

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

MARCH 2004

SHASTA LAKE FLOOD CONTROL REQUIREMENTS

RUN DATE: April 1, 2004

| DAY | SHASTA<br>INFLOW<br>C. F. S. | PREV DAY<br>F. C. PAR<br>(COL 3)<br>X .95 | F. C.<br>PARAM<br>(COLS.<br>1 + 2 ) | .0356*<br>X DAYS<br>12/23 THRU<br>3/20 | 530,000<br>MINUS<br>F. C.<br>PARAM<br>(COL 3) | COLS<br>4 X 5 | F. C.<br>RESERV<br>(1,300,000<br>- COL 6 ) | MINUS<br>14,943<br>PER DAY<br>AFTER<br>3/20 | ADJUSTED<br>F. C.<br>RESERV<br>(7-8) | PERM<br>STORAGE |
|-----|------------------------------|---|-------------------------------------|--|---|---------------|--|---|--------------------------------------|-----------------|
|     | 1                            | 2   | 3                                   | 4                                      | 5   | 6             | 7  | 8   |                                      |                 |
|     |                              |   | 467,753                             |  |   |               |  |   |                                      |                 |
| 1   | 23,241                       | 444,365                                   | 467,606                             | 2.4288                                 | 62,394  | 151,542       | 1,148,458                                  |   |                                      | 3,404,000       |
| 2   | 20,082                       | 444,226                                   | 464,308                             | 2.4640                                 | 65,692  | 161,865       | 1,138,135                                  |   |                                      | 3,414,000       |
| 3   | 18,229                       | 441,093                                   | 459,322                             | 2.4992                                 | 70,678  | 176,639       | 1,123,361                                  |   |                                      | 3,429,000       |
| 4   | 16,581                       | 436,356                                   | 452,937                             | 2.5344                                 | 77,063  | 195,310       | 1,104,690                                  |   |                                      | 3,447,000       |
| 5   | 15,629                       | 430,290                                   | 445,919                             | 2.5696                                 | 84,081  | 216,055       | 1,083,945                                  |   |                                      | 3,468,000       |
| 6   | 13,546                       | 423,623                                   | 437,169                             | 2.6048                                 | 92,831  | 241,807       | 1,058,193                                  |   |                                      | 3,494,000       |
| 7   | 12,768                       | 415,310                                   | 428,078                             | 2.6400                                 | 101,922                                       | 269,073       | 1,030,927                                  |   |                                      | 3,521,000       |
| 8   | 13,318                       | 406,674                                   | 419,992                             | 2.6752                                 | 110,008                                       | 294,292       | 1,005,708                                  |   |                                      | 3,546,000       |
| 9   | 13,437                       | 398,993                                   | 412,430                             | 2.7104                                 | 117,570                                       | 318,662       | 981,338                                    |   |                                      | 3,571,000       |
| 10  | 12,890                       | 391,808                                   | 404,698                             | 2.7456                                 | 125,302                                       | 344,028       | 955,972                                    |   |                                      | 3,596,000       |
| 11  | 13,075                       | 384,463                                   | 397,538                             | 2.7808                                 | 132,462                                       | 368,349       | 931,651                                    |   |                                      | 3,620,000       |
| 12  | 13,036                       | 377,661                                   | 390,697                             | 2.8160                                 | 139,303                                       | 392,276       | 907,724                                    |   |                                      | 3,644,000       |
| 13  | 12,236                       | 371,163                                   | 383,399                             | 2.8512                                 | 146,601                                       | 417,990       | 882,010                                    |   |                                      | 3,670,000       |
| 14  | 12,533                       | 364,229                                   | 376,762                             | 2.8864                                 | 153,238                                       | 442,307       | 857,693                                    |   |                                      | 3,694,000       |
| 15  | 12,960                       | 357,924                                   | 370,884                             | 2.9216                                 | 159,116                                       | 464,875       | 835,125                                    |   |                                      | 3,717,000       |
| 16  | 11,956                       | 352,339                                   | 364,295                             | 2.9568                                 | 165,705                                       | 489,955       | 810,045                                    |   |                                      | 3,742,000       |
| 17  | 11,831                       | 346,081                                   | 357,912                             | 2.9920                                 | 172,088                                       | 514,888       | 785,112                                    |   |                                      | 3,767,000       |
| 18  | 11,203                       | 340,016                                   | 351,219                             | 3.0272                                 | 178,781                                       | 541,206       | 758,794                                    |   |                                      | 3,793,000       |
| 19  | 11,493                       | 333,658                                   | 345,151                             | 3.0624                                 | 184,849                                       | 566,081       | 733,919                                    |   |                                      | 3,818,000       |
| 20  | 10,368                       | 327,894                                   | 338,262                             | 3.0976                                 | 191,738                                       | 593,929       | 706,071                                    |   |                                      | 3,846,000       |
| 21  | 10,989                       | 321,348                                   | 332,337                             | 3.0976                                 | 197,663                                       | 612,279       | 687,721                                    | 14,943                                      | 672,778                              | 3,879,000       |
| 22  | 9,953                        | 315,721                                   | 325,674                             | 3.0976                                 | 204,326                                       | 632,921       | 667,079                                    | 29,886                                      | 637,193                              | 3,915,000       |
| 23  | 9,768                        | 309,390                                   | 319,158                             | 3.0976                                 | 210,842                                       | 653,104       | 646,896                                    | 44,829                                      | 602,067                              | 3,950,000       |
| 24  | 10,788                       | 303,200                                   | 313,988                             | 3.0976                                 | 216,012                                       | 669,119       | 630,881                                    | 59,772                                      | 571,109                              | 3,981,000       |
| 25  | 12,218                       | 298,289                                   | 310,507                             | 3.0976                                 | 219,493                                       | 679,903       | 620,097                                    | 74,715                                      | 545,382                              | 4,007,000       |
| 26  | 10,364                       | 294,981                                   | 305,345                             | 3.0976                                 | 224,655                                       | 695,890       | 604,110                                    | 89,658                                      | 514,452                              | 4,038,000       |
| 27  | 10,769                       | 290,078                                   | 300,847                             | 3.0976                                 | 229,153                                       | 709,824       | 590,176                                    | 104,601                                     | 485,575                              | 4,067,000       |
| 28  | 9,913                        | 285,805                                   | 295,718                             | 3.0976                                 | 234,282                                       | 725,713       | 574,287                                    | 119,544                                     | 454,743                              | 4,098,000       |
| 29  | 10,313                       | 280,932                                   | 291,245                             | 3.0976                                 | 238,755                                       | 739,568       | 560,432                                    | 134,487                                     | 425,945                              | 4,126,000       |
| 30  | 9,962                        | 276,683                                   | 286,645                             | 3.0976                                 | 243,355                                       | 753,818       | 546,182                                    | 149,430                                     | 396,752                              | 4,155,000       |
| 31  | 10,552                       | 272,312                                   | 282,864                             | 3.0976                                 | 247,136                                       | 765,527       | 534,473                                    | 164,373                                     | 370,100                              | 4,182,000       |

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.