

Drought & El Nino Update

Napa County Flood Control and Water Conservation
District

WICC Meeting

November 19, 2015

Today's Topics

- How are we doing?
- How does the future look?

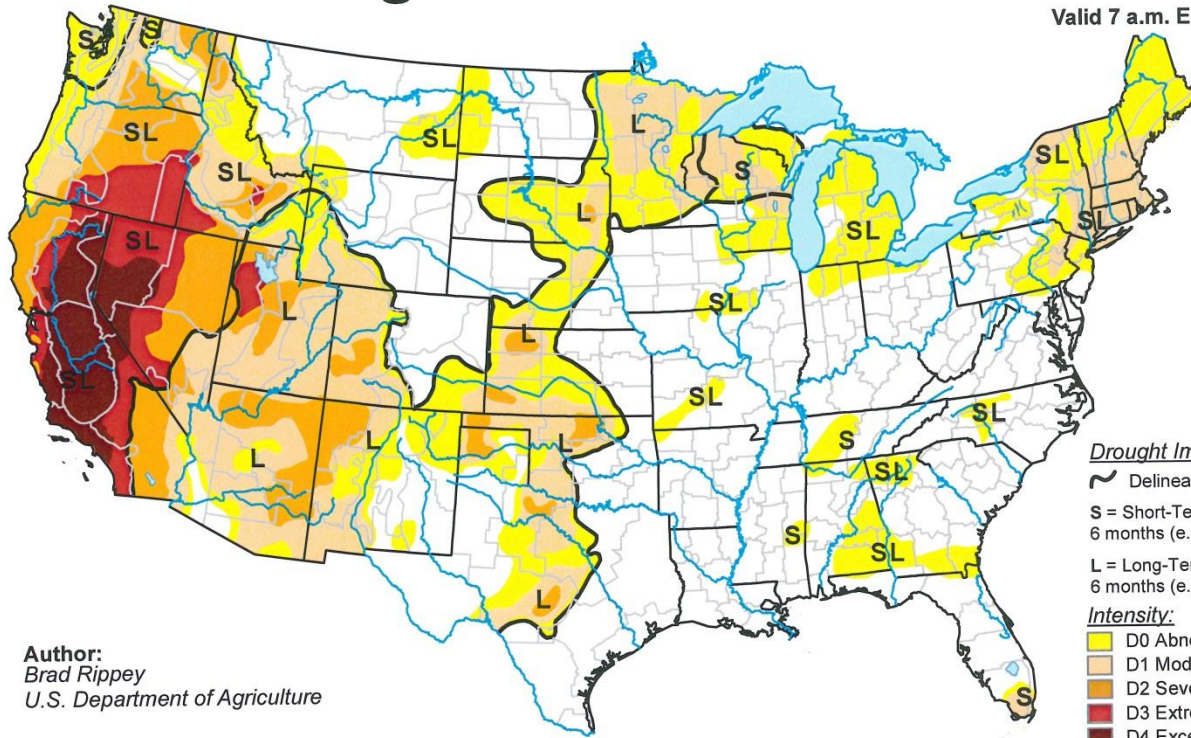
May's Drought Map

U.S. Drought Monitor

May 19, 2015

(Released Thursday, May. 21, 2015)

Valid 7 a.m. EST



Author:
Brad Rippey
U.S. Department of Agriculture

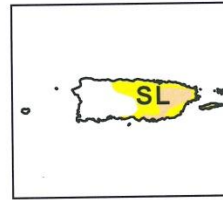
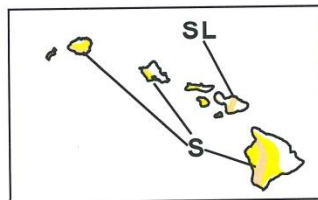
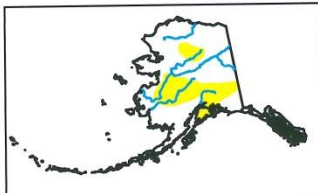
Drought Impact Types:

- ~ Delineates dominant impacts
- S = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)
- L = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)

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.

