

California **Water Plan** Highlights

INTEGRATED WATER MANAGEMENT



Update 2009 • Department of Water Resources

California Water Plan Update 2009

Integrated Water Management

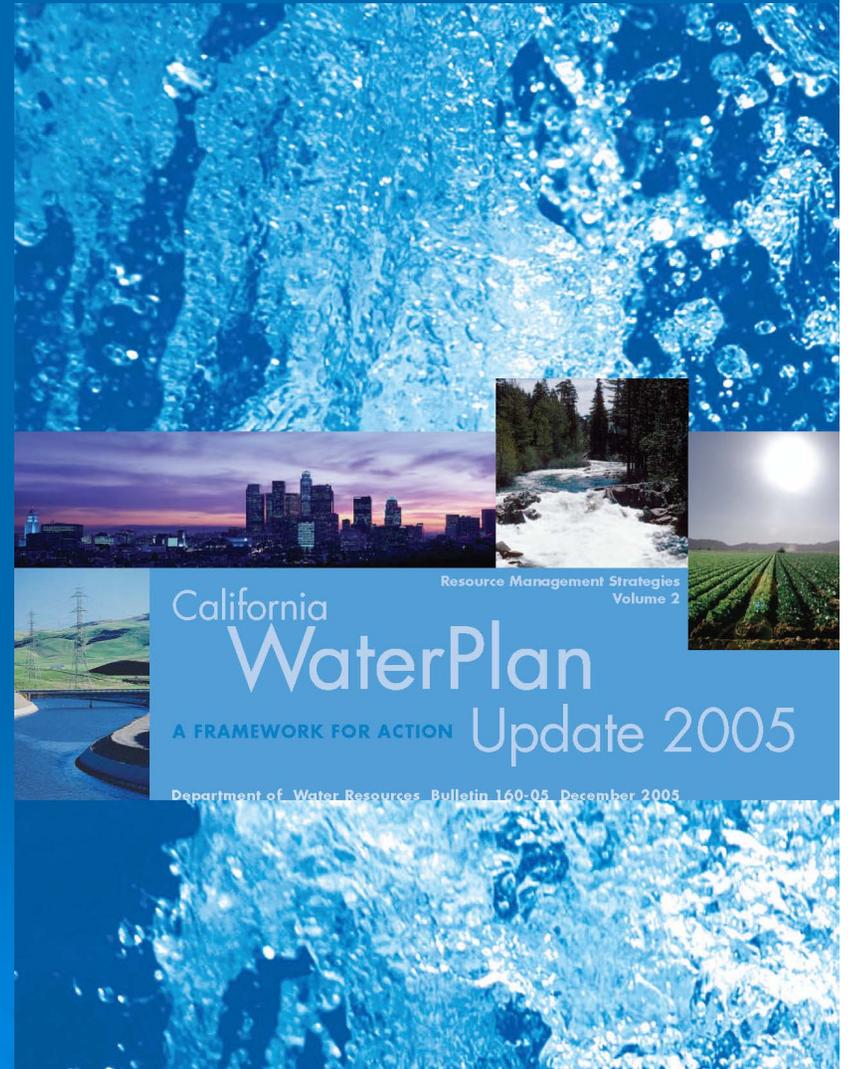
Water Boards WQCC
February 23, 2009

Public Review Draft

January 14, 2009

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
- Part of Governor's Strategic Growth Initiative



Status of CA Water Plan Update 2009



Update 2009 – State's Blueprint Integrated Water Management & Sustainability

VISION

- Public Health, Safety, Quality of Life
- Vitality, Productivity, Economic Growth
- Healthy Ecosystem, Cultural Heritage

