



**Jason Phillips**

**Chief Executive Officer**

**Friant Water Authority**

Annual Meeting

March 27, 2018 | Fresno, CA



THE FRIANT DIVISION includes over one million acres of irrigated agriculture among five of the United States' most productive agricultural counties.

**1M+** ACRES

**5** COUNTIES

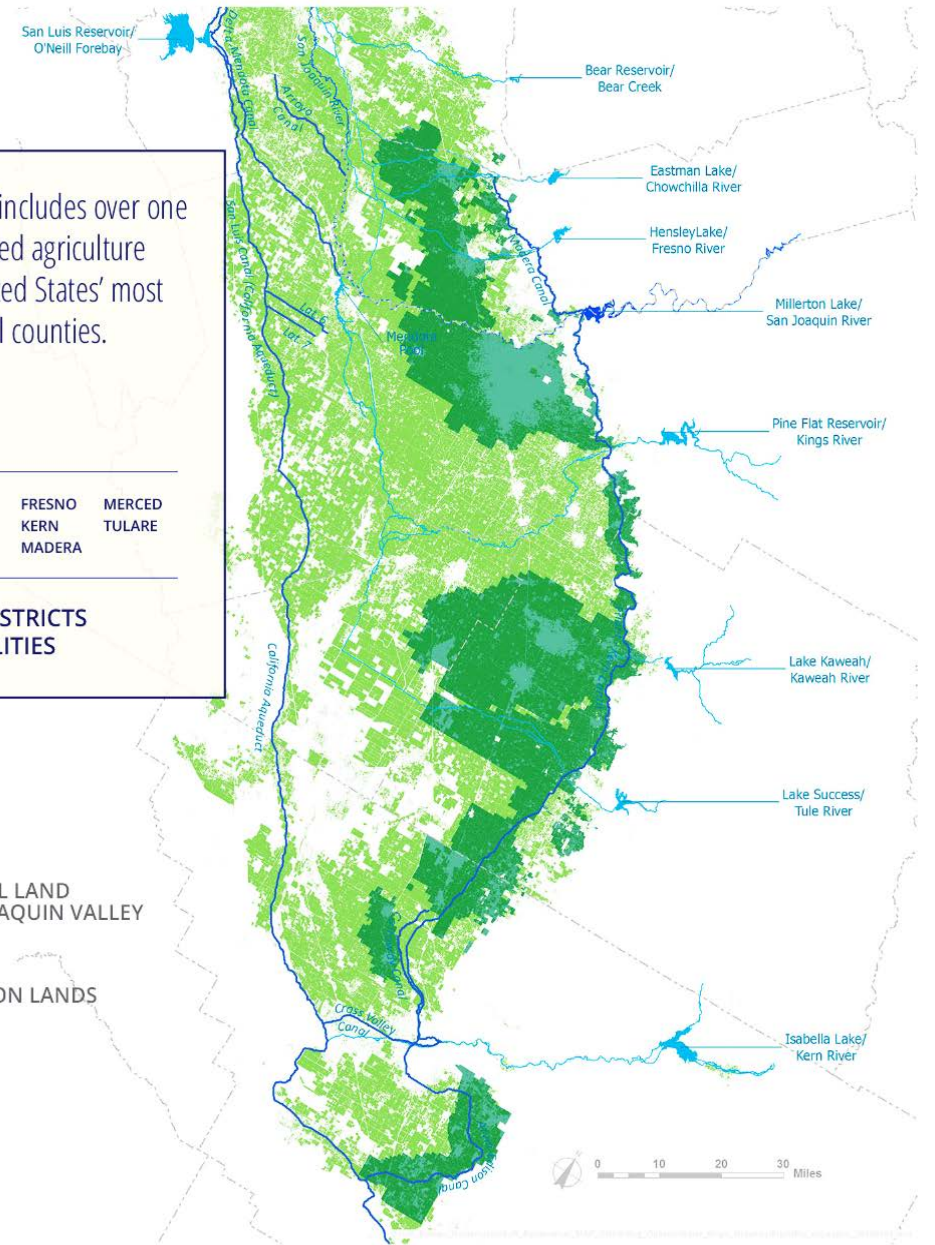
FRESNO  
KERN  
MADERA

MERCED  
TULARE

**34** AGENCIES, DISTRICTS  
& MUNICIPALITIES

**AGRICULTURAL LAND  
IN THE SAN JOAQUIN VALLEY**

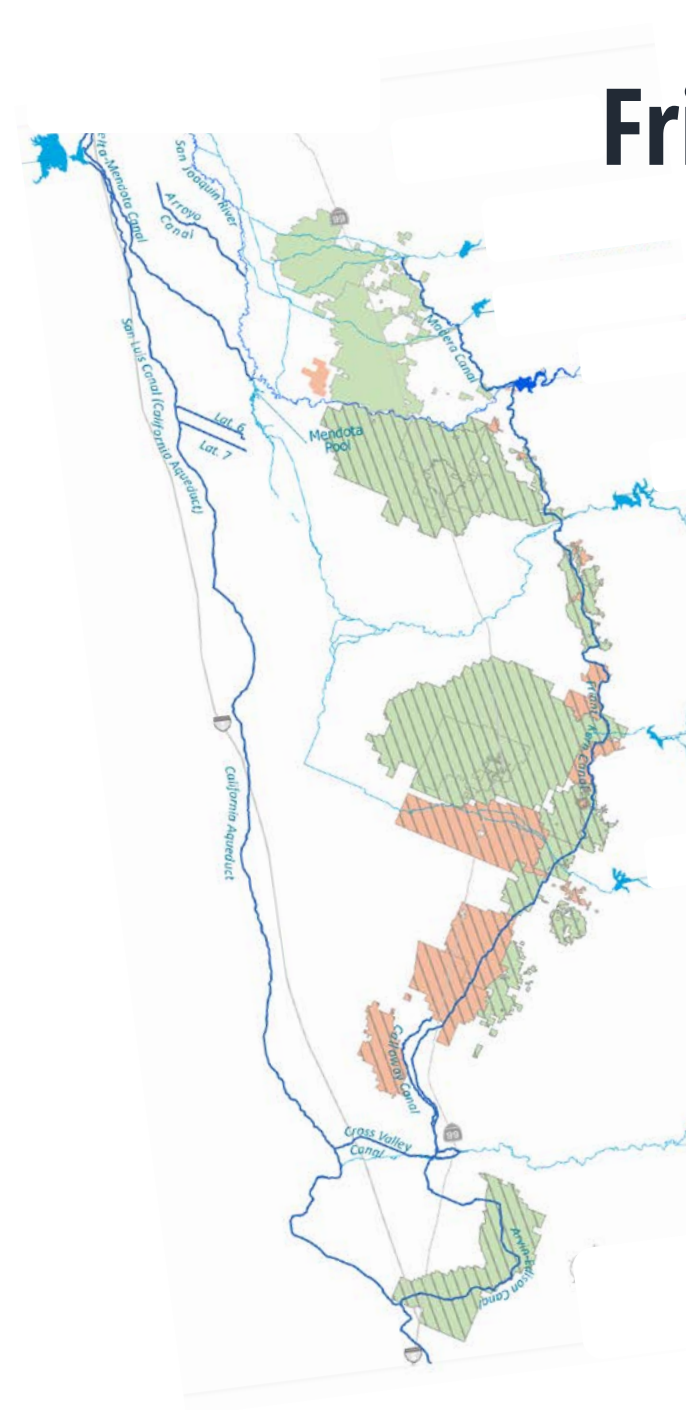
**FRIANT DIVISION LANDS**



# Friant Water Authority, Board of Directors

<b>1. Arvin Edison WSD</b>	<i>Edwin Camp</i>	<b>9. Lindsay-Strathmore ID</b>	<i>Cliff Loeffler</i>
<b>2. Chowchilla WD **</b>	<i>Kole Upton</i>	<b>10. Orange Cove ID</b>	<i>Harvey Bailey</i>
<b>3. City of Fresno</b>	<i>Tim Orman</i>	<b>11. Madera ID **</b>	<i>Jim Erickson</i>
<b>4. Fresno ID</b>	<i>George Porter</i>	<b>12. Porterville ID</b>	<i>Eric Borba</i>
<b>5. Hills Valley ID</b>	<i>Loren Booth</i>	<b>13. Saucelito ID</b>	<i>Steven Kisling</i>
<b>6. Kaweah Delta WCD</b>	<i>Chris Tantau</i>	<b>14. Terra Bella ID</b>	<i>Edwin Wheaton</i>
<b>7. Kern-Tulare WD</b>	<i>Kent Stephens</i>	<b>15. Tulare ID</b>	<i>Rick Borges</i>
<b>8. Lindmore ID</b>	<i>Michael Brownfield</i>	-	-

**\*\*** *Receives supplies from the Madera Canal.  
All others receive water from the Friant-Kern Canal.*





# Other Friant Contractors

**1. Lower Tule River ID**

**2. Delano-Earlimart ID**

**3. Southern San Joaquin MUD**

**4. Shafter-Wasco ID**

**5. Exeter ID**

**6. Gravelly Ford ID**

**7. Stone Corral ID**

**8. Tea Pot Dome WD**

**9. Ivanhoe ID**

**10. Garfield WD**

**11. City of Lindsay**

**12. City of Orange Cove**

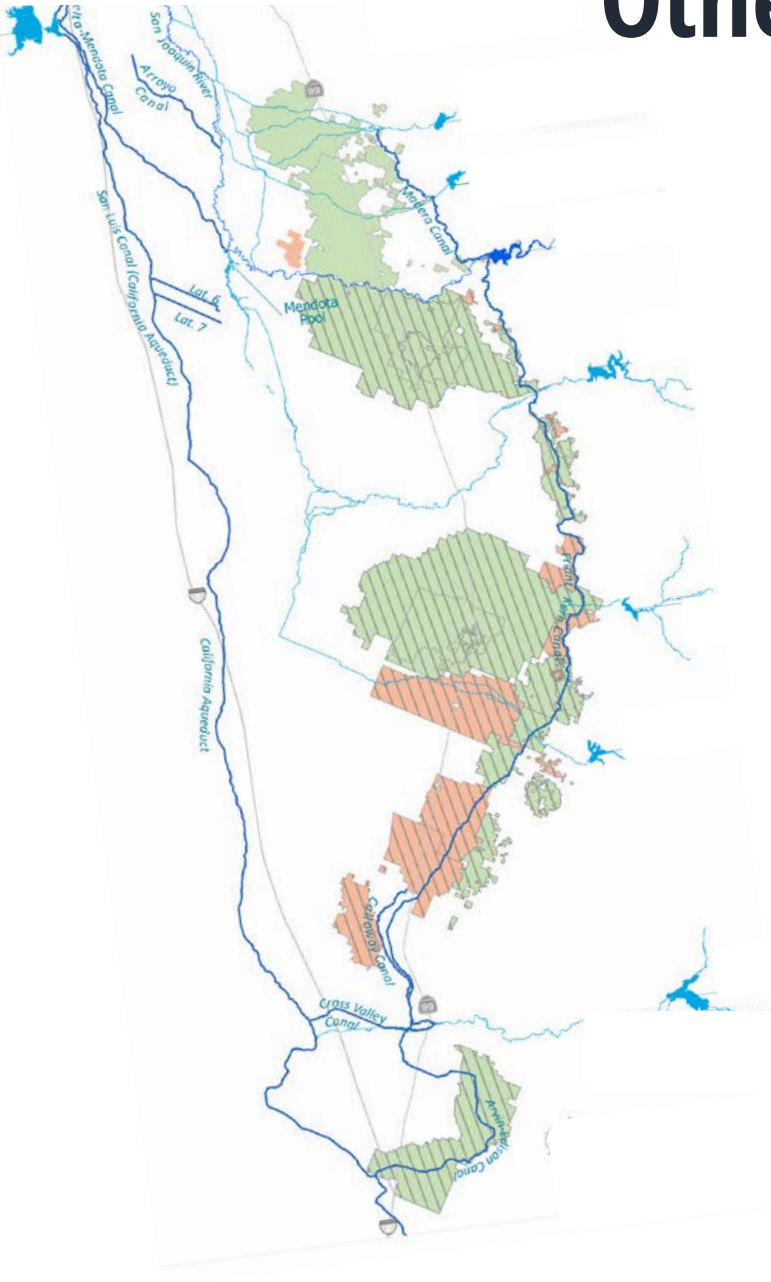
**13. International WD**

**14. Lewis Creek WD**

**15. Tri Valley WD**

**16. Madera County**

**17. Fresno County WWKS #18**





# Kent Stephens

Chairman

Friant Water Authority

# 2017 Accomplishments - Highlights



## 2017 Accomplishments

### Critical Task: Operation & Maintenance of the Friant-Kern Canal

- 1,460,000 AF delivered to Friant contractors through the Friant-Kern Canal
