

## Summary of Water Conditions February 1, 2013

Water year 2012-13 started well with a wet November and December. But January, our wettest month, was in the driest 10 percent for the month. Seasonal precipitation totals are still near average, but continuing dry weather is raising questions about what this year will eventually produce. About 40 percent of the rainy season is left. About half the seasonal precipitation in northern California so far was from two atmospheric river (i.e., pineapple express) events, one at the end of November and the second just before Christmas. The February 1 snowpack, at 90 percent of average, is a bit less than the seasonal precipitation because the first major storm period was warmer than average, with rain falling at higher elevations. Stream flow matches precipitation percentages and is near average for now and better in the north than in the south. Reservoir storage, boosted significantly during the two big stormy periods, is slightly above average at 105 percent.

**Forecasts** of median April through July runoff are 85 percent of average compared to only 55 percent last year at this time. Water year runoff is projected to be 90 percent of average, but only 70 percent in the southern Sierra.

**Snowpack** water content is about 90 percent for this date. This compares with 35 percent one year ago. The pack is about 55 percent of the April 1 average, normally the time of maximum accumulation. Percentages are less in the lower elevation northern Sierra.

**Precipitation** from October through January is average statewide compared to a poor 60 percent last year. Seasonal amounts are less in southern California. But January precipitation was a meager 30 percent of average statewide for the month.

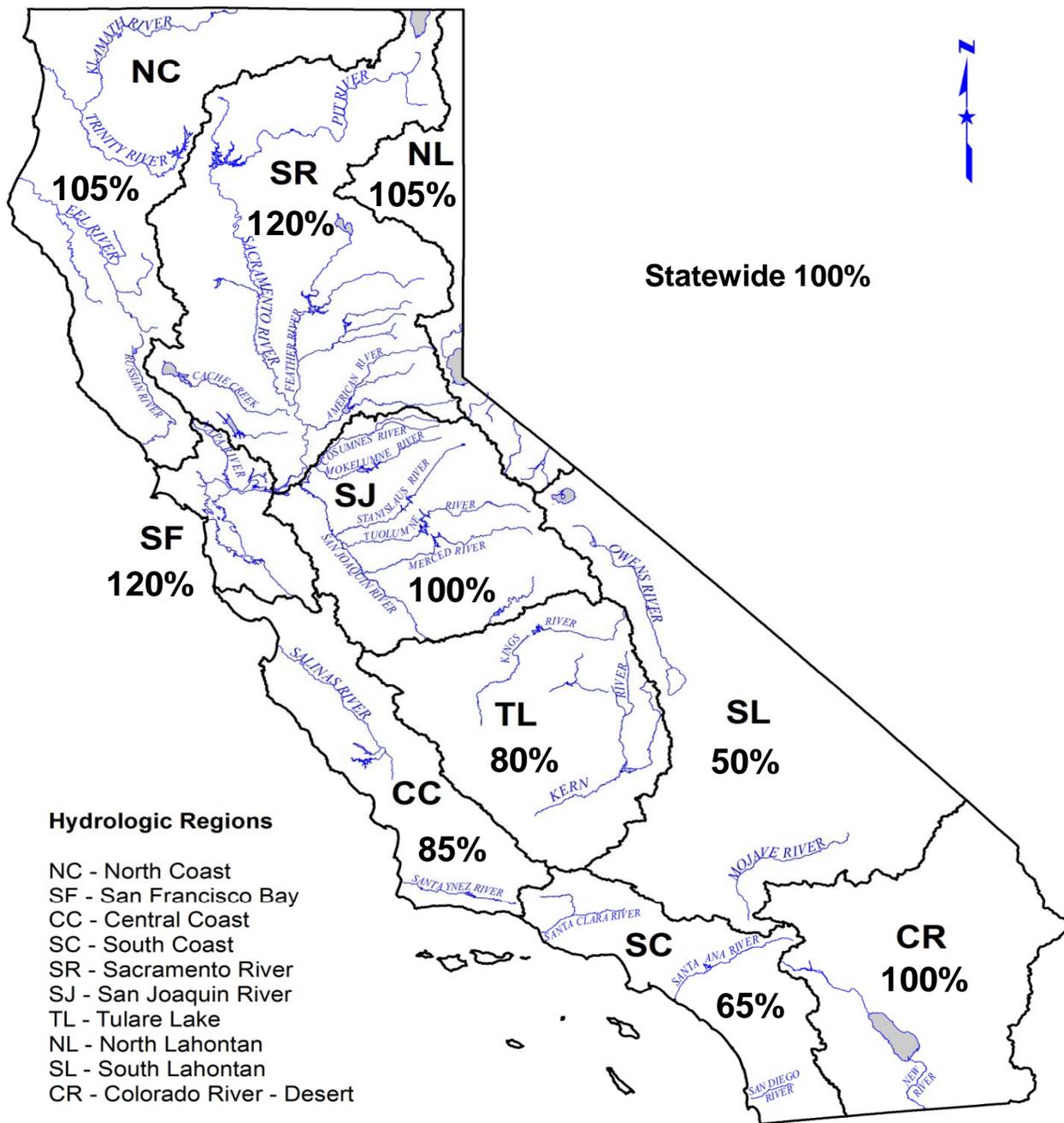
**Runoff** to date has been average, boosted by the two big storm events; last year produced only 40 percent in this 4 month period. Estimated runoff of the eight major rivers of the Sacramento-San Joaquin River region in January was 1.34 million acre-feet.

