Vineyards | 0 | 0 | 33 | 62 | 72 | 113 | 114 | | | | | | 394 |
| Stone Corral ID | 0 | 0 | 9 | 232 | 780 | 1614 | 1822 | | | | | | 4457 |
| Strathmore PUD | 0 | 19 | 19 | 19 | 34 | 42 | 51 | | | | | | 184 |
| Styro Tek, Inc. | 0 | 0 | 1 | 0 | 1 | 0 | 1 | | | | | | 3 |
| Tea Pot Dome WD | 0 | 0 | 0 | 160 | 495 | 1039 | 1267 | | | | | | 2961 |
| Terra Bella ID | 0 | 0 | 125 | 449 | 1538 | 3178 | 4000 | | | | | | 9290 |
| Tri-Valley WD | 0 | 0 | 0 | 0 | 25 | 232 | 314 | | | | | | 571 |
| Tulare ID | 0 | 2692 | 0 | 11459 | 28428 | 31717 | 10055 | | | | | | 84351 |
| | 0 | 0 | 0 | 0 | 0 | 10270 | 0 | | | | | | 10270 |
| **Total** | **2352** | **20711** | **17859** | **75505** | **209653** | **216732** | **195926** | **0** | **0** | **0** | **0** | **0** | **738624** |

* Data supplied by Fresno Field Division, Contracts Administration Division

**Table 23**

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

## Madera Canal and Millerton Lake
**2003**

Monthly Deliveries in AF

| Water Users | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MADERA CANAL** | | | | | | | | | | | | | |
| Chowchilla WD | 0 | 0 | 0 | 4856 | 15650 | 20807 | 24536 | | | | | | 65849 |
| Madera ID | 0 | 0 | 0 | 4679 | 25629 | 33684 | 31464 | | | | | | 95456 |
| Soquel | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | 0 |
| **Total** | **0** | **0** | **0** | **9535** | **41279** | **54491** | **56000** | **0** | **0** | **0** | **0** | **0** | **161305** |
| **MILLERTON LAKE** | | | | | | | | | | | | | |
| County of Madera | 1 | 2 | 3 | 3 | 5 | 7 | 8 | | | | | | 29 |
| Fresno County # 18 | 5 | 5 | 7 | 8 | 14 | 20 | 24 | | | | | | 83 |
| Gravelly Ford WD | 0 | 2 | 345 | 1146 | 740 | 1288 | 1107 | | | | | | 4628 |
| **Total** | **6** | **9** | **355** | **1157** | **759** | **1315** | **1139** | **0** | **0** | **0** | **0** | **0** | **4740** |

