Report on Actions and Recommendations of the Central Valley Salinity Committee

Dr. Karl Longley, Member Central Valley Regional Water Quality Control Board



Participants

Salinity Committee

- Michael Boccadoro
- Celeste Cantu
- Steve Chedester
- Jerry Johns
- Karl Longley
- Steve Macaulay
- Jerry Meral
- Dan Odenweller

Supporting Staff

- Pamela Creedon
- Les Grober
- Tom Howard
- Gordon Innes
- Beth Jines
- Ken Landau
- Barbara Leidigh
- William Rukeyser
- Rudy Schnagl
- Vicky Whitney

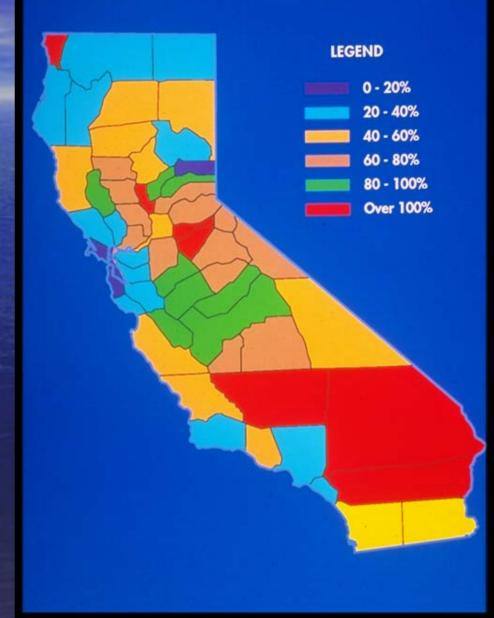
Authors of Report

- Gail Cismowski
- Wayne Cooley
- Les Grober
- Jim Martin
- Matthew McCarthy
- Rudy Schnagl
- Anthony Toto

Population

- Projected Increase
 2005-2020 = 39%
- Agriculture
 - Major Industry
 - Related Job Loss
- Income
- Poverty Levels
- Unemployment
- Loss of Farmland

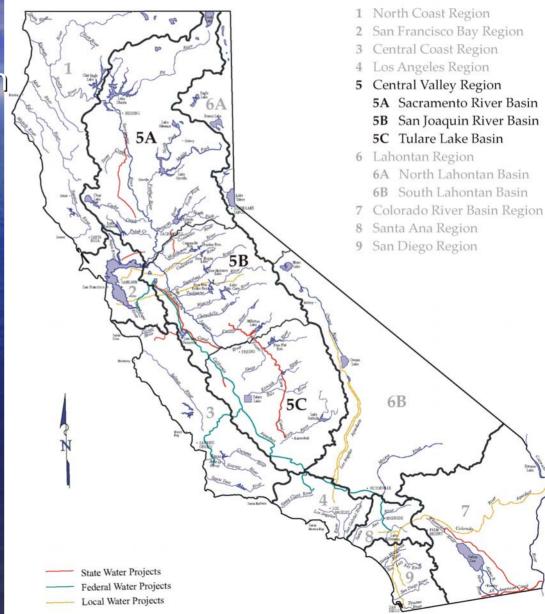
PROJECTED GROWTH RATES BY COUNTY, 1995 TO 2020



Regional Water Quality Control Boards

- Region 5 Central Valley
 - Sacramento River Basin
 - San Joaquin River
 Basin
 - Tulare Lake Basin

State of California Water Quality Control Regions and Basins



Government, Regulators, and Other Policy Makers

Federal

Environmental Protection Agency

- Bureau of Reclamation
- Fish and Wildlife Service



Local

- Water Agencies
- Sanitation Districts
- County Planning and Building Departments

