

# **Tribal Forum**

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# **CALFED Program**

Radisson Hotel Sacramento

February 26, 2004

# **Water Supply Reliability**

# Water Supply Reliability Goals and Objectives

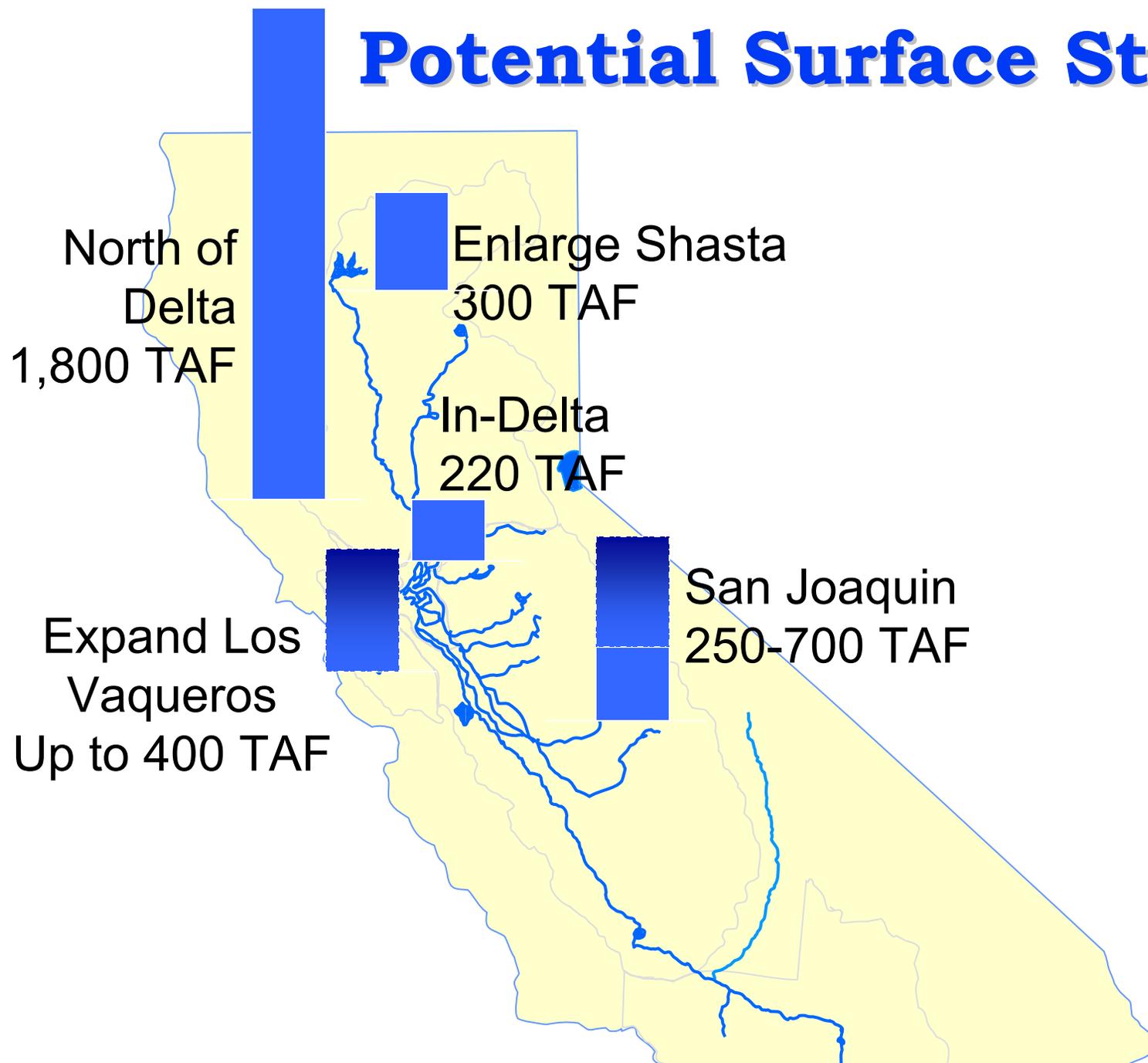
**Minimize gap between supply & demand**



**Diversified portfolio: optimize public investment & reduce risk**

# **Surface Storage**

# Potential Surface Storage



# **Surface Storage**

## **Potential Benefits**

- Increase water supply reliability
- Increase operational flexibility
- Increase in-stream flows
- Improve water quality

# **Surface Storage**

## **Shasta Lake Water Resources Investigation**

- Purpose:
- Interested Tribes:
- Status:
- Contact:

# **Surface Storage**

## **North of Delta Off-Stream Storage**

- Purpose:
- Interested Tribes:
- Status:
- Contact:

# **Surface Storage**

## **In-Delta Storage**

- Purpose:
- Interested Tribes:
- Status:
- Contact:

# **Surface Storage**

## **Los Vaqueros Expansion**

- Purpose:
- Interested Tribes:
- Status:
- Contact:

# **Surface Storage**

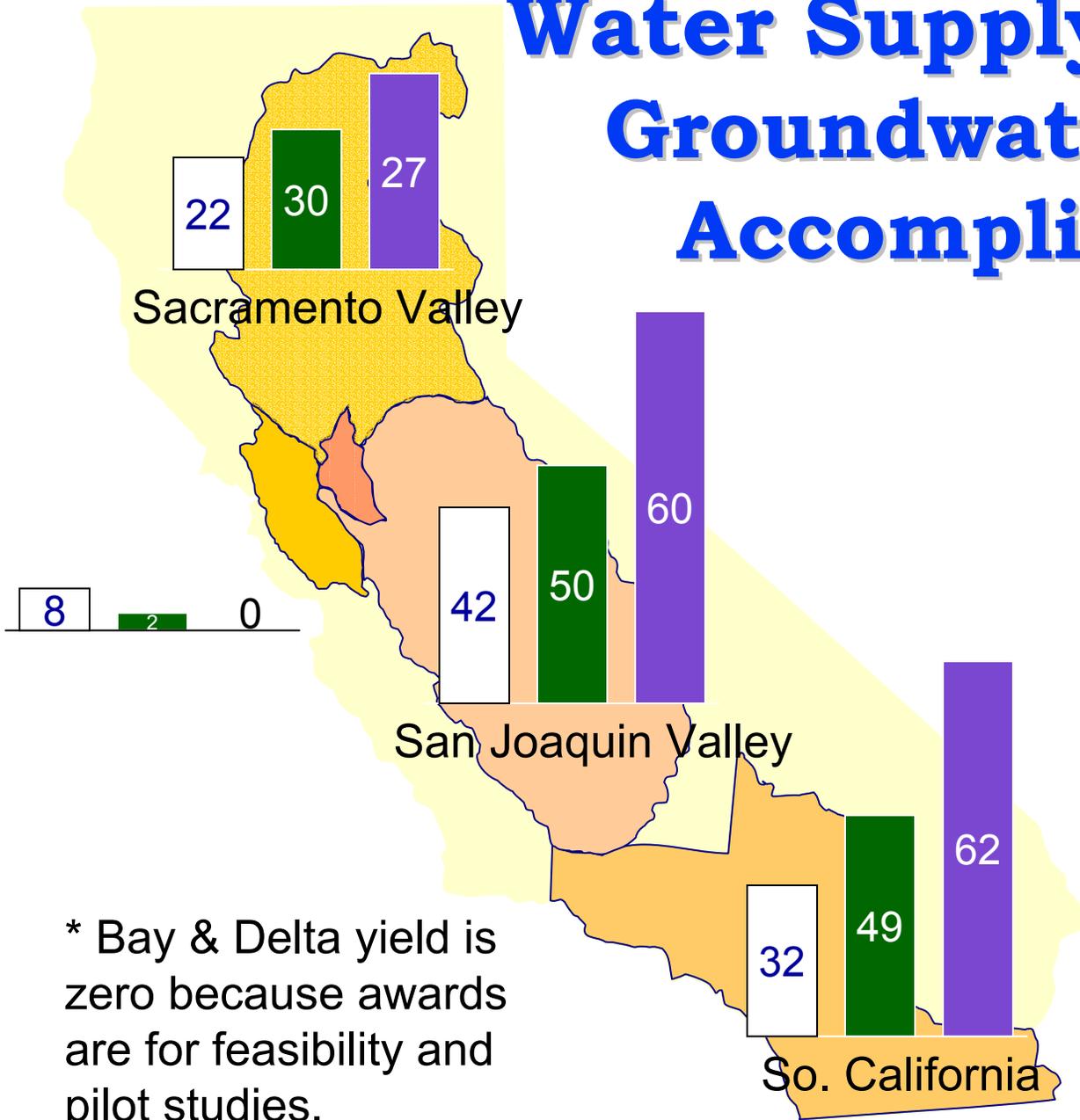
## **San Joaquin River Storage**

### **Investigation**

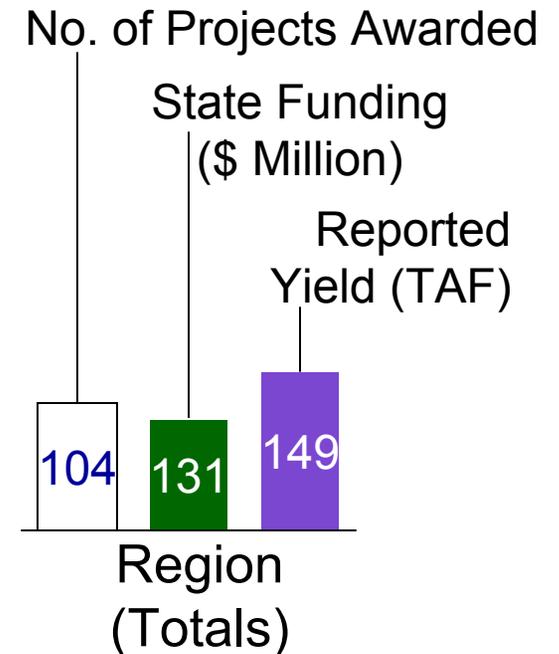
- Purpose:
- Interested Tribes:
- Status:
- Contact:

# **Groundwater**

# Water Supply Reliability Groundwater Storage Accomplishments



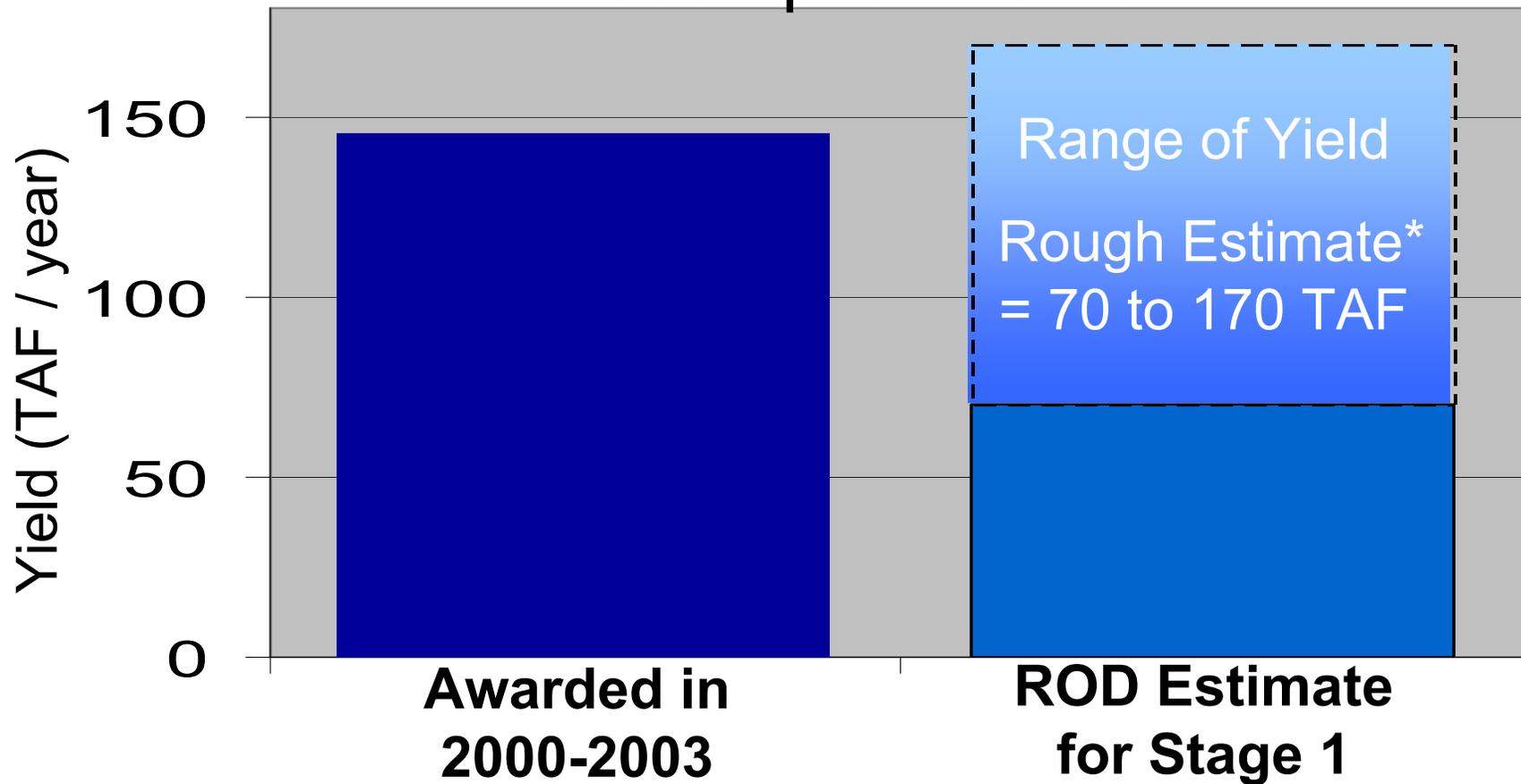
## Legend



\* Bay & Delta yield is zero because awards are for feasibility and pilot studies.