* Data supplied by Fresno Field Division, Contracts Administration Division

**Table 24**

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

**San Joaquin and Mendota Pool**
**2003**

Monthly Deliveries in AF

| Water User | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fresno Slough WD | 0 | 714 | 184 | 149 | 354 | 760 | 998 | | | | | | 3159 |
| Hughes, Melvin | 0 | 21 | 0 | 0 | 0 | 19 | 30 | | | | | | 70 |
| James ID | 0 | 2341 | 546 | 1066 | 2420 | 9634 | 9517 | | | | | | 25524 |
| Laguna WD | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | 0 |
| Dudley & Indart | 0 | 910 | 301 | 124 | 490 | 813 | 727 | | | | | | 3365 |
| Mid-Valley WD (no contract) | 0 | 0 | 0 | 368 | 0 | 0 | 0 | | | | | | 368 |
| Reclamation 1606 | 0 | 0 | 0 | 41 | 41 | 55 | 67 | | | | | | 204 |
| Terra Linda (Goodman) | 0 | 798 | 624 | 779 | 816 | 1418 | 1819 | | | | | | 6254 |
| Tranquility ID | 65 | 5203 | 1071 | 475 | 2687 | 6364 | 6395 | | | | | | 22260 |
| Wilson, JW (no contract) | 0 | 169 | 18 | 0 | 0 | 165 | 200 | | | | | | 552 |
| **Total** | **65** | **10156** | **2744** | **3002** | **6808** | **19228** | **19753** | **0** | **0** | **0** | **0** | **0** | **61756** |
| **Exchange Contractors** | | | | | | | | | | | | | |
| Central California ID | 279 | 36522 | **31255** | 21112 | 36100 | 75416 | 88388 | | | | | | 289072 |
| Columbia Canal Co | 2 | 3648 | 5595 | 5451 | 5867 | 8815 | 10451 | | | | | | 39829 |
| Firebaugh Canal Co | 218 | 234 | 1258 | 2398 | 2523 | 3518 | 4025 | | | | | | 14174 |
| San Luis Canal Co | 0 | 4059 | 13742 | 8446 | 13050 | 27471 | 29032 | | | | | | 95800 |
| **Total** | **499** | **44463** | **51850** | **37407** | **57540** | **115220** | **131896** | **0** | **0** | **0** | **0** | **0** | **438875** |
| **Refuges** | | | | | | | | | | | | | |
| Grassland WD - 76.05L CCID #1-07-20-W1754 | 9348 | 12037 | 6037 | 5091 | 16878 | 6908 | 4223 | | | | | | 60522 |
| US F&WS - Kesterson #00-WC-20-1647 | 4679 | 1243 | 1241 | 2672 | 0 | 2248 | 5497 | | | | | | 17580 |
| State F&WS - DWR #00-WC-20-1647 Kern National Wildlife | 1136 | 2139 | 1291 | 220 | 236 | 145 | 0 | | | | | | 5167 |
| State F&G - Water Fowl Dist #1-07-20-W19756 | 4075 | 2454 | 1554 | 521 | 1527 | 2226 | 2733 | | | | | | 15090 |
| DFG Traction Ranch - Mendota Pool #14-06-200-7859Z | 497 | 427 | 315 | 307 | 546 | 1324 | 553 | | | | | | 3969 |
| **Total** | **19735** | **18300** | **10438** | **8811** | **19187** | **12851** | **13006** | **0** | **0** | **0** | **0** | **0** | **102328** |