**Reservoir storage** is about 105 percent of average, a bit less than the 110 percent observed one year ago. The two big storms probably added about 4 million acre-feet to storage or about 10 percent of total in-state capacity. San Luis and Pine Flat reservoirs are lagging.

### SUMMARY OF WATER CONDITIONS IN PERCENT OF AVERAGE

HYDROLOGIC REGION	PRECIPITATION OCTOBER 1 TO DATE	FEBRUARY 1 SNOW WATER CONTENT	FEBRUARY 1 RESERVOIR STORAGE	RUNOFF OCTOBER 1 TO DATE	APR-JULY RUNOFF FORECAST	WATER YEAR RUNOFF FORECAST
NORTH COAST	105	90	110	100	80	90
SAN FRANCISCO BAY	120	--	100	140	--	--
CENTRAL COAST	85	--	90	85	--	--
SOUTH COAST	65	--	90	30	--	--
SACRAMENTO RIVER	120	80	115	105	85	95
SAN JOAQUIN RIVER	100	95	100	95	90	90
TULARE LAKE	80	90	65	55	75	70
NORTH LAHONTAN	105	95	115	90	85	85
SOUTH LAHONTAN	50	95	90	100	60	90
COLORADO RIVER-DESERT	100	--	--	--	--	--
<b>STATEWIDE</b>	<b>100</b>	<b>90</b>	<b>105</b>	<b>100</b>	<b>85</b>	<b>90</b>

