



WESTLANDS WATER DISTRICT

Lemoore Chamber of Commerce

February 12, 2014

**Water 101:
California Water Systems**



WESTLANDS WATER DISTRICT

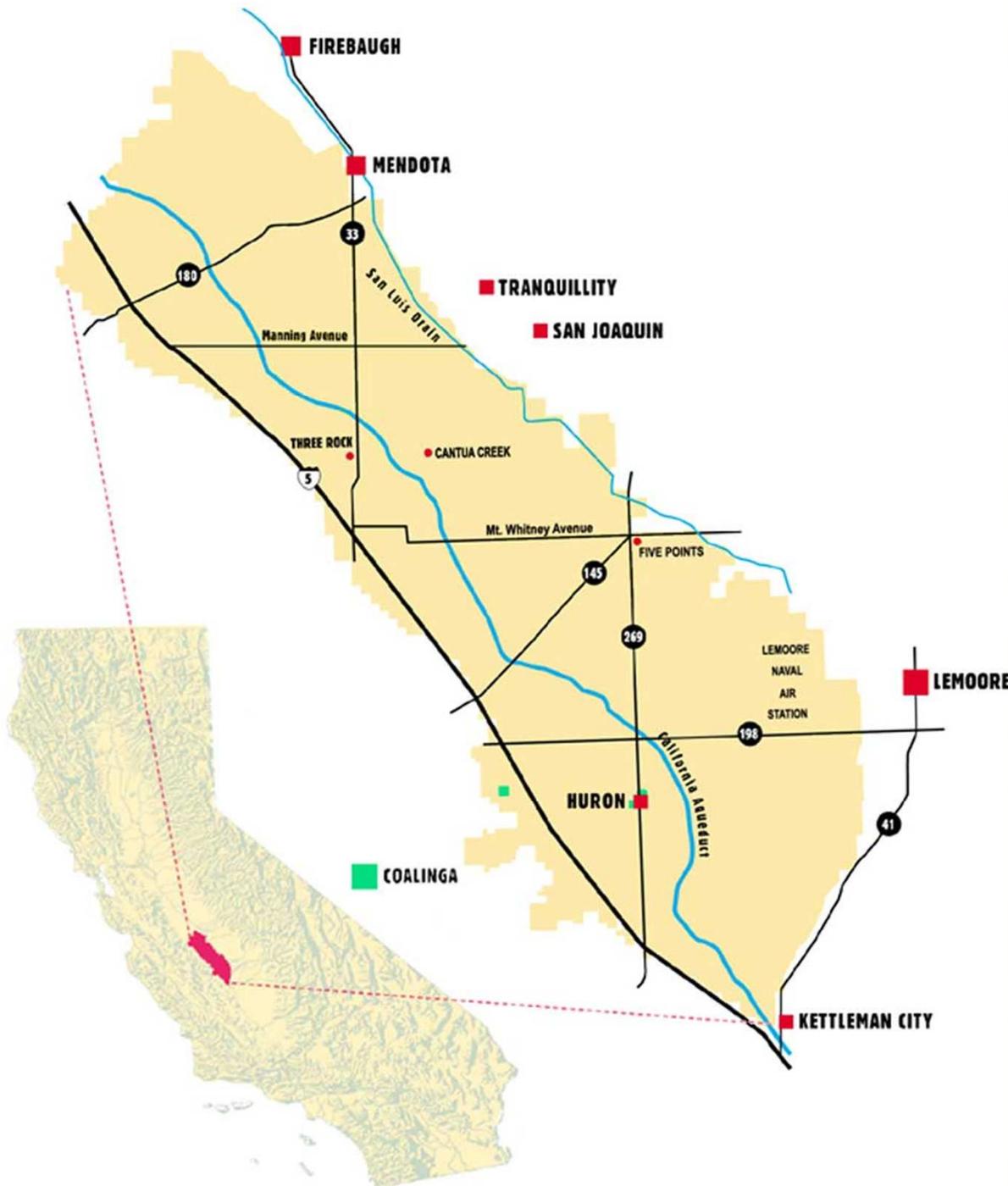
Providing a water supply to over 600,000 acres of agricultural land in Western Fresno and Kings Counties to produce over 60 different crops that contribute more than \$1 Billion in Ag revenue to the State of California.

Westlands Water District

Our District averages
15 miles wide by
70 miles long of prime
agricultural land through
the Central Valley.

700 family farms with
the average size of 875
acres.

