

# RECLAMATION

*Managing Water in the West*

## 2015 Drought Operations Central Valley Project



U.S. Department of the Interior  
Bureau of Reclamation

- 
- Central Valley Project Overview
  - Northern CVP Reservoir Operations
  - Temperature Objectives
  - Delta Flows
  - Millerton Reservoir Operations

RECLAMATION



# Authorized Purposes

- Flood Control
- Water Supply
- Fish and Wildlife
- Power Generation
- River Regulation
- Recreation

RECLAMATION

# CVP Water Summary

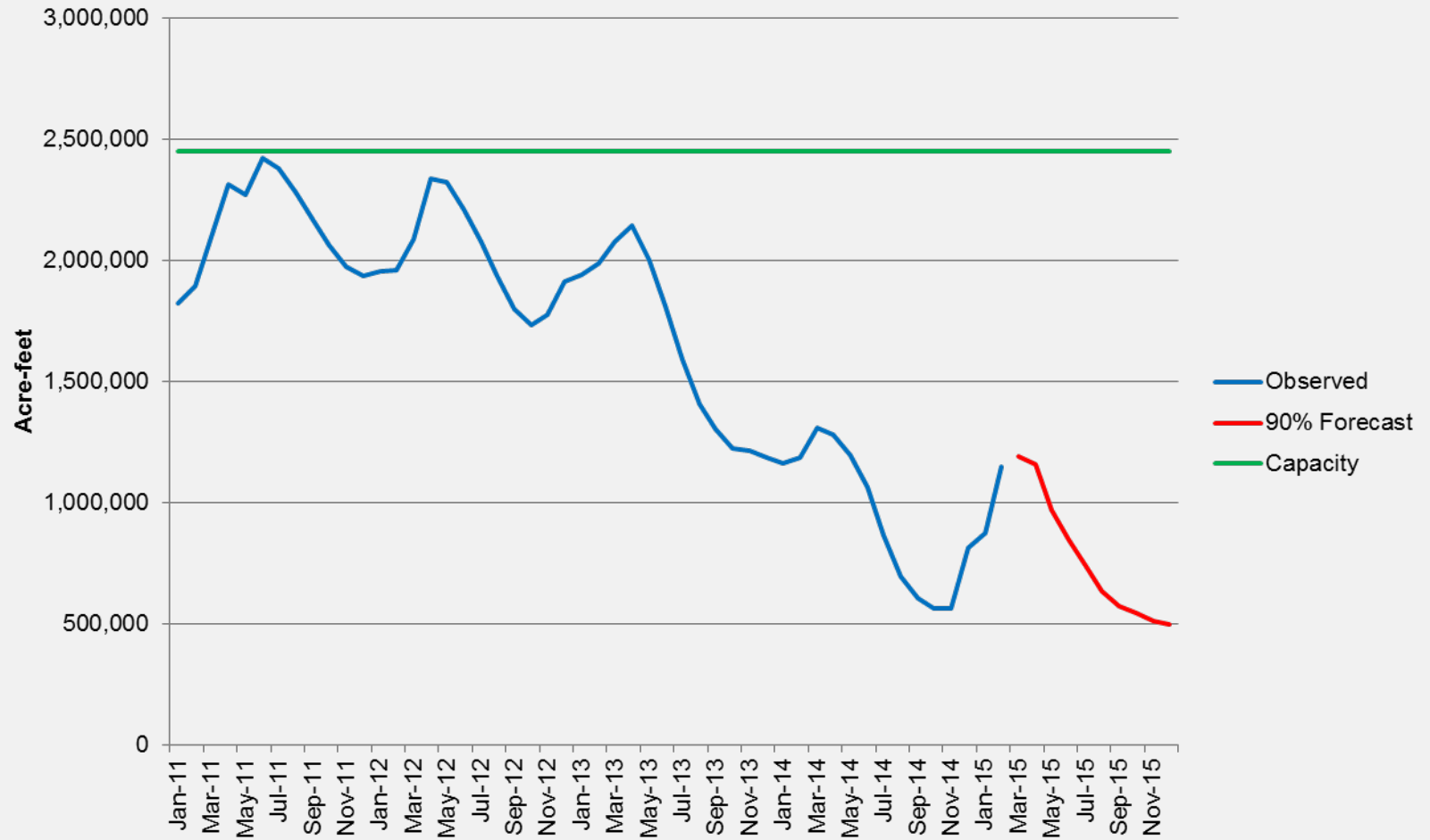
- 20 Dams and Reservoirs
- 500 Miles of Canals
- 11 Powerplants
- 10 Pumping Plants
- 20 Percent of State's Developed Water Supply (about 7 million acre-feet)
- 30 Percent of the State's Agricultural Supply (about 3 million acres of farm land)
- 13 Percent of State's M&I Supply (about 2 million people served)



