California rice: 2015

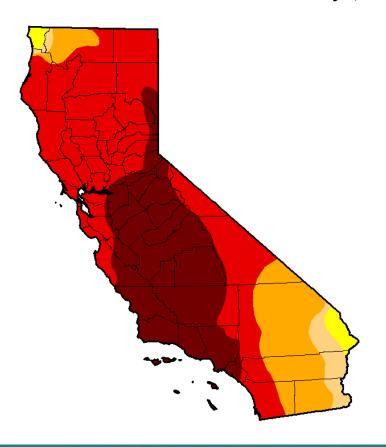


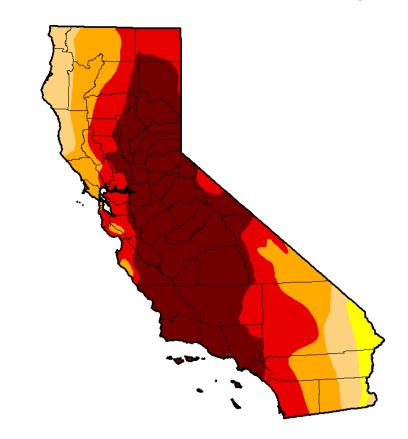
Drought Conditions: not much change



January 6, 2015

January 5, 2016



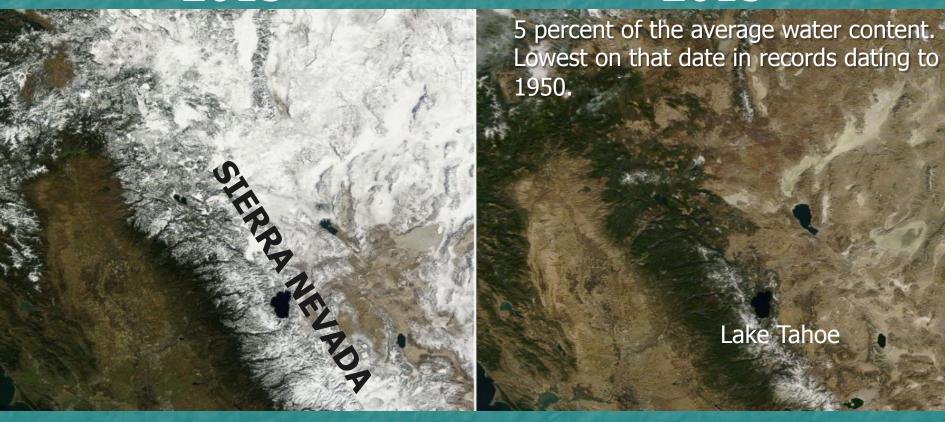


Driest Years in California

STATEWIDE				
YEAR	PRECIPITATION (IN)			
1924	9.23			
1977	11.81			
2014	12.08			
2015	13.21			
1898	13.35			
1920	13.43			

Snow pack: April 1

2013 2015



The winter average minimum temperature for the Sierra Nevada region was 32.1 degrees Fahrenheit.

25% mandatory water use reduction

USBR Central Valley Project record low deliveries: zero project water to south-of-Delta agricultural contractors

SWP provided only 20 percent of its urban and agricultural contractors' requested amounts.



Water Transfers: 2015

GCID growers idled a total of 17,727 acres of cropland

Transferred: 58,019 acre-feet of water

Tehama-Colusa Canal Authority (3,375 AF)

San Luis & Delta Mendota Water Authority (54,644 AF).