- Quantified urgent challenges and formulated a response related to subsidence on the canal
- Implemented short-term actions to improve delivery ability below the subsidence area
- Initiated aggressive planning and engineering efforts in partnership with Reclamation to make long-term canal capacity upgrades
- Replaced 48 concrete panels over 9 miles to restore canal integrity
- Applied 54 tons of copper sulfate and 275 gallons of chelated copper to control aquatic weeds and invasive plants (milfoil) throughout the entire canal
- Retrofitted 2 temporary reverse-flow pump stations at Shafter and Reservoir check structures
- Developed a private 4G LTE network to move from a standard SCADA system to an Operational Intelligence system on the canal's 14 check structures and 88 delivery sites




### Strategic Plan Goal #1: Water Supply Management

- 23,000 AF of recaptured water delivered to Friant contractors or returned to Millerton Lake
- Organized group of San Joaquin Valley water agencies to evaluate feasibility of water user investment in Temperance Flat
- Launched aerial snow survey program
- Obtained \$4 M in state funding for Friant-Kern Canal facility upgrades
- Secured \$7.2 M in federal funding budgeted for Friant-Kern Canal capacity restoration
- Provided technical support to ensure 2018 Water Bond included Friant infrastructure needs
- Added specialized legal counsel to ensure full protection of Friant water rights and contracts



## 2017 Accomplishments

### Strategic Plan Goal #2: Good Internal and External Governance

- Updated Strategic Plan to focus staff and Board of Director efforts on highest priorities
- Convened Board Retreat held to develop 2018 strategy
- Held 12 Board meetings and Executive Committee meetings
- Elected new Board officers
- Increased membership to 15 with addition of Fresno Irrigation District and Chowchilla Water District
- Improved transparency and communication with contractors to facilitate better decision-making