**Table 25**

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

Monthly Deliveries in AF

## Delta-Mendota Canal
**2003**

| Water User | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Banta Carbona ID | 0 | 0 | 0 | 224 | 373 | 327 | 1128 | | | | | | 2052 |
| Broadview WD | 1013 | 1646 | 930 | 480 | 661 | 2868 | 3126 | | | | | | 10724 |
| CCID (Abv CK 13) | 240 | 139 | 1108 | 748 | 2222 | 2124 | 2426 | | | | | | 9007 |
| CCID (Blw CK 13) | 0 | 1347 | 4429 | 664 | 9983 | 13860 | 23806 | | | | | | 54089 |
| Centinella WD | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | 0 |
| China Island (76.05) | 0 | 1043 | 833 | 426 | 365 | 0 | 732 | | | | | | 3399 |
| Del Puerto WD | 151 | 1735 | 3527 | 7750 | 11081 | 15094 | 18647 | | | | | | 57985 |
| DWR Intertie @MP7.70-R | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | 0 |
| Eagle Field WD | 59 | 425 | 142 | 50 | 11 | 548 | 660 | | | | | | 1895 |
| Firebaugh Canal | 2202 | 5784 | 1170 | 454 | 924 | 6816 | 9547 | | | | | | 26897 |
| Frietas Unit (76.05L) | 0 | 1078 | 1258 | 835 | 795 | 0 | 904 | | | | | | 4870 |
| Mercy Springs WD | 0 | 156 | 57 | 249 | 136 | 309 | 362 | | | | | | 1269 |
| Oro Loma WD | 0 | 281 | 0 | 0 | 0 | 277 | 293 | | | | | | 851 |
| Panoche WD - Ag | 422 | 660 | 351 | 232 | 303 | 1156 | 1643 | | | | | | 4767 |
| Panoche WD - M&I | 2 | 3 | 2 | 3 | 2 | 3 | 2 | | | | | | 17 |
| Patterson WD | 0 | 209 | 354 | 336 | 866 | 1059 | 1592 | | | | | | 4416 |
| Plainview WD | 19 | 48 | 211 | 367 | 464 | 476 | 559 | | | | | | 2144 |
| Salt Slough Unit (76.05L) | 0 | 926 | 992 | 723 | 1021 | 0 | 1217 | | | | | | 4879 |
| San Luis WD - Ag | 38 | 1841 | 812 | 818 | 797 | 2128 | 2782 | | | | | | 9216 |
| San Luis WD - M&I | 1 | 1 | 3 | 3 | 12 | 35 | 31 | | | | | | 86 |
| Tracy, City of | 104 | 361 | 571 | 720 | 958 | 1187 | 1301 | | | | | | 5202 |
| West Side ID | 0 | 0 | 0 | 0 | 0 | 22 | 152 | | | | | | 174 |
| Widren | 0 | 54 | 0 | 0 | 0 | 16 | 25 | | | | | | 95 |
| W. Stanislaus ID | 0 | 556 | 1600 | 4081 | 4160 | 4951 | 8242 | | | | | | 23590 |
| F&G - Los Banos Ref. 76.05L | 0 | 1068 | 1168 | 538 | 1044 | 393 | 0 | | | | | | 4211 |
| Volta Wildlife Mgmt Area (F&G) | 109 | 17 | 127 | 195 | 330 | 158 | 147 | | | | | | 1083 |
| Grasslands WD -76.05L | 5851 | 3441 | 1085 | 725 | 7580 | 6214 | 2675 | | | | | | 27571 |
| Grasslands WD - Volta | 1286 | 1253 | 1139 | 0 | 1406 | 336 | 494 | | | | | | 5914 |
| F&S (Volta) Santa Fee Kest. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | 0 |
| F&S - Kesterson 76.05L | 0 | 665 | 819 | 512 | 778 | 0 | 0 | | | | | | 2774 |
| **Total DMC Deliveries** | **11497** | **24737** | **22688** | **21133** | **46272** | **60357** | **82493** | **0** | **0** | **0** | **0** | **0** | **269177** |
| Oneill Net Pumped | 222449 | 122252 | 167000 | 34494 | (53271) | (262129) | (7025) | | | | | | 223770 |
| DMC plus Oneill | 233946 | 146989 | 189688 | 55627 | (6999) | (201772) | 75468 | 0 | 0 | 0 | 0 | 0 | 492947 |

