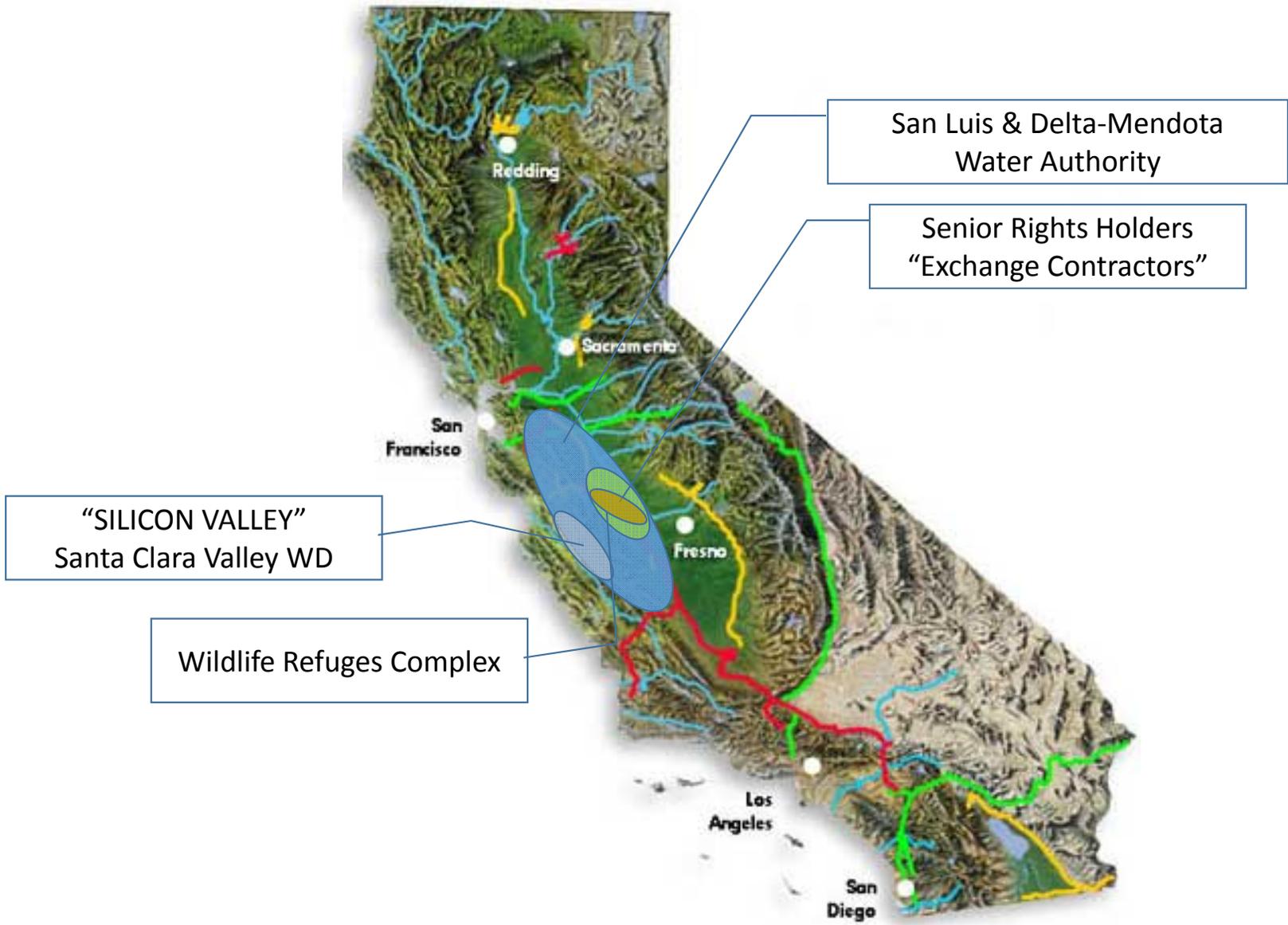


Delta Stewardship Council

2016 Water Year “El Nino and Beyond”



Ara Azhderian
Water Policy Administrator
April 28, 2016







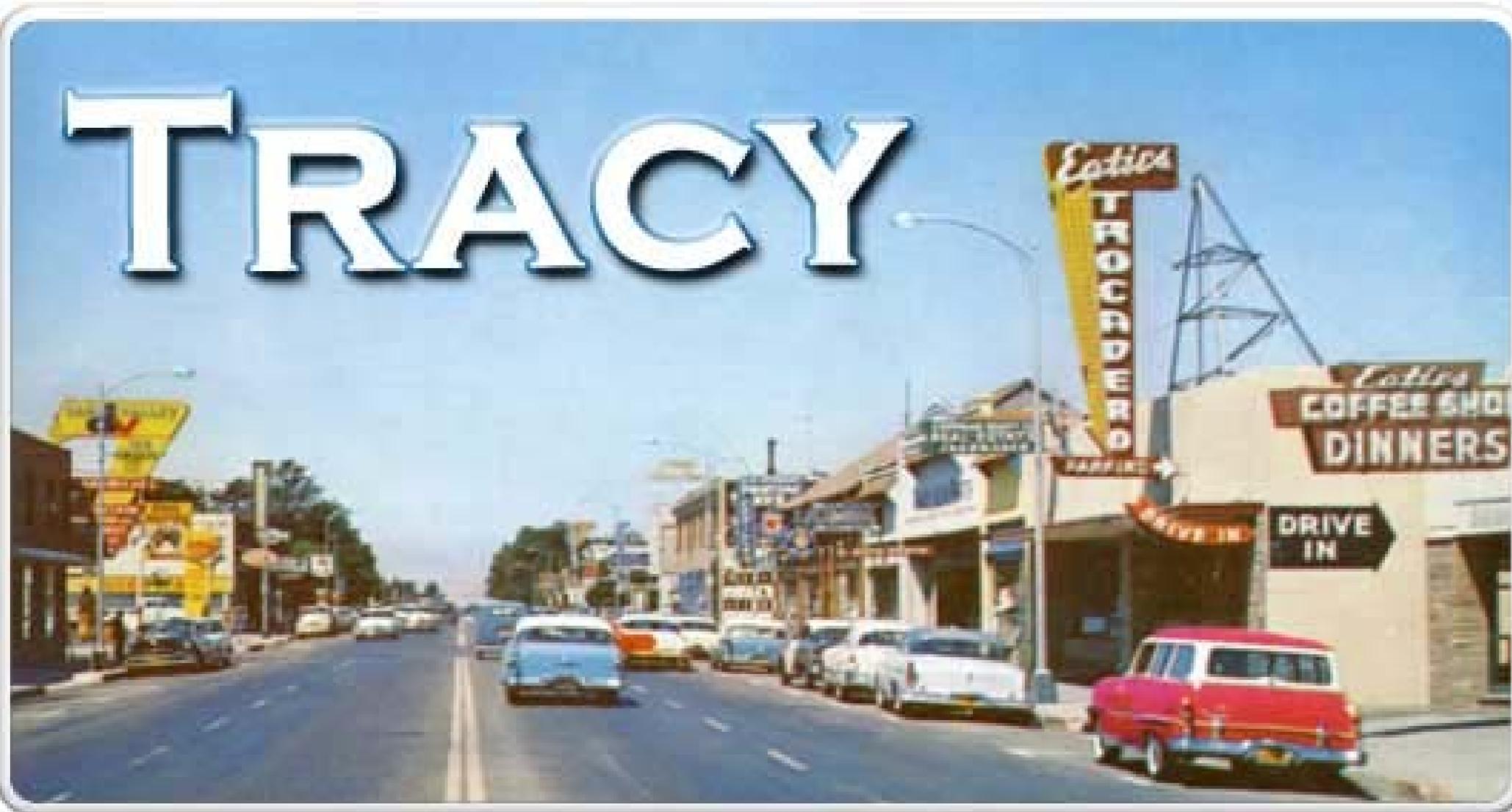








TRACY



Kettleman City
POP 1,505 ELEV 240