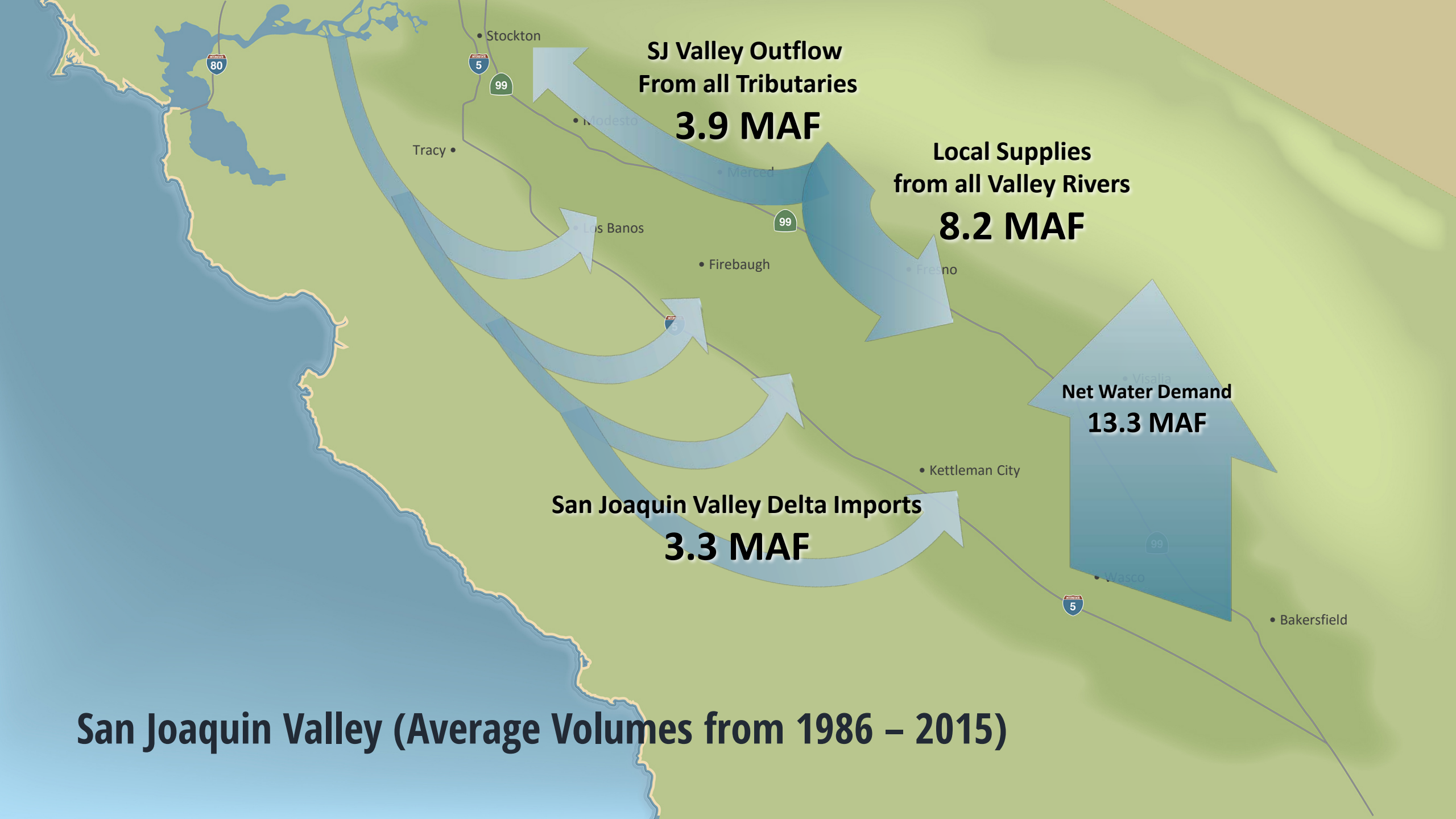


### Strategic Plan Goal #3: Outreach and Engagement

- Organized several trips to Washington DC with directors and staff to communicate and educate policy makers and lawmakers on Friant issues and priorities
- Launched Weekly Water Supply Report email
- Held first-ever Annual Meeting
- Staff elected to positions on ACWA's Federal Affairs, Legal Affairs, and State Legislative Affairs committees
- New website at [www.friantwater.org](http://www.friantwater.org)
- Fact sheets produced on the Valley's water balance, Friant-Kern Canal subsidence, the Aerial Snow Observatory, and Temperance Flat
- Obtained input on priorities during 4 town hall meetings throughout the Friant service area
- Promoted Friant contractor priorities at speaking engagements that included: Water Association of Kern County, ACWA, San Joaquin River Association, Calif. State Board of Food and Ag., Fresno County Farm Bureau, and Leadership Porterville





**SJ Valley Outflow  
From all Tributaries  
3.9 MAF**

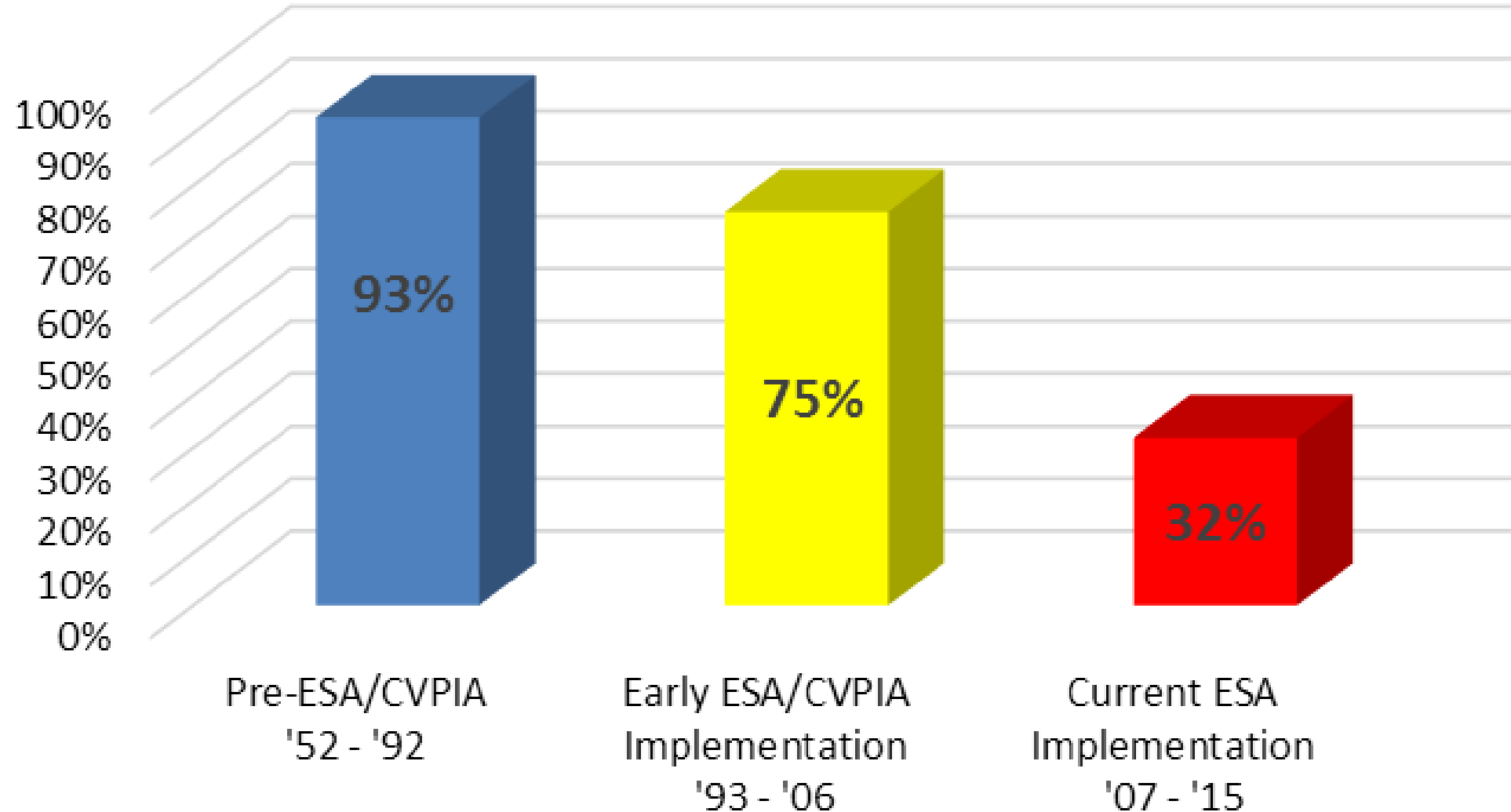
**Local Supplies  
from all Valley Rivers  
8.2 MAF**

