### SWRCB Workshop Southern Delta Salinity Objectives January 16 and 19, 2007



Department of Water Resources

#### Introduction

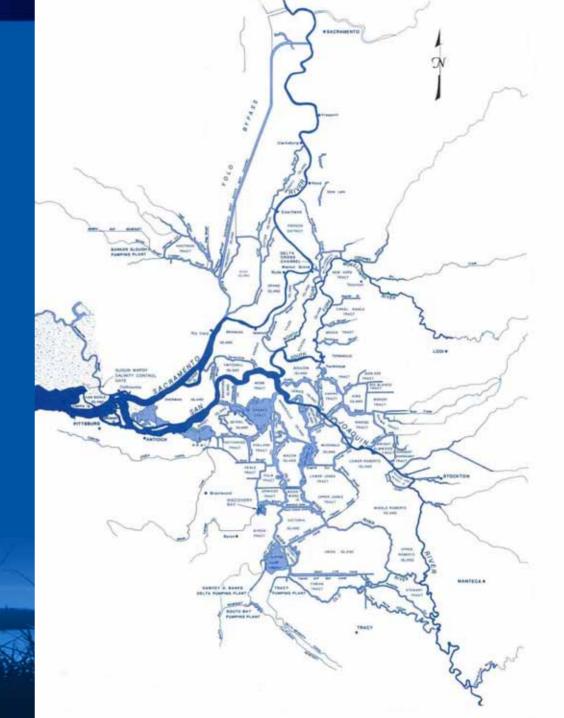
- Overview of SWP and CVP Facilities
- Historical Salinity Levels in the Delta
- Effects on Salinity in the Southern Delta
  - Delta Simulation Model 2
  - Particle Tracking Model Animations
- Discharges in the Southern Delta
- Crops and Irrigation Intakes in South Delta
- Temporary Barriers and Permanent Gates
- Future Study Needs
- Implementation Methods

## **SWP/CVP Facilities**





# **Delta Inflow and Exports**





### Historic Salinity Levels in Delta

- Investigation of Delta salinity initiated in 1920's due to increasing seasonal salinity intrusion
  - Dry hydrology in 1917 and 1919
  - Increasing agricultural diversions upstream reducing inflow
- In dryer years inflow insufficient to meet Delta consumptive use demands
- •1931Salinity intrusion well into South Delta
  - 1000 ppm chloride in Middle River near Old River
  - Significant Crop damage due to salinity throughout Delta