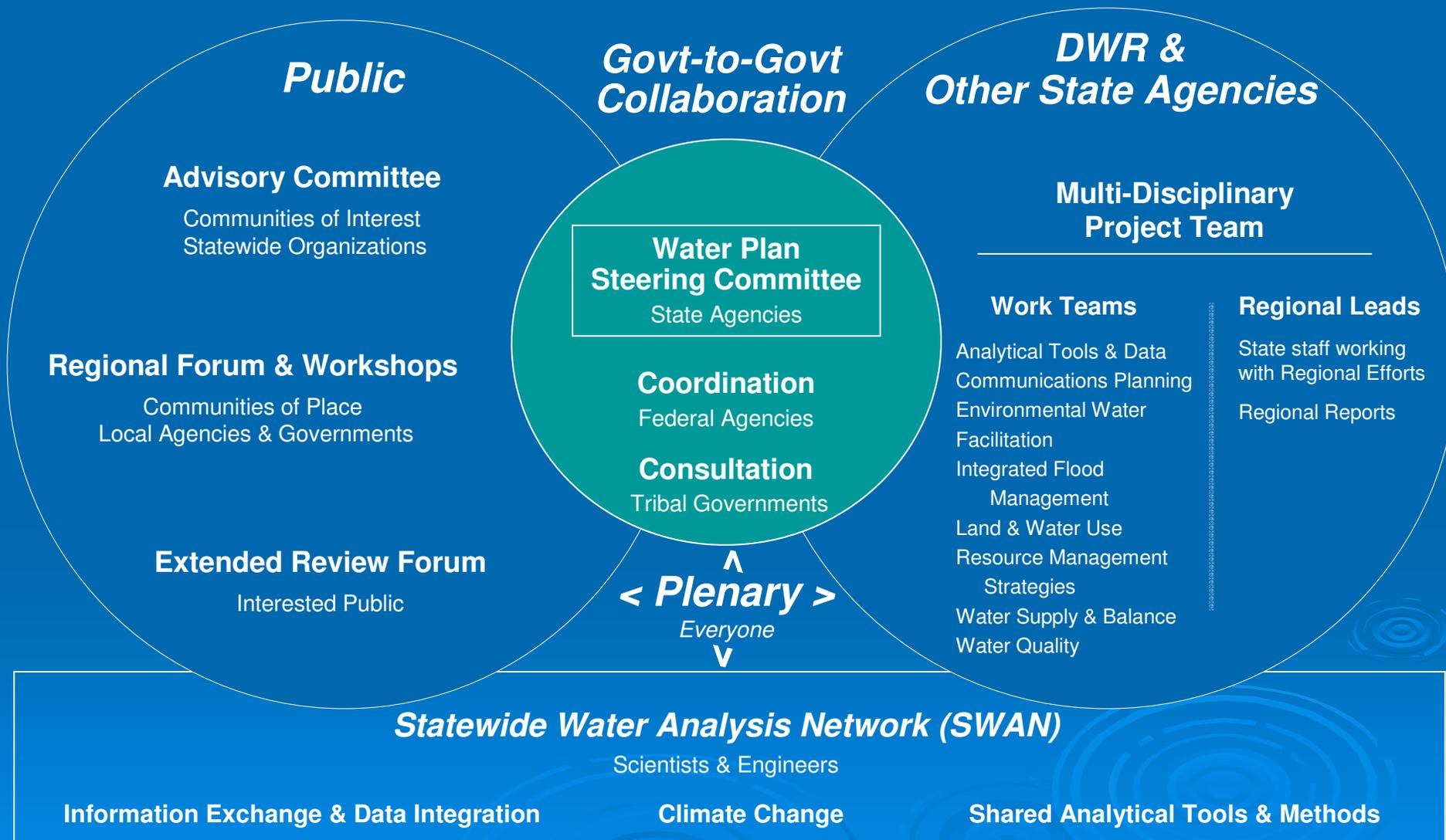
Foundational Actions for SUSTAINABLE WATER USES

- Use Water Efficiently
- Protect Water Quality
- Expand Environmental Stewardship

Initiatives for RELIABLE WATER SUPPLIES

- Expand Integrated Regional Water Management
- Improve Statewide Water and Flood Management Systems

California Water Plan Update 2009 Process Guide



20-Month Collaboration Statistics

Mar 2007 – mid-November 2008

Comparison

Update 2005

23,300 person-hours
in 60 months

Update 2009

19440 person-hours*
In 20.5 months

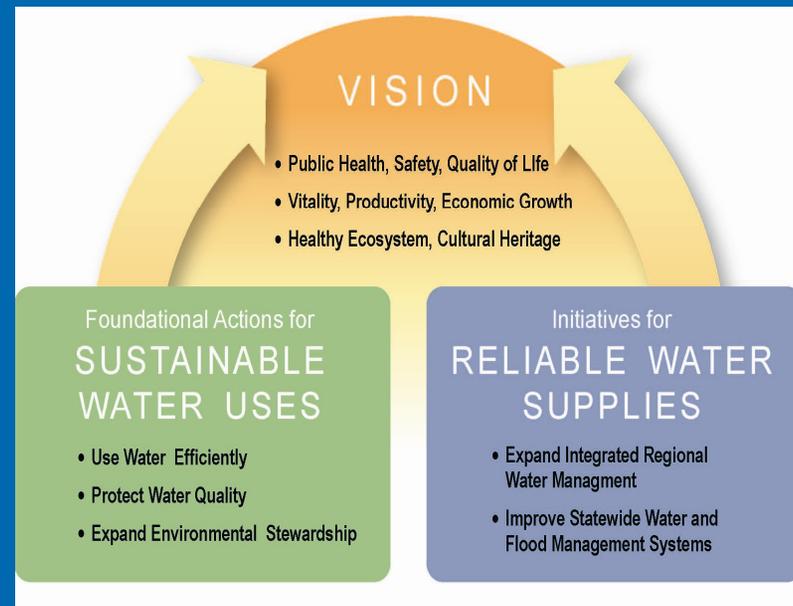
Statistic

83% of collaboration in
34% of the time

* Not including briefings

Meeting	Number	Person Hours
Steering Committee	11	1073
Advisory Committee	6	4139
Regional Workshops	21	4725
Mgmt Strategy Workshops	31	1575
All-Regions Forum	2	1928
Plenary	2	2586
SWAN Workshops	7	1690
Scenarios Workshops	2	82
Climate Change TAG	3	376
Tribal Communications Committee	12	770
Tribal Water Plenary	1	496
Totals	97	19440

