## **California-Nevada Climate and Drought Update**



Dan McEvoy

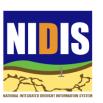
Assistant Research
Professor,
Regional Climatologist,
Western Regional Climate
Center,
Desert Research Institute

CNAP-NIDIS Drought and Climate Update Webinar November 27, 2017





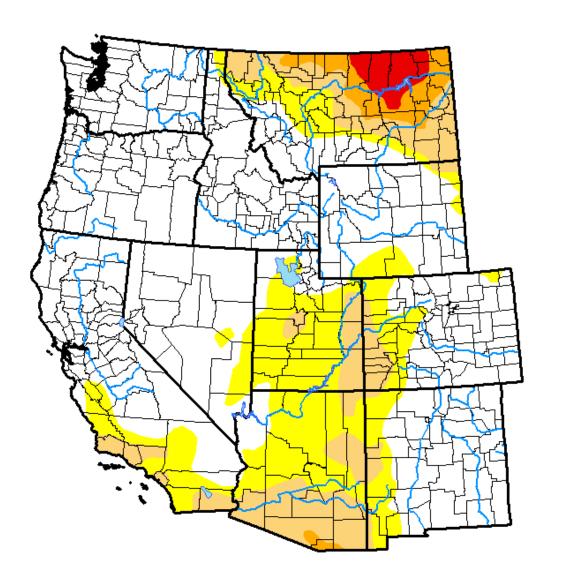




## U.S. Drought Monitor West

#### November 21, 2017

(Released Wednesday, Nov. 22, 2017) Valid 7 a.m. EST



