

# Jason Phillips

---

**Title:** CEO, Friant Water Authority

**Topic:** Friant Water Authority and the Central Valley Project





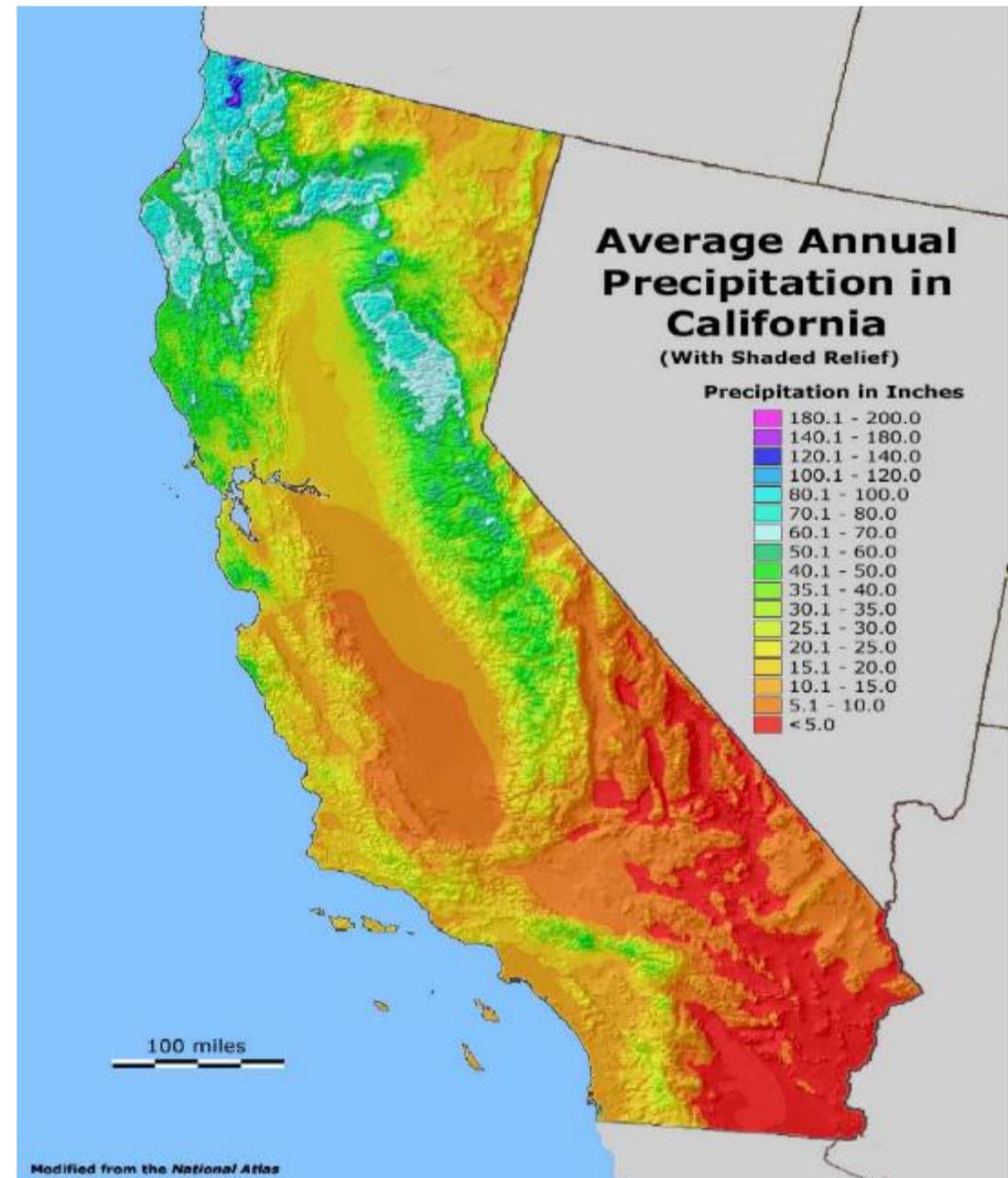
# Kaweah Sub-basin Grower Event

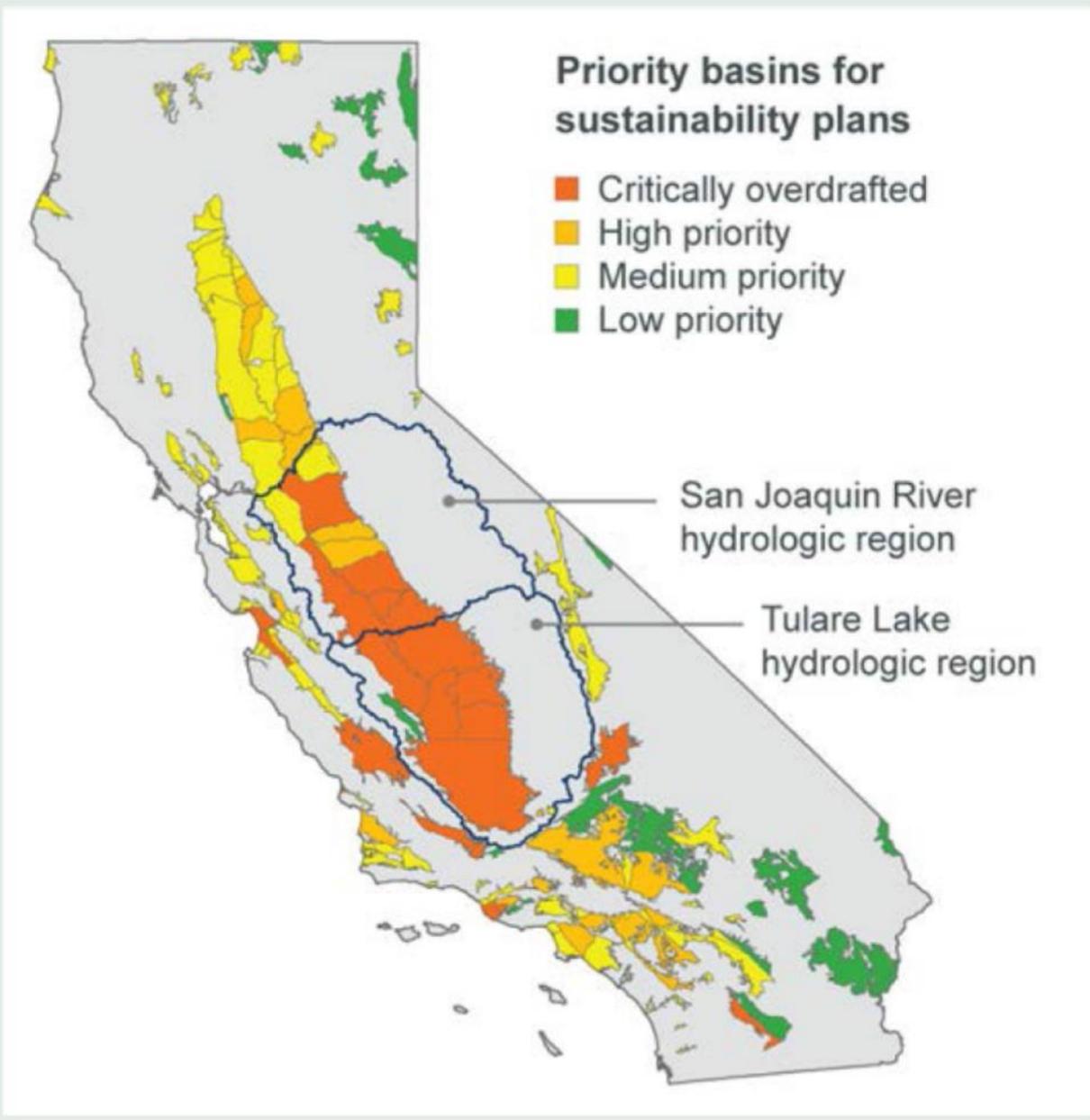
July 13, 2023



# California Water

- Most precipitation falls in the north; most water demand is in the south.
- The wet season is winter and spring; water is needed more in the summer.
- Precipitation varies from year to year; demands don't vary much.