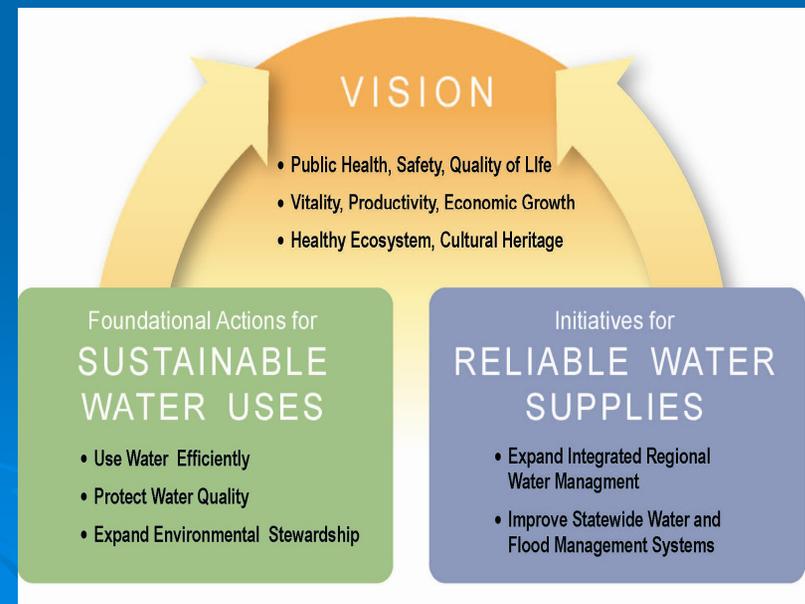
Update 2009 Features



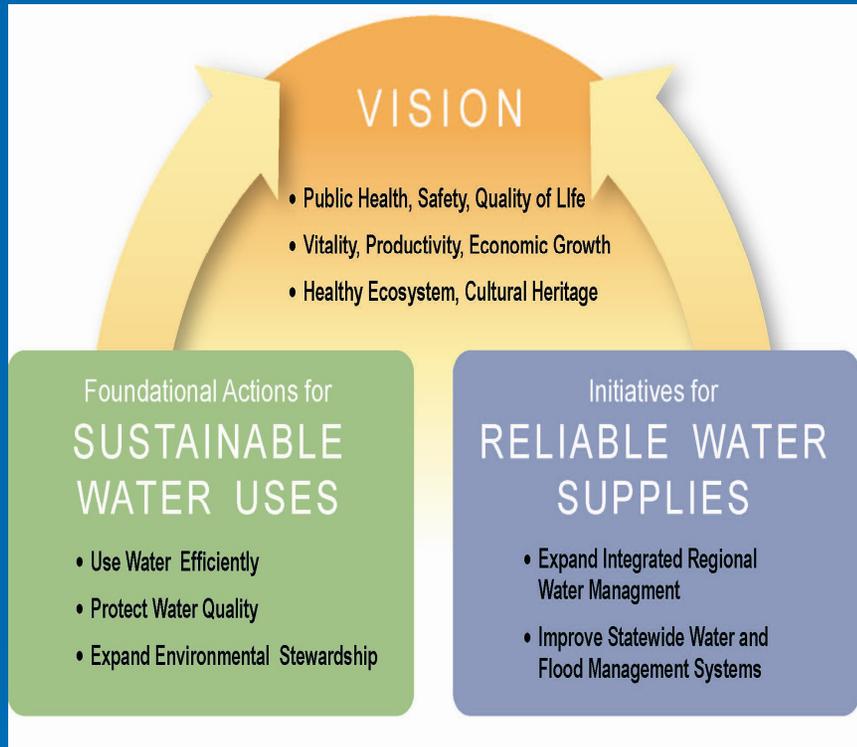
- Provides an investment guide for the water community to concurrently achieve multiple goals & benefits.
- Integrates State government initiatives, objectives & strategies and offers ~100 near- and long-term actions to achieve them.
- Incorporates consideration of uncertainties, risks & resource sustainability into planning process for the future.

Update 2009 Features

- Incorporates strategies for Integrated Flood Management and climate adaptation & mitigation
- **Describes 27 resource management strategies to help regions diversify their water portfolios and increase regional self-sufficiency.**
- Outlines new analytical methods and tools to plan for effects of population growth & development patterns, climate change, economic change, and other uncertainties.
- Updates 12 regional reports.



Imperative to Act to Keep Pace w/ Changes



- Population growth
- Shift to permanent crops
- Delta & watersheds in decline
- Climate Change profoundly impacting water systems
- Current water & flood systems challenged by legal remedies & regulatory protections
- Growing economic & societal consequences of declining reliability and quality of surface & groundwater supplies

*** The *Entire System* – water & flood management, watersheds & ecosystems – has lost resilience and is changing in undesirable ways.**

3 Water Scenarios

A Range of Considerations thru 2050

Many Factors

What will be California's water demands in 2050? The Water Plan looks at 80 factors that can affect water use. They fit into these categories. Assumptions about how these factors may change—using future scenarios—can help us plan for future water demands.