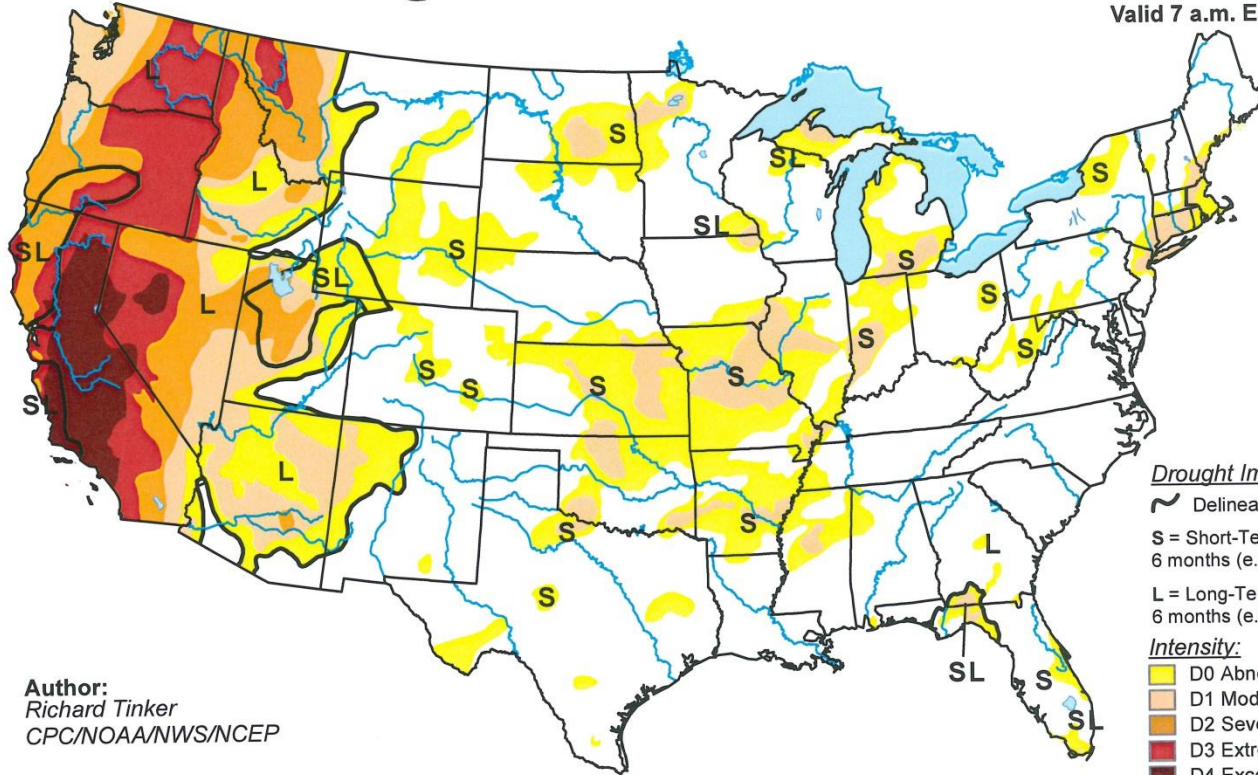


<http://droughtmonitor.unl.edu/>

Current Drought Map

U.S. Drought Monitor

November 10, 2015
 (Released Thursday, Nov. 12, 2015)
 Valid 7 a.m. EST



Author:
 Richard Tinker
 CPC/NOAA/NWS/NCEP

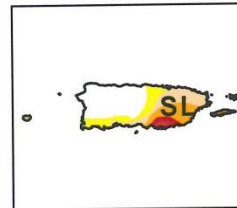
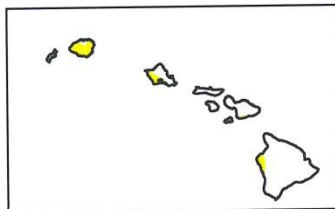
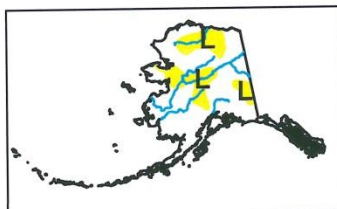
Drought Impact Types:

- ~ Delineates dominant impacts
- S = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)
- L = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)

Intensity:

- Yellow: D0 Abnormally Dry
- Light Orange: D1 Moderate Drought
- Orange: D2 Severe Drought
- Dark Orange: D3 Extreme Drought
- Dark Red: D4 Exceptional Drought

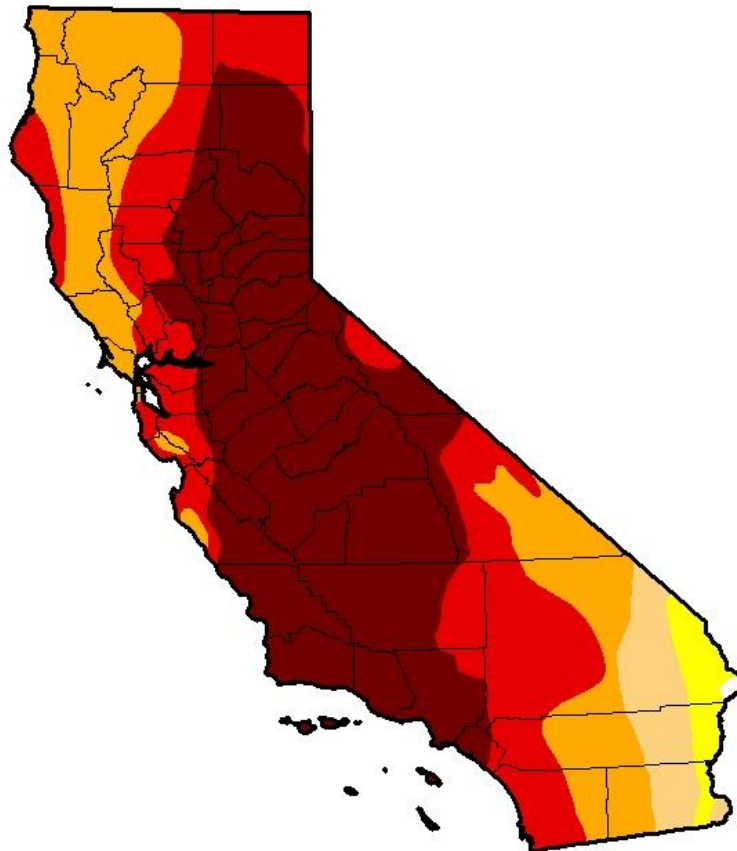
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<http://droughtmonitor.unl.edu/>