**Net Water Demand  
13.3 MAF**

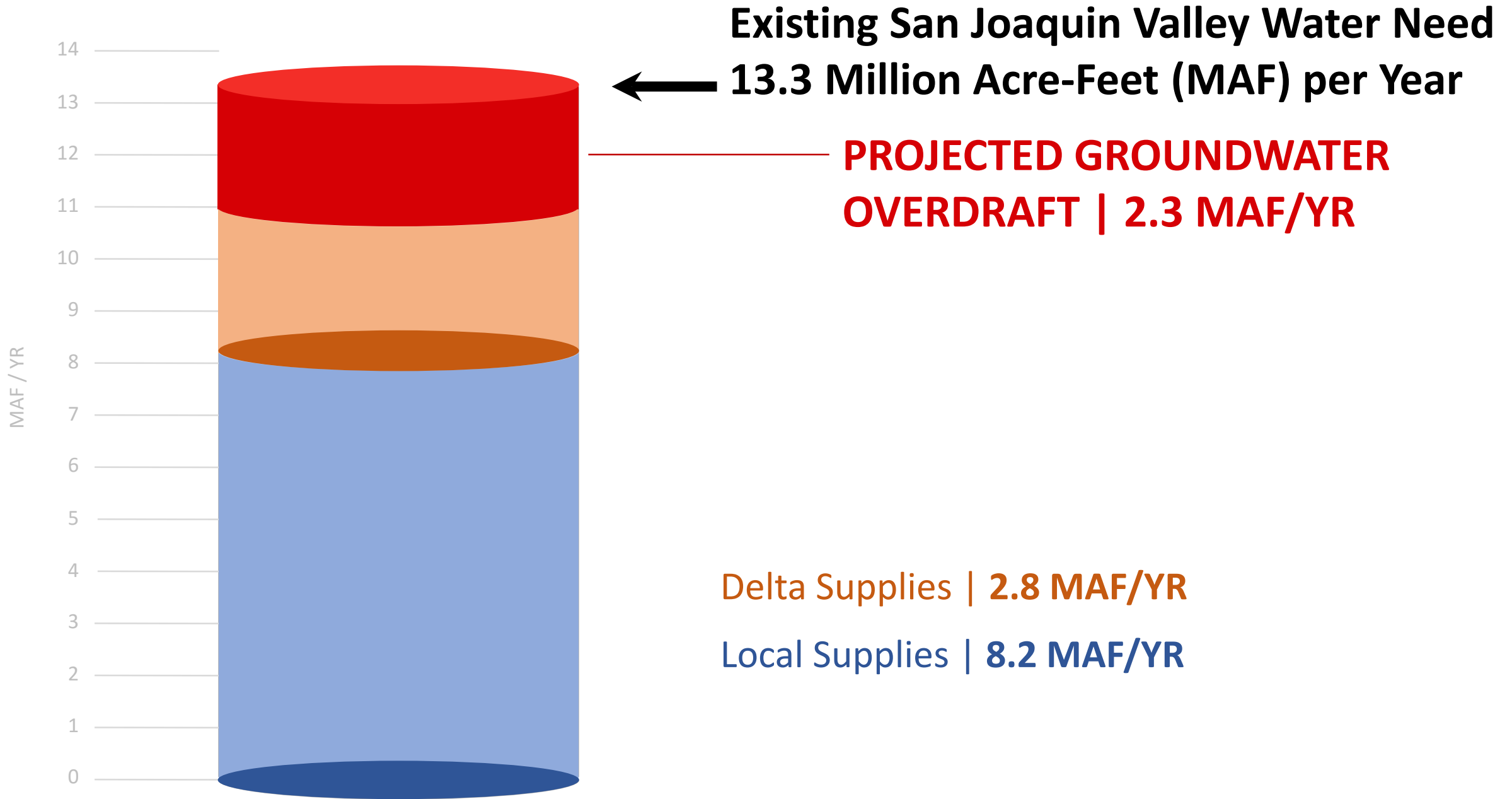
**San Joaquin Valley Delta Imports  
3.3 MAF**

