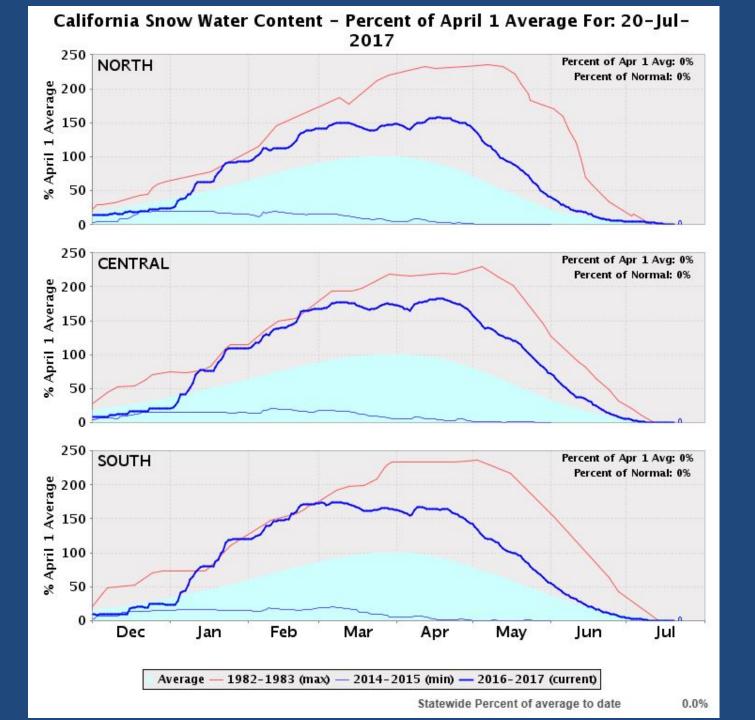
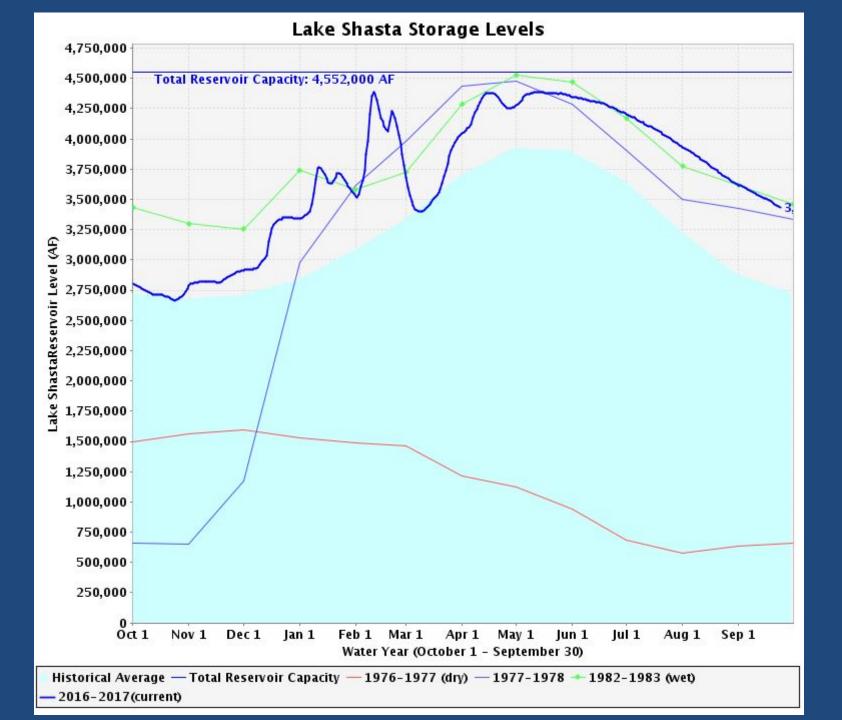
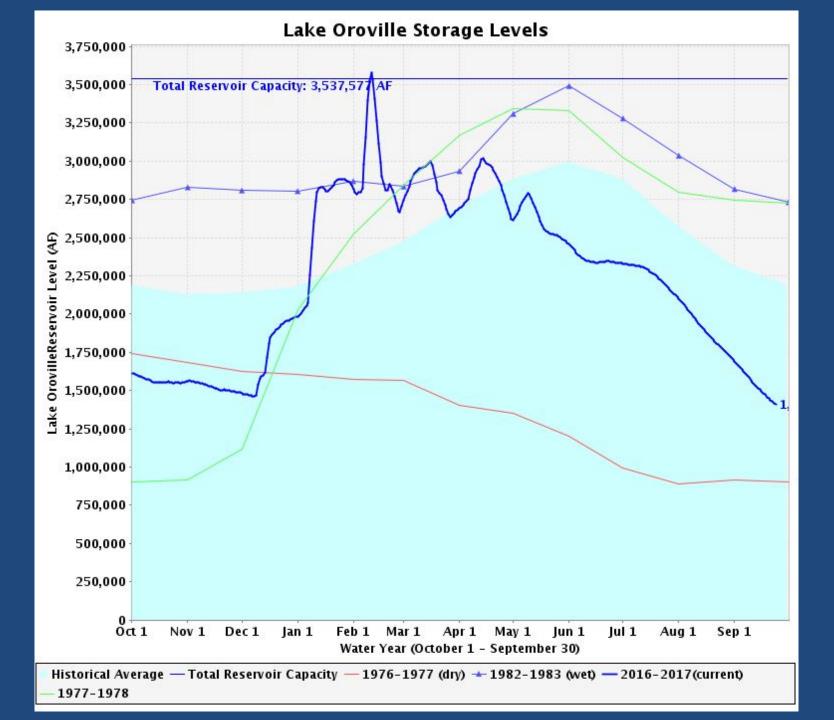
# Stanislaus County Water Advisory Committee