California Drought Map

U.S. Drought Monitor California



November 10, 2015

(Released Thursday, Nov. 12, 2015)

Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	0.14	99.86	97.33	92.27	70.55	44.84
Last Week <i>11/3/2015</i>	0.14	99.86	97.33	92.27	70.55	44.84
3 Months Ago <i>8/11/2015</i>	0.14	99.86	97.35	92.36	71.08	46.00
Start of Calendar Year <i>12/3/02/014</i>	0.00	100.00	98.12	94.34	77.94	32.21
Start of Water Year <i>9/29/2015</i>	0.14	99.86	97.33	92.36	71.08	46.00
One Year Ago <i>11/11/2014</i>	0.00	100.00	99.72	94.42	79.69	55.08

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:

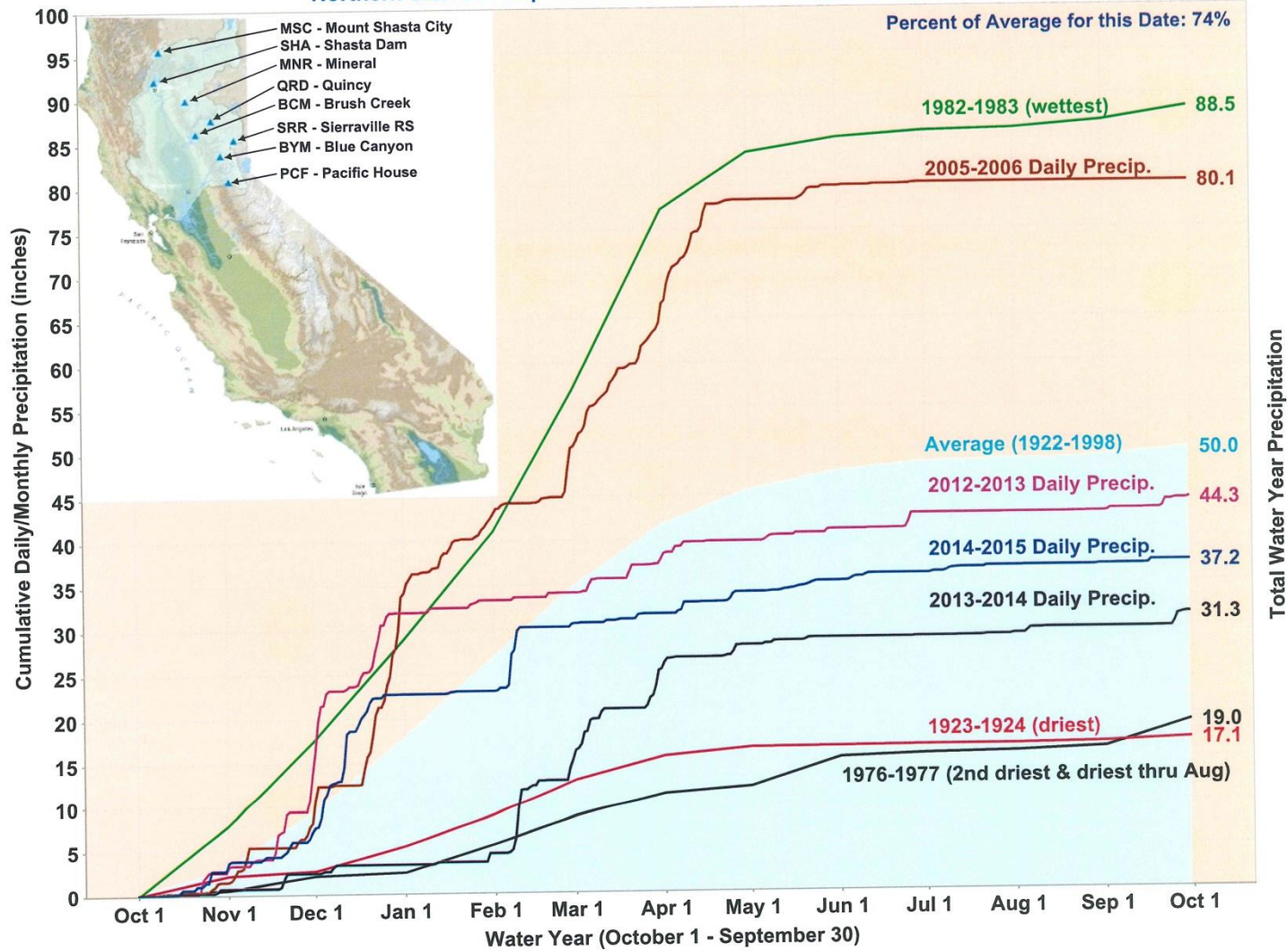
Richard Tinker
CPC/NOAA/NWS/NCEP



<http://droughtmonitor.unl.edu/>

State Water Project

Northern Sierra Precipitation: 8-Station Index, September 30, 2015

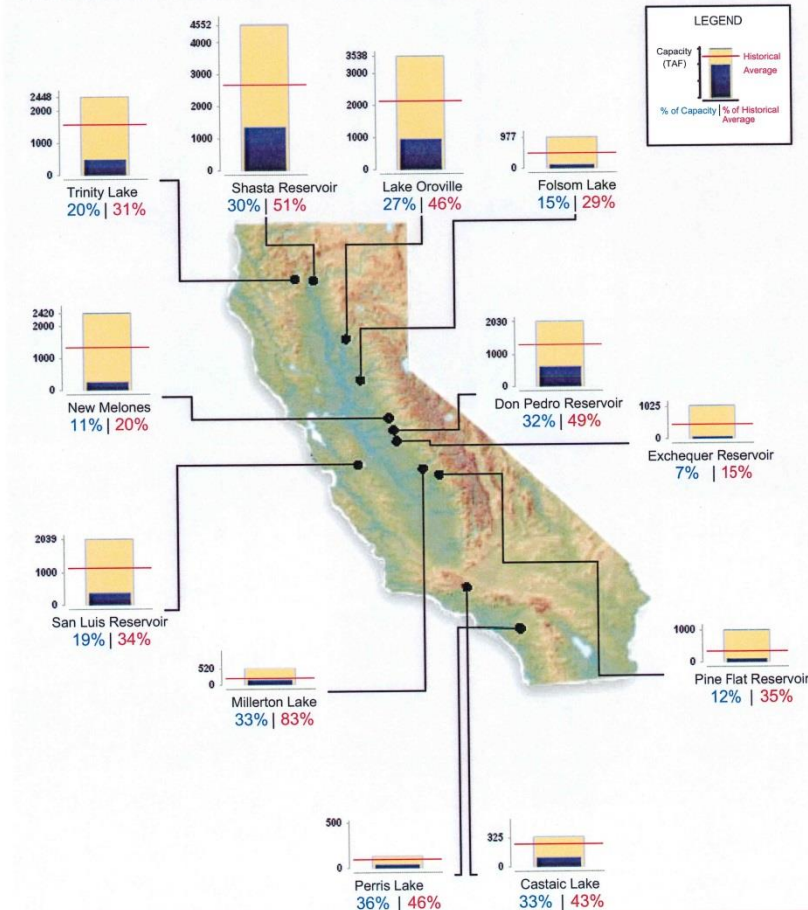


State Water Project



Ending At Midnight - November 11, 2015

CURRENT RESERVOIR CONDITIONS



Graph Updated 11/12/2015 09:45 AM

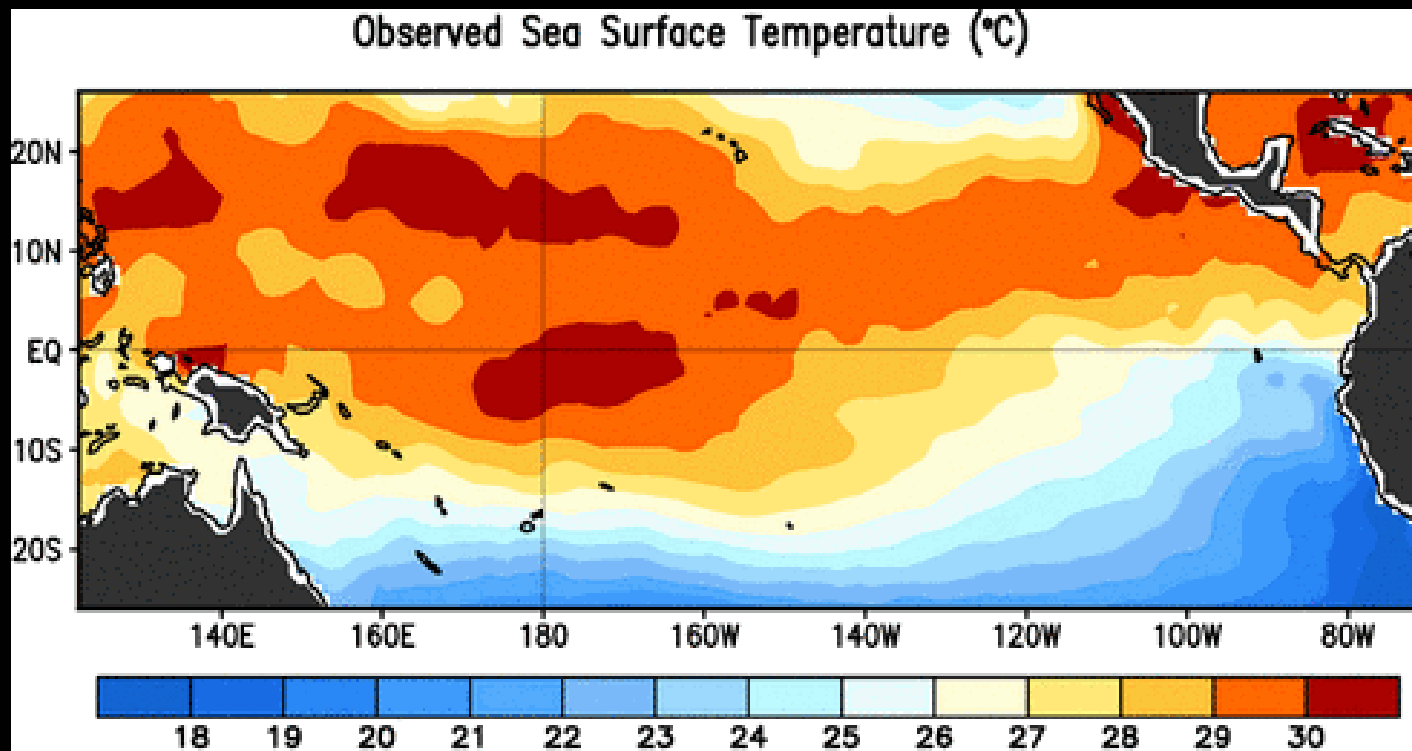