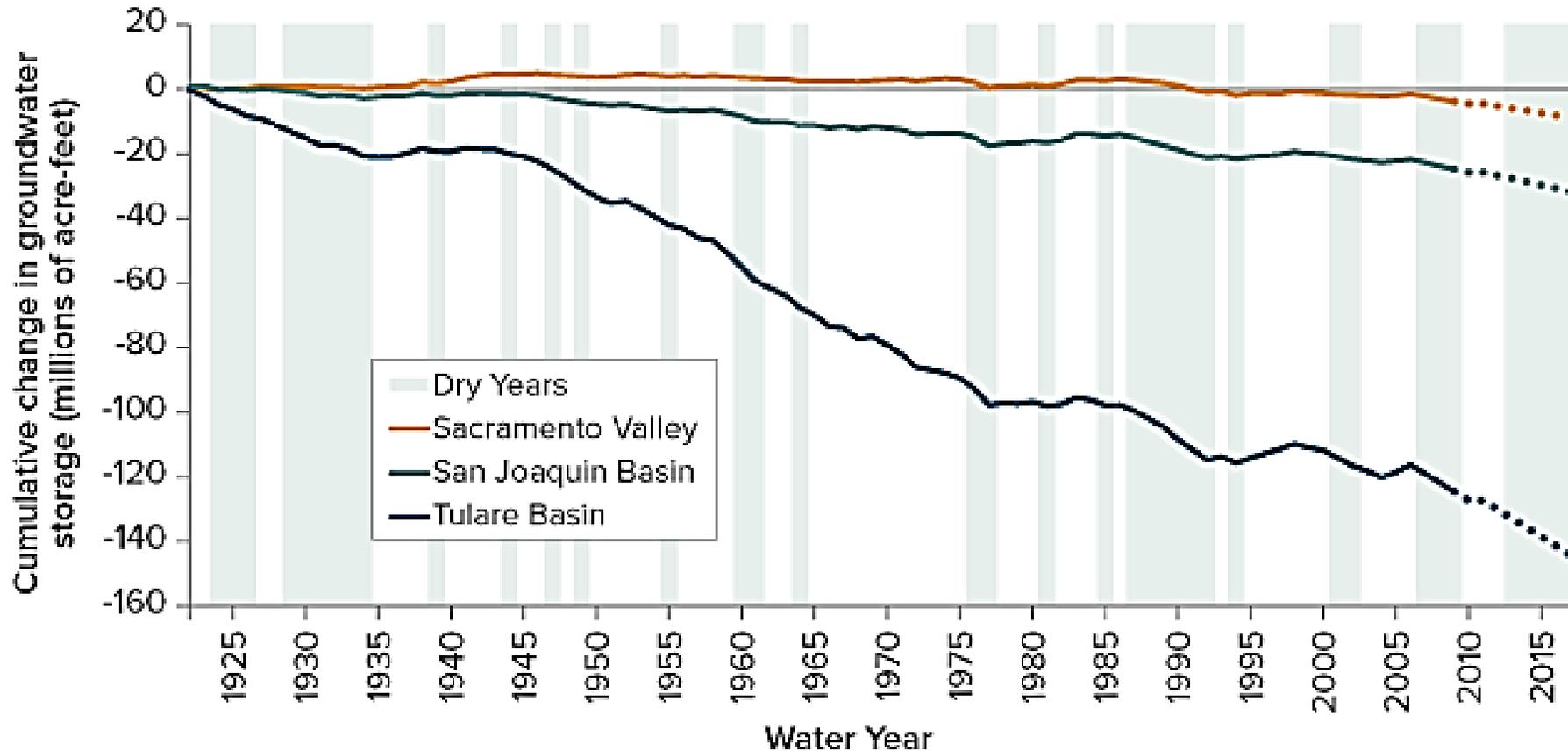




SOURCE: California Department of Water Resources.



# SUSTAINED REGIONAL GROUNDWATER OVERDRAFT



SOURCE: Historical data through 2009 from the California Department of Water Resources; PPIC estimates after 2009. E. Hanak et al.



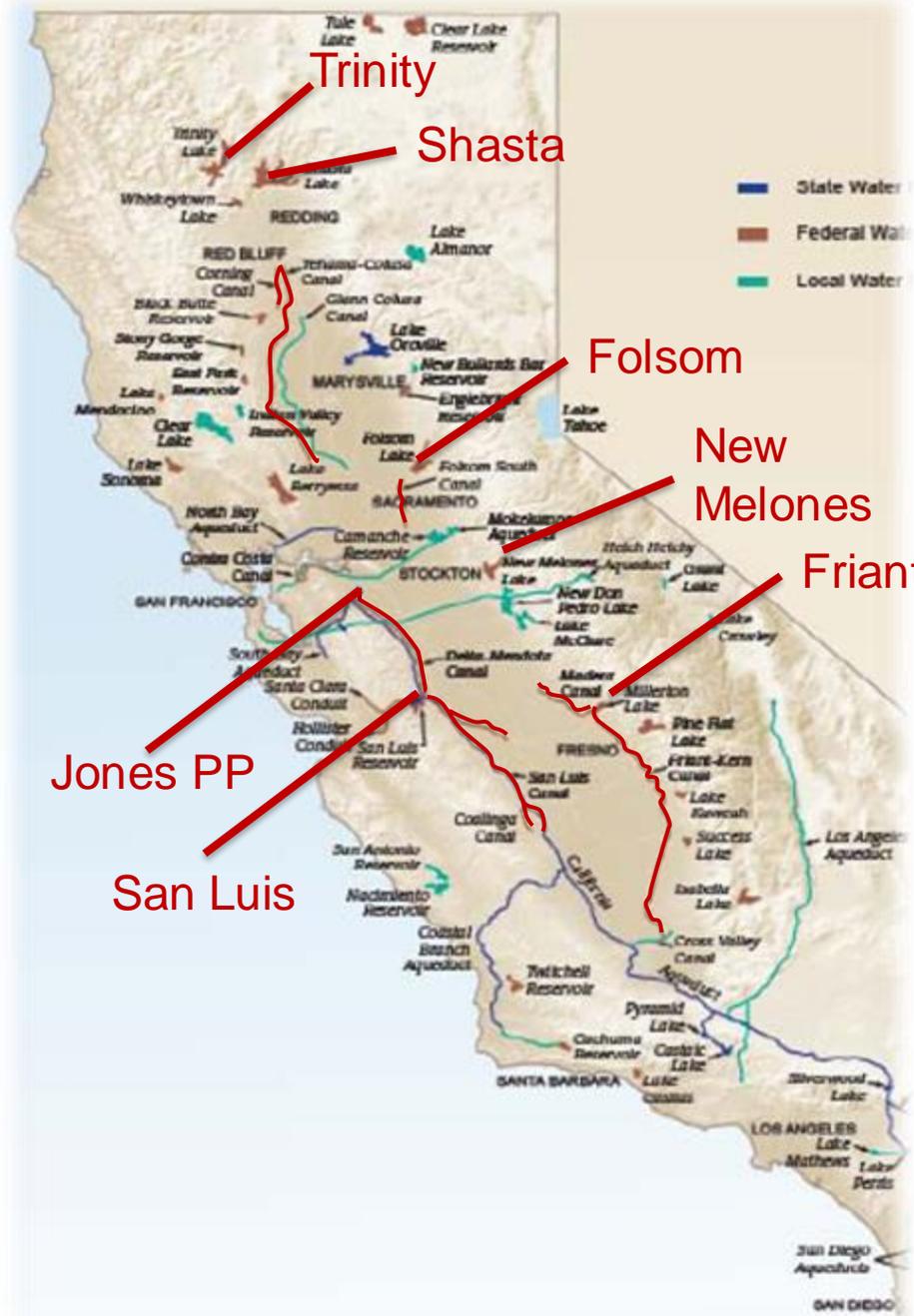
# LAND SUBSIDENCE

## IMPACTS OF GROUNDWATER OVERDRAFT



# Central Valley Project





# Major CVP Facilities

- 1940s – Construction of Shasta Dam, Friant Dam, Jones Pumping Plant, and Related Canals
- 1956 – Folsom Dam constructed
- 1961 – Trinity Division added to import water into the CVP from the Klamath.
- 1967 – San Luis Unit and State Water Project
- 1968 – San Felipe Unit
- 1979 – New Melones Dam



