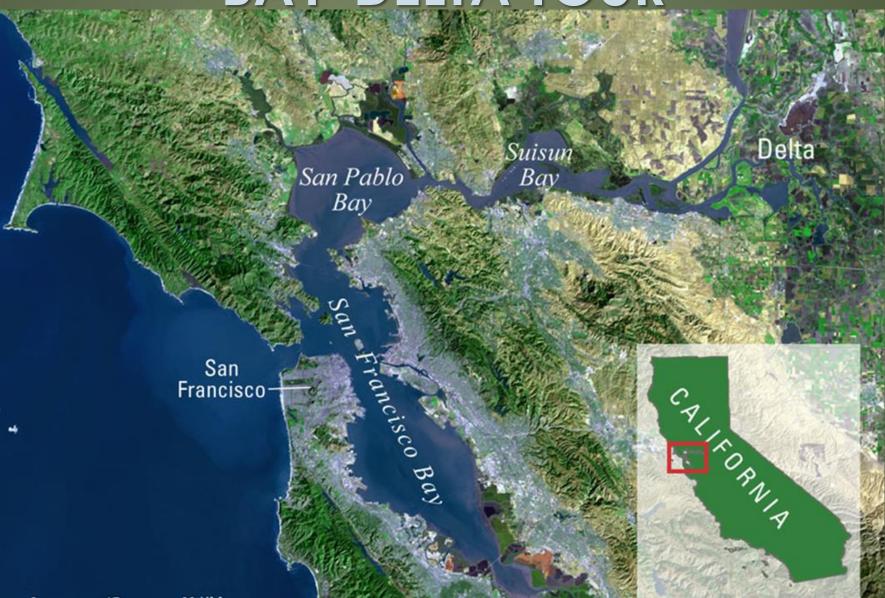
# Water Education Foundation BAY-DELTA TOUR

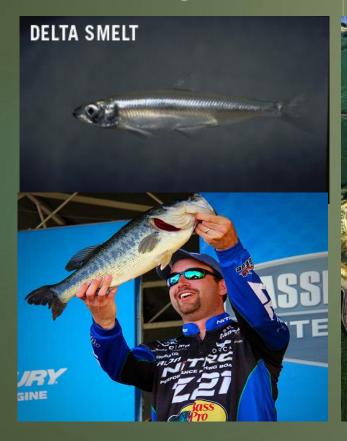


### Tour Focus

- Ecology of the Bay and the Delta
- Delta Water and Land Uses
- Environmental Issues and Restoration Efforts
- Water Export Operations
- Debate over California Water Fix

# Or in Simpler Terms

## Fish



# Farming

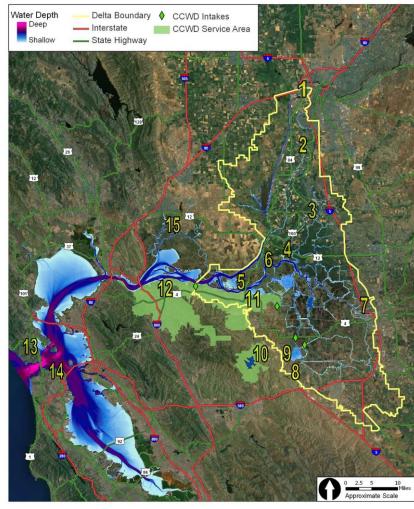


### Flow



# Bus Tour Itinerary





### Day 1

- 1 West Sacramento
- 2 Clarksburg
- 3 Delta Cross Channel
- ♣ Isleton Farmers Market
- 5 Sherman Island
- 6 Twitchell Island
- 7 Stockton

#### Day 2

- 8 CVP Jones Pumping Plant
- SWP Fish Salvage Facility
  and UCD Fish Conservation
  and Culture Lab
- 10 Los Vaqueros Reservoir
- 11 Big Break Regional Shoreline
- 12 CCWD Bollman Water Treatment Plant

#### Day 3

- 13 Bay Model, Sausalito
- 14 Aquarium of the Bay
- 15 Rush Ranch

#### 2015 Water Education Foundation Bay-Delta Tour Map

3 days

12 educational stops

4 facility tours

33 Individual lectures

and.....



## Bay Delta Issues

- Fragile Levees
- ► Water Quality
- ► Declining Environment
- ▶ Restricted Water Exports

### Who cares?

- ▶ Environmentalists
- ▶ Delta Farmers
- ▶ Central Valley Farmers
- ► Sports and Food Industry Fishing
- ► The Majority of Central and Southern California

# How Does This Impact PWD?

- ▶ Declining Reliability of Exports
- ► Environmental Restoration Costs
- ► Water Quality Impacts
- ▶ Potential Disruption of Service

# Invasive Species

- Over 250 invasive plant and animal species.
- Considered "the most invaded estuary in North America"
- It is estimated a new species is introduced every 14 weeks on average.







