



## Westlands Water District

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### **April 19, 2017 Operations Report**

#### **CVP Water Supply**

The Bureau of Reclamation's initial allocation to Central Valley Project (CVP) south-of-Delta agricultural water service contractors is 100% for the 2017-2018 water contract year. The District rescheduled 213,850 AF into 2017.

Per the rescheduling guidelines, Reclamation began tabulating *foregone pumping* (rescheduled water converted to Project water at the rate of impeded CVP pumping) amount at Jones beginning March 10. Losses will not occur until a sustained drawdown occurs in the CVP share of San Luis. The length of the Rescheduling Period and the amount of water spilled or converted to 2017 CVP water will depend on Jones pumping rate, CVP demands, and the duration that Mendota Pool demands can be met by upstream reservoir releases.

#### **Delta Pumping Plant**

For March, Jones averaged 3,648 cfs and continues pumping at 3,750 cfs. Banks did not pump for 4 weeks while Jones wheeled water for the SWP. Banks resumed pumping on April 17 at 3,200 cfs. One small unit at Jones is undergoing required maintenance. The Delta is in Excess conditions with an outflow index of 120,000 cfs, inflow diversion of 5.0% (14-day average), with available plant capacity controlling operations. Total Delta Inflow is 126,370 cfs with the San Joaquin River (SJR) at 23,871 cfs, and a positive OMR flow above +10,000 cfs. With high flows at Vernalis Jones will be able to continue pumping at the current rate. Keswick is releasing 25,000 cfs, Nimbus is releasing 10,000 cfs, and Oroville is releasing 35,000 cfs.

#### **Project Operations**

Shasta storage is 4,377,000 AF (116% of 15-year average) with current daily inflow of 22,700 cfs, Folsom is 789,000 AF (108% of 15-year average), and San Luis Reservoir (SLR) Federal storage is 964,302 AF (128% of 15-year average). Total SLR storage is 1,971,565 AF (98% full), with the State releasing 56,000 AF of water to help meet demands as Banks was shut down for Clifton Court Forebay repairs. The CVP side of SLR should remain full through May and possibly into June. Shasta continues to make releases for flood space encroachment (~ 600,000 AF) since as much as 2,000,000 AF of inflow is expected over the next three months. The State announced an allocation increased to 85% on April 14.

The combined storage of the six key federal reservoirs is 10.58 MAF. Table 1 compares the six reservoirs by year.

**Table 1: CVP Reservoirs Wet/Dry/Current Year Comparison**

DATE:			3/24/2017
RESERVOIR	15 YR AVG	March 2016	March 2017
SHASTA	3,762,000	4,176,000	4,377,000
NEW MELONES	1,484,000	648,000	1,935,000
TRINITY	1,845,000	1,440,000	2,325,000
FOLSOM	690,000	789,000	748,000
MILLERTON	320,000	296,000	233,000
SLR-FED	752,000	403,000	964,000
TOTAL	8,853,000	7,752,000	10,582,000

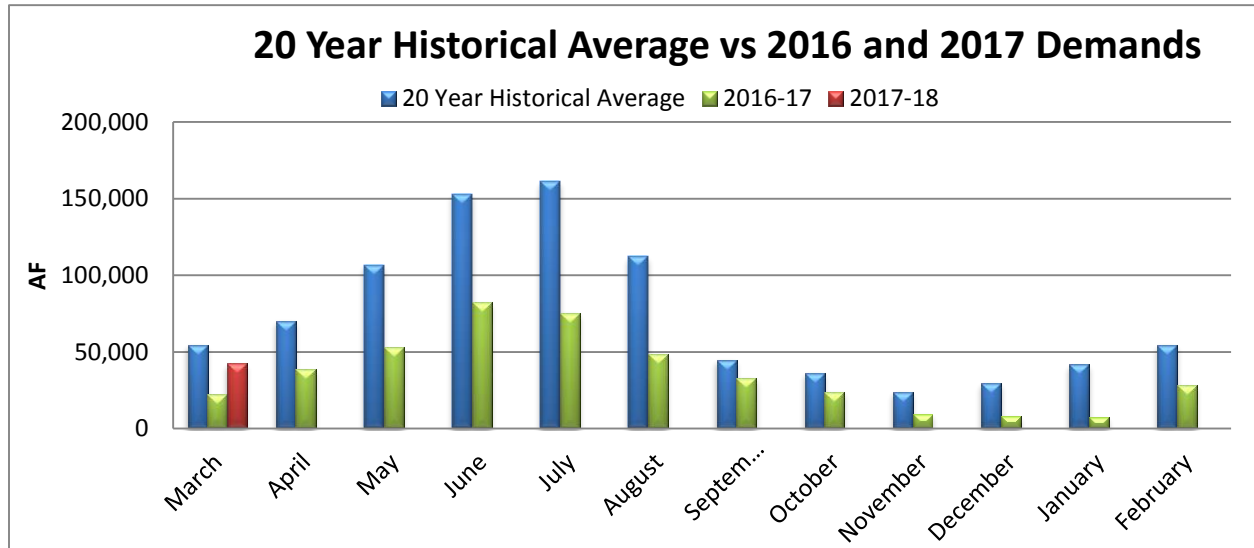
**Ground Water Management Program**

The Ground Water Management Program (GWMP) pumped 2,247 AF in March. The estimated amount of April pumping is 1,800 AF. For Water Year 2017-18 the total forecast is less than 70,000 AF.