# Water Supply Reliability Groundwater Storage

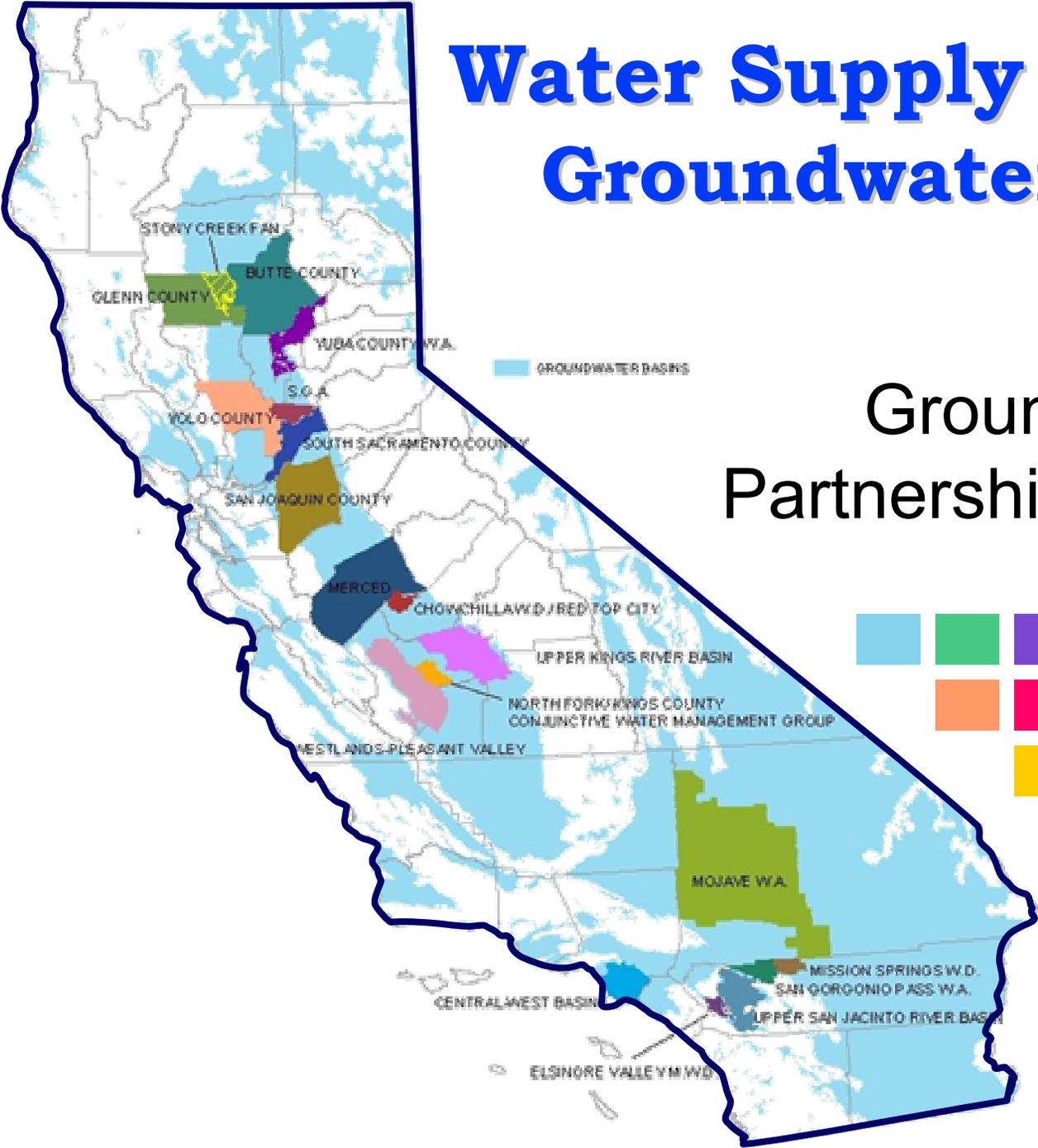
## Accomplishments



\* The ROD estimated 500 TAF to 1 MAF total GW Storage

# Water Supply Reliability Groundwater Storage

## Groundwater Partnerships & MOUS

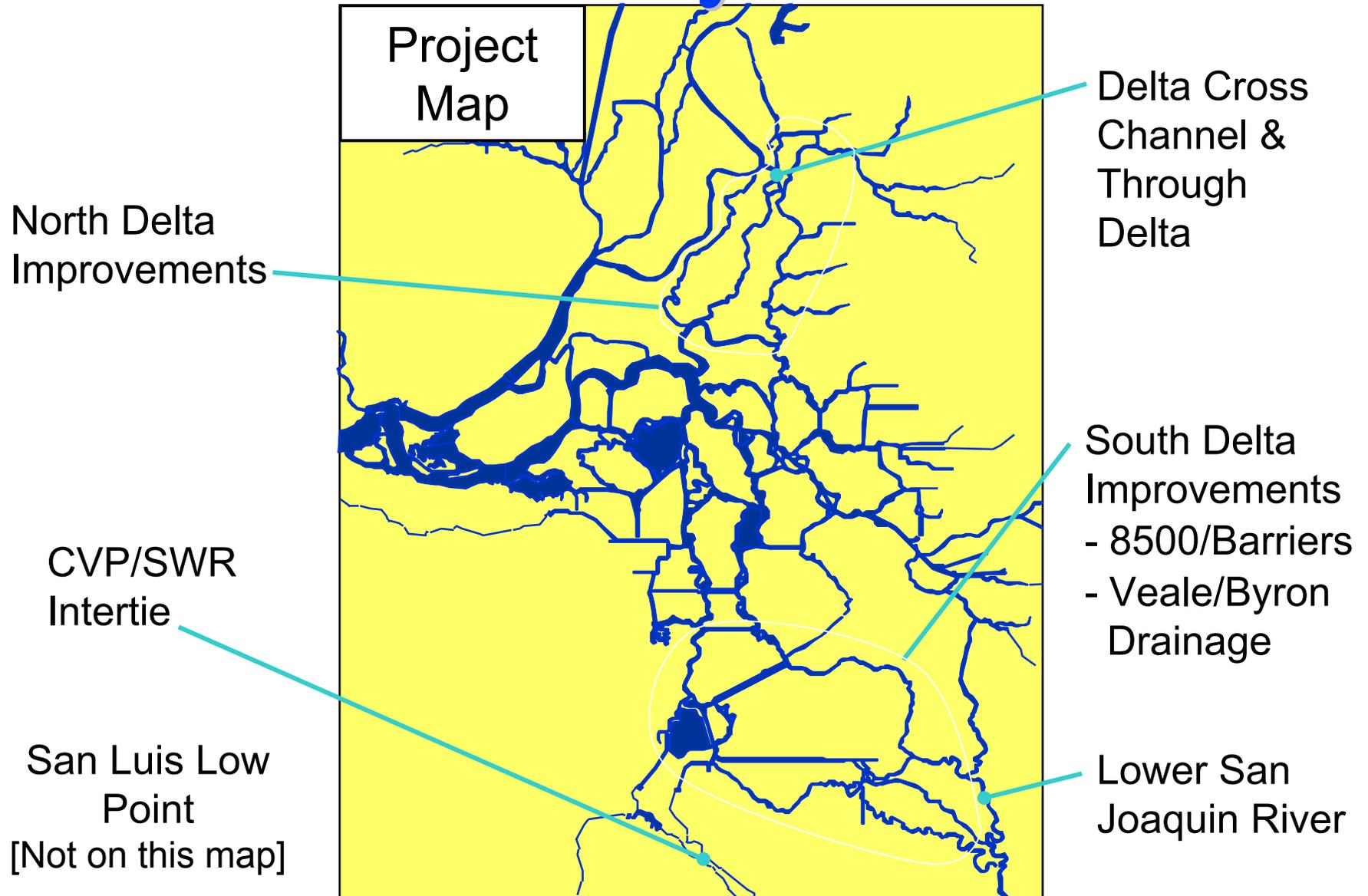


# Groundwater

- Purpose:
- Interested Tribes:
- Status:
- Contact:

# Conveyance

# Water Supply Reliability Conveyance



# **Conveyance**

## **CVP / SWP Intertie**

- Purpose:
- Interested Tribes:
- Status:
- Contact:

# **Conveyance**

## **South Delta Improvement Program**

- Purpose:
- Interested Tribes:
- Status:
- Contact:

# **Conveyance**

## **San Luis Reservoir Low Point Improvement**

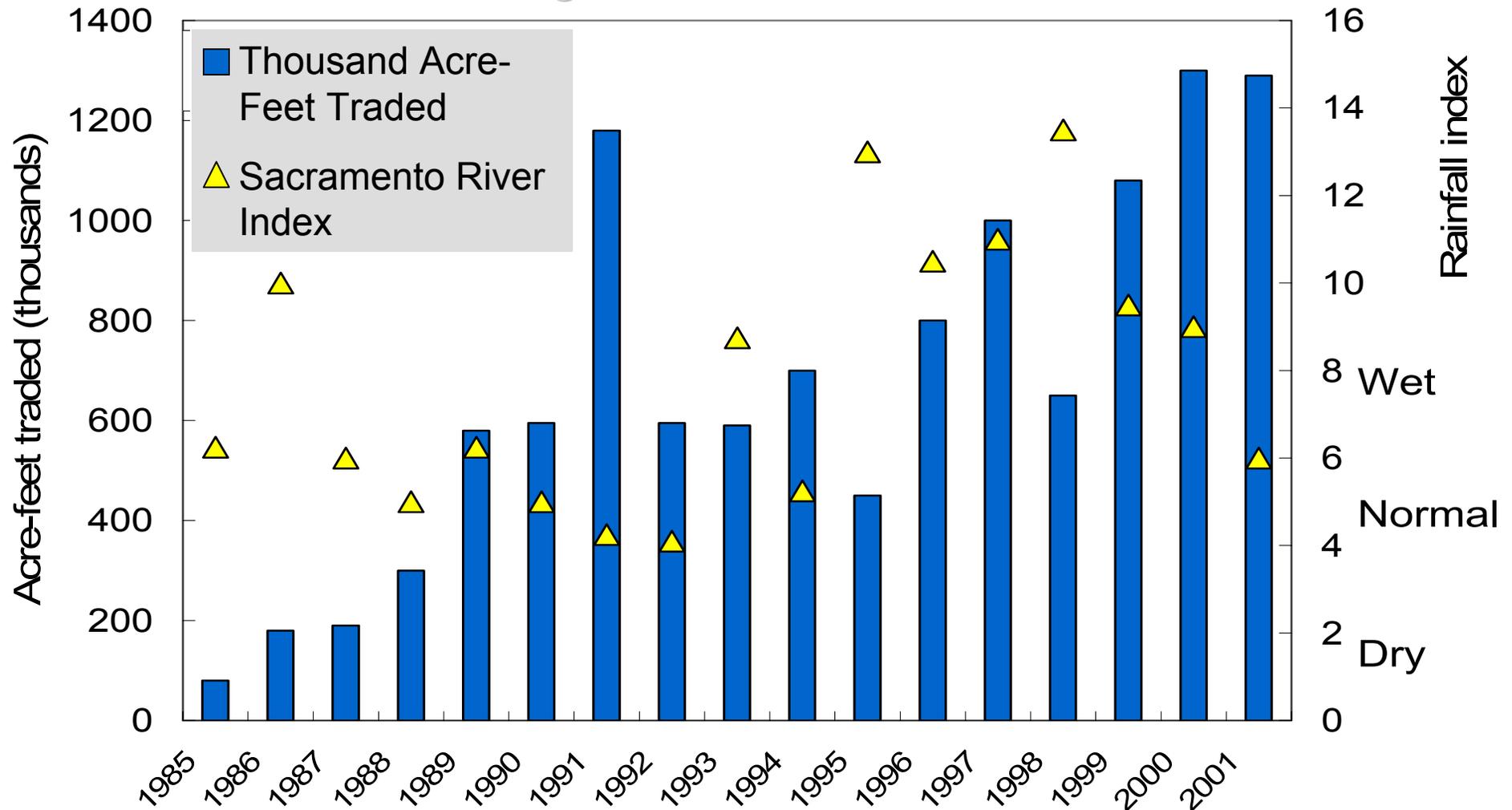
- Purpose:
- Interested Tribes:
- Status:
- Contact:

