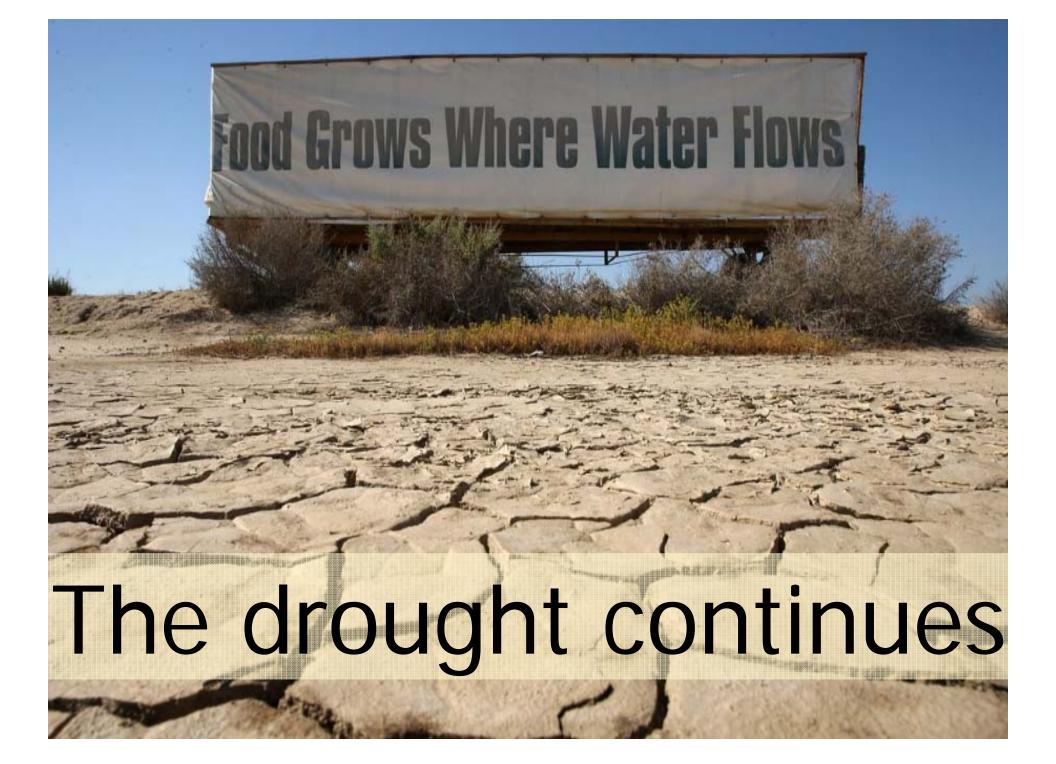
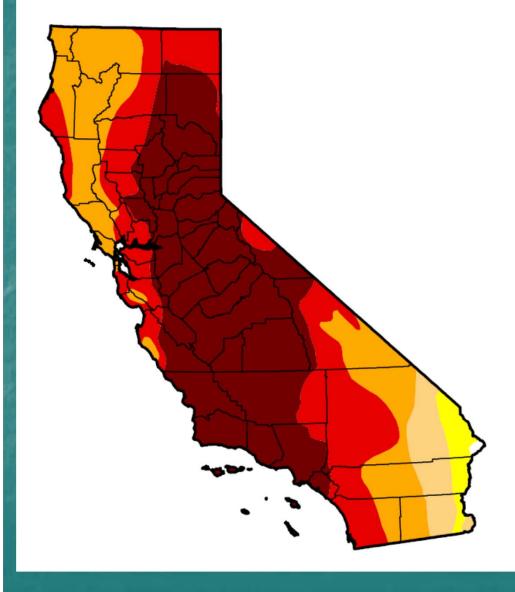
California State Rice Outlook

Cass Mutters UC Cooperative Extension Rice Outlook Conference New Orleans, LA December 11, 2015





U.S. Drought Monitor December 1, 2015



Recent rains have not moderated the drought

Intensity:

D0 - Abnormally Dry D1 - Moderate Drought D2 - Severe Drought



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

5 percent of the average water content. Lowest on that date in records dating to 1950.