* Data supplied by San Luis Delta-Mendota Water Authority

**Table 26**

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

## San Luis and Cross Valley Canals
**2003**

Monthly Deliveries in AF

| Water User | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SAN LUIS CANAL** | | | | | | | | | | | | | |
| City of Avenal | 183 | 166 | 190 | 191 | 244 | 284 | 313 | | | | | | 1388 |
| Broadview WD | 4 | 1 | 0 | 2 | 1 | 4 | 3 | | | | | | 11 |
| City of Coalinga | 310 | 423 | 197 | 501 | 540 | 899 | 1026 | | | | | | 3586 |
| City of Dos Palos | 62 | 68 | 78 | 95 | 141 | 173 | 197 | | | | | | 752 |
| City of Huron | 43 | 50 | 64 | 90 | 83 | 104 | 123 | | | | | | 514 |
| Pacheco WD | 225 | 399 | 179 | 126 | 1 | 1271 | 2742 | | | | | | 4718 |
| Pacheco CCID Non-project (Hamburg) | 457 | 984 | 537 | 0 | 1174 | 1615 | 0 | | | | | | 4767 |
| Panoche WD | 3032 | 6457 | 3102 | 4068 | 4763 | 8981 | 12765 | | | | | | 43168 |
| San Luis WD | 1677 | 5012 | 4798 | 5688 | 6803 | 11505 | 14290 | | | | | | 49773 |
| Westlands WD (Federal) | 54952 | 72952 | 62666 | 74922 | 91722 | 171127 | 189035 | | | | | | 717376 |
| Phase I (Non-chargeable) | 1 | 5 | 0 | 0 | 0 | 3 | 0 | | | | | | 9 |
| Fish & Game (Lateral 4) | 1 | 0 | 1 | 1 | 2 | 2 | 2 | | | | | | 9 |
| Fish & Game (Lateral 6) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | 0 |
| **Total** | **60947** | **86517** | **71812** | **85684** | **105474** | **195968** | **220496** | **0** | **0** | **0** | **0** | **0** | **826898** |
| **O'NEILL FOREBAY DELIVERIES** | | | | | | | | | | | | | |
| Oneill Forebay Wildlife | 40 | 25 | 69 | 2 | 99 | 111 | 168 | | | | | | 514 |
| San Luis WD Ag | 32 | 690 | 582 | 975 | 1202 | 1852 | 2298 | | | | | | 7631 |
| San Luis M&I | 37 | 32 | 21 | 33 | 61 | 69 | 94 | | | | | | 347 |
| VA Cemetary | 1 | 4 | 3 | 4 | 7 | 9 | 14 | | | | | | 42 |
| **Total** | **110** | **751** | **675** | **1014** | **1369** | **2041** | **2574** | **0** | **0** | **0** | **0** | **0** | **8534** |
| **CROSS VALLEY CANAL** | | | | | | | | | | | | | |
| County of Fresno | 0 | 0 | 0 | 216 | 0 | 0 | 0 | | | | | | 216 |
| County of Tulare | 0 | 0 | 0 | 383 | 0 | 0 | 0 | | | | | | 383 |
| Lower Tule River ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | 0 |
| Pixley ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | |
| Kern-Tulare WD | 0 | 0 | 0 | 1075 | 0 | 0 | 0 | | | | | | |
| Rag Gulch WD | 0 | 0 | 0 | 358 | 0 | 0 | 0 | | | | | | |
| Hills-Valey ID | 0 | 0 | 0 | 242 | 0 | 0 | 0 | | | | | | |
| Tri-Valley ID | 0 | 0 | 0 | 82 | 0 | 0 | 0 | | | | | | 82 |
| **Total** | **0** | **0** | **0** | **2356** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **2356** |
| **SAN FELIPE DIVISION** | | | | | | | | | | | | | |
| Santa Clara | 3970 | 1985 | 6652 | 9606 | 9644 | 10827 | 15341 | | | | | | 58025 |
| San Benito | 254 | 1407 | 623 | 397 | 1139 | 3824 | 5164 | | | | | | 12808 |
| **Total** | **4224** | **3392** | **7275** | **10003** | **10783** | **14651** | **20505** | **0** | **0** | **0** | **0** | **0** | **70833** |

* Data supplied by Fresno Field Division, Contracts Administration Division for San Luis Canal and Cross Valley Canal.
Tracy Field Division, Water Division for O'Neill Forebay.