# FRIANT DAM







**Inflow**  
1,750 TAF/yr

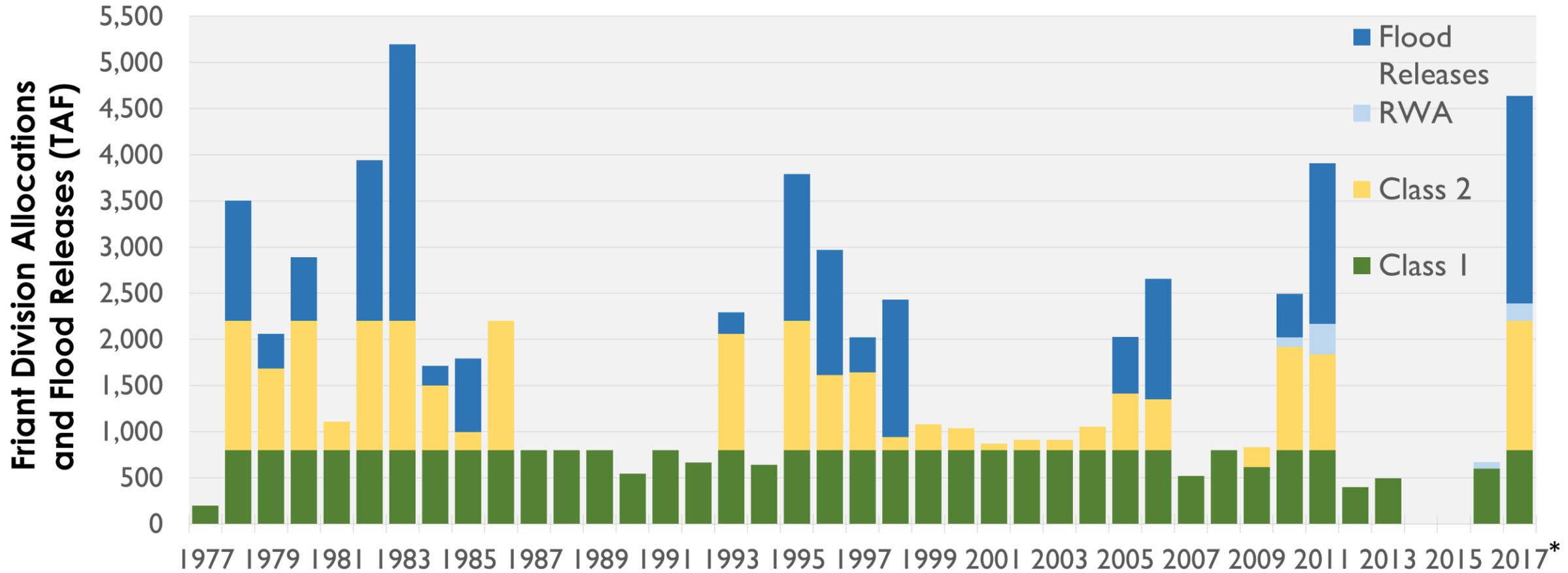
Millerton  
Lake  
520 TAF  
capacity

Average annual flood  
releases (prior to  
Settlement): 450 TAF/YR

Flood Releases To SJR reduced by  
Settlement. Flood releases exceed 100  
TAF in 25% of years and 500 TAF in 10%  
of years