Local Supply Outlook

- We'll make it through this year
- Some Market Water was available
- Local Reservoirs are still available
- Conservation has been Effective

El Nino

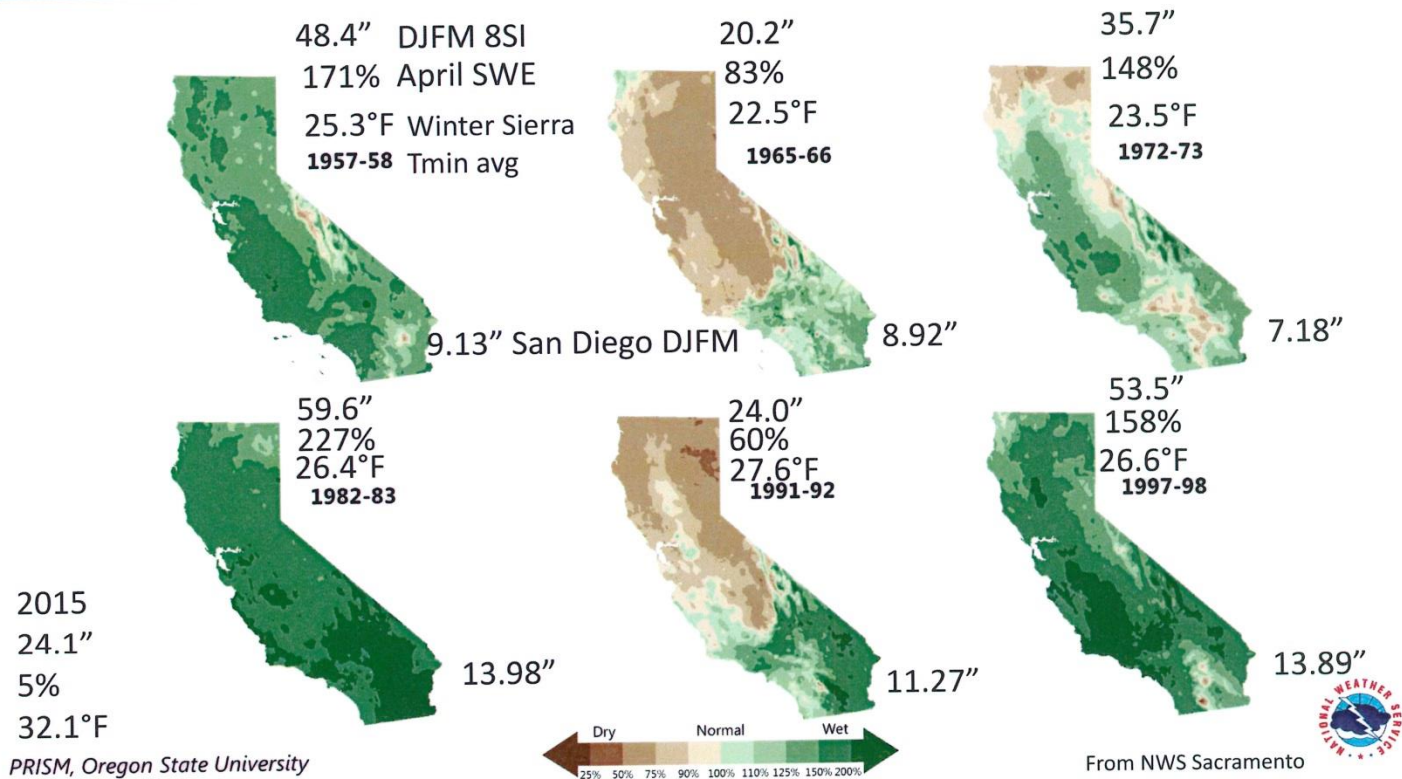
- Large-scale ocean-atmospheric climate interaction linked to a periodic warming in sea surface water temperatures across the central and east-central Equatorial Pacific Ocean
- In the past, **strong** El Nino's have been linked to increased rainfall in California