**WWD Demands**

The water use for March including groundwater was 42,321 AF, compared to 21,957 last year, and the twenty-year historical average of 55,000 for the month. The District’s San Luis Canal (SLC) average daily demands for surface water in March were 673 cfs, delivering 40,074 AF. April surface water daily demands have averaged 1,000 cfs. Figure 1, compares WWD monthly demands in 2017 with those of last year and the twenty-year average.

**Figure 1: Historical Averages versus Current Demands**



## Water Quality

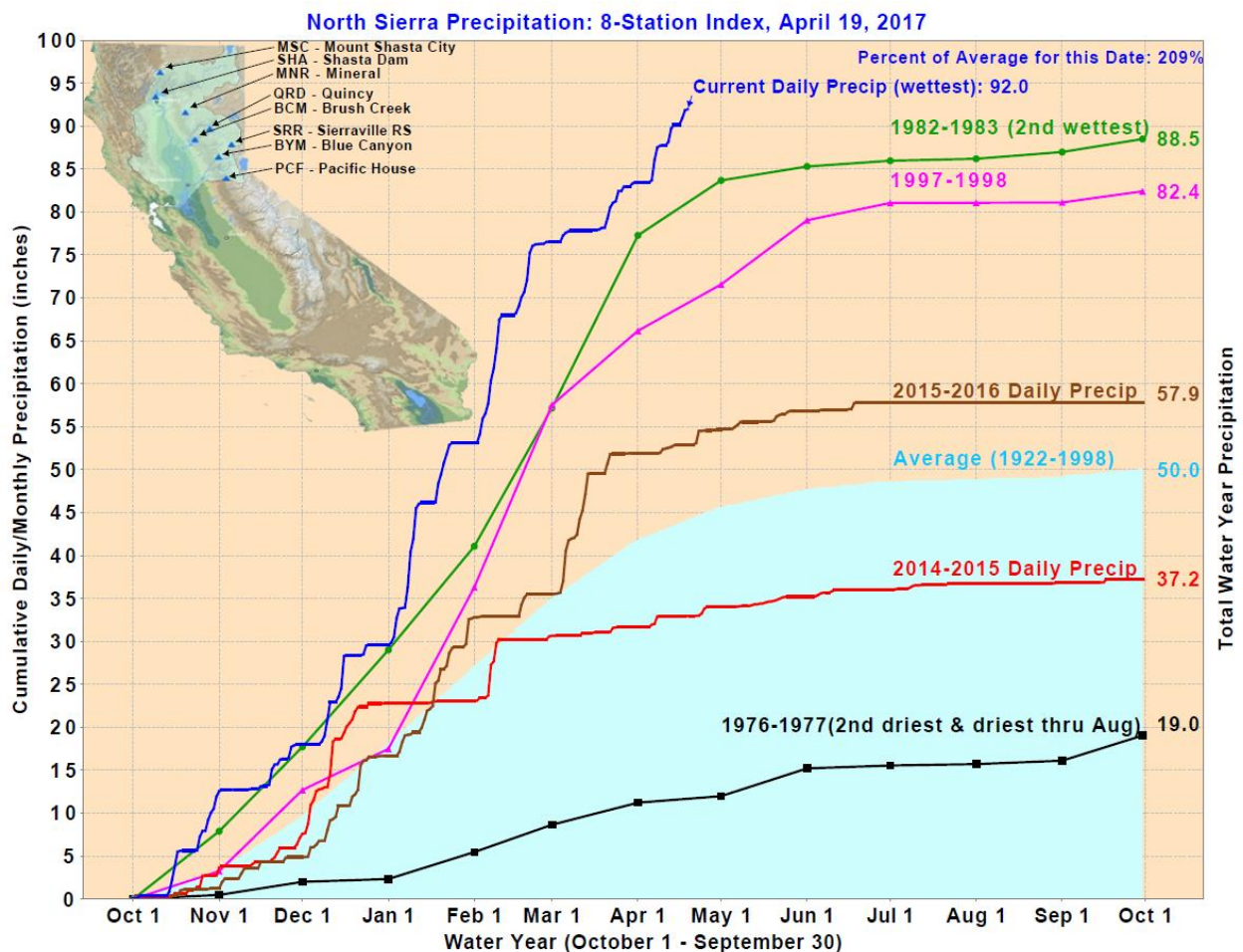
- Clifton Court (Jones): 119 uS/cm (71 mg/L TDS) with a pH of 7.5
- SLC Check 13 (O'Neill): 238 uS/cm (138 mg/L TDS) with a pH of 7.8
- SLC Check 21 (Kettleman): 279 uS/cm (174 mg/L TDS) with a pH of 7.9