Economic & Financial



Technological



Social Practices



Natural Systems



Institutional & Political

Water Policy

- **Current Trends** – Recent trends continue into the future
- **Blueprint Growth** – Coordinated planning & development
- **Expansive Growth** – More resource intensive conditions

27 Resource Management Strategies

A Range of Choices

Reduce Water Demand

- Agricultural Water Use Efficiency
- Urban Water Use Efficiency

Improve Operational Efficiency & Transfers

- Conveyance – Delta
- Conveyance – Regional/Local
- 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 Flood Management

- Flood Risk Management

Improve Water Quality

- Drinking Water Treatment and Distribution
- Groundwater/Aquifer Remediation
- Matching Quality to Use
- Pollution Prevention
- Salt & Salinity Management
- Urban Runoff Management

Practice Resource Stewardship

- Agricultural Lands Stewardship
- Economic Incentives (Loans, Grants, and Water Pricing)
- Ecosystem Restoration
- Forest Management
- Land Use Planning & Management
- Recharge Areas Protection
- Water-Dependent Recreation
- Watershed Management

12 Regional Reports

Variable Conditions & Unique Responses

- 
- Setting
 - Regional Water Conditions
 - Relationship with Other Regions
 - Regional Water and Flood Planning and Management
 - Looking to the Future
 - Water Portfolios 1998-2005
 - Selected References

Strategic Plan Elements

➤ 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

13 Objectives & 100 Actions

➤ Removing impediments & leveraging opportunities

9 Recommendations

13 Linked Objectives & 100 Related Actions

1. Expand integrated regional water management
 2. **Use and reuse water more efficiently**
 3. Expand conjunctive management of multiple supplies
 4. **Protect surface and groundwater quality**
 5. Expand environmental stewardship
 6. **Practice integrated flood management**
 7. Manage a sustainable California Delta
 8. **Prepare prevention, response & recovery plans**
 9. Reduce energy consumption of water systems & uses
 10. **Improve data & analysis for decision-making**
 11. Invest in new water technology
 12. **Improve Tribal water & natural resources**
 13. Ensure equitable distribution of benefits
- 

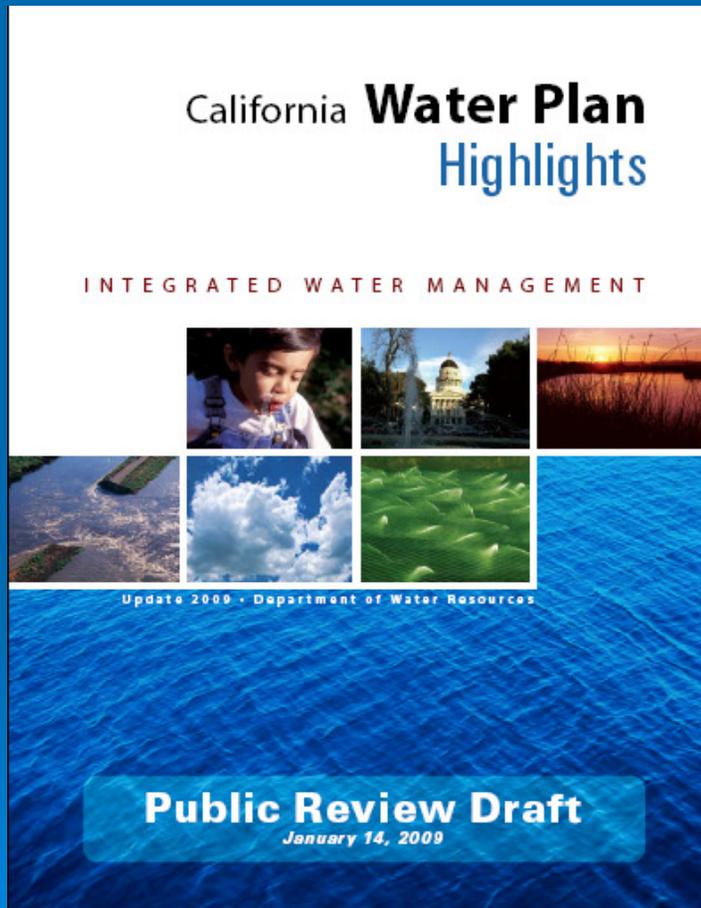
Recommendations

1. Implement Water Plan's actions
2. **Need finance plan with stable/continuous funding**
3. Ecosystem health & water reliability are co-equal
4. **State govt leads, assists & oversees regions**
5. State & federal govt lead & support research for climate adaptation and mitigation
6. **Improve coordination of land use policies, economic development & water/flood/resource management**
7. Renovate & improve aging water, wastewater & flood infrastructure
8. **Articulate & update roles, authorities & responsibilities**
9. Increase public water awareness

