

**United States Bureau of Reclamation - Mid Pacific Region, Central Valley Operations Office**  
**Forecast of CVP Generation**  
**Based on USBR 90 Pct Forecast -B2, Dated 11/21/2016**  
**Losses are Estimated per WAPA Contractual Provisions**  
**Energy Generation (All values in GWh)**

| Month | Trinity | JF Carr | Spring Creek | Shasta | Keswick | Folsom | Nimbus | New Melones | Federal San Luis | O'Neill | Total Losses | Total at Tracy |          |         |
|-------|---------|---------|--------------|--------|---------|--------|--------|-------------|------------------|---------|--------------|----------------|----------|---------|
|       |         |         |              |        |         |        |        |             |                  |         |              | CVP            | Proj Use | Net CVP |
| NOV   | 10      | 9       | 9            | 108    | 22      | 17     | 3      | 4           | 0                | 0       | 3            | 180            | 70       | 110     |
| DEC   | 10      | 10      | 6            | 114    | 23      | 18     | 3      | 5           | 0                | 0       | 3            | 190            | 95       | 95      |
| JAN   | 7       | 3       | 1            | 118    | 23      | 17     | 3      | 6           | 0                | 0       | 3            | 180            | 115      | 65      |
| FEB   | 5       | 1       | 1            | 70     | 14      | 16     | 2      | 10          | 0                | 0       | 2            | 120            | 70       | 50      |
| MAR   | 6       | 1       | 5            | 76     | 15      | 18     | 3      | 16          | 0                | 0       | 2            | 140            | 65       | 75      |
| APR   | 20      | 20      | 4            | 143    | 27      | 18     | 2      | 38          | 17               | 1       | 5            | 280            | 20       | 260     |
| MAY   | 44      | 19      | 15           | 164    | 32      | 17     | 2      | 36          | 21               | 3       | 6            | 350            | 30       | 320     |
| JUN   | 41      | 34      | 31           | 203    | 41      | 29     | 4      | 37          | 21               | 3       | 8            | 430            | 30       | 400     |
| JUL   | 34      | 35      | 31           | 227    | 47      | 33     | 4      | 33          | 22               | 4       | 8            | 460            | 30       | 430     |
| AUG   | 22      | 34      | 31           | 172    | 38      | 32     | 4      | 28          | 10               | 1       | 7            | 370            | 45       | 325     |
| SEP   | 20      | 32      | 31           | 129    | 31      | 22     | 3      | 25          | 0                | 0       | 5            | 290            | 60       | 230     |
| OCT   | 9       | 9       | 15           | 135    | 31      | 15     | 2      | 0           | 0                | 0       | 4            | 210            | 110      | 100     |
| Total | 227     | 206     | 181          | 1658   | 344     | 251    | 35     | 237         | 92               | 12      | 57           | 3200           | 740      | 2460    |

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**Capacity Based on Estimated Gross Head (All values in MW)**

| Month | Trinity | JF Carr | Spring Creek | Shasta | Keswick | Folsom | Nimbus | New Melones | Federal San Luis | O'Neill | Tot. Cap. at Plant | Total Losses | Total Capacity at Tracy |          |     |         |
|-------|---------|---------|--------------|--------|---------|--------|--------|-------------|------------------|---------|--------------------|--------------|-------------------------|----------|-----|---------|
|       |         |         |              |        |         |        |        |             |                  |         |                    |              | CVP                     | Sch. Out | PU  | Net CVP |
| NOV   | 53      | 75      | 91           | 389    | 32      | 98     | 2      | 179         | 0                | 0       | 919                | 16           | 905                     | 390      | 80  | 825     |
| DEC   | 53      | 154     | 91           | 387    | 32      | 95     | 2      | 180         | 0                | 0       | 994                | 17           | 975                     | 310      | 115 | 860     |
| JAN   | 53      | 154     | 182          | 515    | 32      | 139    | 2      | 181         | 0                | 0       | 1258               | 22           | 1235                    | 180      | 105 | 1130    |
| FEB   | 53      | 154     | 182          | 522    | 22      | 141    | 2      | 181         | 0                | 0       | 1257               | 22           | 1235                    | 170      | 80  | 1155    |
| MAR   | 54      | 154     | 182          | 540    | 21      | 150    | 4      | 90          | 0                | 0       | 1196               | 21           | 1175                    | 250      | 80  | 1095    |
| APR   | 56      | 150     | 182          | 555    | 37      | 163    | 4      | 89          | 133              | 2       | 1370               | 23           | 1345                    | 120      | 35  | 1310    |
| MAY   | 55      | 147     | 182          | 555    | 43      | 175    | 3      | 173         | 119              | 3       | 1456               | 25           | 1430                    | 180      | 50  | 1380    |
| JUN   | 52      | 147     | 182          | 542    | 59      | 178    | 5      | 165         | 101              | 4       | 1436               | 25           | 1410                    | 75       | 55  | 1355    |
| JUL   | 96      | 147     | 182          | 648    | 66      | 172    | 6      | 143         | 82               | 5       | 1548               | 27           | 1520                    | 0        | 60  | 1460    |
| AUG   | 44      | 147     | 182          | 618    | 53      | 163    | 6      | 109         | 62               | 1       | 1386               | 24           | 1360                    | 25       | 65  | 1295    |
| SEP   | 41      | 148     | 182          | 596    | 29      | 155    | 5      | 79          | 38               | 0       | 1273               | 22           | 1250                    | 55       | 95  | 1155    |
| OCT   | 39      | 150     | 182          | 578    | 14      | 100    | 2      | 0           | 0                | 0       | 1065               | 19           | 1045                    | 85       | 125 | 920     |

