

California **Water Plan**
Highlights

INTEGRATED WATER MANAGEMENT



Update 2009 • Department of Water Resources

California Water Plan
Update 2009

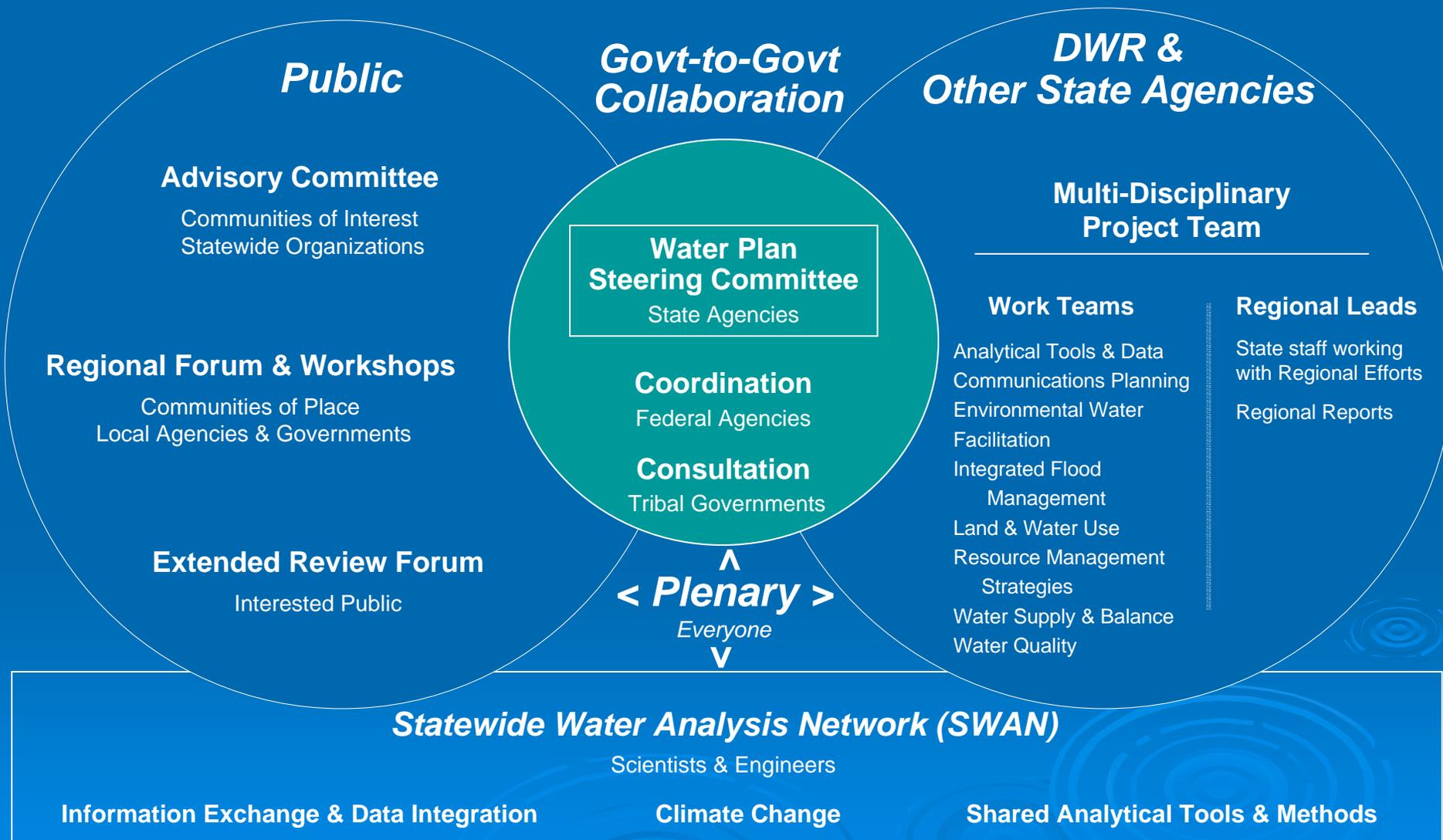
Overview of Draft
Highlights Booklet

Water Portfolio &
Scenario Graphics
Workshop
June 16, 2009

Public Review Draft

January 14, 2009

California Water Plan Update 2009 Process Guide



24-Month Collaboration Statistics

Mar 2007 – February 2009

Comparison w/
Update 2005

87% of collaboration in
40% of the time

Meeting	Number	Person Hours
Steering Committee	11	1073
Advisory Committee	7	4489
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 Communication Committee	12	770
Tribal Water Summit Planning	3	118
Tribal Water Plenary	1	496
Totals	103	20,223