**San Joaquin Valley (Average Volumes from 1986 – 2015)**

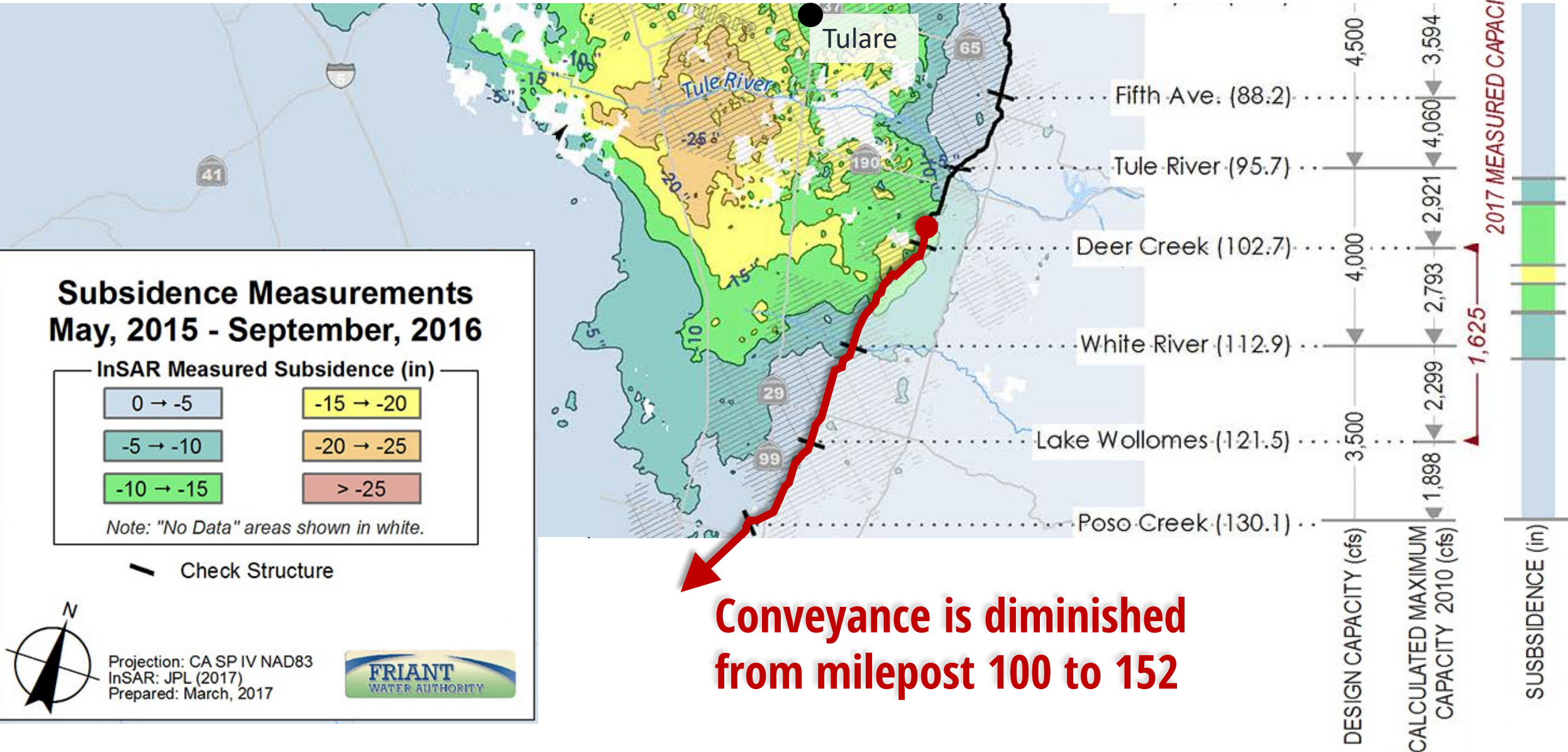
# South of Delta Agricultural Allocations, by Era







# Friant-Kern Canal: Subsidence and Conveyance Loss



# How Can We Achieve a Water Balance?

1. Increase surface water deliveries
  - Not otherwise needed for instream flow requirements
2. Limit Pumping to approx. **6-12 inches** per acre (varies by GSA)
3. Land fallowing or retirement
- ~~4. Water recycling~~
- ~~5. Improve irrigation efficiency~~



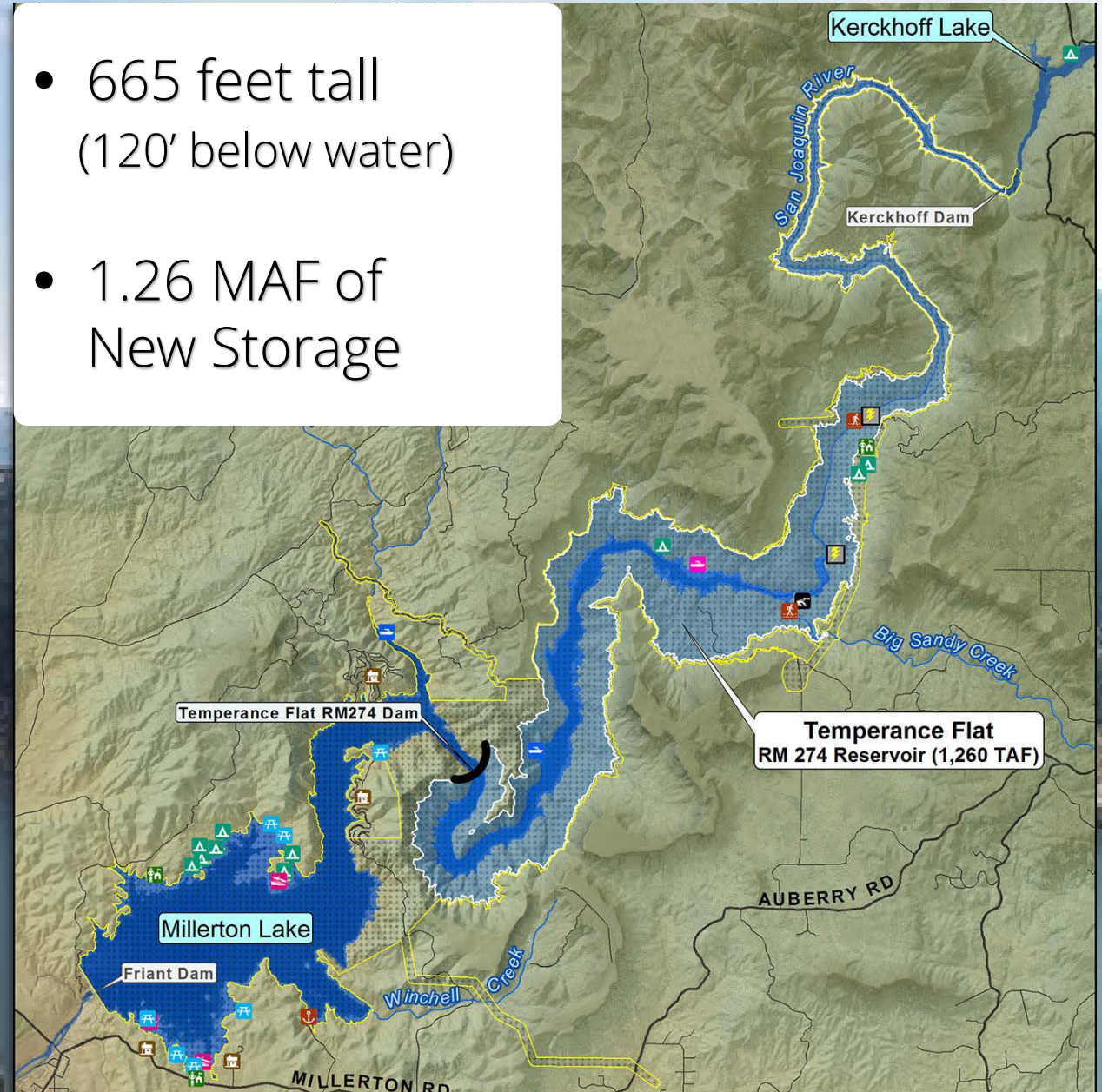
**Some options will NOT prevent retirement  
in the San Joaquin Valley.**