Rice 17,118.36

Sudan 366.48

Corn 57.49

Alfalfa 36.2

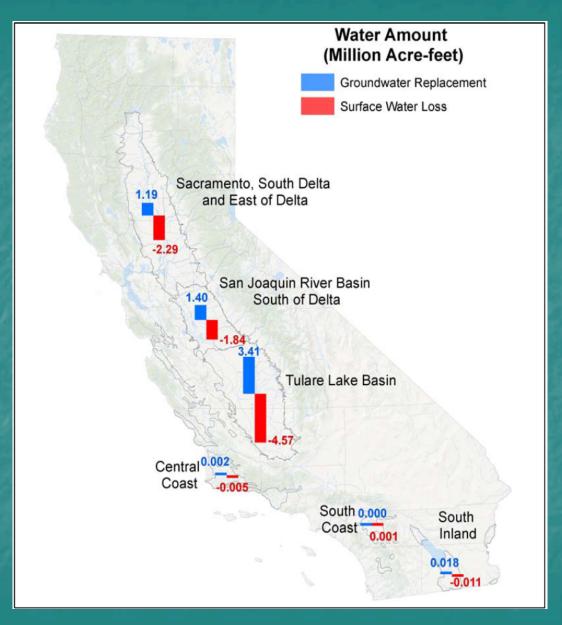
Vine Seed 17.90

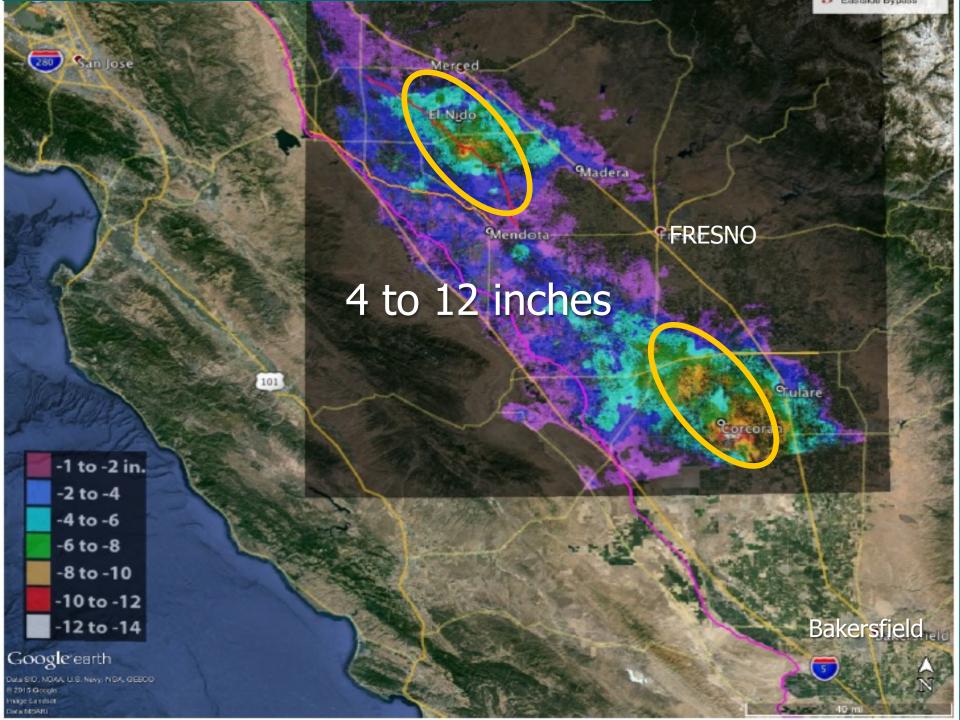
Tomato 130.50

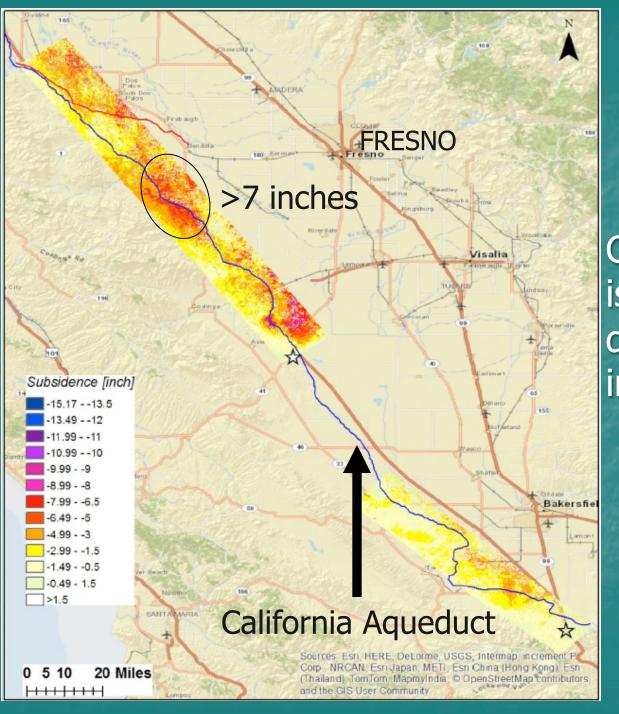