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**Project Use Pumping**

**Project Energy Use at Tracy Load Center (All values in GWh)**

| Month | Tracy | Federal Banks | Contra Costa | O'Neill | Federal San Luis | San Felipe | Dos Amigos | Other Uses | Total at Tracy |         |          |
|-------|-------|---------------|--------------|---------|------------------|------------|------------|------------|----------------|---------|----------|
|       |       |               |              |         |                  |            |            |            | CVP            | On Peak | Off Peak |
| NOV   | 36    | 0             | 3            | 5       | 17               | 2          | 0          | 6          | 70             | 30      | 40       |
| DEC   | 53    | 0             | 3            | 11      | 22               | 1          | 1          | 5          | 95             | 40      | 55       |
| JAN   | 46    | 0             | 2            | 11      | 45               | 1          | 1          | 8          | 115            | 35      | 75       |
| FEB   | 29    | 0             | 2            | 5       | 24               | 1          | 1          | 8          | 70             | 25      | 45       |
| MAR   | 33    | 0             | 2            | 3       | 16               | 1          | 1          | 7          | 65             | 30      | 35       |
| APR   | 10    | 0             | 2            | 0       | 0                | 1          | 1          | 6          | 20             | 10      | 10       |
| MAY   | 12    | 0             | 2            | 0       | 0                | 2          | 1          | 14         | 30             | 15      | 15       |
| JUN   | 15    | 0             | 2            | 0       | 0                | 2          | 2          | 7          | 30             | 15      | 10       |
| JUL   | 16    | 0             | 2            | 0       | 0                | 2          | 2          | 10         | 30             | 15      | 15       |
| AUG   | 26    | 0             | 2            | 0       | 0                | 3          | 2          | 13         | 45             | 25      | 20       |
| SEP   | 46    | 0             | 2            | 0       | 0                | 3          | 1          | 9          | 60             | 35      | 30       |
| OCT   | 57    | 0             | 3            | 9       | 24               | 2          | 1          | 15         | 110            | 50      | 65       |
| Total | 380   | 0             | 28           | 44      | 147              | 21         | 12         | 108        | 740            | 325     | 415      |

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**Project Use Pumping**

**Project Capacity Use at Tracy Load Center (All values in MW)**

| Month | Tracy |     | Federal Banks |     | Contra Costa |     | O'Neill |     | Federal San Luis |     | San Felipe |     | Dos Amigos |     | Other<br>On/Off |
|-------|-------|-----|---------------|-----|--------------|-----|---------|-----|------------------|-----|------------|-----|------------|-----|-----------------|
|       | On    | Off | On            | Off | On           | Off | On      | Off | On               | Off | On         | Off | On         | Off |                 |
| NOV   | 51    | 51  | 0             | 0   | 4            | 4   | 8       | 8   | 0                | 58  | 2          | 2   | 6          | 6   | 8               |
| DEC   | 81    | 81  | 0             | 0   | 4            | 4   | 16      | 16  | 0                | 71  | 2          | 2   | 6          | 6   | 7               |
| JAN   | 66    | 66  | 0             | 0   | 3            | 3   | 16      | 16  | 0                | 137 | 1          | 1   | 6          | 6   | 11              |
| FEB   | 51    | 51  | 0             | 0   | 3            | 3   | 8       | 8   | 0                | 89  | 1          | 1   | 6          | 6   | 11              |
| MAR   | 51    | 51  | 0             | 0   | 3            | 3   | 8       | 8   | 0                | 66  | 2          | 2   | 6          | 6   | 10              |
| APR   | 18    | 18  | 0             | 0   | 3            | 3   | 0       | 0   | 0                | 0   | 2          | 2   | 6          | 6   | 8               |
| MAY   | 18    | 18  | 0             | 0   | 3            | 3   | 0       | 0   | 0                | 0   | 3          | 3   | 6          | 6   | 18              |
| JUN   | 36    | 36  | 0             | 0   | 2            | 2   | 0       | 0   | 0                | 0   | 3          | 3   | 6          | 6   | 10              |
| JUL   | 36    | 36  | 0             | 0   | 2            | 2   | 0       | 0   | 0                | 0   | 3          | 3   | 6          | 6   | 13              |
| AUG   | 36    | 36  | 0             | 0   | 3            | 3   | 0       | 0   | 0                | 0   | 4          | 4   | 6          | 6   | 17              |
| SEP   | 66    | 66  | 0             | 0   | 3            | 3   | 4       | 4   | 0                | 0   | 4          | 4   | 6          | 6   | 13              |
| OCT   | 81    | 81  | 0             | 0   | 4            | 4   | 12      | 12  | 0                | 84  | 3          | 3   | 6          | 6   | 20              |