

California Water Plan Update 2013

Objective 13 Ensuring Equitable Distribution of Benefits

Californians Without Safe Water & Sanitation Report

California Water Commission
April 16, 2014



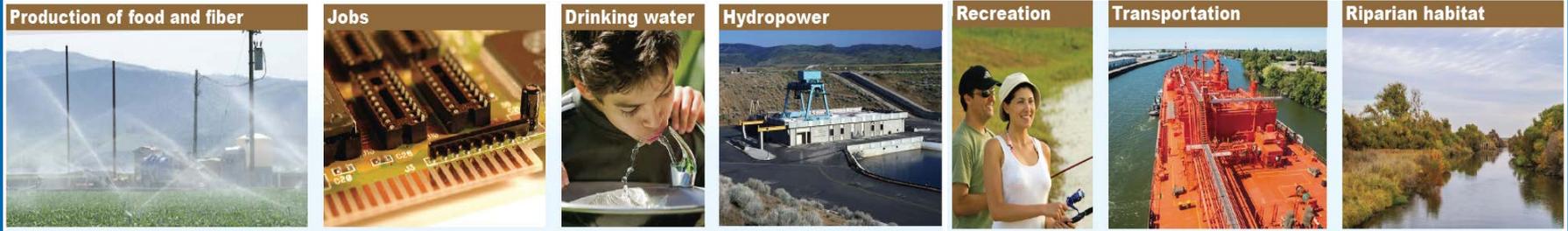
Highlights

Charting a Course for IWM in California

- Water is the essence of Life
- **California's complex water system is in crisis**
- A diverse portfolio approach is needed to address challenges
- **Solutions require Integration, Alignment & Investment**
- We all have a role to play in securing our future



Water is the Essence of Life



PUBLIC SAFETY

ENVIRONMENTAL STEWARDSHIP

ECONOMIC STABILITY

- *Reduce flood risk Statewide .*
- *Provide safe drinking water .*
- *Improve water quality for fisheries and recreation .*
- *Clean, safe water supplies .*

- *Enhance Bay -Delta ecosystem .*
- *Restore terrestrial and aquatic habitats .*
- *Improve watershed management .*
- *Raise awareness and increase stewardship .*

- *Enhance State economic output .*
- *Contribute to job creation and security .*
- *Promote food production security .*
- *Provide stable funding for infrastructure .*

Landscaping and beautification



Aquatic habitat



Aesthetics and spiritual well being



Healthy watersheds



Three Themes

California Water Plan Update 2013

Themes of 2013 California Water Plan

Integrated water management provides a set of principles and practices that include government agency alignment through open and transparent planning process. This leads to stakeholder and decision-maker support for investment ... in innovation and infrastructure.

Integrated Water Management

System flexibility and resiliency
Advocacy from implementers and financiers
Delivery of benefits using fewer resources

Government Agency Alignment

Clarification of state roles
Reduction in implementation time and costs
Efficient achievement of multiple objectives

Investment in Innovation and Infrastructure

Stable and strategic funding
Priority-driven funding decisions
Equitable and innovative finance strategies

3 I's - Invest in Innovation & Infrastructure

California State Government in partnership with others should invest in water innovation & infrastructure to support integrated water management and sustainable outcomes

➤ Innovation actions

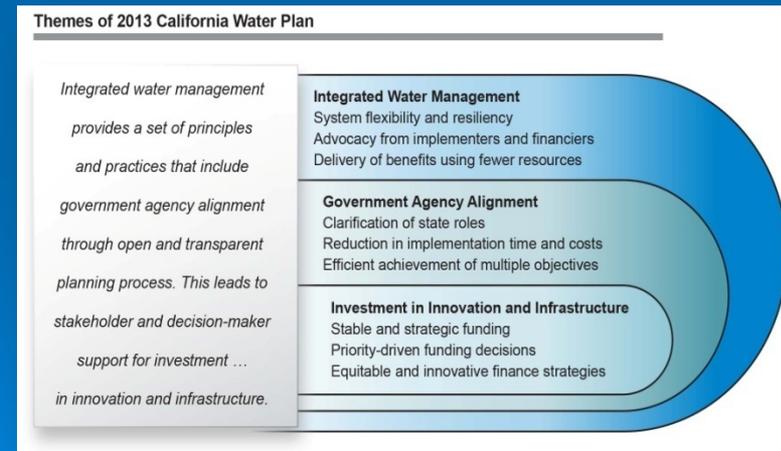
- Governance improvements
- Planning & public engagement improvements
- Agency alignment (data, plans, policies & regulations)
- Information technology (data & tools)
- Water technology & science

➤ Infrastructure improvements -- natural (green) & human (grey)

- Regional projects
- Inter-regional projects
- Statewide systems

➤ State Investments - Finance Plan

- Stable funding for innovation actions & statewide systems
- Seed money to incentivize regional infrastructure improvements



Roadmap for Action at a Glance

➤ Desired future for CA water & Purpose of Water Plan

Vision & Mission

➤ Desired outcomes for the 2050 planning horizon

7 Goals

➤ Core values & philosophies

10 Guiding Principles

➤ Statements of intent / Focus on what & when

17 Objectives & 350+ Actions

➤ Removing impediments & leveraging opportunities

30 Resource Mgmt Strategies

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Obj. 13 – Ensure Equitable Distribution of Benefits

➤ Increase voice of small and disadvantaged urban & rural communities for fair and equitable distribution of benefits. Provide all communities access to safe drinking water and wastewater treatment. Address the most critical DAC public health threats.