# Los Vaqueros Reservoir – Contra Costa Water District

- Developed to improve supply an quality for CCWD's 550,000 customers.
- ► Originally constructed in 1997 to hold 100,000 Acre Feet of water.
- ► Upgraded to hold 165,000 Acre Feet in 2012.
- A third and final stage will increase the reservoirs capacity to 275,000 Acre Feet.



# Los Vaqueros Reservoir – Contra Costa Water District



# Los Vaqueros Reservoir – Contra Costa Water District



# Army Corp of Engineers Bay Model



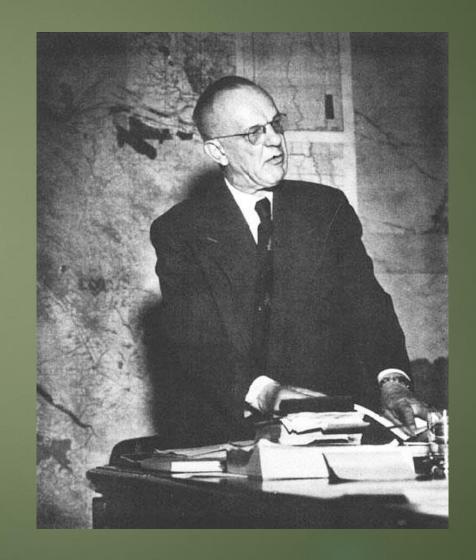
# Army Corp of Engineers Bay Model

- ▶ Built in 1957 to study "The Reber Plan"
- ▶ 1.5 Acres in size.
- Simulates tidal flows in the Bay-Delta area.
- Now serves as an educational site of both historic and existing Bay Delta information.



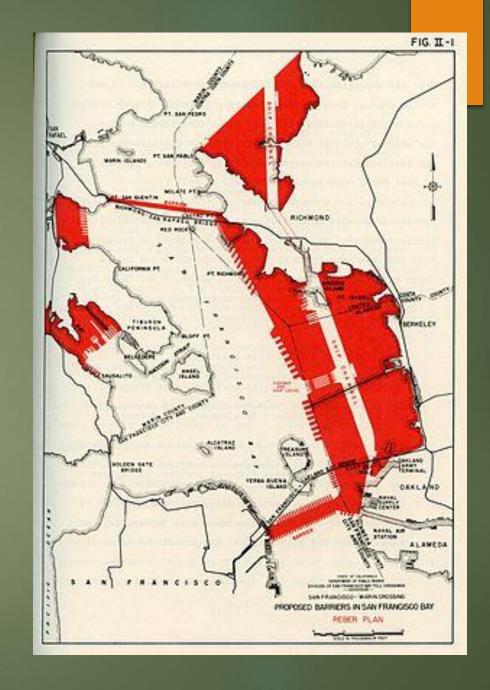
### The Reber Plan

- After World War II John Reber pushed hard for support of a plan to drastically change the Bay Delta.
- The plan would have placed two dams in the bay to capture 2.4 million gallons of fresh water.
- ► It would have added 20,000 acres of new land.
- ► It would also have prevented salt water intrusion in Delta farm lands.



### The Reber Plan

- Despite prominent backers such as Herbert Hoover the plan was never adopted.
- Opponents believed that it would lead to a water shortage for California
- The Bay Model also indicated that it cause significant damage to the Bay.



### Rush Ranch and Suisun Marsh

- ► The Rush Ranch is an operating cattle ranch of 200 acres.
- It is situated next to the Suisun Marsh and provides educational access to the Marsh.
- The Suisan Marsh is protected, improved and maintained by the Bay Conservation and Development Commission.
- ► The marsh is critical habitat for many endangered species.



## Rush Ranch and Suisun Marsh



### Sherman Island

- Sherman Island is a marsh area that is located near the convergence of the Sacramento and the San Joaquin Rivers.
- ▶ It is a prominent recreation area for windsurfing and fishing.
- ▶ It is a key area that is measured and adjusted to provide good habitat for endangered fish.



### Water Education Foundation

- ► Founded in 1977 to create a better understanding of water issues and solutions through education.
- They provide water relevant publications, workshops, conferences and tours.
- They are overseen by a panel of 29 board members from a wide range of water interests.



# Jones Pumping Plant





## Fish Conservation and Culture Lab





# Tour Wrap Up