Lake Tahoe

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

Governor declares drought state of emergency

25% mandatory water use _reduction

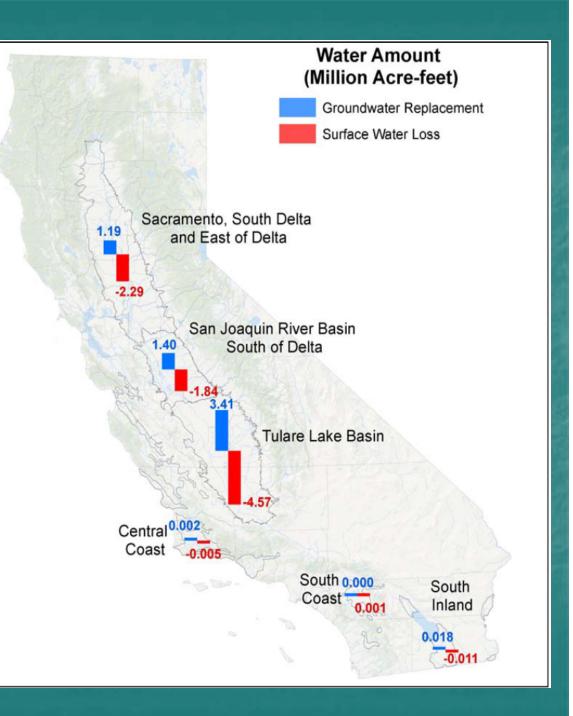
U.S.B.R. Central Valley Project record low deliveries: zero project water to south-of-Delta agricultural contractors

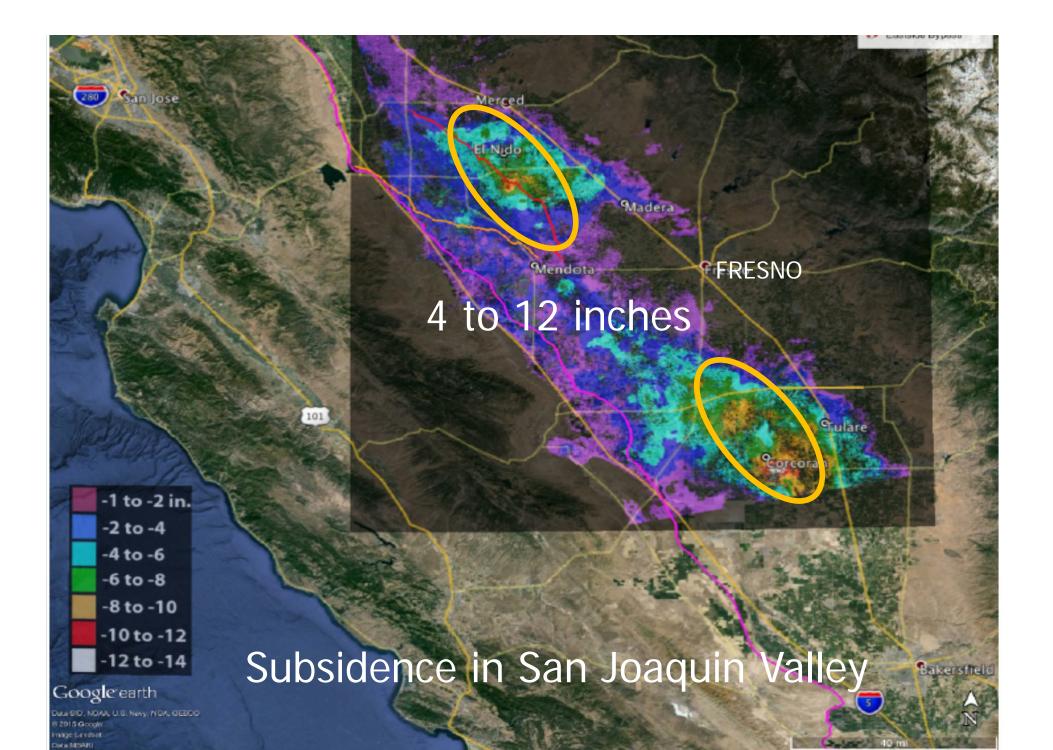
SWP provided only 20 percent of its urban and agricultural contractors' requested amounts.

