

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

MAY 2009

SHASTA LAKE FLOOD CONTROL REQUIREMENTS

RUN DATE: June 1, 2009

| 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                                          |                                             |                                      |                 |
|     |                              |                                           | 174,984                             |                                        |                                               |               |                                            |                                             |                                      |                 |
| 1   | 7,862                        | 166,235                                   | 174,097                             | 3.0972                                 | 355,903                                       | 1,102,304     | 197,696                                    | 627,606                                     |                                      | 4,552,000       |
| 2   | 11,946                       | 165,392                                   | 177,338                             | 3.0972                                 | 352,662                                       | 1,092,265     | 207,735                                    | 642,549                                     |                                      | 4,552,000       |
| 3   | 21,278                       | 168,471                                   | 189,749                             | 3.0972                                 | 340,251                                       | 1,053,825     | 246,175                                    | 657,492                                     |                                      | 4,552,000       |
| 4   | 18,637                       | 180,262                                   | 198,899                             | 3.0972                                 | 331,101                                       | 1,025,487     | 274,513                                    | 672,435                                     |                                      | 4,552,000       |
| 5   | 27,552                       | 188,954                                   | 216,506                             | 3.0972                                 | 313,494                                       | 970,955       | 329,045                                    | 687,378                                     |                                      | 4,552,000       |
| 6   | 21,067                       | 205,680                                   | 226,747                             | 3.0972                                 | 303,253                                       | 939,234       | 360,766                                    | 702,321                                     |                                      | 4,552,000       |
| 7   | 16,669                       | 215,410                                   | 232,079                             | 3.0972                                 | 297,921                                       | 922,721       | 377,279                                    | 717,264                                     |                                      | 4,552,000       |
| 8   | 12,751                       | 220,475                                   | 233,226                             | 3.0972                                 | 296,774                                       | 919,168       | 380,832                                    | 732,207                                     |                                      | 4,552,000       |
| 9   | 12,132                       | 221,565                                   | 233,697                             | 3.0972                                 | 296,303                                       | 917,711       | 382,289                                    | 747,150                                     |                                      | 4,552,000       |
| 10  | 10,994                       | 222,012                                   | 233,006                             | 3.0972                                 | 296,994                                       | 919,850       | 380,150                                    | 762,093                                     |                                      | 4,552,000       |
| 11  | 10,904                       | 221,356                                   | 232,260                             | 3.0972                                 | 297,740                                       | 922,162       | 377,838                                    | 777,036                                     |                                      | 4,552,000       |
| 12  | 9,424                        | 220,647                                   | 230,071                             | 3.0972                                 | 299,929                                       | 928,941       | 371,059                                    | 791,979                                     |                                      | 4,552,000       |
| 13  | 8,932                        | 218,567                                   | 227,499                             | 3.0972                                 | 302,501                                       | 936,906       | 363,094                                    | 806,922                                     |                                      | 4,552,000       |
| 14  | 8,462                        | 216,124                                   | 224,586                             | 3.0972                                 | 305,414                                       | 945,928       | 354,072                                    | 821,865                                     |                                      | 4,552,000       |
| 15  | 8,207                        | 213,357                                   | 221,564                             | 3.0972                                 | 308,436                                       | 955,289       | 344,711                                    | 836,808                                     |                                      | 4,552,000       |
| 16  | 8,596                        | 210,486                                   | 219,082                             | 3.0972                                 | 310,918                                       | 962,976       | 337,024                                    | 851,751                                     |                                      | 4,552,000       |
| 17  | 7,916                        | 208,128                                   | 216,044                             | 3.0972                                 | 313,956                                       | 972,386       | 327,614                                    | 866,694                                     |                                      | 4,552,000       |
| 18  | 7,779                        | 205,241                                   | 213,020                             | 3.0972                                 | 316,980                                       | 981,749       | 318,251                                    | 881,637                                     |                                      | 4,552,000       |
| 19  | 7,689                        | 202,369                                   | 210,058                             | 3.0972                                 | 319,942                                       | 990,923       | 309,077                                    | 896,580                                     |                                      | 4,552,000       |
| 20  | 6,515                        | 199,555                                   | 206,070                             | 3.0972                                 | 323,930                                       | 1,003,275     | 296,725                                    | 911,523                                     |                                      | 4,552,000       |
| 21  | 6,502                        | 195,767                                   | 202,269                             | 3.0972                                 | 327,731                                       | 1,015,049     | 284,951                                    | 926,466                                     |                                      | 4,552,000       |
| 22  | 6,379                        | 192,155                                   | 198,534                             | 3.0972                                 | 331,466                                       | 1,026,615     | 273,385                                    | 941,409                                     |                                      | 4,552,000       |
| 23  | 4,597                        | 188,608                                   | 193,205                             | 3.0972                                 | 336,795                                       | 1,043,122     | 256,878                                    | 956,352                                     |                                      | 4,552,000       |
| 24  | 4,390                        | 183,545                                   | 187,935                             | 3.0972                                 | 342,065                                       | 1,059,445     | 240,555                                    | 971,295                                     |                                      | 4,552,000       |
| 25  | 4,806                        | 178,538                                   | 183,344                             | 3.0972                                 | 346,656                                       | 1,073,664     | 226,336                                    | 986,238                                     |                                      | 4,552,000       |
| 26  | 4,997                        | 174,177                                   | 179,174                             | 3.0972                                 | 350,826                                       | 1,086,580     | 213,420                                    | 1,001,181                                   |                                      | 4,552,000       |
| 27  | 5,526                        | 170,215                                   | 175,741                             | 3.0972                                 | 354,259                                       | 1,097,211     | 202,789                                    | 1,016,124                                   |                                      | 4,552,000       |
| 28  | 4,711                        | 166,954                                   | 171,665                             | 3.0972                                 | 358,335                                       | 1,109,836     | 190,164                                    | 1,031,067                                   |                                      | 4,552,000       |
| 29  | 5,259                        | 163,082                                   | 168,341                             | 3.0972                                 | 361,659                                       | 1,120,131     | 179,869                                    | 1,046,010                                   |                                      | 4,552,000       |
| 30  | 4,808                        | 159,924                                   | 164,732                             | 3.0972                                 | 365,268                                       | 1,131,309     | 168,691                                    | 1,060,953                                   |                                      | 4,552,000       |
| 31  | 4,843                        | 156,495                                   | 161,338                             | 3.0972                                 | 368,662                                       | 1,141,820     | 158,180                                    | 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.