

September 12, 2012

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2800 Cottage Way, W-2605  
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Maria Rea  
National Marine Fisheries Service  
650 Capitol Mall, Suite 8-300  
Sacramento, CA 95814-4708

RE: Project 2299 – Update of Water Year Classification Index and Flow Schedule

Dear Fishery Agency representatives:

A letter, dated May 17, 2012, attached for your reference, contained a revised flow schedule for the current Fish Flow Year based on the May 15, 2012, Department of Water Resources (DWR) forecast update for the San Joaquin Basin 60-20-20 Index. That interim schedule used 125,152 acre-feet of annual volume (an 'INTERMEDIATE C-D WATER YEAR' year type).

As you know, the final 60-20-20 San Joaquin Basin Index is not available until August of each year. Therefore, all flows prior to August are based upon index estimates when the 60-20-20 San Joaquin Basin Index is below average using both the dry and average conditions. TID notified the California Department of Fish and Game (CDFG), the U.S. Fish and Wildlife Service (FWS), and the National Marine Fisheries Service (NMFS) of the dry conditions and that the estimated final 60-20-20 San Joaquin Basin Index would be less than the amount forecasted in the early spring (see **Table 1** on the DWR forecasts).

Based on the final index, a revised flow schedule using the 127,346 AF is shown in **Table 2**. Note that under the final index and calculations, there is an additional 2,194 A.F. of water to be allocated. The 2,194 A.F. is added to the 1,034 A.F. fall pulse flow forecasted in the May letter for a total of 3,228 A.F. Based on previous conversations with the fishery agencies, the additional water has been placed into a 4-day pulse flow in mid October.

With concurrence of all parties, the interpolation water can be allocated differently during the remainder of the 2012-2013 fish year. Please contact Wes Monier at (209)-883-8321 if you wish to discuss such a possibility or have any other questions.

Sincerely,

A handwritten signature in black ink, appearing to read "St Boyd", with a stylized, flowing script.

Steven E. Boyd  
Director of Water Resources

C: Casey Hasimoto – TID  
Robert M. Nees-TID  
Allen Short – MID  
Michael Carline - CCSF  
FERC Secretary



May 17, 2012

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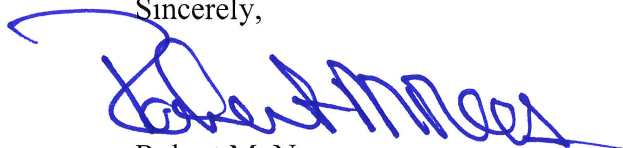
RE: Project 2299 – Tuolumne River 2012 Flow Schedule

Dear Fishery Agency Representatives:

We have reached the point in the year where the California Department of Water Resources forecast for the 10%, 50% and 90% exceedances should be converging to a single sum. Presently, there is still some separation in the exceedance values, however with no precipitation in the National Weather Service long range forecast; it appears that the 90% exceedance projection is optimistic. The revised DWR forecast of May 15, 2012, shows an additional 6,915 acre feet now available.

At the suggestion of the California Department of Fish and Game, the additional water under the 90% exceedance forecast has been added to the flow schedule to boost flows during the last week of May. Please see the accompanying revised schedule. If you should have questions, please contact Wes Monier at (209) 883-8321.

Sincerely,



Robert M. Nees  
Assistant General Manager,  
Water Resources

C: Casey Hashimoto - TID  
Allen Short – MID  
Michael Carlin – CCSF  
FERC Secretary

**Tuolumne River Flow Schedule**  
**Dry Conditions Based on DWR May 15, 2012 Forecast Update**  
**SCHEDULE FOR 2012 - 2013 Fish Flow Year**