**EMERGENCY
CALL 9-1-1**





*Greetings
from* **HURON, CALIFORNIA** **The Cantaloupe
Capital**





Photos by Gary Zahm



Photos by Gary Zahm



Photos by Gary Zahm



Photos by Gary Zahm



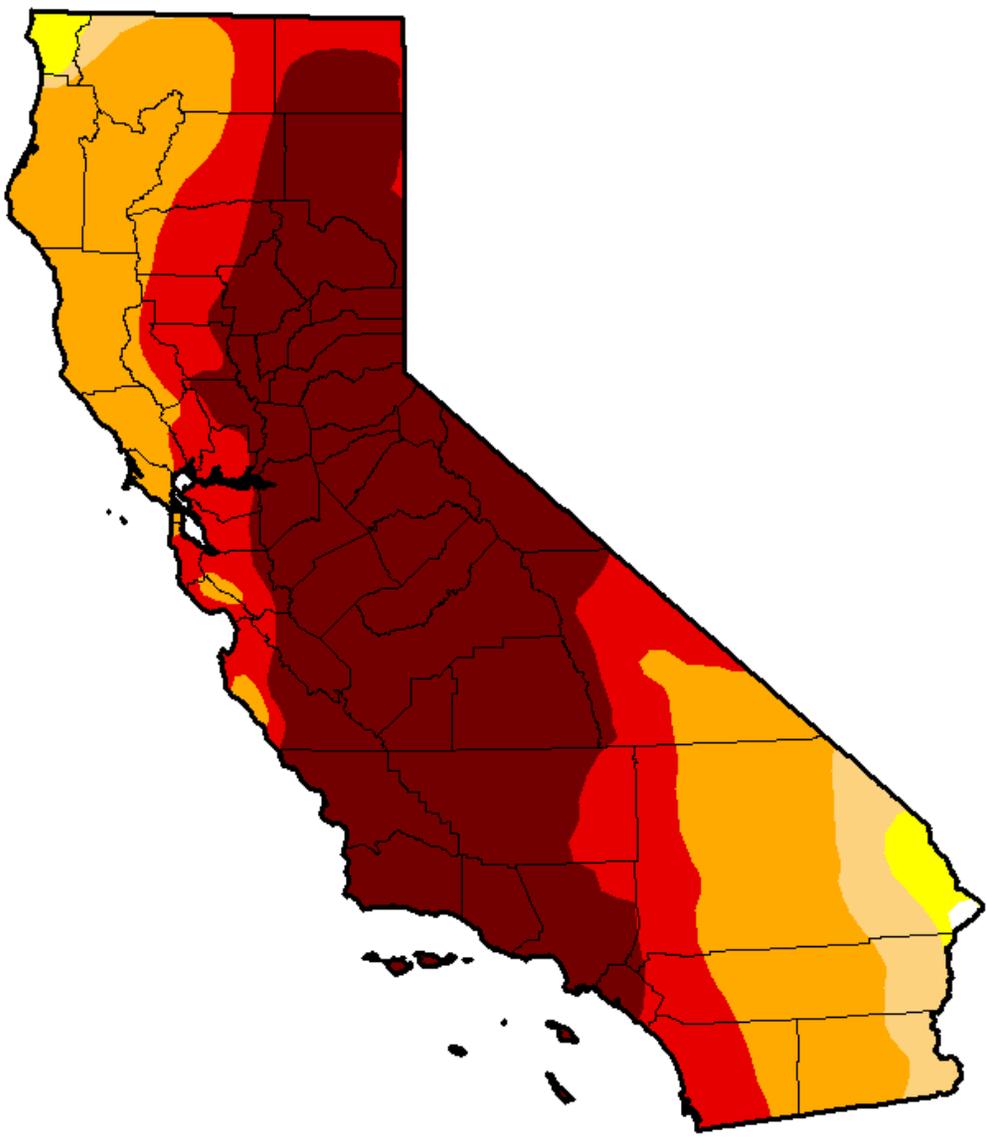




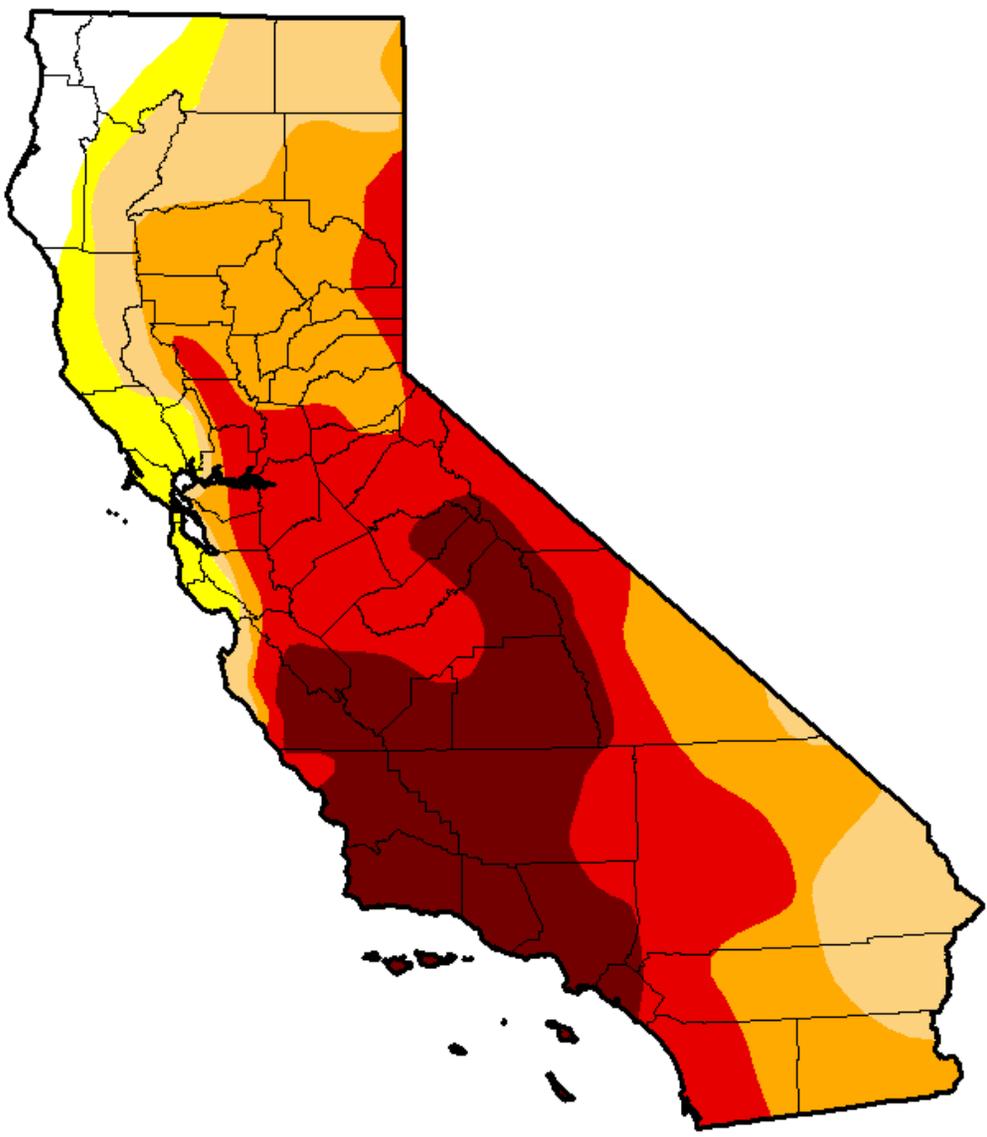






