### **Drought Response:**

**Emergency Drought Barriers in the Delta** 

#### Effects on Delta Levees

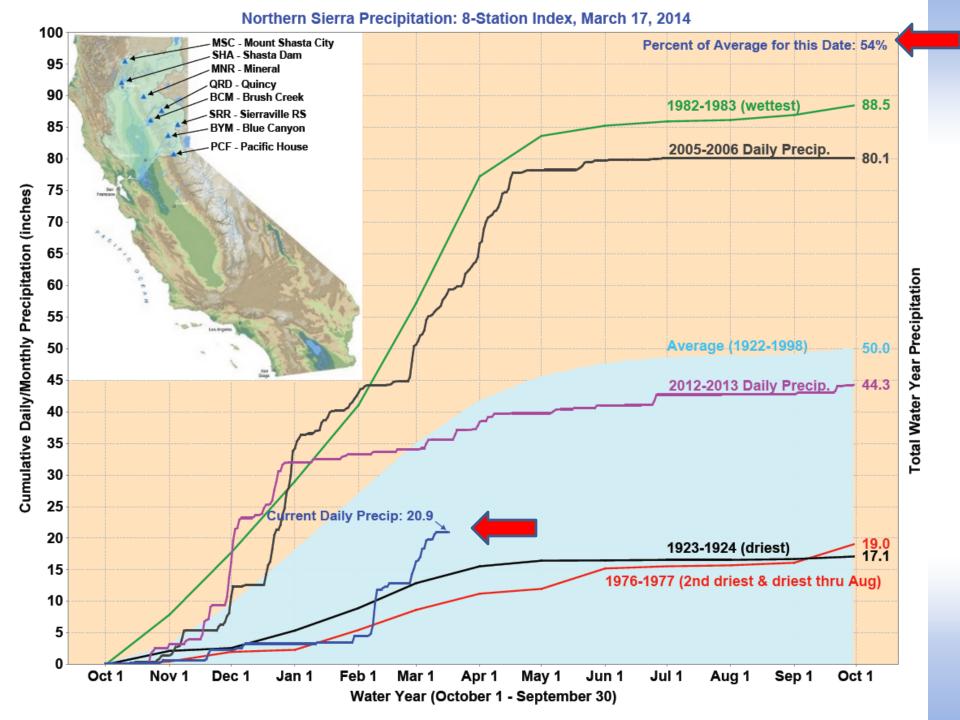
March 28, 2014

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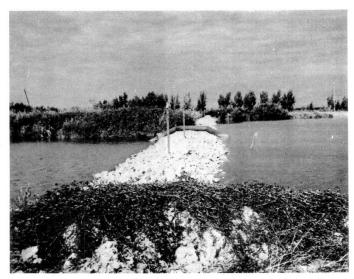
## 1977 Emergency Barriers

- •37 years ago
- California's population
  - •22 million then (1977).
  - •38 million now (2014).
- •The '76-77 barriers helped:
  - Delta farmers
  - City of Antioch
  - City of Tracy
  - Contra Costa WaterDistrict
  - Export water users

dards even though the modification had as one of its purposes the protection of the Delta against future loss of salinity control because of insufficient upstream storage. Before that suit could be tried, it was necessary for the SWRCB to hold an emergency hearing to deal with the fact that actual hydrologic conditions were very much worse than had been projected. Even under the Interim Plan's modified criteria, Lake Oroville no longer would be able to generate electricity by late summer and would end 1977 only 14 percent filled -- an insufficient amount of storage to protect the Delta if the drought continued into

1978.

In early June 1977, the SWRCE issued an emergency regulation which superseded the Interim Delta Quality Control Plan by temporarily eliminating most water quality standards and limiting SWP exports to unstored water. The regulation was necessary to preserve Oroville storage levels to the greatest extent possible. This emergency regulation was to have terminated no later than December 31, 1977, but with some modifications was extended in mid-December because of continued low reservoir levels.



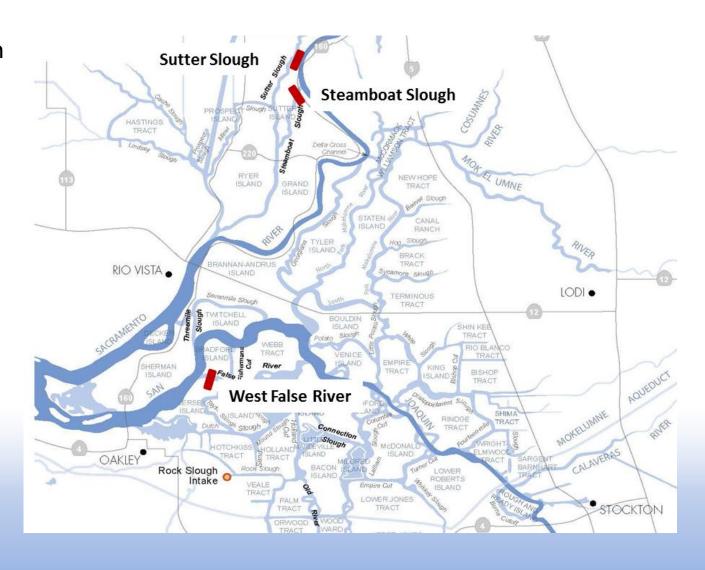
Dams in the Delta. Two barriers, one at Rock Slough (shown) and the other at Indian Slough, actually saved water during the drought. By redirecting fresher water to the Contra Costa Canal Intake, less water had to be released from upstream reservoirs to maintain the same level of water quality.