| DATE        |             | Number of<br>DAYS | BASE FLOW |       |                | PULSE FLOW |       |                | INTERPOLATION FLOW |       |                | TOTAL FERC FLOW |                |
|-------------|-------------|-------------------|-----------|-------|----------------|------------|-------|----------------|--------------------|-------|----------------|-----------------|----------------|
| From:       | To:         |                   | CFS       | AF    | ACCUM.<br>A.F. | CFS        | AF    | ACCUM.<br>A.F. | CFS                | AF    | ACCUM.<br>A.F. | CFS             | ACCUM.<br>A.F. |
| 15-Apr-2012 | 15-Apr-2012 | 1                 | 150       | 298   | 298            | 0          | 0     | 0              | 0                  | 0     | 0              | 150             | 298            |
| 16-Apr-2012 | 16-Apr-2012 | 1                 | 150       | 298   | 595            | 0          | 0     | 0              | 0                  | 0     | 0              | 150             | 595            |
| 17-Apr-2012 | 17-Apr-2012 | 1                 | 150       | 298   | 893            | 0          | 0     | 0              | 0                  | 0     | 0              | 150             | 893            |
| 18-Apr-2012 | 18-Apr-2012 | 1                 | 150       | 298   | 1,190          | 0          | 0     | 0              | 0                  | 0     | 0              | 150             | 1,190          |
| 19-Apr-2012 | 19-Apr-2012 | 1                 | 150       | 298   | 1,488          | 0          | 0     | 0              | 0                  | 0     | 0              | 150             | 1,488          |
| 20-Apr-2012 | 20-Apr-2012 | 1                 | 150       | 298   | 1,785          | 0          | 0     | 0              | 0                  | 0     | 0              | 150             | 1,785          |
| 21-Apr-2012 | 21-Apr-2012 | 1                 | 150       | 298   | 2,083          | 0          | 0     | 0              | 0                  | 0     | 0              | 150             | 2,083          |
| 22-Apr-2012 | 22-Apr-2012 | 1                 | 150       | 298   | 2,380          | 0          | 0     | 0              | 0                  | 0     | 0              | 150             | 2,380          |
| 23-Apr-2012 | 23-Apr-2012 | 1                 | 150       | 298   | 2,678          | 0          | 0     | 0              | 0                  | 0     | 0              | 150             | 2,678          |
| 24-Apr-2012 | 24-Apr-2012 | 1                 | 150       | 298   | 2,975          | 0          | 0     | 0              | 0                  | 0     | 0              | 150             | 2,975          |
| 25-Apr-2012 | 25-Apr-2012 | 1                 | 150       | 298   | 3,273          | 45         | 90    | 90             | 0                  | 0     | 0              | 195             | 3,363          |
| 26-Apr-2012 | 26-Apr-2012 | 1                 | 150       | 298   | 3,570          | 50         | 99    | 189            | 0                  | 0     | 0              | 200             | 3,759          |
| 27-Apr-2012 | 27-Apr-2012 | 1                 | 150       | 298   | 3,868          | 150        | 298   | 487            | 0                  | 0     | 0              | 300             | 4,355          |
| 28-Apr-2012 | 28-Apr-2012 | 1                 | 150       | 298   | 4,165          | 200        | 397   | 883            | 0                  | 0     | 0              | 350             | 5,049          |
| 29-Apr-2012 | 29-Apr-2012 | 1                 | 150       | 298   | 4,463          | 200        | 397   | 1,280          | 0                  | 0     | 0              | 350             | 5,743          |
| 30-Apr-2012 | 30-Apr-2012 | 1                 | 150       | 298   | 4,760          | 200        | 397   | 1,677          | 0                  | 0     | 0              | 350             | 6,437          |
| 01-May-2012 | 01-May-2012 | 1                 | 150       | 298   | 5,058          | 500        | 992   | 2,669          | 0                  | 0     | 0              | 650             | 7,726          |
| 02-May-2012 | 02-May-2012 | 1                 | 150       | 298   | 5,355          | 500        | 992   | 3,660          | 0                  | 0     | 0              | 650             | 9,016          |
| 03-May-2012 | 03-May-2012 | 1                 | 150       | 298   | 5,653          | 500        | 992   | 4,652          | 0                  | 0     | 0              | 650             | 10,305         |
| 04-May-2012 | 04-May-2012 | 1                 | 150       | 298   | 5,950          | 500        | 992   | 5,644          | 0                  | 0     | 0              | 650             | 11,594         |
| 05-May-2012 | 05-May-2012 | 1                 | 150       | 298   | 6,248          | 500        | 992   | 6,636          | 0                  | 0     | 0              | 650             | 12,883         |
| 06-May-2012 | 06-May-2012 | 1                 | 150       | 298   | 6,545          | 500        | 992   | 7,627          | 0                  | 0     | 0              | 650             | 14,173         |
| 07-May-2012 | 07-May-2012 | 1                 | 150       | 298   | 6,843          | 500        | 992   | 8,619          | 0                  | 0     | 0              | 650             | 15,462         |
| 08-May-2012 | 08-May-2012 | 1                 | 150       | 298   | 7,140          | 500        | 992   | 9,611          | 0                  | 0     | 0              | 650             | 16,751         |
| 09-May-2012 | 09-May-2012 | 1                 | 150       | 298   | 7,438          | 1,900      | 3,769 | 13,379         | 0                  | 0     | 0              | 2,050           | 20,817         |
| 10-May-2012 | 10-May-2012 | 1                 | 150       | 298   | 7,736          | 1,900      | 3,769 | 17,148         | 0                  | 0     | 0              | 2,050           | 24,883         |
| 11-May-2012 | 11-May-2012 | 1                 | 150       | 298   | 8,033          | 1,900      | 3,769 | 20,917         | 0                  | 0     | 0              | 2,050           | 28,950         |
| 12-May-2012 | 12-May-2012 | 1                 | 150       | 298   | 8,331          | 1,900      | 3,769 | 24,685         | 0                  | 0     | 0              | 2,050           | 33,016         |
| 13-May-2012 | 13-May-2012 | 1                 | 150       | 298   | 8,628          | 1,150      | 2,281 | 26,966         | 0                  | 0     | 0              | 1,300           | 35,594         |
| 14-May-2012 | 14-May-2012 | 1                 | 150       | 298   | 8,926          | 850        | 1,686 | 28,652         | 0                  | 0     | 0              | 1,000           | 37,578         |
| 15-May-2012 | 15-May-2012 | 1                 | 150       | 298   | 9,223          | 600        | 1,190 | 29,842         | 0                  | 0     | 0              | 750             | 39,065         |
| 16-May-2012 | 16-May-2012 | 1                 | 150       | 298   | 9,521          | 100        | 198   | 30,040         | 0                  | 0     | 0              | 250             | 39,561         |
| 17-May-2012 | 17-May-2012 | 1                 | 150       | 298   | 9,818          | 100        | 198   | 30,239         | 0                  | 0     | 0              | 250             | 40,057         |
