



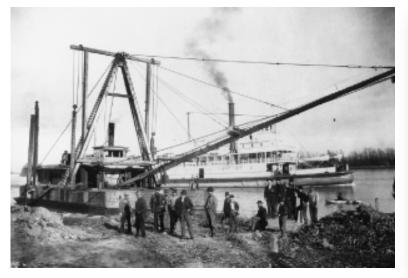
WATER FOR THE 21st CENTURY ECONOMY AND ENVIRONMENT

California Integrated Water Management Summit April 3, 2013

Historical Context



- Swamp and Overflow Act
- Central Valley Flood System
- Water System Development



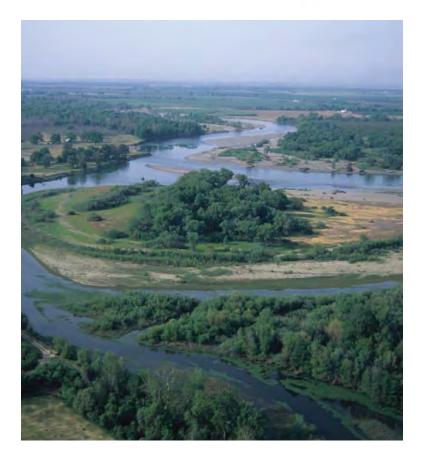




Historical Context Adaptability?