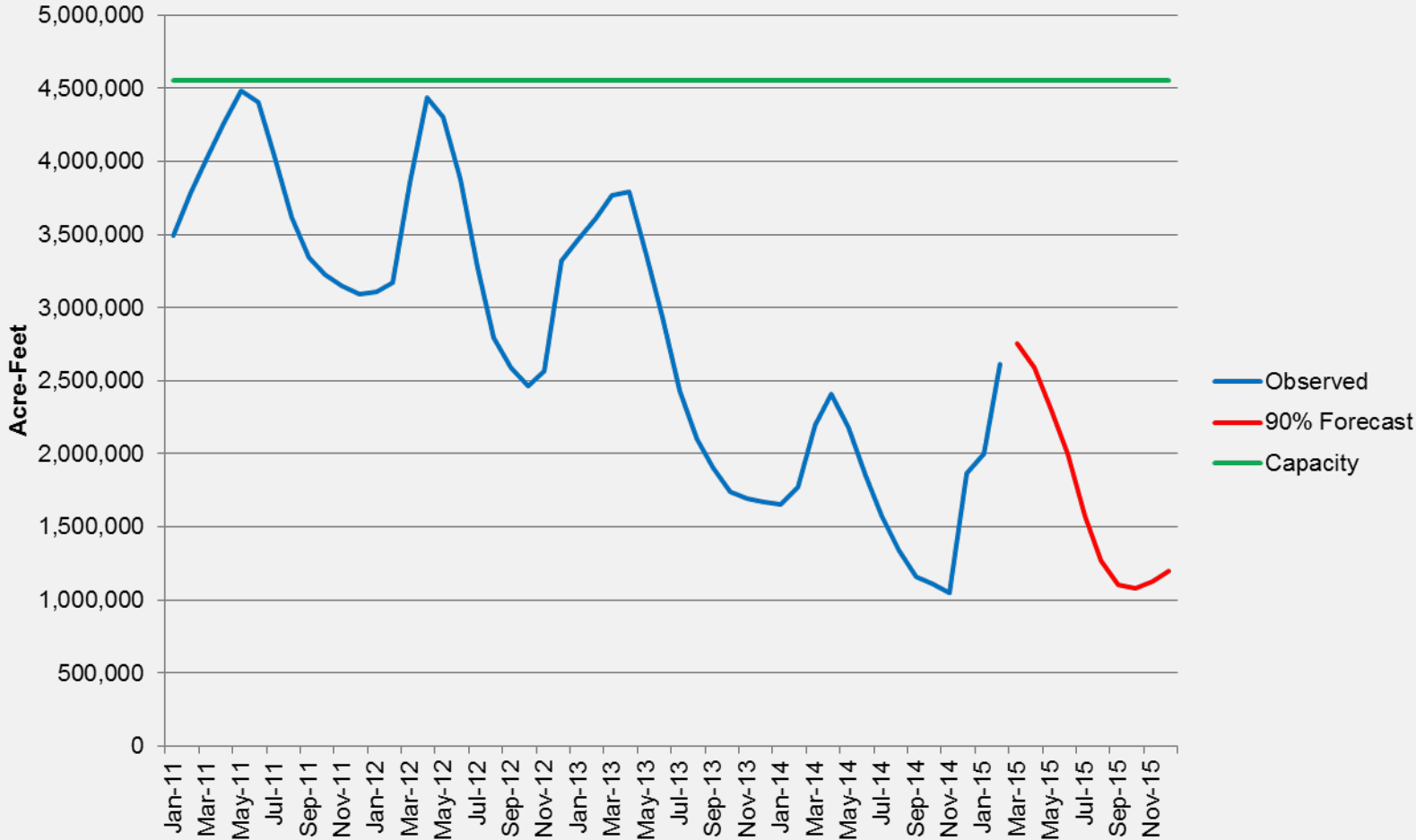
## CVP Major Storage Facilities

RECLAMATION

# Trinity Reservoir Storage

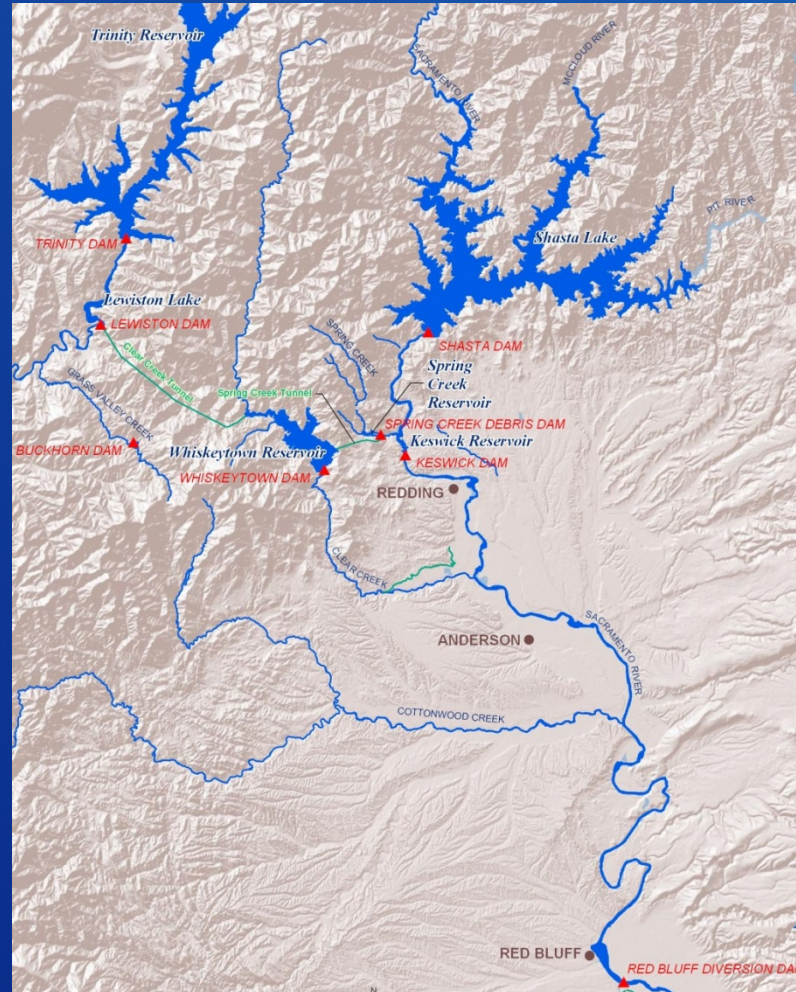