| 18-May-2012 | 18-May-2012 | 1                 | 150       | 298   | 10,116         | 100        | 198   | 30,437         | 0                  | 0     | 0              | 250             | 40,553         |
| 19-May-2012 | 19-May-2012 | 1                 | 150       | 298   | 10,413         | 100        | 198   | 30,636         | 0                  | 0     | 0              | 250             | 41,049         |
| 20-May-2012 | 20-May-2012 | 1                 | 150       | 298   | 10,711         | 250        | 496   | 31,131         | 0                  | 0     | 0              | 400             | 41,842         |
| 21-May-2012 | 21-May-2012 | 1                 | 150       | 298   | 11,008         | 250        | 496   | 31,627         | 0                  | 0     | 0              | 400             | 42,636         |
| 22-May-2012 | 22-May-2012 | 1                 | 150       | 298   | 11,306         | 250        | 496   | 32,123         | 0                  | 0     | 0              | 400             | 43,429         |
| 23-May-2012 | 23-May-2012 | 1                 | 150       | 298   | 11,603         | 250        | 496   | 32,619         | 0                  | 0     | 0              | 400             | 44,222         |
| 24-May-2012 | 24-May-2012 | 1                 | 150       | 298   | 11,901         | 0          | 0     | 32,619         | 611                | 1,212 | 1212           | 761             | 45,732         |
| 25-May-2012 | 25-May-2012 | 1                 | 150       | 298   | 12,198         | 0          | 0     | 32,619         | 611                | 1,212 | 2425           | 761             | 47,242         |
| 26-May-2012 | 26-May-2012 | 1                 | 150       | 298   | 12,496         | 0          | 0     | 32,619         | 611                | 1,212 | 3637           | 761             | 48,752         |
| 27-May-2012 | 27-May-2012 | 1                 | 150       | 298   | 12,793         | 0          | 0     | 32,619         | 611                | 1,212 | 4849           | 761             | 50,261         |
| 28-May-2012 | 28-May-2012 | 1                 | 150       | 298   | 13,091         | 0          | 0     | 32,619         | 611                | 1,212 | 6061           | 761             | 51,771         |
| 29-May-2012 | 29-May-2012 | 1                 | 150       | 298   | 13,388         | 0          | 0     | 32,619         | 200                | 397   | 6458           | 350             | 52,465         |
| 30-May-2012 | 30-May-2012 | 1                 | 150       | 298   | 13,686         | 0          | 0     | 32,619         | 50                 | 99    | 6557           | 200             | 52,862         |
| 31-May-2012 | 31-May-2012 | 1                 | 150       | 298   | 13,983         | 0          | 0     | 32,619         | 25                 | 50    | 6607           | 175             | 53,209         |
| 01-Jun-2012 | 01-Jun-2012 | 1                 | 50        | 99    | 14,083         | 0          | 0     | 32,619         | 100                | 198   | 6805           | 150             | 53,507         |
| 02-Jun-2012 | 02-Jun-2012 | 1                 | 50        | 99    | 14,182         | 0          | 0     | 32,619         | 75                 | 149   | 6954           | 125             | 53,755         |
| 03-Jun-2012 | 03-Jun-2012 | 1                 | 50        | 99    | 14,281         | 0          | 0     | 32,619         | 50                 | 99    | 7053           | 100             | 53,953         |
| 04-Jun-2012 | 04-Jun-2012 | 1                 | 50        | 99    | 14,380         | 0          | 0     | 32,619         | 25                 | 50    | 7103           | 75              | 54,102         |
| 05-Jun-2012 | 05-Jun-2012 | 1                 | 50        | 99    | 14,479         | 0          | 0     | 32,619         | 0                  | 0     | 7103           | 50              | 54,201         |
| 06-Jun-2012 | 06-Jun-2012 | 1                 | 50        | 99    | 14,579         | 0          | 0     | 32,619         | 0                  | 0     | 7103           | 50              | 54,300         |
| 07-Jun-2012 | 30-Jun-2012 | 24                | 50        | 2,380 | 16,959         | 0          | 0     | 32,619         | 0                  | 0     | 7103           | 50              | 56,680         |
| 01-Jul-2012 | 31-Jul-2012 | 31                | 50        | 3,074 | 20,033         | 0          | 0     | 32,619         | 0                  | 0     | 7103           | 50              | 59,755         |
| 01-Aug-2012 | 31-Aug-2012 | 31                | 50        | 3,074 | 23,107         | 0          | 0     | 32,619         | 0                  | 0     | 7103           | 50              | 62,829         |
| 01-Sep-2012 | 30-Sep-2012 | 30                | 50        | 2,975 | 26,083         | 0          | 0     | 32,619         | 0                  | 0     | 7103           | 50              | 65,804         |
| 01-Oct-2012 | 01-Oct-2012 | 1                 | 150       | 298   | 26,380         | 0          | 0     | 32,619         | 0                  | 0     | 7103           | 150             | 66,102         |
| 02-Oct-2012 | 07-Oct-2012 | 6                 | 150       | 1,785 | 28,165         | 0          | 0     | 32,619         | 0                  | 0     | 7103           | 150             | 67,887         |
| 08-Oct-2012 | 10-Oct-2012 | 3                 | 150       | 893   | 29,058         | 0          | 0     | 32,619         | 0                  | 0     | 7103           | 150             | 68,779         |
| 11-Oct-2012 | 12-Oct-2012 | 2                 | 150       | 595   | 29,653         | 0          | 0     | 32,619         | 0                  | 0     | 7103           | 150             | 69,375         |
| 13-Oct-2012 | 14-Oct-2012 | 2                 | 150       | 595   | 30,248         | 0          | 0     | 32,619         | 261                | 1,034 | 8137           | 411             | 71,004         |
| 15-Oct-2012 | 31-Oct-2012 | 17                | 150       | 5,058 | 35,306         | 0          | 0     | 32,619         | 0                  | 0     | 8,137          | 150             | 76,061         |
| 01-Nov-2012 | 30-Nov-2012 | 30                | 150       | 8,926 | 44,231         | 0          | 0     | 32,619         | 0                  | 0     | 8,137          | 150             | 84,987         |
| 01-Dec-2012 | 31-Dec-2012 | 31                | 150       | 9,223 | 53,455         | 0          | 0     | 32,619         | 0                  | 0     | 8,137          | 150             | 94,210         |
| 01-Jan-2013 | 31-Jan-2013 | 31                | 150       | 9,223 | 62,678         | 0          | 0     | 32,619         | 0                  | 0     | 8,137          | 150             | 103,433        |
| 01-Feb-2013 | 28-Feb-2013 | 28                | 150       | 8,331 | 71,008         | 0          | 0     | 32,619         | 0                  | 0     | 8,137          | 150             | 111,764        |
| 01-Mar-2013 | 31-Mar-2013 | 31                | 150       | 9,223 | 80,231         | 0          | 0     | 32,619         | 0                  | 0     | 8,137          | 150             | 120,987        |
| 01-Apr-2013 | 14-Apr-2013 | 14                | 150       | 4,165 | 84,397         | 0          | 0     | 32,619         | 0                  | 0     | 8,137          | 150             | 125,152        |

