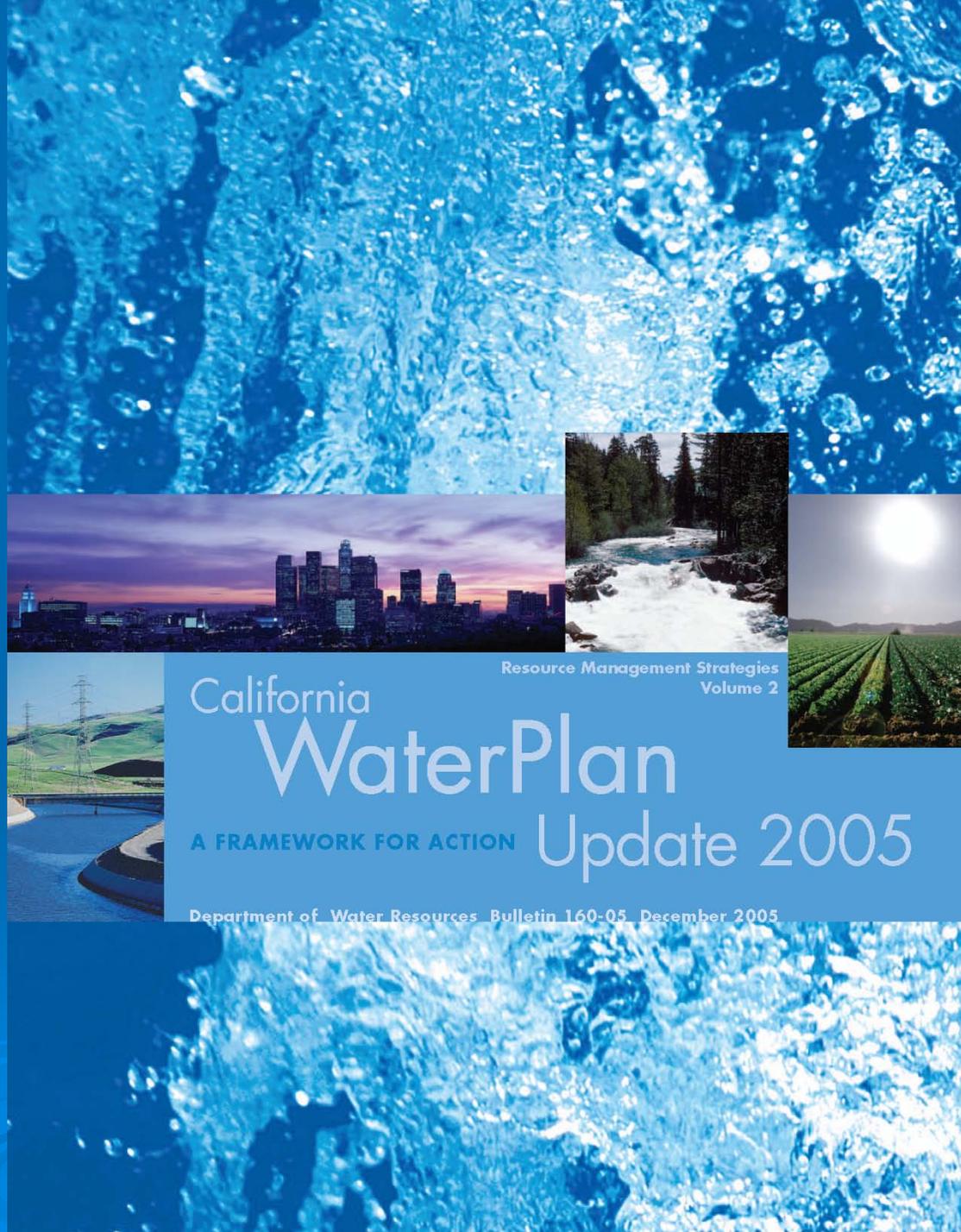


# California Water Plan Update 2009

## Initial Drafts Resource Management Strategies

## 2008 Regional Workshops



Resource Management Strategies  
Volume 2

# California WaterPlan

A FRAMEWORK FOR ACTION Update 2005

Department of Water Resources Bulletin 160-05 December 2005

# Updating Resource Management Strategies for California Water Plan Update 2009

- **Report on strategies to achieve these objectives**
  - Reduce water demand
  - Improve operational efficiency & transfers
  - Increase water supply
  - Improve water quality
  - Practice resource stewardship
  - Improve flood management
  - Other
- **Focus** – Each resource management strategy is a project, program or policy that helps agencies and governments manage their water, flood, and related resources.
- **Content** – Definition, status of current implementation, potential & cost of additional implementation, impediments to implementation, and recommendations to reduce/remove impediments.

