

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

APRIL 2013

SHASTA LAKE FLOOD CONTROL REQUIREMENTS

RUN DATE: May 30, 2013

| 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                                          |                                             |                                      |                 |
|     |                              |                                           | 135,272                             |                                        |                                               |               |                                            |                                             |                                      |                 |
| 1   | 7,877                        | 128,508                                   | 136,385                             | 3.0972                                 | 393,615                                       | 1,219,105     | 80,895                                     | 179,316                                     |                                      | 4,552,000       |
| 2   | 7,974                        | 129,566                                   | 137,540                             | 3.0972                                 | 392,460                                       | 1,215,528     | 84,472                                     | 194,259                                     |                                      | 4,552,000       |
| 3   | 7,663                        | 130,663                                   | 138,326                             | 3.0972                                 | 391,674                                       | 1,213,094     | 86,906                                     | 209,202                                     |                                      | 4,552,000       |
| 4   | 9,694                        | 131,409                                   | 141,103                             | 3.0972                                 | 388,897                                       | 1,204,491     | 95,509                                     | 224,145                                     |                                      | 4,552,000       |
| 5   | 10,042                       | 134,048                                   | 144,090                             | 3.0972                                 | 385,910                                       | 1,195,240     | 104,760                                    | 239,088                                     |                                      | 4,552,000       |
| 6   | 11,200                       | 136,886                                   | 148,086                             | 3.0972                                 | 381,914                                       | 1,182,865     | 117,135                                    | 254,031                                     |                                      | 4,552,000       |
| 7   | 10,747                       | 140,681                                   | 151,428                             | 3.0972                                 | 378,572                                       | 1,172,512     | 127,488                                    | 268,974                                     |                                      | 4,552,000       |
| 8   | 9,593                        | 143,857                                   | 153,450                             | 3.0972                                 | 376,550                                       | 1,166,251     | 133,749                                    | 283,917                                     |                                      | 4,552,000       |
| 9   | 9,444                        | 145,778                                   | 155,222                             | 3.0972                                 | 374,778                                       | 1,160,764     | 139,236                                    | 298,860                                     |                                      | 4,552,000       |
| 10  | 8,458                        | 147,460                                   | 155,918                             | 3.0972                                 | 374,082                                       | 1,158,605     | 141,395                                    | 313,803                                     |                                      | 4,552,000       |
| 11  | 8,136                        | 148,123                                   | 156,259                             | 3.0972                                 | 373,741                                       | 1,157,552     | 142,448                                    | 328,746                                     |                                      | 4,552,000       |
| 12  | 7,995                        | 148,446                                   | 156,441                             | 3.0972                                 | 373,559                                       | 1,156,988     | 143,012                                    | 343,689                                     |                                      | 4,552,000       |
| 13  | 7,329                        | 148,619                                   | 155,948                             | 3.0972                                 | 374,052                                       | 1,158,515     | 141,485                                    | 358,632                                     |                                      | 4,552,000       |
| 14  | 6,535                        | 148,150                                   | 154,685                             | 3.0972                                 | 375,315                                       | 1,162,425     | 137,575                                    | 373,575                                     |                                      | 4,552,000       |
| 15  | 6,726                        | 146,951                                   | 153,677                             | 3.0972                                 | 376,323                                       | 1,165,548     | 134,452                                    | 388,518                                     |                                      | 4,552,000       |
| 16  | 5,808                        | 145,993                                   | 151,801                             | 3.0972                                 | 378,199                                       | 1,171,358     | 128,642                                    | 403,461                                     |                                      | 4,552,000       |
| 17  | 6,412                        | 144,211                                   | 150,623                             | 3.0972                                 | 379,377                                       | 1,175,006     | 124,994                                    | 418,404                                     |                                      | 4,552,000       |
| 18  | 6,953                        | 143,092                                   | 150,045                             | 3.0972                                 | 379,955                                       | 1,176,797     | 123,203                                    | 433,347                                     |                                      | 4,552,000       |
| 19  | 5,041                        | 142,543                                   | 147,584                             | 3.0972                                 | 382,416                                       | 1,184,420     | 115,580                                    | 448,290                                     |                                      | 4,552,000       |
| 20  | 5,079                        | 140,204                                   | 145,283                             | 3.0972                                 | 384,717                                       | 1,191,544     | 108,456                                    | 463,233                                     |                                      | 4,552,000       |
| 21  | 4,854                        | 138,019                                   | 142,873                             | 3.0972                                 | 387,127                                       | 1,199,009     | 100,991                                    | 478,176                                     |                                      | 4,552,000       |
| 22  | 6,311                        | 135,730                                   | 142,041                             | 3.0972                                 | 387,959                                       | 1,201,588     | 98,412                                     | 493,119                                     |                                      | 4,552,000       |
| 23  | 4,676                        | 134,939                                   | 139,615                             | 3.0972                                 | 390,385                                       | 1,209,102     | 90,898                                     | 508,062                                     |                                      | 4,552,000       |
| 24  | 4,734                        | 132,634                                   | 137,368                             | 3.0972                                 | 392,632                                       | 1,216,060     | 83,940                                     | 523,005                                     |                                      | 4,552,000       |
| 25  | 4,603                        | 130,499                                   | 135,102                             | 3.0972                                 | 394,898                                       | 1,223,077     | 76,923                                     | 537,948                                     |                                      | 4,552,000       |
| 26  | 4,162                        | 128,347                                   | 132,509                             | 3.0972                                 | 397,491                                       | 1,231,108     | 68,892                                     | 552,891                                     |                                      | 4,552,000       |
| 27  | 4,024                        | 125,884                                   | 129,908                             | 3.0972                                 | 400,092                                       | 1,239,165     | 60,835                                     | 567,834                                     |                                      | 4,552,000       |
| 28  | 4,858                        | 123,412                                   | 128,270                             | 3.0972                                 | 401,730                                       | 1,244,237     | 55,763                                     | 582,777                                     |                                      | 4,552,000       |
| 29  | 4,304                        | 121,857                                   | 126,161                             | 3.0972                                 | 403,839                                       | 1,250,770     | 49,230                                     | 597,720                                     |                                      | 4,552,000       |
| 30  | 3,651                        | 119,853                                   | 123,504                             | 3.0972                                 | 406,496                                       | 1,259,000     | 41,000                                     | 612,663                                     |                                      | 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.