No. of days 365 (April 15 through April 14)

1 cfs day = 1.983471 acre-feet (af)

Table 1

SAN JOAQUIN VALLEY WATER YEAR HYDROLOGIC CLASSIFICATION  
602020 INDEX

| YEAR           | APRIL-JULY RUNOFF (AF) |           |           |           | OCTOBER-MARCH RUNOFF (AF) |           |         |         | TOTAL     | 602020 INDEX | TUOLUMNE RIVER           |     | San Joaquin Index<br>(not the FERC Index) |
|----------------|------------------------|-----------|-----------|-----------|---------------------------|-----------|---------|---------|-----------|--------------|--------------------------|-----|-------------------------------------------|
|                | STANISLAUS             | TUOLUMNE  | MERCED    | FRIANT    | STANISLAUS                | TUOLUMNE  | MERCED  | FRIANT  |           |              | MINIMUM FLOW REQUIREMENT |     |                                           |
| 11             | 1,350,414              | 2,172,501 | 1,133,496 | 2,243,065 | 819,843                   | 1,248,753 | 727,148 | 881,767 | 3,677,511 | 5,584,773    | 300,923                  | Wet |                                           |
| 12             | 394,507                | 609,424   | 300,876   | 558,917   | 215,106                   | 254,324   | 114,994 | 244,726 | 829,150   | 2,184,064    | 127,346                  | Dry |                                           |
| Feb 1 Forecast |                        |           |           |           |                           |           |         |         |           |              |                          |     |                                           |
| Dry            | 170,000                | 380,000   | 180,000   | 390,000   |                           |           |         |         |           |              |                          |     |                                           |
| Average        | 350,000                | 700,000   | 340,000   | 750,000   |                           |           |         |         |           |              |                          |     | 108,455 Critical                          |
| Wet            | 780,000                | 1,420,000 | 810,000   | 1,490,000 |                           |           |         |         |           |              |                          |     | 139,086 Dry                               |
| Feb 14 Update  |                        |           |           |           |                           |           |         |         |           |              |                          |     |                                           |
| Dry            | 140,000                | 340,000   | 140,000   | 310,000   | 155,000                   | 210,000   | 97,000  | 205,000 | 667,000   | 1,705,400    |                          |     | 108,455 Critical                          |
| Average        | 290,000                | 600,000   | 280,000   | 630,000   | 235,000                   | 320,000   | 150,000 | 295,000 | 1,000,000 | 2,384,000    |                          |     | 139,086 Dry                               |
| Wet            | 690,000                | 1,240,000 | 680,000   | 1,270,000 | 415,000                   | 550,000   | 297,000 | 485,000 | 1,747,000 | 3,949,400    |                          |     | 300,923 Wet                               |
| Feb 21 Update  |                        |           |           |           |                           |           |         |         |           |              |                          |     |                                           |
| Dry            | 120,000                | 310,000   | 130,000   | 280,000   | 155,000                   | 210,000   | 97,000  | 205,000 | 667,000   | 1,537,400    |                          |     | 105,196 Critical                          |
| Average        | 260,000                | 540,000   | 260,000   | 570,000   | 235,000                   | 320,000   | 150,000 | 295,000 | 1,000,000 | 2,180,000    |                          |     | 127,112 Dry                               |
| Wet            | 640,000                | 1,140,000 | 620,000   | 1,150,000 | 415,000                   | 550,000   | 297,000 | 485,000 | 1,747,000 | 3,577,400    |                          |     | 300,923 Above Normal                      |
| Mar 1 Forecast |                        |           |           |           |                           |           |         |         |           |              |                          |     |                                           |
| Dry            | 120,000                | 280,000   | 100,000   | 240,000   |                           |           |         |         |           |              |                          |     |                                           |
| Average        | 240,000                | 470,000   | 220,000   | 510,000   |                           |           |         |         |           |              |                          |     |                                           |
| Wet            | 600,000                | 1,020,000 | 530,000   | 1,020,000 |                           |           |         |         |           |              |                          |     |                                           |
| Mar 13 Update  |                        |           |           |           |                           |           |         |         |           |              |                          |     |                                           |
| Dry            | 120,000                | 290,000   | 110,000   | 240,000   | 160,000                   | 205,000   | 90,000  | 200,000 | 655,000   | 1,475,000    |                          |     | 94,000 Critical                           |
| Average        | 220,000                | 430,000   | 200,000   | 470,000   | 200,000                   | 260,000   | 125,000 | 260,000 | 845,000   | 1,933,000    |                          |     | 114,962 Critical                          |
| Wet            | 530,000                | 900,000   | 470,000   | 880,000   | 270,000                   | 320,000   | 160,000 | 330,000 | 1,080,000 | 3,018,000    |                          |     | 251,929 Below Normal                      |
| Mar 20 Update  |                        |           |           |           |                           |           |         |         |           |              |                          |     |                                           |
| Dry            | 220,000                | 400,000   | 180,000   | 370,000   | 160,000                   | 205,000   | 90,000  | 200,000 | 655,000   | 1,487,000    |                          |     | 94,000 Critical                           |