# **Water Transfers**

# Water Supply Reliability

## Water Transfers History

Short- and Long-Term Transfers Since 1985



# **Water Supply Reliability**

## **Water Transfers Accomplishments**

- Assisted in transfers:
  - 637 TAF in 2001 (374 TAF was EWA)
  - 442 TAF in 2002 (233 TAF was EWA)
  - 515 TAF in 2003 (277 TAF was EWA)
- “Carriage Water” technical review
- Defining transferable water Papers
- On-Tap website
- Third Party Impacts

# **Water Transfers**

- Purpose:
- Interested Tribes:
- Status:
- Contact:

# **Environmental Water Account**

# **Water Supply Reliability**

## **Environmental Water Account**

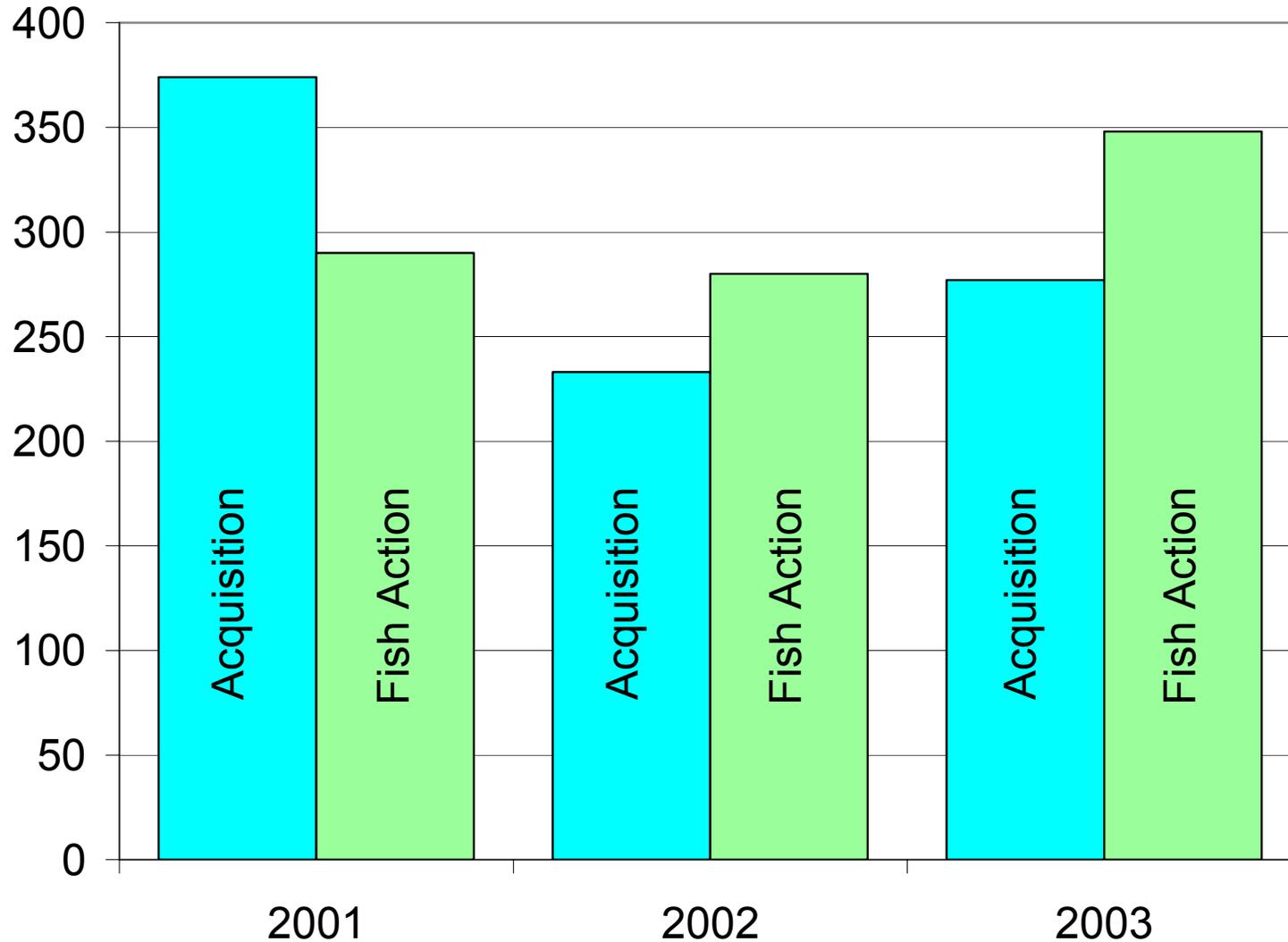
### Objectives

- Protect fish under ESA & for long-term recovery
- Improve water supply reliability (maintain deliveries)

# **Environmental Water Account**

- Increase pumping to 8,500 cfs (2003)
  - Temporary/permanent barriers
  - Other actions to protect local diverters
  - Plan for coordinated SWP/CVP operations
- EWA
- Water Quality Improvements
- Longer-term projects
  - SWP-CVP Aqueduct intertie (decision by 2004)
  - San Luis bypass canal (2004)
  - Lower SJR floodway improvement (2005)

# Water Supply Reliability EWA Accomplishments

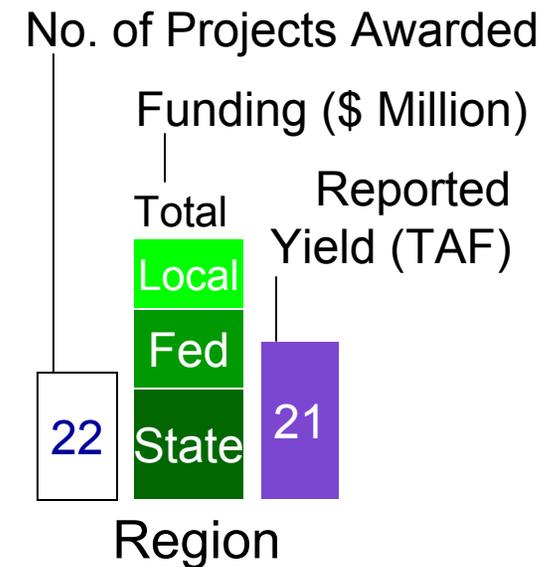
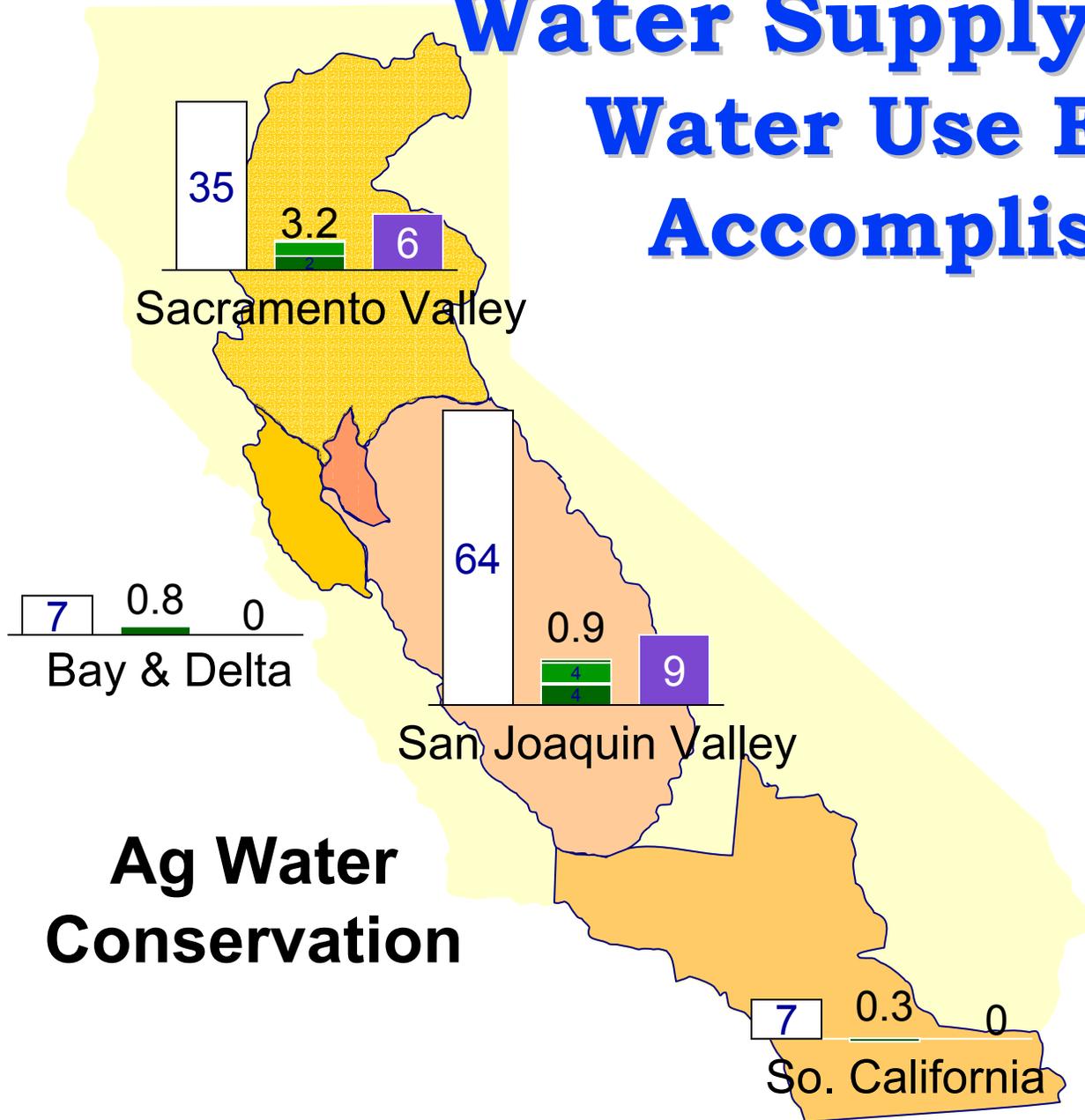