9,005 AF of water to the Tehama-Colusa Canal Authority through a groundwater substitution program.

Greater ground water pumping

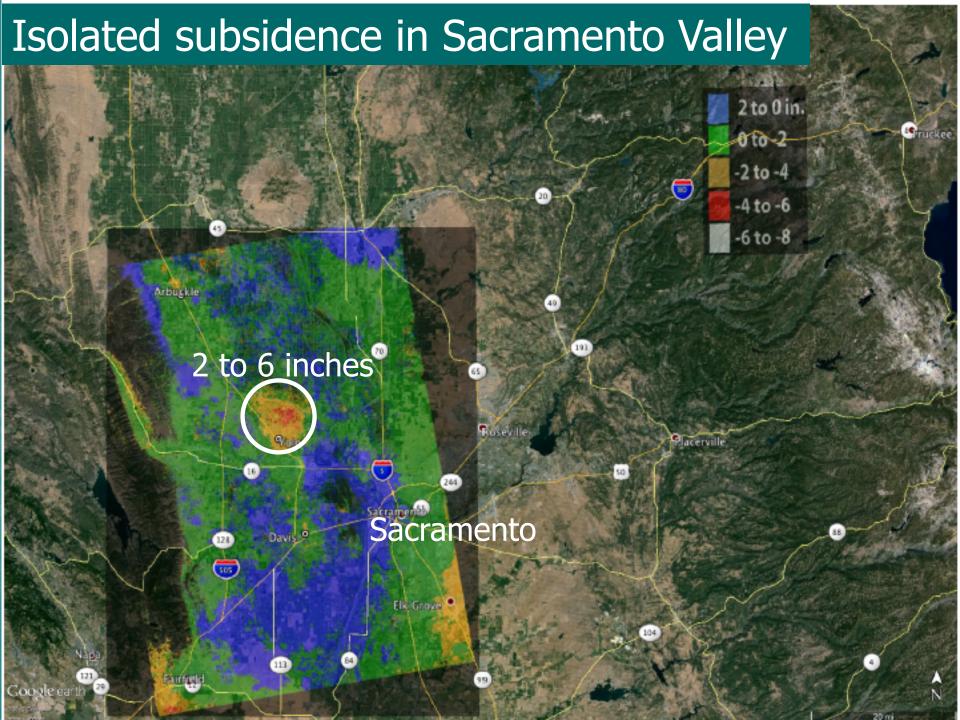
- 8.7 million AF shortage
- 6 million AF from ground water (70% of shortage)
- 540,000 fallowed acres