| Average        | 310,000                | 540,000   | 270,000   | 550,000   | 200,000                   | 260,000   | 125,000 | 260,000 | 845,000   | 1,861,000    |                          |     | 112,904 Critical                          |
| Wet            | 590,000                | 980,000   | 520,000   | 930,000   | 270,000                   | 320,000   | 160,000 | 330,000 | 1,080,000 | 2,784,000    |                          |     | 182,572 Below Normal                      |
| Mar 27 Update  |                        |           |           |           |                           |           |         |         |           |              |                          |     |                                           |
| Dry            | 220,000                | 410,000   | 180,000   | 360,000   | 160,000                   | 205,000   | 90,000  | 200,000 | 655,000   | 1,733,000    |                          |     | 109,244 Critical                          |
| Average        | 310,000                | 540,000   | 260,000   | 530,000   | 200,000                   | 260,000   | 125,000 | 260,000 | 845,000   | 2,053,000    |                          |     | 120,830 Critical                          |
| Wet            | 570,000                | 950,000   | 500,000   | 880,000   | 270,000                   | 320,000   | 160,000 | 330,000 | 1,080,000 | 2,856,000    |                          |     | 225,253 Below Normal                      |
| Apr 1 Forecast |                        |           |           |           |                           |           |         |         |           |              |                          |     |                                           |
| Dry            | 215,000                | 415,000   | 175,000   | 390,000   | 160,000                   | 205,000   | 90,000  | 200,000 | 655,000   | 1,733,000    |                          |     | 109,244 Critical                          |
| Average        | 320,000                | 570,000   | 270,000   | 570,000   | 215,000                   | 255,000   | 115,000 | 245,000 | 830,000   | 2,104,000    |                          |     | 119,793 Critical                          |
| Wet            | 570,000                | 950,000   | 500,000   | 900,000   | 215,000                   | 255,000   | 115,000 | 245,000 | 830,000   | 2,818,000    |                          |     | 203,913 Below Normal                      |
| Apr 10 Update  |                        |           |           |           |                           |           |         |         |           |              |                          |     |                                           |
| Dry            | 210,000                | 420,000   | 180,000   | 390,000   | 215,000                   | 255,000   | 115,000 | 245,000 | 830,000   | 1,786,000    |                          |     | 110,760 Critical                          |
| Average        | 310,000                | 570,000   | 270,000   | 560,000   | 215,000                   | 255,000   | 115,000 | 245,000 | 830,000   | 2,092,000    |                          |     | 122,040 Critical                          |
| Wet            | 520,000                | 890,000   | 470,000   | 850,000   | 215,000                   | 255,000   | 115,000 | 245,000 | 830,000   | 2,704,000    |                          |     | 163,352 Below Normal                      |
| Apr 17 Update  |                        |           |           |           |                           |           |         |         |           |              |                          |     |                                           |
| Dry            | 260,000                | 550,000   | 280,000   | 510,000   | 215,000                   | 255,000   | 115,000 | 245,000 | 830,000   | 2,026,000    |                          |     | 118,237 Critical                          |
| Average        | 360,000                | 680,000   | 360,000   | 680,000   | 215,000                   | 255,000   | 115,000 | 245,000 | 830,000   | 2,314,000    |                          |     | 134,975 Dry                               |
| Wet            | 530,000                | 950,000   | 530,000   | 930,000   | 215,000                   | 255,000   | 115,000 | 245,000 | 830,000   | 2,830,000    |                          |     | 196,206 Below Normal                      |
| Apr 24 Update  |                        |           |           |           |                           |           |         |         |           |              |                          |     |                                           |
| Dry            | 250,000                | 520,000   | 260,000   | 490,000   | 215,000                   | 255,000   | 115,000 | 245,000 | 830,000   | 1,978,000    |                          |     | 116,249 Critical                          |
| Average        | 340,000                | 640,000   | 330,000   | 650,000   | 215,000                   | 255,000   | 115,000 | 245,000 | 830,000   | 2,242,000    |                          |     | 130,746 Dry                               |
| Wet            | 480,000                | 860,000   | 470,000   | 860,000   | 215,000                   | 255,000   | 115,000 | 245,000 | 830,000   | 2,668,000    |                          |     | 160,486 Below Normal                      |
| May 1 Forecast |                        |           |           |           |                           |           |         |         |           |              |                          |     |                                           |
| Dry            | 330,000                | 590,000   | 295,000   | 550,000   | 215,000                   | 255,000   | 115,000 | 245,000 | 830,000   | 2,125,000    |                          |     | 123,942 Dry                               |
| Average        | 370,000                | 660,000   | 320,000   | 680,000   | 215,000                   | 255,000   | 115,000 | 245,000 | 830,000   | 2,284,000    |                          |     | 133,213 Dry                               |
| Wet            | 500,000                | 830,000   | 430,000   | 850,000   | 215,000                   | 255,000   | 115,000 | 245,000 | 830,000   | 2,632,000    |                          |     | 157,619 Below Normal                      |
| May 08 Update  |                        |           |           |           |                           |           |         |         |           |              |                          |     |                                           |