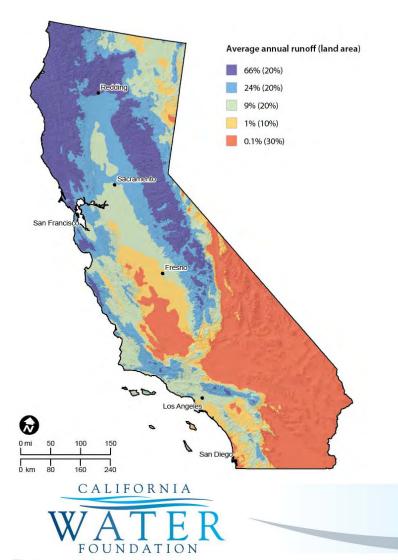




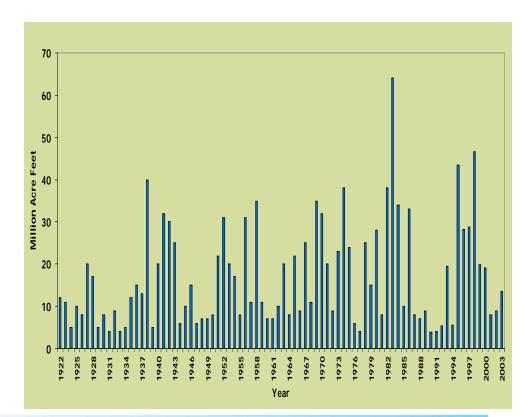


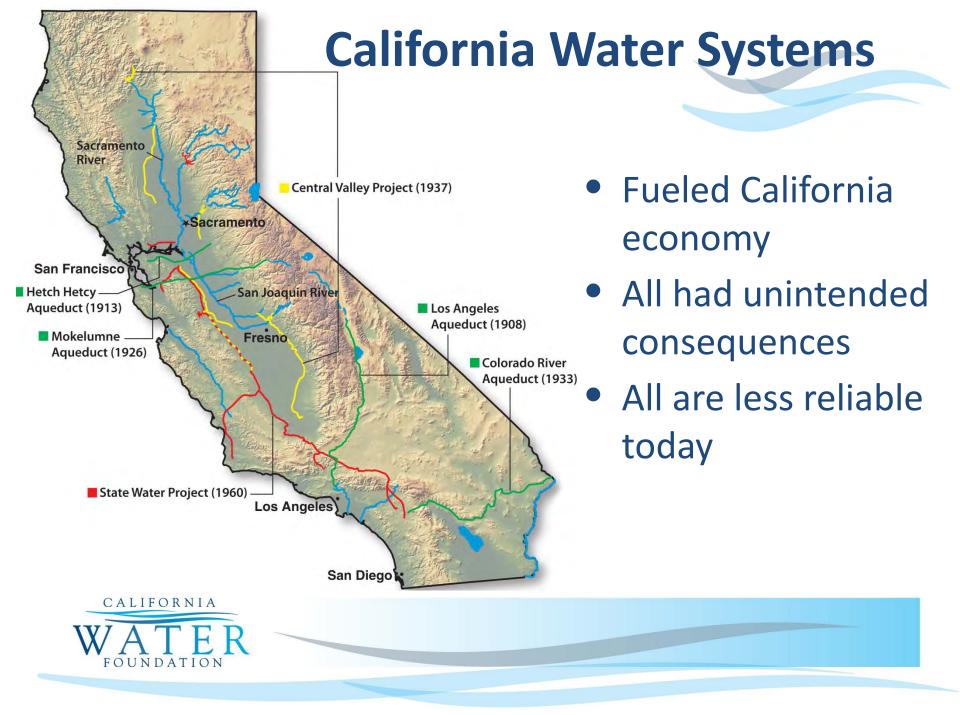


Water Variability and Use



Yearly Total Delta Outflow (Calendar Year)





Water System in Crisis

- Increasing population
- Aging infrastructure
- Groundwater overdraft
- Degraded ecosystems
- Increasing conflict
- Uncertainty due to climate change





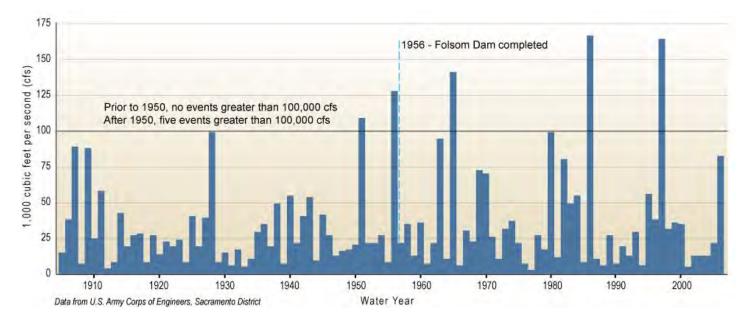






American River Runoff Annual Maximum 3-Day Flow

The five highest floods on record of the American River have occurred since 1950.





Australian 'Big Dry' in CA?

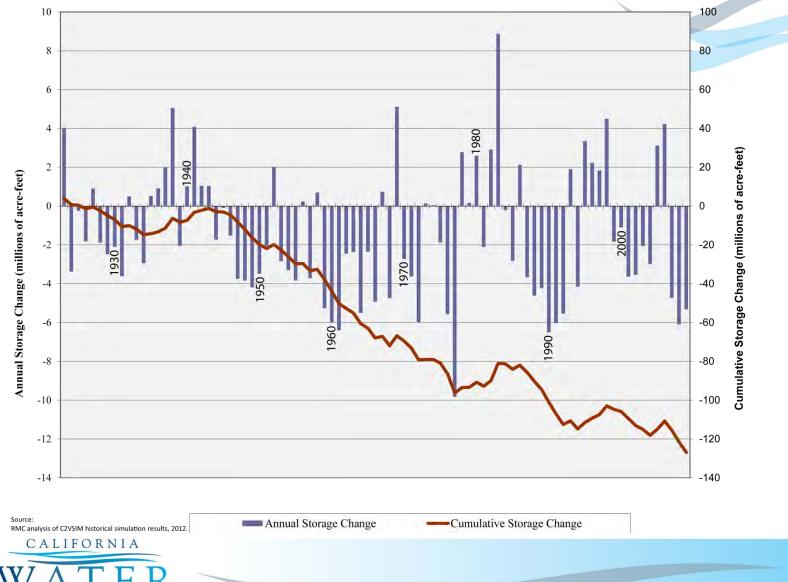


\$500 Billion Total negative economic impact
1.6 Percent Reduction in GDP growth
114,000 Jobs lost
30 Percent Reduced agricultural output





