



# California Water Service

May 2, 2018

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Quality. Service. Value.



## Tri-Valley Water 101”

[trivalleydrought.org](http://trivalleydrought.org)



# Where does our water come from?



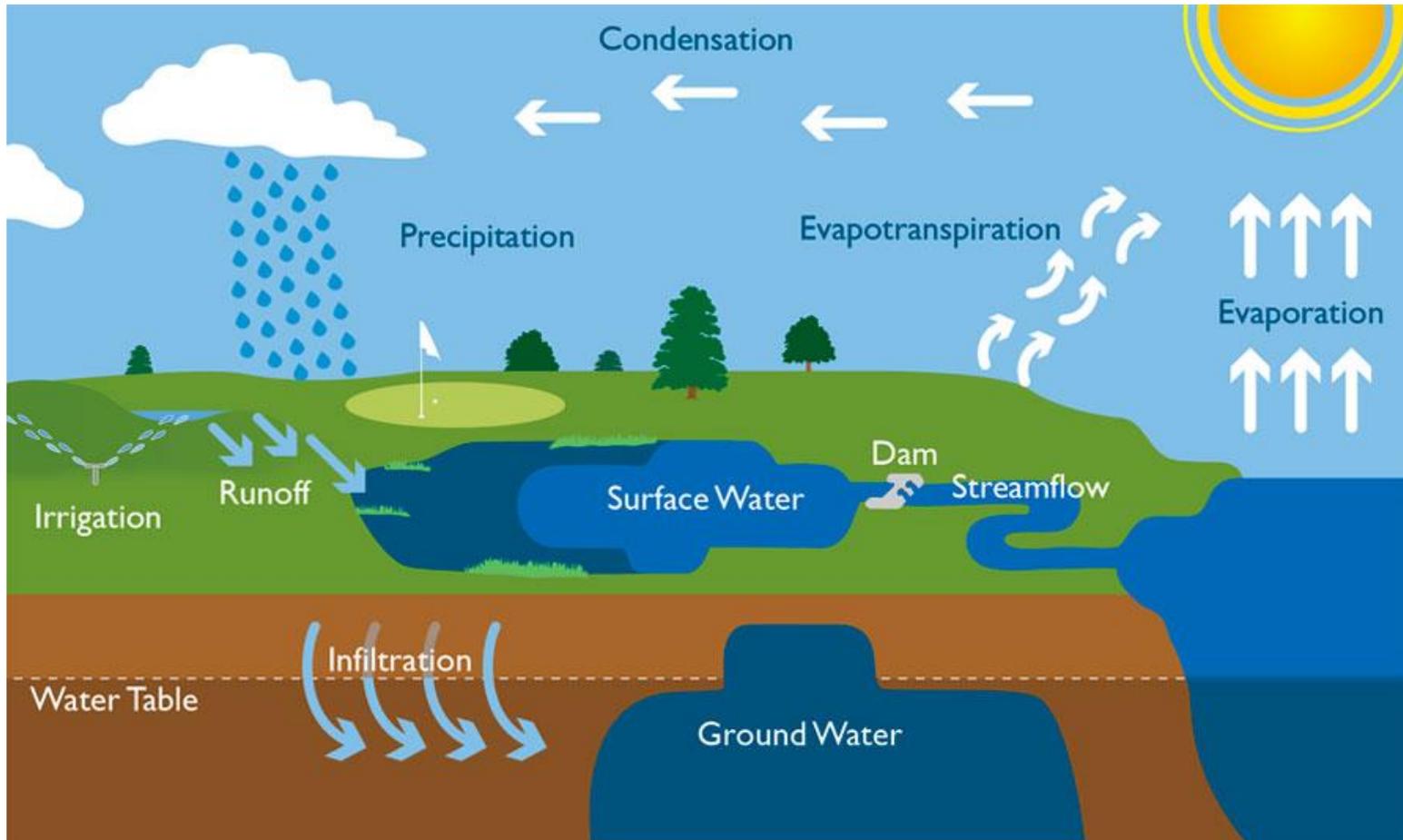
80% starts as snowmelt from the Feather River watershed on the western slopes of the Sierra Nevada...

