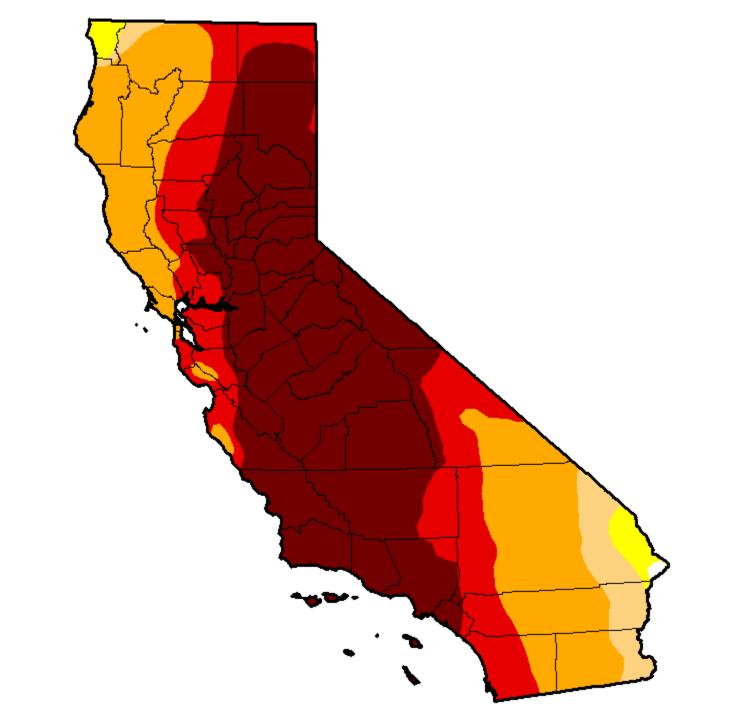


THE CONQUEST FOR AND HISTORY OF "CALIFORNIA WATER" PAST-PRESENT-FUTURE

Ara Azhderian
Water Policy Administrator
May 18, 2016







NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION



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Related links:

- » AUDIO: News Conference
- » VIDEO: Winter Outlook for 2015-2016
- » EL Niño Forecast

Strong El Niño sets the stage for 2015-2016 winter weather

October 15, 2015

Forecasters at NOAA's Climate Prediction
Center issued the U.S. Winter Outlook today
favoring cooler and wetter weather in Southern
Tier states with above-average temperatures most
likely in the West and across the Northern Tier.
This year's El Niño, among the strongest on
record, is expected to influence weather and
climate patterns this winter by impacting the
position of the Pacific jet stream.

"A strong El Niño is in place and should exert a strong influence over our weather this winter," said Mike Halpert, deputy director, NOAA's Climate Prediction Center. "While temperature and





Are you ready for a potentially wet and stormy winter? The time to prepare for heavy El Niño rainfall is now. Homeowners should take the necessary precautions to minimize property damage, and Mercury Insurance has compiled a checklist to help ensure you've got everything covered. Remember, while you can't control the weather, you can prepare for it.





