California Water Plan Update 2009

Initial Drafts Resource Management Strategies

2008 Regional Workshops
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
Resource Mgmt Strategies 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?
### Draft Document

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

- **E-mail:** cwpcom@water.ca.gov
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www.waterplan.water.ca.gov/comments/update2009/