Table 1

SAN JOAQUIN VALLEY WATER YEAR HYDROLOGIC CLASSIFICATION  
602020 INDEX

| YEAR          | APRIL-JULY RUNOFF (AF) |          |         |         | OCTOBER-MARCH RUNOFF (AF) |          |         |         | TOTAL   | 602020 INDEX | TUOLUMNE RIVER           |              | San Joaquin Index<br>(not the FERC Index) |
|---------------|------------------------|----------|---------|---------|---------------------------|----------|---------|---------|---------|--------------|--------------------------|--------------|-------------------------------------------|
|               | STANISLAUS             | TUOLUMNE | MERCED  | FRIANT  | STANISLAUS                | TUOLUMNE | MERCED  | FRIANT  |         |              | MINIMUM FLOW REQUIREMENT |              |                                           |
| Dry           | 330,000                | 590,000  | 295,000 | 550,000 | 215,000                   | 255,000  | 115,000 | 245,000 | 830,000 | 2,125,000    | 123,942                  | Dry          |                                           |
| Average       | 360,000                | 650,000  | 310,000 | 660,000 | 215,000                   | 255,000  | 115,000 | 245,000 | 830,000 | 2,254,000    | 131,451                  | Dry          |                                           |
| Wet           | 480,000                | 800,000  | 400,000 | 810,000 | 215,000                   | 255,000  | 115,000 | 245,000 | 830,000 | 2,560,000    | 151,886                  | Below Normal |                                           |
| May 15 Update |                        |          |         |         |                           |          |         |         |         |              |                          |              |                                           |
| Dry           | 345,000                | 600,000  | 295,000 | 560,000 | 215,000                   | 255,000  | 115,000 | 245,000 | 830,000 | 2,146,000    | 125,152                  | Dry          |                                           |
| Average       | 380,000                | 660,000  | 320,000 | 650,000 | 215,000                   | 255,000  | 115,000 | 245,000 | 830,000 | 2,272,000    | 132,508                  | Dry          |                                           |
| Wet           | 490,000                | 800,000  | 400,000 | 770,000 | 215,000                   | 255,000  | 115,000 | 245,000 | 830,000 | 2,542,000    | 150,452                  | Below Normal |                                           |
| May 22 Update |                        |          |         |         |                           |          |         |         |         |              |                          |              |                                           |
| Dry           | 350,000                | 600,000  | 290,000 | 530,000 | 215,000                   | 255,000  | 115,000 | 245,000 | 830,000 | 2,128,000    | 124,115                  | Dry          |                                           |
| Average       | 390,000                | 660,000  | 320,000 | 620,000 | 215,000                   | 255,000  | 115,000 | 245,000 | 830,000 | 2,260,000    | 131,803                  | Dry          |                                           |
| Wet           | 470,000                | 780,000  | 380,000 | 720,000 | 215,000                   | 255,000  | 115,000 | 245,000 | 830,000 | 2,476,000    | 145,197                  | Dry          |                                           |
| May 29 Update |                        |          |         |         |                           |          |         |         |         |              |                          |              |                                           |
| Dry           | 360,000                | 590,000  | 290,000 | 540,000 | 215,000                   | 255,000  | 115,000 | 245,000 | 830,000 | 2,134,000    | 124,461                  | Dry          |                                           |
| Average       | 390,000                | 650,000  | 310,000 | 610,000 | 215,000                   | 255,000  | 115,000 | 245,000 | 830,000 | 2,242,000    | 130,746                  | Dry          |                                           |
| Wet           | 460,000                | 760,000  | 360,000 | 680,000 | 215,000                   | 255,000  | 115,000 | 245,000 | 830,000 | 2,422,000    | 141,318                  | Dry          |                                           |
| Jun 05 Update |                        |          |         |         |                           |          |         |         |         |              |                          |              |                                           |
| Dry           | 370,000                | 610,000  | 290,000 | 520,000 | 215,000                   | 255,000  | 115,000 | 245,000 | 830,000 | 2,140,000    | 124,807                  | Dry          |                                           |
| Average       | 390,000                | 660,000  | 310,000 | 580,000 | 215,000                   | 255,000  | 115,000 | 245,000 | 830,000 | 2,230,000    | 130,041                  | Dry          |                                           |
| Wet           | 450,000                | 750,000  | 350,000 | 640,000 | 215,000                   | 255,000  | 115,000 | 245,000 | 830,000 | 2,380,000    | 138,851                  | Dry          |                                           |

**Table 2**  
**Tuolumne River Flow Schedule**  
 Based on DWR 60-20-20 Final Index for 2012, Final Hydrologic Conditions  
**SCHEDULE FOR 2012 - 2013 Fish Flow Year**

