California Water Plan Update 2009

Where We’ve Been Where We Are Going

Central Coast Regional Workshop Santa Barbara July 23, 2007
Topics

- Update 2005 Overview
  - Providing a foundation

- Update 2009 Process Guide
  - Multiple ways to participate

- Activities & Content
  - Compiling issues & initiatives

- Products, Meetings & Schedule
  - Developing a work plan
Update 2005
Overview
Director’s Message

“This is not just another update of the California Water Plan. Update 2005 represents a fundamental transition in how we look at water resource management in California. It also represents a fundamental transition in the way state government needs to be involved with local entities and interest groups to deal with water issues in the state.”

Lester Snow
April 14, 2005
New Process

- **Open & transparent public process**
- **Collaborative recommendations**
  - 65 on Advisory Committee
  - 350 in Extended Review Forum
  - 2000 Participants
- **A strategic plan**

<table>
<thead>
<tr>
<th>Meeting</th>
<th>Number</th>
<th>Person Hours</th>
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<tr>
<td>Advisory committee</td>
<td>43</td>
<td>12,681</td>
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<td>Extended review forum &amp; organizational briefings</td>
<td>43</td>
<td>1,558</td>
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<td>Workshops</td>
<td>43</td>
<td>3,161</td>
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<td>2005 Public comment workshops</td>
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<td>Work groups</td>
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<td>4,271</td>
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<td>Tribal outreach</td>
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<td>69</td>
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<td><strong>Totals</strong></td>
<td>197</td>
<td><strong>23,252</strong></td>
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New Features

- **Water Portfolios**

- **Regional Reports**
  - For 10 hydrologic regions, the Delta, and Mountain Counties

- **Multiple Future Scenarios**
  - Plausible yet different base conditions to plan for uncertainties

- **25 Resource Management Strategies**
  - Tools for water managers & resource planners to ...

The diagram shows a timeline from 1960 to 2040 with labels for "Less Resource Intensive" and "More Resource Intensive."
Water Plan Update Organization

- Introductory Video (8-minutes)
- Water Plan Highlights (with CD & DVD)
- Vol. 1 > Strategic Plan
- Vol. 2 > 25 Resource Management Strategies
- Vol. 3 > 12 Regional Reports
- Vol. 4 > Reference Guide (60+ online articles)
- Vol. 5 > Technical Guide (Online documentation)
Strategic Plan
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A Framework for Action
Strategic Plan Overview

- Vision
- Mission
- Goals
- Recommendations
- Implementation Plan
Framework for Action
Sustainable & Reliable Water in 2030

Vision

2 Initiatives
Ensure Reliable Water Supplies

3 Foundational Actions
Ensure Sustainable Water Uses

Vital Economy
Healthy Environment
High Standard of Living

Implement
Integrated
Regional Water Management

Improve
Statewide Water Management Systems

Use Water Efficiently

Protect Water Quality

Support Environmental Stewardship
Initiative 1
Implement Integrated Regional Water Management

- Foster regional partnerships
- Develop integrated regional water management plans
- Diversify regional water portfolios using mix of strategies
Initiative 2
Improve Statewide Water Management Systems

- Improve aging facilities
- Improve flood management
- Sustain the Sacramento-San Joaquin Delta
- Implement CALFED Program
- Implement Statewide Water Management Programs
Scenarios & Diversifying Water Portfolios
Scenario Demand Changes Statewide Plus Groundwater Overdraft

GW Overdraft
2 MAF per year

Million Acre-Feet per Year

Current Trends
Less Resource Intensive
More Resource Intensive
Scenario Demand Changes by Region
Resource Management Strategies

**Reduce Water Demand**
- Agricultural Water Use Efficiency
- Urban Water Use Efficiency

**Improve Operational Efficiency & Transfers**
- Conveyance
- System Reoperation
- Water Transfers

**Increase Water Supply**
- Conjunctive Management & Groundwater Storage
- Desalination – Brackish & Seawater
- Precipitation Enhancement
- Recycled Municipal Water
- Surface Storage – CALFED
- Surface Storage - Regional/Local

**Improve Water Quality**
- Drinking Water Treatment and Distribution
- Groundwater/Aquifer Remediation
- Matching Quality to Use
- Pollution Prevention
- Urban Runoff Management

**Practice Resource Stewardship**
- Agricultural Lands Stewardship
- Economic Incentives (Loans, Grants, and Water Pricing)
- Ecosystem Restoration
- Floodplain Management
- Recharge Areas Protection
- Urban Land Use Management
- Water-Dependent Recreation
- Watershed Management
Range of Additional Water by 2030 for Eight Resource Management Choices

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<tr>
<th>Resource Management Choice</th>
<th>Low Estimate</th>
<th>High Estimate</th>
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<td>Conveyance</td>
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<td>Recycled Municipal Water</td>
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<td>Conjunctive Mgmt &amp; GW Storage</td>
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<td>Urban Water Use Efficiency (Applied)</td>
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Additional Annual Water (million acre-feet per year)
Update 2009
Process Guide
Update 2005

Process Recommendations

- Expand role & participation of other State agencies
- Expand role & participation of regional planning efforts
- Engage communities of interest & communities of place
- Add a technical advisory group
California Water Plan Update 2009
Process Guide