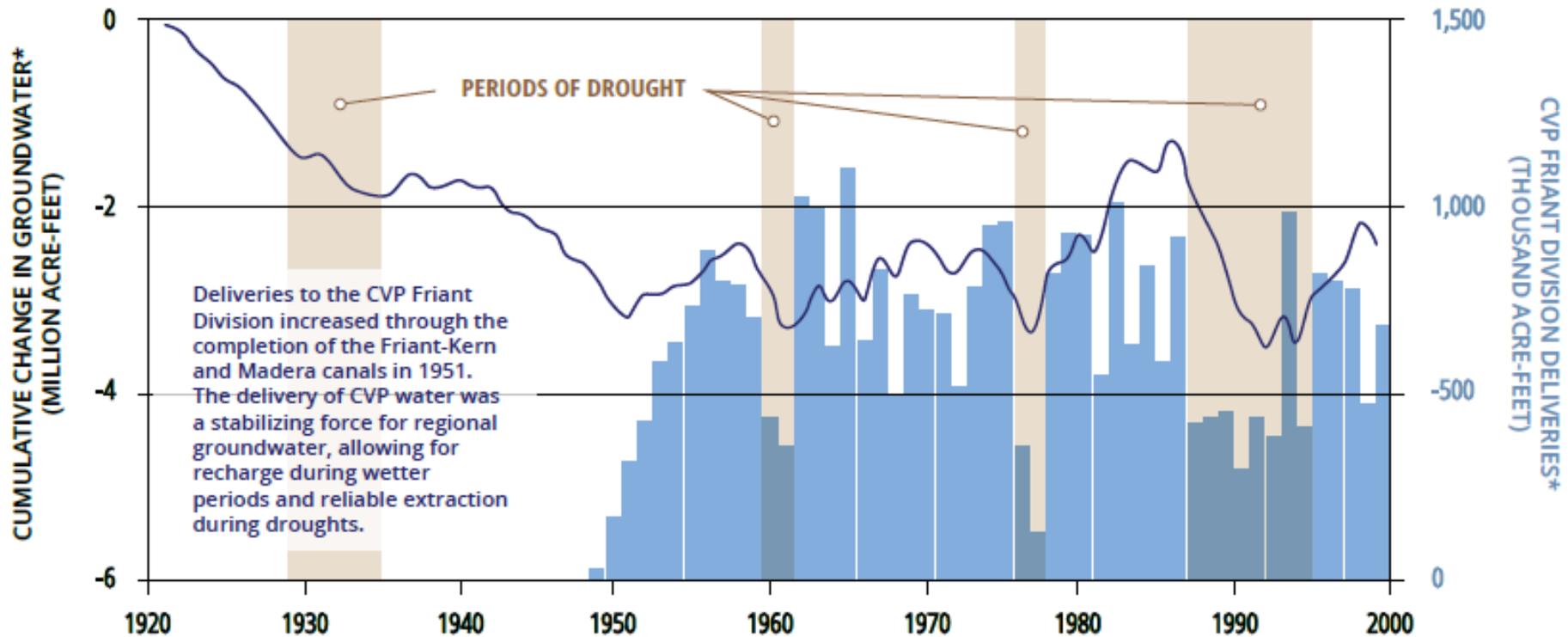
# FRIANT DELIVERIES

## Long-term average 1.2 MAF/YR

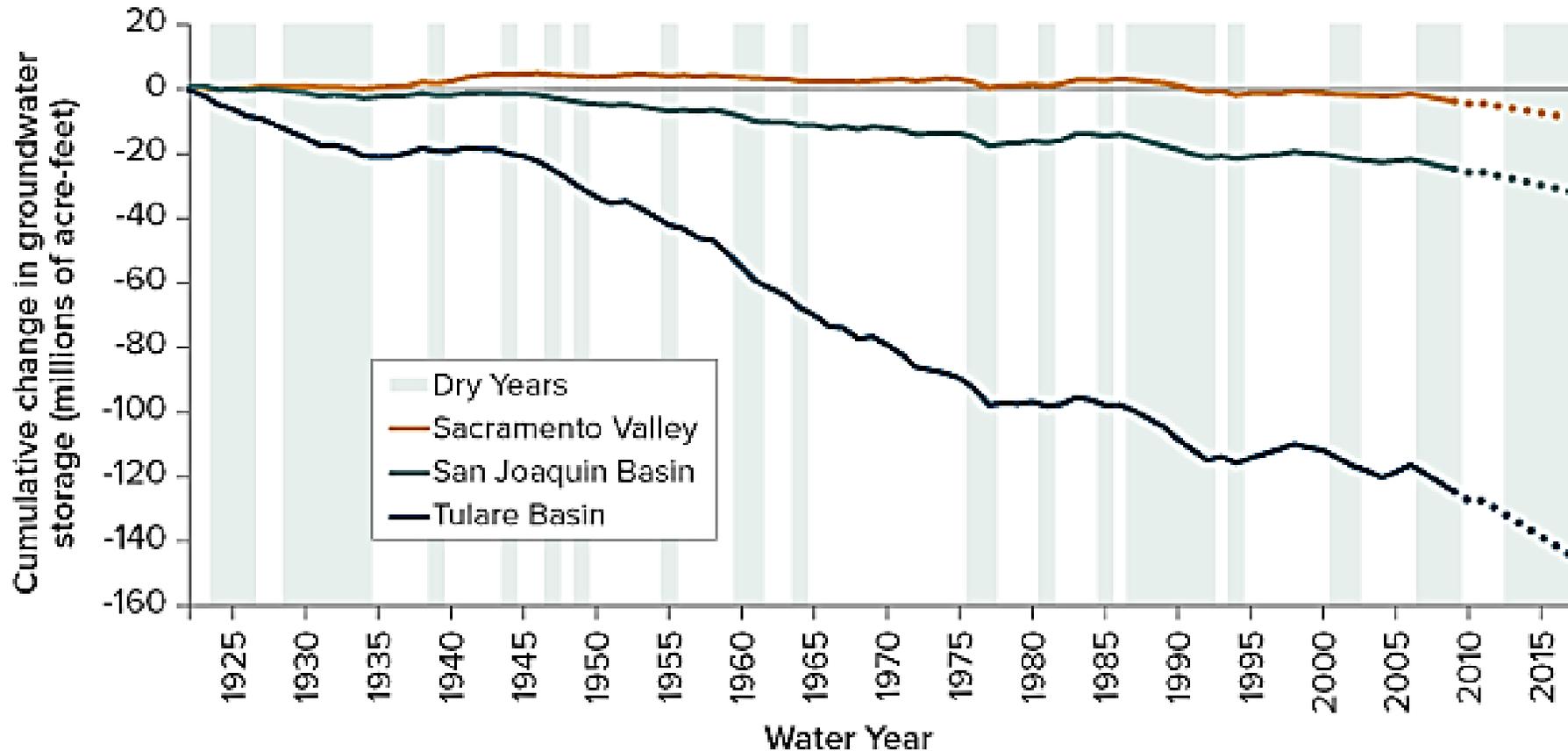




## WATER DELIVERIES TO THE FRIANT DIVISION KEPT REGIONAL GROUNDWATER STABLE THROUGH MULTIPLE CYCLES