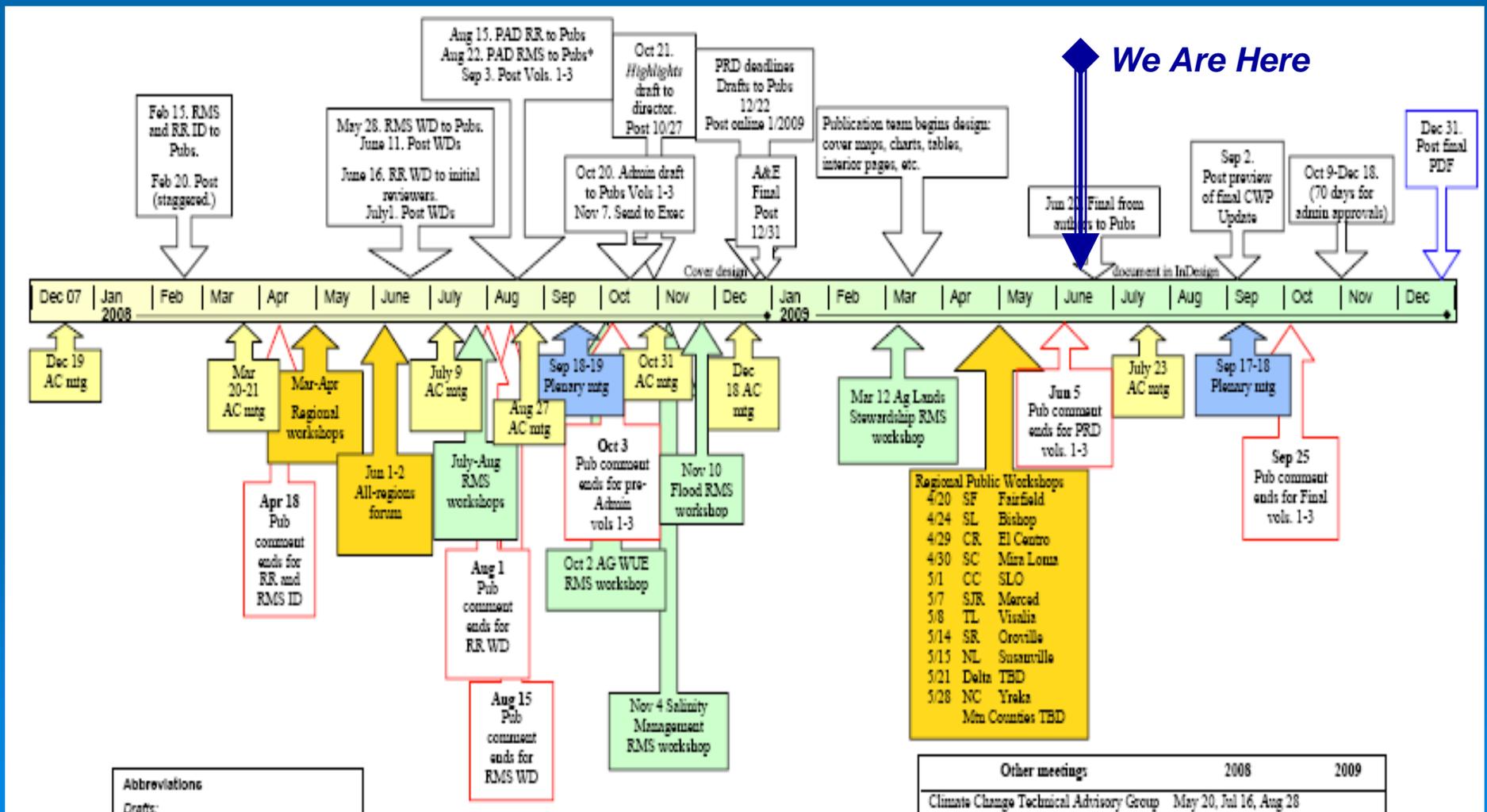
* Not including briefings

Document & Venue Schedule

Documents Above & Venues Below Timeline

2008

2009



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

The first three of this year's Water Plan Regional Workshops will be held next week in Southern California to allow the public to comment on an initial draft of their respective Regional Report.