Layout of Jan. 2009 Public Review Draft



Water Plan Update Organization

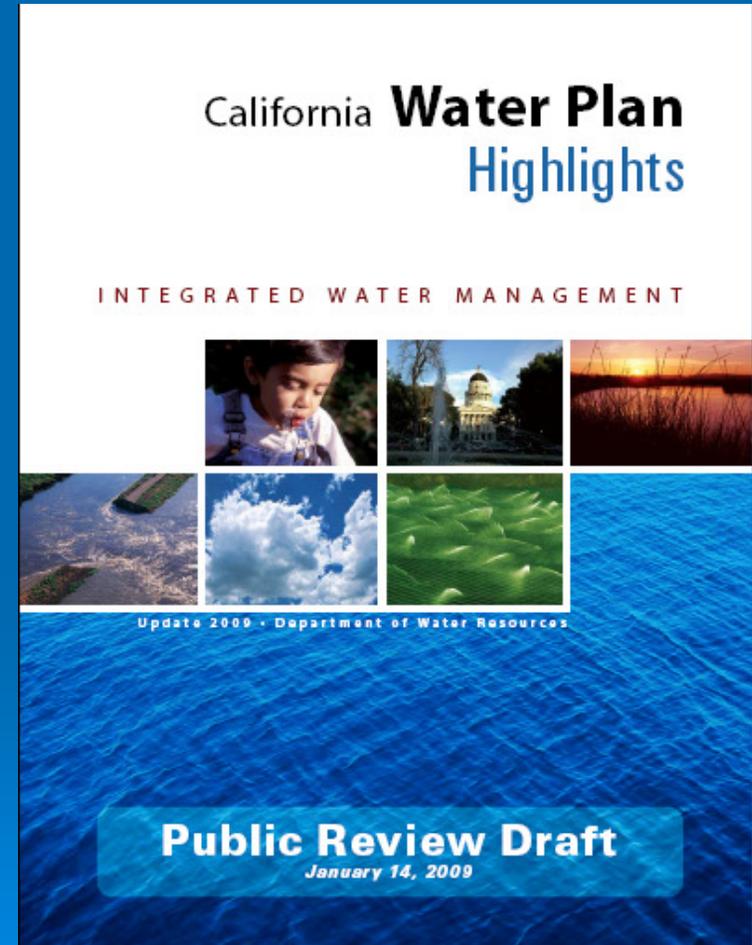


- Water Plan Highlights (with CD)
- Vol. 1 > The Strategic Plan
- Vol. 2 > 27 Resource Management Strategies
- Vol. 3 > 12 Regional Reports
- Vol. 4 > Reference Guide - *coming* (Online articles)
- Vol. 5 > Technical Guide - *coming* (Online documentation)

Water Plan Highlights

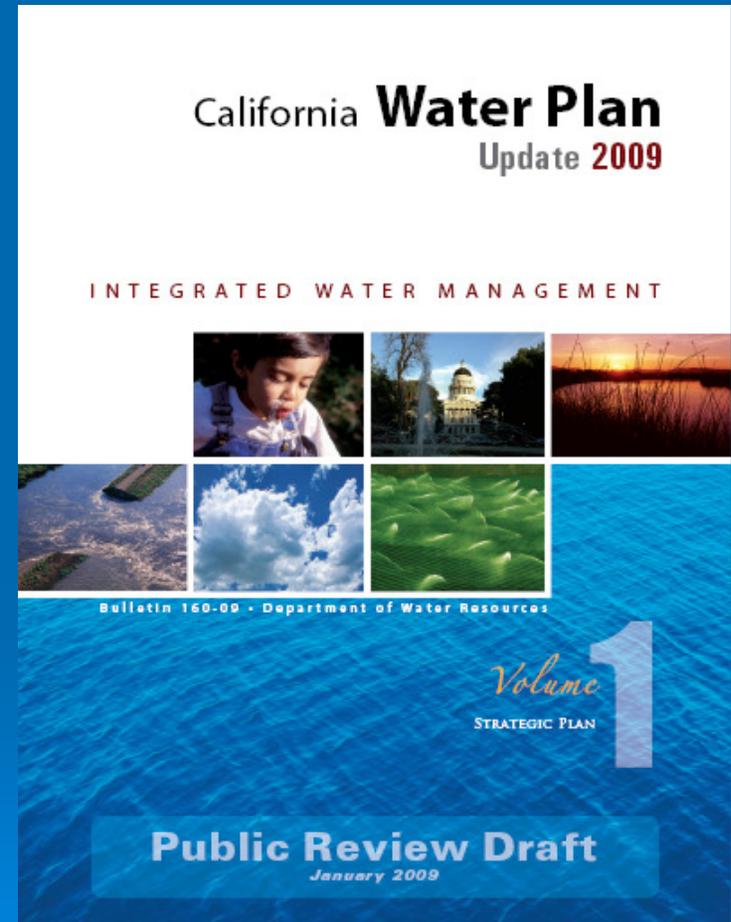
An Overview Of Update 2009

1. **Director's Message**
2. California Water Today – Imperative to Act
3. **California's Water – Variable & Extreme**
4. Climate Change – Increasing the Stress
5. **California's Water Plan 2009**
– **Building on a Framework (FOLDOUT)**
 - Strategic Plan – Desired Future for CA Water
 - Implementation Plan – An Urgent Roadmap
6. Water Scenarios 2050
– A Range of Considerations
7. **Resource Management Strategies**
– **A Range of Choices**
8. Regional Strategies – Response thru 2050
9. **Conclusion & Recommendations**