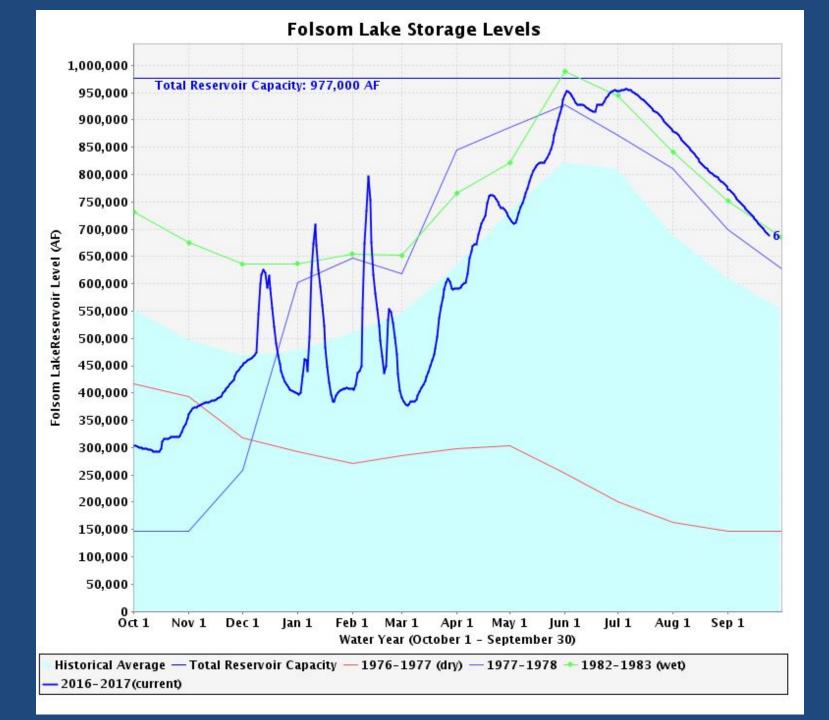
**September 27, 2017** 

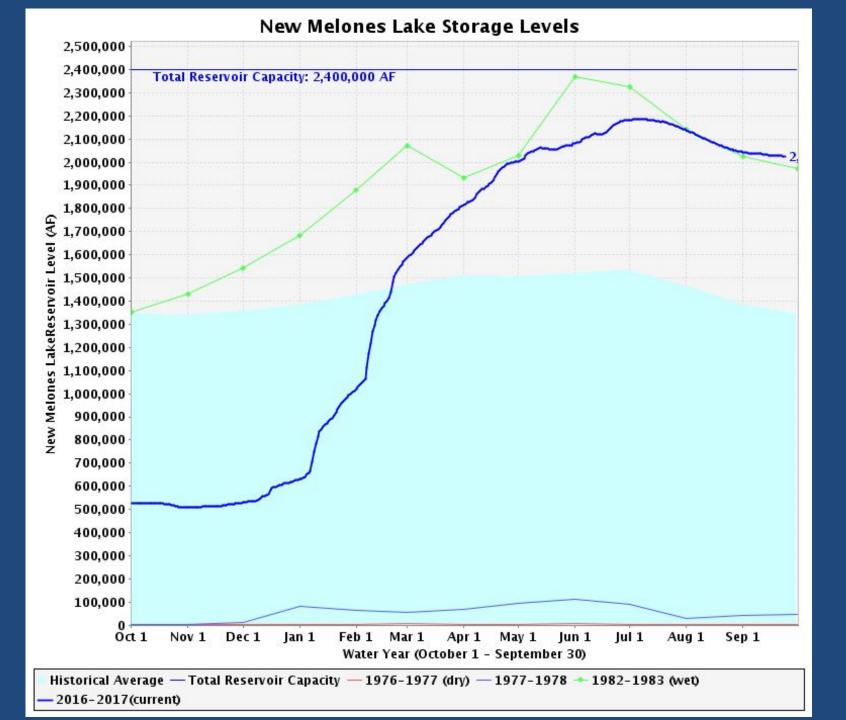
# **Snowpack and Selected Reservoir Storage Conditions**