#### Intensity:

D0 Abnormally Dry

D1 Moderate Drought

D2 Severe Drought

D3 Extreme Drought

D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

#### Author:

Richard Tinker CPC/NOAA/NWS/NCEP

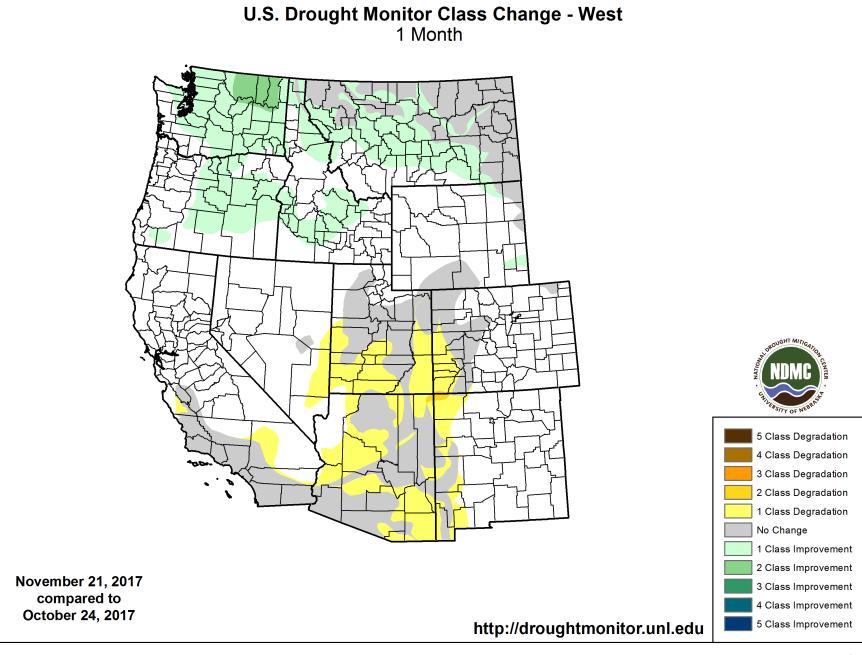




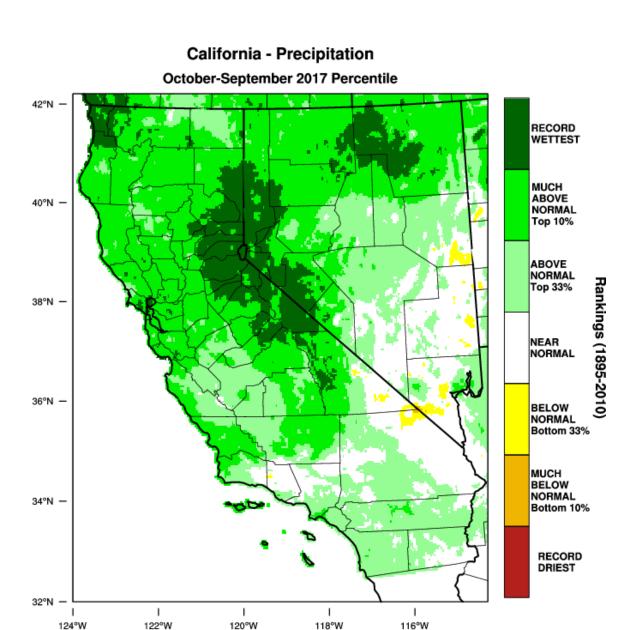




http://droughtmonitor.unl.@du/

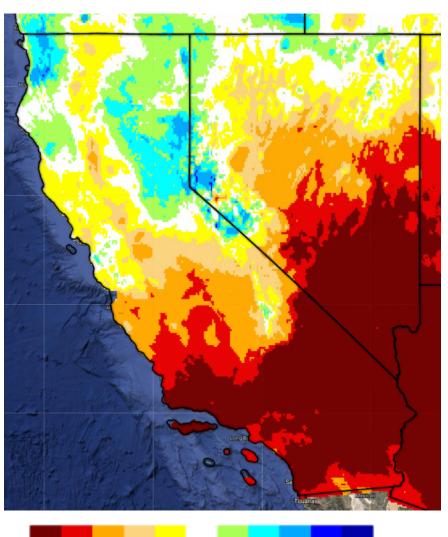


## **Water Year 2017 Precipitation**

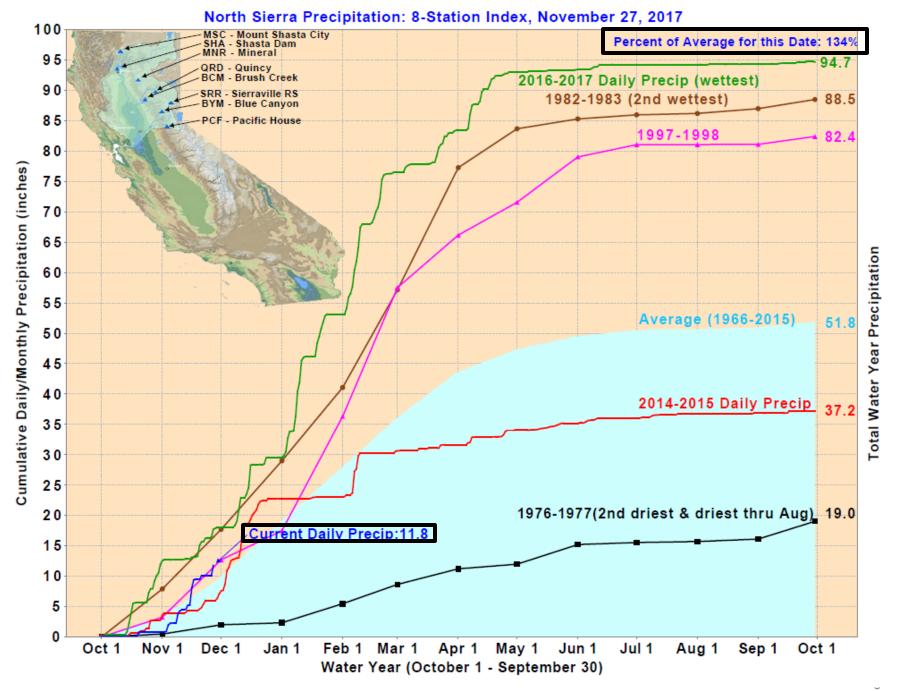