Volume 1 --- The Strategic Plan

1. Introduction
2. **Imperative to Act**
3. Companion State Plans
4. **California Water Today**
5. Managing an Uncertain Future
Uncertainty, Risk & Sustainability
6. **Integrated Data & Analysis**
7. Implementation Plan
13 Objectives & ~100 Related Actions



What's Next



Ways to Access Water Plan Information

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

California Water Plan 2009
Wednesday's Update Feb. 27, 2008

Subscribe | Comments/Suggestions | Unsubscribe

This weekly electronic newsletter is designed to keep you current on California Water Plan news. We welcome comments, suggestions and any news tips that may be of interest to water planners.

Regional Workshops get under way next week in Southern California

If you plan to attend, please don't forget to RSVP

- Tuesday, March 4, Desert Hot Springs. Meeting materials, including the Initial Draft Regional Report for the Colorado River Region. [Click to Search here.](#)
- Wednesday, March 5, Apple Valley. Meeting materials, including the Initial Draft Regional Report for the South Lahontan Region. [Click to Search here.](#)
- Thursday, March 6, San Diego. Meeting materials, including the Initial Draft Regional Report for the South Coast Region. [Click to Search here.](#)

DWR encourages attendance by the public and representatives of water agencies and associations, local, state, tribal (recognized and non-recognized), federal government, watershed and community groups, and conservancies. Eight more Regional Workshops will be held across the state this year. [You can find more information about them here.](#)

Free Delta Vision workshop to be held in Suisun City

The Water Education Foundation is offering a free Delta Vision Workshop on Friday, March 7, in Suisun City. The free workshop will run from 8:45 a.m. to 5 p.m. and will outline the Delta Vision plan's recommendations and what they mean to you. Not only is the workshop free, organizers are giving all registered attendees a free box lunch. [Learn more here.](#)

DV Blue Ribbon panel will meet tomorrow and Friday

The Delta Vision Blue Ribbon Task Force will meet tomorrow and Friday in West Sacramento to continue developing a strategic plan to implement its vision for the California Delta. The meeting will focus on the Delta as an estuarine ecosystem, water and governance and strategic finance. [Read more.](#)

RAND releases two water management studies

The RAND Corporation has released two studies detailing uncertainties about future water management. The first is "Presenting Uncertainty About Climate Change to Water Resource Managers: A Summary of Workshops with the Inland Empire Utilities Agency." [Read it here.](#) The other report is "Preparing for an Uncertain Future Climate in the Inland Empire: Identifying Robust Water-Management Strategies." [Read it here.](#)

Click on links below for more information.

Upcoming Meetings | Water Plan Web site



- Subscribe to Water Plan eNews
a weekly electronic newsletter
www.waterplan.water.ca.gov/enews

California Home | Governor Home | Amber Alert | Thursday, January 22, 2009

Welcome to **California**

DEPARTMENT OF WATER RESOURCES
PLANNING AND LOCAL ASSISTANCE

California Water Plan
Home > Update 2009 - Integrated Water Management

California Water Plan Update 2009 Public Review Draft
January 2009

Get ADOBE READER*

HIGHLIGHTS | VOLUME 1 | VOLUME 2 | VOLUME 3 | VOLUME 4 | VOLUME 5 | A&E | Comments | Filter

Important Note:

In the public review draft, we use PLACEHOLDER in the text for two reasons: (1) to indicate tables, figures or boxes that are placed at the end of the chapter, or (2) for items that are still being developed - for example a table or chart that will be added when the needed data are available.

We will hold additional workshops in February and March to supplement the data and analytical information. We will also hold at least 12 regional workshops from mid-April through May to present the public draft as well as new supplemental information and hear public comments in person.

Rollout Schedule

Rollout and Comment Schedule Filer

539 kb

DWR Aquacast

DWR has been crafting and updating the California Water Plan for 50 years. Join Kamyar Gulvelchi, Manager of Statewide Integrated Water Management as he explains how the 2009 update is unique, and how the public can get involved in developing the Water Plan.

Formats: MP3 | Text

Where to Send Comments:

➤ E-mail: cwppcom@water.ca.gov

➤ Fax: 916-651-9289

➤ Postal mail:

Attn: Paul Dabbs

Statewide Water Planning

California Department of Water Resources

PO Box 942836, Sacramento, CA 94236-0001

All comments posted online

The screenshot shows the California Department of Water Resources website. The header includes "Welcome to California" and "DEPARTMENT OF WATER RESOURCES PLANNING AND LOCAL ASSISTANCE". The main content area is titled "California Water Plan" and "Public Comments". It displays a table of comments for the 2009 update, with columns for Date Received, Author, Organization, Subject, and Comment. The table lists several comments from various organizations, including the Southern California Alliance of Resource Management, Kern County Water Agency, Regional Council of Rural Counties, and Department of Forestry and Fire Protection.