# 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

- 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
- Recharge Areas Protection
- Urban Runoff Management

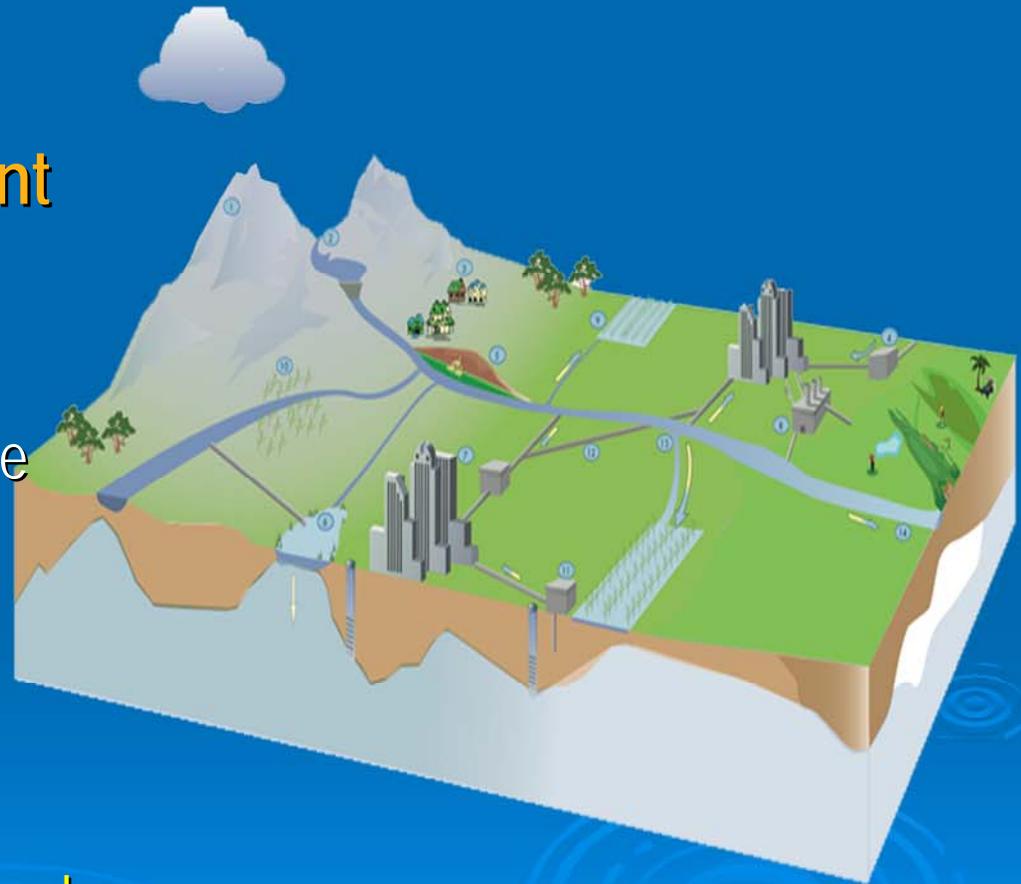
## Practice Resource Stewardship

- Agricultural Lands Stewardship
- Economic Incentives (Loans, Grants, and Water Pricing)
- Ecosystem Restoration
- 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

