

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

**FEBRUARY 2011**

**SHASTA LAKE FLOOD CONTROL REQUIREMENTS**

RUN DATE: March 2, 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                                          |                                             |                                      |                 |
|     |                              |                                           | 169,930                             |                                        |                                               |               |                                            |                                             |                                      |                 |
| 1   | 6,101                        | 161,433                                   | 167,534                             | 1.4240                                 | 362,466                                       | 516,151       | 783,849                                    |                                             |                                      | 3,768,000       |
| 2   | 5,963                        | 159,158                                   | 165,121                             | 1.4596                                 | 364,879                                       | 532,578       | 767,422                                    |                                             |                                      | 3,785,000       |
| 3   | 6,127                        | 156,865                                   | 162,992                             | 1.4952                                 | 367,008                                       | 548,751       | 751,249                                    |                                             |                                      | 3,801,000       |
| 4   | 5,133                        | 154,842                                   | 159,975                             | 1.5308                                 | 370,025                                       | 566,434       | 733,566                                    |                                             |                                      | 3,818,000       |
| 5   | 4,295                        | 151,976                                   | 156,271                             | 1.5664                                 | 373,729                                       | 585,409       | 714,591                                    |                                             |                                      | 3,837,000       |
| 6   | 5,261                        | 148,458                                   | 153,719                             | 1.6020                                 | 376,281                                       | 602,803       | 697,197                                    |                                             |                                      | 3,855,000       |
| 7   | 5,308                        | 146,033                                   | 151,341                             | 1.6376                                 | 378,659                                       | 620,092       | 679,908                                    |                                             |                                      | 3,872,000       |
| 8   | 5,044                        | 143,774                                   | 148,818                             | 1.6732                                 | 381,182                                       | 637,794       | 662,206                                    |                                             |                                      | 3,890,000       |
| 9   | 5,329                        | 141,377                                   | 146,706                             | 1.7088                                 | 383,294                                       | 654,973       | 645,027                                    |                                             |                                      | 3,907,000       |
| 10  | 5,462                        | 139,371                                   | 144,833                             | 1.7444                                 | 385,167                                       | 671,886       | 628,114                                    |                                             |                                      | 3,924,000       |
| 11  | 5,297                        | 137,591                                   | 142,888                             | 1.7800                                 | 387,112                                       | 689,059       | 610,941                                    |                                             |                                      | 3,941,000       |
| 12  | 5,824                        | 135,744                                   | 141,568                             | 1.8156                                 | 388,432                                       | 705,238       | 594,762                                    |                                             |                                      | 3,957,000       |
| 13  | 5,797                        | 134,489                                   | 140,286                             | 1.8512                                 | 389,714                                       | 721,438       | 578,562                                    |                                             |                                      | 3,973,000       |
| 14  | 8,484                        | 133,272                                   | 141,756                             | 1.8868                                 | 388,244                                       | 732,539       | 567,461                                    |                                             |                                      | 3,985,000       |
| 15  | 17,870                       | 134,668                                   | 152,538                             | 1.9224                                 | 377,462                                       | 725,633       | 574,367                                    |                                             |                                      | 3,978,000       |
| 16  | 22,263                       | 144,911                                   | 167,174                             | 1.9580                                 | 362,826                                       | 710,413       | 589,587                                    |                                             |                                      | 3,962,000       |
| 17  | 16,906                       | 158,815                                   | 175,721                             | 1.9936                                 | 354,279                                       | 706,290       | 593,710                                    |                                             |                                      | 3,958,000       |
| 18  | 14,285                       | 166,935                                   | 181,220                             | 2.0292                                 | 348,780                                       | 707,744       | 592,256                                    |                                             |                                      | 3,960,000       |
| 19  | 14,147                       | 172,159                                   | 186,306                             | 2.0648                                 | 343,694                                       | 709,659       | 590,341                                    |                                             |                                      | 3,962,000       |
| 20  | 10,778                       | 176,991                                   | 187,769                             | 2.1004                                 | 342,231                                       | 718,822       | 581,178                                    |                                             |                                      | 3,971,000       |
| 21  | 10,821                       | 178,381                                   | 189,202                             | 2.1360                                 | 340,798                                       | 727,945       | 572,055                                    |                                             |                                      | 3,980,000       |
| 22  | 9,668                        | 179,742                                   | 189,410                             | 2.1716                                 | 340,590                                       | 739,626       | 560,374                                    |                                             |                                      | 3,992,000       |
| 23  | 8,457                        | 179,939                                   | 188,396                             | 2.2072                                 | 341,604                                       | 753,988       | 546,012                                    |                                             |                                      | 4,006,000       |
| 24  | 9,832                        | 178,976                                   | 188,808                             | 2.2428                                 | 341,192                                       | 765,225       | 534,775                                    |                                             |                                      | 4,017,000       |
| 25  | 9,938                        | 179,368                                   | 189,306                             | 2.2784                                 | 340,694                                       | 776,238       | 523,762                                    |                                             |                                      | 4,028,000       |
| 26  | 8,451                        | 179,841                                   | 188,292                             | 2.3140                                 | 341,708                                       | 790,713       | 509,287                                    |                                             |                                      | 4,043,000       |
| 27  | 7,246                        | 178,877                                   | 186,123                             | 2.3496                                 | 343,877                                       | 807,973       | 492,027                                    |                                             |                                      | 4,060,000       |
| 28  | 7,564                        | 176,817                                   | 184,381                             | 2.3852                                 | 345,619                                       | 824,371       | 475,629                                    |                                             |                                      | 4,076,000       |

**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.