# **Environmental Water Account**

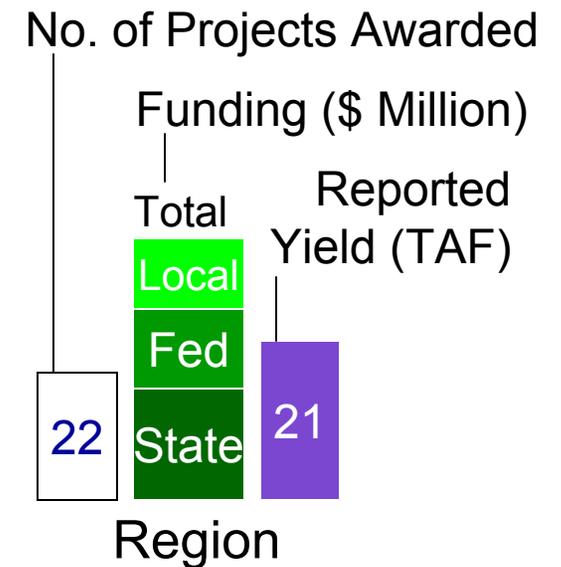
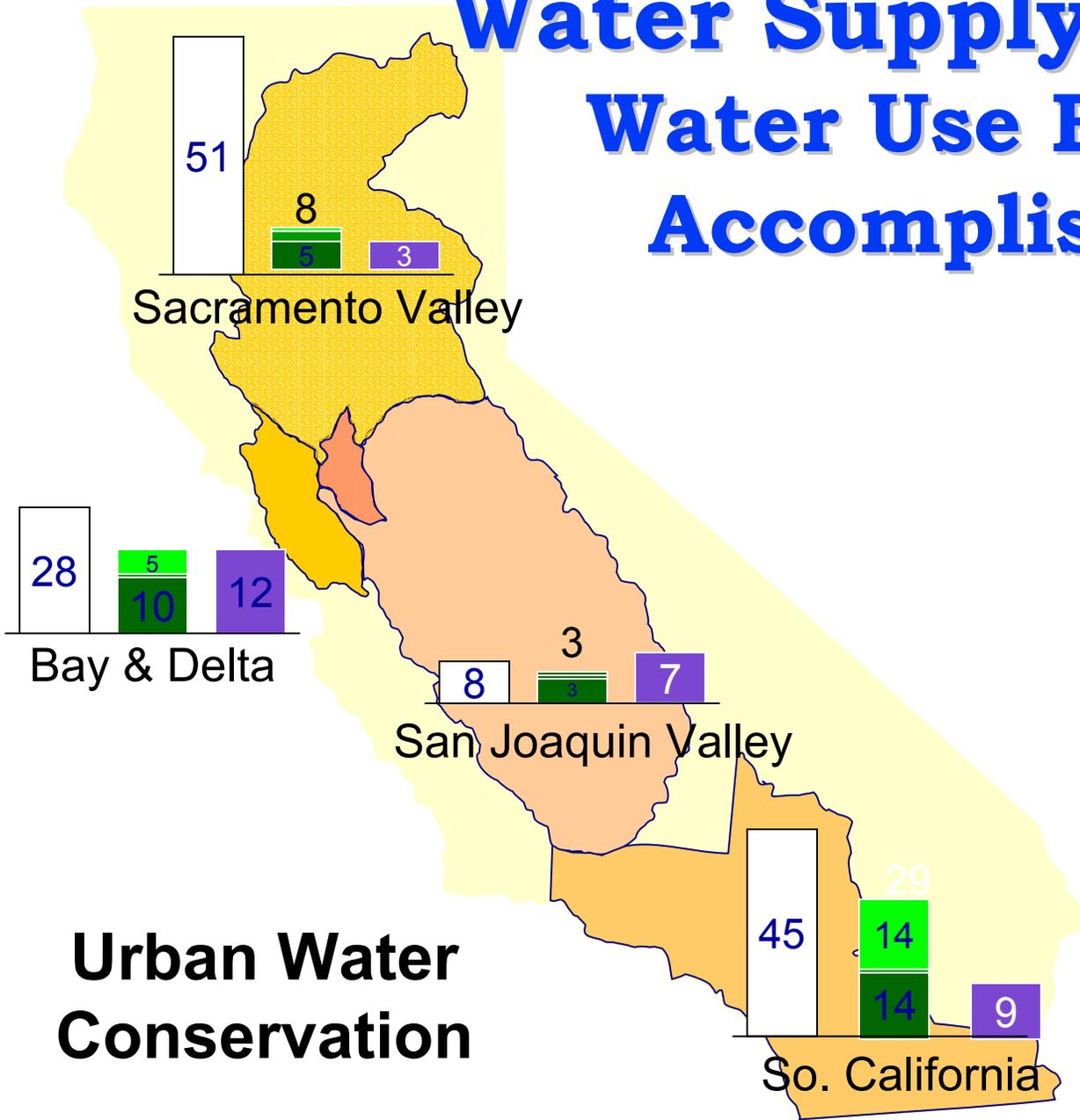
- Purpose:
- Interested Tribes:
- Status:
- Contact:

# **Water Use Efficiency**

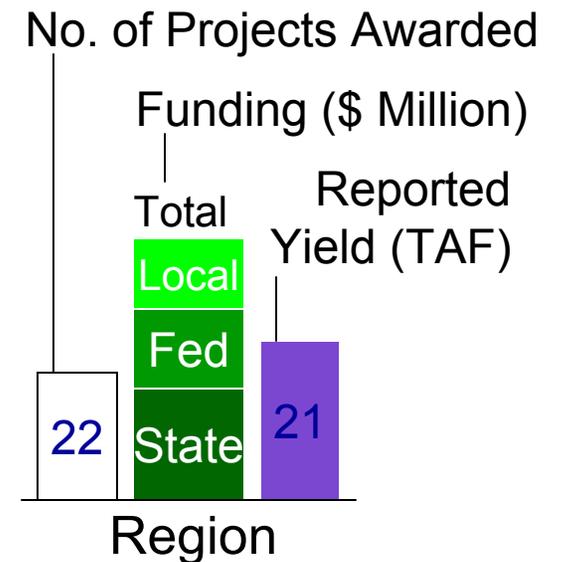
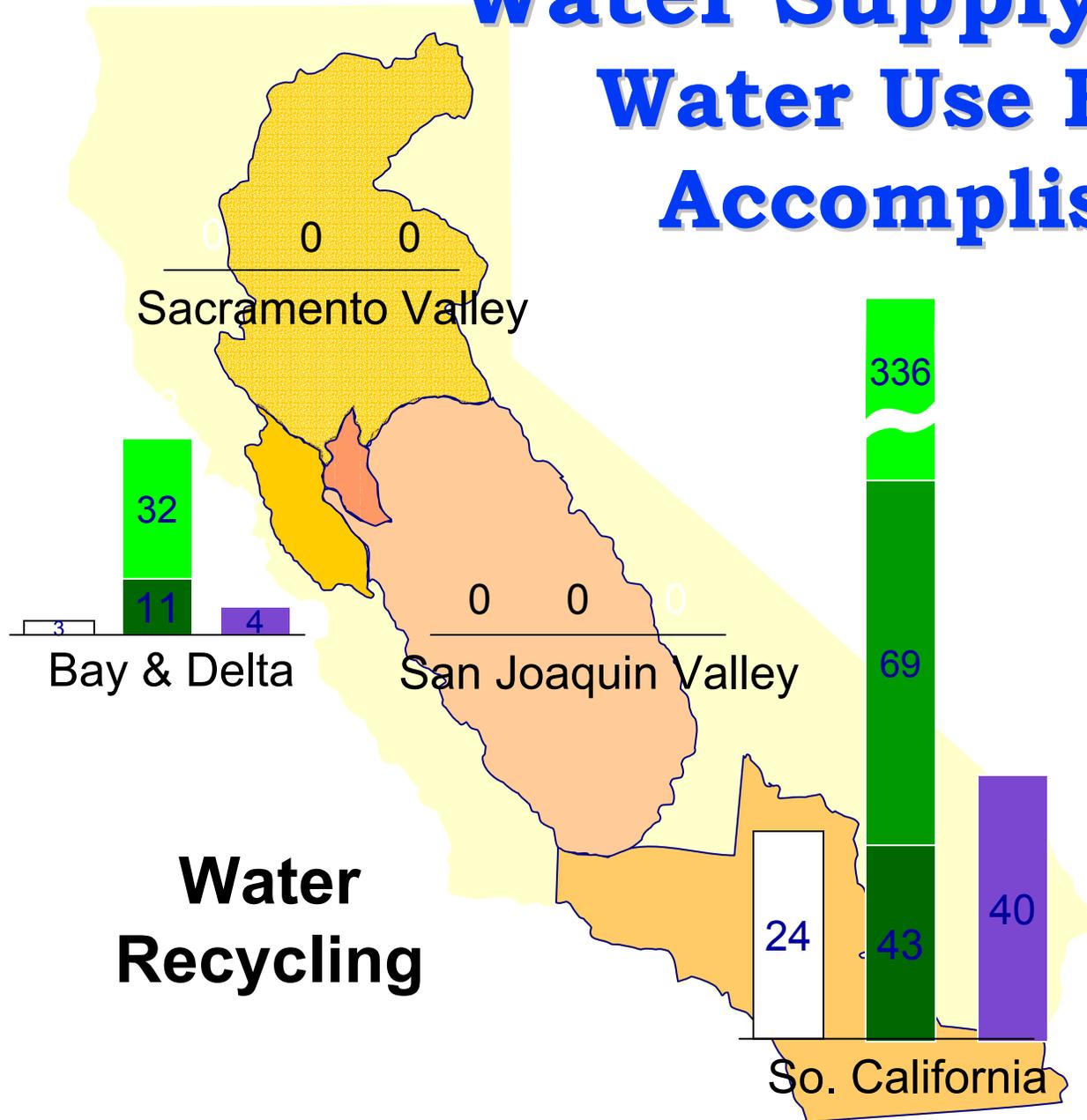
# Water Supply Reliability Water Use Efficiency Accomplishments



# Water Supply Reliability Water Use Efficiency Accomplishments



# Water Supply Reliability Water Use Efficiency Accomplishments



# **Water Use Efficiency**

## **Urban Water Conservation**

- Purpose:
- Interested Tribes:
- Status:
- Contact:

# **Water Use Efficiency**

## **Agricultural Water Conservation**

- Purpose:
- Interested Tribes:
- Status:
- Contact:

# **Water Use Efficiency**

## **Water Recycling**

- Purpose:
- Interested Tribes:
- Status:
- Contact:

# **Ecosystem Restoration**

# **Ecosystem Restoration**

- Slides from ERP (Castleberry) to be inserted

# **Watersheds**

# **Watershed Goals and Objectives**

- Provide technical and financial assistance
- Promote collaboration and integration

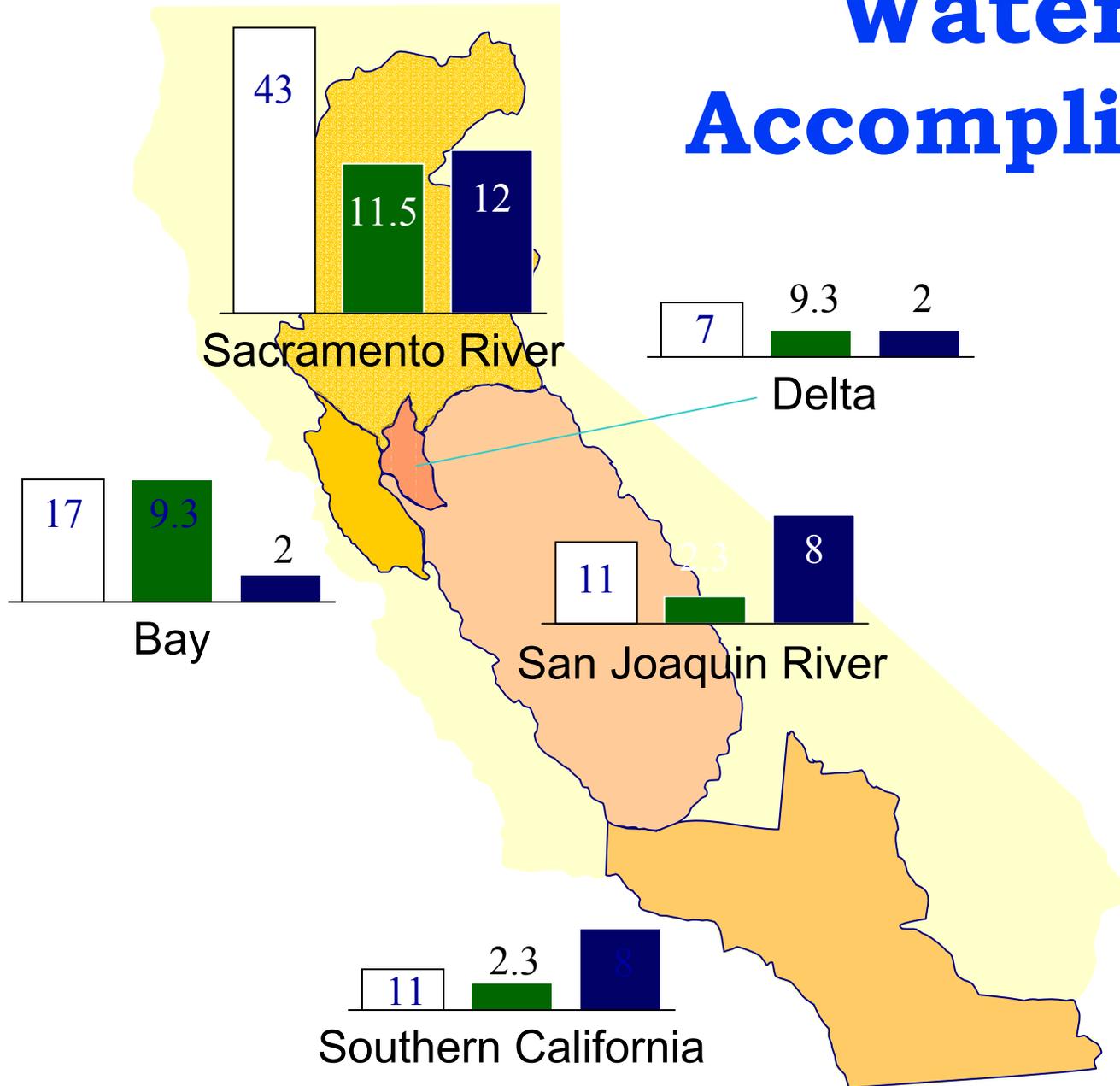
# Watershed Accomplishments



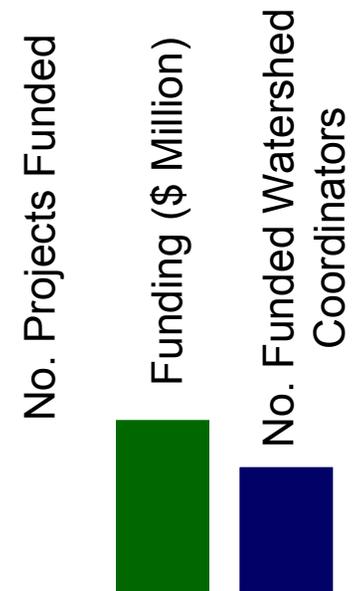
- \$27.4 million distributed through 84 grant projects to 50 community-based organizations
- Partnership Seminars have trained 80 local and agency personnel
- Support for 20 Watershed Coordinators