# 10% is from local watershed, stored in Lake Del Valle

(shown during the drought in May 2015)



# And 10% from groundwater



# Who delivers it to us?

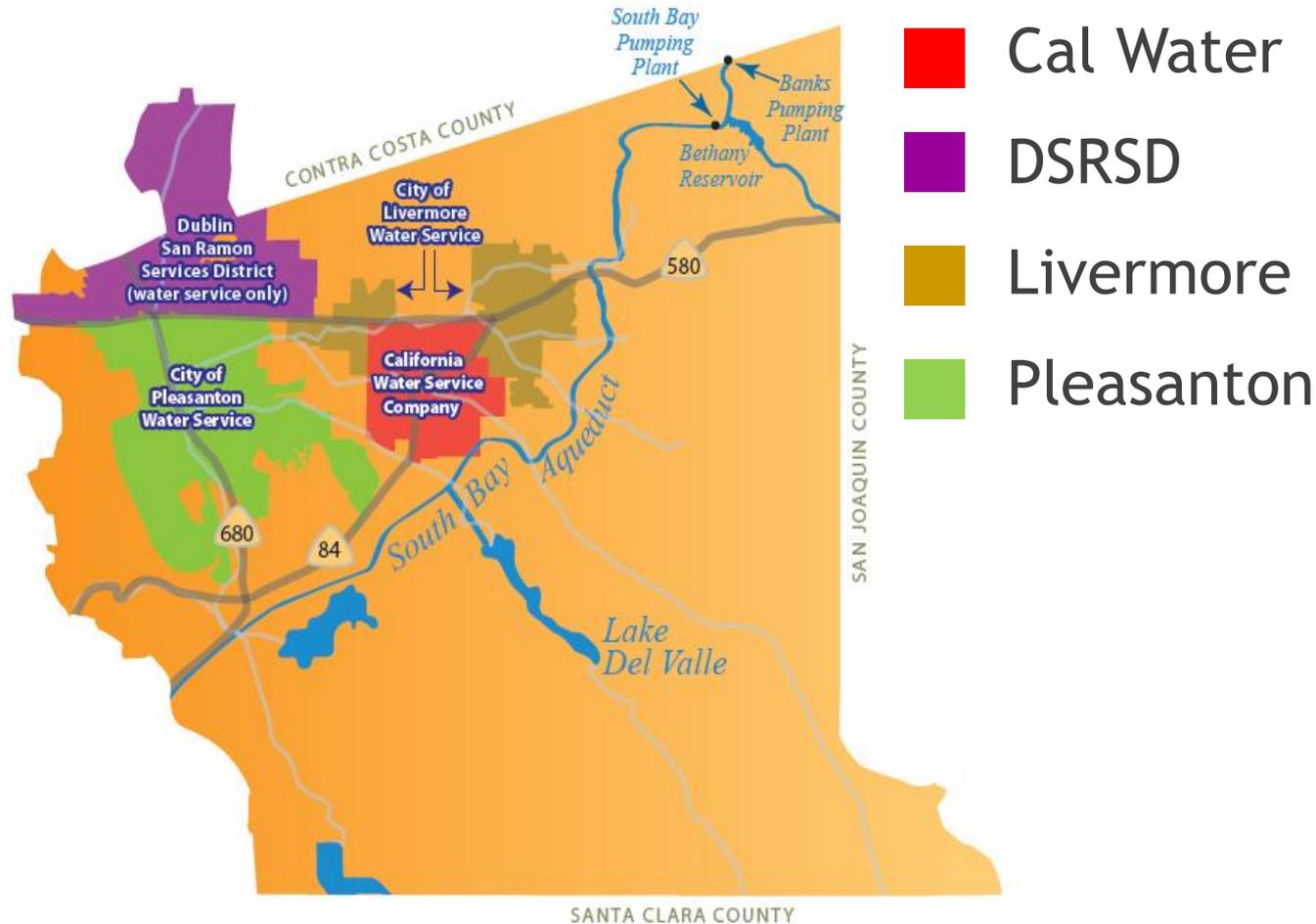
State Water Project (SWP) collects, stores, and delivers water to our wholesaler, Zone 7 Water Agency  
SWP built to deliver 4.2 million acre feet annually