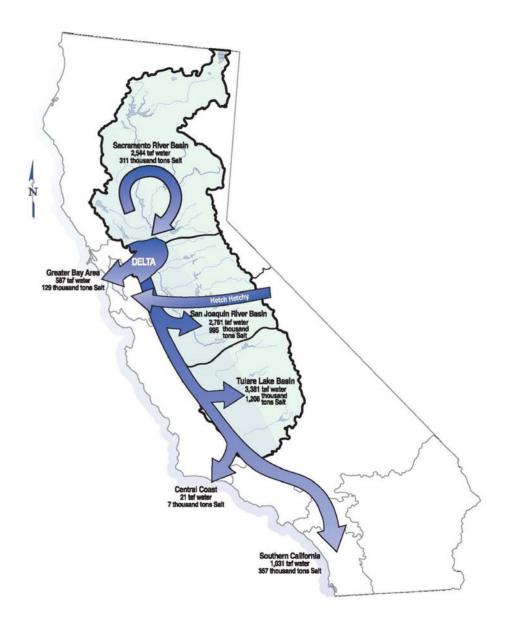


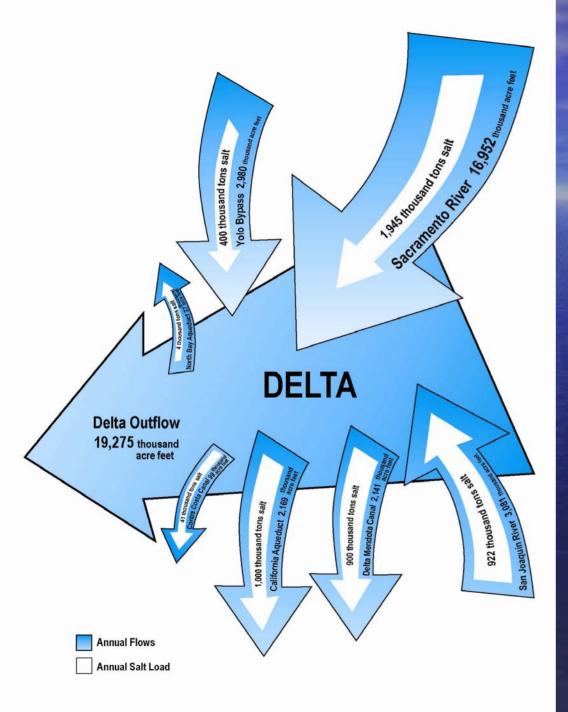
State

State Water Boards
Dept of Water Resources
Dept of Fish and Game
Bay Delta Authority

Water Deliveries

- Projects
 - State Water Project
 - Central Valley Project
 - Hetch Hetchy
- In Valley
 - Sacramento River
 Basin
 - San Joaquin River
 Basin
 - Tulare Lake Basin
- Out of Valley
 - Greater Bay Area
 - Central Coast
 - Southern California





The Delta

Inflows

- Sacramento River
- San Joaquin River

– Yolo Bypass

Outflows

- California Aqueduct
- Delta Mendota
 Canal
- Contra Costa Canal
- North Bay Aqueduct
- Outflow to Bay

Consumptive Use of Water Increases Salinity

 Requires development of a multi-sector salt management policy

 Allows continued enjoyment of the beneficial uses of water

Protects beneficial uses for future generations

 Promotes economic growth and the development of jobs

Activities Contributing to the Salinity Problem

- Agricultural Water Users
- Urban Water Users
- Rural Water Users
- Environmental Water Uses
- Industrial Users
- Water Providers



Sources of Salt

- Salt Additions
 - Fertilizers and Soil Amendments
 - Food Processing
 - Municipal Wastewater
 - CAFO's including Dairies
- Groundwater Pumping
 - San Joaquin River Basin
 - Tulare Lake Basin
- Salt Dissolution

Salinity Impairments in Surface and Groundwaters

Exacerbated locally from many sources including:

- Discharges to land associated with municipal wastewater disposal
- Septic tanks
- Oil field brines
- Confined animal facilities
- Food processors