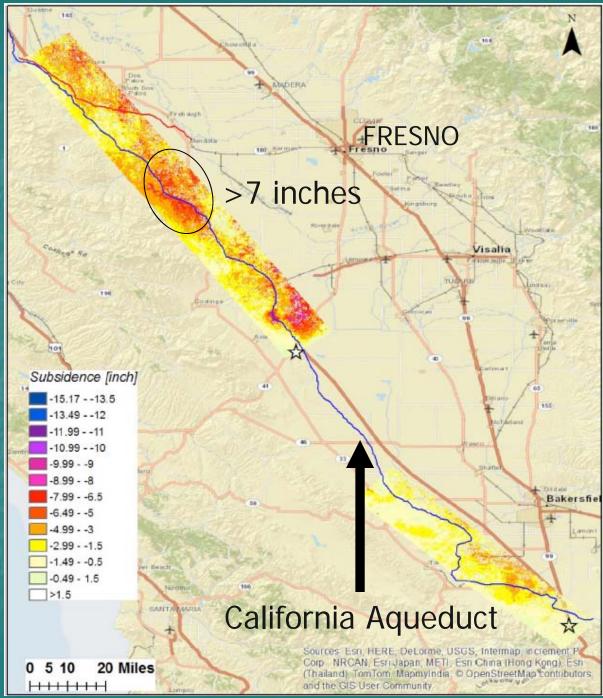


Greater ground water pumping

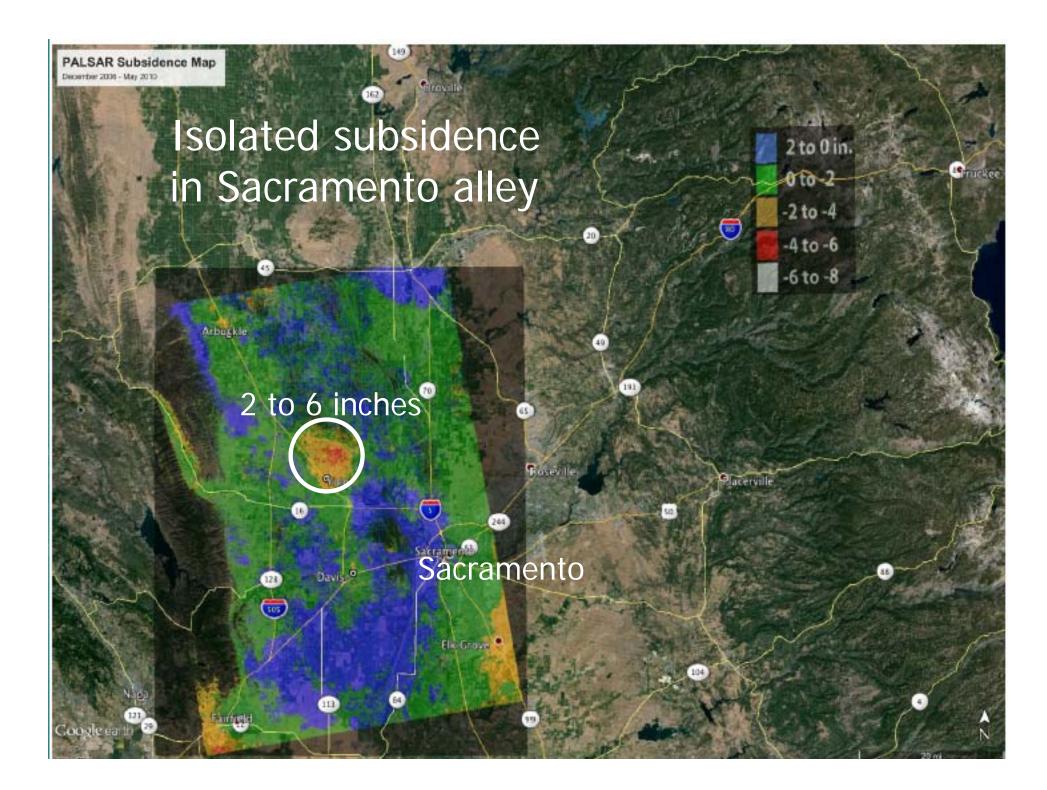
- 8.7 million AF shortage
- 6 million AF from ground water (70% of shortage)
- 540,000 fallowed acres