SWP sells to 29 public agencies

SWP provides drinking water for 25 million Californians and irrigation water for 750,000 acres of farmland



# Zone 7 Water Agency treats the water and sells it to four water retailers and a few ranchers and farmers



# How does the water naturally get to us?

Feather River watershed flows into Lake Oroville



# Water is stored behind the Oroville Dam



# Oroville Dam releases water back into the Feather River...



# Feather River blends with the Sacramento River



# Water flows into the Sacramento-San Joaquin Delta...

... an environmentally sensitive area



# Overview of the Delta

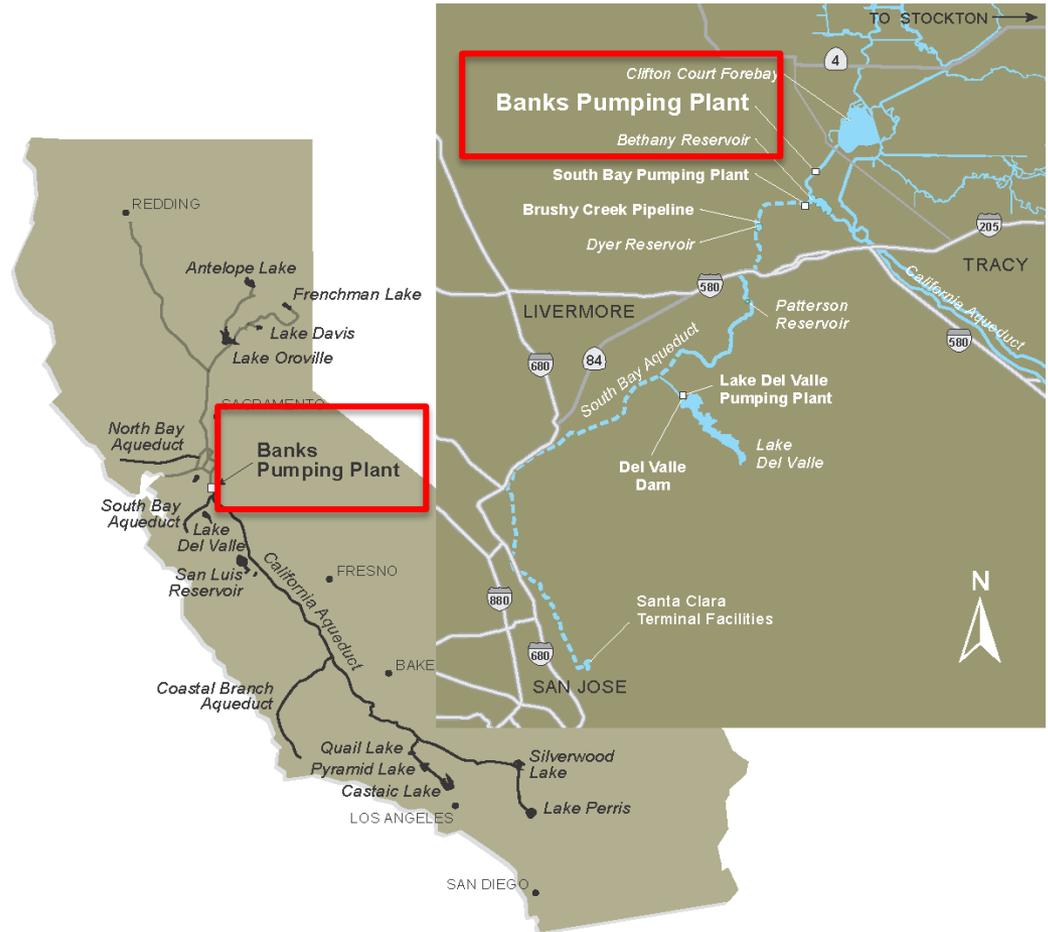
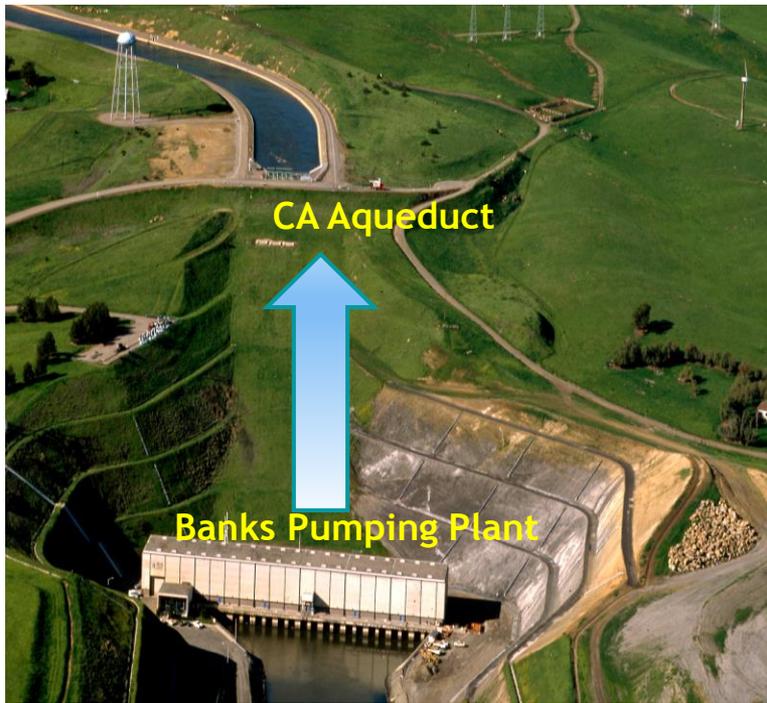