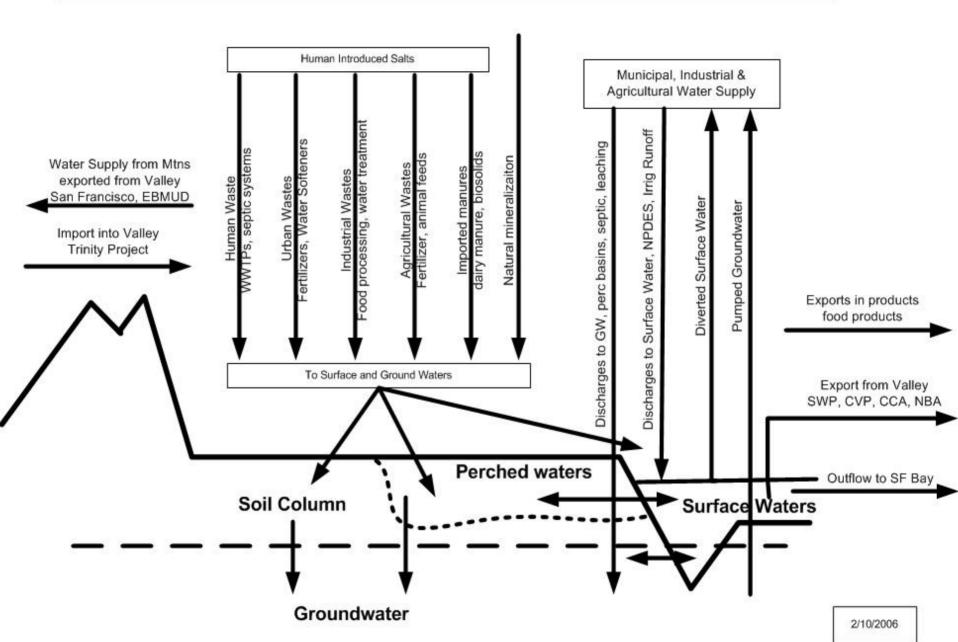
Salinity Impairments in Surface and Groundwaters

Locally and regionally complex interactions of surface and groundwater make assessment and mitigation of salinity problems difficult

 Many salinity effects are long-term and occur at exceedingly slow rates, over a number of decades

 Because these salinity concentrations typically occur very slowly, surface and groundwater impairments can be difficult to measure and quantify

Movement of Salt in the Central Valley



Central Valley Salt Budget

- The Delta
- Water Deliveries
- Sources of Salt
- Movement of Salt
- Salinity Impairments

The Santa Ana River Watershed



Over 2,650 Square Miles
 Over 5 Million Residents
 Portions of 4 Counties

 Orange County
 Riverside County
 San Bernardino County
 Los Angeles County

1. Establish during May 2006 a Salinity Study Task Force to obtain funcing for and provide oversight, supervision, and approval of a study to evaluate the impact of salinity on water resources and to develop a viable <u>Salinity Management Plan</u>.

Elements of the Salinity Management Plan will include:

Potential measures that can be implemented to better manage salinity, and then

Interim and long-range salinity management plans will be developed and fully evaluated

Elements of the Salinity Management Plan will include:

- The development of a management organization (e.g., a Joint Powers Authority or a Special Commission),
- Physical infrastructure, and
- Changes to the current basin plan and other regulatory programs

 Sponsor in June 2006 a follow-up joint State Board/Regional Board Salinity Workshop

 To receive comments on the report and potential information/data gaps,

To discuss recommendations, and

To receive input and directions for future steps

3. Conduct facilitated meetings to gather more public input and information for the process beginning August 2006

4. Contract for the preparation of economic study of

The salinity impacts in the Central Valley, and

 The social and economic consequence of not implementing a viable salinity management program

Contracting efforts are proposed to start during the period of October-December 2006

5. Sponsor a full-day salinity conference that would highlight the major salinity-related issues in the Central Valley