

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

APRIL 2022

SHASTA LAKE FLOOD CONTROL REQUIREMENTS

RUN DATE: May 3, 2022

| DAY | SHASTA<br>INFLOW<br>C. F. S.<br>1 | PREV DAY<br>F. C. PAR<br>(COL 3)<br>X .95<br>2 | F. C.<br>PARAM<br>(COLS.<br>1 + 2 )<br>3 | .0356*<br>X DAYS<br>12/23 THRU<br>3/20<br>4 | 530,000<br>MINUS<br>F. C.<br>PARAM<br>(COL 3)<br>5 | COLS<br>4 X 5<br>6 | F. C.<br>RESERV<br>(1,300,000<br>- COL 6 )<br>7 | MINUS<br>14,943<br>PER DAY<br>AFTER<br>3/20<br>8 | ADJUSTED<br>F. C.<br>RESERV<br>(7-8) | PERM<br>STORAGE |
|-----|-----------------------------------|------------------------------------------------|------------------------------------------|---------------------------------------------|----------------------------------------------------|--------------------|-------------------------------------------------|--------------------------------------------------|--------------------------------------|-----------------|
|     |                                   |                                                | 79,655                                   |                                             |                                                    |                    |                                                 |                                                  |                                      |                 |
| 1   | 3,823                             | 75,672                                         | 79,495                                   | 3.0972                                      | 420,000                                            | 1,300,000          | 0                                               | 179,316                                          |                                      | 4,552,000       |
| 2   | 3,578                             | 75,520                                         | 79,098                                   | 3.0972                                      | 420,000                                            | 1,300,000          | 0                                               | 194,259                                          |                                      | 4,552,000       |
| 3   | 3,267                             | 75,143                                         | 78,410                                   | 3.0972                                      | 420,000                                            | 1,300,000          | 0                                               | 209,202                                          |                                      | 4,552,000       |
| 4   | 3,570                             | 74,490                                         | 78,060                                   | 3.0972                                      | 420,000                                            | 1,300,000          | 0                                               | 224,145                                          |                                      | 4,552,000       |
| 5   | 2,626                             | 74,157                                         | 76,783                                   | 3.0972                                      | 420,000                                            | 1,300,000          | 0                                               | 239,088                                          |                                      | 4,552,000       |
| 6   | 2,763                             | 72,944                                         | 75,707                                   | 3.0972                                      | 420,000                                            | 1,300,000          | 0                                               | 254,031                                          |                                      | 4,552,000       |
| 7   | 3,652                             | 71,921                                         | 75,573                                   | 3.0972                                      | 420,000                                            | 1,300,000          | 0                                               | 268,974                                          |                                      | 4,552,000       |
| 8   | 4,147                             | 71,795                                         | 75,942                                   | 3.0972                                      | 420,000                                            | 1,300,000          | 0                                               | 283,917                                          |                                      | 4,552,000       |
| 9   | 2,706                             | 72,145                                         | 74,851                                   | 3.0972                                      | 420,000                                            | 1,300,000          | 0                                               | 298,860                                          |                                      | 4,552,000       |
| 10  | 2,537                             | 71,108                                         | 73,645                                   | 3.0972                                      | 420,000                                            | 1,300,000          | 0                                               | 313,803                                          |                                      | 4,552,000       |
| 11  | 2,538                             | 69,963                                         | 72,501                                   | 3.0972                                      | 420,000                                            | 1,300,000          | 0                                               | 328,746                                          |                                      | 4,552,000       |
| 12  | 3,315                             | 68,876                                         | 72,191                                   | 3.0972                                      | 420,000                                            | 1,300,000          | 0                                               | 343,689                                          |                                      | 4,552,000       |
| 13  | 4,068                             | 68,581                                         | 72,649                                   | 3.0972                                      | 420,000                                            | 1,300,000          | 0                                               | 358,632                                          |                                      | 4,552,000       |
| 14  | 5,032                             | 69,017                                         | 74,049                                   | 3.0972                                      | 420,000                                            | 1,300,000          | 0                                               | 373,575                                          |                                      | 4,552,000       |
| 15  | 2,661                             | 70,346                                         | 73,007                                   | 3.0972                                      | 420,000                                            | 1,300,000          | 0                                               | 388,518                                          |                                      | 4,552,000       |
| 16  | 4,935                             | 69,357                                         | 74,292                                   | 3.0972                                      | 420,000                                            | 1,300,000          | 0                                               | 403,461                                          |                                      | 4,552,000       |
| 17  | 4,179                             | 70,577                                         | 74,756                                   | 3.0972                                      | 420,000                                            | 1,300,000          | 0                                               | 418,404                                          |                                      | 4,552,000       |
| 18  | 5,596                             | 71,019                                         | 76,615                                   | 3.0972                                      | 420,000                                            | 1,300,000          | 0                                               | 433,347                                          |                                      | 4,552,000       |
| 19  | 5,555                             | 72,784                                         | 78,339                                   | 3.0972                                      | 420,000                                            | 1,300,000          | 0                                               | 448,290                                          |                                      | 4,552,000       |
| 20  | 6,271                             | 74,422                                         | 80,693                                   | 3.0972                                      | 420,000                                            | 1,300,000          | 0                                               | 463,233                                          |                                      | 4,552,000       |
| 21  | 5,652                             | 76,658                                         | 82,310                                   | 3.0972                                      | 420,000                                            | 1,300,000          | 0                                               | 478,176                                          |                                      | 4,552,000       |
| 22  | 6,956                             | 78,195                                         | 85,151                                   | 3.0972                                      | 420,000                                            | 1,300,000          | 0                                               | 493,119                                          |                                      | 4,552,000       |
| 23  | 4,401                             | 80,893                                         | 85,294                                   | 3.0972                                      | 420,000                                            | 1,300,000          | 0                                               | 508,062                                          |                                      | 4,552,000       |
| 24  | 5,096                             | 81,029                                         | 86,125                                   | 3.0972                                      | 420,000                                            | 1,300,000          | 0                                               | 523,005                                          |                                      | 4,552,000       |
| 25  | 4,289                             | 81,819                                         | 86,108                                   | 3.0972                                      | 420,000                                            | 1,300,000          | 0                                               | 537,948                                          |                                      | 4,552,000       |
| 26  | 4,588                             | 81,803                                         | 86,391                                   | 3.0972                                      | 420,000                                            | 1,300,000          | 0                                               | 552,891                                          |                                      | 4,552,000       |
| 27  | 5,127                             | 82,071                                         | 87,198                                   | 3.0972                                      | 420,000                                            | 1,300,000          | 0                                               | 567,834                                          |                                      | 4,552,000       |
| 28  | 4,988                             | 82,838                                         | 87,826                                   | 3.0972                                      | 420,000                                            | 1,300,000          | 0                                               | 582,777                                          |                                      | 4,552,000       |
| 29  | 4,872                             | 83,435                                         | 88,307                                   | 3.0972                                      | 420,000                                            | 1,300,000          | 0                                               | 597,720                                          |                                      | 4,552,000       |
| 30  | 4,391                             | 83,892                                         | 88,283                                   | 3.0972                                      | 420,000                                            | 1,300,000          | 0                                               | 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