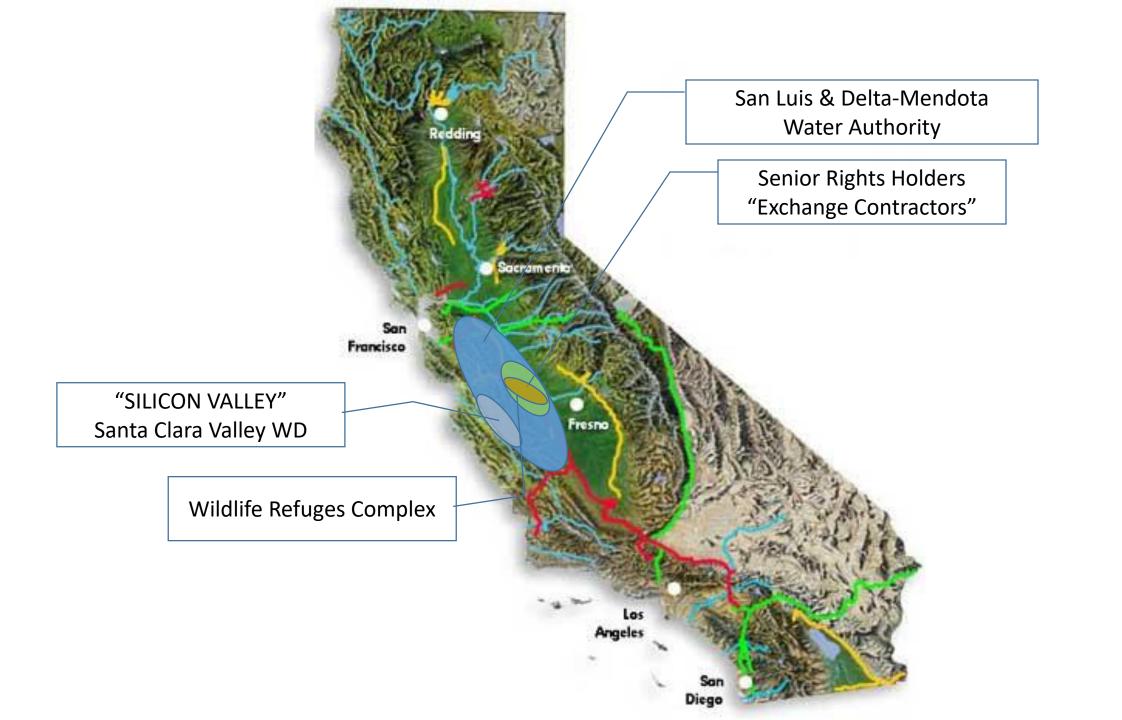


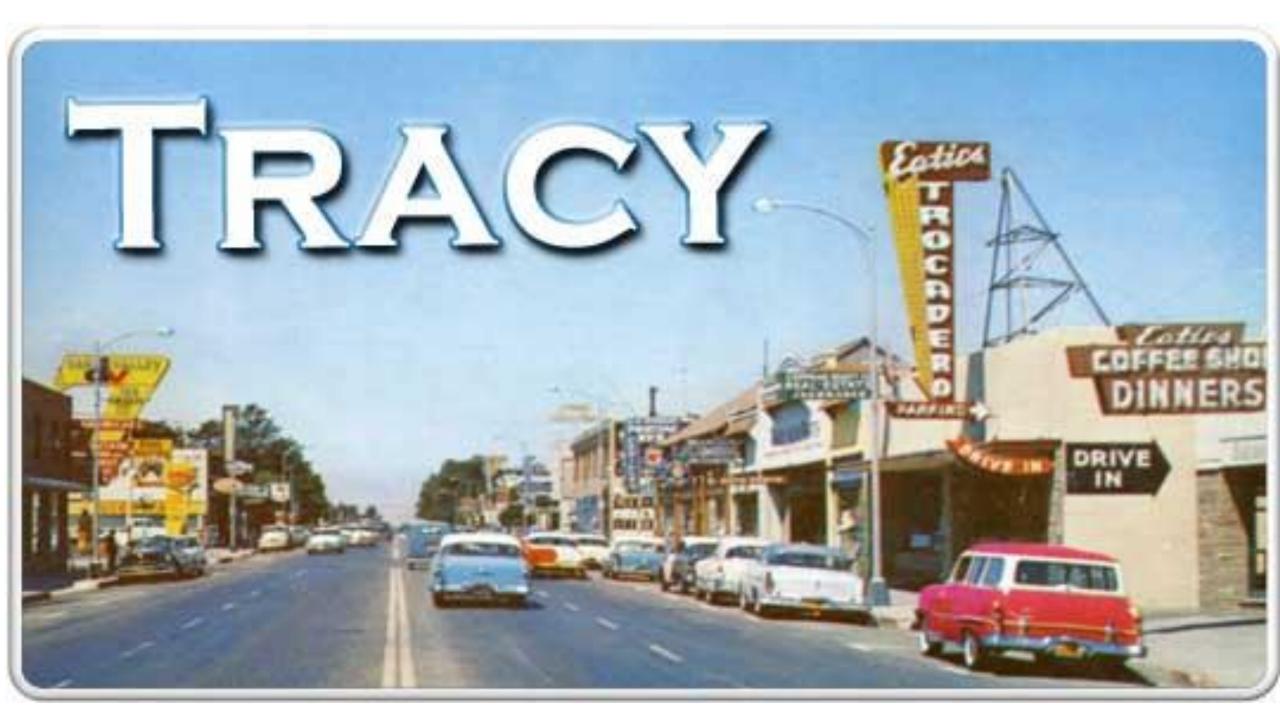
Nunes Blog

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Washington, April 1, 2016 | 0 comments