El Nino

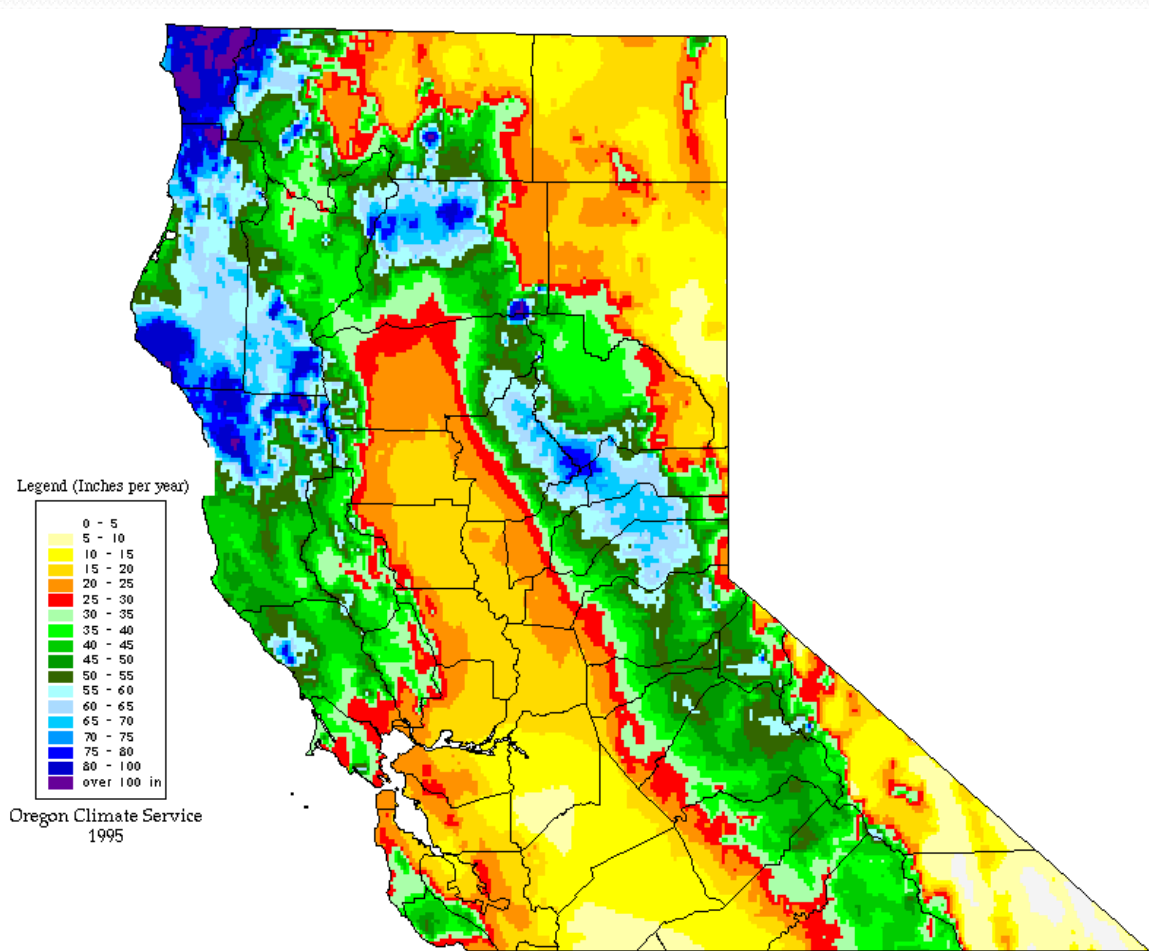


El Nino

Historical Strong El Nino Outcomes



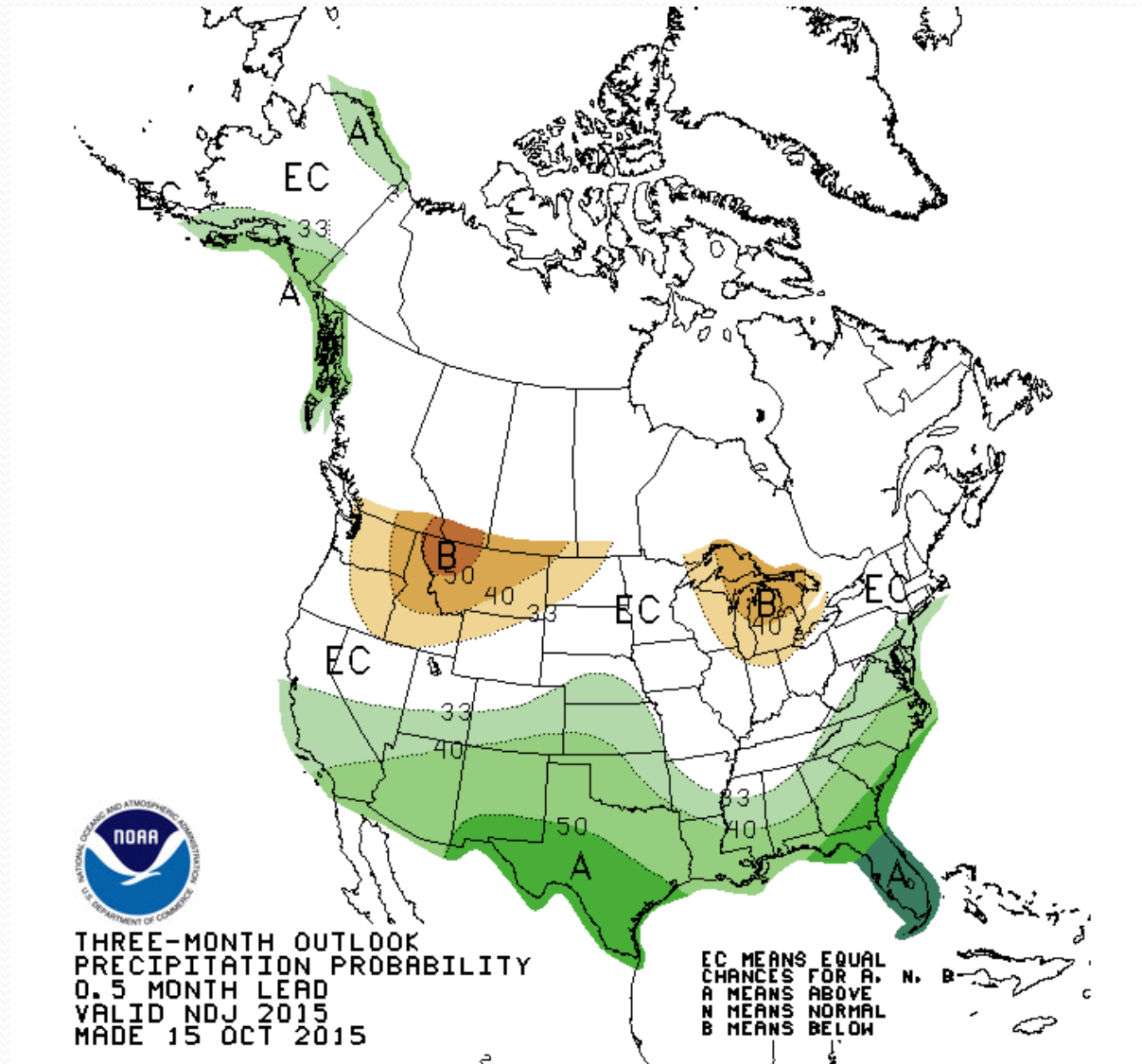