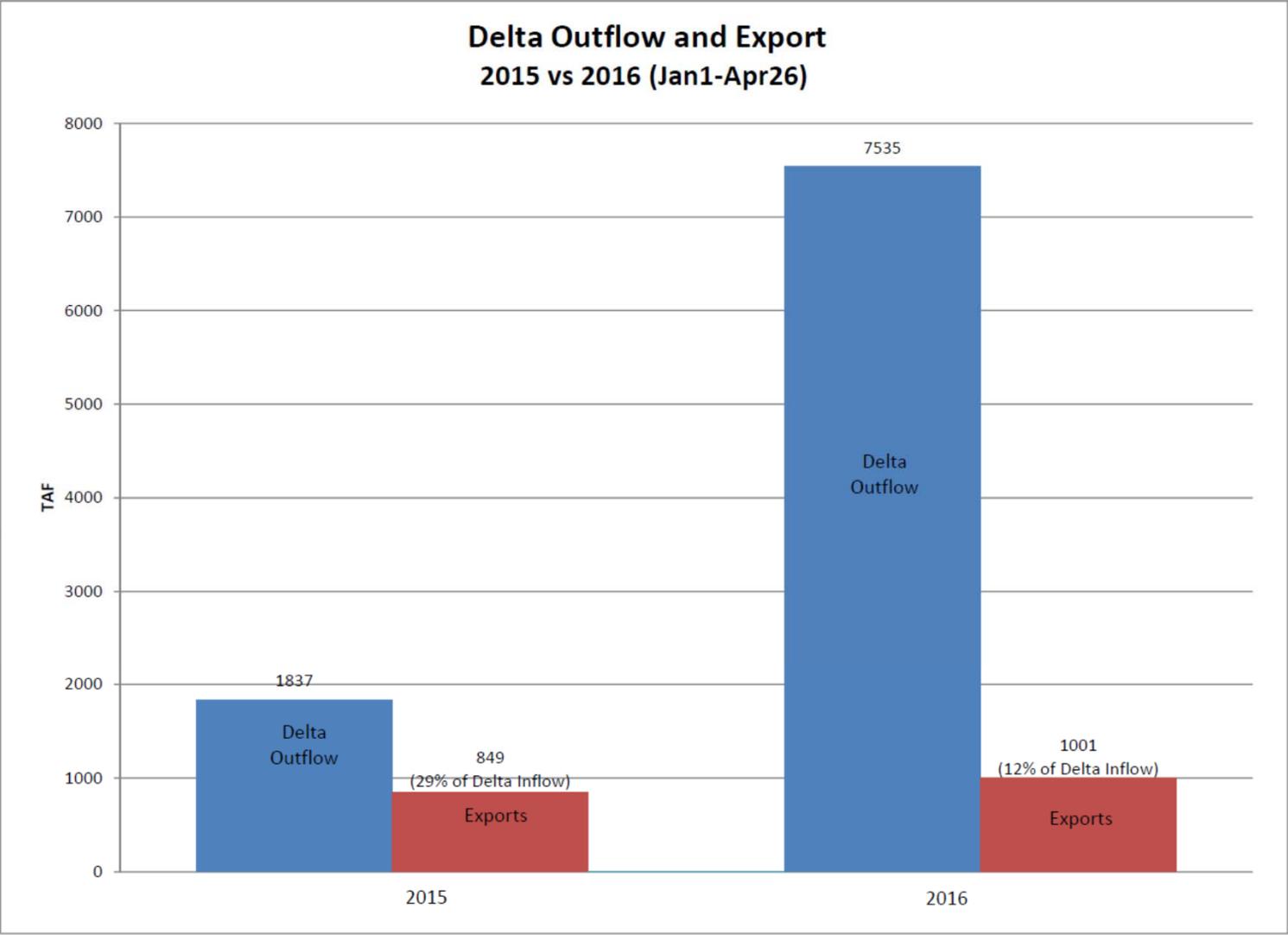




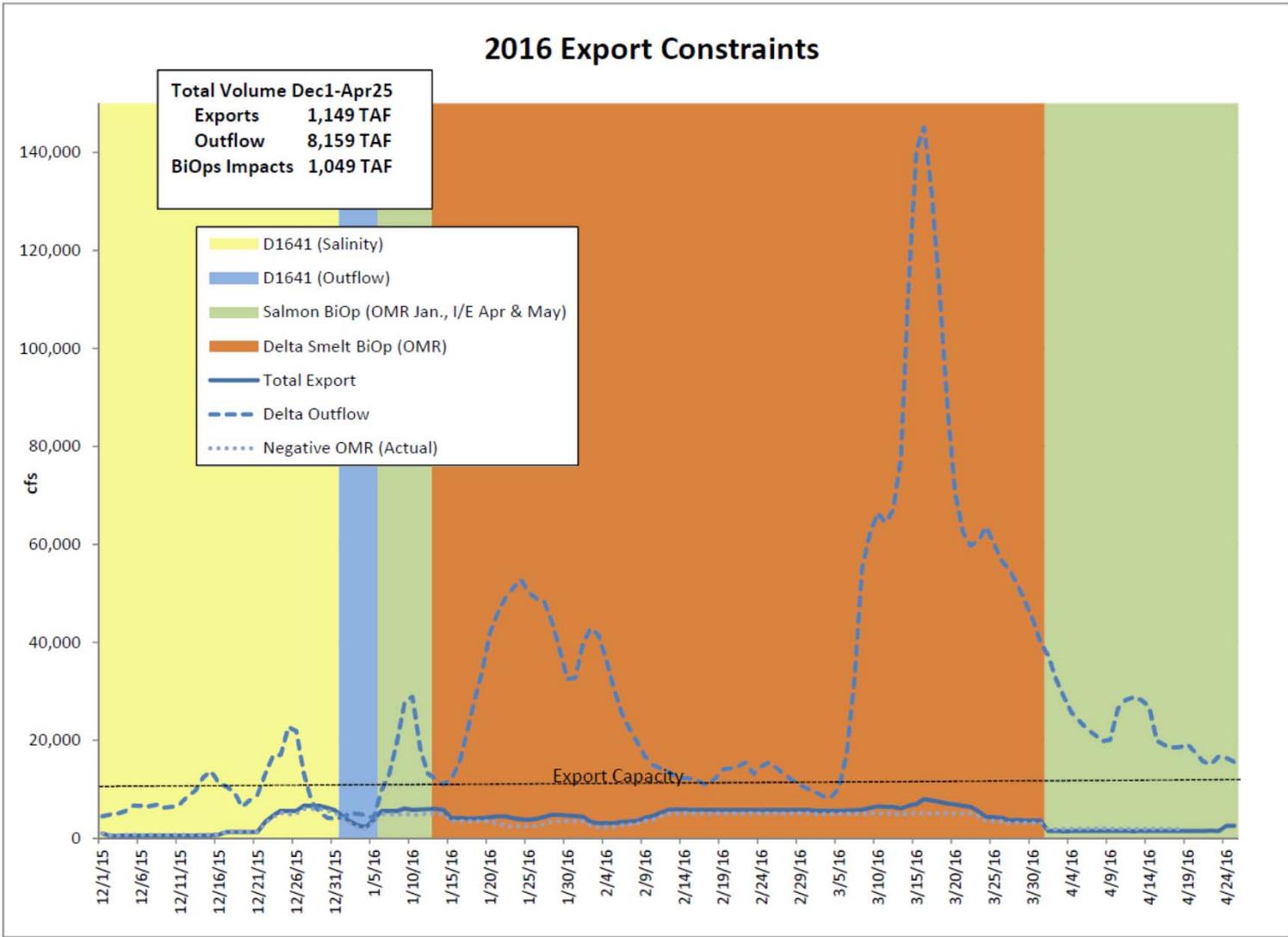




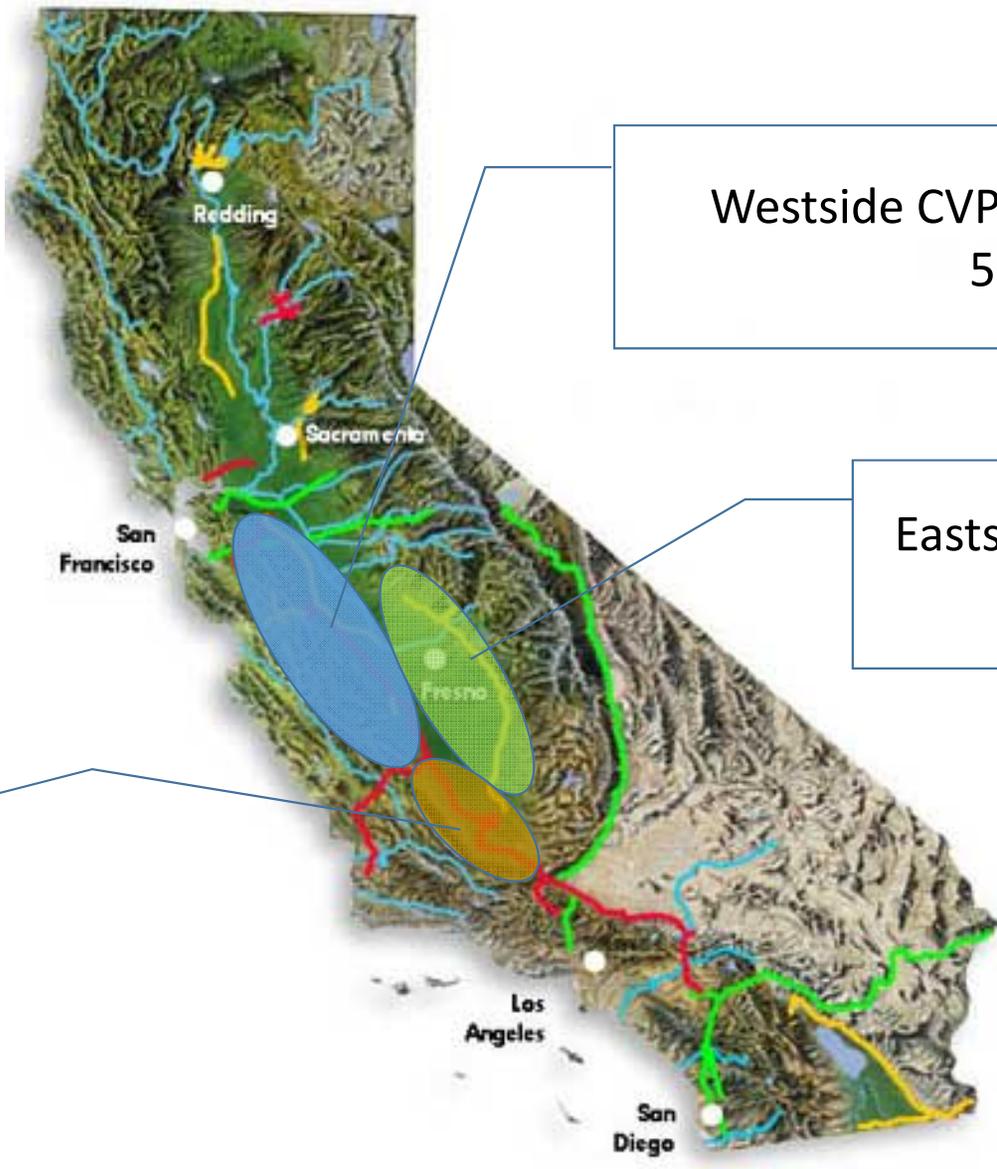




T. Boardman, SLDMWA
4/27/2016



T. Boardman, SLD MWA
 4/26/2016



Westside CVP Ag Allocation
5%

Eastside CVP Ag Allocation
