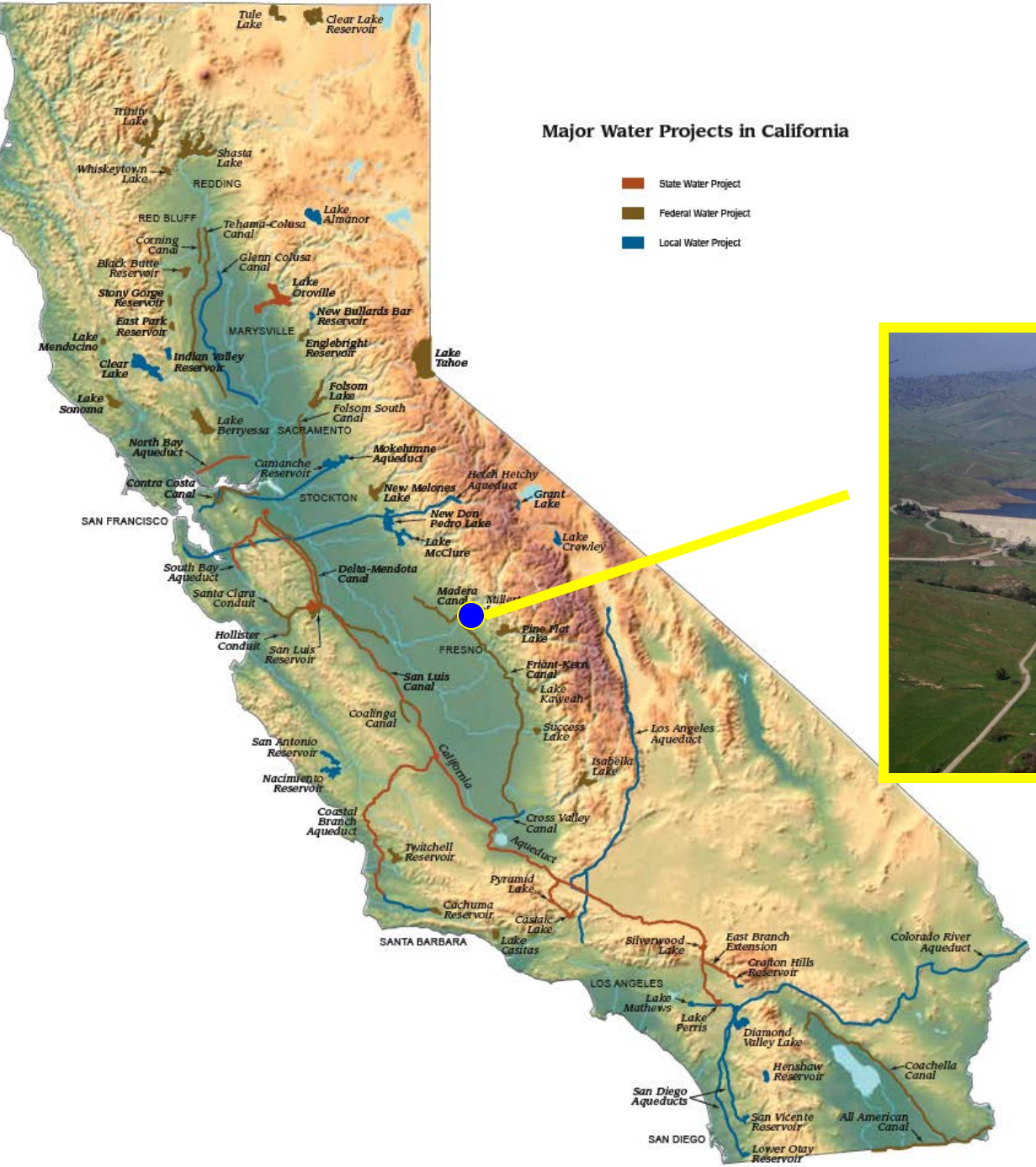
Friant Water Authority
CWC
Update
November 20, 2013