# Shasta Reservoir Storage





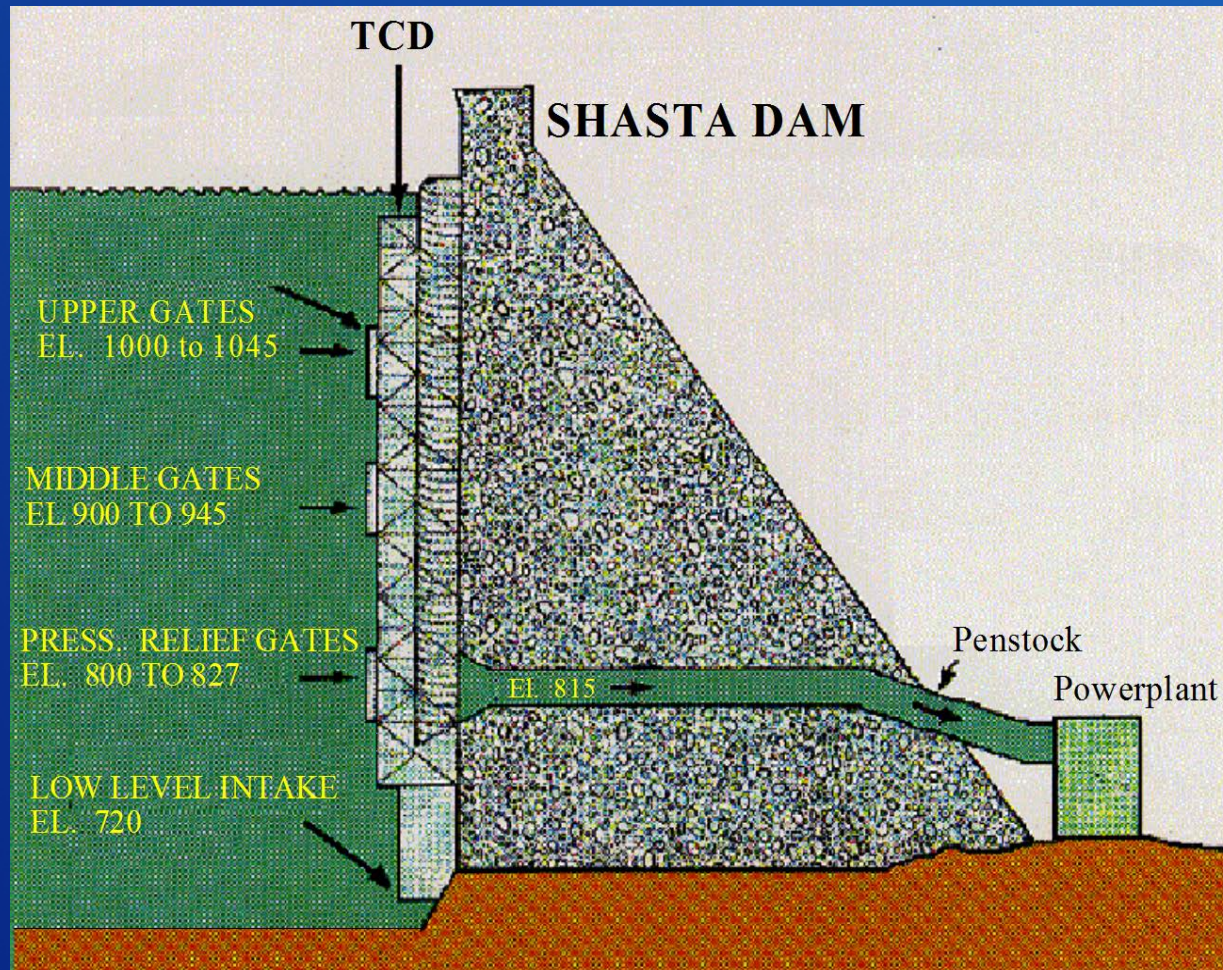
# Sacramento River Temperature Management