Annual CVP Allocation
of 1,150,000 AF



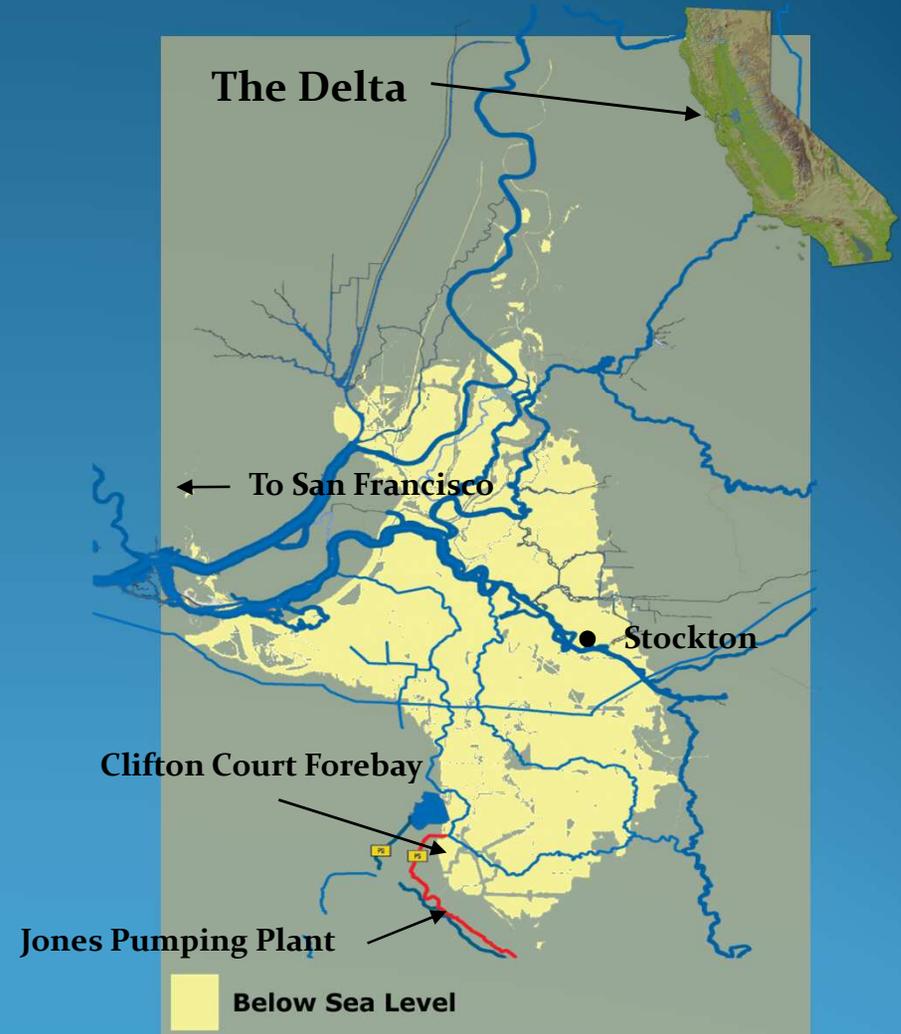
Select from the following Map Views

- Major Rivers
- State Projects
- Federal Projects
- Local Projects
- All Water Projects



Why is the Delta so important?

- Fresh water from the Delta supports:
 - 25 million Californians
 - 3 million acres of Agriculture
- \$400 billion of the State's economy annually
- Any loss impacts our economy and environment.



Endangered Species Act

and other Species of Concern



Delta smelt

1993 – Threatened (CESA/FESA)



Chinook Salmon

1989 – Winter-Run: Endangered (CESA)
1990 – Winter-Run: Endangered (FESA)
1999 – Spring-Run: Threatened (CESA/FESA)



Steelhead

1998 – Threatened (FESA)
No CESA listing



Longfin smelt

2007 – Petition under consideration
(FESA & CESA)