By
Ronald D. Jacobsma
General Manager

Friant Division Service Area and Contractors

Service Area

Merced County
Madera County
Fresno County
Tulare County
Kern County

1,200,000+ Acres
15,000 Farmers
$5B+ Ag Economy

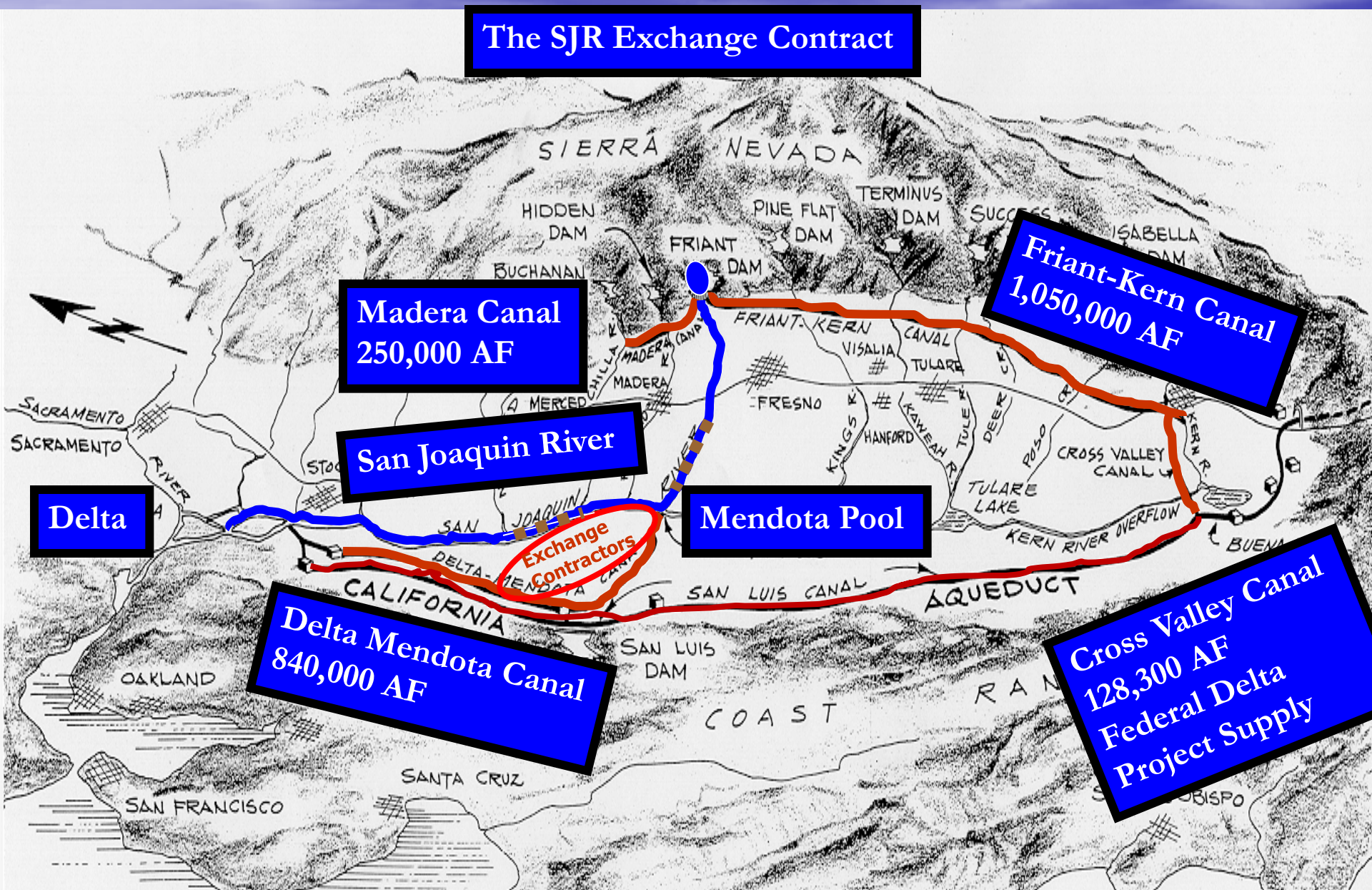
Ag Water Contractors

Arvin-Edison W.S.D.
Chowchilla W.D.
Delano-Earlimart I.D.
Exeter I.D.
Fresno I.D.
Garfield W.D.
Gravelly Ford W.D.
Hills Valley I.D.
International W.D.
Ivanhoe I.D.
Kaweah-Delta WCD
Kern-Tulare W.D.
Lewis Creek W.D.
Lindmore I.D.
Lindsay-Strathmore I.D.
Lower Tule River I.D.
Madera I.D.
Orange Cove I.D.
Porterville I.D.
Saucelito I.D.
Shafter-Wasco I.D.
Southern San Joaquin M.U.D.
Stone Corral I.D.
Tea Pot Dome W.D.
Terra Bella I.D.
Tri-Valley
Tulare I.D.

M&I Contractors

City of Fresno
City of Orange Cove
City of Lindsay
Fresno Co. WWD #18
Madera County