RECLAMATION



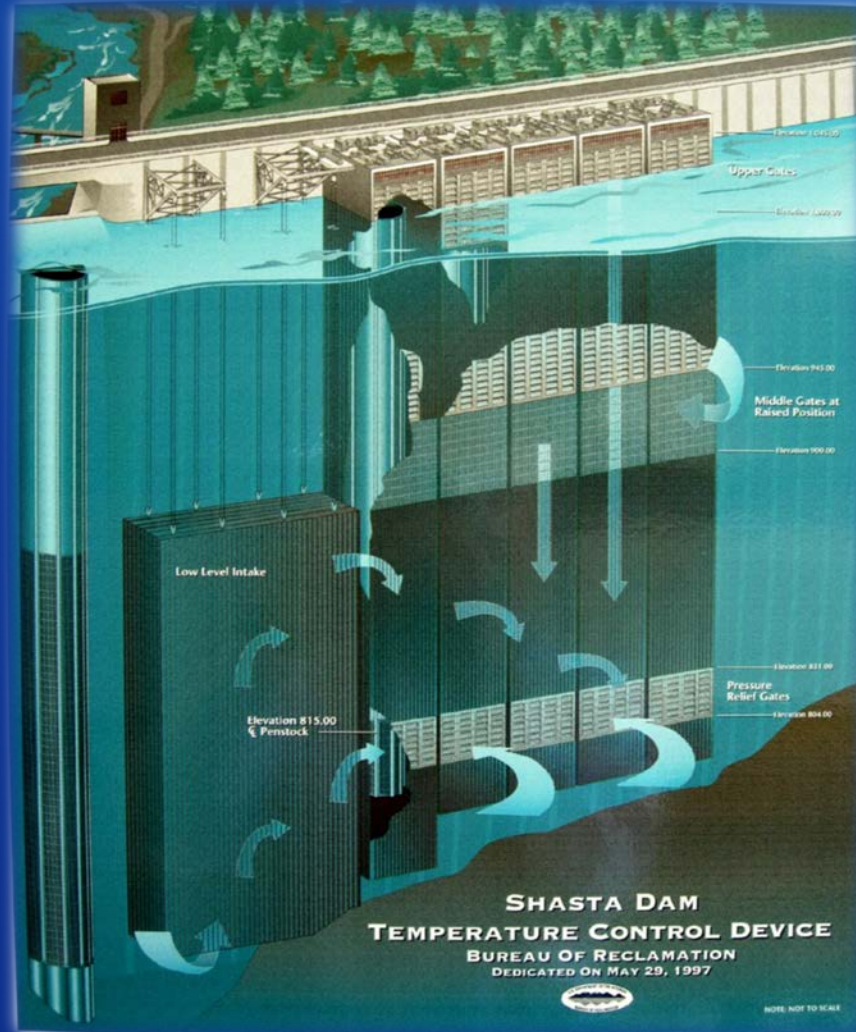
# Shasta Dam TCD Configuration



RECLAMATION

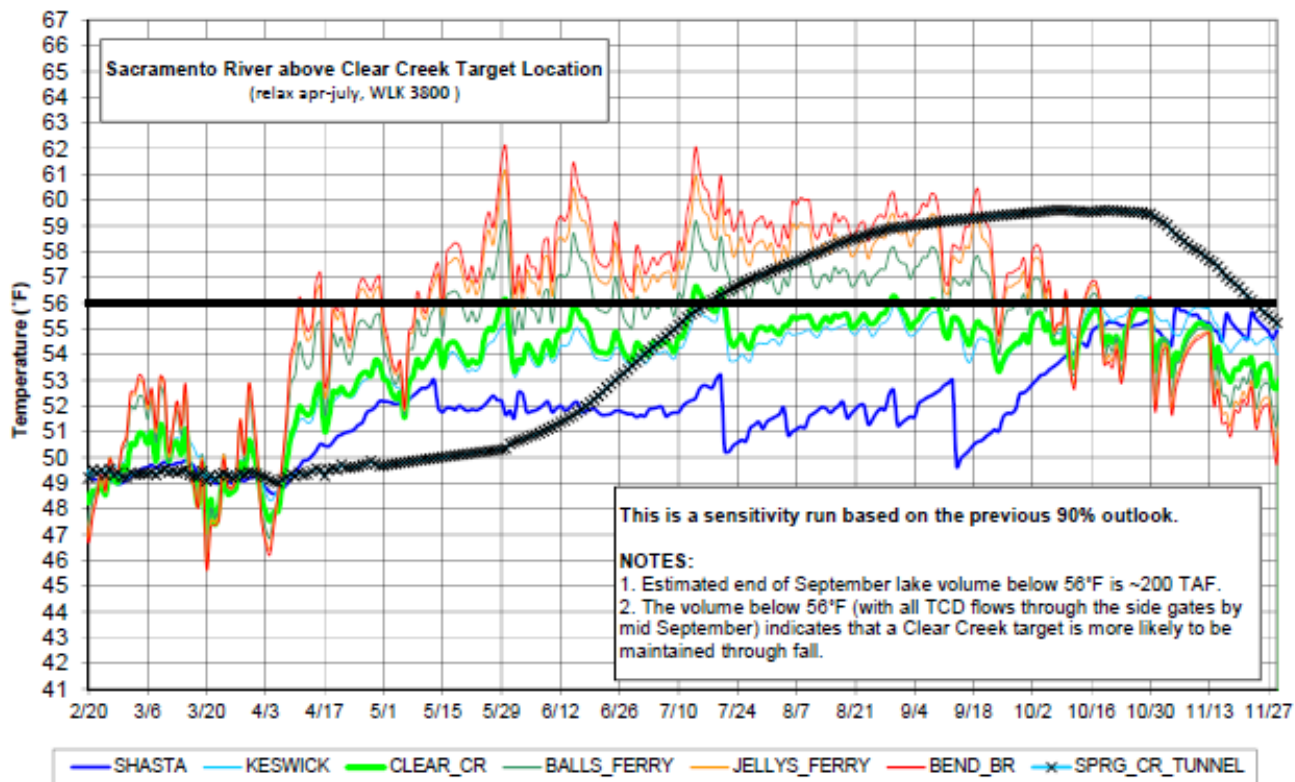


# Shasta Dam TCD



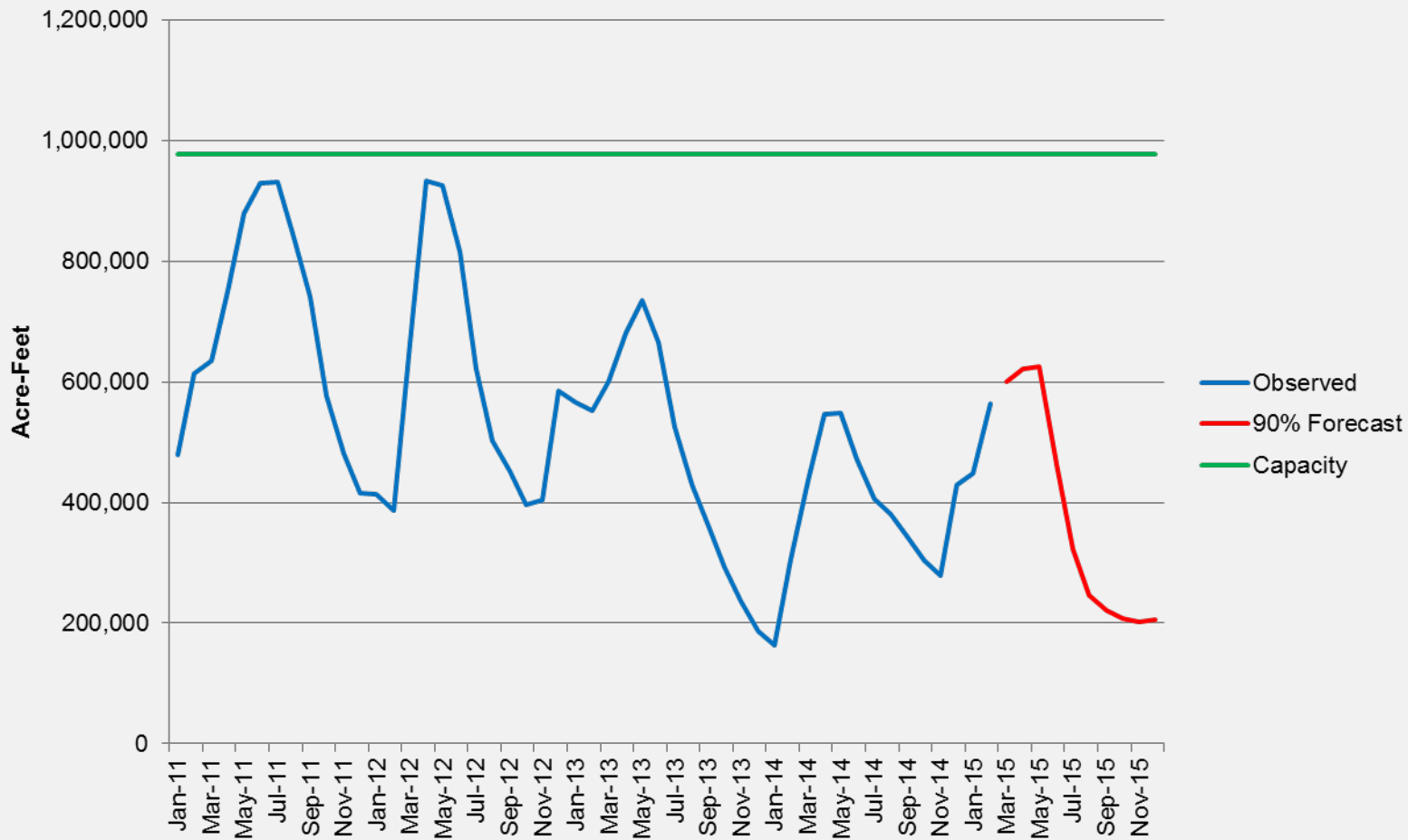
RECLAMATION

**Sacramento River Modeled Temperature  
2015 February 90%-Exceedance Outlook**  
*(With Modified Outflow Objective, WLK & SRSC April diversions)*