OF DROUGHT



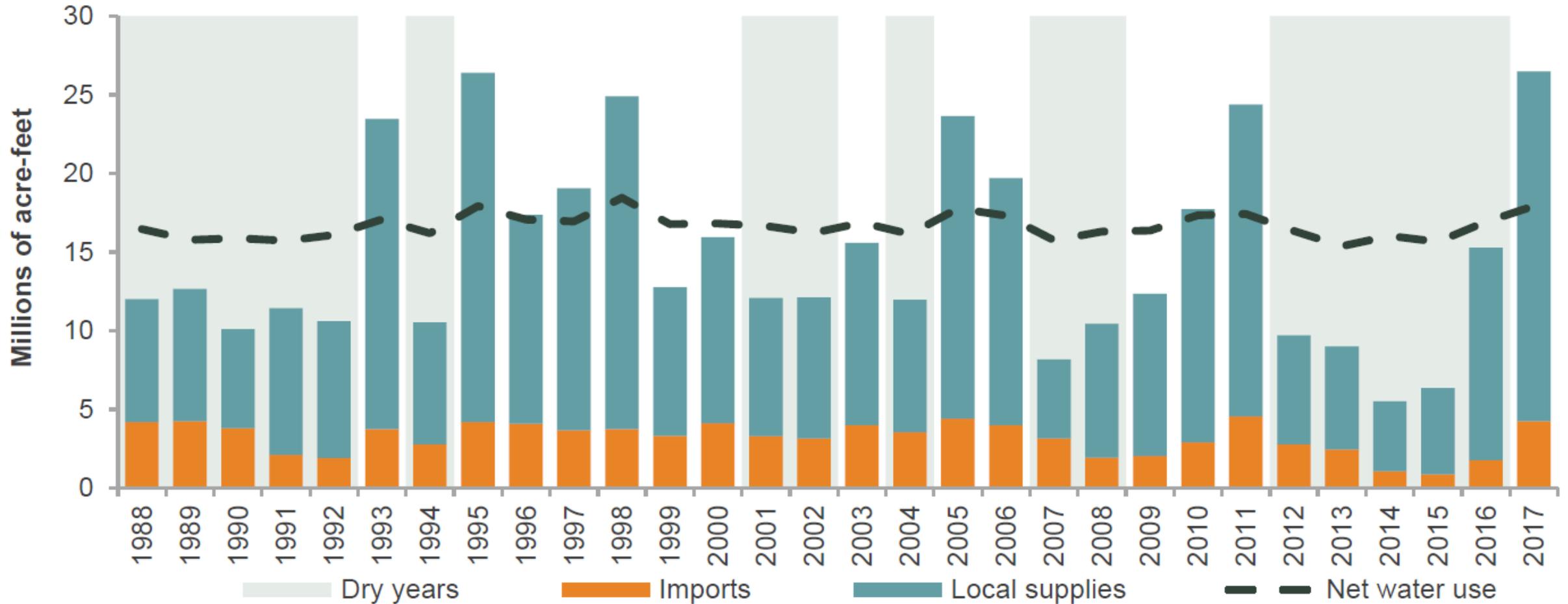
# SUSTAINED REGIONAL GROUNDWATER OVERDRAFT



SOURCE: Historical data through 2009 from the California Department of Water Resources; PPIC estimates after 2009. E. Hanak et al.