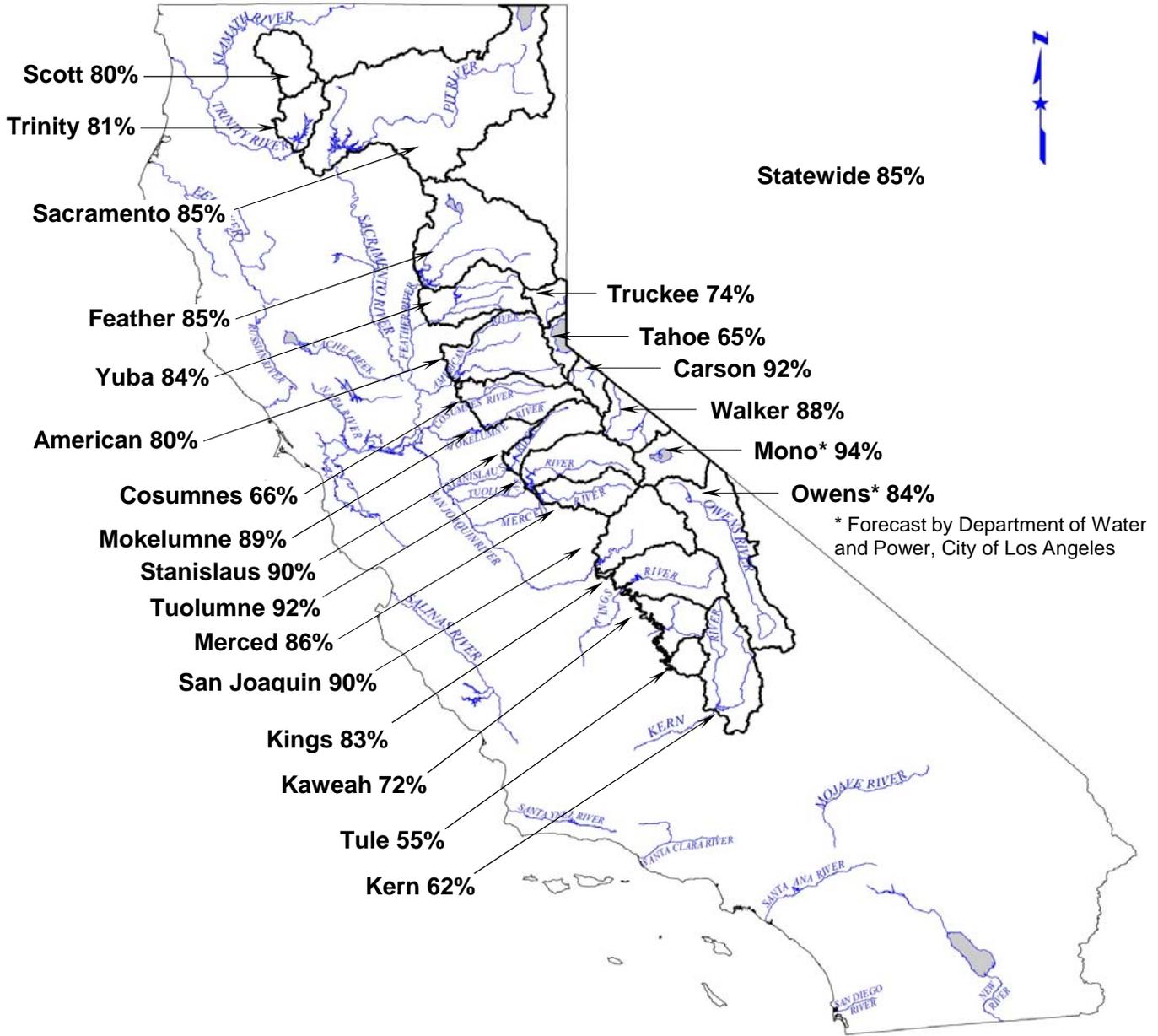
**Department of Water Resources  
California Cooperative Snow Surveys  
Seasonal Precipitation  
in percent of average to date  
October 1, 2012 through January 31, 2013**



WATER YEAR IS OCTOBER 1 THROUGH SEPTEMBER 30

**Department of Water Resources  
California Cooperative Snow Surveys  
Forecast of April through July Unimpaired Runoff  
in percent of historical average  
as of February 1, 2013**