Napa County Averages Between 20" and 50"



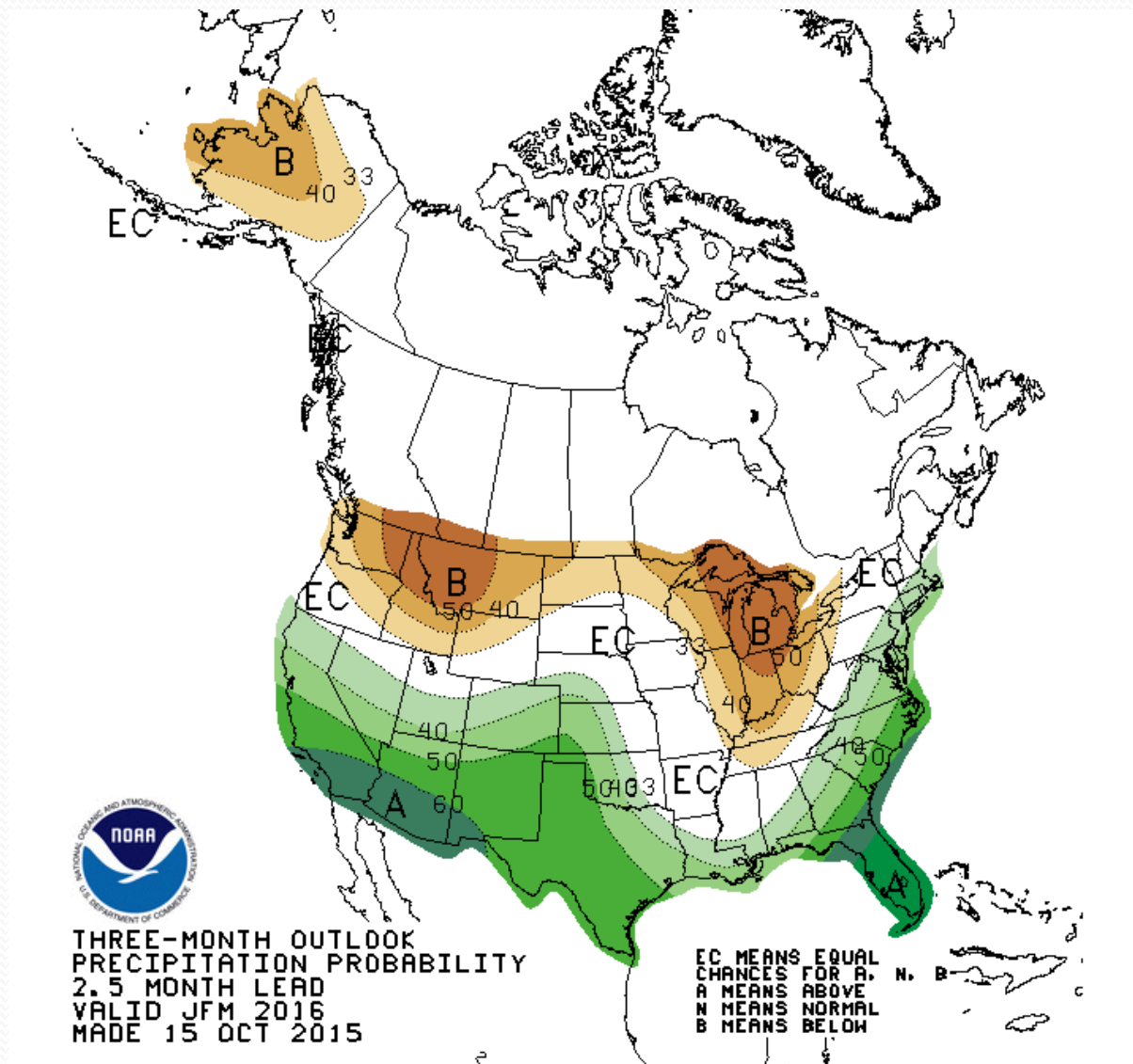
Annual Average Precipitation (Inches),
Northern California