# Proposed Emergency Drought Barriers for 2014

- Sutter Slough
- SteamboatSlough

False River

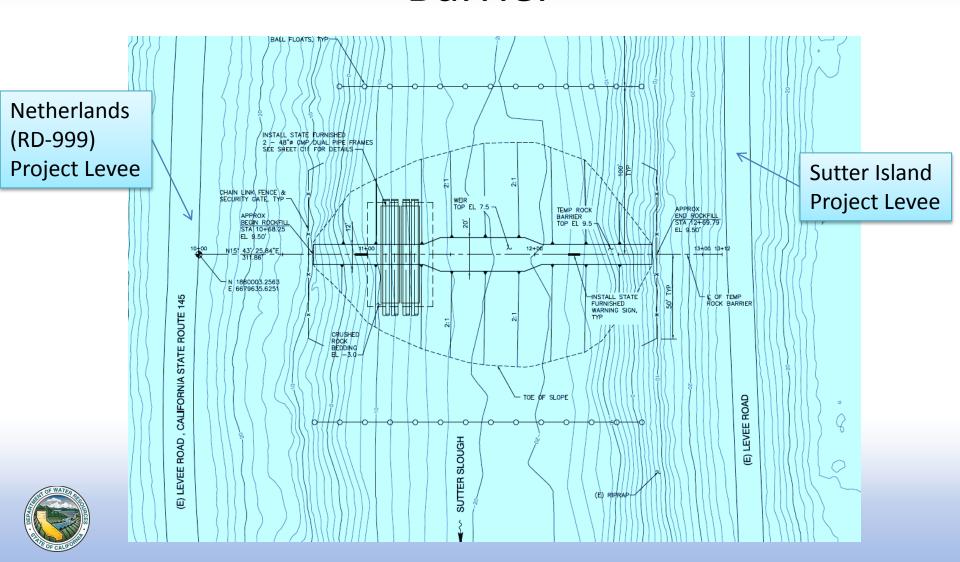




# Steamboat Slough Emergency Drought Barrier



## Sutter Slough Emergency Drought Barrier

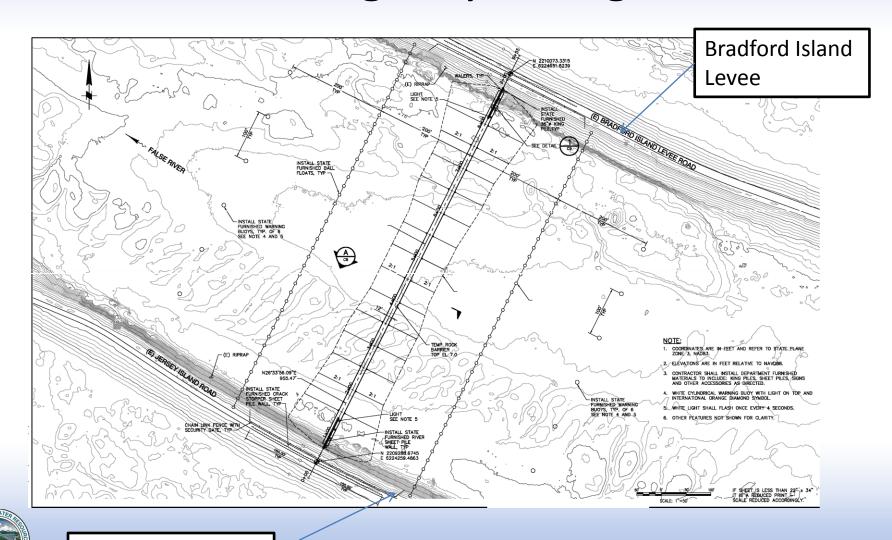


#### Steamboat and Sutter EDB

- Small waterways
- Mineral soil foundations
- Contain water passage and fish passage features
- DWR is handling EDB construction
- DWR is coordinating permits
  - Will file CVFPB application
  - -404/408



# False River Emergency Drought Barrier





#### False River EDB

- RDs Preparing their Levees with State funding
- Obtaining all necessary permits
- Contracting levee work

- DWR Contractor build EDB
- Reinforce levees with sheet piles
- Connect EDB to levees



# Drought Response: Emergency Drought Barriers in the Delta

- Barriers will:
  - Extend the beneficial use of stored water.
  - Allow the State to meet commitments to cities and farms inside the Delta and, also, in areas receiving Delta water.

Questions?