 Funded Grants

# Watershed Accomplishments



## Legend



# **Watershed Management**

- Purpose:
- Interested Tribes:
- Status:
- Contact:

# **Drinking Water Quality**

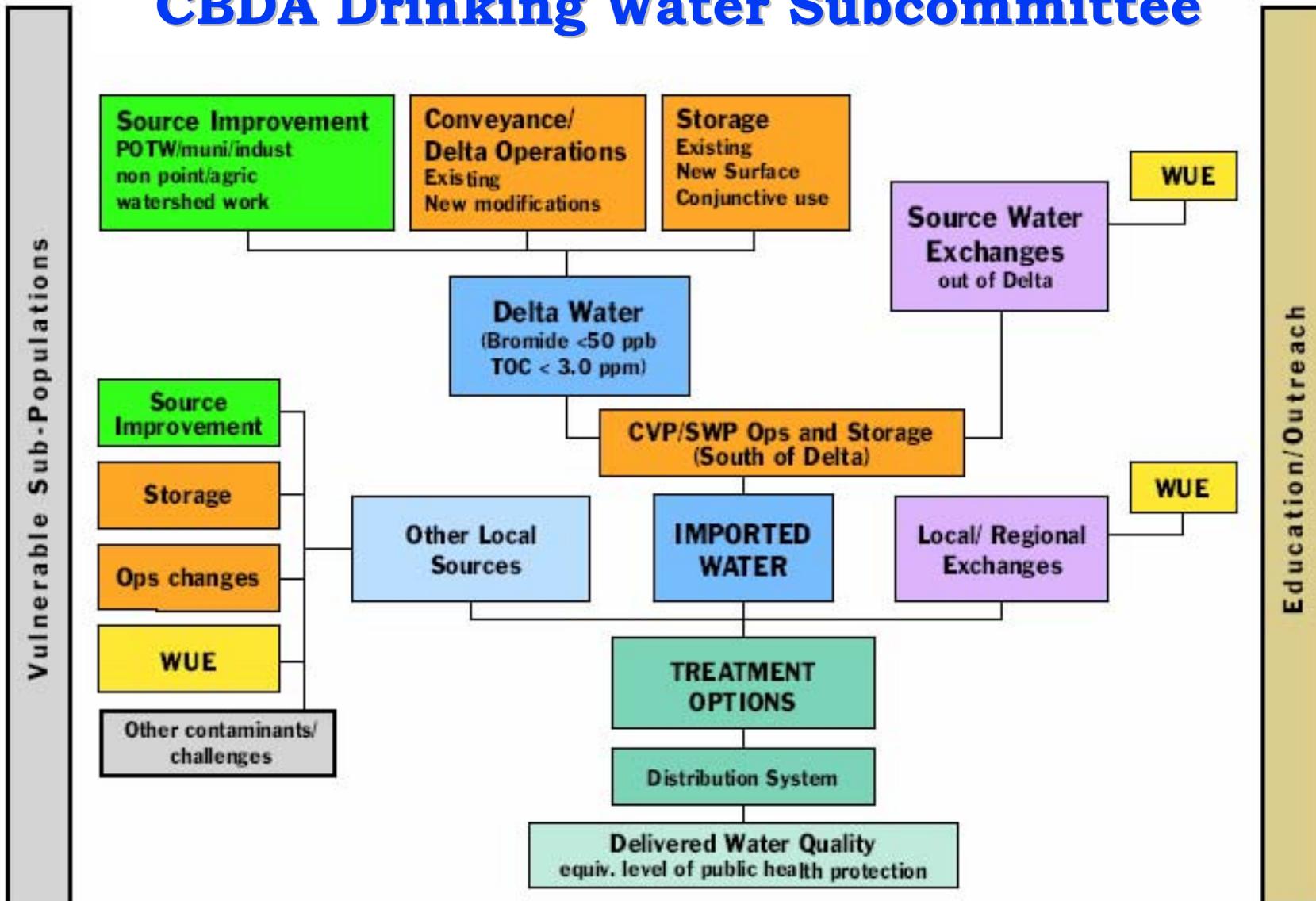
# Drinking Water Quality Goals and Objectives

Program Goals - provide safe, reliable, and affordable drinking water. Source to tap protection and improvement of drinking water quality

- 50 µg/L bromide and 3 mg/L total organic carbon at Delta drinking water intakes or equivalent level of public health protection (ELPH)
- Continuous improvement of in-Delta water quality