**These options are not solutions, here.**



# Temperance Flat Reservoir Project

- 665 feet tall (120' below water)
- 1.26 MAF of New Storage

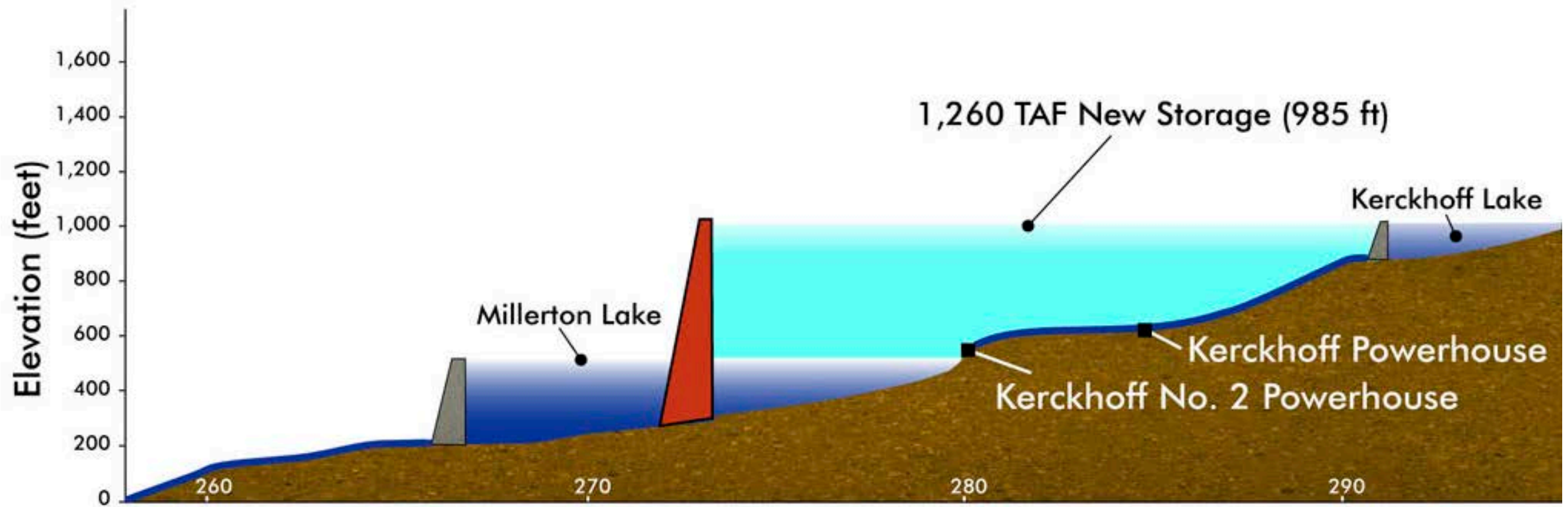




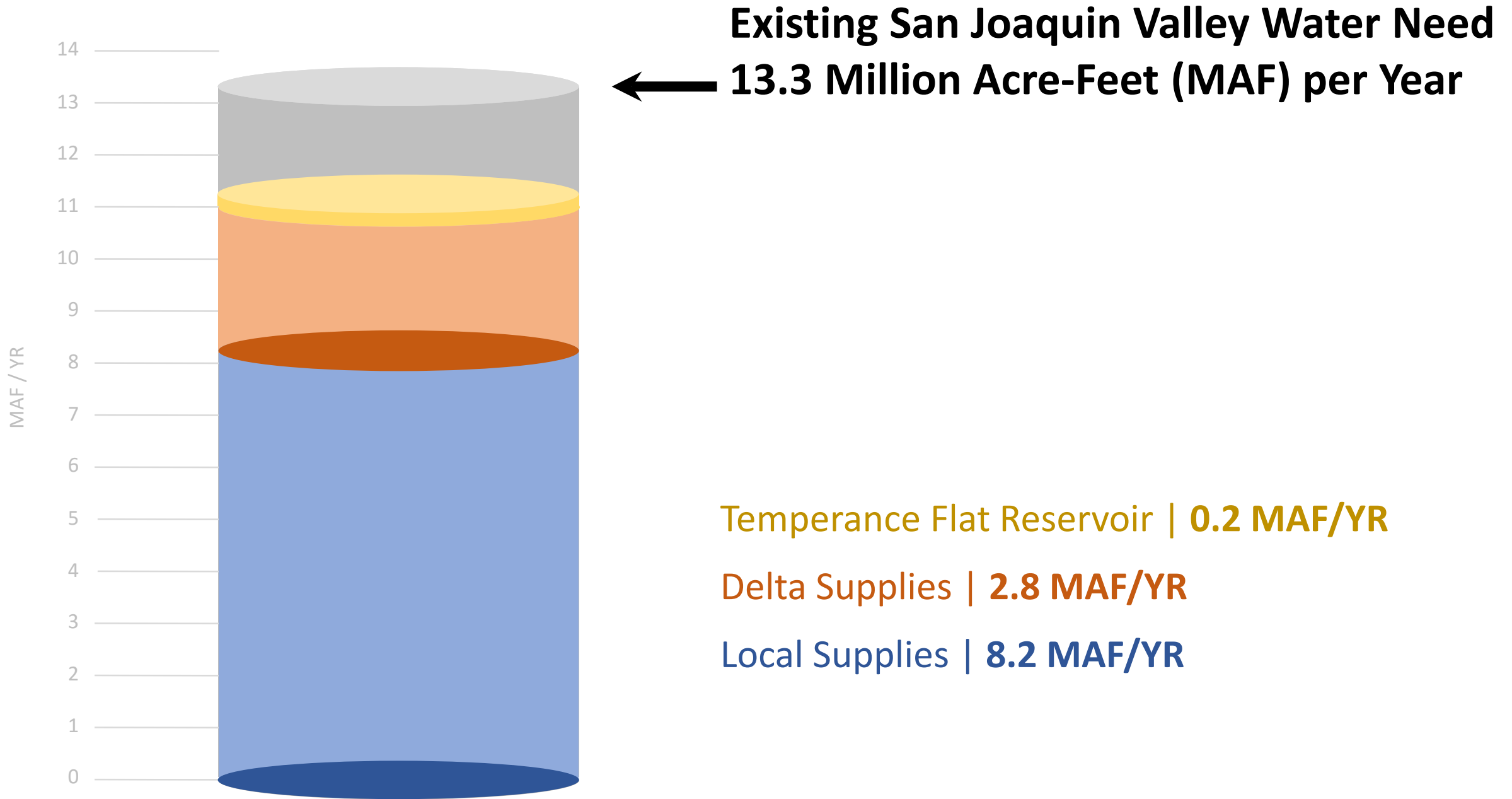