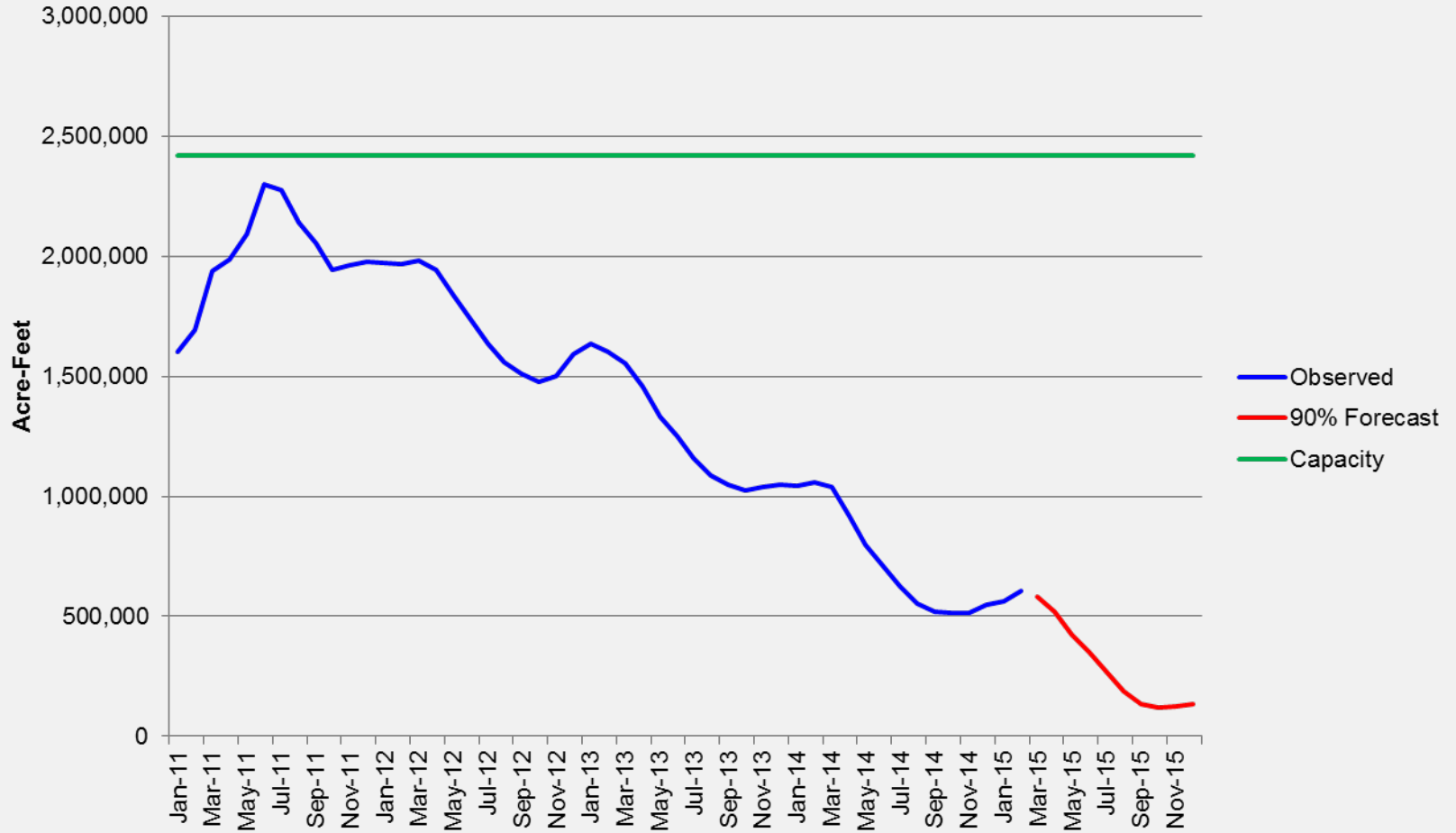




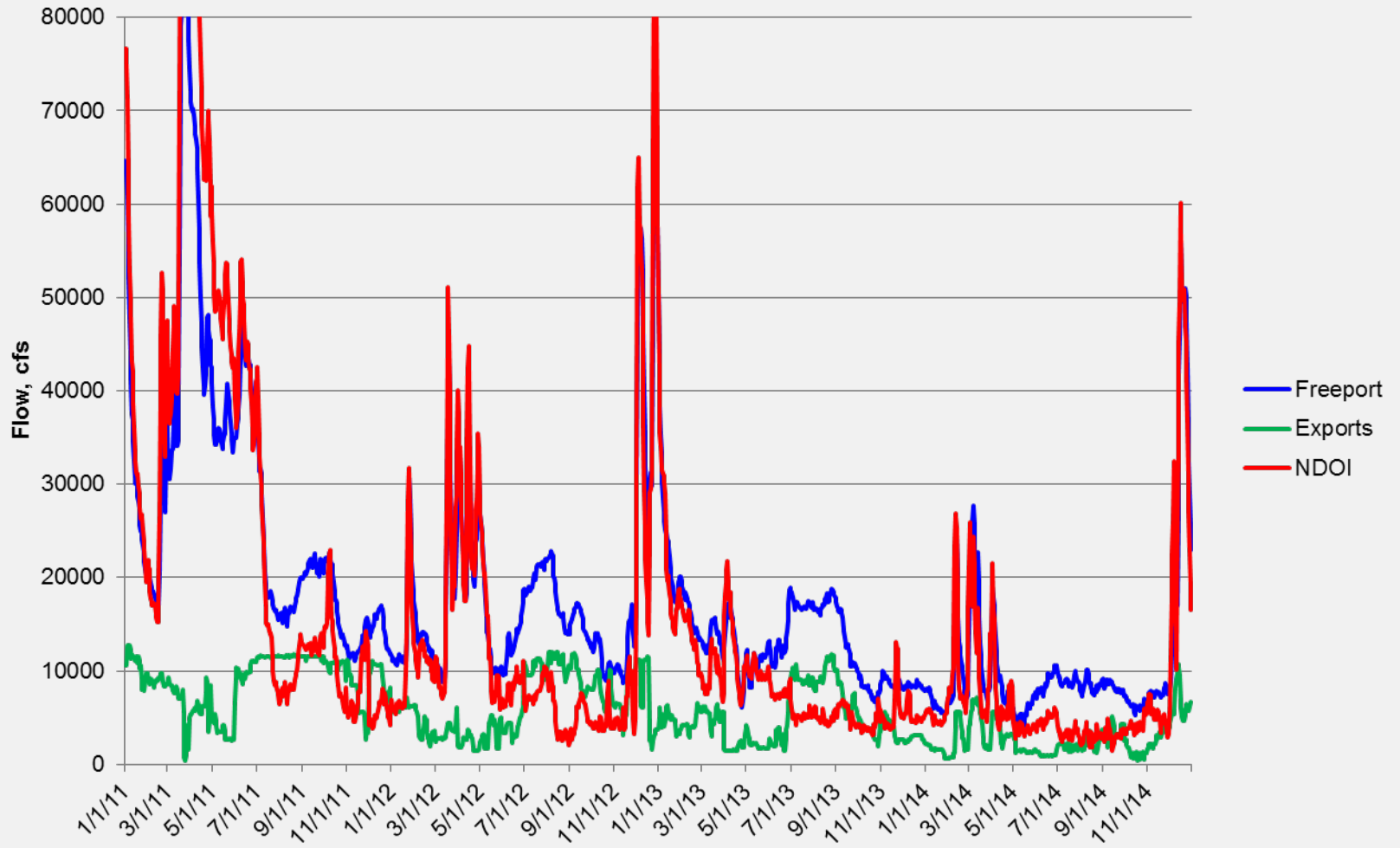
# Folsom Reservoir Storage



# New Melones Reservoir Storage



## Delta Flows



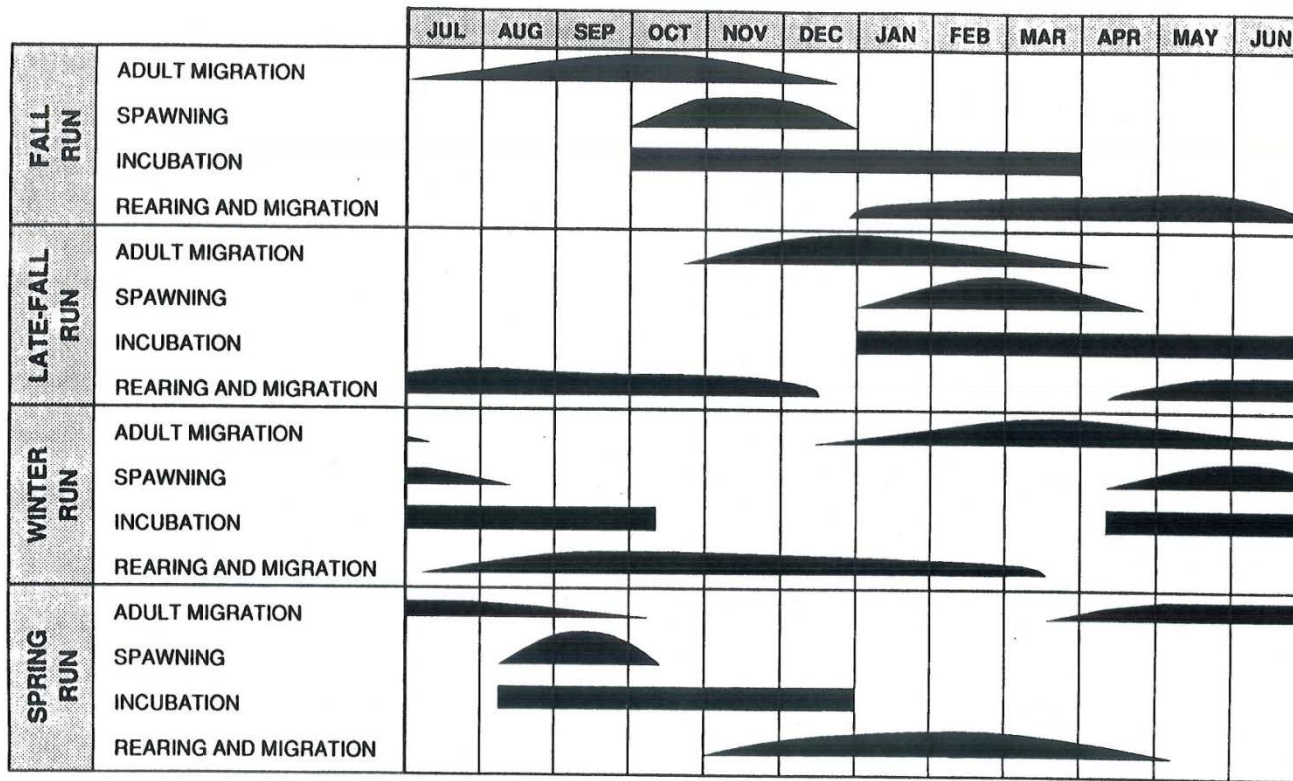
RECLAMATION



An aerial photograph of a large concrete dam with a spillway, situated in a valley. The dam is surrounded by lush green forest and winding roads. In the background, a vast blue reservoir stretches across the landscape, with rolling hills and a prominent snow-capped mountain peak under a clear blue sky. The word "QUESTIONS" is overlaid in large, bold, yellow capital letters in the center of the image.

