Drought Impacts: Department of Public Health Perspective

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Presentation Goals
- State’s Existing Water Supply Situation and Drought Impacts
- Governor’s Drought Proclamation
- DPH’s Guidance to PWS and Staff

Inventory of CWS (840 total>500 sc)

<table>
<thead>
<tr>
<th>System Size</th>
<th>Total Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Very Large (&gt;3300 or wholesaler)</td>
<td>404</td>
</tr>
<tr>
<td>Large (1000 to 3300 sc)</td>
<td>280</td>
</tr>
<tr>
<td>Medium (500 to 999 sc)</td>
<td>156</td>
</tr>
<tr>
<td>Small (100 to 499 sc)</td>
<td>611</td>
</tr>
<tr>
<td>Very Small (25 to 99 sc)</td>
<td>1044</td>
</tr>
</tbody>
</table>

Golden State’s Unique Challenges
- Global Climate Change Impacts to Precipitation Patterns
- Population Growth—20% increase projected before 2020
- Drought Impacts to the Colorado River Watershed
- Court Rulings limiting pumping through the Delta
- Regulatory Changes for Arsenic and DBPs

State’s Water Supply Picture

Water Agency Response

Mandatory-32 Urging Actions-62
*As of May 27th*

**ACWA Provided See Website**
Even with the recent rainfall, California faces its third consecutive year of drought and we must prepare for the worst—a fourth, fifth or even sixth year. "A drought," Governor Schwarzenegger said. "Last year we experienced the driest spring and summer on record and storage in the state’s reservoir system is near historic lows. This drought is having a devastating impact on our people, our communities, our economy and our environment—making today’s action absolutely necessary. This is a crisis, just as severe as an earthquake or raging wildfire, and we must treat it with the same urgency by upgrading California’s water infrastructure to ensure a clean and reliable water supply for our growing state."

Drought Proclamation—Feb.27, 2009

**Drought Proclamation Directives included:**

- **1.** The California Department of Water Resources (DWR) shall, in partnership with other appropriate agencies, launch a statewide water conservation campaign calling for all Californians to immediately decrease their water use.

- **11.** The Department of Public Health shall evaluate the adequacy of emergency interconnections among the state’s public water systems, and provide technical assistance and continued financial assistance from existing resources to improve or add interconnections.

- **19.** All urban water users immediately increase their water conservation activities in an effort to reduce their individual water use by 20 percent.
DWP Guidance to PWS

- All public water supply systems are encouraged to keep records of their water system production and delivery activities through metering at the source and at customer connections.
- All public water supply systems are encouraged to adopt metered water rates that reflect the full cost of the water production and delivery and encourages customers to minimize water use through progressively increasing water rates which penalizes excessive water use. Systems that do not have customer meters and effective metered rates are encouraged to take the steps needed to install meters and adopt effective metered rates.

- Public water systems that have been invited to submit an application for funding under the State Receiving Fund (SRF), Proposition 84 and Proposition 50 programs whose projects contribute to water conservation and improved drought reliability will be given high priority.
- All public water supply systems requesting funding from the SRF and other infrastructure funding programs such as Proposition 84 and Proposition 50 funding will be given, where possible, additional consideration for funding if they are implementing an effective metered rate structure to encourage efficient customer water use.

DWP Staff Inspection Items

- During system inspections the following data will be gathered and updated on a regular basis from systems determined to be at risk:
  - Water monitoring data (depth to groundwater in wells, reservoir storage capacity, treatment plant or well production, treatment plant waste residual losses, water sales, etc),
  - Water production vs. water usage = water loss data (innovative ways of detecting water leaks),
  - Water conservation efforts undertaken by a utility.

DWP Staff Inspection Items

- Information on water system budgets, including capital reserve funds which are to be available for system upgrades and emergency repairs will be stressed in the Technical Managerial and Financial requirements.
Water Systems Subject to Drought cont.

<table>
<thead>
<tr>
<th>Water System</th>
<th>Location</th>
<th>CWS</th>
<th>Population</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monterey Forest Lake MWC</td>
<td>Merced</td>
<td>327</td>
<td>1134</td>
</tr>
<tr>
<td>Merced TUD-Curtis Creek Ranches</td>
<td>Merced</td>
<td>160</td>
<td>500</td>
</tr>
<tr>
<td>Merced Shaver Lake Heights MWC</td>
<td>Merced</td>
<td>221</td>
<td>370</td>
</tr>
<tr>
<td>Hillview Water Company-Raymond</td>
<td>Merced</td>
<td>80</td>
<td>243</td>
</tr>
<tr>
<td>Whispering Pines Apts</td>
<td>Merced</td>
<td>21</td>
<td>50</td>
</tr>
<tr>
<td>Yosemite Ridge Resort</td>
<td>Merced</td>
<td>23</td>
<td>32</td>
</tr>
<tr>
<td>Golden Hills MHP</td>
<td>Merced</td>
<td>76</td>
<td>200</td>
</tr>
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</table>

Interconnections Between Water Systems

<table>
<thead>
<tr>
<th>Suburban WD</th>
<th>City of Sacramento</th>
<th>GSWC-Arden</th>
<th>Carmichael WD</th>
<th>CalAm-Lincoln Oaks</th>
<th>Citrus Heights ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sacramento Suburban WD</td>
<td>City of Sacramento</td>
<td>GSWC-Arden</td>
<td>Carmichael WD</td>
<td>CalAm-Lincoln Oaks</td>
<td>Citrus Heights ID</td>
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Information

- **Contact information:**
  - Gary.Yamamoto@cdph.ca.gov
  - (916) 449-5577

- **For drought impacted PWS list:**

- **CDPH drought information:**
  - [http://www.cdph.ca.gov/certlic/drinkingwater/Pages/DroughtPreparedness.aspx](http://www.cdph.ca.gov/certlic/drinkingwater/Pages/DroughtPreparedness.aspx)