California Water Plan
Update 2009
Where We’ve Been
Where We Are Going
Climate Change
Technical Advisory Group
May 20, 2008
Topics

- What is the California Water Plan?
- What is different about CWP Update 2005?
- How is Update 2009 changing?
- What are some next steps?
California Water Plan Overview
The California Water Plan

- First published in 1957 as Bulletin 3
- Updated 8 times (Bulletin 160); last one in 2005
- DWR required by law (Water Code) to update the Water Plan every 5 years; next one in 2009
- Growing interest by Legislature and stakeholders; a part of Governor’s Strategic Growth Initiative
What is the CA Water Plan?

- A Framework for California Water Policy
  - A long-range strategic plan
  - Recommends policy & technical changes
  - Guides the investment of public funds

- A Resource for Water Community
  - Quantifies current supplies and water uses
  - Examines future scenarios -- key trends & uncertainties
  - Advances Resource Management Strategies for regional and statewide water planning and management
  - Develops analytical tools and methods for sustainable resource management
Important Footnotes

- No mandates
- No spending authorization for implementation
- Recommendations are not project or site specific
- No CEQA process
- Action needed by the Governor, Legislature or Ballot Initiatives to implement recommendations
Update 2005
Overview
“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
California Water Plan Update 2005

- **New model for water management – portfolio approach:**
  - Integrated Regional Water Management (aka IRWM)
  - Manage for Risk, Uncertainty & Sustainability

- **New role for State government**
  - Manage statewide systems
  - Support IRWM with technical assistance & funding

- **A Strategic Plan**
  - Goals, recommendations & actions
  - Ensure sustainable water use and reliable supplies in the face of uncertainty
New Process

- **Open & transparent public process**

- **Collaborative recommendations**
  - 65 on Advisory Committee
  - 350 in Extended Review Forum
  - 2000 Participants

- **A strategic plan**

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<tr>
<th>Meeting</th>
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<td>Advisory committee</td>
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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)
Comprehensive 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
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
Update 2009
Process Guide
Steering Committee Members

19 State Agencies

- 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 Emergency Services
- Office of Planning & Research
- Native American Heritage Commission
- Resources
- State Lands Commission
- Water Boards
- 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
- Flood Management
- Local Government **
  & Land Use Planning
- Production Agriculture **
- Recreation
- Tribal Organizations
- Water Efficiency
- Water Quality & Public Health
- Water Suppliers **
  – Agricultural & Urban
- Watershed Management
Regional Workshops & Forums
Local Agencies & Govts. – Communities of Place

- 10 workshops in 2007 (process & regional issues)
- 11 workshops in 2008 (draft Regional Reports)
- 2007 All-Regions Forum in Ontario (Resource Management Strategies)
- 2008 All-Regions Forum on June 2 & 3 in San Jose (Regional Response Packages -- strategy mixes)
California Water Plan Update 2009
Process Guide

Public
Advisory Committee
Communities of Interest
Statewide Organizations

Regional Forum & Workshops
Communities of Place
Local Agencies & Governments

Public DWR & Other State Agencies
Multi-Disciplinary
Project Team

Coordination
Federal Agencies

Consultation
Tribal Governments

Water Plan Steering Committee
State Agencies

Water Plan
Steering Committee
State Agencies

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

< Plenary >
Everyone

Information Exchange & Data Integration
Climate Change
Shared Analytical Tools & Methods

Tribal Governments
Local Agencies & Governments
Communities of Interest
Statewide Organizations
Communities of Place
State Agencies

DWR & Other State Agencies
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

Water Plan Steering Committee
State Agencies

Coordination
Federal Agencies

Consultation
Tribal Governments

< Plenary >
Everyone

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
Key Activities & Work Plan
8 Key Activities of Update 2009

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
8. Incorporate Companion State Plans
1. Evaluate Progress on Update 2005 & Revise the Strategic Plan Elements

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

- Develop Future Scenarios
  - “Current Trends”
  - “Optimistic Outlook”
  - “Challenging Conditions”

- Examine Response Packages
  - Different combinations of actions selected from the 25 (28) resource management strategies

- ✓ Reduce Water Demand
- ✓ Improve Operational Efficiency & Transfers
- ✓ Increase Water Supply
- ✓ Improve Water Quality
- ✓ Resource Stewardship
- ✓ Improve Flood Mgmt
3. Quantify Climate Change Impacts & Recommending Adaptation Actions

- Established Climate Change Technical Advisory Group
- Collaborating with Governor’s Water-Energy Climate Action Team (WET CAT)
- Incorporated climate factors in Update 2009 Scenarios
- Developing climate change mitigation & adaptation strategies
4. 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 strategies
- Add Tribal perspectives
5. Update 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**
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- Recharge Areas Protection
- Urban Land Use Management
- Water-Dependent Recreation
- Watershed Management
- Forest Management (new stewardship strategy including meadow restoration)
Added a New Strategy Category
“Improve Flood Management”

New Resource Management Strategies

- Modify Flooding
- Modify Susceptibility to Damage
- Modify Impacts of Flooding
- Preserve Natural Floodplain Resources

** Floodplain Management is merged into these strategies**

Water Portfolios

- Describe hydrologic cycle and historical water conditions with over 80 data categories for water uses, supplies & water quality
- Need to quantify tribal water resources
7. Improve Analytical Tools, Data & Data Exchange

Goals

Promote Collaboration
Facilitate Information Exchange
Improve Numbers
8. Incorporate Companion State Government Plans

- Water Boards Basin Plans
- FloodSafe Strategic Plan
- Delta Vision & Strategic Plan
- CPUC Water Action Plan
- And many other plans
Documents & Meeting Schedule
Mandated Documents & Due Dates

- Jan. 2008
  Draft Assumptions & Estimates Report

- Dec. 2008 –
  Public Review Draft
  Final A&E Report

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

- 9 Advisory Committee Meetings
- 25 - 30 Regional Workshops
- 3 All-Regions Forums
- 10 - 15 SWAN Workshops
- Topical Workshops (as needed)
- 4 Plenary Summits (Everyone)
- 15 – 20 Steering Committee Mtgs
- Tribal Consultation Meetings
- Federal Coordination Meetings
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