Date Received	Author	Organization	Subject	Comment
12/18/2007	12/18/2007	Peatone, John	Southern California Alliance of Resource Management Works (SCAR)	Letter (p. 43 of 43)
12/20/2007	12/20/2007	Fryer, Lynn	Kern County Water Agency	Strategic Plan Elements (p. 114)
12/20/2007	12/20/2007	Hannon, Kathy	Regional Council of Rural Counties	Strategic Plan Elements (p. 43 of 43)
12/24/2007	12/24/2007	Kelly, Chris	Department of Forestry and Fire Protection	Strategic Plan Elements (p. 51 of 43)

Date Received	Author	Organization	Subject	Comment
01/15/2008	01/15/2008	Gerrill, Barbara	California Association of Realtors	Strategic Plan Elements (p. 9 of 43)
01/25/2008	01/25/2008	Calaway, Marla	California State Association of Counties	Strategic Plan Elements (p. 13 of 43)
01/28/2008	01/28/2008	Havke, Jack	California Water Association	Strategic Plan Elements (p. 28 of 43)
01/28/2008	01/28/2008	Sullivan, John D.	League of Women Voters	Strategic Plan Elements (p. 37 of 43)
01/28/2008	01/28/2008	Talayan, Susan	The Nature Conservancy	Strategic Plan Elements (p. 14 of 43)
01/29/2008	01/29/2008	Brown, Chris	California Urban Water Conservation Council	Strategic Plan Elements (p. 16 of 43)
02/04/2008	02/04/2008	Forsberg, Paul	California Department of Fish and Game	Strategic Plan Elements (p. 38 of 43)