**Water flows to Clifton Court Forebay**



# The Harvey O. Banks Pumping Plant lifts water up into the California Aqueduct



# Water flows to Bethany Reservoir



South Bay Aqueduct



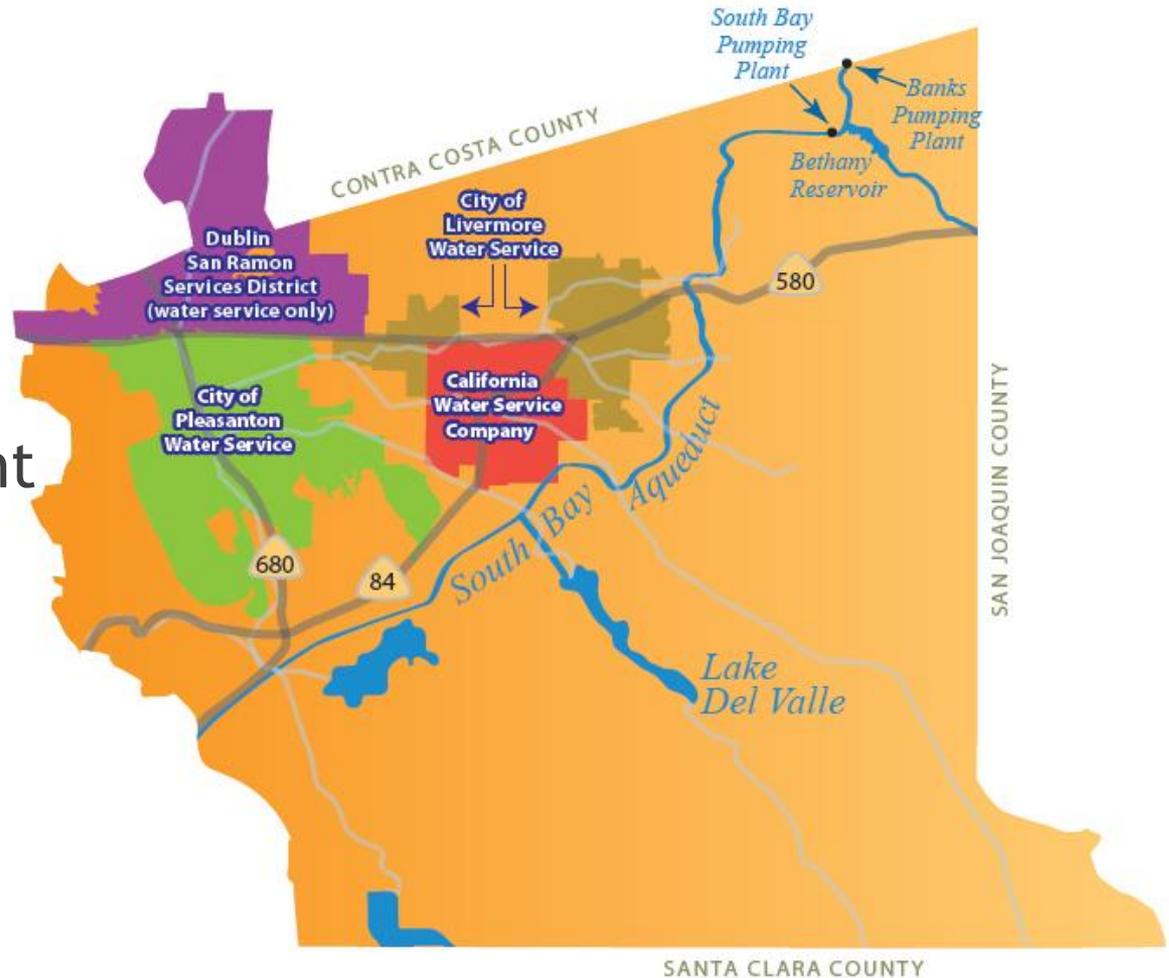
# Here the water splits

- ▶ 222,619 AFA into the South Bay Aqueduct
  - 80,619 AFA to Zone 7 Water Agency
  - 42,000 AFA to Alameda County Water District
  - 100,000 AFA to Santa Clara Water District
- ▶ 3,977,381 AFA into California Aqueduct
  - San Joaquin Valley 30% of SWP
  - Southern California 66% of SWP



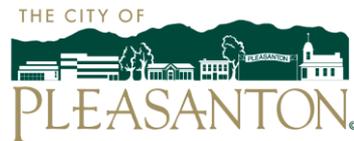
