California's Water Challenge
Thursday, October 14, 2010

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Metropolitan Water District of Southern California
Metropolitan Water District of Southern California

- Serves 6 counties, 19 million people
- Growth: 200,000 people/yr
- $800 billion economy
- 50% of region’s water supply
Water Supply Sources for Southern California

- State Water Project
- Los Angeles Aqueduct
- Colorado River Aqueduct
- Local
Diversification of Water Portfolio

**Early 1990’s**
Heavy dependence on imported supply and SWP Diversions

**Current Strategy**
Emphasis on Conservation, Local Supplies, and Storage & Transfers
Colorado River Aqueduct

After Quantification Settlement Agreement
SWP System

Lake Oroville

Banks Pumping Plant

San Luis Reservoir

California Aqueduct

Terminal Reservoirs
The Bay-Delta
Hub of California’s Water

Bay Area – 33%

Some regions up to 100% dependent

Central Valley – 23 to 90%

Southern Cal – 30%
Key Delta Risks

Fishery Declines

Delta smelt

Subsidence

Seismic Risk

Bay Area Faults

Sea Level Rise
Multi-species approach to endangered species protection

Includes habitat conservation, conveyance improvements, other invasive species, toxics control
Partnered Local Supplies

- Recycling
- Desalination
- Groundwater Recovery & Conjunctive Use
- Conservation

Family of Southern California Water Agencies
bewaterwise.com
Conservation Programs

- Residential
- Indoor
- Commercial
- Landscape

You’re suffering from an overactive sprinkler. bewaterwise.com
Total Conservation

882,000 acre-ft/yr in 2010
### Investment in Local Water Projects

Invested $338 million through 2009/10

<table>
<thead>
<tr>
<th>Program</th>
<th>Number of Projects</th>
<th>Deliveries to Date (AF)</th>
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</thead>
<tbody>
<tr>
<td>Recycling</td>
<td>62</td>
<td>1,330,000</td>
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<tr>
<td>Groundwater Recovery</td>
<td>22</td>
<td>515,000</td>
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<tr>
<td>Desalination</td>
<td>3 Contracts</td>
<td>-</td>
</tr>
</tbody>
</table>
Regional Storage:
- 3 Reservoirs
- 10 Groundwater Programs
- DWR State Project Reservoirs

Total Storage Capacity: 4.9 million AF

Sacramento Valley Transfers

San Joaquin Valley Transfers

SWP – 6 Storage Programs

CRA Storage and Agricultural Transfers

Regional Storage:
- 3 Reservoirs
- 10 Groundwater Programs
- DWR State Project Reservoirs
Meeting Future Demand Increases Through “Local” Resources

Conservation Today

Urban Demand

Conservation Goal (2025)

~ 1 billion gal/day (1.1 million AF/yr)

~ 2 billion gal/day (2.1 million AF/yr)

Conservation

Groundwater Recovery

Recycling & Desalination

San Francisco
Los Angeles
San Diego
Planning For Uncertainty

- Water Quality
- Endangered Species
- Natural Disaster
- Climate Change
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