QUESTIONS

RECLAMATION



**LEGEND**



-  DENOTES PRESENCE AND RELATIVE MAGNITUDE
-  DENOTES ONLY PRESENCE

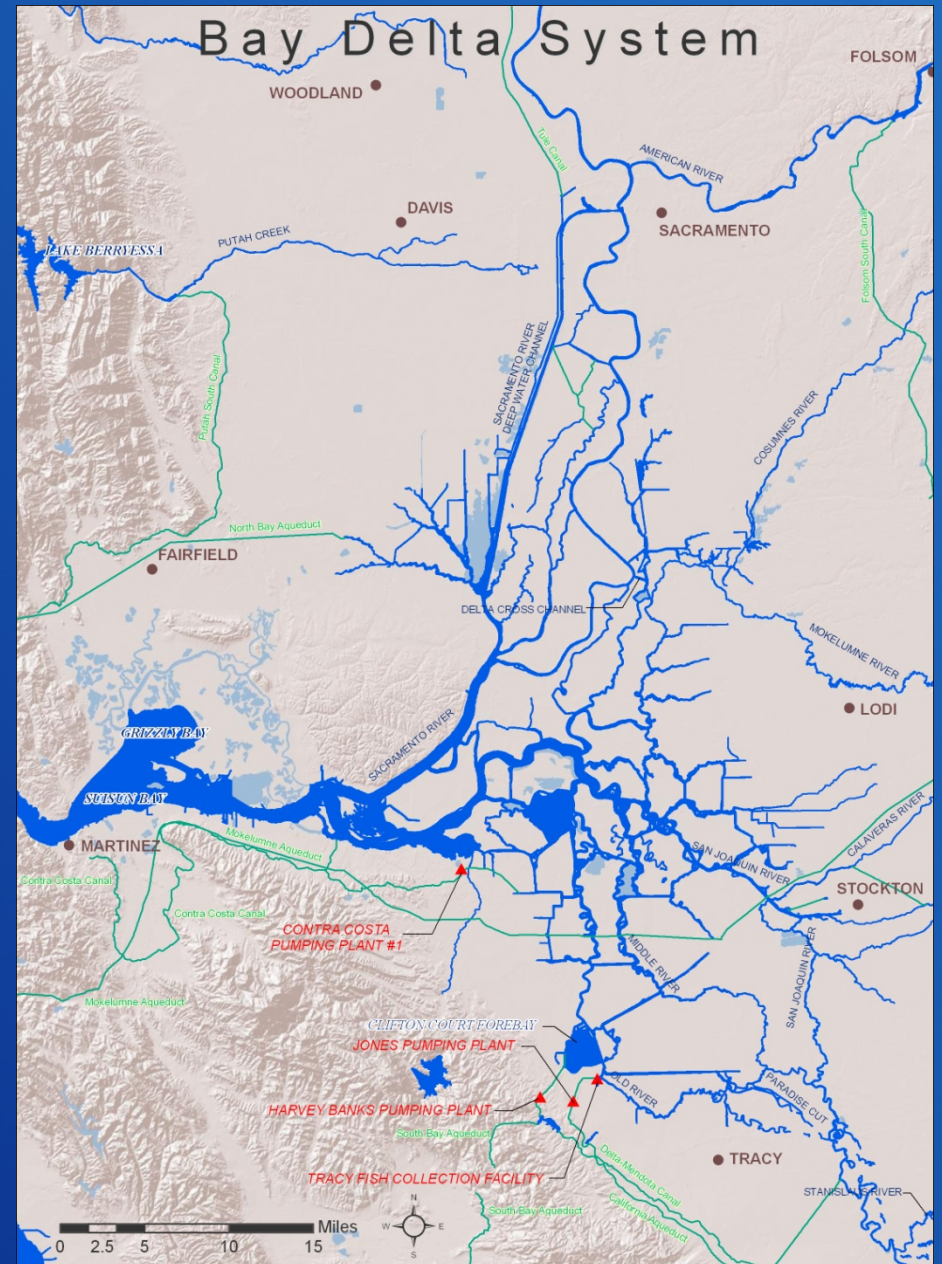
FIGURE 1  
**LIFE HISTORY CHARACTERISTICS OF  
 SACRAMENTO RIVER CHINOOK SALMON  
 AT AND UPSTREAM OF RED BLUFF**  
 U.S. BUREAU OF RECLAMATION