Public

Advisory Committee
Communities of Interest
Statewide Organizations

Regional Forum & Workshops
Communities of Place
Local Agencies & Governments

Extended Review Forum
Interested Public

Collaboration

< Plenary >
Everyone

Water Plan Steering Committee
State Agencies

Coordination
Federal Agencies

Consultation
Tribal Governments

DWR & Other State Agencies

Multi-Disciplinary Project Team

Work Teams
Analytical Tools & Data
Communications Planning
Environmental Water
Facilitation
Integrated Flood
Management
Land & Water Use
Resource Management
Strategies
Water Supply & Balance
Water Quality

Regional Leads
State staff working with Regional Efforts
Regional Reports

Statewide Water Analysis Network (SWAN)
Scientists & Engineers

Information Exchange & Data Integration
Climate Change
Shared Analytical Tools & Methods
Steering Committee Members

- Boating & Waterways
- Business, Transportation & Housing
- Cal-Environmental Protection
- CALFED Bay-Delta Program
- California Energy Commission
- California Public Utilities Commission
- Conservation
- Fish & Game
- Food & Agriculture
- Forestry & Fire Protection
- Health Services
- Parks & Recreation
- Office of Planning & Research
- Native American Heritage Commission
- State Lands Commission
- State Water Resources Control Board
- Water Resources
Advisory Committee Members
Statewide Organizations – Communities of Interest
** Specified in Water Code

- Business **
- Citizen Organizations
- Energy & Water Consumer Advocates
- Environment **
  & Public Trust
- Environmental Justice
- Local Government **
  & Land Use Planning
- Production Agriculture **
- Recreation
- Water Efficiency
- Water Quality
  & Public Health
- Water Suppliers **
  – Agricultural & Urban
- Watershed & Floodplain Management
Regional Workshops & Forums
Local Agencies & Govts. – Communities of Place

In each region:

- Regionally-based Water Collaboratives
- IRWM Planning Partnerships
- Local Agencies, Governments & Organizations
- State Commissions & Conservancies
- Regional Offices of State & Federal Agencies
Statewide Water Analysis Network
Scientists & Engineers

From:

- State Agencies
- Federal Agencies
- Local Agencies
- Non Profit Organizations
- Universities
- Consulting Firms
Activities & Content
Update 2009 Activities & Content
Build on Update 2005

1. Evaluate progress on Update 2005 & Revise the Strategic Plan
2. Update the Future Scenarios & develop Response Packages
3. Quantify Climate Change impacts & recommend Adaptation Actions
4. Update & Expand 12 Regional Reports
5. Update 25 Resource Management Strategies
7. Improve Analytical Tools, Data & Data Exchange
Evaluate Progress on Update 2005 & Revise the Strategic Plan

- Vision
- Mission
- Goals
- Recommendations
- Implementation Plan
Update the Future Scenarios & Develop Response Packages

- **Multiple Future Scenarios**
  - Plausible yet different conditions to plan for uncertainties & risks

- **Response Packages**
  - Different combinations of actions selected from the 25 resource management strategies

- ✓ Reduce Water Demand
- ✓ Improve Operational Efficiency & Transfers
- ✓ Increase Water Supply
- ✓ Improve Water Quality
- ✓ Resource Stewardship
What risks does climate change pose for the management of California’s water resources?

Quantify Climate Change Impacts & Recommend Adaptation Actions
Update & Expand 12 Regional Reports

- Build on Update 2005 reports
- Engage regional water planning efforts
- Utilize integrated regional water management plans
- Include regional scenarios and response packages
Update Resource Management Strategies

**Reduce Water Demand**
- Agricultural Water Use Efficiency
- Urban Water Use Efficiency

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- Urban Land Use Management
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Add Water Portfolio Data for 5 years: 1999, 2002 – 2005

Water Portfolios

- Describe hydrologic cycle and historical water conditions with over 80 data categories for water uses, supplies & water quality
Improve Analytical Tools, Data & Data Exchange

Goals

- Promote Collaboration
- Facilitate Information Exchange
- Improve Numbers
Products, Meetings & Schedule
Mandated Products & Due Dates

- **Dec. 2009** – Final Water Plan
Meeting Schedule for 2007 - 2009

- 9 Advisory Committee Meetings
- 25 - 30 Regional Workshops
- 3 Regional Forums (All regions)
- 10 - 15 SWAN Workshops
- Topical Workshops (as needed)
- 4 Plenary Summits (Everyone)
- 15 – 20 Steering Committee Mtgs
- Tribal Consultation Meetings
- Federal Coordination Meetings
# Meeting Schedule
## California Water Plan Update 2009

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- **Steering Committee Meeting**
- **Steering Committee Briefing (Prep for AC)**
- **Advisory Committee Meeting**
- **Regional Workshops** *(8-9 locations over 2 months)*
- **Regional Forum** *(Multi Region Gathering)*
- **As needed - facilitated AC/SC Topic Workshops**
- **Plenary**

### Additional Notes:
- **Public Comment Workshops**
- **Regional Forum (Multi Region Gathering)**
- **Regional Workshops** *(8-9 locations over 2 months)*
- **As needed - facilitated AC/SC Topic Workshops**
- **Plenary**
Discussion (A)
Elements of Water
Plan of Importance
to the Regions