- Tuesday, March 4, Desert Hot Springs. Meeting materials, including the Initial Draft Regional Report for the Colorado River Region, [can be found here](#).
- Wednesday, March 5, Apple Valley. Meeting materials, including the Initial Draft Regional Report for the South Lahontan Region, [can be found here](#).
- Thursday, March 6, San Diego. Meeting materials, including the Initial Draft Regional Report for the South Coast Region, [can be found 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," [find it here](#). The other report is "Preparing for an Uncertain Future Climate in the Inland Empire: Identifying Robust Water-Management Strategies," [find 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

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[HIGHLIGHTS](#) | [VOLUME 1](#) | [VOLUME 2](#) | [VOLUME 3](#) | [VOLUME 4](#) | [VOLUME 5](#) | [AAE](#) | [Comments](#) | [Filer](#)

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

DWR Aquacast

DWR has been crafting and updating the California Water Plan for 50 years. Join Kamyar Guvelchi, 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](#)

Send Comments by June 5

➤ E-mail: cwpcom@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

California Home Governor Home Amber Alert Friday, February 29, 2008

Welcome to California

DEPARTMENT OF WATER RESOURCES
PLANNING AND LOCAL ASSISTANCE

California Water Plan
Home » Public Comments » California Water Plan Update 2009 Comments

2007 Comments

Date	Received	Author	Organization	Subject	Comment
12182007	12182007	Feiere, John	Southern California Alliance of Publicly Owned Treatment Works (SCAP)	Resource Management Strategies	Letter (pdf, 43 kb)
12082007	12082007	Fryer, Lynn	Kern County Water Agency	Strategic Plan Elements	Email (pdf, 11kb)
12082007	12082007	Hannon, Kathy	Regional Council of Rural Counties	Strategic Plan Elements	Letter (pdf, 48 kb)
12042007	12042007	Kathy, Chris	Department of Forestry and Fire Protection	Strategic Plan Elements	Email (pdf, 81 kb)

2008 Comments

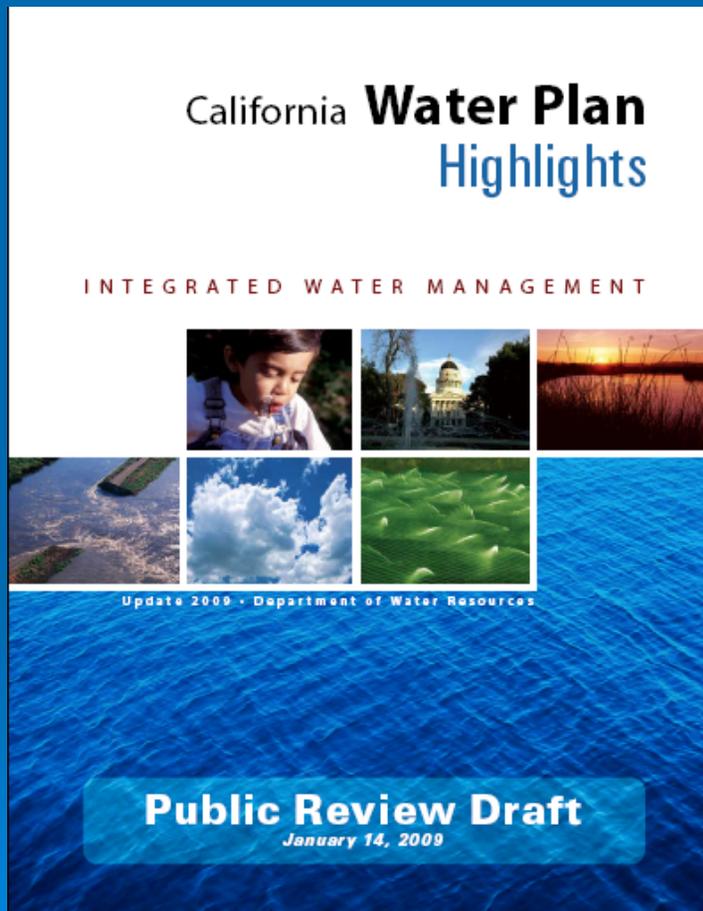
Date	Received	Author	Organization	Subject	Comment
01152008	01152008	Gavin, Estabill	California Association of Realtors	Strategic Plan Elements	Email (pdf, 8 kb)
01052008	01052008	Calaway, Merla	California State Association of Counties	Strategic Plan Elements	Email (pdf, 13 kb)
01052008	01052008	Havke, Jack	California Water Association	Strategic Plan Elements	Email (pdf, 28 kb)
01032008	01032008	Sullivan, John D.	League of Women Voters	Strategic Plan Elements	Document (pdf, 37 kb)
01022008	01022008	Talayan, Susan	The Nature Conservancy	Strategic Plan Elements	Email (pdf, 14 kb)
01022008	01022008	Brown, Chris	California Urban Water Conservation Council	Strategic Plan Elements	Letter (pdf, 16 kb)
02042008	02042008	Forsberg, Paul	California Department of Fish and Game	Strategic Plan Elements	Document (pdf, 38 kb)