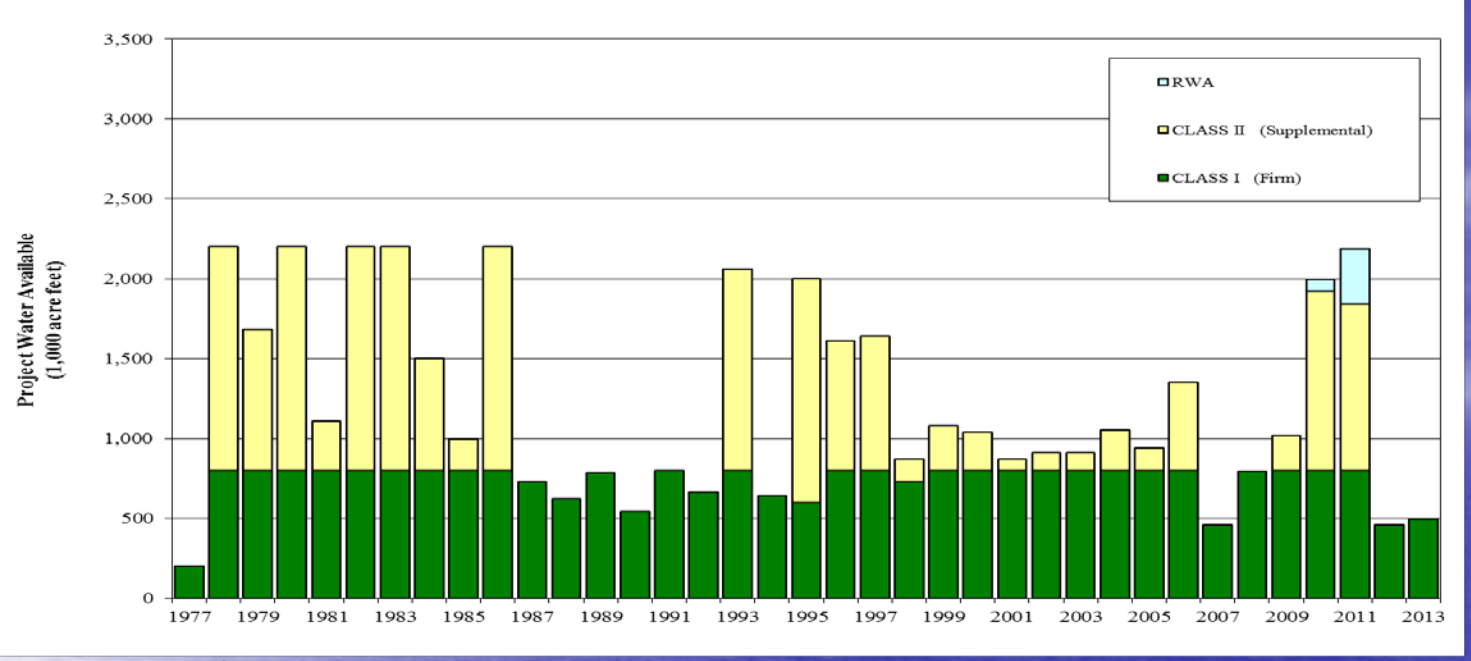
How The Friant Division Works

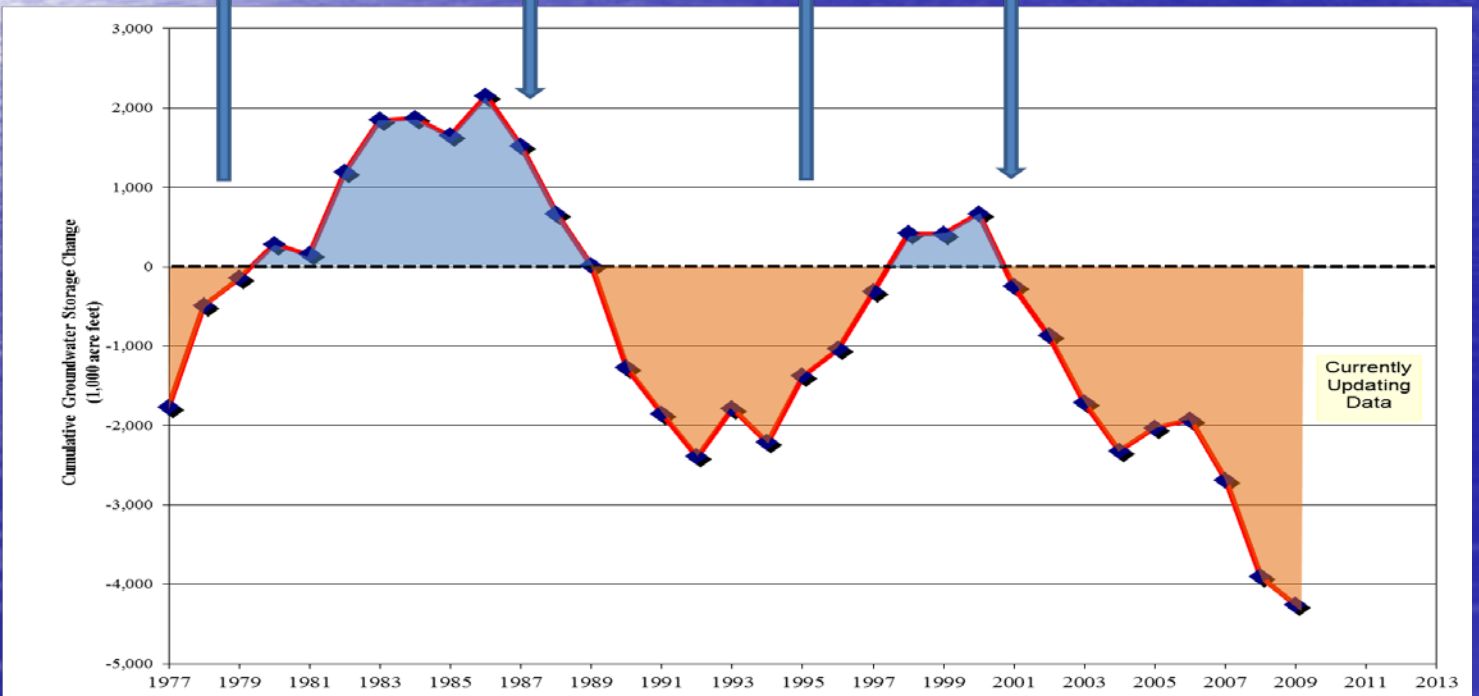


- Friant Division

Class 2