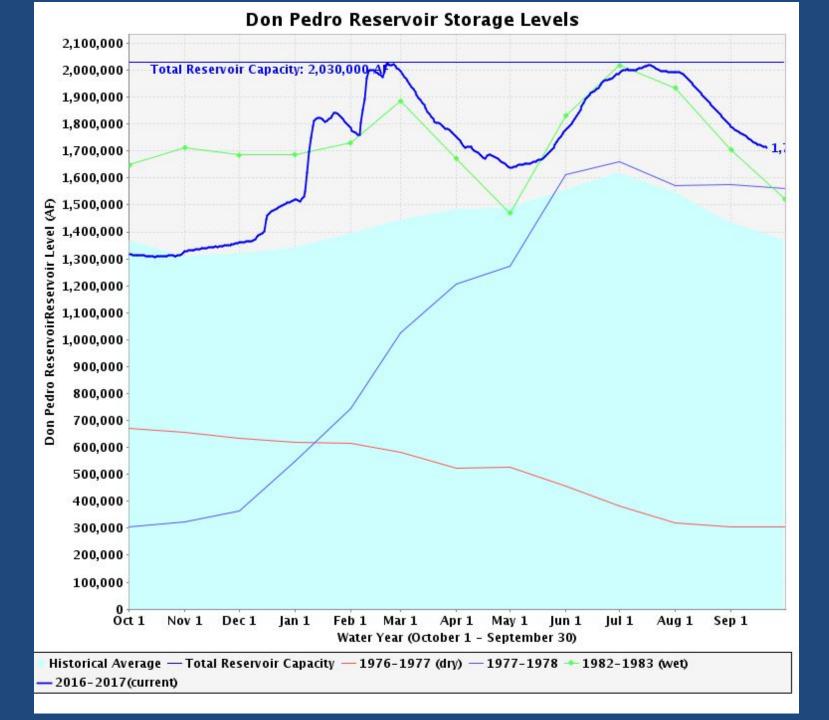


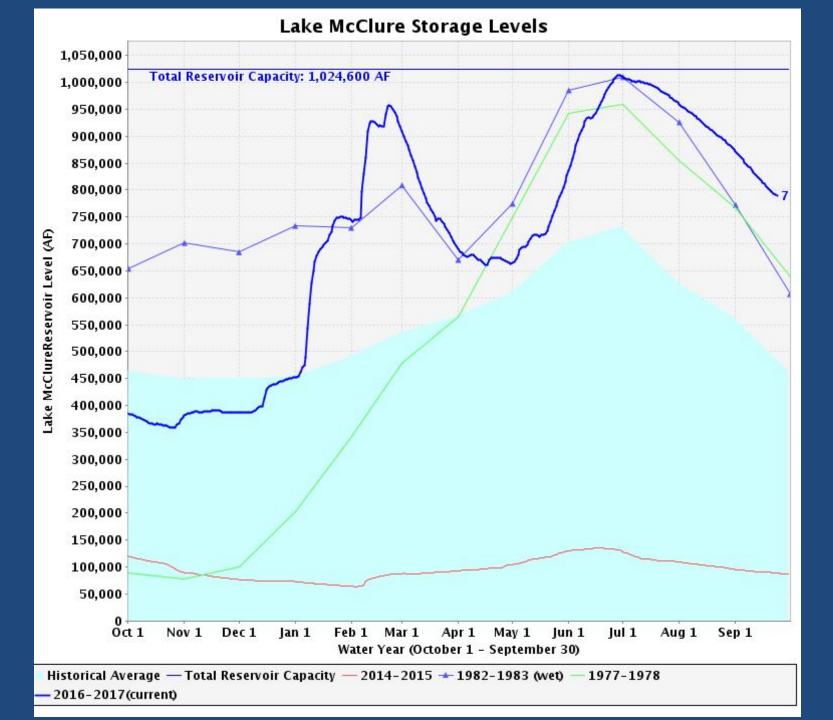


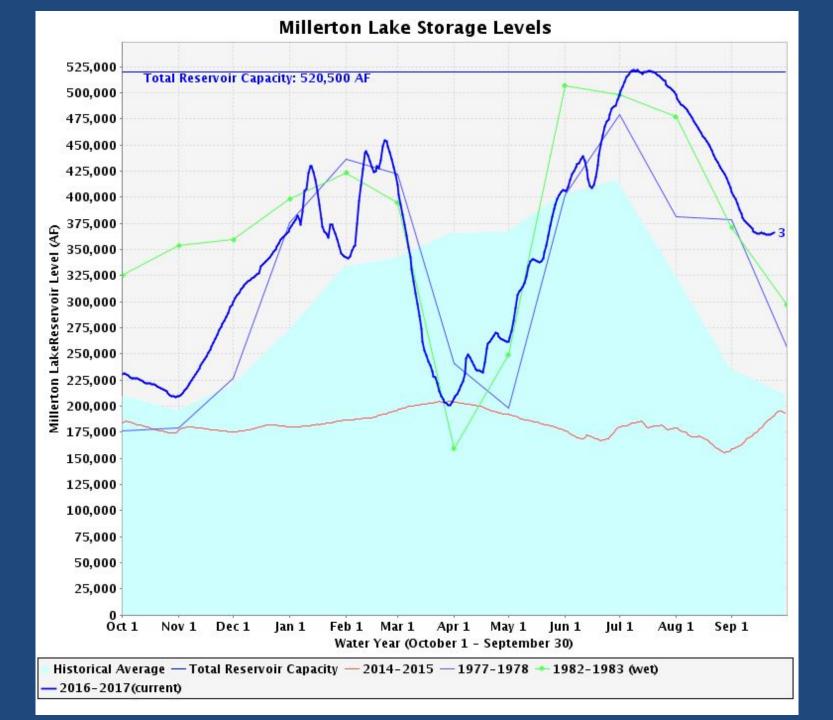


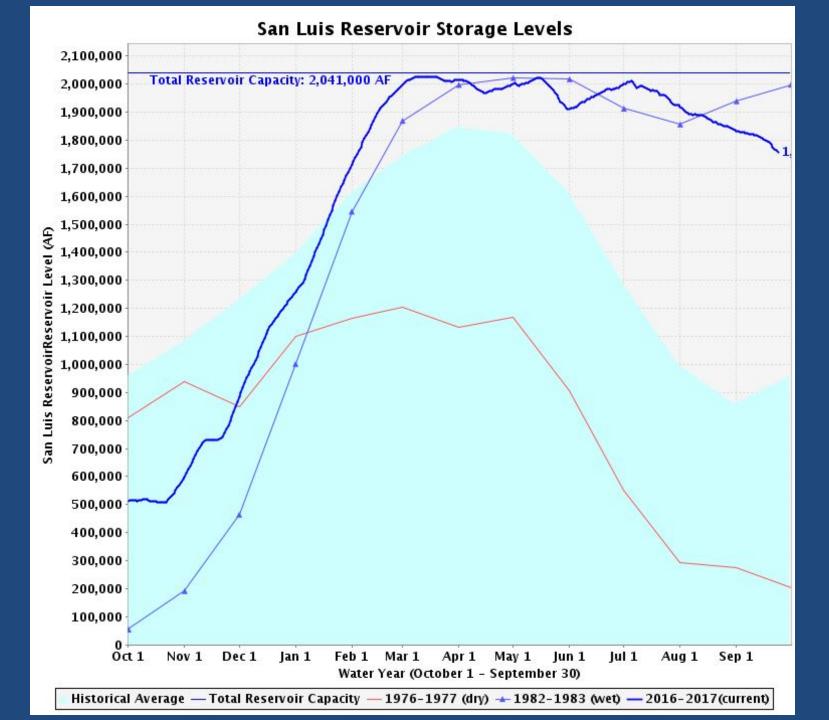












# 2017/2018 Winter Weather Outlook



### **2017 Predictions**

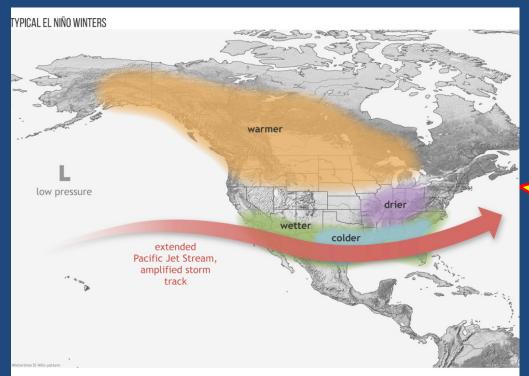
### ...According to CPC...

La Niña Watch Issued 9/14/2017

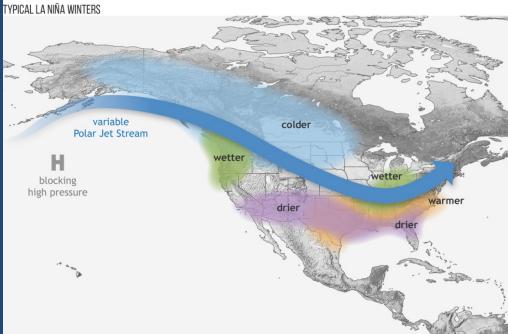
"There is an increasing chance (~55-60%) of La Niña during the Northern Hemisphere fall and winter 2017-18."