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

Water Plan Highlights

Water Plan Update Organization

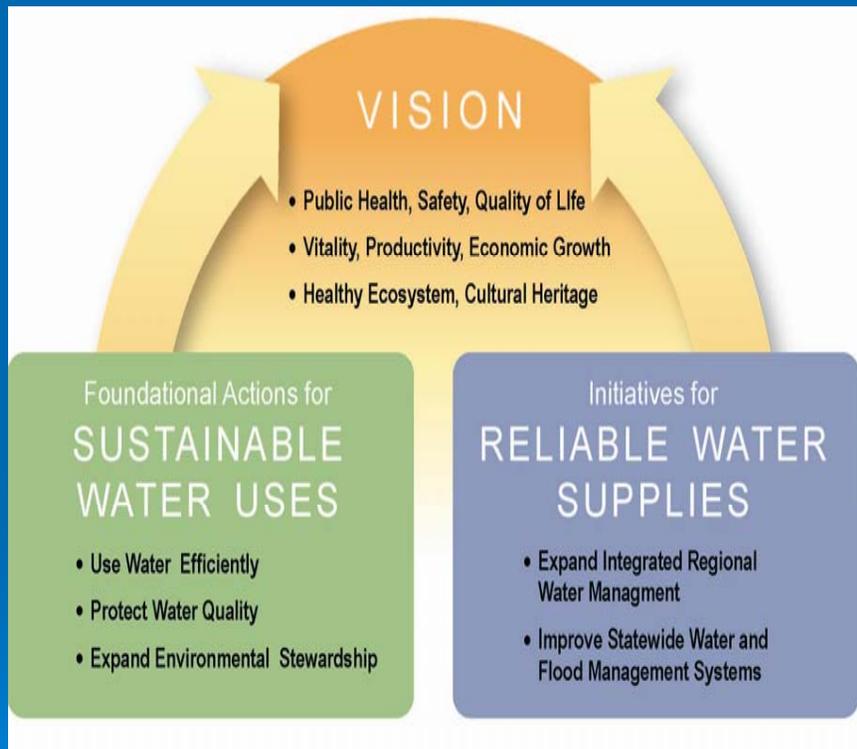
Inside Front Cover



- 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)