Change in Groundwater Storage for the Central Valley



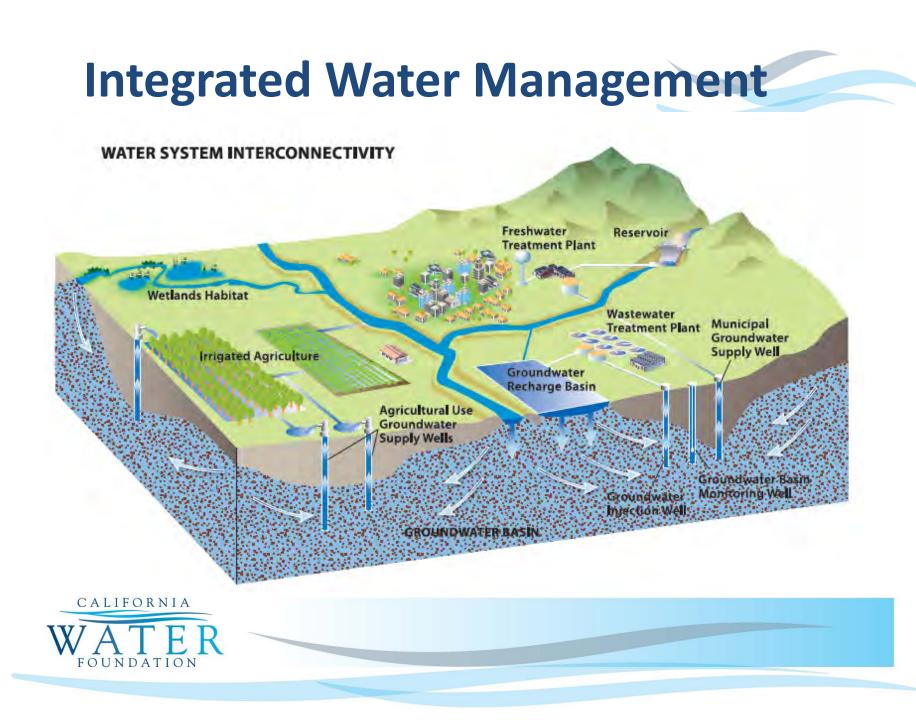
FOUNDATION

Solving California's Water Crisis

- No single strategy can meet all needs
- Integrated, diverse strategies contribute to sustainable solutions
- Water management actions and issues are interconnected
- Manage water as a natural resource







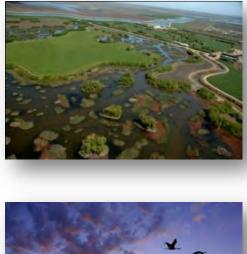
California Water Foundation



Achieving sustainable water management through:

- 1. Integrated Water Management
- 2. Groundwater Management
- 3. Urban Water Use Efficiency
- 4. Agricultural Water Use Efficiency
- 5. Stormwater Capture
- 6. Recycled Water
- 7. Reservoir Reoperation
- 8. Flood Management

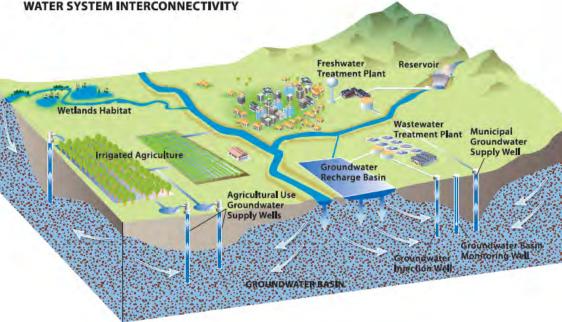






Advance Integrated Water Management

- Promote new and broadbased coalitions
- Develop long-term funding
- Support integrated resource planning
- Promote innovative technologies





Water Management Opportunities

- Water Use Efficiency 5.0 MAF
 - Urban efficiency 2.1 MAF
 - Agricultural efficiency 0.6 MAF
 - Reuse and recycling 1.5 MAF
 - Stormwater capture 0.8 MAF
- Conjunctive management and groundwater storage 1.0 MAF



CWF solutions could provide California with an additional 6 MAF of water each year



Sustainability

- Resilient ecosystems
- Diverse and adaptable water supply
- Meet current and future economic and ecosystem water needs