# Zone 7 treats the water...

- ▶ Patterson Pass Treatment Plant
- ▶ Del Valle Treatment Plant



# Zone 7 distributes water to its retailers

- ▶ California Water Service
- ▶ Dublin San Ramon Services District
- ▶ City of Livermore
- ▶ City of Pleasanton



A photograph showing several people's hands clinking clear glasses filled with water. The people are seated at a table with plates of food. The background is slightly blurred, focusing on the hands and glasses in the foreground.

**Retailers deliver the water to homes and businesses in their service areas!**



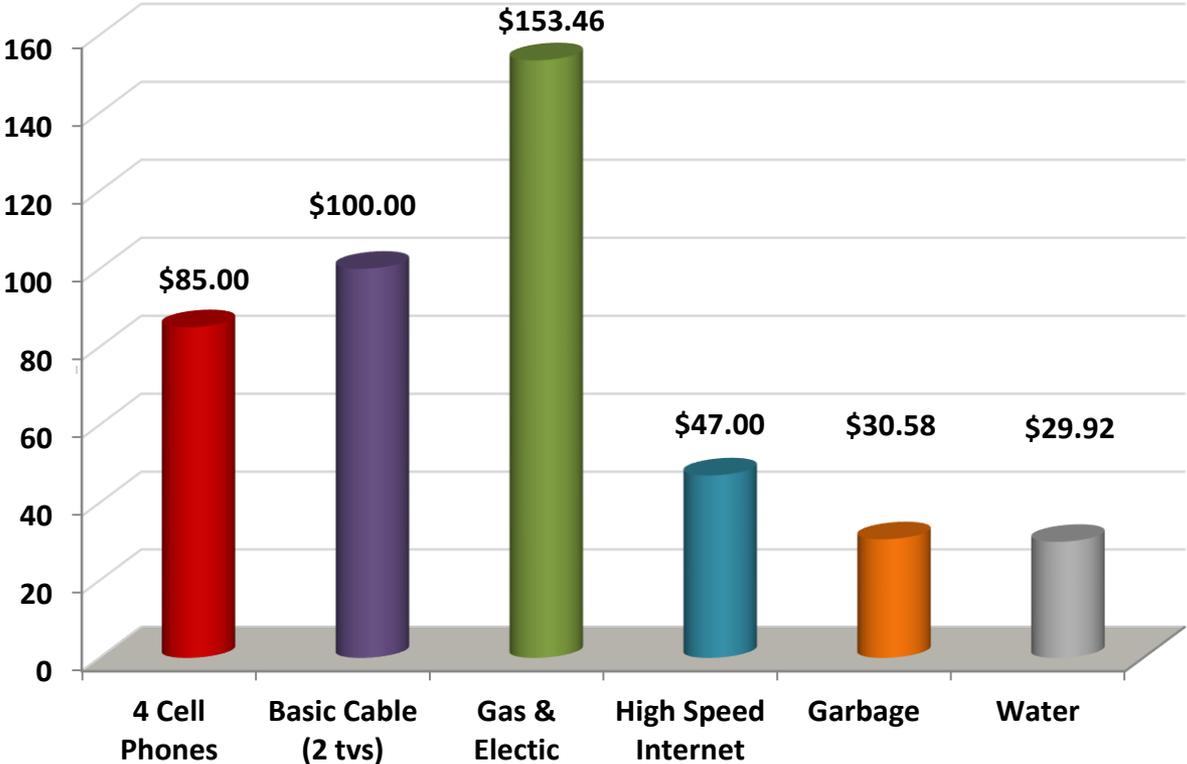
# What is the value of water?