Imperative to Act to Keep Pace w/ Changes

pages 4 - 5



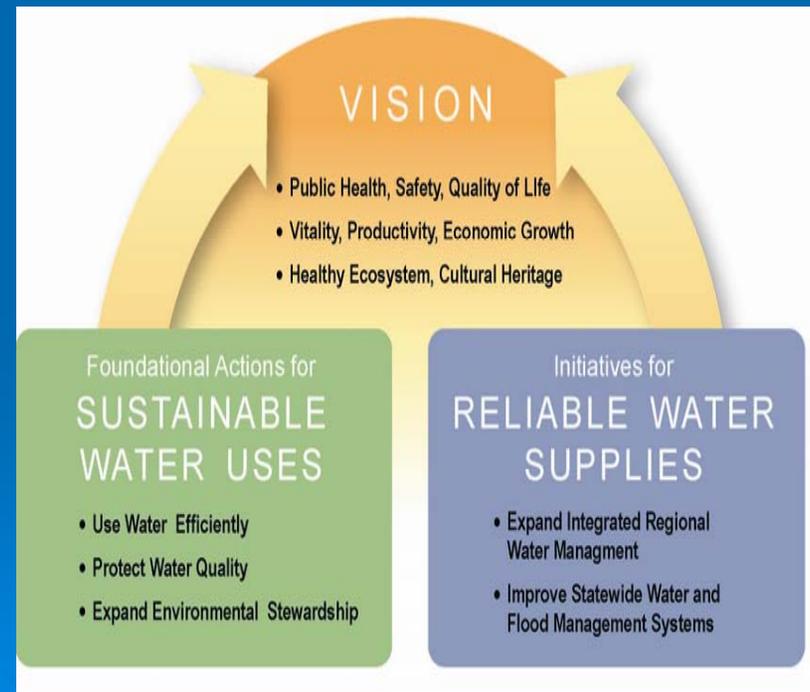
- Population growth
- Shift to permanent crops
- Delta & watersheds in decline
- Climate Change profoundly impacting water systems
- Aging water & flood systems challenged by legal remedies & regulatory protections
- Growing economic & societal consequences of declining water reliability and degraded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

Imperative to Act to Keep Pace w/ Changes

The *Entire System* –

water & flood management,
watersheds & ecosystems

– has lost resilience and is
changing in undesirable ways.

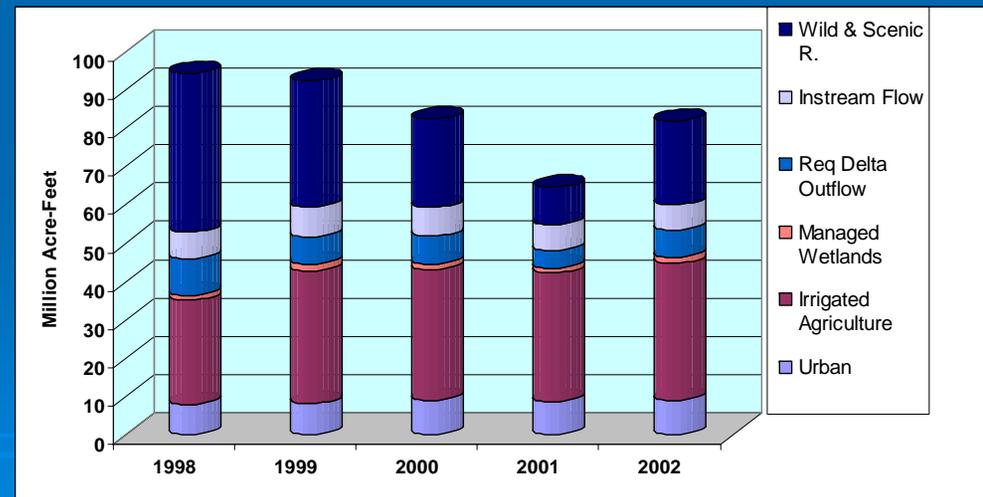
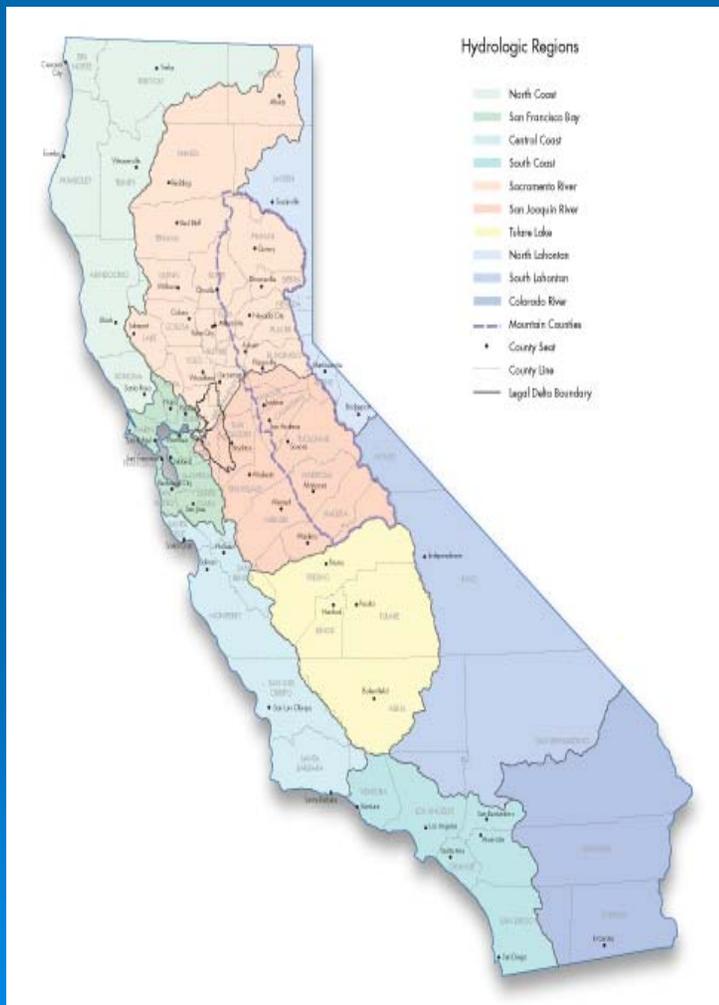