| DATE        |             | Number of<br>DAYS | BASE FLOW |       |                | PULSE FLOW |       |                | INTERPOLATION FLOW |       |                | TOTAL FERC FLOW |                |
|-------------|-------------|-------------------|-----------|-------|----------------|------------|-------|----------------|--------------------|-------|----------------|-----------------|----------------|
| From:       | To:         |                   | CFS       | AF    | ACCUM.<br>A.F. | CFS        | AF    | ACCUM.<br>A.F. | CFS                | AF    | ACCUM.<br>A.F. | CFS             | ACCUM.<br>A.F. |
| 15-Apr-2012 | 15-Apr-2012 | 1                 | 150       | 298   | 298            | 0          | 0     | 0              | 0                  | 0     | 0              | 150             | 298            |
| 16-Apr-2012 | 16-Apr-2012 | 1                 | 150       | 298   | 595            | 0          | 0     | 0              | 0                  | 0     | 0              | 150             | 595            |
| 17-Apr-2012 | 17-Apr-2012 | 1                 | 150       | 298   | 893            | 0          | 0     | 0              | 0                  | 0     | 0              | 150             | 893            |
| 18-Apr-2012 | 18-Apr-2012 | 1                 | 150       | 298   | 1,190          | 0          | 0     | 0              | 0                  | 0     | 0              | 150             | 1,190          |
| 19-Apr-2012 | 19-Apr-2012 | 1                 | 150       | 298   | 1,488          | 0          | 0     | 0              | 0                  | 0     | 0              | 150             | 1,488          |
| 20-Apr-2012 | 20-Apr-2012 | 1                 | 150       | 298   | 1,785          | 0          | 0     | 0              | 0                  | 0     | 0              | 150             | 1,785          |
| 21-Apr-2012 | 21-Apr-2012 | 1                 | 150       | 298   | 2,083          | 0          | 0     | 0              | 0                  | 0     | 0              | 150             | 2,083          |
| 22-Apr-2012 | 22-Apr-2012 | 1                 | 150       | 298   | 2,380          | 0          | 0     | 0              | 0                  | 0     | 0              | 150             | 2,380          |
| 23-Apr-2012 | 23-Apr-2012 | 1                 | 150       | 298   | 2,678          | 0          | 0     | 0              | 0                  | 0     | 0              | 150             | 2,678          |
| 24-Apr-2012 | 24-Apr-2012 | 1                 | 150       | 298   | 2,975          | 0          | 0     | 0              | 0                  | 0     | 0              | 150             | 2,975          |
| 25-Apr-2012 | 25-Apr-2012 | 1                 | 150       | 298   | 3,273          | 45         | 90    | 90             | 0                  | 0     | 0              | 195             | 3,363          |
| 26-Apr-2012 | 26-Apr-2012 | 1                 | 150       | 298   | 3,570          | 50         | 99    | 189            | 0                  | 0     | 0              | 200             | 3,759          |
| 27-Apr-2012 | 27-Apr-2012 | 1                 | 150       | 298   | 3,868          | 150        | 298   | 487            | 0                  | 0     | 0              | 300             | 4,355          |
| 28-Apr-2012 | 28-Apr-2012 | 1                 | 150       | 298   | 4,165          | 200        | 397   | 883            | 0                  | 0     | 0              | 350             | 5,049          |
| 29-Apr-2012 | 29-Apr-2012 | 1                 | 150       | 298   | 4,463          | 200        | 397   | 1,280          | 0                  | 0     | 0              | 350             | 5,743          |
| 30-Apr-2012 | 30-Apr-2012 | 1                 | 150       | 298   | 4,760          | 200        | 397   | 1,677          | 0                  | 0     | 0              | 350             | 6,437          |
| 01-May-2012 | 01-May-2012 | 1                 | 150       | 298   | 5,058          | 500        | 992   | 2,669          | 0                  | 0     | 0              | 650             | 7,726          |
| 02-May-2012 | 02-May-2012 | 1                 | 150       | 298   | 5,355          | 500        | 992   | 3,660          | 0                  | 0     | 0              | 650             | 9,016          |
| 03-May-2012 | 03-May-2012 | 1                 | 150       | 298   | 5,653          | 500        | 992   | 4,652          | 0                  | 0     | 0              | 650             | 10,305         |
| 04-May-2012 | 04-May-2012 | 1                 | 150       | 298   | 5,950          | 500        | 992   | 5,644          | 0                  | 0     | 0              | 650             | 11,594         |
| 05-May-2012 | 05-May-2012 | 1                 | 150       | 298   | 6,248          | 500        | 992   | 6,636          | 0                  | 0     | 0              | 650             | 12,883         |
| 06-May-2012 | 06-May-2012 | 1                 | 150       | 298   | 6,545          | 500        | 992   | 7,627          | 0                  | 0     | 0              | 650             | 14,173         |
| 07-May-2012 | 07-May-2012 | 1                 | 150       | 298   | 6,843          | 500        | 992   | 8,619          | 0                  | 0     | 0              | 650             | 15,462         |
| 08-May-2012 | 08-May-2012 | 1                 | 150       | 298   | 7,140          | 500        | 992   | 9,611          | 0                  | 0     | 0              | 650             | 16,751         |
| 09-May-2012 | 09-May-2012 | 1                 | 150       | 298   | 7,438          | 1,900      | 3,769 | 13,379         | 0                  | 0     | 0              | 2,050           | 20,817         |
| 10-May-2012 | 10-May-2012 | 1                 | 150       | 298   | 7,736          | 1,900      | 3,769 | 17,148         | 0                  | 0     | 0              | 2,050           | 24,883         |
| 11-May-2012 | 11-May-2012 | 1                 | 150       | 298   | 8,033          | 1,900      | 3,769 | 20,917         | 0                  | 0     | 0              | 2,050           | 28,950         |
| 12-May-2012 | 12-May-2012 | 1                 | 150       | 298   | 8,331          | 1,900      | 3,769 | 24,685         | 0                  | 0     | 0              | 2,050           | 33,016         |
| 13-May-2012 | 13-May-2012 | 1                 | 150       | 298   | 8,628          | 1,150      | 2,281 | 26,966         | 0                  | 0     | 0              | 1,300           | 35,594         |
| 14-May-2012 | 14-May-2012 | 1                 | 150       | 298   | 8,926          | 850        | 1,686 | 28,652         | 0                  | 0     | 0              | 1,000           | 37,578         |
| 15-May-2012 | 15-May-2012 | 1                 | 150       | 298   | 9,223          | 600        | 1,190 | 29,842         | 0                  | 0     | 0              | 750             | 39,065         |
| 16-May-2012 | 16-May-2012 | 1                 | 150       | 298   | 9,521          | 100        | 198   | 30,040         | 0                  | 0     | 0              | 250             | 39,561         |
| 17-May-2012 | 17-May-2012 | 1                 | 150       | 298   | 9,818          | 100        | 198   | 30,239         | 0                  | 0     | 0              | 250             | 40,057         |