**Legend**  
85% Runoff forecast in percent of normal



**FEBRUARY 1, 2013 FORECASTS  
APRIL-JULY UNIMPAIRED RUNOFF**

HYDROLOGIC REGION and Watershed	Unimpaired Runoff in 1,000 Acre-Feet (1)					
	HISTORICAL			FORECAST		
	50 Yr Avg (2)	Max of Record	Min of Record	Apr-Jul Forecasts	Pct of Avg	80 % Probability Range (1)
<b>North Coast</b>						
Trinity River at Lewiston Lake (10)	651	1,593	80	<b>530</b>	81%	260 - 950
<b>SACRAMENTO RIVER</b>						
<b>Upper Sacramento River</b>						
Sacramento River at Delta above Shasta Lake	302	711	39	220	73%	
McCloud River above Shasta Lake	392	850	185	350	89%	
Pit River near Montgomery Creek + Squaw Creek	1,046	2,098	480	930	89%	
Total Inflow to Shasta Lake	1,806	3,525	726	<b>1,530</b>	85%	1,070 - 2,530
<b>Sacramento River above Bend Bridge, near Red Bluff</b>	2,485	5,075	943	<b>2,070</b>	83%	1,370 - 3,740
<b>Feather River</b>						
Feather River at Lake Almanor near Prattville (3)	333	675	120	270	81%	
North Fork at Pulga (3)	1,028	2,416	243	830	81%	
Middle Fork near Clio (4)	86	518	4	65	76%	
South Fork at Ponderosa Dam (3)	110	267	13	85	77%	
Feather River at Oroville	1,758	4,676	392	<b>1,500</b>	85%	800 - 2,940
<b>Yuba River</b>						
North Yuba below Goodyears Bar	279	647	51	230	82%	
Inflow to Jackson Mdws and Bowman Reservoirs (3)	112	236	25	90	80%	
South Yuba at Langs Crossing (3)	233	481	57	180	77%	
Yuba River near Smartsville plus Deer Creek	996	2,424	200	<b>840</b>	84%	440 - 1,530
<b>American River</b>						
North Fork at North Fork Dam (3)	262	716	43	190	73%	
Middle Fork near Auburn (3)	522	1,406	100	400	77%	
Silver Creek Below Camino Diversion Dam (3)	173	386	37	130	75%	
American River below Folsom Lake	1,231	3,074	229	<b>980</b>	80%	430 - 2,000
<b>SAN JOAQUIN RIVER</b>						
<b>Cosumnes River at Michigan Bar</b>	128	363	8	<b>85</b>	66%	15 - 265
<b>Mokelumne River</b>						
North Fork near West Point (5)	437	829	104	370	85%	
Total Inflow to Pardee Reservoir	461	1,065	102	<b>410</b>	89%	270 - 710
<b>Stanislaus River</b>						
Middle Fork below Beardsley Dam (3)	334	702	64	290	87%	
North Fork Inflow to McKays Point Dam (3)	224	503	34	190	85%	
Stanislaus River below Goodwin Reservoir (9)	699	1,710	116	<b>630</b>	90%	400 - 1,090
<b>Tuolumne River</b>						
Cherry Creek & Eleanor Creek near Hetch Hetchy	315	727	97	290	92%	
Tuolumne River near Hetch Hetchy	604	1,392	153	560	93%	
Tuolumne River below La Grange Reservoir (9)	1,221	2,682	301	<b>1,120</b>	92%	730 - 1,910
<b>Merced River</b>						
Merced River at Pohono Bridge	372	888	80	330	89%	
Merced River below Merced Falls (9)	636	1,587	123	<b>550</b>	86%	370 - 1,060
<b>San Joaquin River</b>						
San Joaquin River at Mammoth Pool (7)	1,026	2,279	235	950	93%	
Big Creek below Huntington Lake (8)	91	264	11	80	88%	
South Fork near Florence Lake (7)	201	511	58	190	95%	
San Joaquin River inflow to Millerton Lake	1,258	3,355	262	<b>1,130</b>	90%	770 - 1,950
<b>TULARE LAKE</b>						
<b>Kings River</b>						
North Fork Kings River near Cliff Camp (3)	239	565	50	200	84%	
Kings River below Pine Flat Reservoir	1,236	3,113	274	<b>1,030</b>	83%	630 - 1,830
<b>Kaweah River below Terminus Reservoir</b>	290	814	62	<b>210</b>	72%	110 - 450
<b>Tule River below Lake Success</b>	64	259	2	<b>35</b>	55%	9 - 125
<b>Kern River</b>						
Kern River near Kernville	384	1,203	83	250	65%	
Kern River inflow to Lake Isabella	465	1,657	84	<b>290</b>	62%	140 - 770