Period: 1961-1990

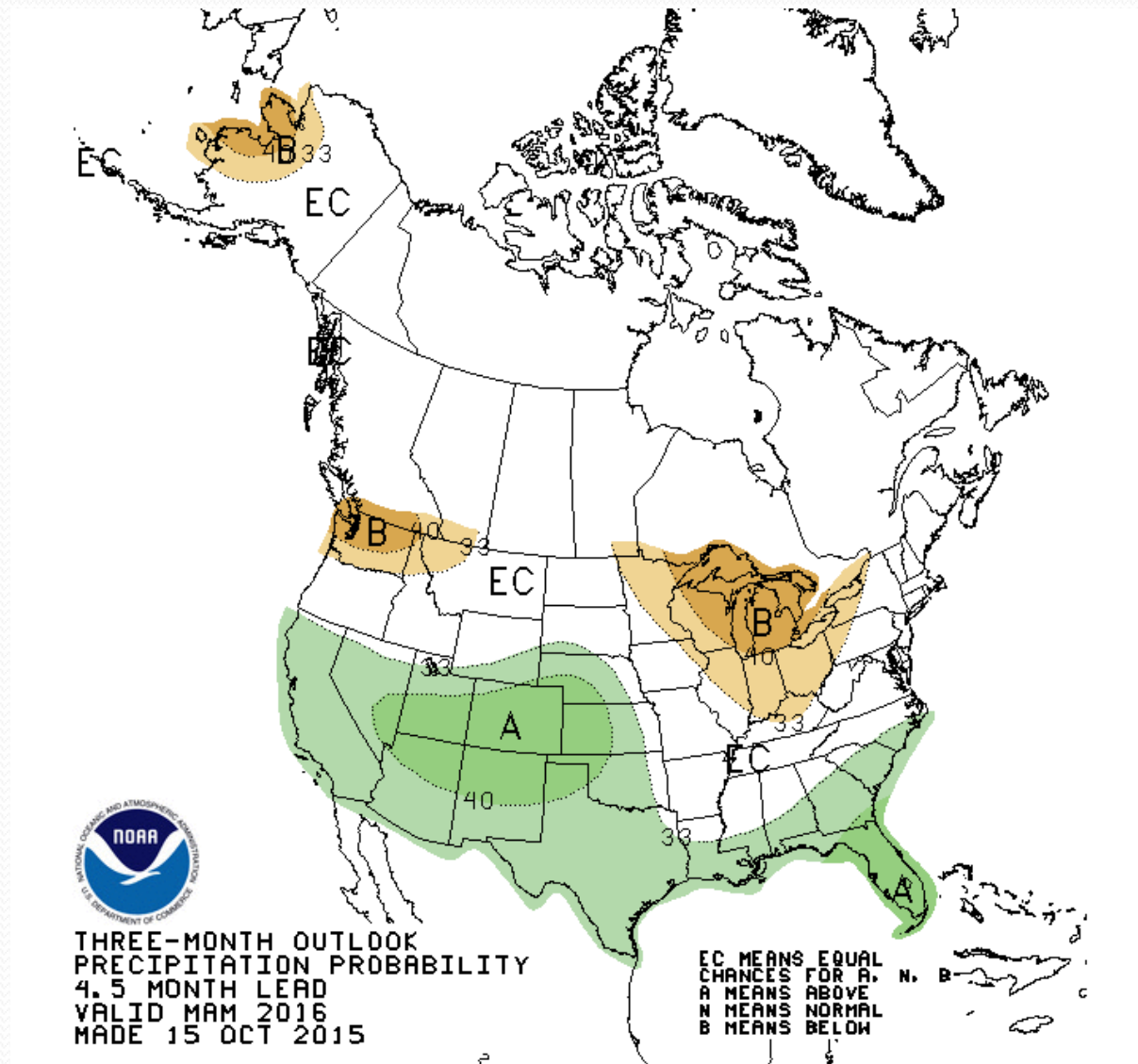
Rainfall Forecast Nov – Dec - Jan



Rainfall Forecast Jan – Feb - Mar



Rainfall Forecast Mar -Apr - May



Questions?