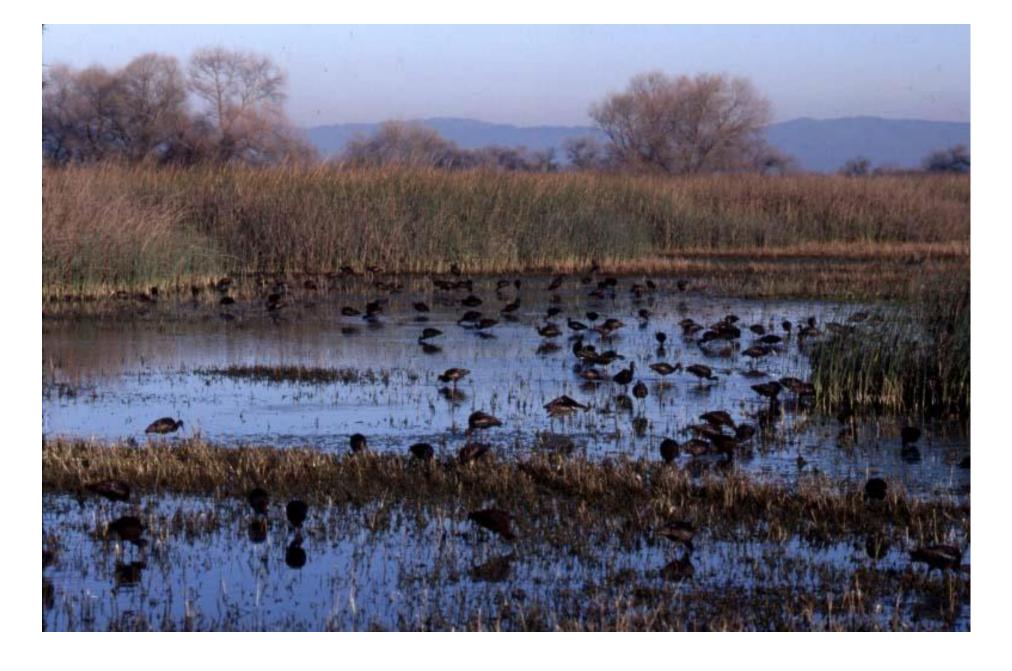




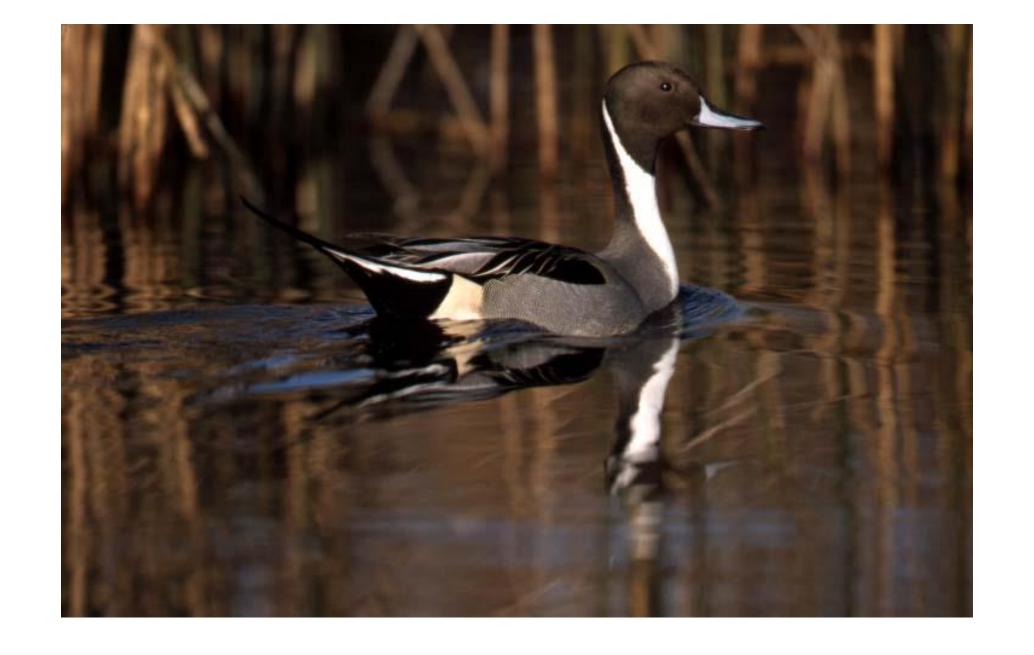








Photos by Gary Zahm



Photos by Gary Zahm