Water Supply and Groundwater Storage Relationship

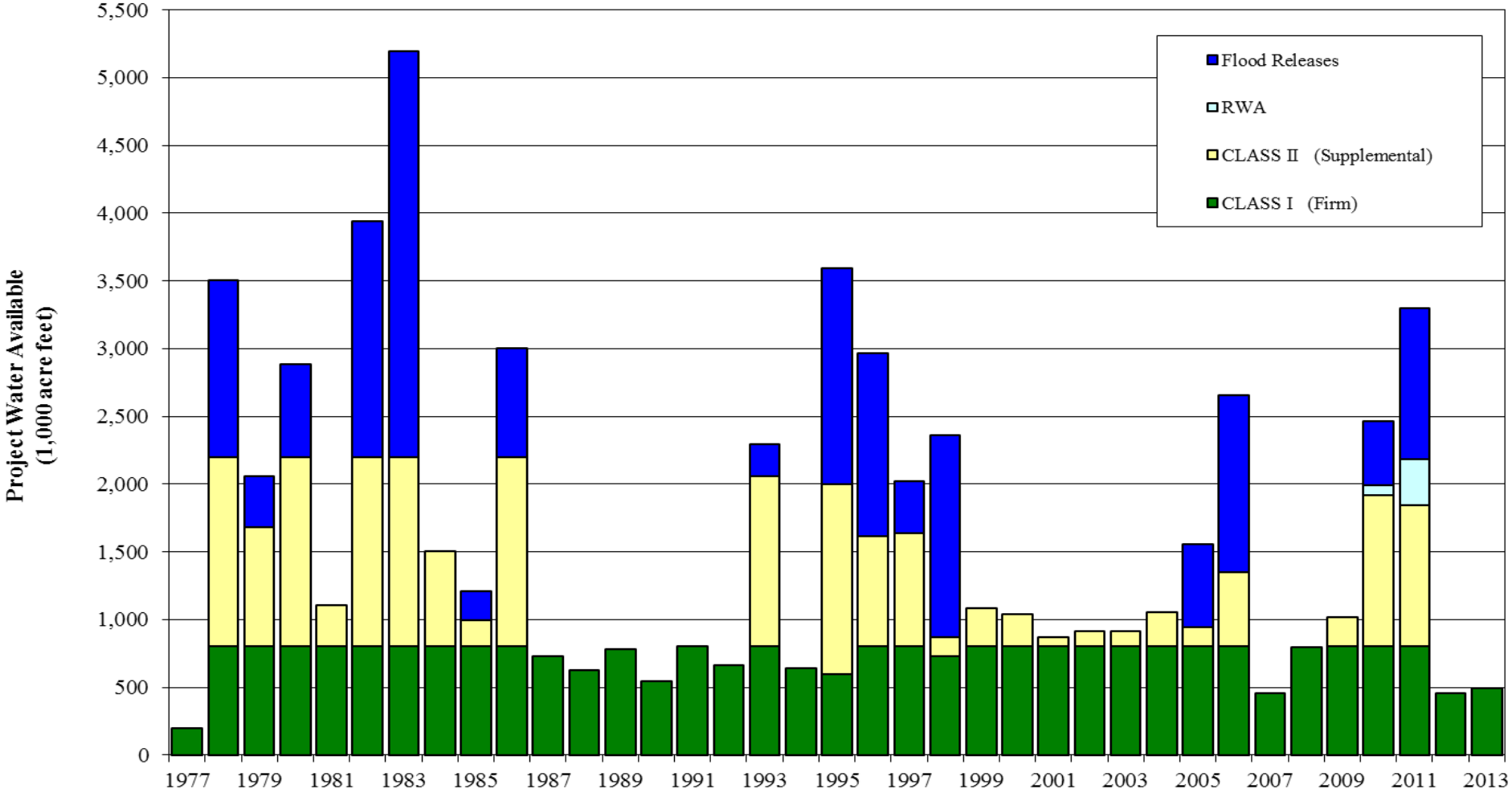


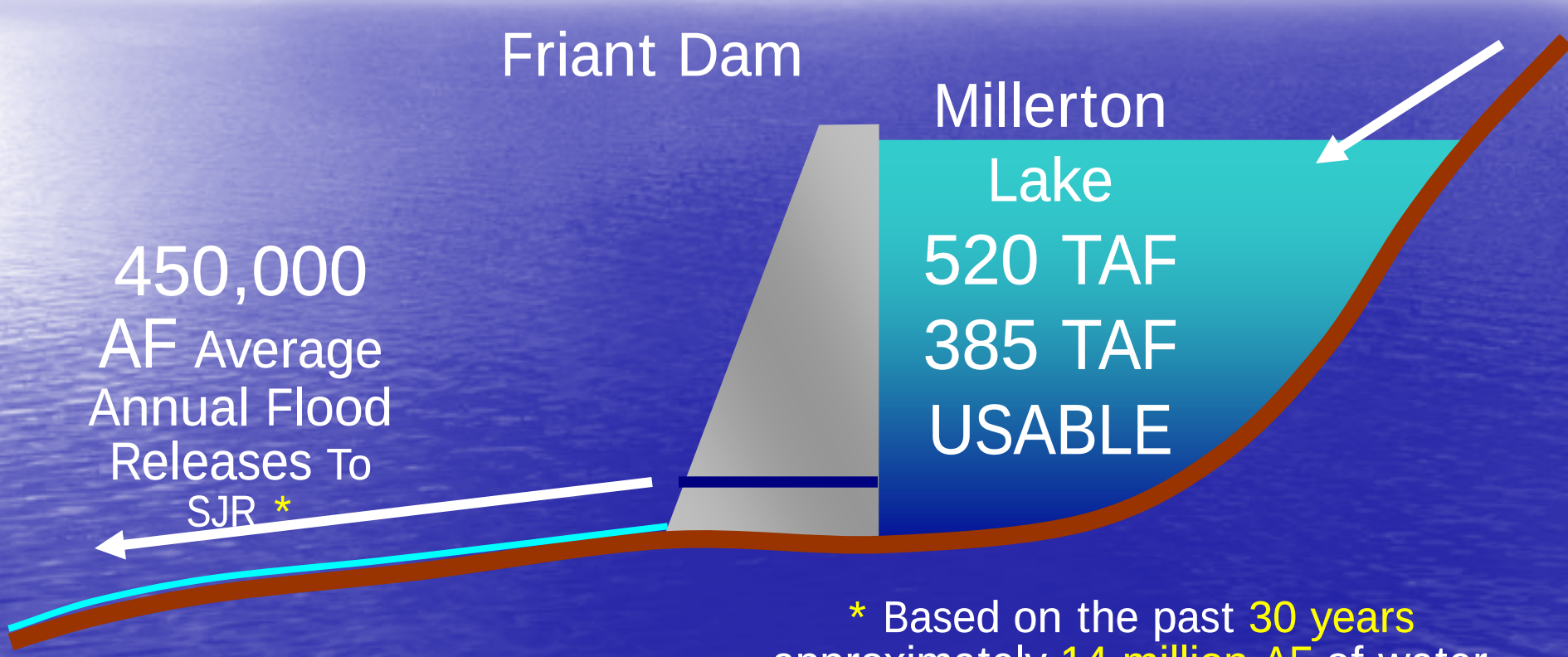


Cumulative Groundwater Storage Change