**Table 27**

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

## Tehama-Colusa Canal
**2003**

Monthly Deliveries in AF

| Water Users | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Colusa County WD | 73 | 120 | 1053 | 2479 | 5279 | 12355 | 13246 | | | | | | 34605 |
| Cortina WD | 0 | 0 | 0 | 37 | 100 | 272 | 278 | | | | | | 687 |
| Davis WD | 0 | 2 | 17 | 339 | 126 | 401 | 598 | | | | | | 1483 |
| Dunnigan WD | 8 | 22 | 133 | 455 | 1334 | 3237 | 3495 | | | | | | 8684 |
| 4-M Water District | 0 | 3 | 7 | 85 | 225 | 305 | 406 | | | | | | 1031 |
| GCID | 0 | 43 | 960 | 2135 | 3319 | 4905 | 4810 | | | | | | 16172 |
| Glenn Valley WD | 0 | 0 | 0 | 0 | 32 | 73 | 177 | | | | | | 282 |
| Glide WD | 0 | 8 | 9 | 269 | 2498 | 3177 | 4123 | | | | | | 10084 |
| Holthouse WD | 0 | 7 | 24 | 109 | 329 | 403 | 549 | | | | | | 1421 |
| Kanawha WD | 3 | 27 | 146 | 737 | 2470 | 7036 | 7815 | | | | | | 18234 |
| Kirkwood WD | 0 | 0 | 0 | 0 | 36 | 111 | 132 | | | | | | 279 |
| La Grande WD | 0 | 0 | 0 | 624 | 1247 | 1427 | 1291 | | | | | | 4589 |
| Myers-Marsh MWC | 0 | 0 | 25 | 47 | 149 | 261 | 154 | | | | | | 636 |
| Orland-Artois WD | 14 | 120 | 29 | 518 | 6581 | 13098 | 15059 | | | | | | 35419 |
| Westside WD | 0 | 40 | 453 | 2326 | 4180 | 9425 | 8327 | | | | | | 24751 |
| **Total** | **98** | **392** | **2856** | **10160** | **27905** | **56486** | **60460** | **0** | **0** | **0** | **0** | **0** | **158357** |