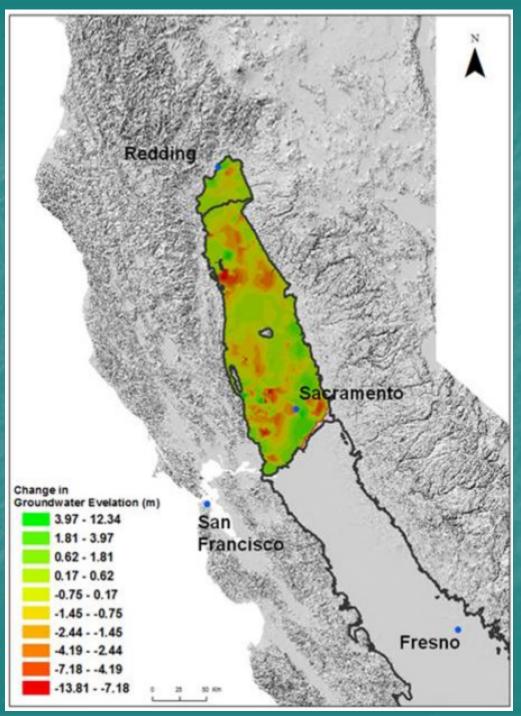






Ground subsidence is threatening water distribution infrastructure

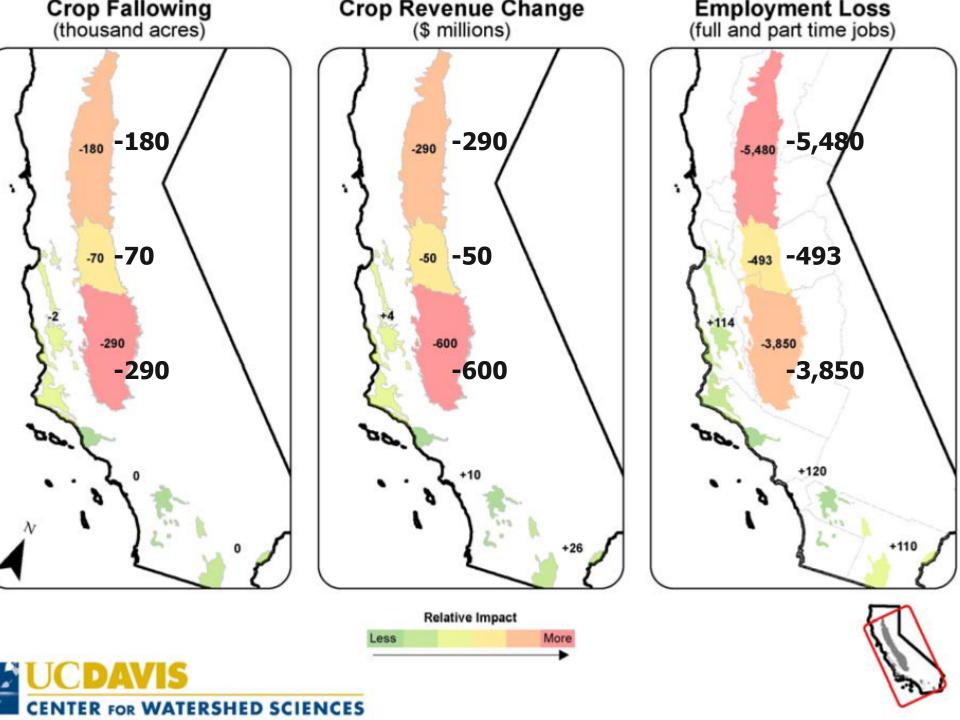




Ground water levels dropped in Sacramento Valley

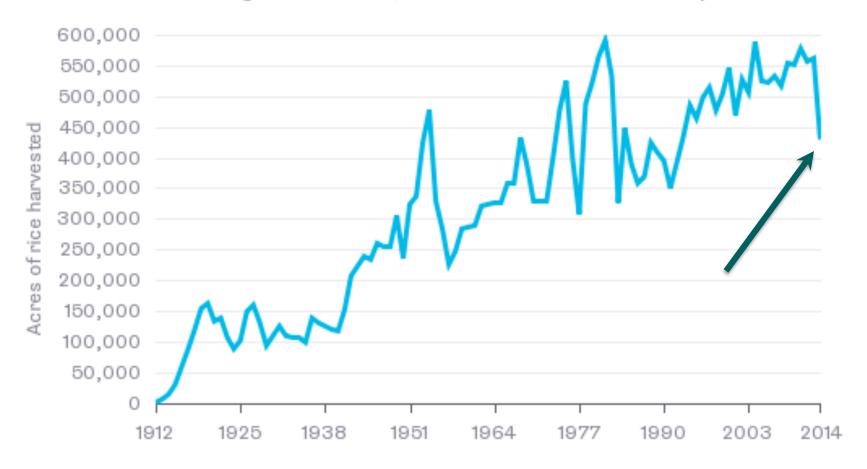
Up to 13 feet in some areas

Source: USGS



California's Rice Century

There have been highs and lows, but the overall trend is up



Source: U.S. Department of Agriculture

2015 Summary

- 1. Dry spring; early planting
- 2. Planted acreage dominated by medium grain
 - M205, M206, M105
- 3. Water allotments: 50 to 75% depending on district