Friant Division

Flood Releases



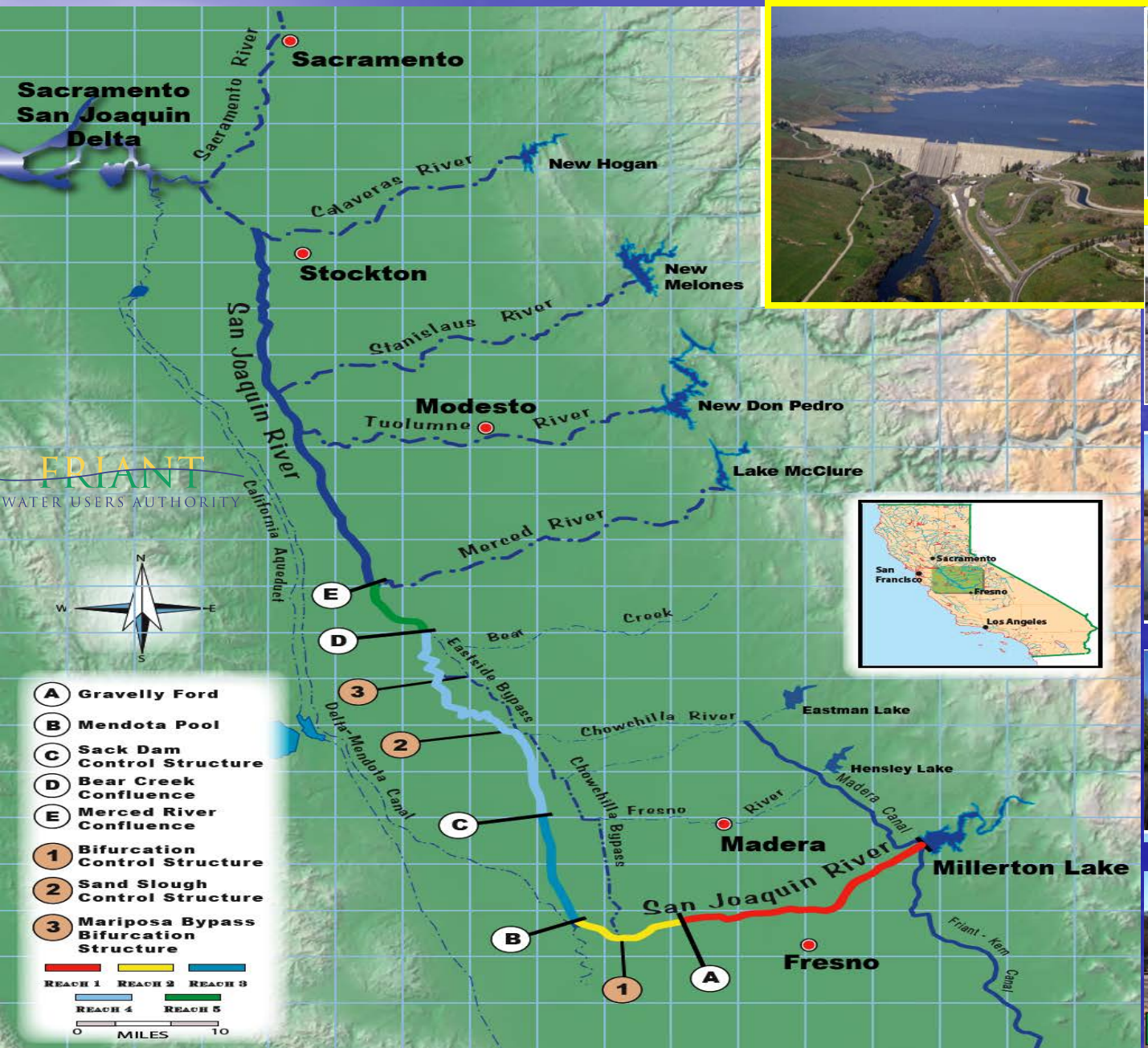


* Based on the past 30 years approximately 14 million AF of water supplies have been lost

