

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

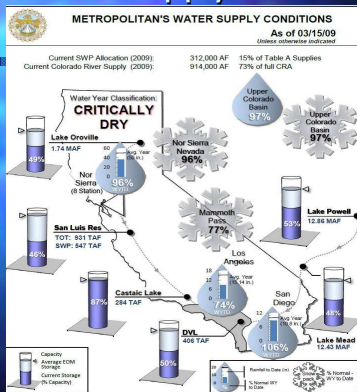
Inventory of CWS (840 total >500 sc)

System Size	Total Number
Very Large (>3300 or wholesaler)	404
Large(1000 to 3300 sc)	280
Medium (500 to 999 sc)	156
Small(100 to 499 sc)	611
Very Small (25 to 99 sc)	1044

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!

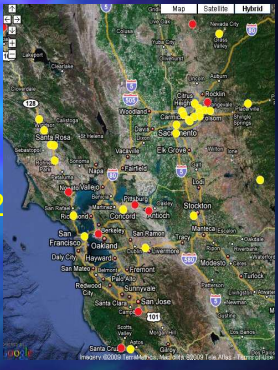
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Drought Proclamation—Feb.27, 2009

- “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 of 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 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.

Drought Proclamation Directives included:

- 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.

Drought Proclamation Directives included:

- 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.

DWP Guidance to PWS

- Public water systems that have been invited to submit an application for funding under the State Revolving 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 Guidance to PWS

- The difference in water produced vs. the water sold to customers should be tabulated and tracked at least on an annual basis. All public water supply systems will be encouraged to regularly conduct evaluations of the water losses in their delivery systems. This information should be used to identify badly worn transmission and distribution system pipelines and storage facilities which contribute to a significant loss of water.

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

Name of PWS	County	Type of PWS	Pop.	# of SC
Larobe Elementary School	Sacramento	WWS	60	1
Rio Linda / Elverta CSD	Sacramento	CWS	17,000	1000
Mackinville Mutual Water Company	Sacramento	CWS	400	150
Kirkwood Meadows PUD (hardrock wells)	Sacramento	CWS	848	150
Rancho Murrelet CSD	Sacramento	CWS	6060	2525
Fruitridge Valley Water Company	Sacramento	CWS	15000	4785
Grizzly Falls CSD	Sacramento	CWS	1300	583
El Dorado Irrigation District	Sacramento	CWS	497	189

Water Systems Subject to Drought cont.

Fores Lake MWC	Monterey	CWS	1134	327
TUD-Curtis Creek Ranches	Merced	CWS	160	160
Hillview Water Company-Raymond	Merced	CWS	241	60
Shaver Lake Heights MWC	Merced	CWS	370	221
Hillview Water Company-Coarsegold Highlands	Merced	CWS	72	24
Coltonville CSA #1	Merced	CWS	130	56
Fishcamp MWC	Merced	CWS	200	76
Golden Hills MHP	Merced	CWS	25	12
Yosemite Ridge Resor	Merced	CWS	32	23
Whispering Pines App's	Merced	CWS	50	21

Interconnections Between Water Systems

Sacramento Suburban WD	3410006	Crus Heights D
	3410013	California Lincoln Oaks
	3410004	Carmichael WD
	3410003	GSWC Arden
	3410020	Cytos Sacramento
Carmichael WD	3410009	Fair Oaks WD
	3410006	Crus Heights D
	3410001	Sacramento Suburban WD

Information

- Contact information:
 - Gary.Yamamoto@cdph.ca.gov
 - (916) 449 5577
- For drought impacted PWS list:
 - <http://www.cdph.ca.gov/certlic/drinkingwater/Documents/Drought/SystemsVulnerabletoDroughtRanking.xls>
- CDPH drought information:
 - <http://www.cdph.ca.gov/certlic/drinkingwater/Pages/DroughtPreparedness.aspx>