

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

MAY 2011

SHASTA LAKE FLOOD CONTROL REQUIREMENTS

RUN DATE: June 1, 2011

| 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                                          |                                             |                                      |                 |
|     |                              |                                           | 346,281                             |                                        |                                               |               |                                            |                                             |                                      |                 |
| 1   | 13,919                       | 328,967                                   | 342,886                             | 3.0972                                 | 187,114                                       | 579,530       | 720,470                                    | 627,606                                     | 92,864                               | 4,460,000       |
| 2   | 14,134                       | 325,742                                   | 339,876                             | 3.0972                                 | 190,124                                       | 588,854       | 711,146                                    | 642,549                                     | 68,597                               | 4,484,000       |
| 3   | 13,344                       | 322,882                                   | 336,226                             | 3.0972                                 | 193,774                                       | 600,158       | 699,842                                    | 657,492                                     | 42,350                               | 4,509,000       |
| 4   | 13,083                       | 319,414                                   | 332,497                             | 3.0972                                 | 197,503                                       | 611,705       | 688,295                                    | 672,435                                     | 15,860                               | 4,536,000       |
| 5   | 12,800                       | 315,873                                   | 328,673                             | 3.0972                                 | 201,327                                       | 623,551       | 676,449                                    | 687,378                                     |                                      | 4,552,000       |
| 6   | 13,489                       | 312,239                                   | 325,728                             | 3.0972                                 | 204,272                                       | 632,671       | 667,329                                    | 702,321                                     |                                      | 4,552,000       |
| 7   | 12,508                       | 309,442                                   | 321,950                             | 3.0972                                 | 208,050                                       | 644,374       | 655,626                                    | 717,264                                     |                                      | 4,552,000       |
| 8   | 10,889                       | 305,852                                   | 316,741                             | 3.0972                                 | 213,259                                       | 660,506       | 639,494                                    | 732,207                                     |                                      | 4,552,000       |
| 9   | 12,479                       | 300,904                                   | 313,383                             | 3.0972                                 | 216,617                                       | 670,906       | 629,094                                    | 747,150                                     |                                      | 4,552,000       |
| 10  | 10,807                       | 297,714                                   | 308,521                             | 3.0972                                 | 221,479                                       | 685,965       | 614,035                                    | 762,093                                     |                                      | 4,552,000       |
| 11  | 11,856                       | 293,095                                   | 304,951                             | 3.0972                                 | 225,049                                       | 697,022       | 602,978                                    | 777,036                                     |                                      | 4,552,000       |
| 12  | 11,651                       | 289,703                                   | 301,354                             | 3.0972                                 | 228,646                                       | 708,162       | 591,838                                    | 791,979                                     |                                      | 4,552,000       |
| 13  | 11,328                       | 286,287                                   | 297,615                             | 3.0972                                 | 232,385                                       | 719,744       | 580,256                                    | 806,922                                     |                                      | 4,552,000       |
| 14  | 12,629                       | 282,734                                   | 295,363                             | 3.0972                                 | 234,637                                       | 726,718       | 573,282                                    | 821,865                                     |                                      | 4,552,000       |
| 15  | 13,083                       | 280,595                                   | 293,678                             | 3.0972                                 | 236,322                                       | 731,937       | 568,063                                    | 836,808                                     |                                      | 4,552,000       |
| 16  | 11,079                       | 278,994                                   | 290,073                             | 3.0972                                 | 239,927                                       | 743,102       | 556,898                                    | 851,751                                     |                                      | 4,552,000       |
| 17  | 14,015                       | 275,569                                   | 289,584                             | 3.0972                                 | 240,416                                       | 744,616       | 555,384                                    | 866,694                                     |                                      | 4,552,000       |
| 18  | 9,836                        | 275,105                                   | 284,941                             | 3.0972                                 | 245,059                                       | 758,997       | 541,003                                    | 881,637                                     |                                      | 4,552,000       |
| 19  | 12,006                       | 270,694                                   | 282,700                             | 3.0972                                 | 247,300                                       | 765,938       | 534,062                                    | 896,580                                     |                                      | 4,552,000       |
| 20  | 10,603                       | 268,565                                   | 279,168                             | 3.0972                                 | 250,832                                       | 776,877       | 523,123                                    | 911,523                                     |                                      | 4,552,000       |
| 21  | 10,705                       | 265,210                                   | 275,915                             | 3.0972                                 | 254,085                                       | 786,954       | 513,046                                    | 926,466                                     |                                      | 4,552,000       |
| 22  | 10,758                       | 262,119                                   | 272,877                             | 3.0972                                 | 257,123                                       | 796,362       | 503,638                                    | 941,409                                     |                                      | 4,552,000       |
| 23  | 12,499                       | 259,233                                   | 271,732                             | 3.0972                                 | 258,268                                       | 799,908       | 500,092                                    | 956,352                                     |                                      | 4,552,000       |
| 24  | 9,422                        | 258,145                                   | 267,567                             | 3.0972                                 | 262,433                                       | 812,806       | 487,194                                    | 971,295                                     |                                      | 4,552,000       |
| 25  | 11,674                       | 254,189                                   | 265,863                             | 3.0972                                 | 264,137                                       | 818,085       | 481,915                                    | 986,238                                     |                                      | 4,552,000       |
| 26  | 11,014                       | 252,570                                   | 263,584                             | 3.0972                                 | 266,416                                       | 825,144       | 474,856                                    | 1,001,181                                   |                                      | 4,552,000       |
| 27  | 9,966                        | 250,405                                   | 260,371                             | 3.0972                                 | 269,629                                       | 835,096       | 464,904                                    | 1,016,124                                   |                                      | 4,552,000       |
| 28  | 11,007                       | 247,352                                   | 258,359                             | 3.0972                                 | 271,641                                       | 841,326       | 458,674                                    | 1,031,067                                   |                                      | 4,552,000       |
| 29  | 9,005                        | 245,441                                   | 254,446                             | 3.0972                                 | 275,554                                       | 853,445       | 446,555                                    | 1,046,010                                   |                                      | 4,552,000       |
| 30  | 11,966                       | 241,724                                   | 253,690                             | 3.0972                                 | 276,310                                       | 855,788       | 444,212                                    | 1,060,953                                   |                                      | 4,552,000       |
| 31  | 13,055                       | 241,005                                   | 254,060                             | 3.0972                                 | 275,940                                       | 854,640       | 445,360                                    | 1,075,896                                   |                                      | 4,552,000       |

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.