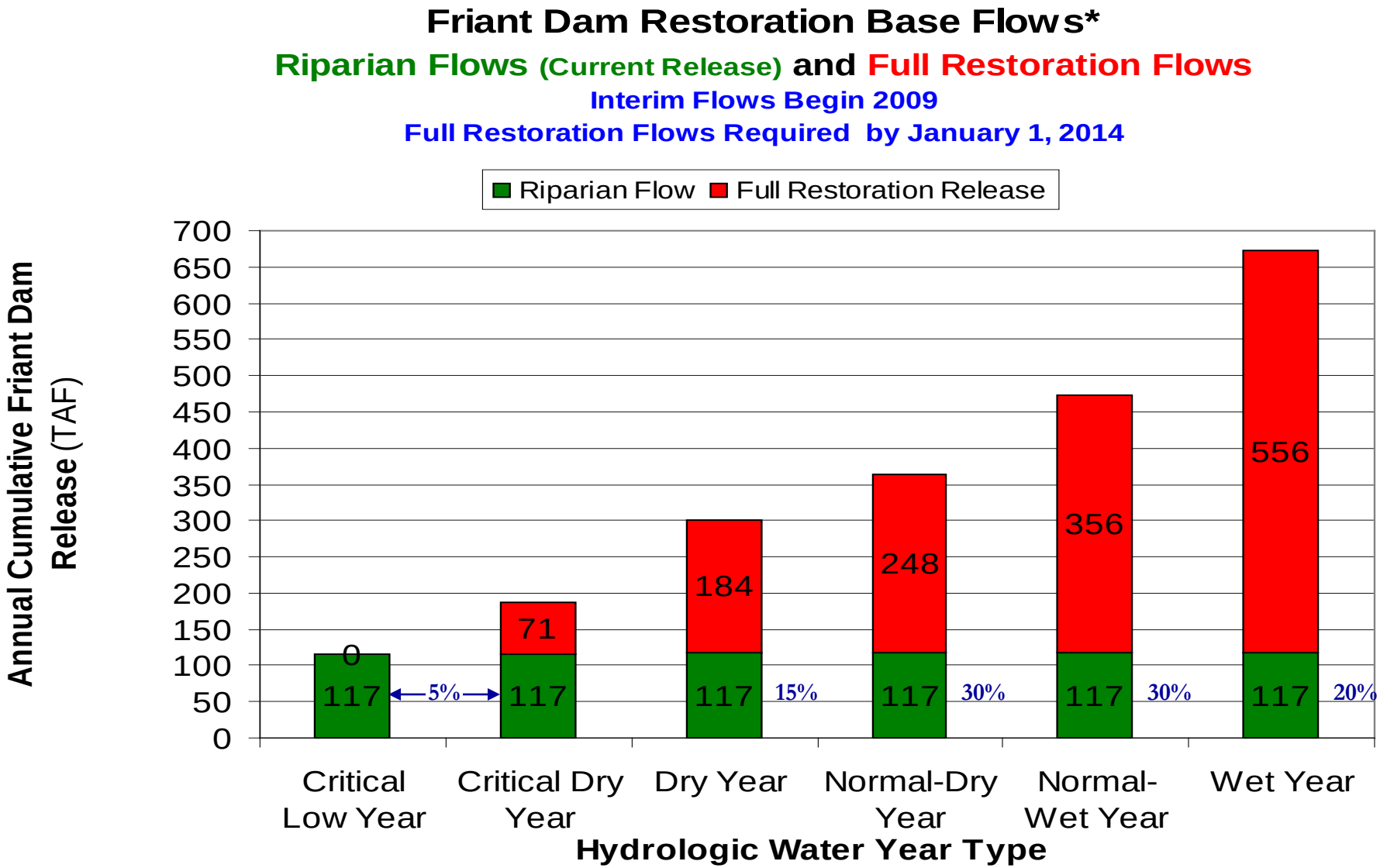
San Joaquin River Settlement

- No Channel Work Initiated Yet – Restricts Releases
- Salmon Reintroduction - Possibly Next Spring
- Restoration Flows Starting 1/1/14 – Manage Unreleased Flows
- About a Third of Released Water Recaptured at Mendota Pool Due to Channel Restrictions
- Estimated Average Annual Water Supply Impact of 200,000 a.f.
- Challenges of Recapture in Delta
- RWA Wet Year Water at Reduced Cost (2010 & 2011)
- Groundwater Program Financial Assistance ($10M in 2013, $50M total)
- FKC/MC Rehab to Design Capacity ($8M in 2014, $35M total)
- Federal Funding Challenges - $900M Budget - $100M Spent