Data supplied by Willows Field Division, Water and Land Division

**Table 28**

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

Monthly Deliveries in AF

## Sacramento River
**2003**

| Water Users | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A&F Boeger Corp & Thunder Farms | 0 | 0 | 0 | 207 | 363 | 304 | 537 | | | | | | 1411 |
| Anderson Cottonwood ID | 0 | 0 | 0 | 6184 | 14829 | 19488 | 18866 | | | | | | 59367 |
| Andreotti, Arthur, et al | 0 | 0 | 0 | 0 | 400 | 707 | 724 | | | | | | 1831 |
| Baber, Jack, et | 0 | 0 | 0 | 0 | 228 | 680 | 718 | | | | | | 1626 |
| A&R Farms (Odyesseus) | 0 | 0 | 0 | 0 | 15 | 5 | 53 | | | | | | 73 |
| Cannel, Fred | 0 | 0 | 0 | 0 | 10 | 308 | 244 | | | | | | 562 |
| Carter, Jane | 0 | 0 | 0 | 0 | 142 | 554 | 303 | | | | | | 999 |
| Colusa Prop. Inc | 0 | 0 | 0 | 0 | 10 | 1 | 98 | | | | | | 109 |
| Conaway Conservancy Group | 0 | 0 | 0 | 0 | 3815 | 5535 | 6556 | | | | | | 15906 |
| Davis, Olive P, et al | 0 | 0 | 0 | 1312 | 5674 | 4869 | 5978 | | | | | | 17833 |
| Deseret Farms of Calif | 0 | 0 | 0 | 0 | 45 | 287 | 328 | | | | | | 660 |
| Dommer, Elizabeth | 0 | 0 | 0 | 0 | 0 | 2 | 3 | | | | | | 5 |
| Forry, David G, et al | 0 | 0 | 0 | 0 | 112 | 242 | 518 | | | | | | 872 |
| Forster, Rosemary | 0 | 0 | 0 | 0 | 474 | 330 | 384 | | | | | | 1188 |
| Furlan Joint Venture (Area #1) | 0 | 0 | 0 | 0 | 0 | 49 | 66 | | | | | | 115 |
| Furlan Joint Venture (Area #2) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | 0 |
| Glenn-Colusa ID | 0 | 0 | 0 | 44780 | 126973 | 137584 | 161359 | | | | | | 470696 |
| Griffin, J, et al | 0 | 0 | 0 | 0 | 429 | 550 | 121 | | | | | | 1100 |
| Henle Family Limited Partnership | 0 | 0 | 0 | 14 | 115 | 215 | 92 | | | | | | 436 |
| Hershey Land Co | 0 | 0 | 0 | 0 | 100 | 219 | 335 | | | | | | 654 |
| Hiatt, Glenn | 0 | 0 | 0 | 0 | 28 | 303 | 283 | | | | | | 614 |
| Hollins, Mariette B | 0 | 0 | 0 | 7 | 194 | 178 | 210 | | | | | | 589 |
| Howald Farms | 0 | 0 | 0 | 0 | 106 | 223 | 152 | | | | | | 481 |
| King, Barbara | 0 | 0 | 0 | 0 | 0 | 2 | 2 | | | | | | 4 |
| Knaggs Walnut Ranches Co, L.P. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | 0 |
| Lockett, William P. | 0 | 0 | 0 | 0 | 0 | 2 | 144 | | | | | | 146 |
| Loma Cold Storage/J Micheli | 0 | 0 | 0 | 18 | 1031 | 1556 | 686 | | | | | | 3291 |
| M&T Inc. | 0 | 0 | 0 | 0 | 862 | 1003 | 1810 | | | | | | 3675 |
| MCM Properties, Inc | 0 | 0 | 0 | 0 | 0 | 60 | 77 | | | | | | 137 |
| Maxwell ID | 0 | 0 | 0 | 239 | 399 | 110 | 0 | | | | | | 748 |
| Meridan Farms WC | 0 | 0 | 0 | 183 | 2959 | 2992 | 4937 | | | | | | 11071 |
| Natomas Central MWC | 0 | 0 | 0 | 1290 | 12566 | 16459 | 23861 | | | | | | 54176 |
| O'Brien, Janice | 0 | 0 | 0 | 0 | 87 | 277 | 233 | | | | | | 597 |
| Oji Bros. Farms Inc | 0 | 0 | 0 | 129 | 346 | 674 | 782 | | | | | | 1931 |
| Oji, Mitsue Family PTN | 0 | 0 | 0 | 0 | 278 | 1045 | 642 | | | | | | 1965 |
| Pelger Mutual WC | 0 | 0 | 0 | 98 | 1413 | 1330 | 620 | | | | | | 3461 |
| Pleasant Grove-Verona MWC | 0 | 0 | 0 | 0 | 1966 | 3217 | 4413 | | | | | | 9596 |
| Princeton,-Codora-Glenn ID | 0 | 0 | 0 | 2992 | 11804 | 11486 | 13726 | | | | | | 40008 |
| Provident Irrigation District | 0 | 0 | 0 | 3210 | 12461 | 11187 | 13824 | | | | | | 40682 |
| Reclamation Dist #108 | 0 | 0 | 0 | 2087 | 26250 | 31745 | 38176 | | | | | | 98258 |
| Reclamation Dist #1004 | 0 | 0 | 0 | 943 | 9726 | 10597 | 15947 | | | | | | 37213 |
| Reynen, John, et al | 0 | 0 | 0 | 0 | 807 | 976 | 1668 | | | | | | 3451 |
| River Garden Farms | 0 | 0 | 0 | 396 | 4160 | 4473 | 4350 | | | | | | 13379 |
| Roberts Ditch Irrigation Co | 0 | 0 | 0 | 0 | 368 | 765 | 1113 | | | | | | 2246 |
| Sartain Mutual WC | 0 | 0 | 0 | 0 | 276 | 462 | 508 | | | | | | 1246 |
| Siddiqui, J & A & Siddiqui Family Plan | 0 | 0 | 0 | 0 | 2 | 69 | 162 | | | | | | 233 |
| Spence, Ruth Ann | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | 0 |
| Sutter Mutual WC | 0 | 0 | 0 | 3787 | 28891 | 38509 | 46943 | | | | | | 118130 |
| Swinford Tract Irrigation Co | 0 | 0 | 0 | 0 | 0 | 0 | 27 | | | | | | 27 |
| Tarke, James, et al | 0 | 0 | 0 | 0 | 184 | 328 | 375 | | | | | | 887 |
| Tisdale Irrigation & Drain | 0 | 0 | 0 | 45 | 1096 | 1991 | 1988 | | | | | | 5120 |
| Wallace Construction, Inc. | 0 | 0 | 0 | 0 | 0 | 0 | 300 | | | | | | 300 |
| Wells, Joyce M | 0 | 0 | 0 | 8 | 210 | 237 | 279 | | | | | | 734 |
| Wilson Ranch Partnership | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | 0 |
| Windswept Land & Livestock Co. | 0 | 0 | 0 | 0 | 75 | 412 | 297 | | | | | | 784 |
| **Total** | 0 | 0 | 0 | 67929 | 272279 | 314597 | 375818 | | | | | | **1030623** |