CA Water -- Variable & Extreme

pages 6 - 7

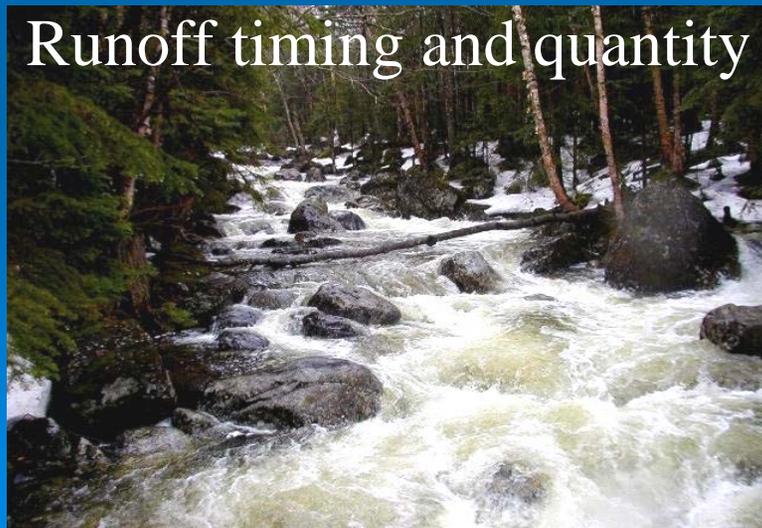
Water Portfolios

80 data categories for 1998 - 2005



Climate Change Increasing Stress on System

pages 8 - 9



How Climate Change Impacts California's Water Resources



- *Reduced snowpack* impacting water supply and hydropower
- *Earlier snowmelt* increasing flood control portion of reservoir space
- *Higher water temperatures* degrading aquatic ecosystems
- *Rising sea level* threatening the Delta, bays, estuaries & coastline
 - destabilizing levees
 - increasing SW/GW salinity
- *Higher water demand* all sectors

Update 2009 – State's Blueprint Integrated Water Management & Sustainability pages 10 - 11



Update 2009 Features



- Provides an investment guide for the water community with an array of strategies to 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 water & flood planning for the future.

Update 2009 Features

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



Strategic Plan Elements

double foldout 10A – 10D

➤ 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

3 Water Scenarios

A Range of Considerations thru 2050

pages 12 - 13

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



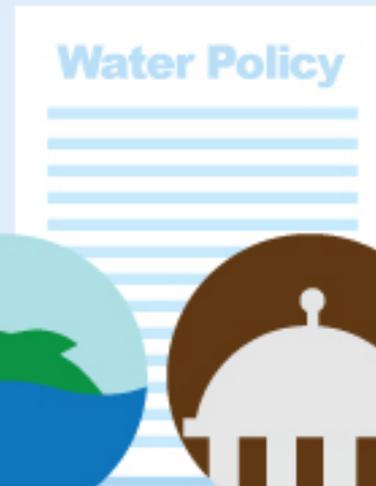
Social Practices



Natural Systems



Institutional & Political



- **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 [pages 14 – 15]

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

Variable Conditions & Unique Responses

12 Regional Reports

pages 16 - 17

- 
- 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

Recommendations [page 19]

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

Questions ?