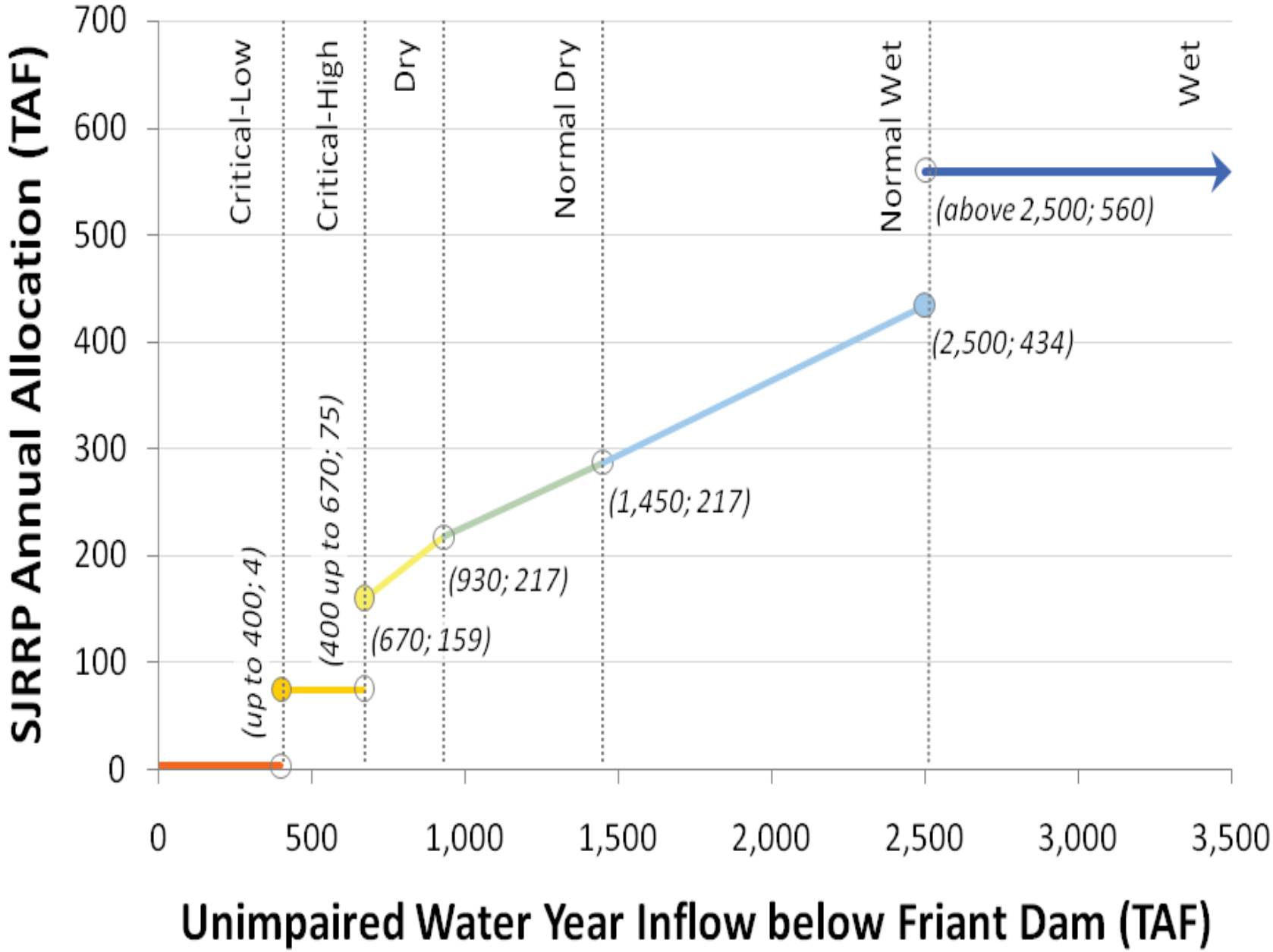
SJR Restoration Sections



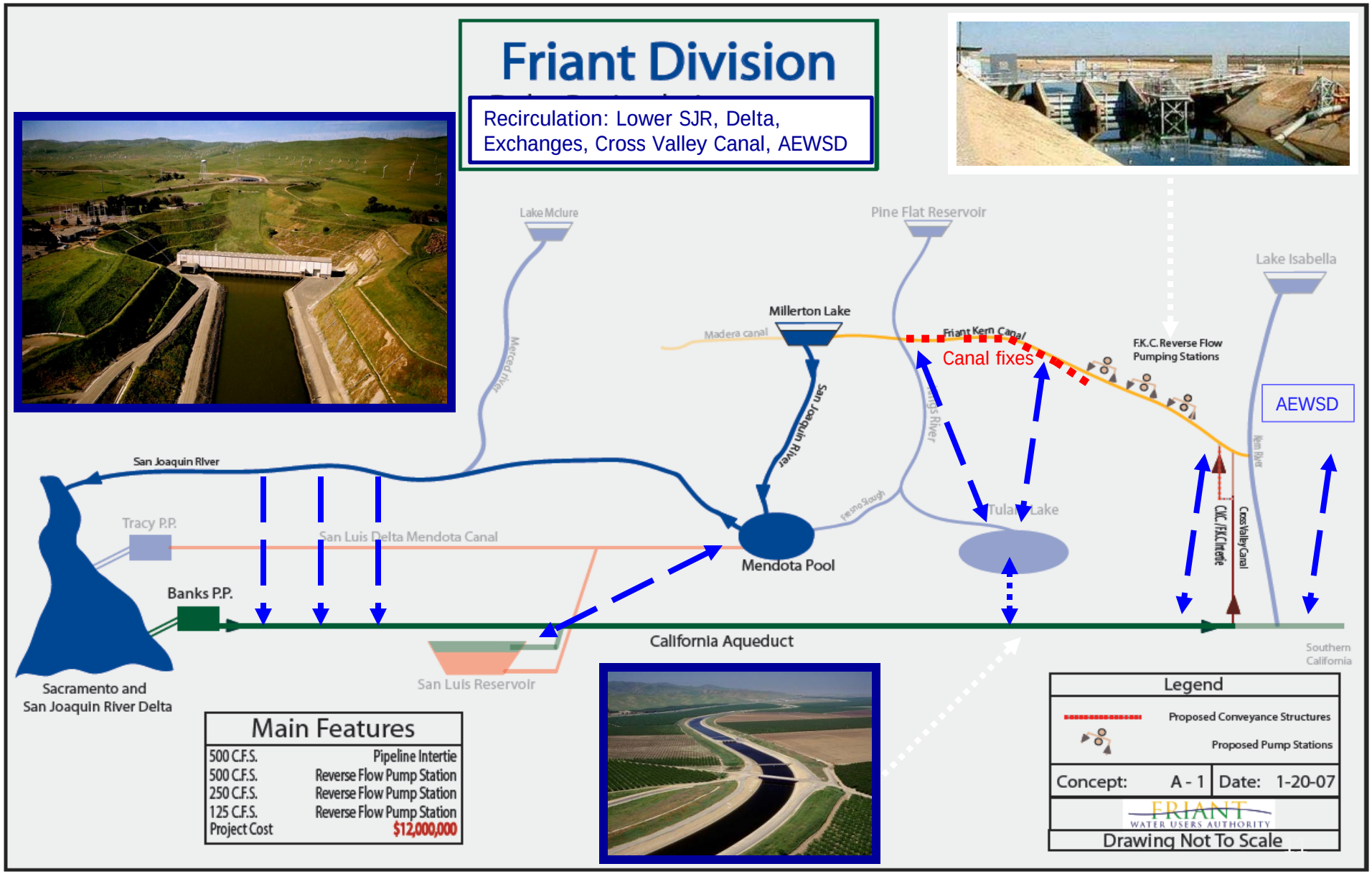
Restoration Flows



* "Buffer Flows" of up to 10% of Base flows may be added in any year


SJRRP Annual Allocation (TAF)
700
600
500
400
300
200
100
0
Critical-Low
Critical-High
Dry
Normal Dry
Normal Wet
Wet
(above 2,500; 560)
(2,500; 434)
(1,450; 217)
(930; 217)
(670; 159)
(400 up to 670; 75)
(up to 400; 4)
0
500
1,000
1,500
2,000
2,500
3,000
3,500
Unimpaired Water Year Inflow below Friant Dam (TAF)