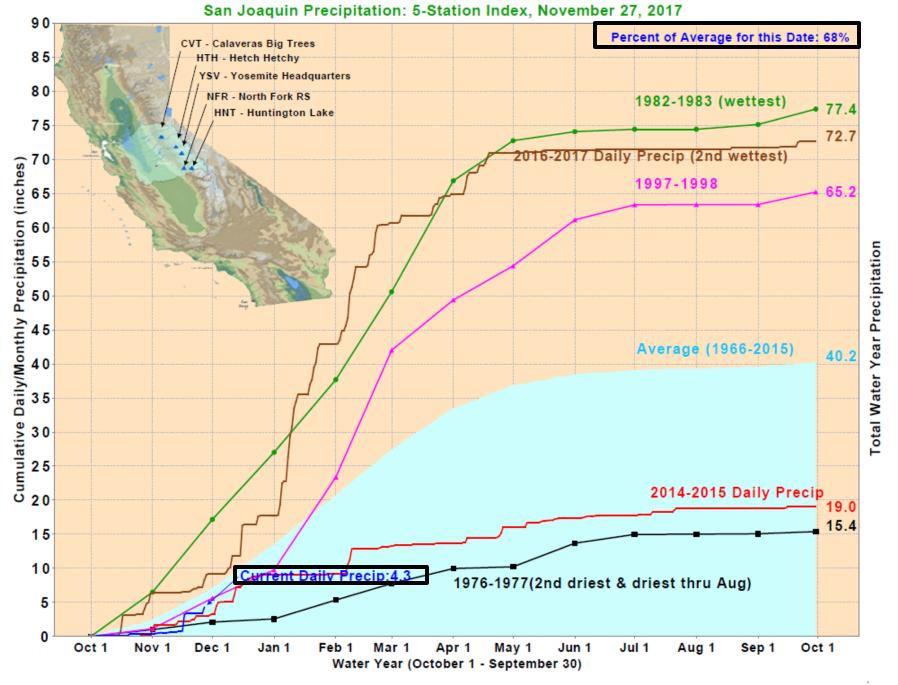
WestWide Drought Tracker, U Idaho/WRCC Data Source: PRISM (Prelim), created 16 OCT 2017

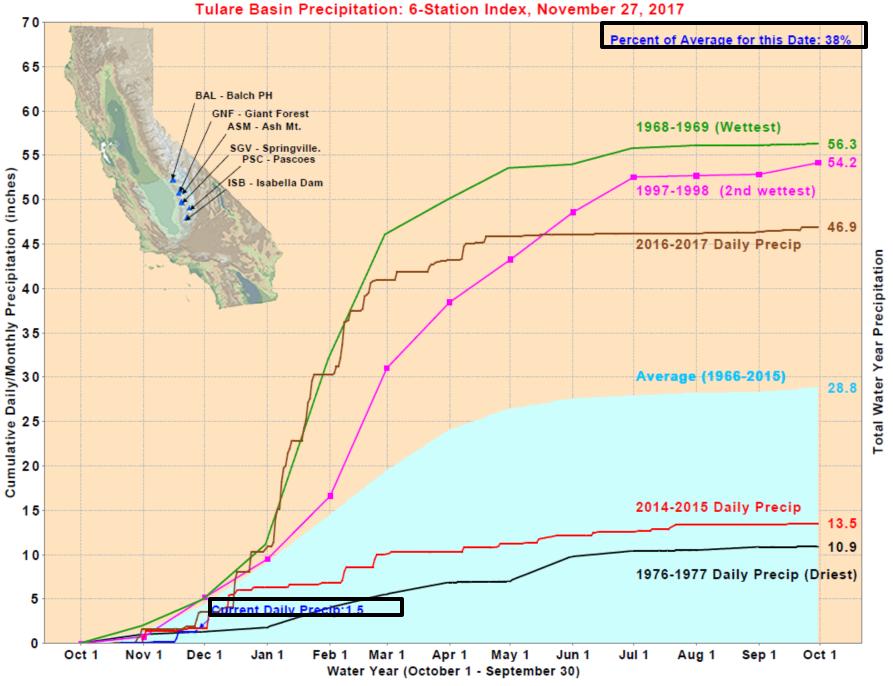
# October 1 – November 24, 2017 Percent of Average Precipitation



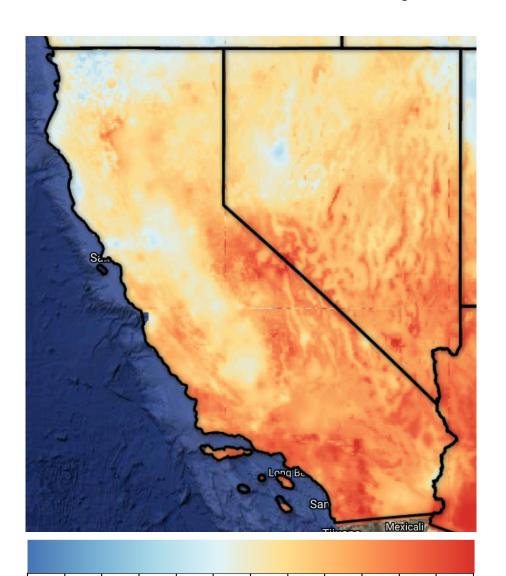
- ClimateEngine.org
- University of Idaho's gridded meteorological data
- 4-km spatial resolution
- Sharp north-south precipitation gradient so far this water year