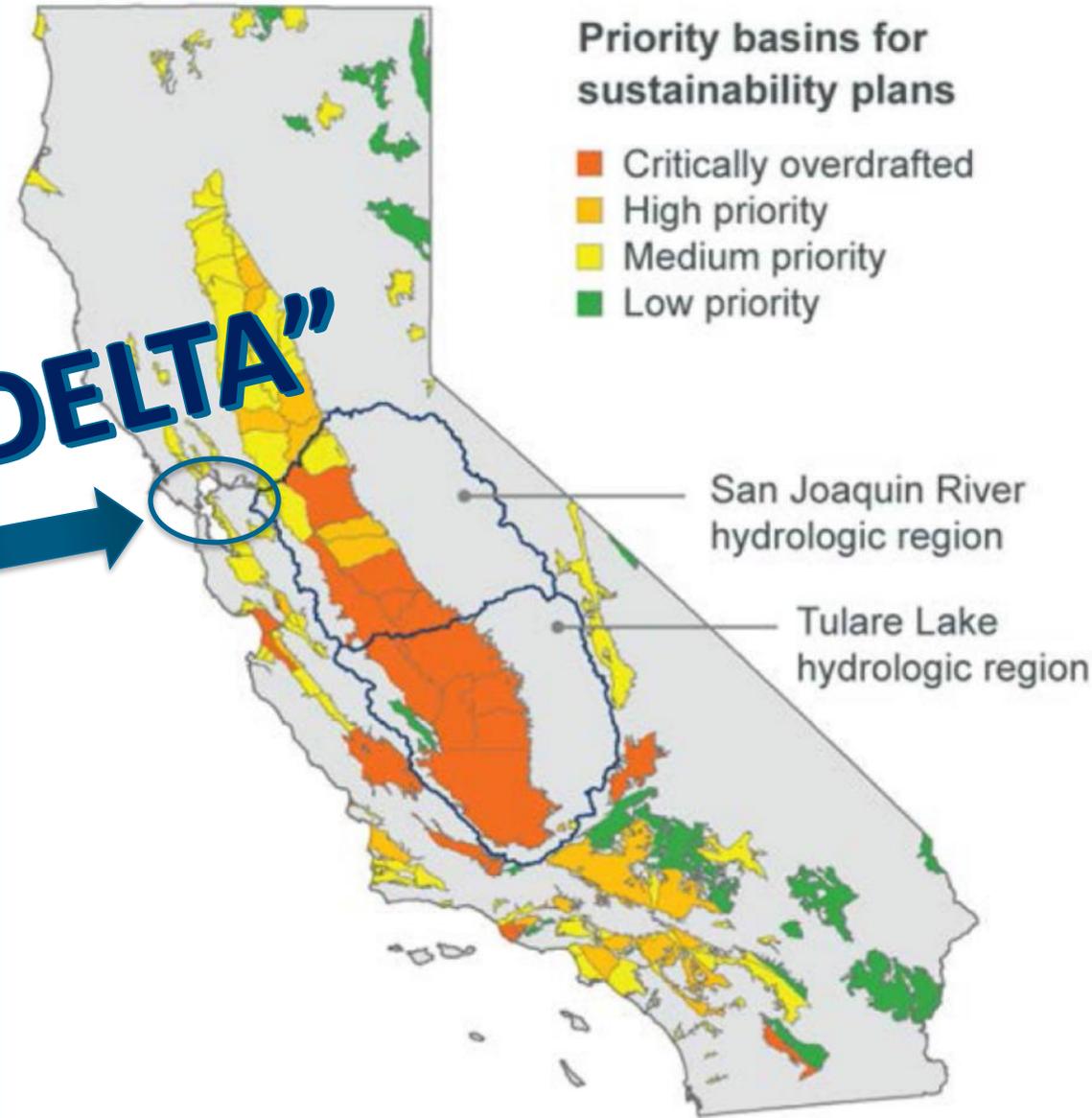
# San Joaquin Valley Agricultural Water Use 1988 - 2017