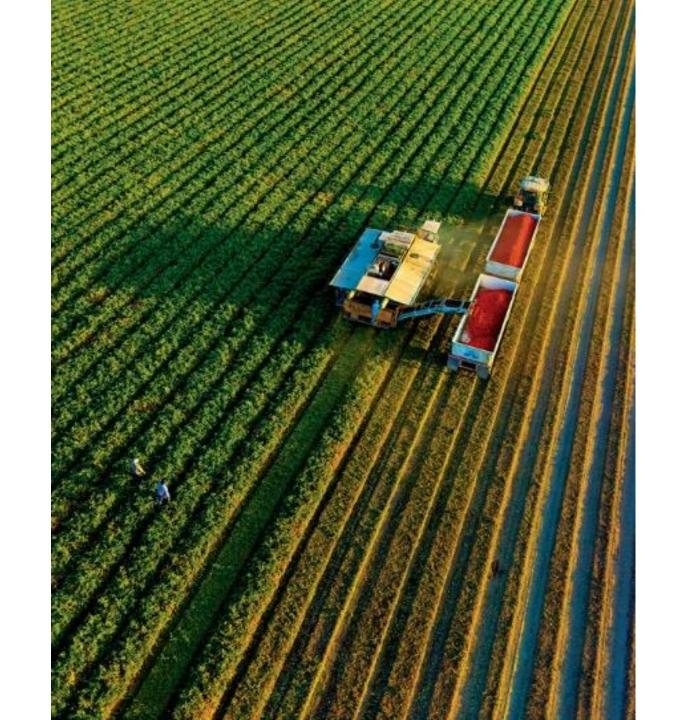




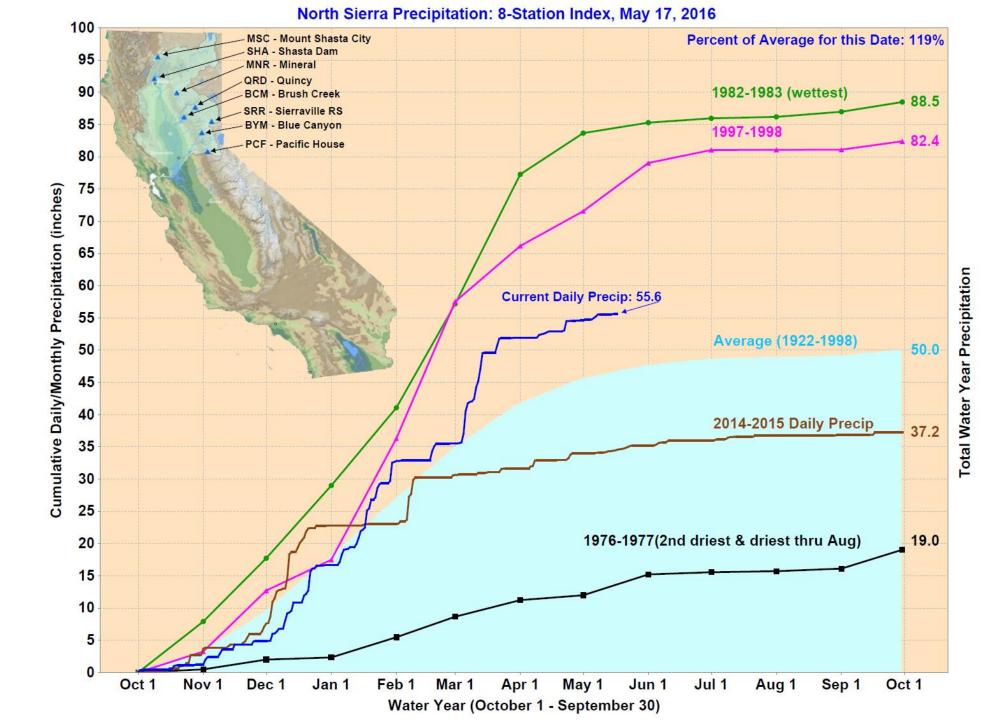


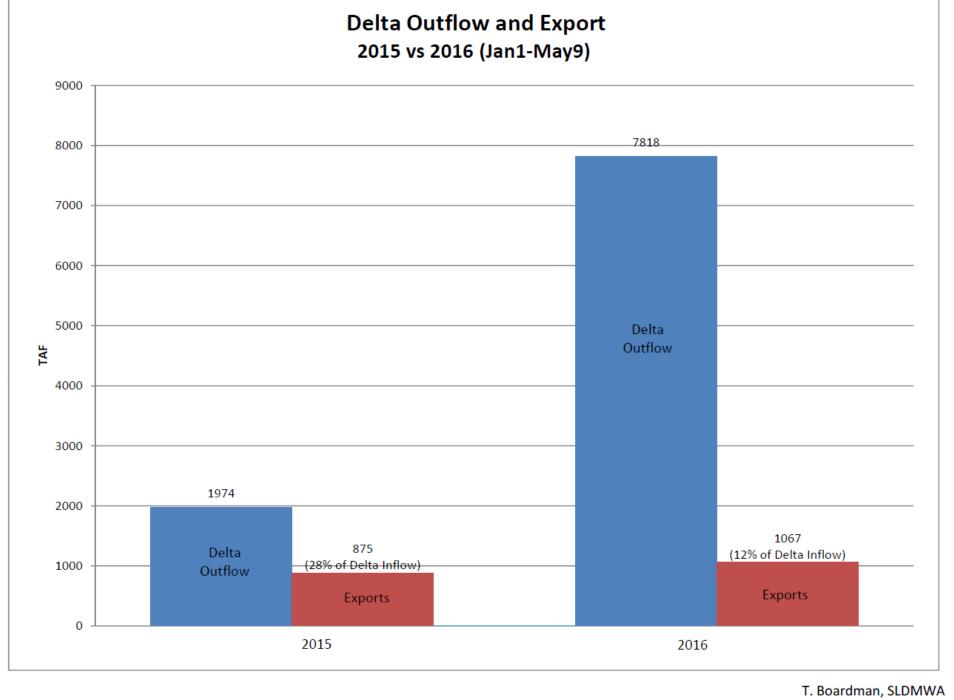




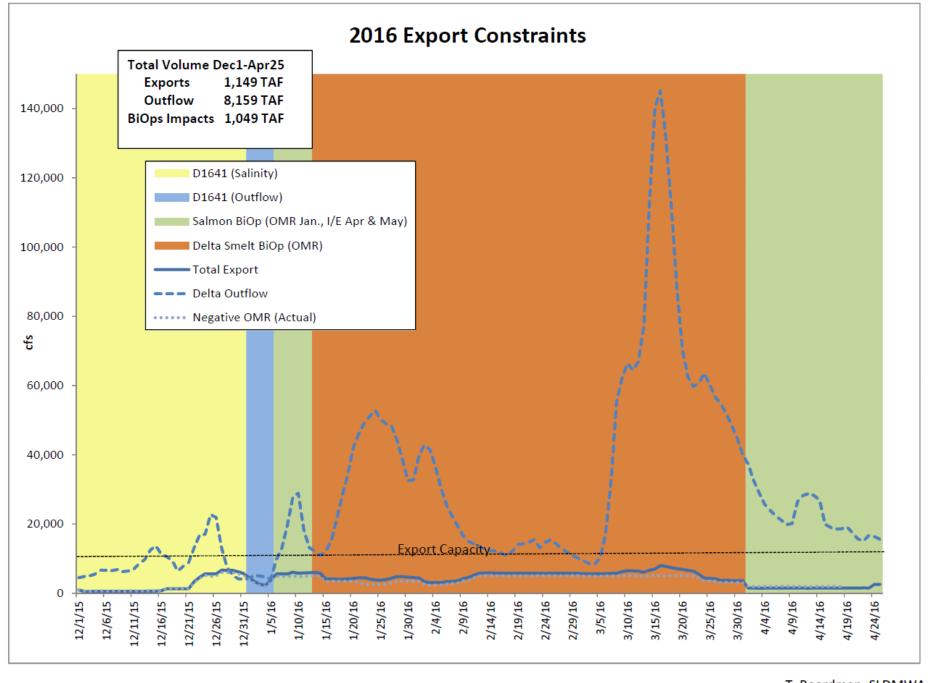