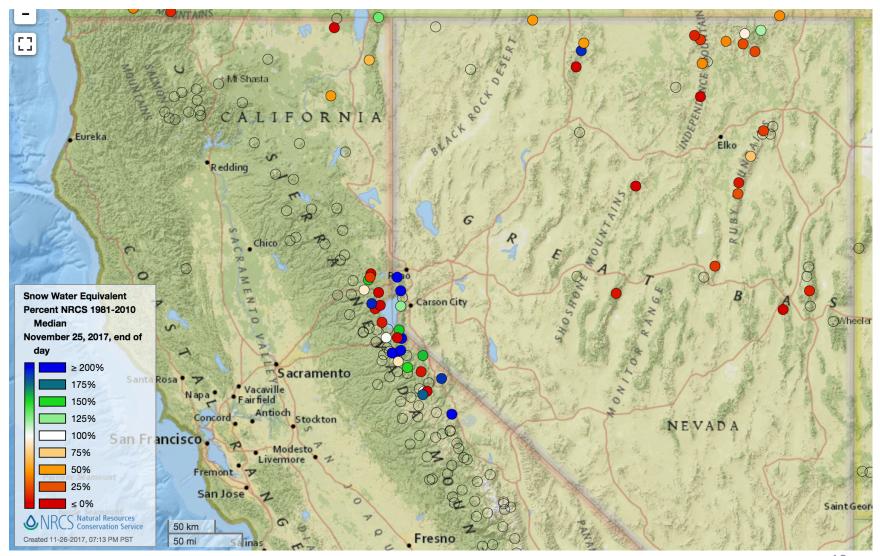


## October 1 – November 24, 2017 Mean Temperature Anomaly

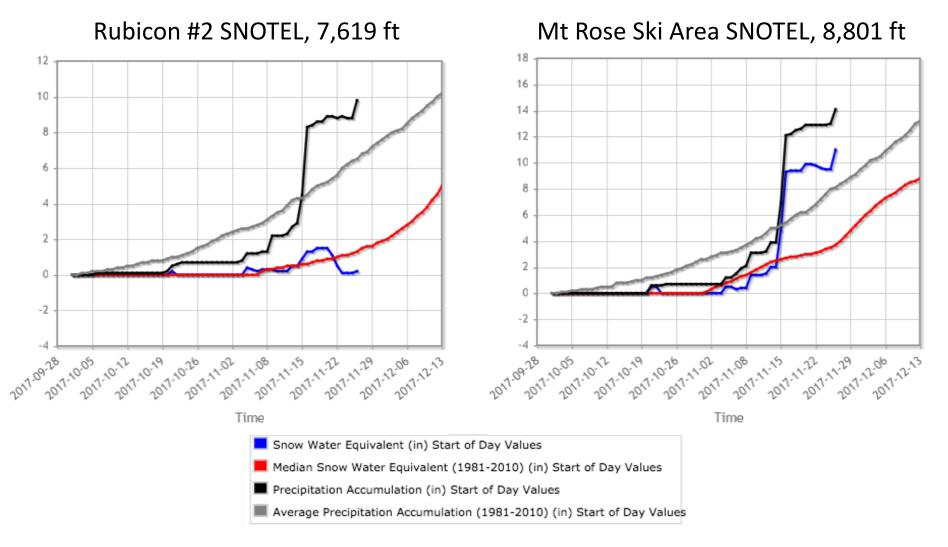


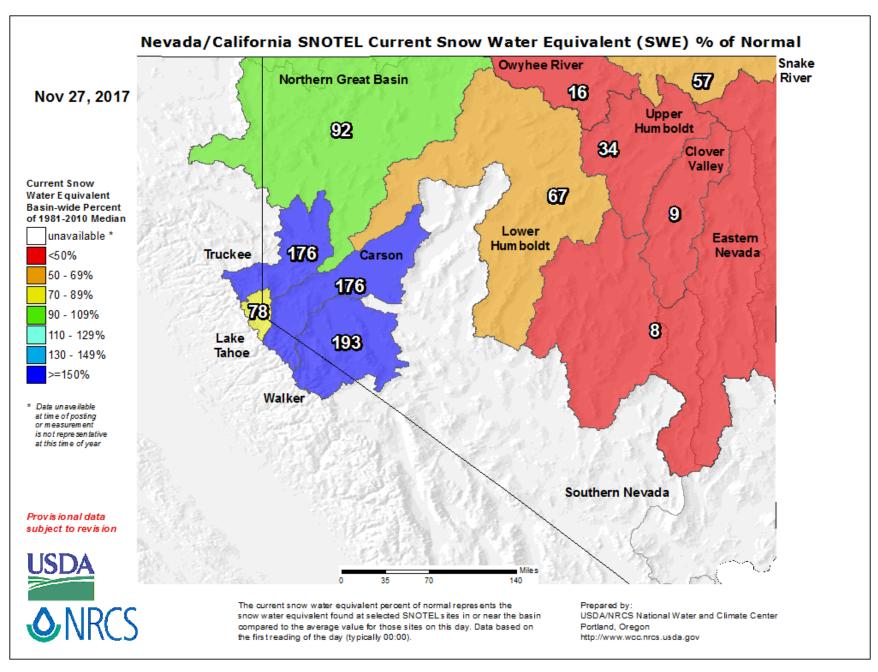
- ClimateEngine.org
- University of Idaho's gridded meteorological data
- 4-km spatial resolution
- Generally warm start to water year
- High snow levels with Sierra storms thus far