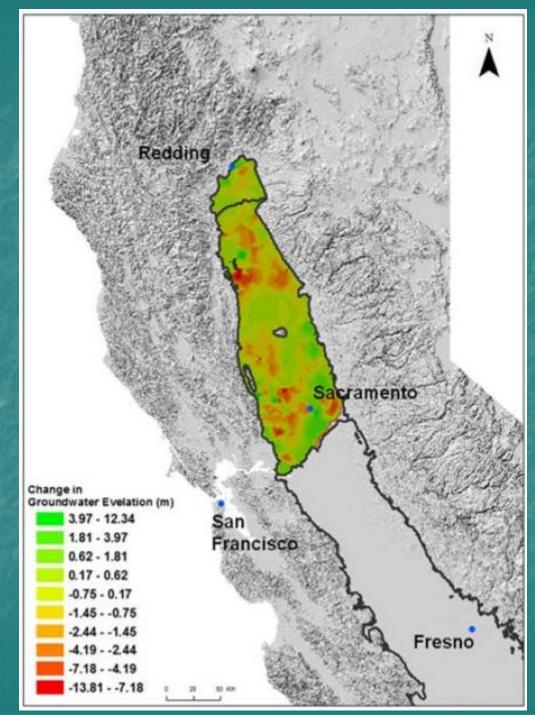






Ground subsidence is threatening water distribution infrastructure

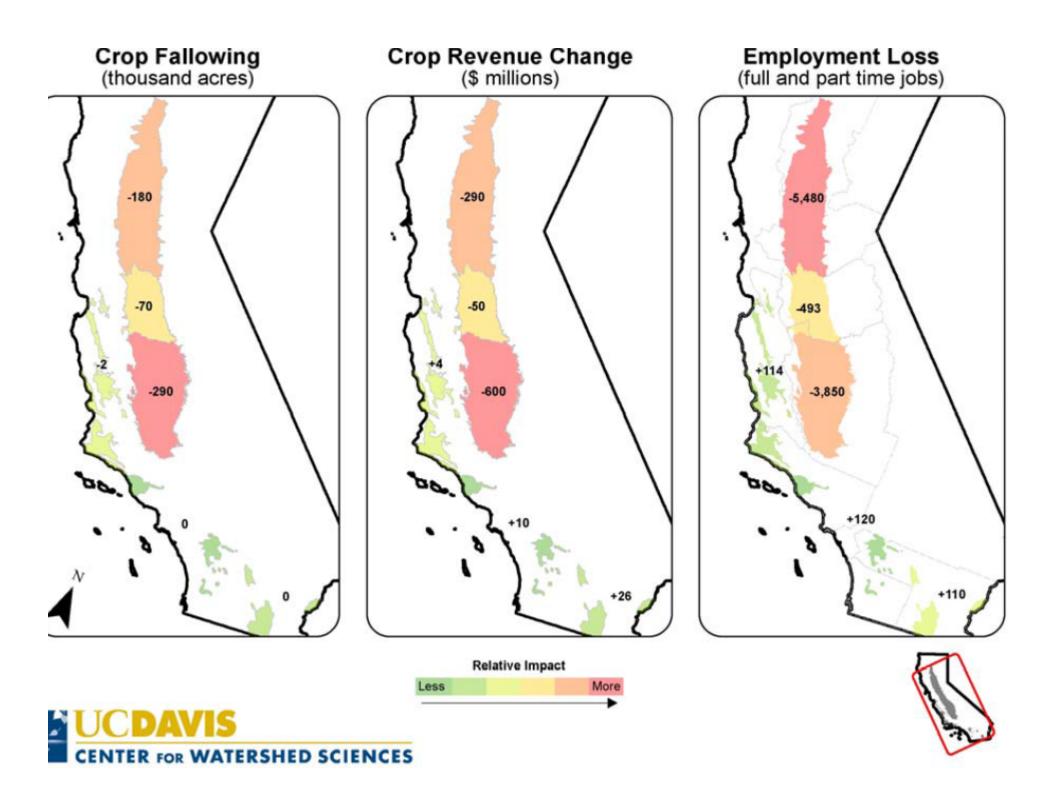




Ground water levels dropping in Sacramento Valley

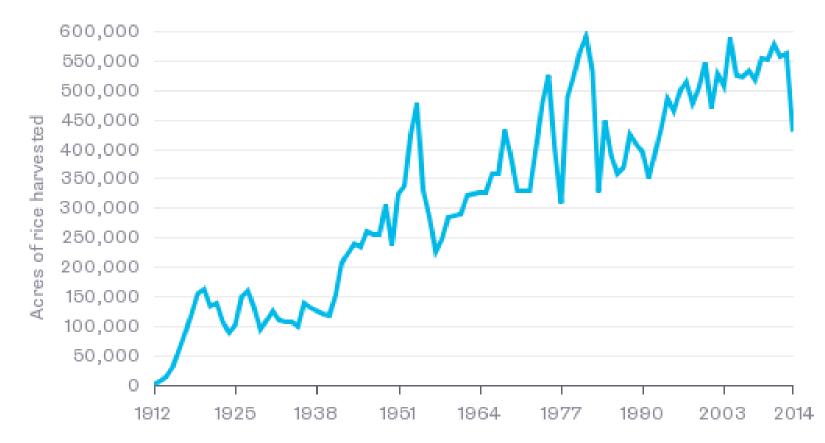
Up to 13 feet in some areas

Source: USGS



California's Rice Century

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





20132015Water availability ranged from 0 to 75%

Chico

RES

Chico

RES

Sacramento



Sacramento

2015 Summary

1.Dry spring; early planting

2.Planted acreage dominated by medium grainM205, 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

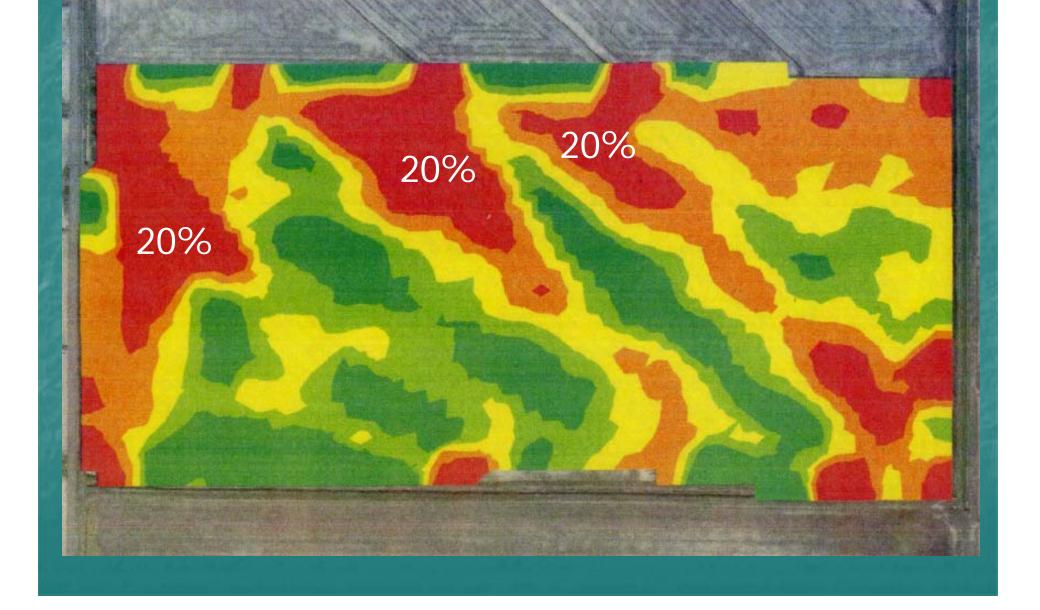
6.Substantial army worm pressure in north valley

Army worm damage was severe in some areas

60,000 acres treatedPyrethoid ineffective

Photo: L Espino

20% yield reduction



California Production: 2013 -2105

Year	Acres (X 1000)	Ave yield Ib/acre (bushels)	Total production (million cwt)
2013	560	8400 (187)	46.7
2014	428	8500 (189)	36.4
2015	410	8600 (191)*	35.3

2014 + 2015 ~ \$434,000,000 lost revenue

* 132 cwt/acre (293 bu)

California Outlook – 2015 crop
 Reduction in supply greater on west side of the Sacramento Valley

The reduction in supply moderated by carry over from 2014

Adequate supply to meet market commitments

California Outlook – 2016 crop

Further reduction in planted acres unlikely

Water rights and/or settlement contracts agreements strong

 Expansion of planted acres depends on winter rains

Questions & Comments?

Photo: M Wurlitzer