50%

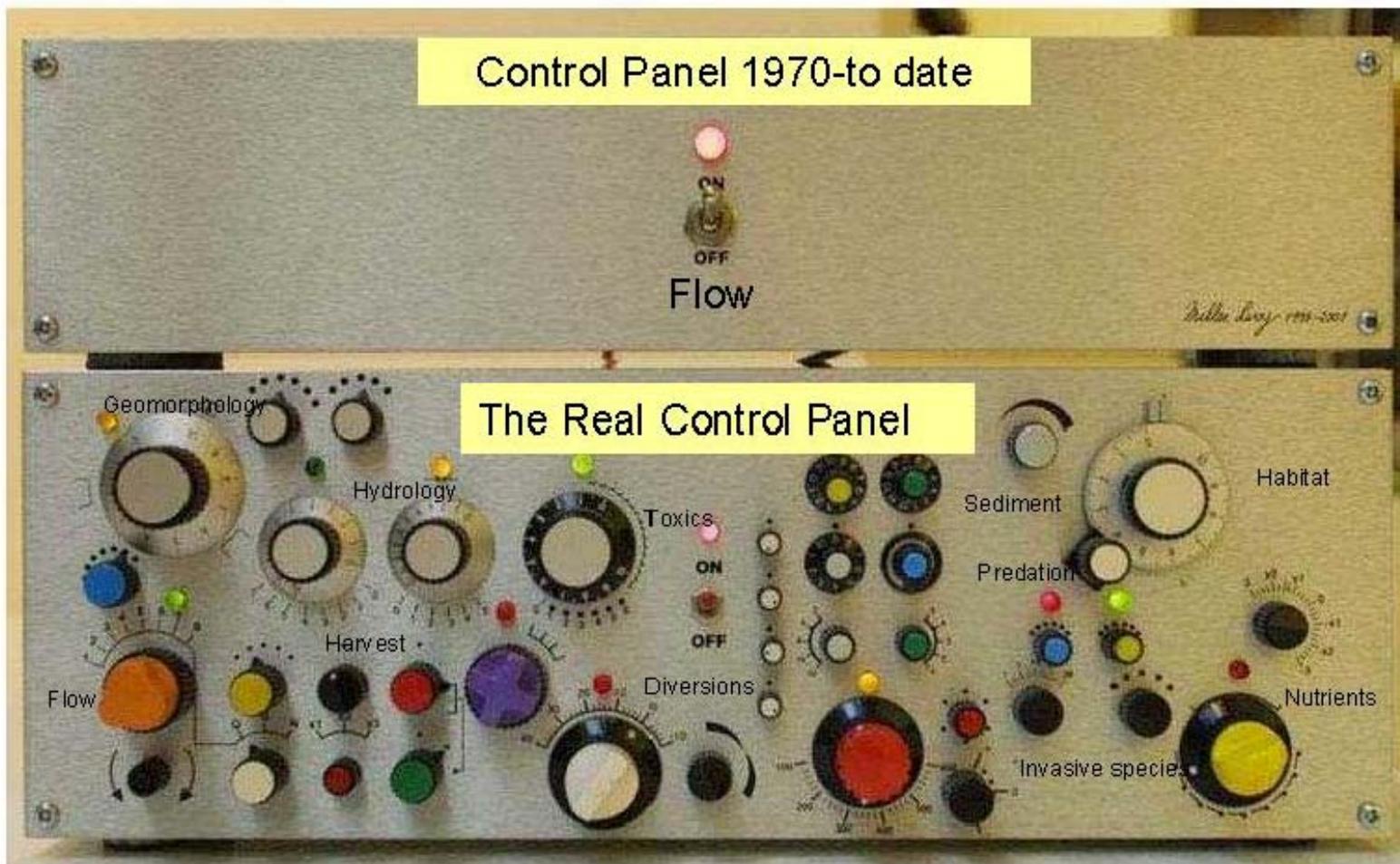
SWP Ag Allocation
60%







Delta Ecosystem Management



2016 - Dr. Cliff Dahm reporting “take home messages” from the Delta ISB’s “Flows and Fishes in the Sacramento-San Joaquin Delta” report before the State Water Board:

“The first one is that moving forward, we really need to *focus more on cause and effect relationships*, not just correlations, because correlations can sometimes be spurious,”

2006 - Review Panel Report: San Francisco Estuary Sacramento-San Joaquin Delta Interagency Ecological Program on Pelagic Organism Decline:

“More generally, in using historical data to infer the effect of an environmental variable on a biological population, *it is important to go beyond simply attempting to establish a correlation between the environmental variable and abundance.* Instead, inference should be based on an understanding of the direct effect of the environmental variable on population dynamics (e.g., on one or more vital rates) and how this direct effect would be reflected in abundance.