- 4. Water management directives
 - No spillage from field; boxes sealed
 - Water delivery terminated 7 − 14 days prior to drain
- 5. Minimal disease pressure
- 6. Substantial army worm pressure in north valley

Degree Day Accumulation 2012 – 2015 Growing Seasons

	2015	2014	2013	2012
May	328	436	364	350
June	609	544	541	460
July	637	655	647	570
Aug	567	588	549	604
Sept	481	492	443	490
Total	2622	2715	2544	2474

California Production: 2013 -2105

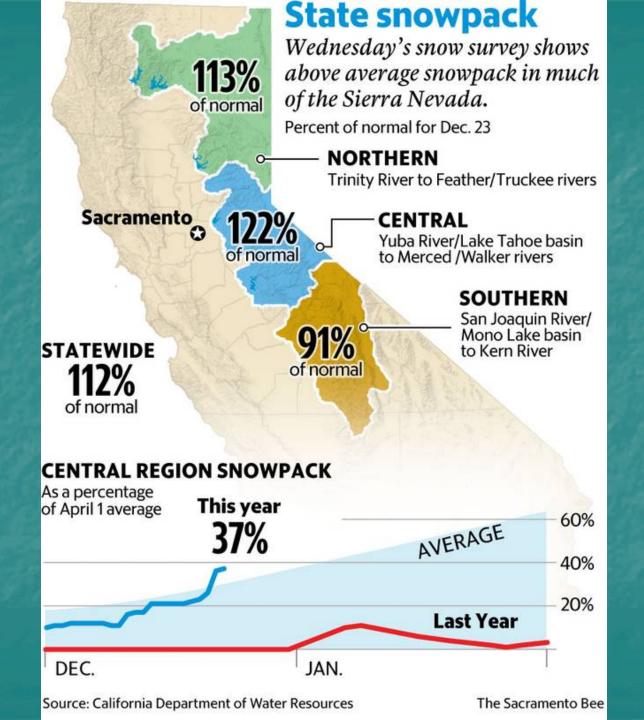
Year	Acres (X 1000)	Ave yield lb/acre	Total production (million cwt)
2013	560	8400	46.7
2014	428	8500	36.4
2015	423	8890	37.4