Sacramento Splittail

1999 – Threatened (FESA)
2003 – FESA listing removed
No CESA listing



Green Sturgeon

2006 – Threatened (FESA)
No CESA listing

WATER SUPPLY 2014 – 2015

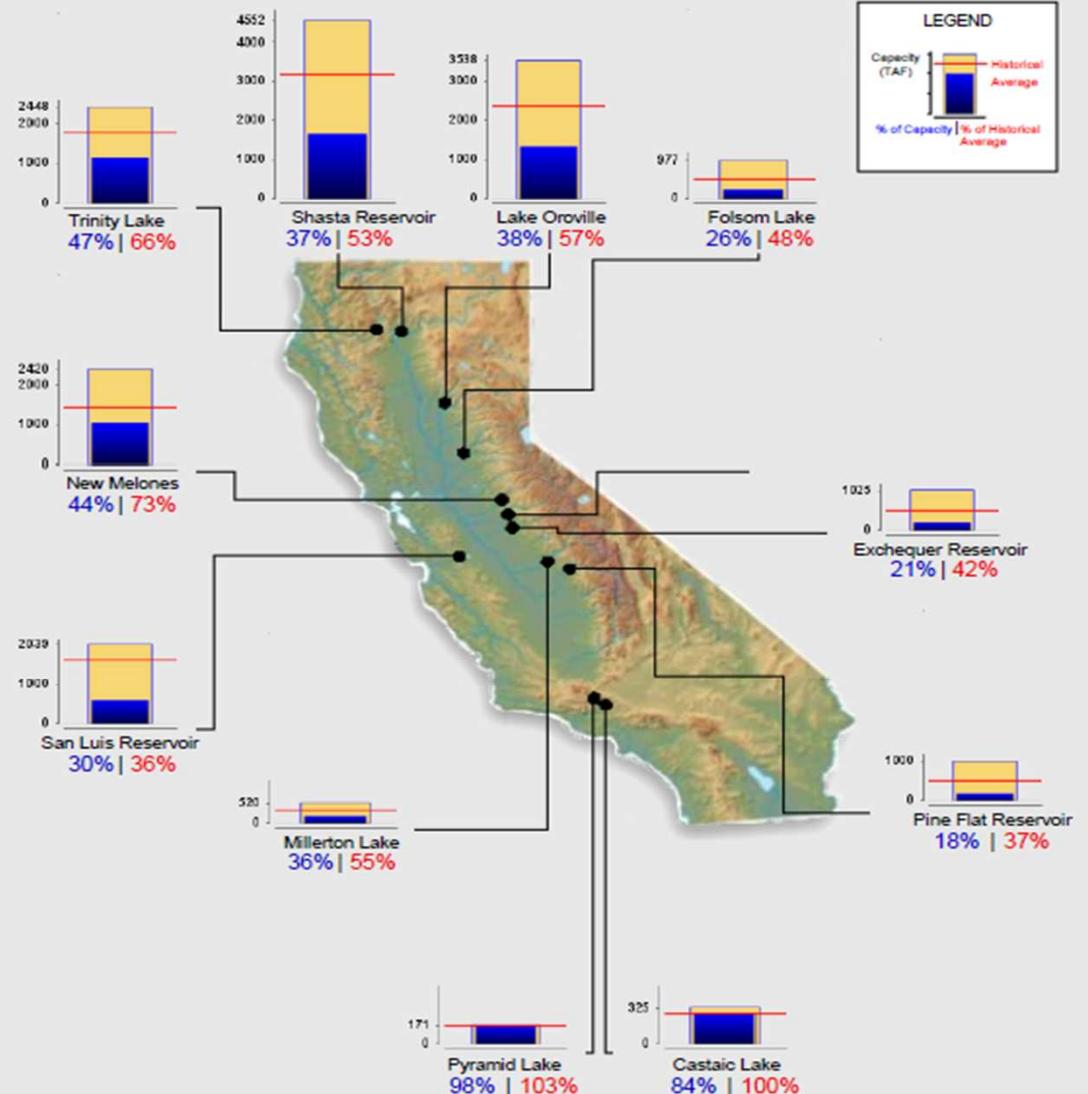
STATE WATER
PROJECT
CONTRACTORS
South of the Delta – 0%!

CENTRAL VALLEY
PROJECT
CONTRACTORS
South of the Delta –
Projected 0%!



