

Monthly Report

To: David Dickson, General Manager
From: Cathleen Brennan, Water Resources Analyst
Agenda: February 9, 2010

Subject: Water Shortage and Drought Contingency Planning

This report is provided as an update on the implementation of the Water Shortage and Drought Contingency Plan – Stage 1 (Advisory Stage). The Advisory Stage was implemented in June of 2007. In June of 2008, Governor Schwarzenegger declared a state - wide drought. On February 27, 2009, Governor Schwarzenegger proclaimed a state of emergency due to drought conditions and the resulting water shortage.

- √ **Local Precipitation Records by Water Year.**
 - Water year 2007 was critically dry at 67% of annual historic average.
 - Water year 2008 was dry at 72% of the annual historic average.
 - Water year 2009 was dry at 78% of annual historic average.
 - Water year 2010 started on October 1, 2009. Local precipitation is at 92% of normal to date.

Precipitation for Half Moon Bay														
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total	
Historic Average	1.3	3.4	3.7	5.5	4.8	3.9	1.6	0.6	0.2	0.0	0.1	0.3	25.4	
	2009			2010										
Water Year 2010	3.37	0.41	2.61	6.42									12.81	
	2008			2009										
Water Year 2009	0.5	2.4	2.6	0.9	8.7	2.8	0.3	1.0	0.1	0.1	0.1	0.4	19.9	
	2007			2008										
Water Year 2008	1.8	0.9	3.2	8.8	2.7	0.3	0.2	0.1	0.0	0.1	0.1	0.1	18.3	
	2006			2007										
Water Year 2007	0.2	3.2	4.2	0.7	5.3	0.8	1.6	0.4	0.1	0.3	0.0	0.2	17.0	

√ **California's Snow Survey**

The good news is the latest snow survey indicates that California's snowpack is 115% of normal to date statewide. The snow survey press release is attached.

√ **San Francisco Public Utilities Commission**

Precipitation for Pilarcitos Lake watershed is at 88% of normal to date and precipitation for Lower Crystal Springs is at 96% of normal to date. Precipitation for the Hetch Hetchy watershed is at 109.7% percent of normal to date.

For more information regarding precipitation and storage levels for the Hetch Hetchy System, please refer to the San Francisco Public Utilities Commission Hydrological Conditions Report for January 2010, in the Board packet.



News for Immediate Release

January 29, 2010

Contacts:

Don Strickland, Information Officer	(916) 653-9515
Ted Thomas, Information Officer	(916) 653-9712
Eric Alvarez, Information Officer	(916) 653-3925
David Rizzardo, Snow Surveys	(916) 574-2983
Frank Gehrke, Snow Surveys Office	(916) 952-4044
(on-site cell phone number on day of survey)	

DWR Announces Second Snow Survey Results of 2009/2010 Winter Season

SACRAMENTO – Manual and electronic readings today indicate that water content in California’s mountain snowpack is 115 percent of normal for the date statewide. This time last year, snow water content was 61 percent of normal statewide.

“Today’s snow survey offers us some cautious optimism as we continue to play catch-up with our statewide water supplies,” said DWR chief deputy director Sue Sims. “We are still looking at the real possibility of a fourth dry year. Even if California is blessed with a healthy snowpack, we must learn to always conserve this finite resource so that we have enough water for homes, farms, and businesses in 2010 and in the future.”

Lake Oroville, the principal storage reservoir for the State Water Project (SWP) is at 33 percent of capacity, and 50 percent of average storage for this time of year. Lake Shasta, the principal storage reservoir for the federal Central Valley Project, is at 56 percent of capacity, and 82 percent of average for the date.

DWR’s early allocation estimate was that the agency would only be able to deliver 5 percent of requested SWP water this year, reflecting low storage levels, ongoing drought conditions, and environmental restrictions on water deliveries to protect fish species. The agency will recalculate the allocation after current snow survey results and other conditions are evaluated.

Results of today’s manual survey by the Department of Water Resources (DWR) off Highway 50 near Echo Summit are as follows:

Location	Elevation	Snow Depth	Water Content	% of Long Term Average
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Alpha	7,600 feet	69.3 inches	20.3 inches	96
Phillips Station	6,800 feet	62.6 inches	20.3 inches	106
Lyons Creek	6,700 feet	78.2 inches	22.9 inches	117
Tamarack Flat	6,500 feet	67.8 inches	20.2 inches	106

Electronic sensor readings show northern Sierra snow water equivalents at 129 percent of normal for this date, central Sierra at 101 percent, and southern Sierra at 119 percent. The sensor readings are posted at <http://cdec.water.ca.gov/cgi-progs/snow/DLYSWEQ>.

DWR estimates that fishery agency restrictions on Delta pumping adopted in the past year to protect Delta smelt, salmon, and other species could reduce annual deliveries of State Water Project water by 30 percent.

Governor Schwarzenegger has championed a comprehensive water plan that he recently signed into law. The package would safeguard the state's water supply through conservation, more surface and groundwater storage, new investments in the state's aging water infrastructure, and improved water conveyance to protect the environment and provide a reliable water supply.

Importance of Snow Surveying

Snow water content is important in determining the coming year's water supply. The measurements help hydrologists prepare water supply forecasts as well as provide others, such as hydroelectric power companies and the recreation industry, with needed data.

Monitoring is coordinated by the Department of Water Resources as part of the multi-agency California Cooperative Snow Surveys Program. Surveyors from more than 50 agencies and utilities visit hundreds of snow measurement courses in California's mountains to gauge the amount of water in the snowpack.

The Department of Water Resources operates and maintains the State Water Project, provides dam safety and flood control and inspection services, assists local water districts in water management and water conservation planning, and plans for future statewide water needs.