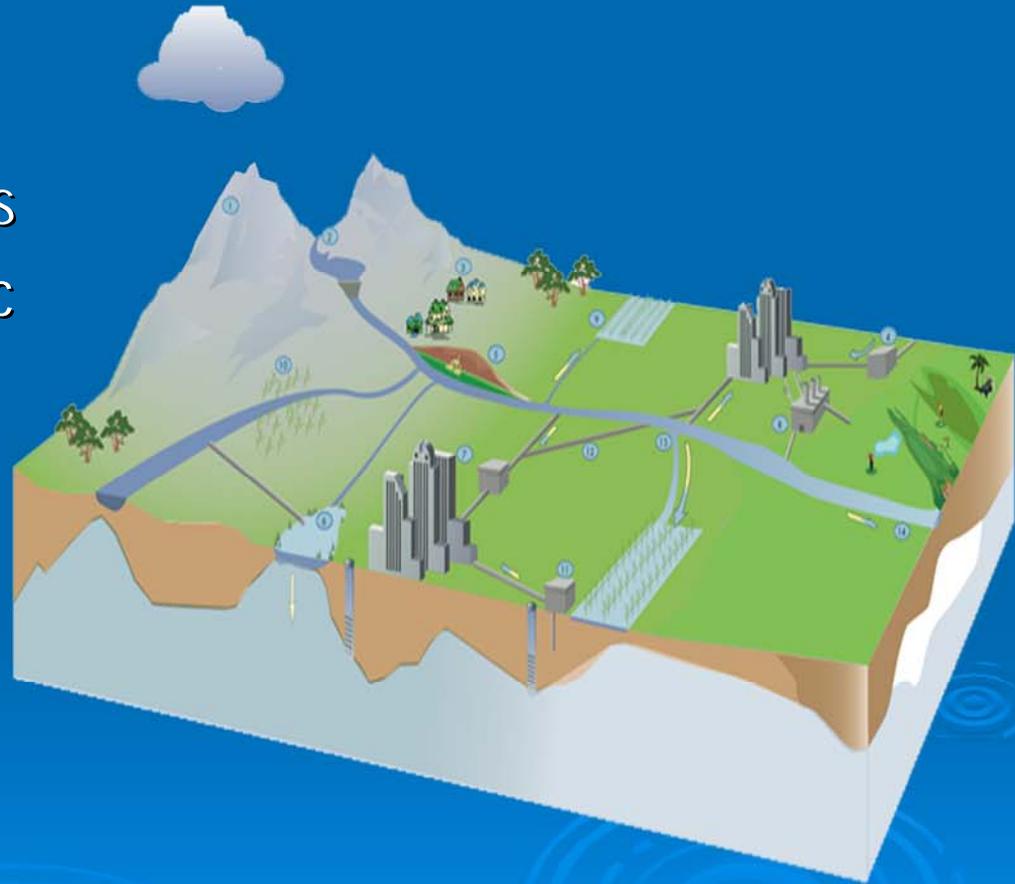
- Modify Flooding
- Modify Susceptibility to Damage
- Modify Impacts of Flooding
- Preserve Natural Floodplain Resources



\*\* Floodplain Management is merged into these strategies

# Other Strategies Having More Limited Capacity

- Crop-idling for Water Transfers
- Dewvaporation or Atmospheric Pressure Desalination
- Fog Collection
- Irrigated Land Retirement
- Rainfed Agriculture
- Waterbag Transport/Storage Technology



# RMS Narratives Table of Contents

- **Definition** – background factors
- **[RMS] in California** – what is happening today and background
- **Potential Benefits of [RMS]** – how much water, demand reduction, ecosystem restoration, flood protection, or other water management objectives could be achieved regionally and statewide by planning horizon for Update 2009
- **Potential Costs of [RMS]** – implementation costs to achieve the additional regional and statewide benefits
- **Major Issues Facing [RMS]** – tradeoffs and challenges associated with implementing each strategy
- **Recommendations to Promote/Better Manage [RMS]** – how the strategy could be implemented over the next 25-30 years in a sustainable way to minimize its impacts, while achieving additional benefits
- **Selected References** – information supporting the narrative

# Considerations for Updating Resource Mgmt Strategies

- Advances, improvements, new implementation and possible setbacks of RMS since Update 2005
  - Mention State government policies & goals
  - Highlight regional achievements & perspectives
- How strategy implementation can benefit or impede:
  - drought preparedness
  - flood management (risk & protection)
  - water quality
  - energy (generation & consumption)
  - environmental / resource stewardship
- If & how climate change causes new challenges or provides new opportunities for implementing the RMS and achieving its potential benefits

# More Considerations for Updating Resource Mgmt Strategies

- Inter-regional & statewide benefits
- What action needs to be taken -- Who needs to take action?
- By when should recommendations be achieved?
  - immediately (by 2011)
  - short-term (before the 2013 Water Plan Update)
  - long-term (during this Water Plan's planning horizon)
- What performance measures (metrics) need to be monitored to assess when & how well (sustainable) recommendation is implemented?