# Equivalent Level Of Public Health Protection Diagram

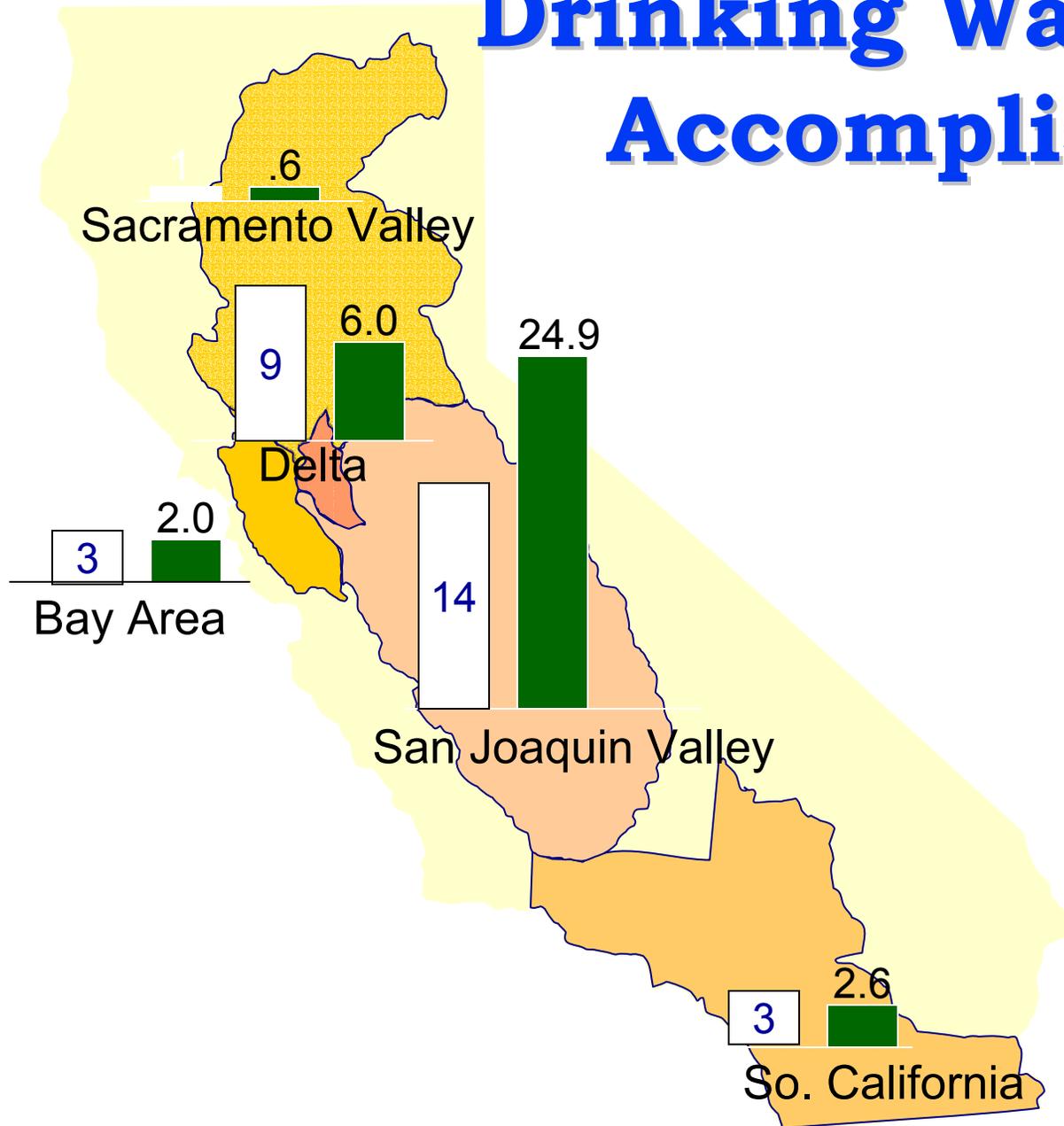
## CBDA Drinking Water Subcommittee



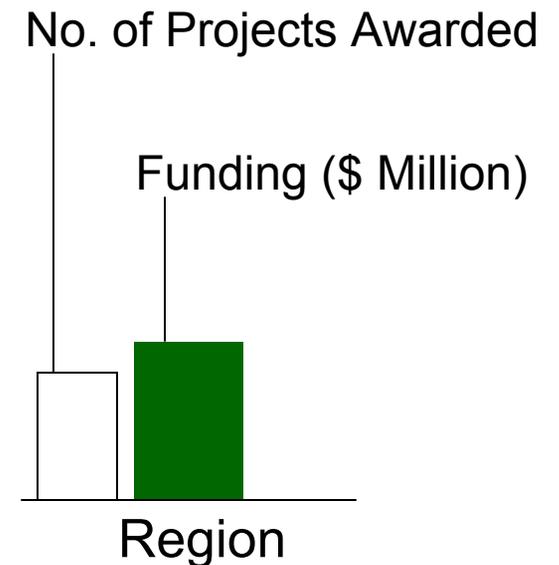
# **Drinking Water Quality Program Components**

- Source Improvement
- Treatment
- Water Quality Exchanges
- Water Management  
(Storage & Conveyance)

# Drinking Water Quality Accomplishments



## Legend



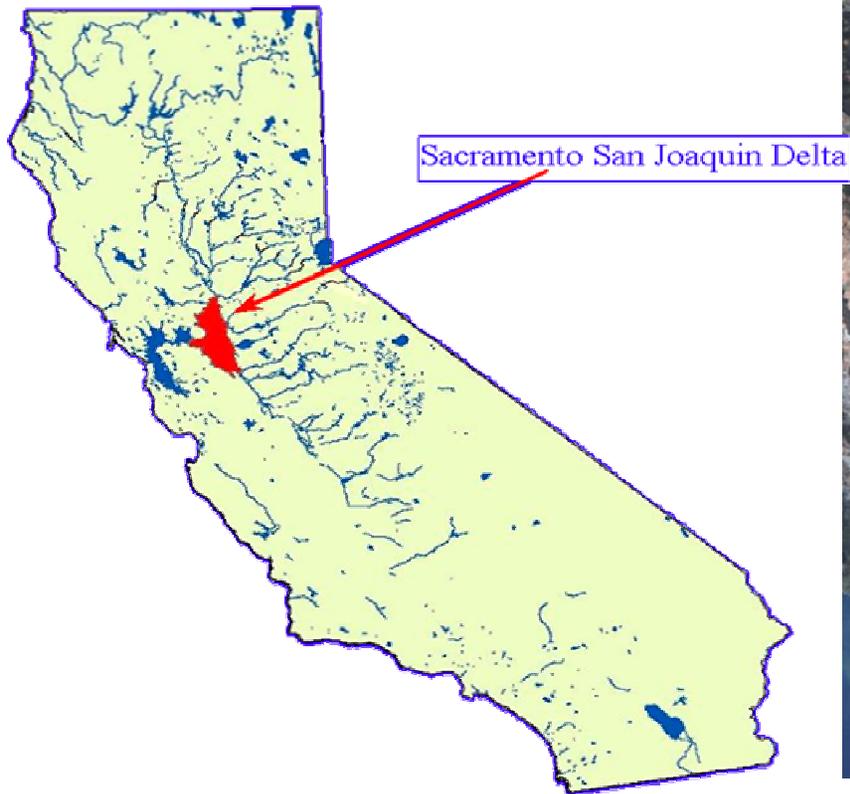
# **Drinking Water Quality**

- Purpose:
- Interested Tribes:
- Status:
- Contact:

# **Levee System Integrity**

# Levee System Integrity

## The Delta



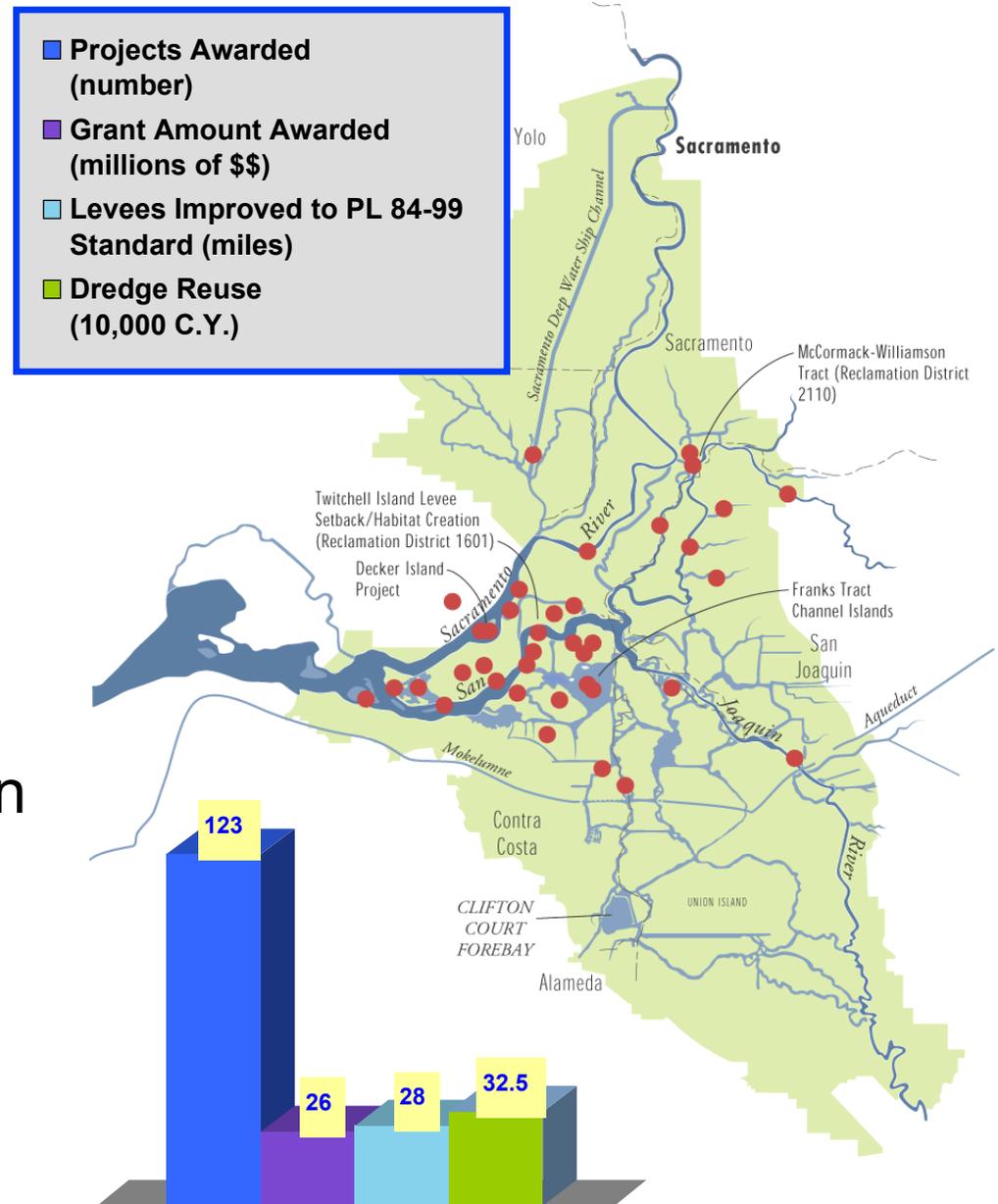
# **Levee System Integrity**

## **Goals and Objectives**

- Base Level Protection
- Special Improvement Projects
- Subsidence Control
- Emergency Management & Response
- Risk Assessment

# Levee System Accomplishments

- Preserved 700 miles of levee
- Reused 325,000 cubic yards of dredged material
- Continued subsidence studies
- Drafted multi-agency Emergency Response Plan
- Seismic risk analysis studies



# Levee System Integrity

- Purpose:
- Interested Tribes:
- Status:
- Contact:

**Science**

# Science

- Slides from Science to be inserted