| 18-May-2012 | 18-May-2012 | 1                 | 150       | 298   | 10,116         | 100        | 198   | 30,437         | 0                  | 0     | 0              | 250             | 40,553         |
| 19-May-2012 | 19-May-2012 | 1                 | 150       | 298   | 10,413         | 100        | 198   | 30,636         | 0                  | 0     | 0              | 250             | 41,049         |
| 20-May-2012 | 20-May-2012 | 1                 | 150       | 298   | 10,711         | 250        | 496   | 31,131         | 0                  | 0     | 0              | 400             | 41,842         |
| 21-May-2012 | 21-May-2012 | 1                 | 150       | 298   | 11,008         | 250        | 496   | 31,627         | 0                  | 0     | 0              | 400             | 42,636         |
| 22-May-2012 | 22-May-2012 | 1                 | 150       | 298   | 11,306         | 250        | 496   | 32,123         | 0                  | 0     | 0              | 400             | 43,429         |
| 23-May-2012 | 23-May-2012 | 1                 | 150       | 298   | 11,603         | 250        | 496   | 32,619         | 0                  | 0     | 0              | 400             | 44,222         |
| 24-May-2012 | 24-May-2012 | 1                 | 150       | 298   | 11,901         | 0          | 0     | 32,619         | 611                | 1,212 | 1212           | 761             | 45,732         |
| 25-May-2012 | 25-May-2012 | 1                 | 150       | 298   | 12,198         | 0          | 0     | 32,619         | 611                | 1,212 | 2425           | 761             | 47,242         |
| 26-May-2012 | 26-May-2012 | 1                 | 150       | 298   | 12,496         | 0          | 0     | 32,619         | 611                | 1,212 | 3637           | 761             | 48,752         |
| 27-May-2012 | 27-May-2012 | 1                 | 150       | 298   | 12,793         | 0          | 0     | 32,619         | 611                | 1,212 | 4849           | 761             | 50,261         |
| 28-May-2012 | 28-May-2012 | 1                 | 150       | 298   | 13,091         | 0          | 0     | 32,619         | 611                | 1,212 | 6061           | 761             | 51,771         |
| 29-May-2012 | 29-May-2012 | 1                 | 150       | 298   | 13,388         | 0          | 0     | 32,619         | 200                | 397   | 6458           | 350             | 52,465         |
| 30-May-2012 | 30-May-2012 | 1                 | 150       | 298   | 13,686         | 0          | 0     | 32,619         | 50                 | 99    | 6557           | 200             | 52,862         |
| 31-May-2012 | 31-May-2012 | 1                 | 150       | 298   | 13,983         | 0          | 0     | 32,619         | 25                 | 50    | 6607           | 175             | 53,209         |
| 01-Jun-2012 | 01-Jun-2012 | 1                 | 50        | 99    | 14,083         | 0          | 0     | 32,619         | 100                | 198   | 6805           | 150             | 53,507         |
| 02-Jun-2012 | 02-Jun-2012 | 1                 | 50        | 99    | 14,182         | 0          | 0     | 32,619         | 75                 | 149   | 6954           | 125             | 53,755         |
| 03-Jun-2012 | 03-Jun-2012 | 1                 | 50        | 99    | 14,281         | 0          | 0     | 32,619         | 50                 | 99    | 7053           | 100             | 53,953         |
| 04-Jun-2012 | 04-Jun-2012 | 1                 | 50        | 99    | 14,380         | 0          | 0     | 32,619         | 25                 | 50    | 7103           | 75              | 54,102         |
| 05-Jun-2012 | 05-Jun-2012 | 1                 | 50        | 99    | 14,479         | 0          | 0     | 32,619         | 0                  | 0     | 7103           | 50              | 54,201         |
| 06-Jun-2012 | 06-Jun-2012 | 1                 | 50        | 99    | 14,579         | 0          | 0     | 32,619         | 0                  | 0     | 7103           | 50              | 54,300         |
| 07-Jun-2012 | 30-Jun-2012 | 24                | 50        | 2,380 | 16,959         | 0          | 0     | 32,619         | 0                  | 0     | 7103           | 50              | 56,680         |
| 01-Jul-2012 | 31-Jul-2012 | 31                | 50        | 3,074 | 20,033         | 0          | 0     | 32,619         | 0                  | 0     | 7103           | 50              | 59,755         |
| 01-Aug-2012 | 31-Aug-2012 | 31                | 50        | 3,074 | 23,107         | 0          | 0     | 32,619         | 0                  | 0     | 7103           | 50              | 62,829         |
| 01-Sep-2012 | 30-Sep-2012 | 30                | 50        | 2,975 | 26,083         | 0          | 0     | 32,619         | 0                  | 0     | 7103           | 50              | 65,804         |
| 01-Oct-2012 | 01-Oct-2012 | 1                 | 150       | 298   | 26,380         | 0          | 0     | 32,619         | 0                  | 0     | 7103           | 150             | 66,102         |
| 02-Oct-2012 | 07-Oct-2012 | 6                 | 150       | 1,785 | 28,165         | 0          | 0     | 32,619         | 0                  | 0     | 7103           | 150             | 67,887         |
| 08-Oct-2012 | 10-Oct-2012 | 3                 | 150       | 893   | 29,058         | 0          | 0     | 32,619         | 0                  | 0     | 7103           | 150             | 68,779         |
| 11-Oct-2012 | 12-Oct-2012 | 2                 | 150       | 595   | 29,653         | 0          | 0     | 32,619         | 407                | 1,614 | 8716           | 557             | 70,988         |
| 13-Oct-2012 | 14-Oct-2012 | 2                 | 150       | 595   | 30,248         | 0          | 0     | 32,619         | 407                | 1,614 | 10330          | 557             | 73,197         |
| 15-Oct-2012 | 31-Oct-2012 | 17                | 150       | 5,058 | 35,306         | 0          | 0     | 32,619         | 0                  | 0     | 10,330         | 150             | 78,255         |
| 01-Nov-2012 | 30-Nov-2012 | 30                | 150       | 8,926 | 44,231         | 0          | 0     | 32,619         | 0                  | 0     | 10,330         | 150             | 87,181         |
| 01-Dec-2012 | 31-Dec-2012 | 31                | 150       | 9,223 | 53,455         | 0          | 0     | 32,619         | 0                  | 0     | 10,330         | 150             | 96,404         |
| 01-Jan-2013 | 31-Jan-2013 | 31                | 150       | 9,223 | 62,678         | 0          | 0     | 32,619         | 0                  | 0     | 10,330         | 150             | 105,627        |
| 01-Feb-2013 | 28-Feb-2013 | 28                | 150       | 8,331 | 71,008         | 0          | 0     | 32,619         | 0                  | 0     | 10,330         | 150             | 113,958        |
| 01-Mar-2013 | 31-Mar-2013 | 31                | 150       | 9,223 | 80,231         | 0          | 0     | 32,619         | 0                  | 0     | 10,330         | 150             | 123,181        |
| 01-Apr-2013 | 14-Apr-2013 | 14                | 150       | 4,165 | 84,397         | 0          | 0     | 32,619         | 0                  | 0     | 10,330         | 150             | 127,346        |

No. of days 365 (April 15 through April 14)

1 cfs day = 1.983471 acre-feet (af)