➤ 7 Related Actions & 24 Subactions

1. Implement AB 685 policy goals
2. Increase EJ & DAC participation in planning
3. Improve wastewater removal systems
4. Remove funding barriers for DAC projects
5. Incentivize small water system improvements
6. Continue CDPH Small Systems Program
7. Improve state & federal agency alignment



Californians Without Safe Water and Sanitation

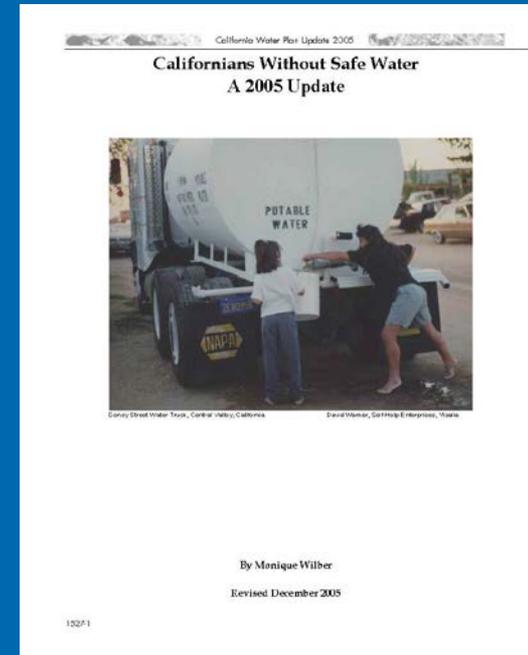
Report Contents

- Introduction
 - Population without Safe Water or Sanitation
 - Challenges Faced by Small Communities
 - A Focus on California Native American Population
 - Progress Past Ten Years
 - Conclusions
 - Recommendations
- 

Californians Without Safe Water and Sanitation

Overview

- Updates 2005 Report
- Prepared by DAC/EJ Caucus --- Stakeholders, Tribal AC members & State Agencies
- Continues dialogue and focuses attention on Californians without safe water and sanitation
- Incorporates AB 685 (Human Right to Water Bill) & Governor's Water Action Plan (Action 7 – Provide Safe Water for All Communities)



Population without Safe Water

Type of System (No. of Service Connections)	Total No. of Systems	Total Population	No. of Systems without Safe Water	Population without Safe Water
Private Domestic Well (1)	200,000 – 600,000 ¹	600,000 to 2,000,000 ¹	Data Not Available	Data Not Available
Local Small Water System (2 - 4)	Data Not Available	Data Not Available	Data Not Available	Data Not Available
State Small Water System (5 - 14)	Data Not Available	Data Not Available	Data Not Available	Data Not Available
Tribal Water System	125 ²	Data Not Available	(10,934 homes) ³	36,000 ³
Small Community Water System (15 – 1,000)	2,267 ⁴	930,000 ⁴	164 ⁵	55,000 ⁵
Medium Community Water Systems (1,001 – 3,300)	232 ⁴	1,400,000 ⁴	Data Not Available	<660,000 ⁶
Large Community Water Systems (> 3,300)	421 ⁴	35,000,000 ⁴		

Footnotes are available in the report.

Population without Adequate Sanitation

Type of System	Total No. of Systems	Total Population	No. of Systems without Adequate Sanitation	Population without Adequate Sanitation
Onsite Wastewater Treatment Systems (Septic Systems)	>1,200,000 ¹	>3,960,000 ¹	Data Not Available	Data Not Available
Tribal Wastewater Systems	Data Not Available	Data Not Available	9,499 homes ²	31,000 ²
Small Wastewater Systems	577 ³	Data Not Available	Data Not Available	Data Not Available
Medium & Large Wastewater Systems	317 ³	Data Not Available	Data Not Available	Data Not Available

Footnotes are available in the report.

Challenges Faced by Small Communities

➤ Drinking Water Challenges

- Funding & Affordability
- Groundwater Contaminants
- Aging Infrastructure
- Consolidation

➤ Sanitation Challenges

- Funding & Affordability
- Ability to Meet More Stringent WQ Standards
- Failing Septic Systems

A Focus on California Native American Population

- Management & Oversight
- Drinking Water & Sanitation Challenges
- Funding & Affordability



Progress over the Past Ten Years

- To Provide Safe Drinking Water
- To Provide Adequate Sanitation
- To Provide Safe Water & Sanitation to Tribes

Conclusions

Californians Without Safe Water and Sanitation

- Progress made to heighten awareness, but there is still much more to do
- Only a partial assessment of Californians without safe water and sanitation can be made because of significant data gaps
- Need a solution for funding annual O&M costs

Recommendations

Californians Without Safe Water and Sanitation

- 14 Recommendations
- Some recommendations & actions taken from:
 - Reports to Governor
 - Reports to Legislature
 - State Agencies Strategic & Program Plans
 - Update 2013 Objective 13 --- 4 Related Actions
- Funding needed to implement recommendations

Ways to Access Water Plan Information

➤ Visit the *Water Plan Web Portal*
www.waterplan.water.ca.gov



➤ Subscribe to *Water Plan eNews*
www.waterplan.water.ca.gov/enews

Questions & Comments



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