# Five Bites at the Water Plan Apple

## Schedule of Draft Regional Reports & Resource Management Strategies

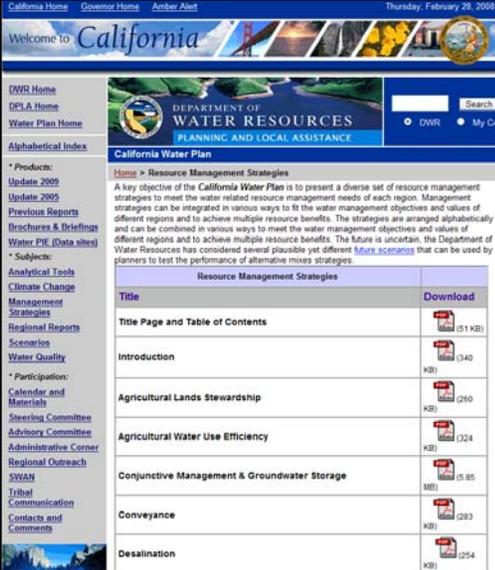
Draft Document	Public Distribution (Post Online)	Public Venues for Discussion of Drafts	Final Date for Public Comments
<b>Initial Draft</b>	<u>Regional Reports:</u> 2 weeks before workshops <u>Resource Mgmt Strategies:</u> Week of March 3	2008 Regional Workshops (Regional Reports) <b>March '08 - Advisory Committee (RMS)</b>	<b>April 18, 2008</b>
Working Draft	May 28, 2008	May/June '08 All-Regions Forum July '08 Advisory Committee	Aug 1, 2008
Preview Administrative Draft	September 3, 2008	Sep '08 Plenary Meeting	Oct 6, 2008
Public Review Draft	December 31, 2008	Mar '09 Advisory Committee Spring '09 - Public Comment Workshops	June 12, 2009
Preview Final Update 2009	August 31, 2009	Sep '09 Plenary Meeting	Oct 1, 2009
Final Update 2009	December 31, 2009	To Governor, Legislature & Public distribution	FINAL

# Commenting on Initial Drafts

➤ Comments on Initial Drafts needed by **April 18th**

Where to find Update 2009 Initial Drafts:

**Resource Management Strategies:**  
[www.waterplan.water.ca.gov/strategies/](http://www.waterplan.water.ca.gov/strategies/)



The screenshot shows the California Department of Water Resources website. The main heading is "California Water Plan" and the sub-heading is "Resource Management Strategies". A table lists various strategies with their titles and download links. The table is as follows:

Title	Download
Title Page and Table of Contents	 (1 KB)
Introduction	 (140 KB)
Agricultural Lands Stewardship	 (210 KB)
Agricultural Water Use Efficiency	 (224 KB)
Conjunctive Management & Groundwater Storage	 (585 MB)
Conveyance	 (283 KB)
Desalination	 (254 KB)

# Where to Send Comments:

➤ E-mail: [pdabbs@water.ca.gov](mailto:pdabbs@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 main heading is "California Water Plan" and the sub-heading is "Public Comments". Below this, there are two tables of comments. The first table is for "2007 Comments" and the second is for "2009 Comments". Each table has columns for Date, Received, Author, Organization, Subject, and Comment. The 2009 comments table includes entries from the California Association of Counties, California State Association of Counties, California Water Association, League of Women Voters, The Nature Conservancy, California Urban Water Conservation Council, and California Department of Fish and Game.

Date	Received	Author	Organization	Subject	Comment
01150009	01150009	Geurt, Elizabeth	California Association of Counties	Strategic Plan Elements	<a href="#">Email</a> ( pdf: 9 kb)
01050009	01050009	Calaway, Merla	California State Association of Counties	Strategic Plan Elements	<a href="#">Email</a> ( pdf: 13 kb)
01080009	01080009	Havix, Jack	California Water Association	Strategic Plan Elements	<a href="#">Email</a> ( pdf: 28 kb)
01080009	01080009	Sullivan, John D.	League of Women Voters	Strategic Plan Elements	<a href="#">Document</a> ( pdf: 37 kb)
01080009	01080009	Talayan, Susan	The Nature Conservancy	Strategic Plan Elements	<a href="#">Email</a> ( pdf: 14 kb)
01090009	01090009	Brown, Chris	California Urban Water Conservation Council	Strategic Plan Elements	<a href="#">Letter</a> ( pdf: 16 kb)
02040009	02040009	Foreberg, Paul	California Department of Fish and Game	Strategic Plan Elements	<a href="#">Document</a> ( pdf: 28 kb)

[www.waterplan.water.ca.gov/comments/update2009/](http://www.waterplan.water.ca.gov/comments/update2009/)