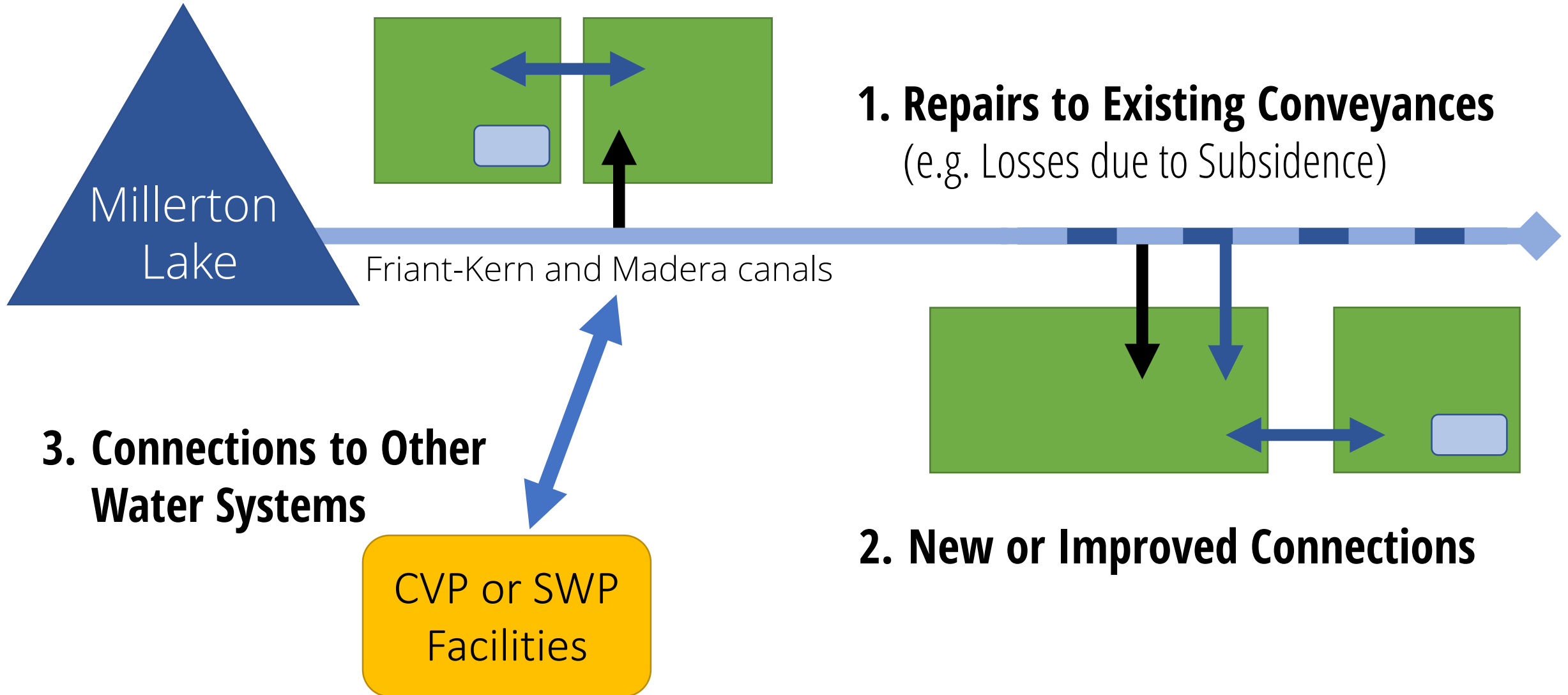
# Temperance Flat Reservoir, on Profile of San Joaquin River







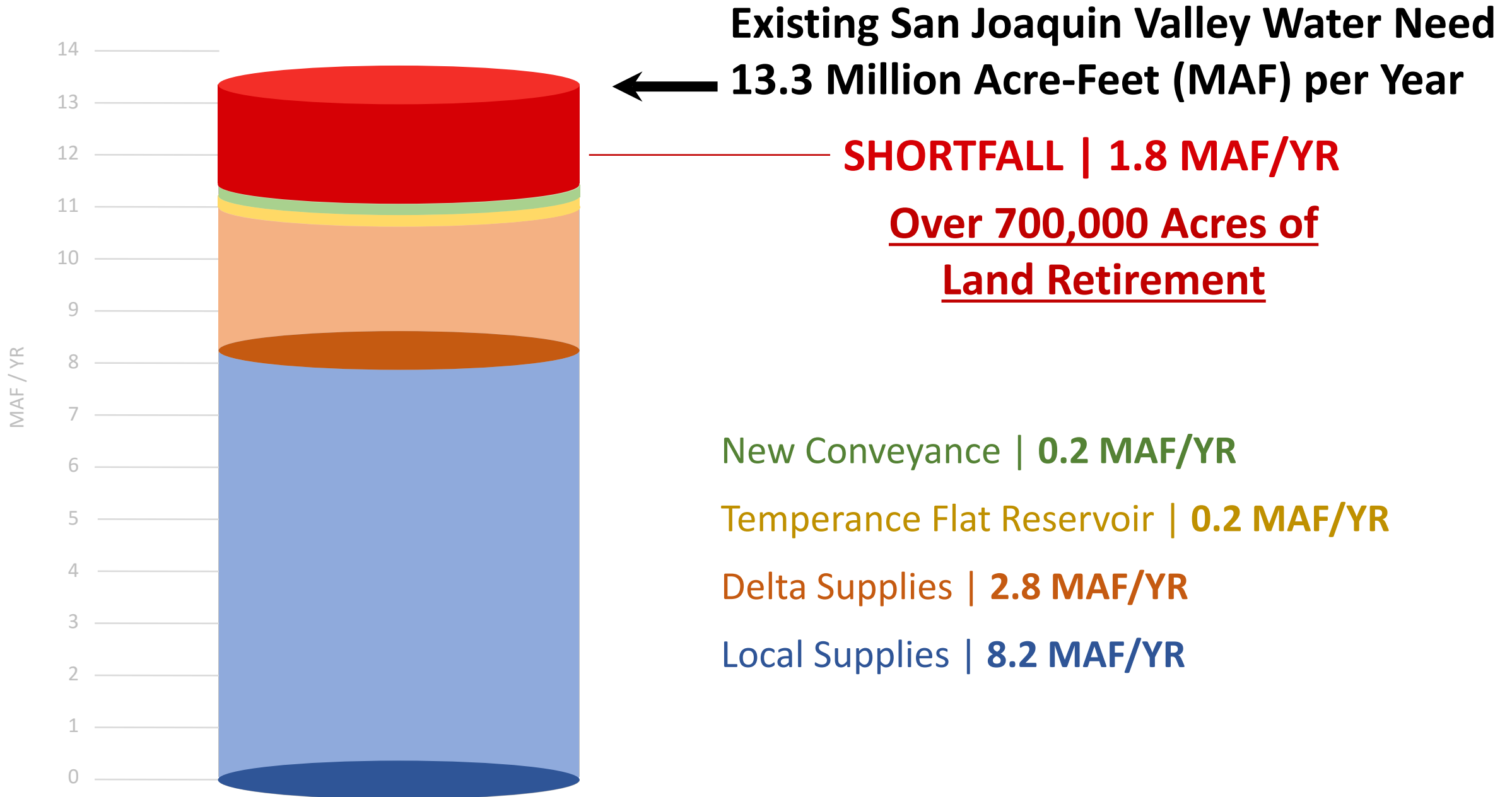
# Where Conveyance Improvements are Needed