Source: *Water and the Future of the San Joaquin Valley*. PPIC, 2019



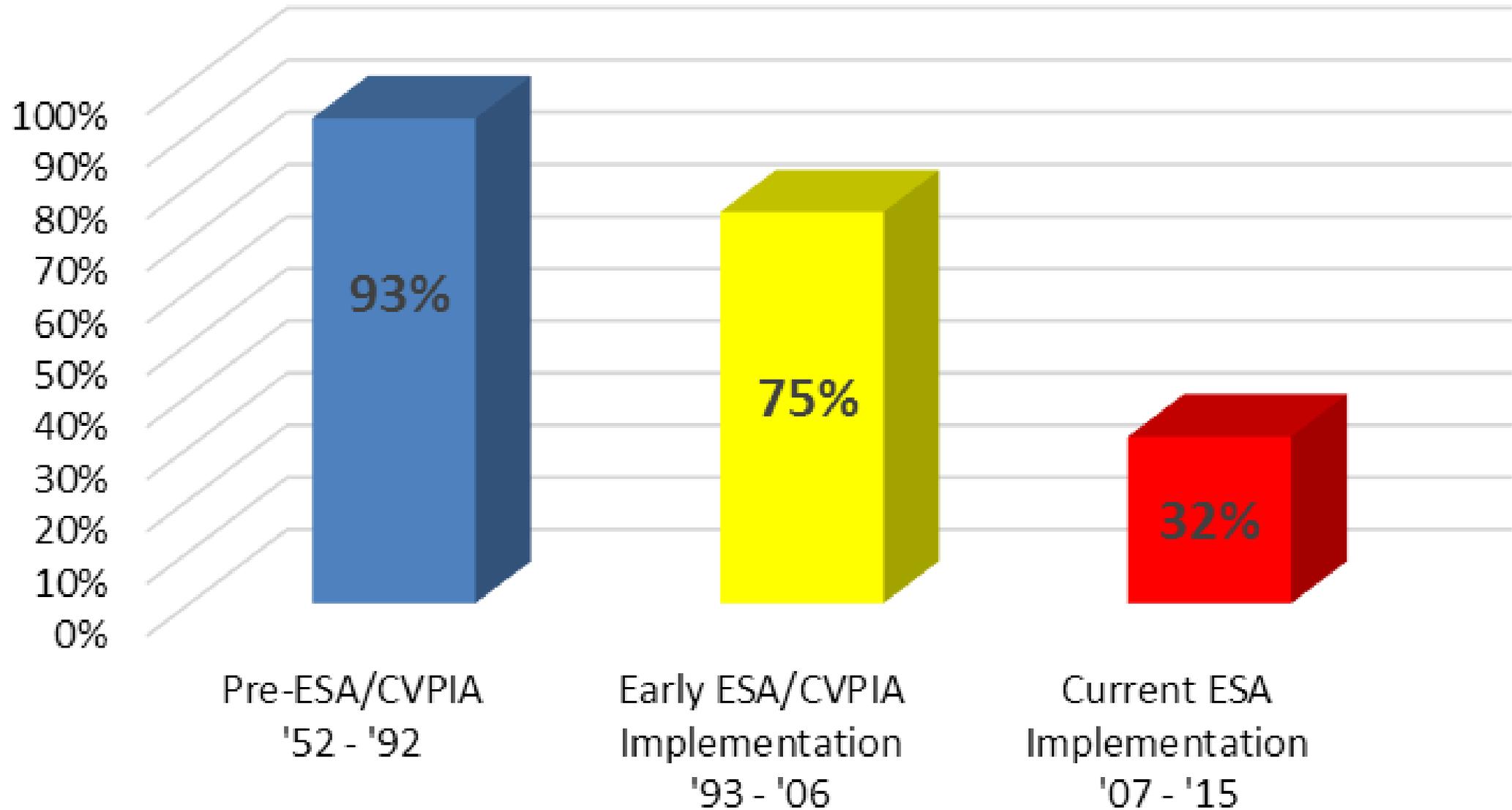
**“THE DELTA”**

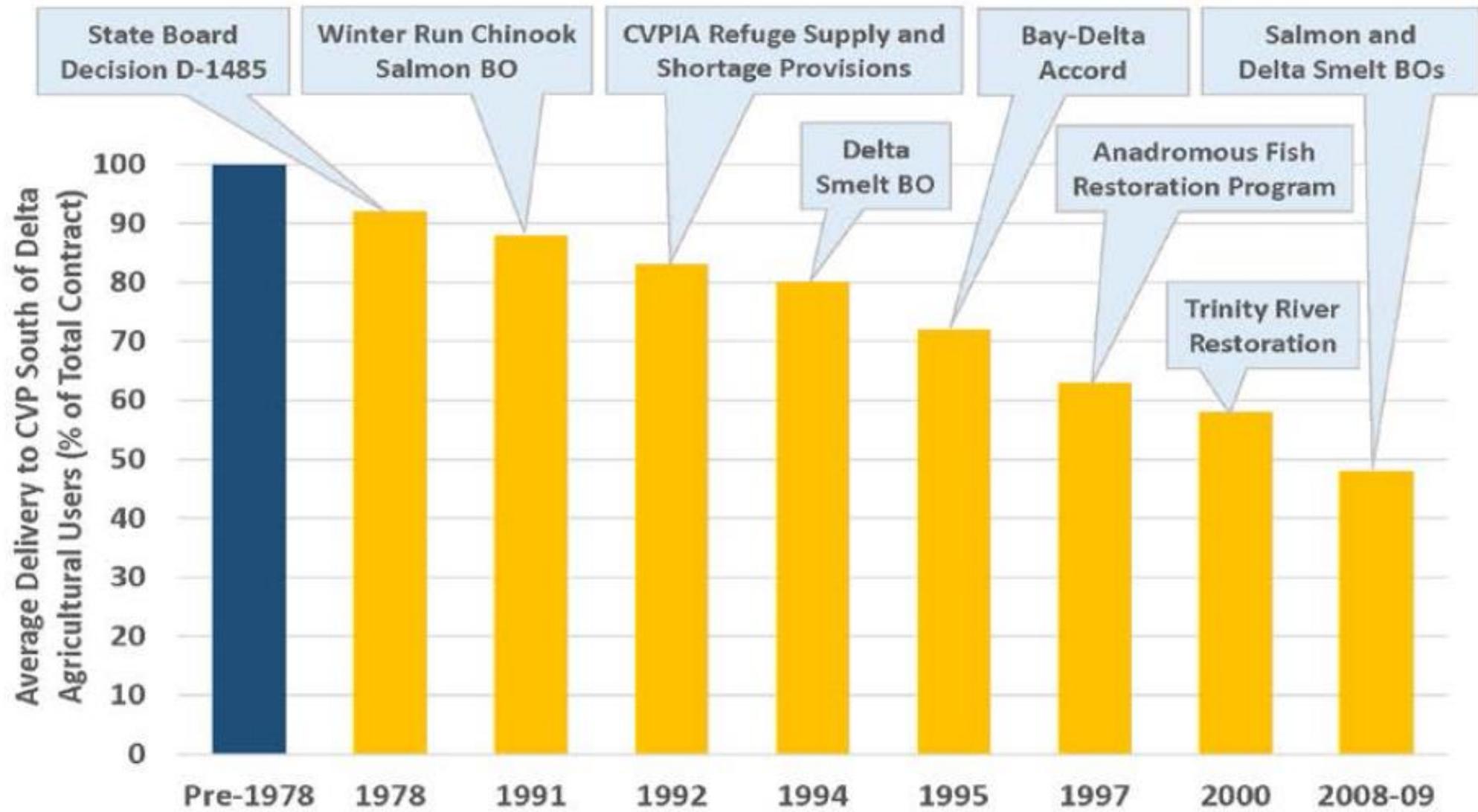


SOURCE: California Department of Water Resources.



# South of Delta CVP Ag Allocations by Era





Sources: Pre-1978, CVP Water Delivery Records; 1978 – 2000, San Luis Delta Mendota Water Authority, extracted from various California Department of Water Resources (DWR) and U.S. Department of the Interior, Bureau of Reclamation (Reclamation) CalSim-II benchmark studies; 2008/2009, Reclamation & DWR CalSim-II Benchmark BO Study.

**END**