1996 – The Interagency Ecological Program (IEP) and U.S. Geological Service regarding the “so-called fish-X2 relationships”:

- IEP: “However, the salinity standard [X2] is a rather crude management tool. More precise influence on these species in terms of quantity or timing of outflow would be desirable for efficient management. In addition, the potential influence of alternative or complementary management actions is difficult to determine from these relationships”
- USGS: “Significant scientific uncertainty remains, however, about the specific linkages between salinity and fish species abundance and about how the aquatic ecosystem within the Delta and Suisun Bay might respond to changes in water flow management. Information is also needed about the relationships between river flow and ,...,the effects of contaminants both in the water, and associated with suspended and bottom sediments.”

2009 Delta Reform Act and Plan

- Calls for “comprehensive planning”:
 - Restore “large” areas of interconnected habitats;
 - Establish migratory corridors;
 - Reduce harm by invasive species;
 - Restore Delta flows and channels;
 - Improve water quality.
- Water Code 85302(e)

“

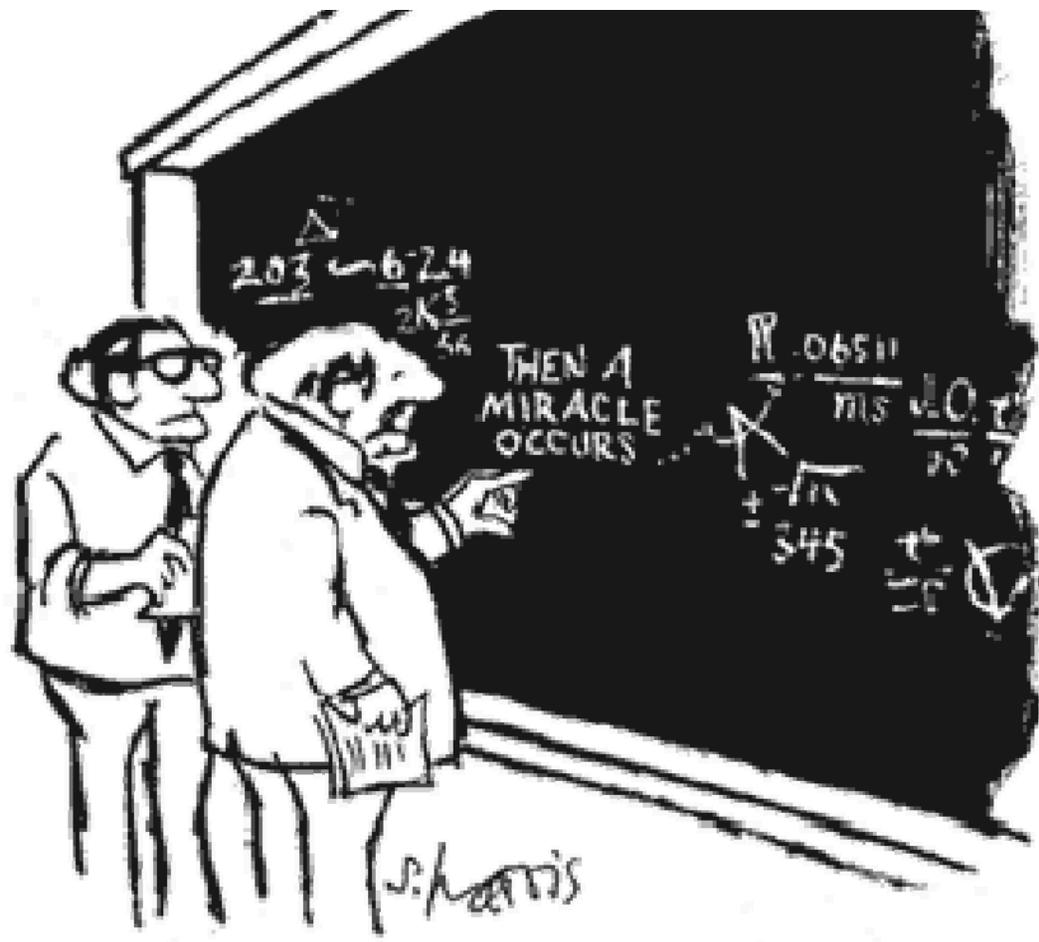
**FAILURE IS SIMPLY
THE OPPORTUNITY
TO BEGIN AGAIN,
THIS TIME MORE INTELLIGENTLY.**

”

Key Improvements Going Forward:

- Evaluate the current regulatory regime;
- Expand more integrative science approaches;
- Enhance national and international connections;
- Improve monitoring, timely analysis of data, and synthesis of research;
- **EXPERIMENT!**





"I THINK YOU SHOULD BE MORE EXPLICIT HERE IN STEP TWO."

Thank you for this opportunity

Contact Information

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Los Banos, CA 93635

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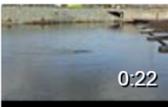
Delta Smelt

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