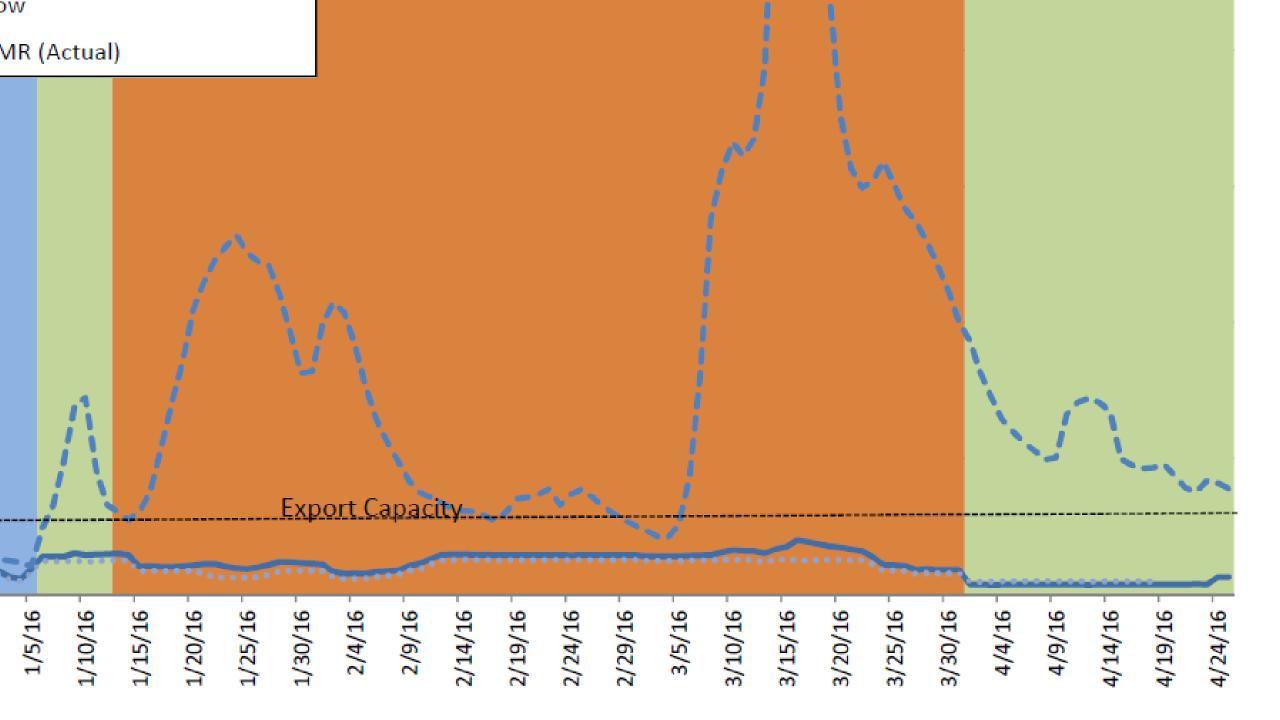


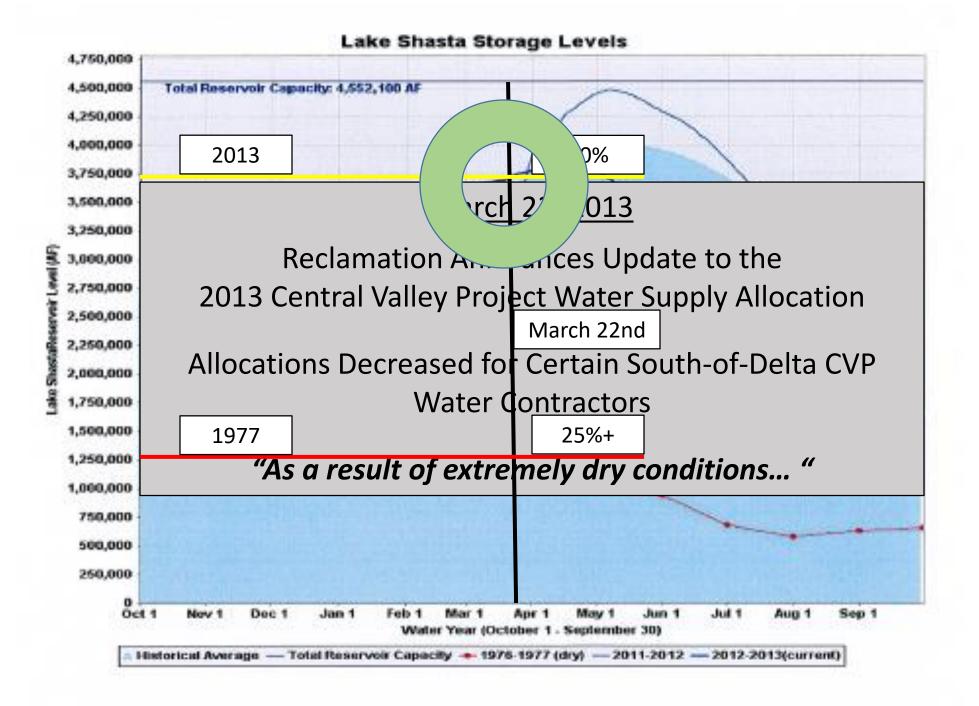




T. Boardman, SLDMWA 5/10/2016











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 <u>focus more on cause and</u> <u>effect relationships</u>, 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."