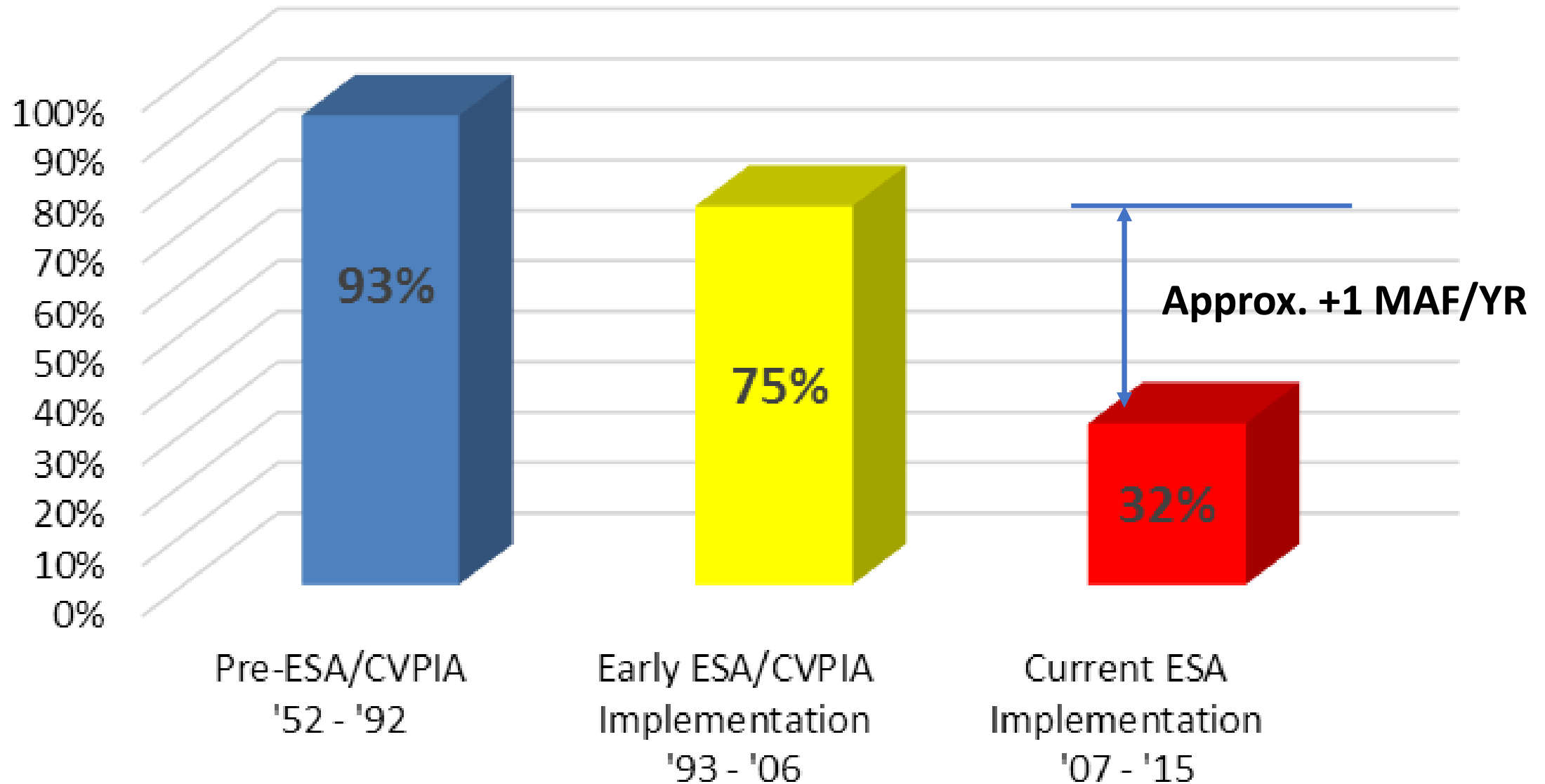
# California Water Bond – November 2018

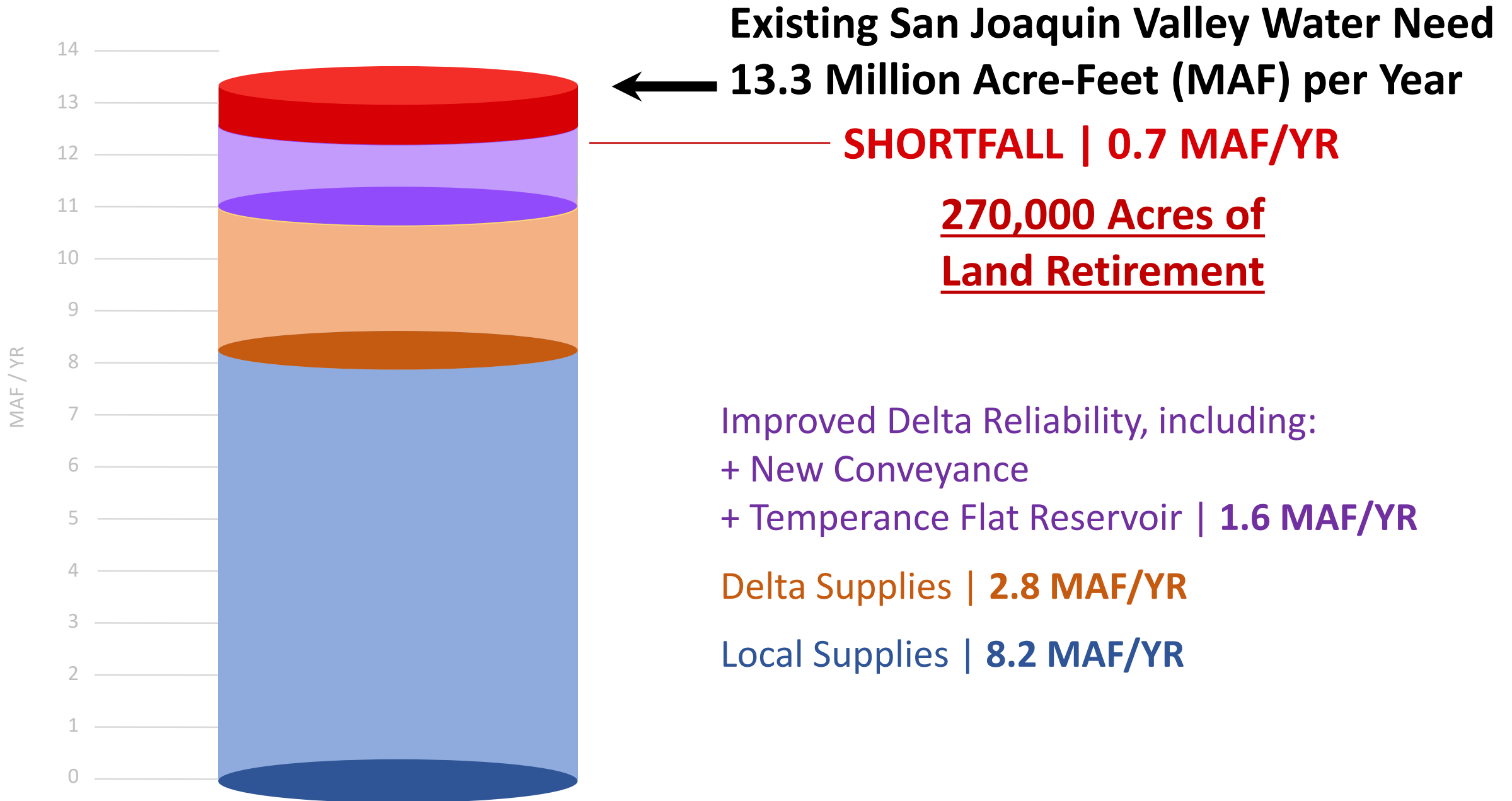
86127. The sum of **seven hundred fifty million dollars (\$750,000,000)** is appropriated from the Fund to the department for a grant **to the Friant Water Authority** for water conveyance capital improvements, including restored and increased conveyance capacity to and in the Madera and Friant-Kern canals, resulting in greater groundwater recharge, improved conveyance and utilization of floodwaters, and for water conservation.





# South of Delta Agricultural Allocations, by Era







# The Path Forward

## The Goals

1. Restore the reliability of Delta imports to pre-1997 levels
2. Restore and improve SJ Valley conveyance
3. Additional surface storage
4. Minimize land retirement

## The Tools

1. Federal legislation and/or improved Delta conveyance
2. 2018 Water Bond
3. Temperance Flat and/or other storage projects



# **Friant Water Authority**

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