# SNOTEL Percent of Median Snow Water Equivalent, November 25, 2017

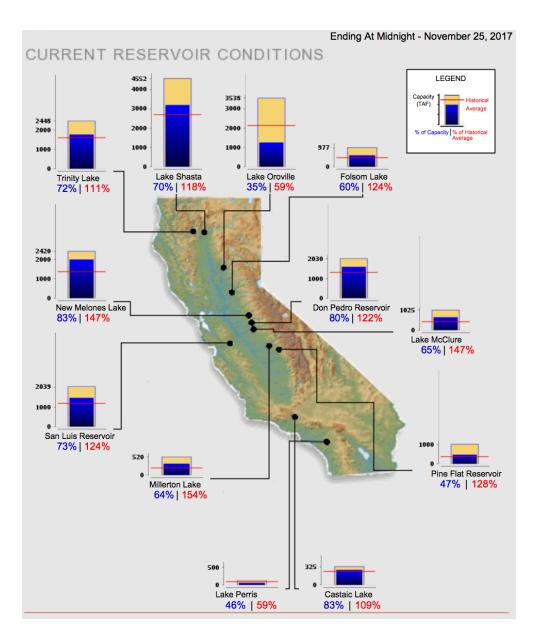


## **Early Season Snow Drought**



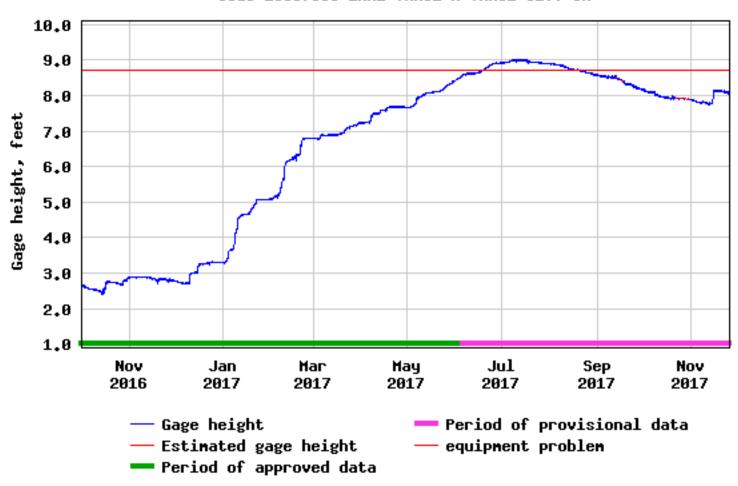


#### **California Reservoir Conditions**



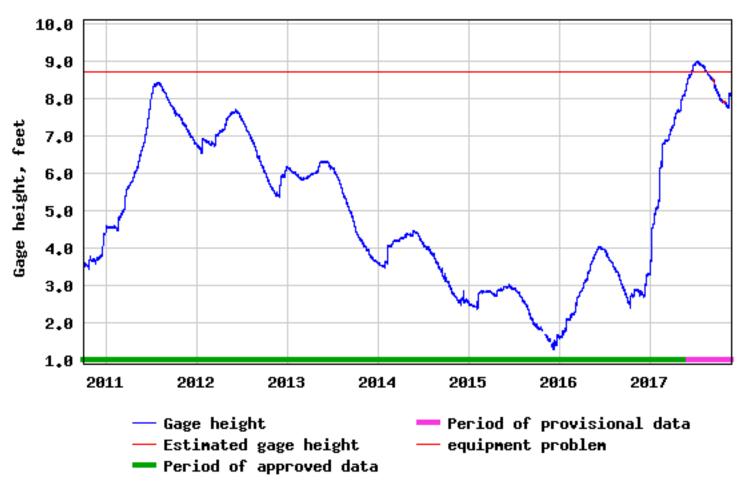
#### **Lake Tahoe Water Levels**

#### USGS 10337000 LAKE TAHOE A TAHOE CITY CA

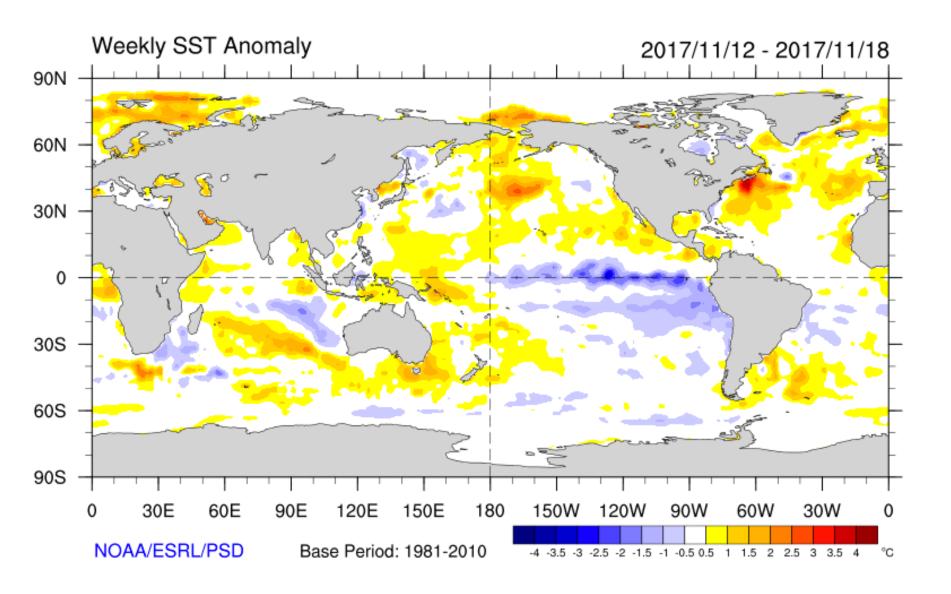


#### **Lake Tahoe Water Levels**

#### USGS 10337000 LAKE TAHOE A TAHOE CITY CA



#### **Current ENSO Conditions**



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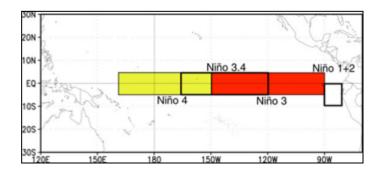
#### The latest weekly SST departures are:

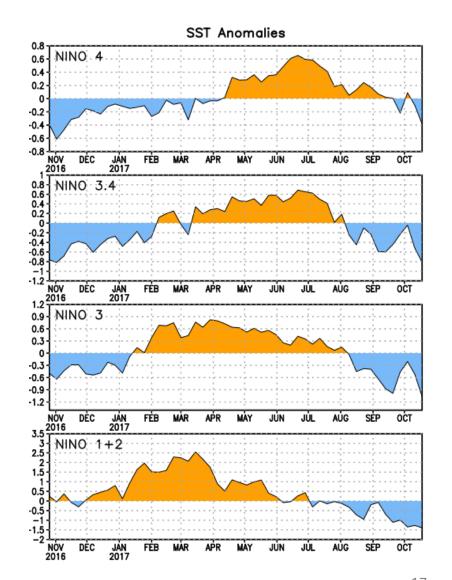
Niño 4	-0.1ºC
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Niño 3.4 -0.8ºC

Niño 3 -1.1ºC

Niño 1+2 -1.2ºC





## **Summary**

- Most of CA-NV currently drought free
- Exception being CA south coast where long-term drought impacts still exist
- Water year precipitation off to a good start in Northern Sierra and Northwest California coast
- Elsewhere, quite dry, especially southern CA and NV
- Early season snow drought conditions exist due to warm storms with high snow levels
- Reservoirs generally in good condition with a few exceptions
- La Niña conditions are present and expected to persist throughout the winter