* Data supplied by Willows Field Division, Water and Land Division (long-form contracts only)

**Table 29**

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

**Sacramento-San Joaquin Valley - Streamflow Data**
**2003**

Mean monthly flow in cfs

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sacramento River** | | | | | | | | | | | | |
| Shasta computed inflow | 17179 | 8836 | 11080 | 13642 | 13087 | 5613 | 4017 | | | | | |
| At Keswick | 13500 | 9498 | 4232 | 7639 | 16172 | 12924 | 13830 | | | | | |
| At Bend Bridge | 25382 | 13674 | 12271 | 12384 | 22852 | 14627 | 14595 | | | | | |
| At Vina Bridge | 38278 | 17020 | 11719 | 14887 | 26386 | 15700 | 14762 | | | | | |
| At Ord Ferry | 35335 | 15687 | 12185 | 14171 | 24485 | 12350 | 11271 | | | | | |
| At Colusa | 30523 | 17735 | 12519 | 13086 | 21861 | 11352 | 9701 | | | | | |
| Below Wilkins Slough | 24623 | 17618 | 12638 | 12632 | 18827 | 10231 | 8228 | | | | | |
| At Verona | 46013 | 29817 | 20277 | 19263 | 35128 | 18772 | 20194 | | | | | |
| Sacramento at "I" Street | 49929 | 33707 | 22335 | 20590 | 39805 | 22640 | 22828 | | | | | |
| **Miscellaneous Stations** | | | | | | | | | | | | |
| Folsom computed inflow | 3942 | 3227 | 3683 | 5851 | 8030 | 4130 | 1938 | | | | | |
| American R at Nimbus Dam | 2626 | 4300 | 2019 | 2043 | 5621 | 4216 | 3322 | | | | | |
| Kings River at Pine Flat | 111 | 94 | 401 | 706 | 2069 | 6585 | 6506 | | | | | |
| **San Joaquin River** | | | | | | | | | | | | |
| At Friant Dam | 104 | 103 | 114 | 146 | 162 | 386 | 250 | | | | | |
| Near Vernalis | 2211 | 2198 | 2191 | 2573 | 2569 | 2109 | 1397 | | | | | |
| **Putah Creek** | | | | | | | | | | | | |
| Berryessa computed inflow | 1328 | 564 | 736 | 750 | 473 | 28 | 1 | | | | | |
| Putah Creek - Lake Solano | 26 | 195 | 337 | 281 | 481 | 43 | 43 | | | | | |
| **Stanislaus River** | | | | | | | | | | | | |
| New Melones computed inflow | 1068 | 962 | 1143 | 1710 | 2529 | 2459 | 961 | | | | | |
| At Tulloch Dam | 305 | 533 | 1123 | 1697 | 1941 | 2625 | 2149 | | | | | |
| At Orange Blossom | 212 | 539 | 454 | 726 | 695 | 1046 | 426 | | | | | |

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