SAC28640.E0

CHM HILL



# The Sacramento-San Joaquin Delta

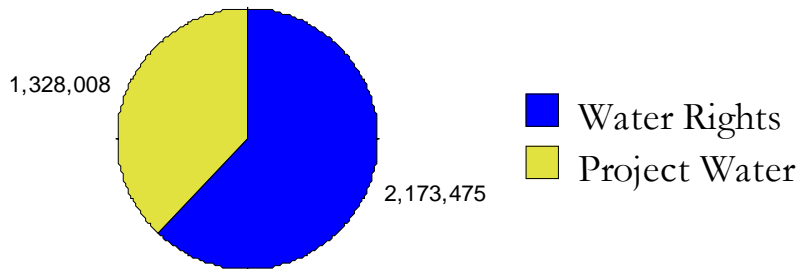


# RECLAMATION

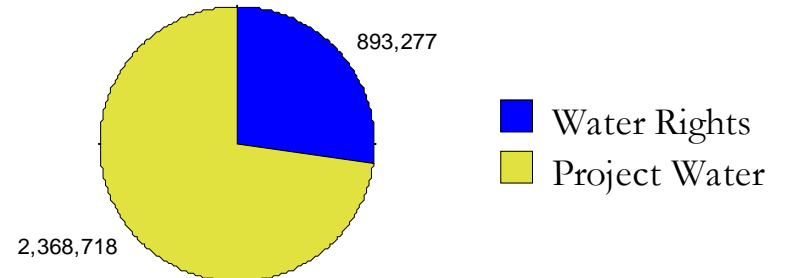


# CVP Contracts

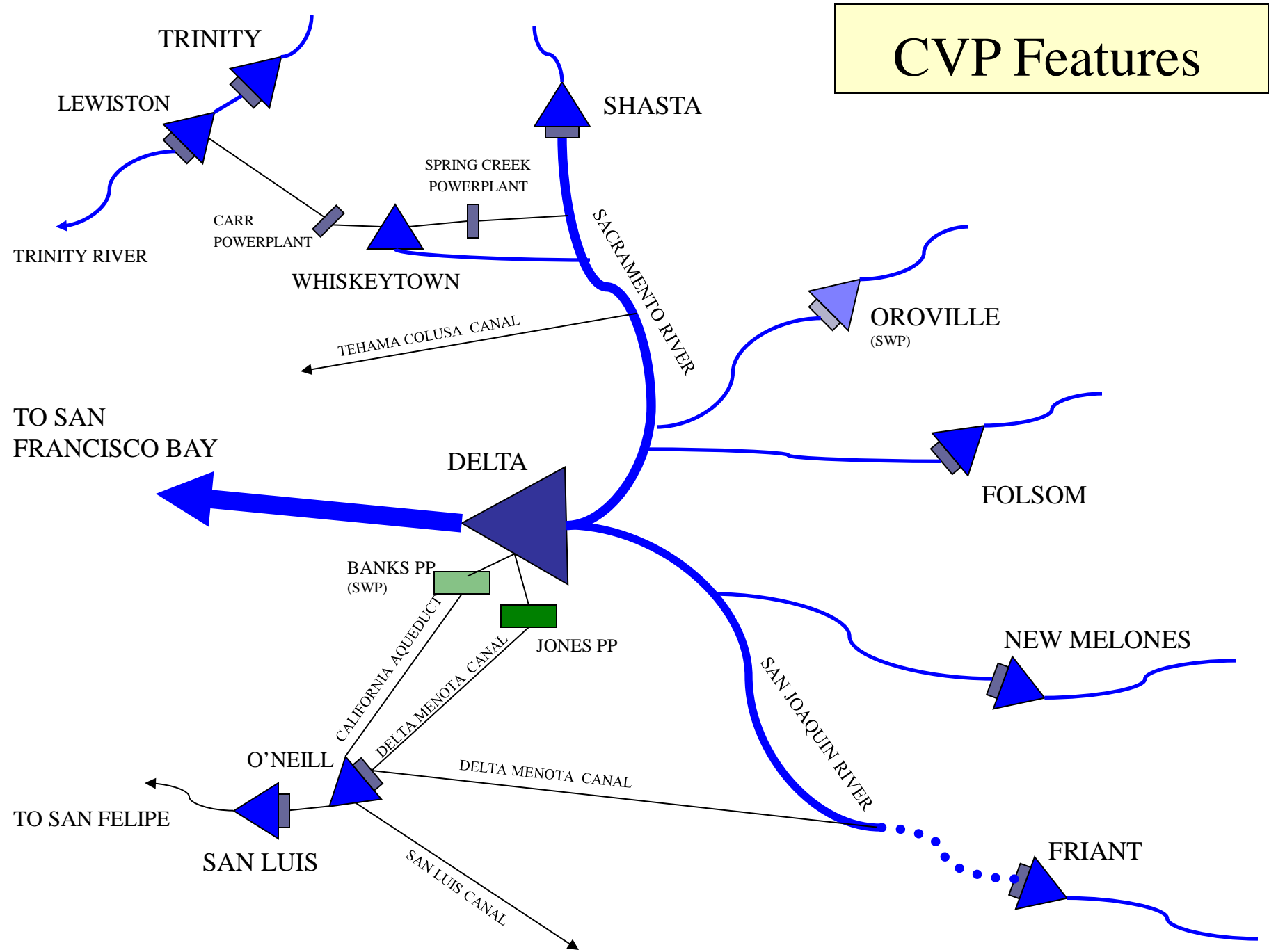
North of Delta Deliveries  
Acre-Feet



South of Delta Deliveries  
Acre-Feet



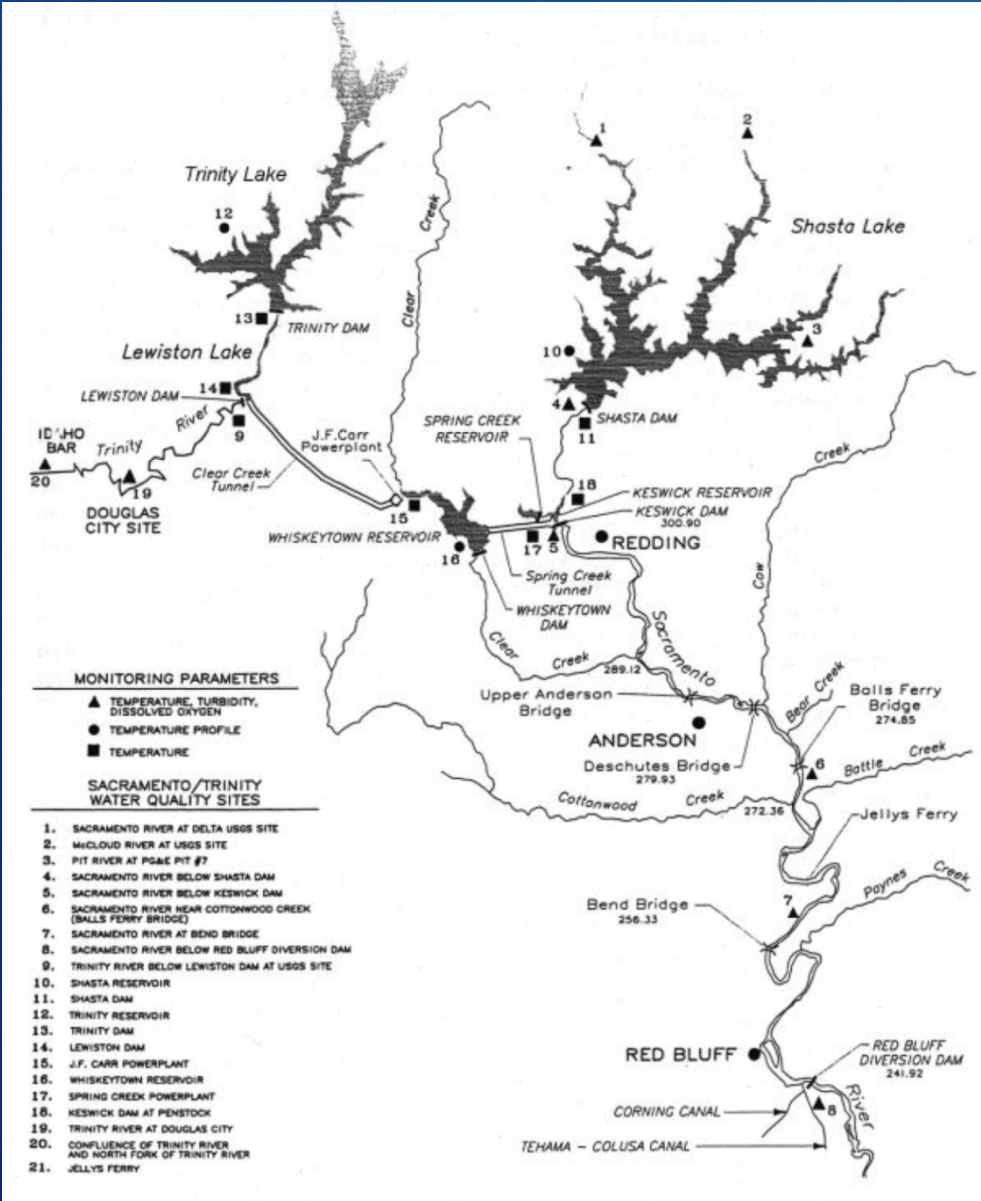
# CVP Features



- Multipurpose Project
- Multiple uses for every drop
- Protect critical uses
- Capture unstored flow
- Multiagency teams to optimize ops
- Flexibility Agreement, use of SLR
- Facilitate Transfers
- Demand scheduling on Sac River
- Folsom Intake protection
- Coor with SJRRP
- Minimum Powerpools, cle 313, sha 587, fol 80, nwm 235,
- SJR modifications



# Sacramento River Temperature Control



RECLAMATION