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

<table>
<thead>
<tr>
<th>Reduce Water Demand</th>
<th>Improve Water Quality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agricultural Water Use Efficiency</td>
<td>Drinking Water Treatment and Distribution</td>
</tr>
<tr>
<td>Urban Water Use Efficiency</td>
<td>Groundwater/Aquifer Remediation</td>
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<table>
<thead>
<tr>
<th>Improve Operational Efficiency &amp; Transfers</th>
<th>Practice Resource Stewardship</th>
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<tbody>
<tr>
<td>Conveyance</td>
<td>Agricultural Lands Stewardship</td>
</tr>
<tr>
<td>System Reoperation</td>
<td>Economic Incentives (Loans, Grants, and Water Pricing)</td>
</tr>
<tr>
<td>Water Transfers</td>
<td>Ecosystem Restoration</td>
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<table>
<thead>
<tr>
<th>Increase Water Supply</th>
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<tbody>
<tr>
<td>Conjunctive Management &amp; Groundwater Storage</td>
<td>Urban Land Use Management</td>
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<tr>
<td>Desalination – Brackish &amp; Seawater</td>
<td>Water-Dependent Recreation</td>
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<tr>
<td>Precipitation Enhancement</td>
<td>Watershed Management</td>
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<tr>
<td>Recycled Municipal Water</td>
<td>Forest Management</td>
</tr>
<tr>
<td>Surface Storage – CALFED</td>
<td>(new stewardship strategy including meadow restoration)</td>
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<tr>
<td>Surface Storage - Regional/Local</td>
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<th>Practice Resource Stewardship</th>
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</table>

*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 set-backs 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

<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 <strong>Resource Mgmt Strategies:</strong> Week of March 3</td>
<td>2008 Regional Workshops (Regional Reports) <strong>March ’08 - Advisory Committee (RMS)</strong></td>
<td><strong>April 18, 2008</strong></td>
</tr>
<tr>
<td><strong>Working Draft</strong></td>
<td><strong>May 28, 2008</strong></td>
<td><strong>May/June ’08 All-Regions Forum</strong></td>
<td><strong>Aug 1, 2008</strong></td>
</tr>
<tr>
<td><strong>Preview Administrative Draft</strong></td>
<td><strong>September 3, 2008</strong></td>
<td><strong>Sep ’08 Plenary Meeting</strong></td>
<td><strong>Oct 6, 2008</strong></td>
</tr>
<tr>
<td><strong>Public Review Draft</strong></td>
<td><strong>December 31, 2008</strong></td>
<td><strong>Mar ’09 Advisory Committee</strong></td>
<td><strong>June 12, 2009</strong></td>
</tr>
<tr>
<td><strong>Preview Final Update 2009</strong></td>
<td><strong>August 31, 2009</strong></td>
<td><strong>Sep ’09 Plenary Meeting</strong></td>
<td><strong>Oct 1, 2009</strong></td>
</tr>
<tr>
<td><strong>Final Update 2009</strong></td>
<td><strong>December 31, 2009</strong></td>
<td><strong>To Governor, Legislature &amp; Public distribution</strong></td>
<td><strong>FINAL</strong></td>
</tr>
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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:** 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

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