#### Highlights:

- Past La Niña and Neutral years have resulted in a wide distribution of outcomes from very dry to normal to very wet for Northern California
  - Meaning no strong signal anything goes



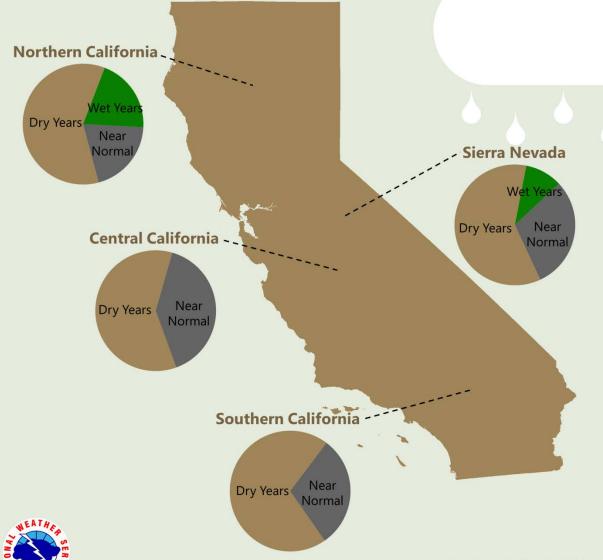
Storm Track
set up during
Neutral
Conditions is
variable



Our future water supply will be dependent upon the individual storms.

#### **Weak La Niña Conditions**

Past La Niña events have historically favored near normal or dry winter months, but past conditions do not guarantee a future outcome

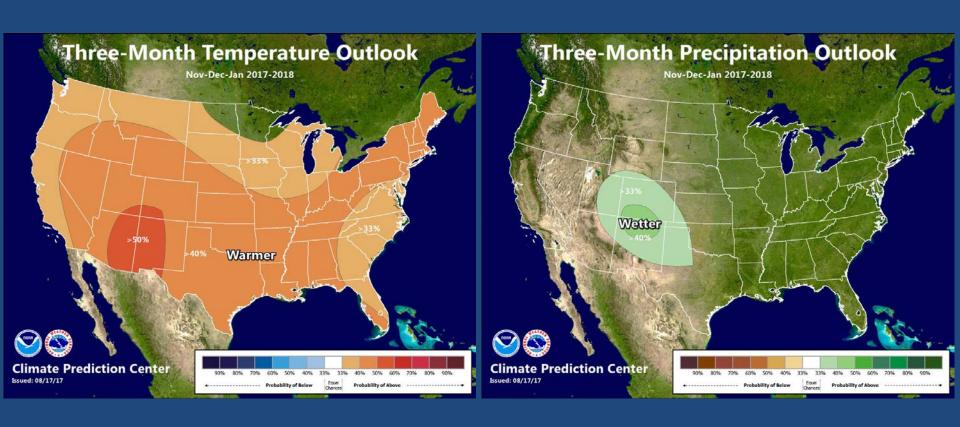


#### **ENSO Neutral Conditions**

When neither El Niño nor La Niña conditions are in place, everything is on the table for California. Past neutral years have yielded more dry winter seasons than normal or wet ones, but past conditions do not guarantee a future outcome

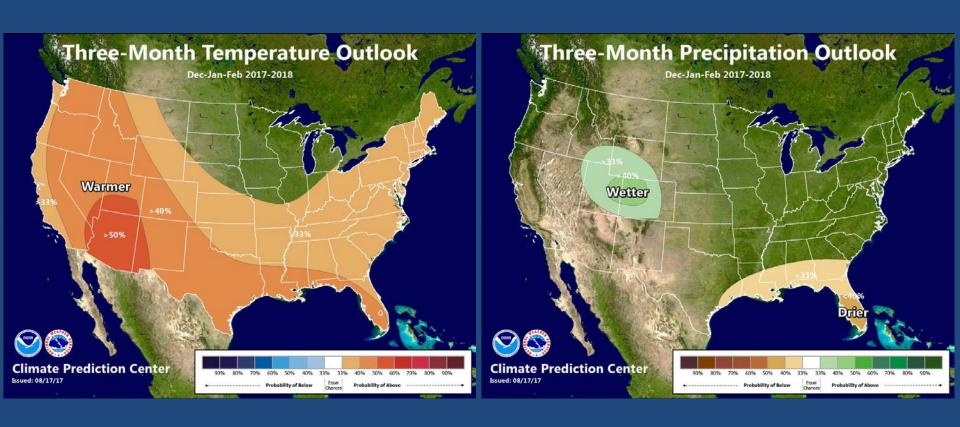


## 3 Month Outlooks Nov/Dec/Jan



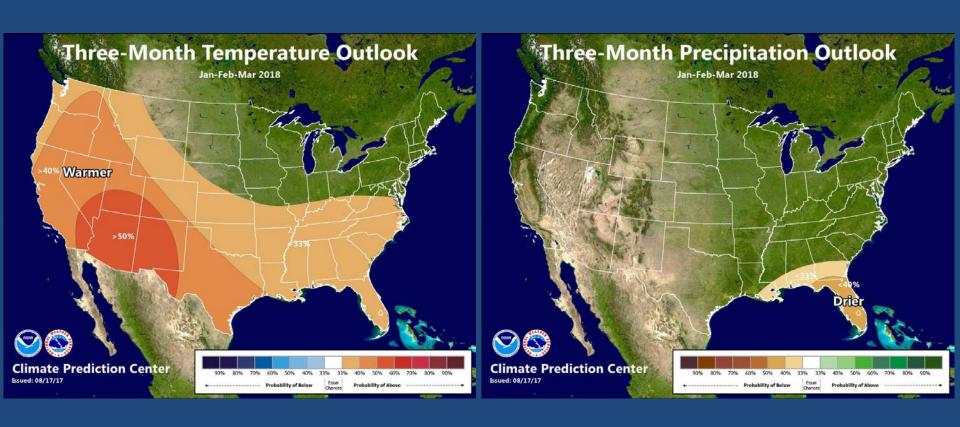
Unshaded areas = Equal Chances, No Strong Indicators