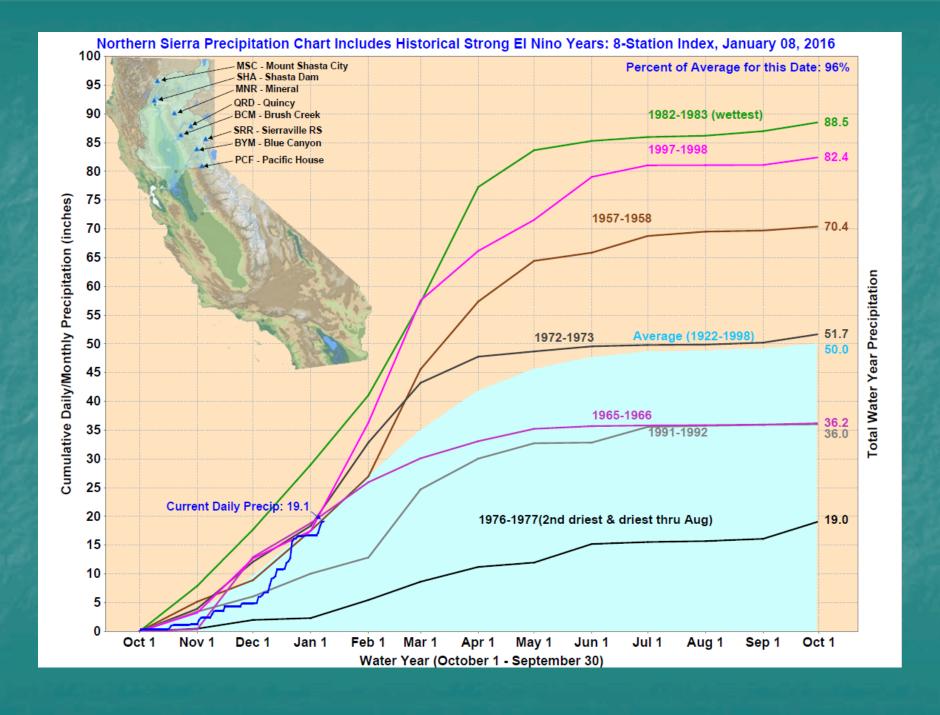
Looking Forward— 2016 crop

Further reduction in planted acres unlikely

 Water rights and/or settlement contracts agreements strong

Expansion of planted acres depends on winter rains

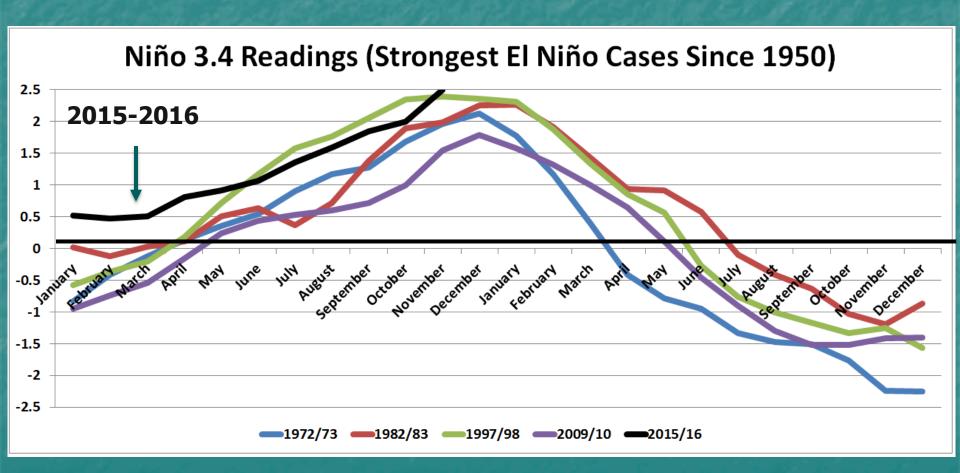




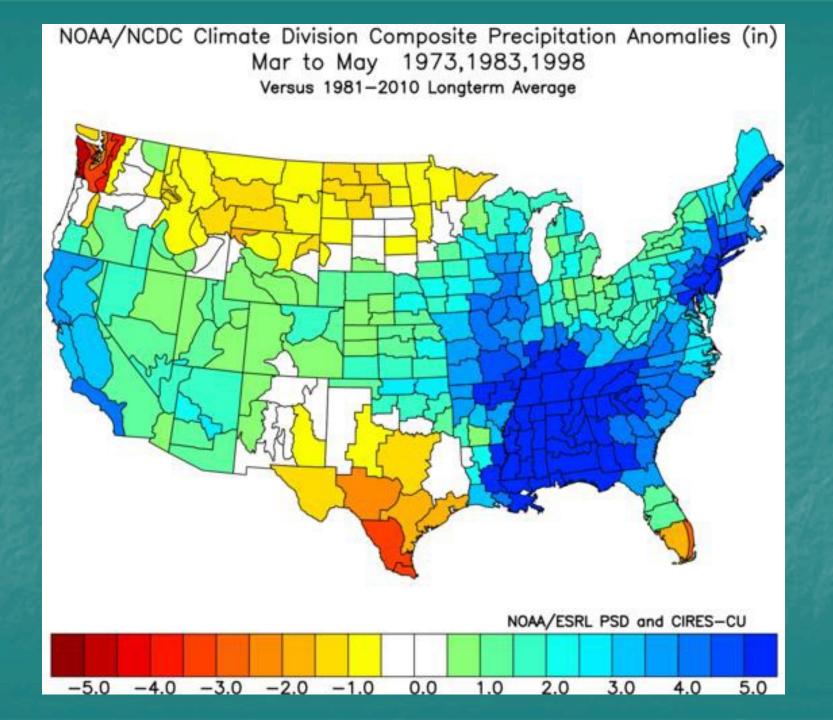
Using only the latest technology...

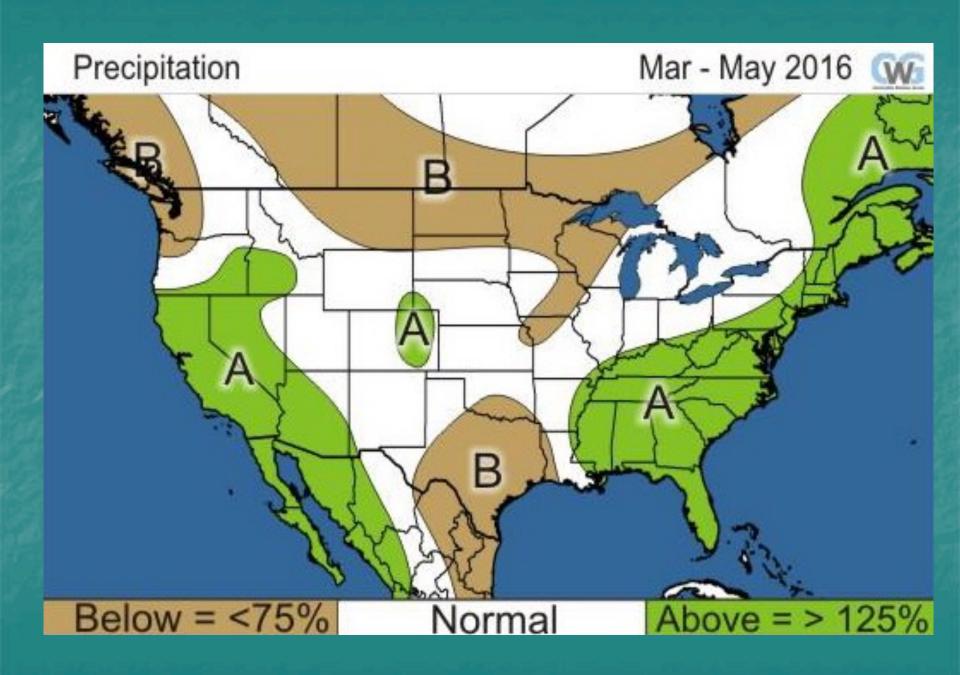


El Niño's often lead to La Niña's



Source: NOAA





M-209, new variety (limited seed avail. in 2016)

Grain type: Early maturing, semi-dwarf, medium grain

Yield: Superior to M206, M205, M202

Harvest moisture: >18%; loss in milling quality <18%.

Marketing: superior visual, cook, and taste quality

compared to current medium grains

Variety	2010 – 2015 (38 field tests)	% improvement
M209	9680	
M206	9480	2.3
M205	9250	5.5
M202	8820	10.2

New CIMIS weather station

Added to the CIMIS network in 2015

Station 244 located in rice growing area west of Gridley

Check it out at: http://www.cimis.water.ca.gov/



Questions & Comments?