- ▶ Quenches thirst (a must for life)
- ▶ Enhances our quality of life
- ▶ Grows our economy, food and wine
- ▶ Contributes to healthy ecosystems



# Monthly cost of water compared with other utilities

February 2017



# The cost of gallon of water is a “drop in the bucket” by

## THE BEST DEAL



A GALLON OF  
**TAP WATER**  
costs less than a penny

A GALLON OF



\$54.00

A GALLON OF



\$11.00  
(brewed coffee)

A GALLON OF



\$2.00 - \$10.00

A GALLON OF



\$3.82

A GALLON OF



\$3.51

Prices based on CA averages. The average cost for bottled water varies greatly based on brand and size.  
Prices as of June 2015



# What puts our water supply at risk? What are the challenges we face?

- ▶ Aging infrastructure - local, regional, state, federal
- ▶ Changing regulations, environmental protection
- ▶ Fishery protections limit pumping from the Delta
- ▶ Changes in water quality throughout year
- ▶ Delta fragility - levees at risk
- ▶ Unpredictable weather - patterns of past no longer reliable predictors of future



# Aging infrastructure

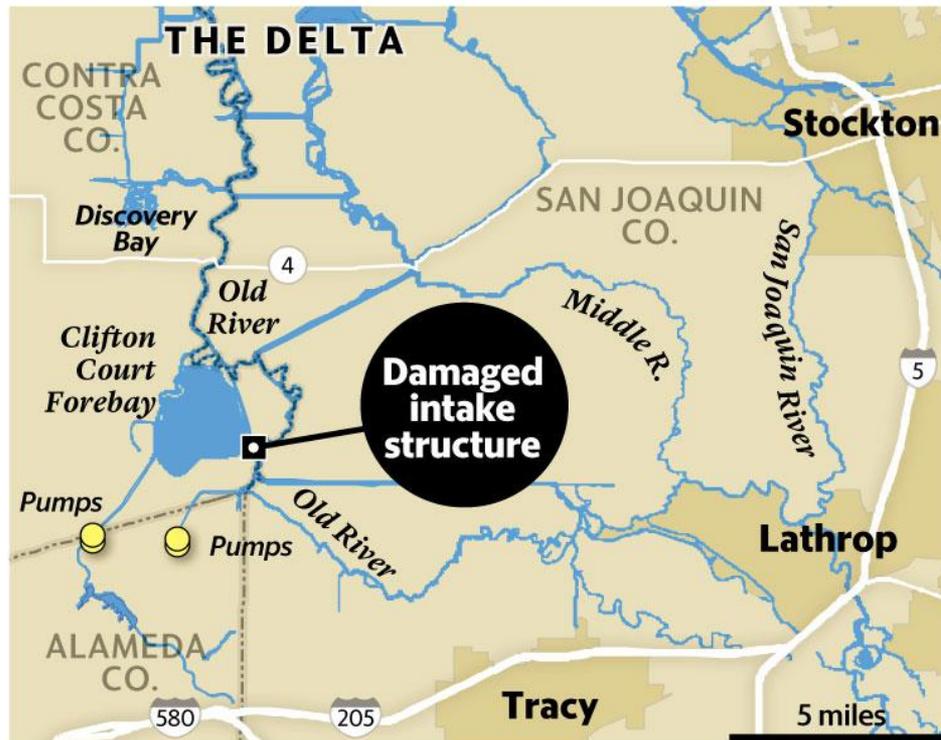
- ▶ Delta levees need repair



# Clifton Court intake damaged

## Damage to reservoir

*Clifton Court Forebay is the intake reservoir for the State Water Project's pumping station in the Delta. Officials say a crack formed in the reservoir's intake facility and the pumps will have to be shut down temporarily.*



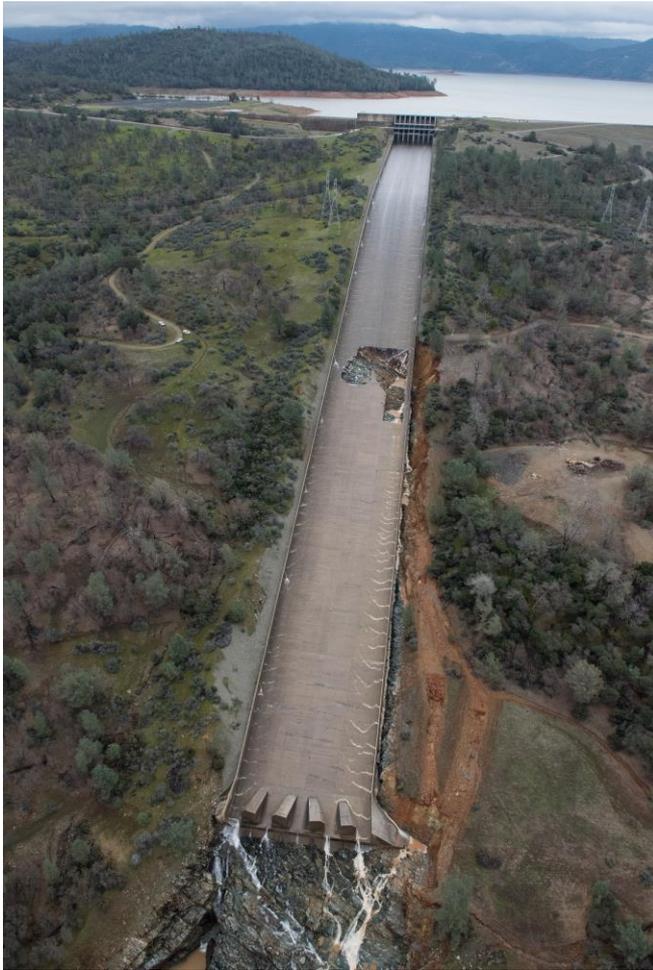