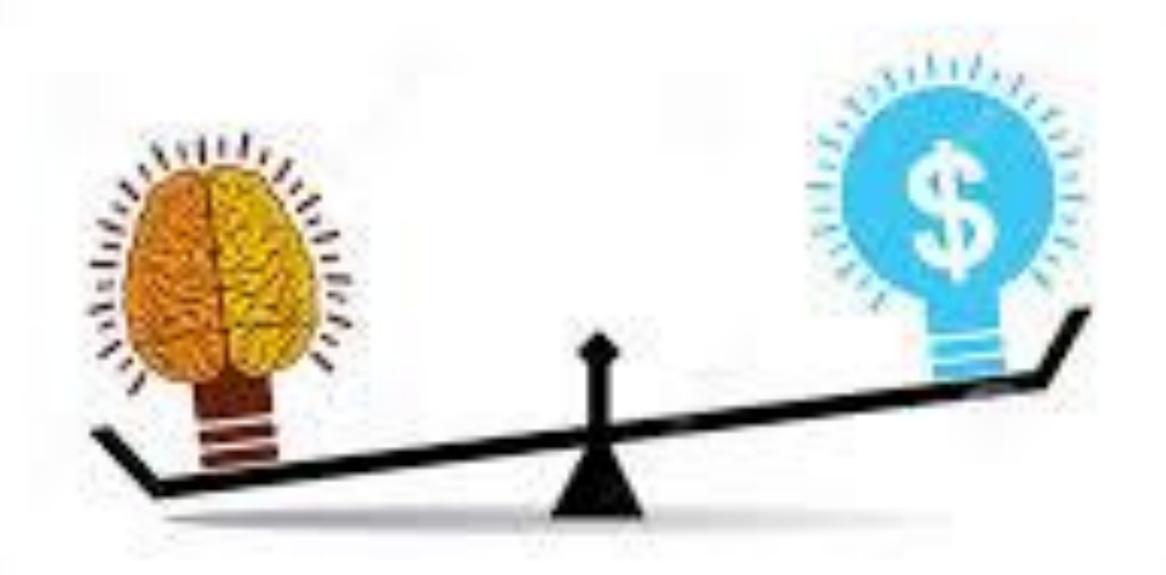
2009 Delta Reform Act and Plan

- 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)



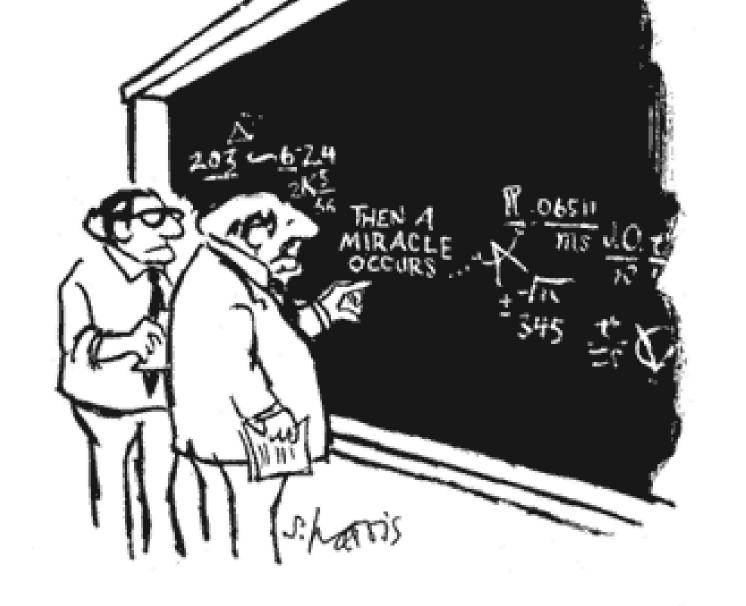
FAILURE IS SIMPLY THE OPPORTUNITY TO BEGIN AGAIN, THIS TIME MORE INTELLIGENTLY.