## 3 Month Outlooks Dec/Jan/Feb



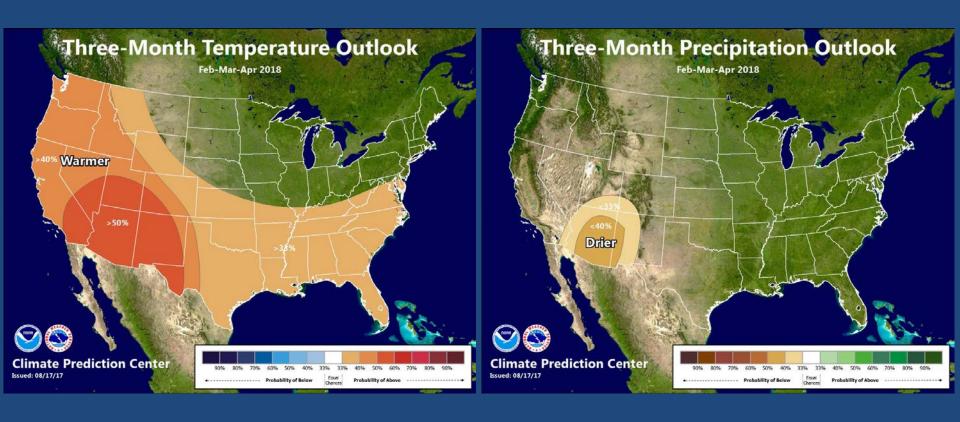
Unshaded areas = Equal Chances, No Strong Indicators

## 3 Month Outlooks Jan/Feb/Mar



Unshaded areas = Equal Chances, No Strong Indicators

## 3 Month Outlooks Feb/Mar/Apr



Unshaded areas = Equal Chances, No Strong Indicators

## Winter 2017-2018 Outlook Summary Reminders

- 8 previous of 10 years have been dry(2011 and 2017 exception)
- 2017 was good in the north and central California but not in the far southland
- Reservoirs are higher than any year since 2011
- Any large storm runoff could cause moderate flood control releases

### STAY TUNED.....

#### **Climate Prediction Center:**

Long range outlooks are updated every month

Update Schedule: Third Thursday of the month. Next update: September 21, 2017

www.cpc.ncep.noaa.gov/

#### NOAA El Nino Web Page

www.cpc.noaa.gov/products/precip/CWlink/MJO/enso.shtml

#### **CPC IRI ENSO Forecasts**

Update Schedule: Approximately first and third Thursday. Next update: September 21, 2017

http://iri.columbia.edu/our-expertise/climate/forecasts/enso/

#### **Local NWS Sacramento Links**

www.weather.gov/sacramento

www.facebook.com/nws.sacramento

Twitter.com/NWSSacramento

## **Questions & Discussion**



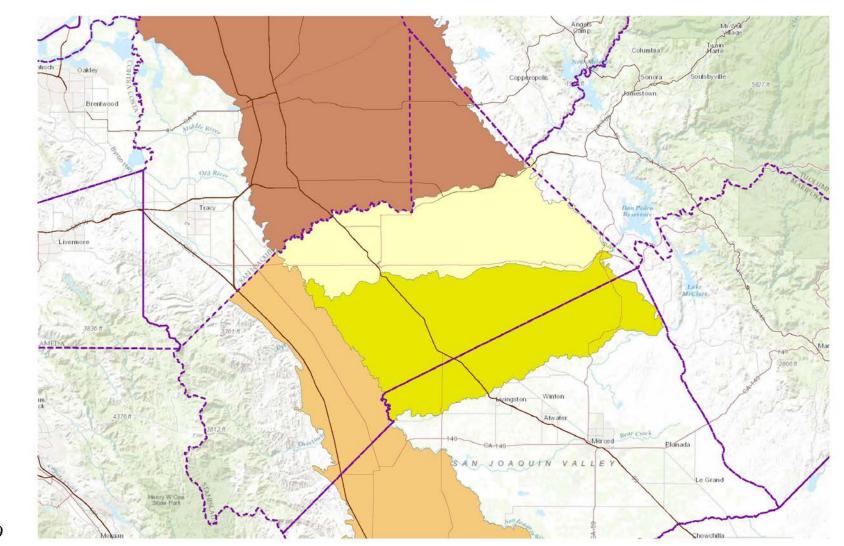
## Sustainable Groundwater Management Act

Regional Compliance Update

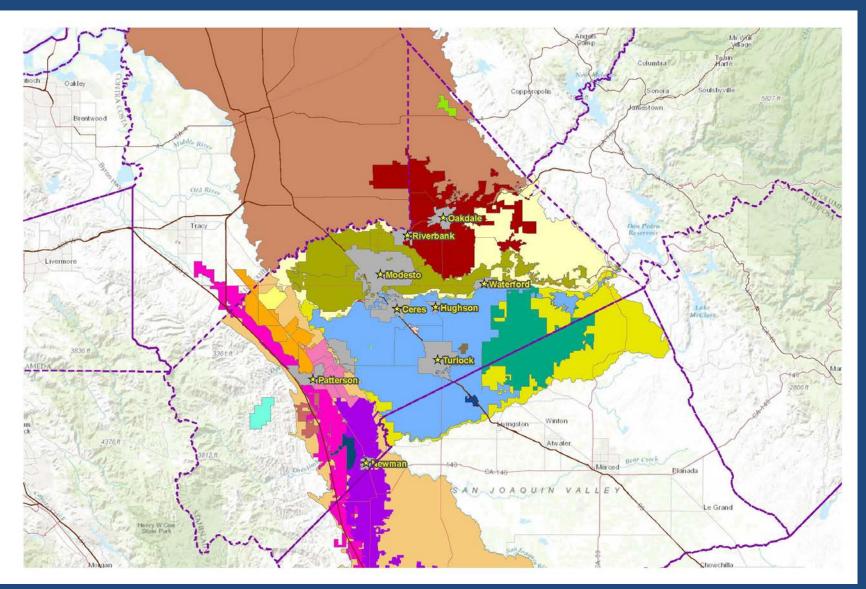
## Groundwater Sustainability Agency Formation

