

UNDERSTANDING THE CHALLENGE

Flood-Related Risks in the Central Valley



Sacramento River Levee near Pocket Area, City of Sacramento



Potential Flooding at Arco Arena in Sacramento



Feather Levee Break, 1997



Linda Levee Break, 1986



San Joaquin River Flooding, 1997



Arboga, 1997



Wilton, 1997



Meridian Ring Levee, 1997

Significant Risk of Flooding

Population at Risk:

- 1.9 million people depend on levees for protection (2005 level of development)
- By 2020, due to population growth, more than 2.3 million people will be at risk

DWR, 2007

Properties at Risk along the Mainstems of the Sacramento and San Joaquin Rivers:

- 1.3 million acres of farmland
- \$35 billion in buildings and contents

USACE, 1999

Historical Flooding

Since 1954, Statewide Statistics:

- Injured or killed >1,000
- Costs ~ \$100 billion
- Every county declared between 9 and 28 flood disasters

FEMA, 2009

Impacts of 1997 Flood:

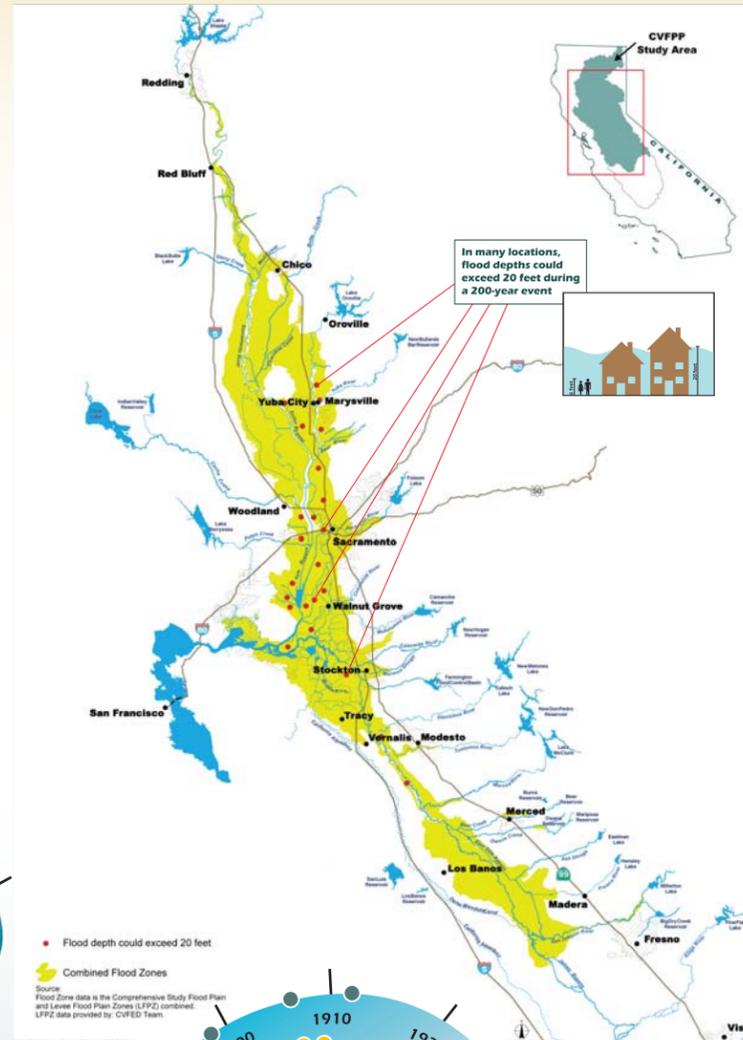
- 120,000 people evacuated
- 9 lost lives
- \$2 billion in property damages
- \$5 billion in indirect costs and disruption to the state economy

DWR, 2007

Since 1820, Nearly 70 Basin Flood Events in the Central Valley

Risks of Flooding Compared to Other Events

Event	Any Given Year % Chance	Over 30-year Mortgage % Chance
100-year Flood Event	1	26
200-year Flood Event	0.5	14
Car Stolen	1	26
House Catches Fire	0.5	14
Win the State Lottery	0.0001	0.003

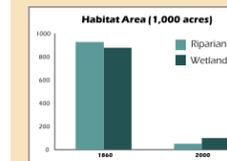


The Central Valley is Changing

Urbanization & Population Growth



The Ecosystem is Degraded



- Lack of system-wide, self-sustaining processes
- Diminished habitat quantity, connectivity, and diversity
- Decline in native species populations



The Existing Flood Management System Requires Updates



- Complex System
- Extensive Flood Benefits
- Changing Valley Conditions