"



Key Improvements Going Forward:

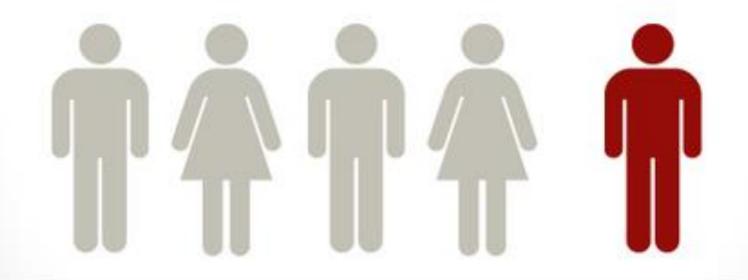
- Evaluate the current regulatory regime;
- Integrate scientific efforts;
- Enhance science connections;
- Improve monitoring, timely analysis of data, and synthesis of research;
- TRY SOMETHING DIFFERENT!



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



4 IN 5 AMERICANS SUPPORT RAISING THE FEDERAL MINIMUM WAGE TO \$10.10 AN HOUR



NOW IT'S TIME FOR CONGRESS TO ACT.



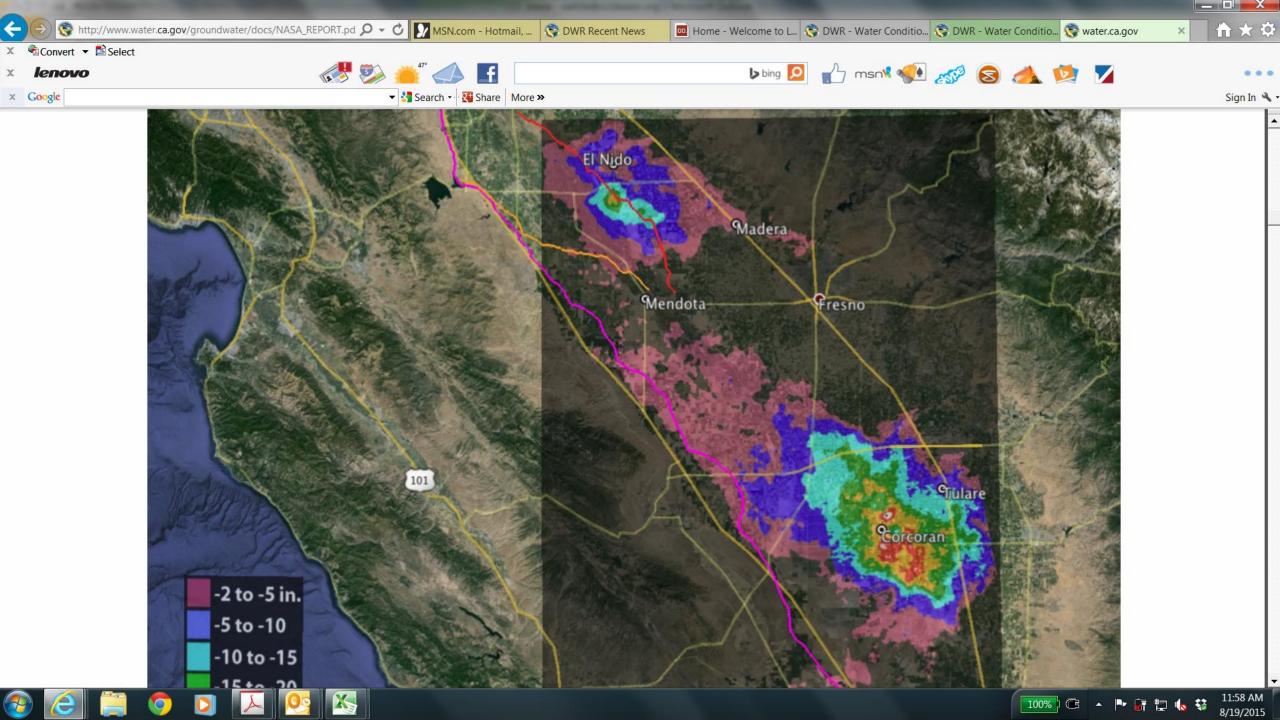












Thank you for this opportunity

Contact Information

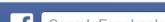
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Delta Smelt

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