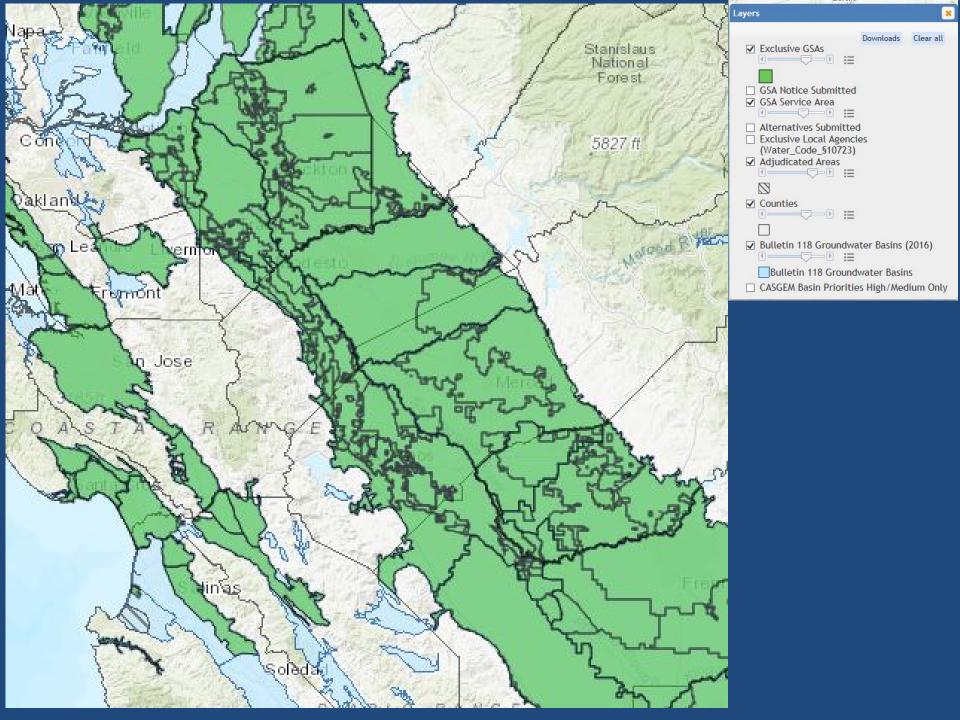
June 30, 2017 Deadline

# Stanislaus County Groundwater Basins

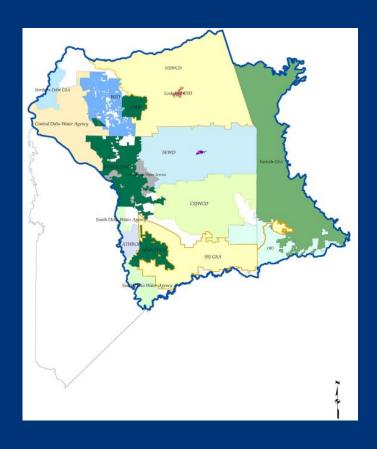


## **Stanislaus County Water Agencies**





## Eastern San Joaquin Groundwater Basin



## Eastern San Joaquin Subbasin GSAs

City of Lathrop

City of Lodi

City of Manteca

City of Stockton

Linden CWD

Stockton East WD

**Central Delta Water Agency** 

South Delta Water Agency

Central San Joaquin Water Conservation District

North San Joaquin Water Conservation District

Eastside San Joaquin GSA

Oakdale ID

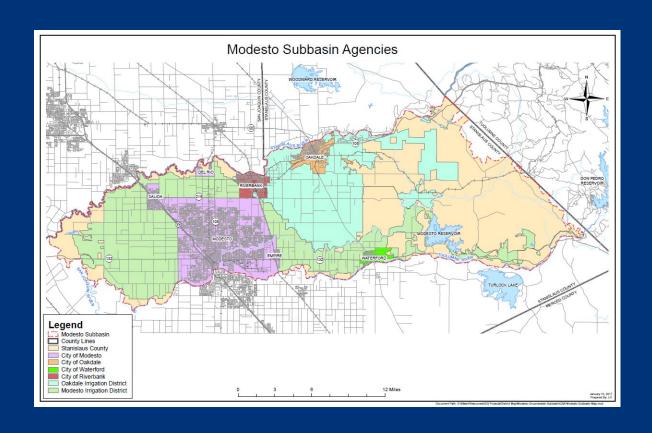
South San Joaquin ID

Woodbridge ID

Central Delta WD

Linden CWD

## Modesto Groundwater Basin



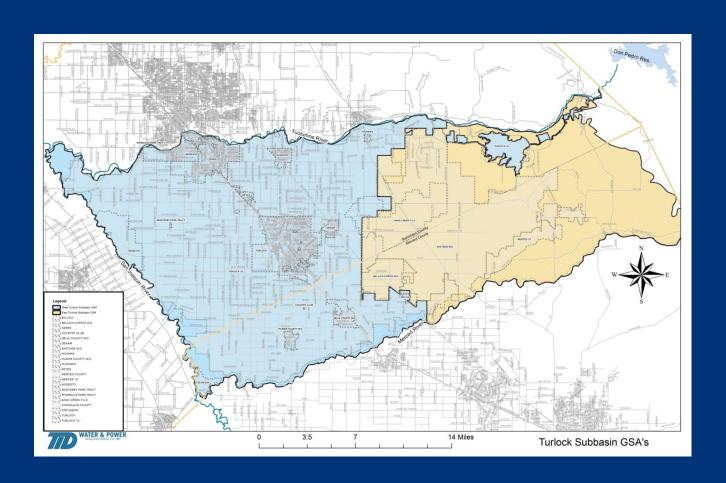
## Stanislaus & Tuolumne Rivers Groundwater Basin Association GSA

