

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

FEBRUARY 2004

SHASTA LAKE FLOOD CONTROL REQUIREMENTS

RUN DATE: March 29, 2004

| DAY | SHASTA INFLOW C. F. S. | PREV DAY F. C. PAR (COL 3) X .95 | F. C. PARAM (COLS. 1 + 2) | .0356* X DAYS 12/23 THRU 3/20 | 530,000 MINUS F. C. PARAM (COL 3) | COLS 4 X 5 | F. C. RESERV (1,300,000 - COL 6) | MINUS 14,943 PER DAY AFTER 3/20 | ADJUSTED F. C. RESERV (7-8) | PERM STORAGE |
|-----|------------------------------|---|-------------------------------------|--|---|---------------|--|---|--------------------------------------|-----------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | |
| | | | 189,924 | | | | | | | |
| 1 | 6,295 | 180,427 | 186,722 | 1.4080 | 343,278 | 483,335 | 816,665 | | | 3,735,000 |
| 2 | 10,944 | 177,386 | 188,330 | 1.4432 | 341,670 | 493,098 | 806,902 | | | 3,745,000 |
| 3 | 10,681 | 178,914 | 189,595 | 1.4784 | 340,405 | 503,255 | 796,745 | | | 3,755,000 |
| 4 | 9,415 | 180,115 | 189,530 | 1.5136 | 340,470 | 515,335 | 784,665 | | | 3,767,000 |
| 5 | 8,642 | 180,054 | 188,696 | 1.5488 | 341,304 | 528,612 | 771,388 | | | 3,781,000 |
| 6 | 8,068 | 179,261 | 187,329 | 1.5840 | 342,671 | 542,791 | 757,209 | | | 3,795,000 |
| 7 | 8,515 | 177,962 | 186,477 | 1.6192 | 343,523 | 556,232 | 743,768 | | | 3,808,000 |
| 8 | 7,868 | 177,153 | 185,021 | 1.6544 | 344,979 | 570,733 | 729,267 | | | 3,823,000 |
| 9 | 7,491 | 175,770 | 183,261 | 1.6896 | 346,739 | 585,850 | 714,150 | | | 3,838,000 |
| 10 | 7,072 | 174,098 | 181,170 | 1.7248 | 348,830 | 601,661 | 698,339 | | | 3,854,000 |
| 11 | 7,161 | 172,112 | 179,273 | 1.7600 | 350,727 | 617,280 | 682,720 | | | 3,869,000 |
| 12 | 7,336 | 170,309 | 177,645 | 1.7952 | 352,355 | 632,547 | 667,453 | | | 3,885,000 |
| 13 | 7,309 | 168,763 | 176,072 | 1.8304 | 353,928 | 647,830 | 652,170 | | | 3,900,000 |
| 14 | 8,108 | 167,268 | 175,376 | 1.8656 | 354,624 | 661,586 | 638,414 | | | 3,914,000 |
| 15 | 9,055 | 166,607 | 175,662 | 1.9008 | 354,338 | 673,525 | 626,475 | | | 3,926,000 |
| 16 | 35,422 | 166,879 | 202,301 | 1.9360 | 327,699 | 634,425 | 665,575 | | | 3,886,000 |
| 17 | 110,890 | 192,186 | 303,076 | 1.9712 | 226,924 | 447,312 | 852,688 | | | 3,699,000 |
| 18 | 79,979 | 287,922 | 367,901 | 2.0064 | 162,099 | 325,234 | 974,766 | | | 3,577,000 |
| 19 | 44,067 | 349,506 | 393,573 | 2.0416 | 136,427 | 278,529 | 1,021,471 | | | 3,531,000 |
| 20 | 33,086 | 373,895 | 406,981 | 2.0768 | 123,019 | 255,486 | 1,044,514 | | | 3,507,000 |
| 21 | 26,777 | 386,632 | 413,409 | 2.1120 | 116,591 | 246,241 | 1,053,759 | | | 3,498,000 |
| 22 | 23,015 | 392,738 | 415,753 | 2.1472 | 114,247 | 245,311 | 1,054,689 | | | 3,497,000 |
| 23 | 18,717 | 394,966 | 413,683 | 2.1824 | 116,317 | 253,851 | 1,046,149 | | | 3,506,000 |
| 24 | 18,336 | 392,998 | 411,334 | 2.2176 | 118,666 | 263,153 | 1,036,847 | | | 3,515,000 |
| 25 | 34,135 | 390,768 | 424,903 | 2.2528 | 105,097 | 236,763 | 1,063,237 | | | 3,489,000 |
| 26 | 50,522 | 403,658 | 454,180 | 2.2880 | 75,820 | 173,477 | 1,126,523 | | | 3,425,000 |
| 27 | 35,672 | 431,471 | 467,143 | 2.3232 | 62,857 | 146,030 | 1,153,970 | | | 3,398,000 |
| 28 | 25,565 | 443,785 | 469,350 | 2.3584 | 60,650 | 143,036 | 1,156,964 | | | 3,395,000 |
| 29 | 21,870 | 445,883 | 467,753 | 2.3936 | 62,247 | 148,994 | 1,151,006 | | | 3,401,000 |

COMMENTS:

* LEAP YEAR CONSTANT = .0352

CONSTANT .0356 = 1,300,000 / (TOTAL DAYS X (530,000 - 110,000))

IF COL 3 IS GREATER THAN 530,000 OR LESS THAN 110,000 USE THOSE VALUES FOR COL 3 INSTEAD OF THE COMPUTED VALUE.