www.waterplan.water.ca.gov/comments/update2009/

Contact Information

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Manager

DWR, Statewide Integrated Water Management

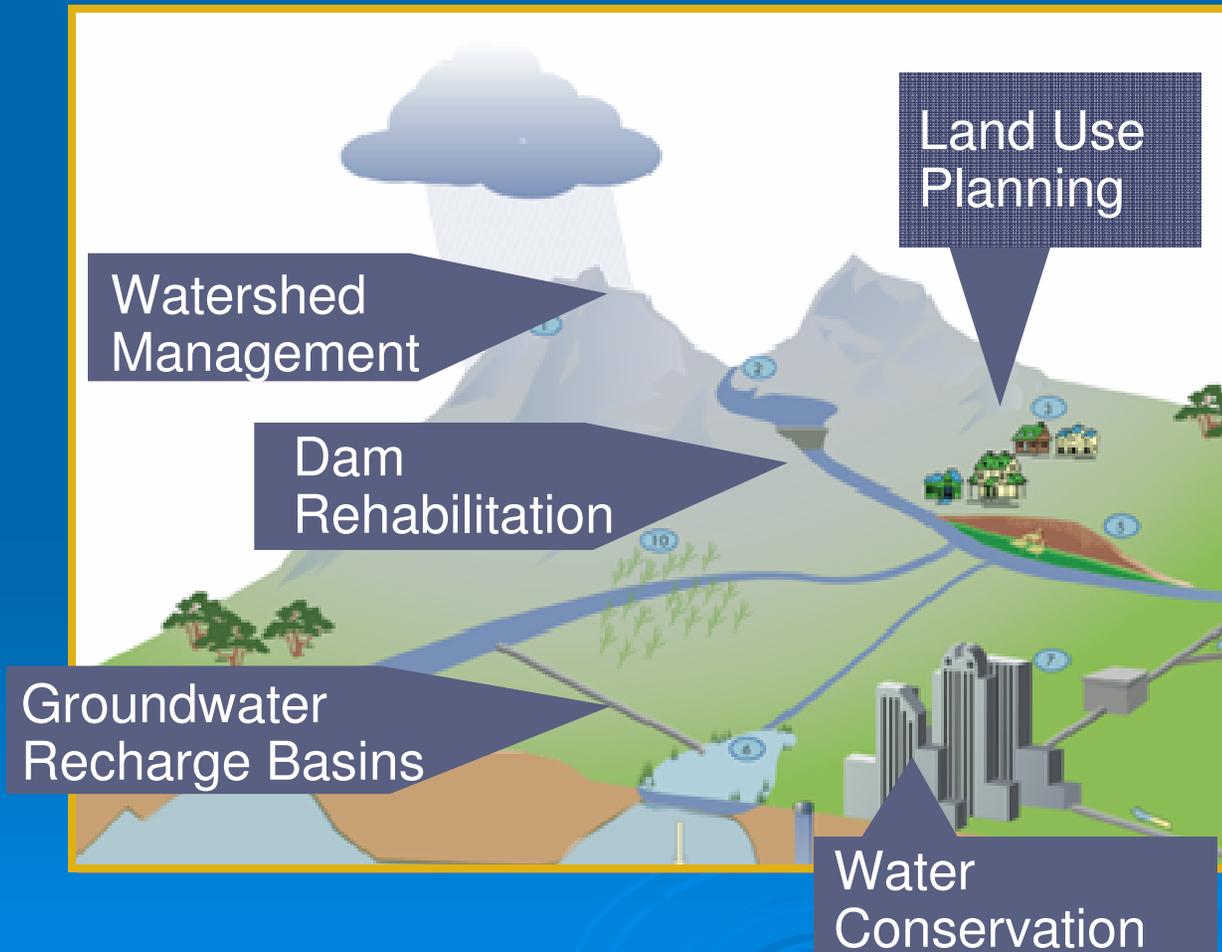
901 P St., 2nd Floor, Sacramento, CA

(916) 653-3937

kamyarg @ water.ca.gov

www.WaterPlan.water.ca.gov

Integrated Regional Water Management



Watershed Management

- Reduced Siltation
- Water Quality
- Habitat

Dam Rehabilitation

- Flood Protection
- Water Supply
- Fish Passage

Land Use Planning

- Protect Groundwater Recharge Areas

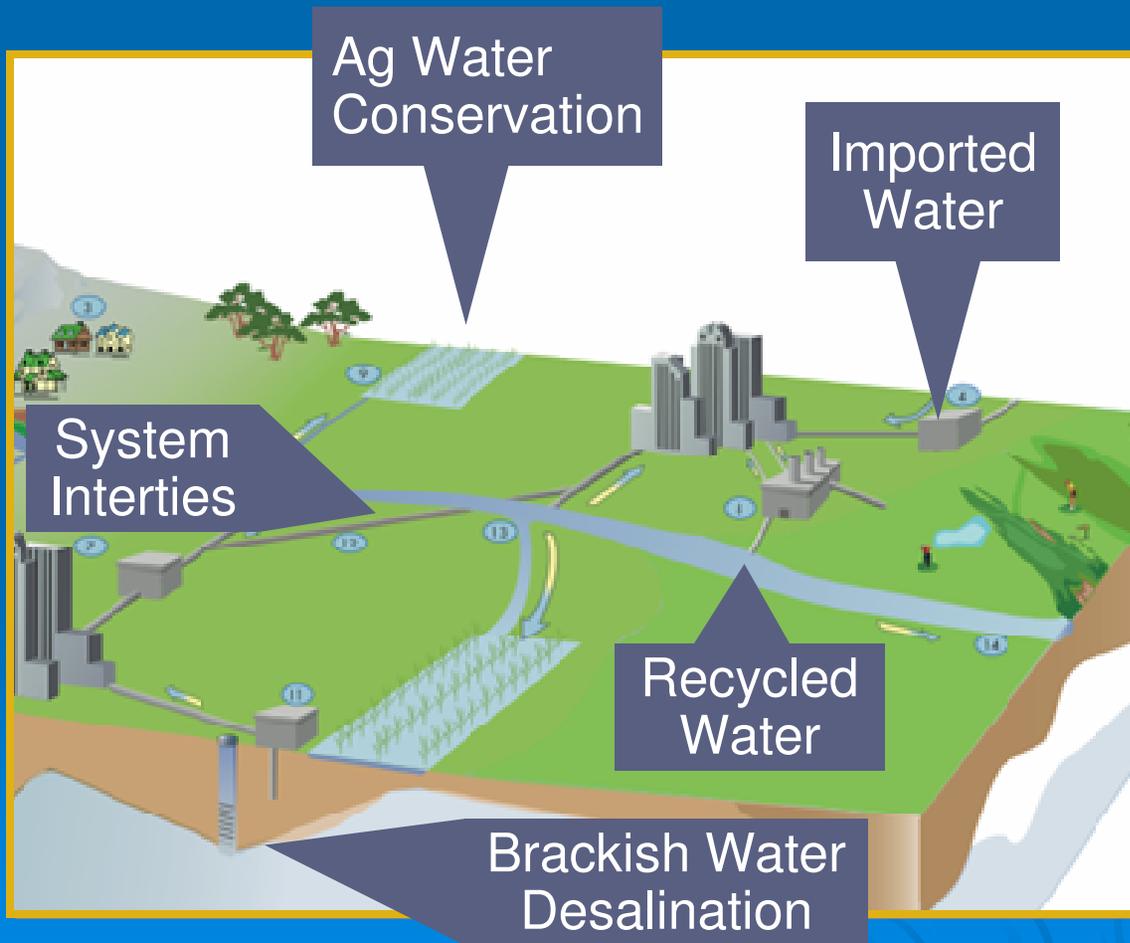
Recharge Basins

- Water Supply & Quality
- Pumping Lifts

Water Conservation

- Reduced demand

Integrated Regional Water Management



Ag Water Conservation

- Reduced Demand
- Reduced Ag Runoff

Imported Water

- Reduced Dependence
- Use when available

System Interties

- Mutual Reliability
- Emergency Readiness

Recycled Water

- Water Supply
- Reduced Discharge

Desalination

- Water Supply
- Groundwater Quality