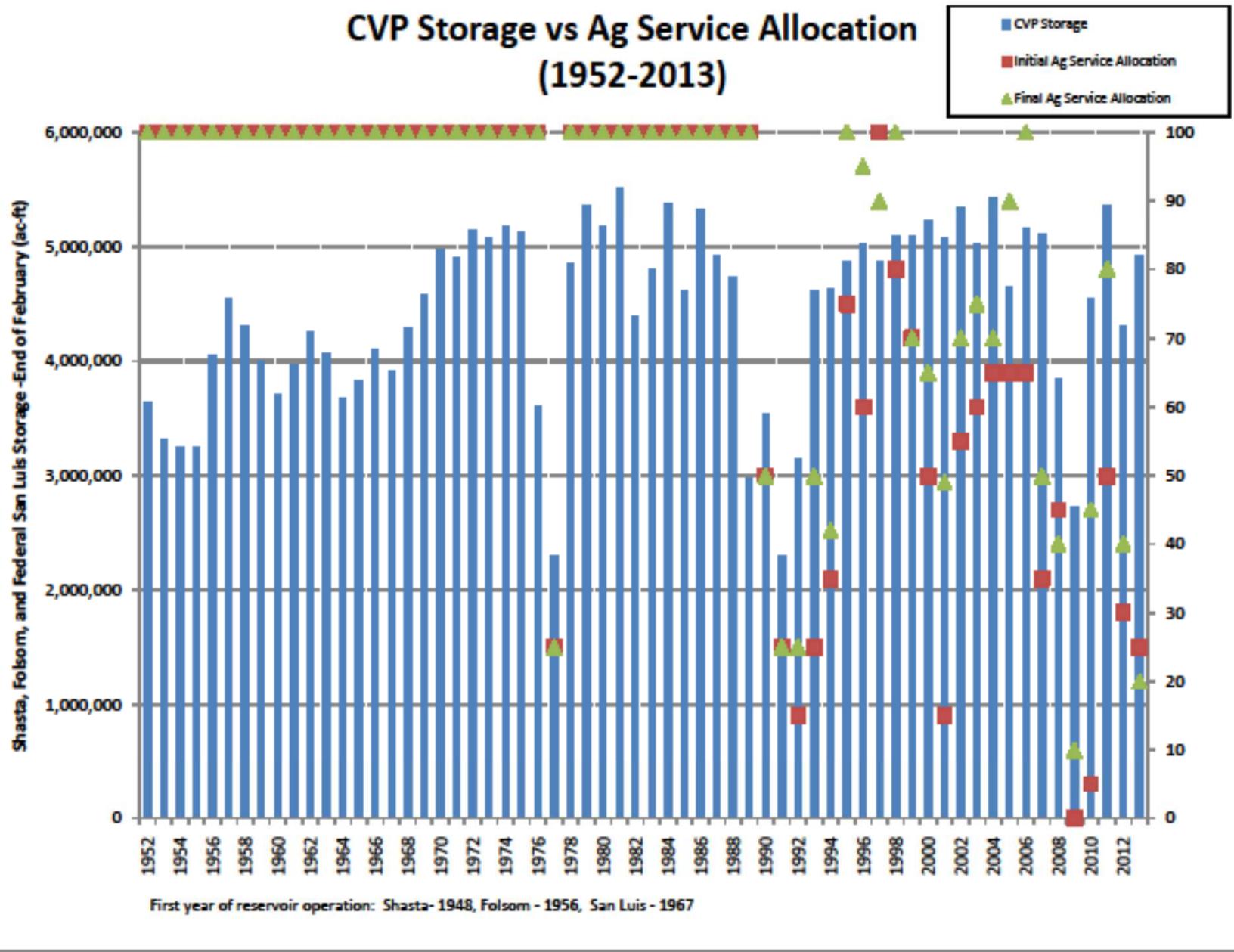
Ending At Midnight - February 10, 2014

CURRENT RESERVOIR CONDITIONS

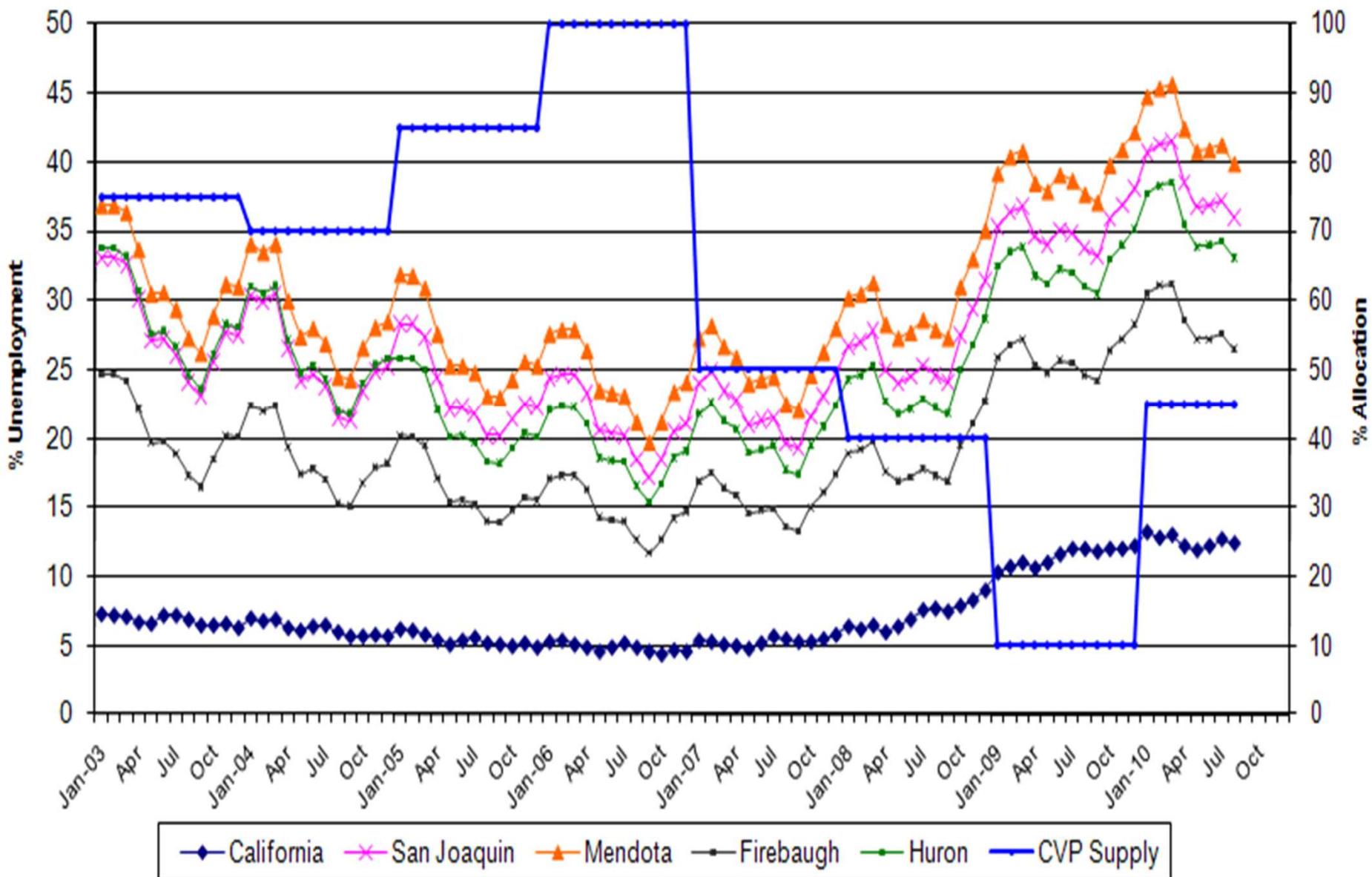


Graph Updated 02/11/2014 04:15 PM

CVP Storage vs Ag Service Allocation (1952-2013)



Unemployment Rates in California, San Joaquin, Mendota, Firebaugh, and Huron, 2003-10
 vs.
 CVP Water Allocation



Source: EDD, not seasonally adjusted

IRRIGATION INVESTMENT

Table 20: On-Farm Irrigation Systems

| <u>Type of System</u> | <u>Percentage of Land Irrigated</u> | | | | | | |
|------------------------------|-------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | <u>1985</u> | <u>1990</u> | <u>1995</u> | <u>2000</u> | <u>2005</u> | <u>2010</u> | <u>2011</u> |
| <i>Surface</i> | | | | | | | |
| Furrow | 60 | 38 | 34 | 28 | 20 | 8 | 10 |
| Border Strip | 3 | 5 | 2 | 2 | 3 | 3 | 3 |
| Combination sprinkler/furrow | 15 | 38 | 43 | 44 | 34 | 11 | 10 |
| <i>Pressurized</i> | | | | | | | |
| Sprinkler | 21 | 16 | 15 | 13 | 10 | 11 | 12 |
| Drip/Trickle | <u>1</u> | <u>3</u> | <u>6</u> | <u>13</u> | <u>33</u> | <u>67</u> | <u>65</u> |
| Total | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

- Westlands Growers continue to invest in irrigation systems. Almost 80% of the District is now on drip or micro-sprinkler irrigation.

Water = Food and Jobs



Spring Lettuce Harvest on Westside

Tomato Harvest on the Westside



WATER SUPPLY COPING STRATEGIES

- Drilling New Wells
 - Huge cost outlay
- Purchasing water in the open market
- Carrying water forward from one year to the next
- Following acreage



Sustainable Surface Water Supply for Westlands

- Bay Delta Conservation Plan
baydeltaconservationplan.com
- Water Bond
- Improved water transfer process
- Increased Storage



WESTLANDS WATER DISTRICT

THANK YOU!

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