City of Modesto
City of Oakdale
City of Riverbank
City of Waterford

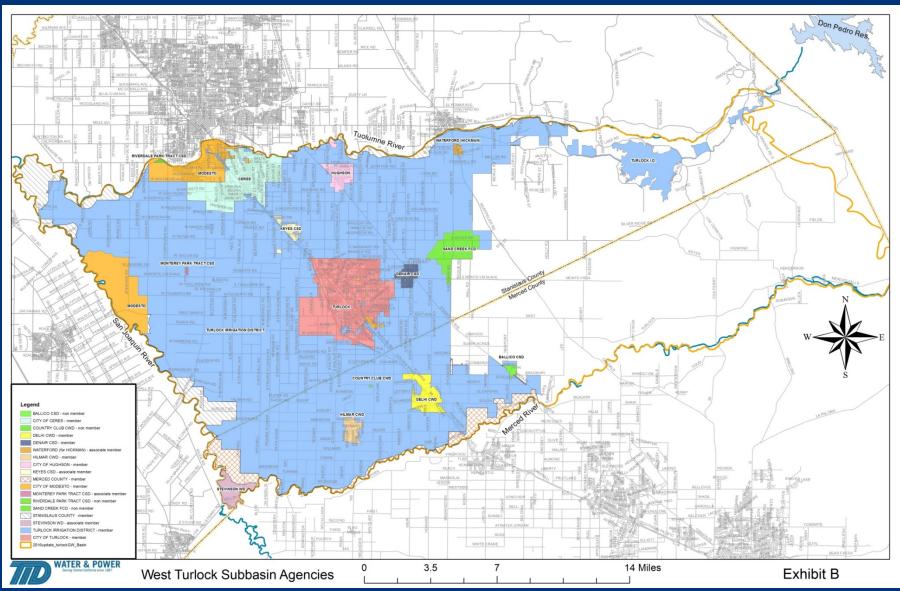
Oakdale ID
Modesto ID
Stanislaus County
Tuolumne County\*

<sup>\*</sup>Formed separate GSA

## Turlock Groundwater Basin



## West Turlock Subbasin GSA

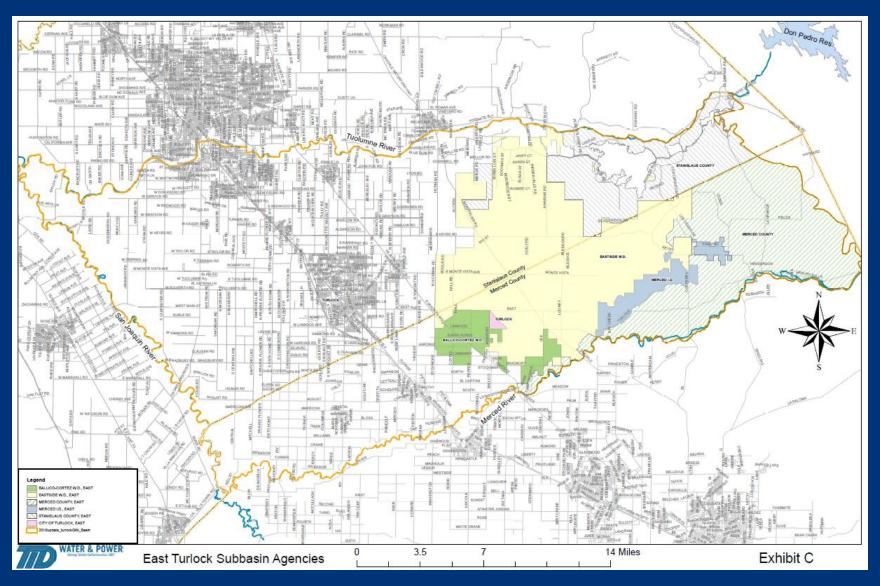


### West Turlock Subbasin GSA

City of Ceres
City of Hughson
City of Modesto
City of Turlock
Denair CSD

Associate Members: Keyes CSD Stevinson WD City of Waterford Turlock Irrigation District
Merced County
Stanislaus County
Delhi County Water District
Hilmar County Water District

## East Turlock Subbasin GSA



#### East Turlock Subbasin GSA

Eastside WD

**Ballico-Cortez WD** 

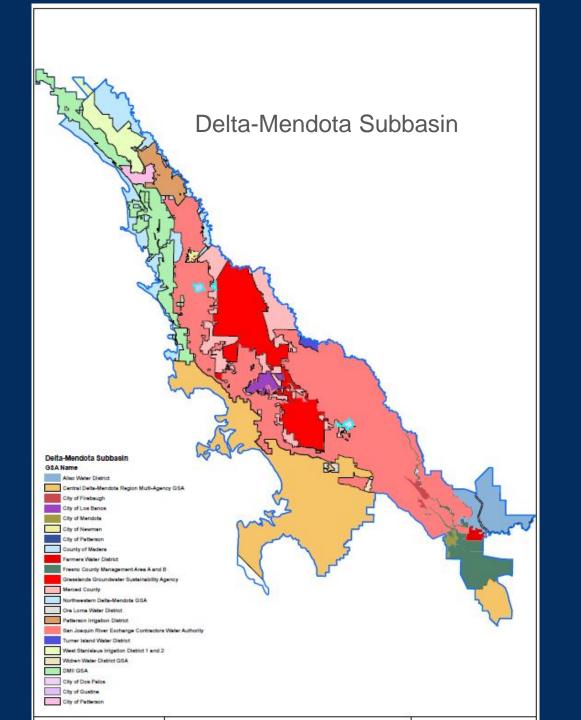
Merced Irrigation District

Merced County

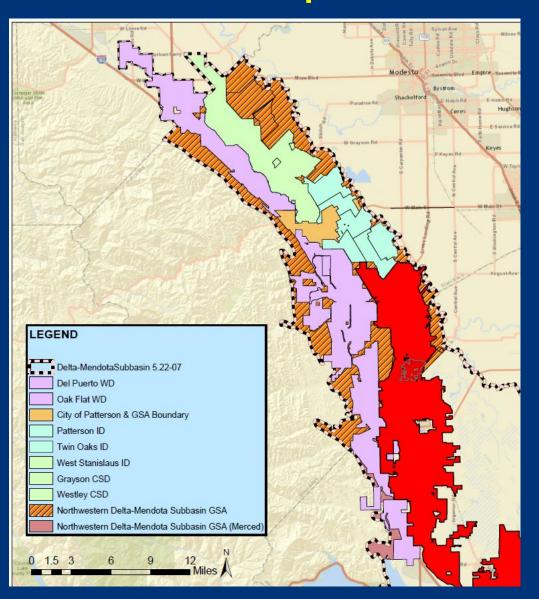
Stanislaus County

City of Turlock \*

\* Associate Member



## Delta-Mendota Subbasin –Northern Group



## Delta-Mendota Groundwater Basin – Northern Group GSAs

City of Patterson
Del Puerto WD
West Stanislaus ID
Patterson ID
Northwestern Delta-Mendota GSA

### Groundwater Sustainability Plans

50 Year Planning Horizon

Land Use & Water Demand Nexus

Basins in Critical Condition of Overdraft

- January 31, 2020
- 20 Year Implementation Period (January 2040)

High & Medium Priority Basins

- January 31, 2022
- 20 Year Implementation Period (January 2042)