## Hydrology

The 2017 Northern Sierra Precipitation 8-Station Index is reporting 92.0" as of April 19, which is 184% of the water year average, and 208% of the seasonal average to date. The Water Year 2017 is now the wettest year on record. The San Joaquin 5-Station Index is reporting 71.0", which is 174% of the water year average, and 198% of seasonal average to date.

The National Weather Service Climate Prediction Center 14-day outlook and is calling for above normal temperatures and below normal precipitation for the state. The one-month forecast is calling for normal temperatures and normal precipitation statewide.

**Figure 2: North Sierra Precipitation: 8-Station Index, April 19**

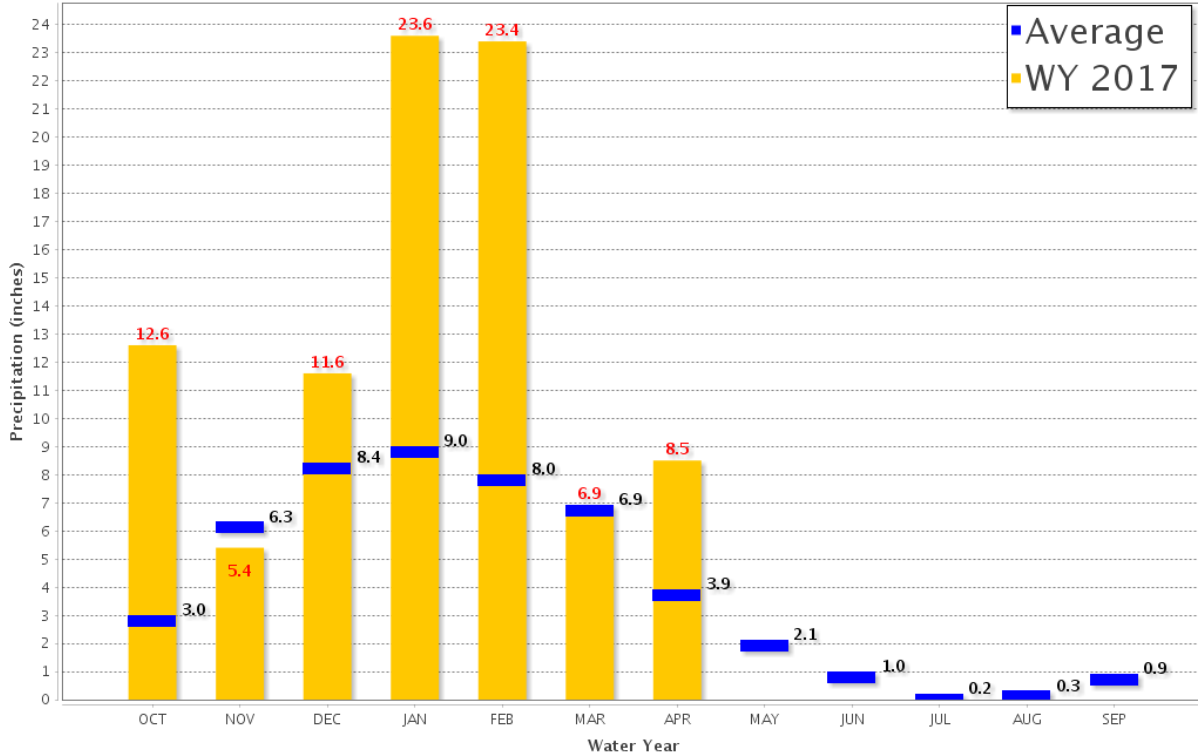


**Figure 3: North Sierra Precipitation: 8-Station Monthly Totals, April 19**



**Northern Sierra 8-Station  
Precipitation Index for Water Year 2017 - Updated on April 19, 2017 08:30 AM**

Note: Monthly totals may not add up to seasonal total because of rounding  
Water Year Monthly totals are calculated based on Daily precipitation data from 12am to 12am PST



The Snow water equivalents report as of April 19, with all stations reporting increases over last month, are reporting:

- NORTH 44" at 157% of April 1 average and 180% of normal Year to Date (YTD)
- CENTRAL 52" at 182% of April 1 average and 196% of normal YTD
- SOUTH 43" at 164% of April 1 average and 179% of normal YTD

Statewide summary is 48" at 170% of April 1 average and 187% of normal YTD.

**Figure 4: North Sierra California snow Water Content, April 18**

**California Snow Water Content, April 18, 2017, Percent of April 1 Average**