The Sacramento Bee



# Oroville Spillway



# Spillway Damaged February 2017



# Repairs Underway

August 2017: Crews continue to place leveling and structural concrete near the bottom of the lower chute, at the Lake Oroville flood control spillway site



# Changing regulations



# Changes in water quality throughout the year



# The fragile Delta



# Unpredictable Weather



Browns Ravine Cove on the south shore of Folsom Lake in good times ... and bad



# How can we strengthen our water supply?

- Invest appropriately in water supply infrastructure
  - Additional storage at Los Vaqueros
  - Additional storage at Sites Reservoir
- Invest in water sources with local control
  - Tri-Valley potable reuse project
  - Regional East Bay Desalination project



# What can YOU do to help the water supply situation?

- Use water wisely... replace some of your lawn with low water use plants, replace sprinklers with drip lines
- Support funding of water supply reliability and infrastructure projects
- Support *California Water Fix* (critical to California economy). Agriculture contributes \$100M to local economy and will suffer greatly without *California Water Fix*



# “California Water Fix”

- ▶ Delta conveyance solutions...
- ▶ Comprehensive statewide plan that benefits all Californians and achieves the co-equal goals...
- ▶ Balancing agricultural, urban and environmental needs is key to fair and sustainable management of water



# QUESTIONS?