#### Groundwater Sustainability Plans - Grant Funding

Basins in Critical Condition of Overdraft (\$1.5 M cap)

High & Medium Priority Basins (\$1 M cap)

Require 50% Local Cost Share

- Cost offsets may include Disadvantaged Communities
- Local relevant SGMA activities (since January 1, 2015)
  - Water Well Facilities Mapping & Groundwater Database (\$72k)
  - Groundwater Ordinance Hydrologic Services (\$50k)
    - Programmatic EIR does not qualify (tied to other State Grant)

## Proposition 1 Grant Funding

Program Solicitation Package (PSP) has been finalized

- One application (GSA applicant) per Basin
- Applications are currently being prepared with professional consultant support
- Filing window is open:
  - September 8<sup>th</sup> through November 13<sup>th</sup>
- Contract award expected early 2018



#### Groundwater Sustainability Plans - DWR Support

#### **GSP Preparation Guidance Documents**

- GSP Checklist
- Annotated GSP Outline (tied to regulations)

#### Best Management Practices (BMPs) Documents

- Monitoring Networks
- Data Gaps
- Hydrogeologic Model/Water Budget
- Climate Change
- Sustainable Management Criteria (Locally Defined)
  - Significant & Unreasonable
  - Triggers and Thresholds
  - Management Objectives

### Proposition 1 GSP Grant Funding

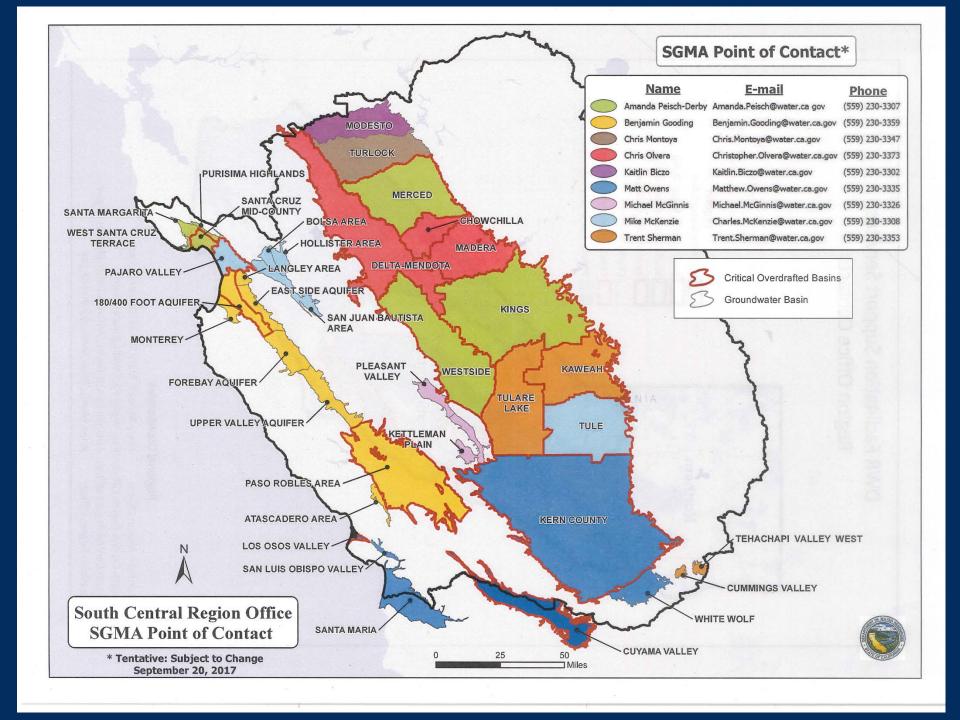
- GSP Preparation Guidance Documents:
   GSP checklist
   Annotated GSP outline
- Best Management Practices (BMPs) Documents
  - ✓ Monitoring Protocols, Standards & Sites
  - ✓ Monitoring Networks and Data Gaps
  - √ Modeling
  - Hydrogeologic Conceptual Model
  - √ Water Budget
  - √ Sustainable Management Criteria
  - √ Climate Change

#### Communication/Coordination

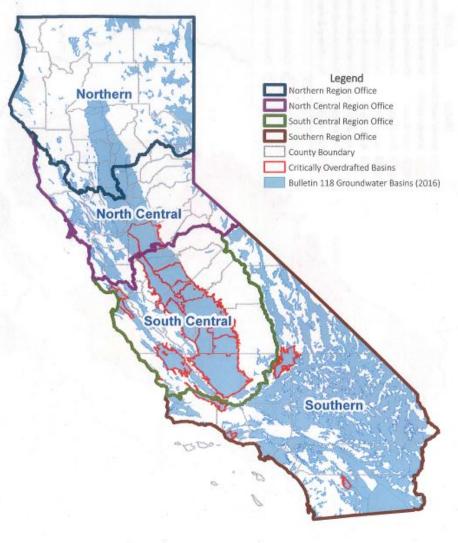
Regional Coordinators & Primary Points of Contact Stakeholder Communication and Engagement

#### **Technical Assistance**

- Well Completion Report maps will be available in October
- Field activities assistance:
  - GW level measurement training
  - Well video logging
  - Geophysical logging
  - Monitoring well design and installation
- Tools and models "Fact Sheet" in development
- DWR will update State datasets with information provided by GSAs, including use of such data in CA Water Plan updates



#### DWR Facilitation Support Services Region Office Contacts



#### Regional Coordinators

Northern Region Office: Mary Randall; Mary.Randall@water.ca.gov North Central Region Office: Paul Wells; Paul.Wells@water.ca.gov

South Central Region Office: Amanda Peisch-Derby; Amanda.Peisch@water.ca.gov

Southern Region Office: Brian Moniz; Brian. Moniz@water.ca.gov

## **GSP** Review and Approval

DWR emphasized that all GSPs must demonstrate that all required elements have been addressed

DO NOT spend all time /money concentrating on any single element (e.g., groundwater model) at the expense of other planning elements

Concept of "substantial compliance" will be used for initial submittals, recognizing 20 year implementation period and 5 year GSP updates will occur

## **Proposition 1 GSP Grant Funding**

http://www.water.ca.gov/groundwater/sgm/data\_tools\_reports.cfm

# REGIONAL COORDINATION IS

# THE KEY TO SUCCESS FOR

ALL !!