Water Management Goal

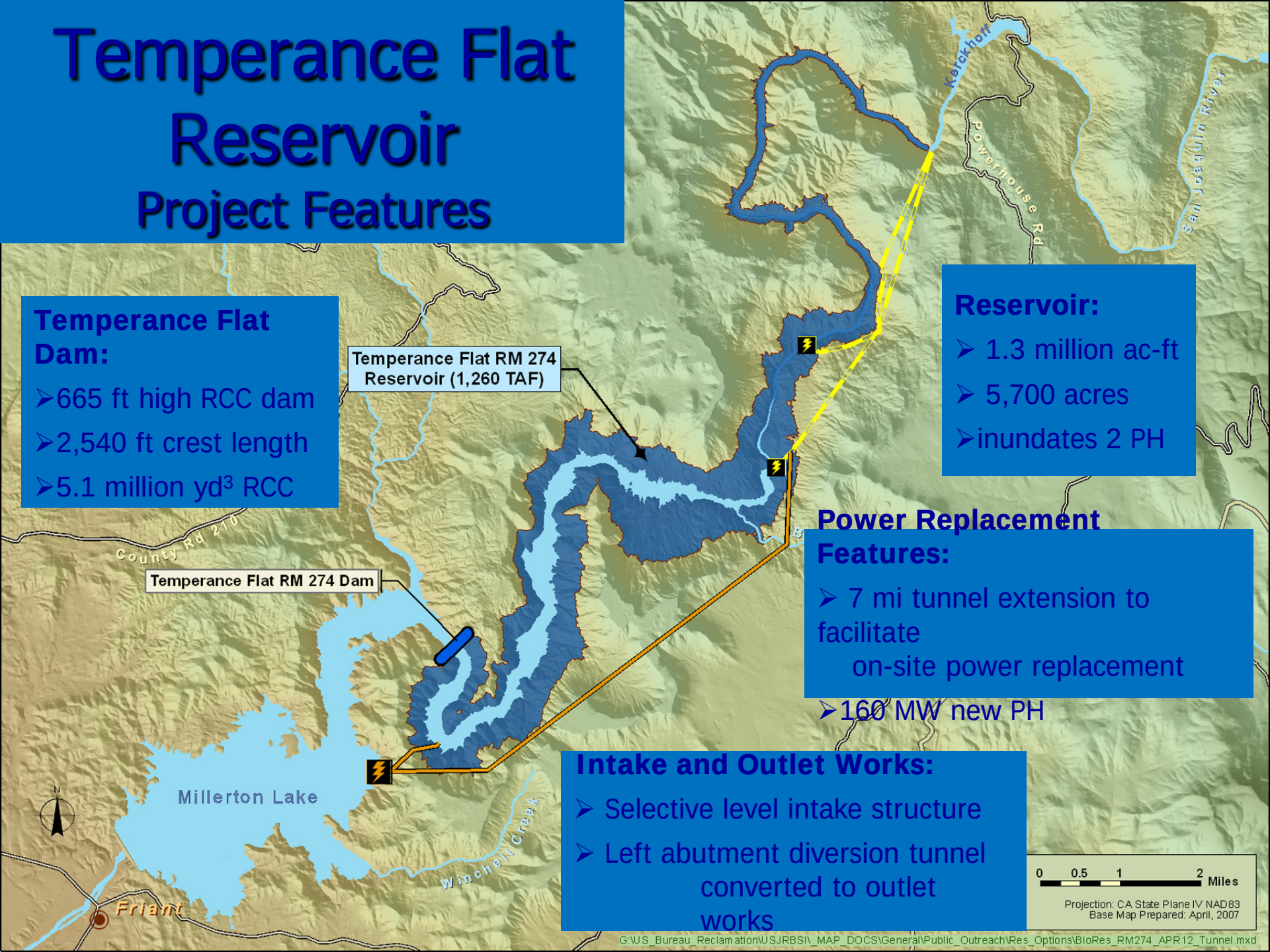


Importance of the Delta to Friant

- 884,000 AF of Exchange Water, which if not met, could come from Friant Supplies
- 128,000 AF of Cross Valley Supplies in Friant Division
- 200,000 AF of SJR Settlement Recirculation Water
- Equitable allocation of costs relative to Benefits

Temperance Flat Reservoir

Project Features



Temperance Flat Dam:

- 665 ft high RCC dam
- 2,540 ft crest length
- 5.1 million yd^3 RCC

Reservoir:

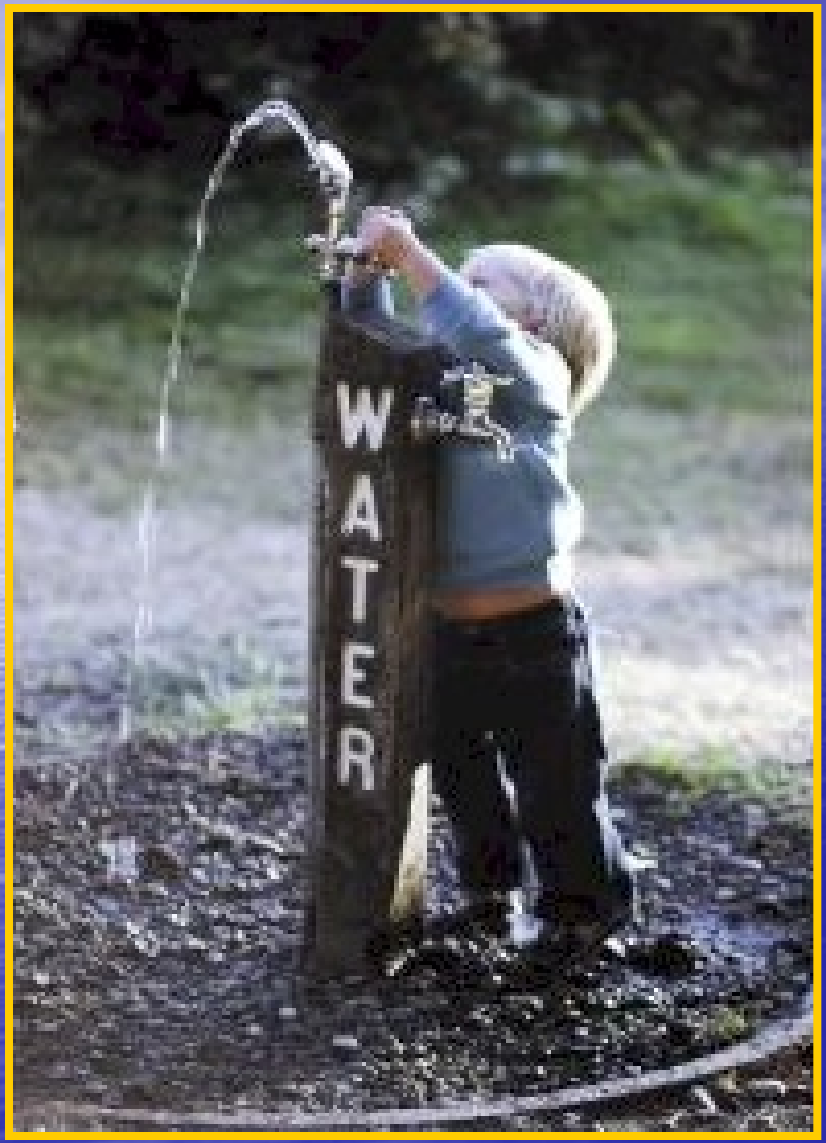
- 1.3 million ac-ft
- 5,700 acres
- inundates 2 PH

Power Replacement Features:

- 7 mi tunnel extension to facilitate on-site power replacement
- 160 MW new PH

Intake and Outlet Works:

- Selective level intake structure
- Left abutment diversion tunnel converted to outlet works



Questions?