(1) See inside back cover for definition

(2) All 50 year averages are based on years 1961-2010 unless otherwise noted

(3) 50 year average based on years 1941-90

(4) 44 year average based on years 1936-79

(5) 36 year average based on years 1936-72

(6) 45 year average based on years 1936-81

(7) 50 year average based on years 1953-2002

(8) 50 year average based on years 1946-1995

**FEBRUARY 1, 2013 FORECASTS  
WATER YEAR UNIMPAIRED RUNOFF**

HISTORICAL			Unimpaired Runoff in 1,000 Acre-Feet (1)									FORECAST		
50 Yr Avg (2)	Max of Record	Min of Record	Oct Thru Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Water Year Forecasts	Pct of Avg	80 % Probability Range (1)
1376	2990	200	344	160	185	175	200	120	35	9	7	<b>1,235</b>	90%	860 - 2020
876	1,965	165												
1,200	2,353	557												
3,082	5,150	1,484												
5,979	10,796	2,479	1,860	815	860	580	460	285	205	200	190	<b>5,455</b>	91%	4,370 - 7,805
8,727	17,180	3,294	2,665	1,290	1,300	790	645	380	255	235	235	<b>7,795</b>	89%	6,060 - 12,035
780	1,269	366												
2,417	4,400	666												
219	637	24												
291	562	32												
4,523	9,492	994	1,585	560	715	580	515	280	125	90	80	<b>4,530</b>	100%	3,290 - 7,205
564	1,056	102												
181	292	30												
379	565	98												
2,329	4,926	369	830	280	325	320	340	145	35	20	20	<b>2,315</b>	99%	1,585 - 3,585
616	1,234	66												
1,070	2,575	144												
318	705	59												
2,683	6,382	349	855	310	360	360	400	180	40	10	10	<b>2,525</b>	94%	1,615 - 4,270
385	1,253	20	97	56	66	42	30	10	3	1	0	<b>305</b>	79%	130 - 750
626	1,009	197												
751	1,800	129	140	60	85	115	190	90	15	5	5	<b>705</b>	94%	510 - 1,120
471	929	88												
1,167	2,952	155	195	100	135	180	270	150	30	10	5	<b>1,075</b>	92%	710 - 1,720
461	1,147	123												
770	1,661	258												
1,943	4,631	383	300	135	190	265	450	340	65	20	5	<b>1,770</b>	91%	1,170 - 2,700
461	1,020	92												
1,007	2,787	150	125	75	85	130	230	150	40	10	5	<b>850</b>	84%	550 - 1,480
1,337	2,964	308												
112	298	14												
248	653	71												
1,831	4,642	362	180	90	130	220	420	350	140	35	15	<b>1,580</b>	86%	1,060 - 2,600
284	607	58												
1,729	4,287	386	125	70	95	200	390	330	110	25	15	<b>1,360</b>	79%	880 - 2,330
456	1,402	94	36	25	35	50	85	60	15	5	4	<b>315</b>	69%	180 - 640
147	615	16	15	13	16	15	13	5	2	1	0	<b>80</b>	54%	30 - 250
558	1,577	163												
733	2,318	175	60	30	45	60	100	90	40	20	15	<b>460</b>	63%	250 - 1,130

(9) Forecast point names based on USGS gage names. Stanislaus below Goodwin also known as inflow to New Melones, Tuolumne River below La Grange also known as inflow to Don Pedro, Merced River below Merced Falls also known as inflow to McClure.

(10) Coordinated Forecast by National Weather Service California-Nevada River Forecast Center and Department of Water Resources, State of California

\* Unimpaired runoff in months prior to forecast date are based on measured flows

**FEBRUARY 1, 2013 FORECASTS  
APRIL-JULY UNIMPAIRED RUNOFF**

HYDROLOGIC REGION and Watershed	Apr-Jul Unimpaired Runoff in 1,000 Acre-Feet (1)				
	HISTORICAL			FORECAST	
	50 Yr Avg (2)	Max of Record	Min of Record	Apr-Jul Forecasts	Pct of Avg
<b>NORTH COAST</b>					
<b>Scott River</b>					
Scott River nr Ft Jones (3)	181	398	22	<b>145</b>	80%
<b>Klamath River</b>					
Total inflow to Upper Klamath Lake (4)	515	618	84	<b>440</b>	85%
<hr/>					
<b>NORTH LAHONTAN</b>					
<b>Truckee River</b>					
Lake Tahoe to Farad accretions	256	713	52	<b>190</b>	74%
Lake Tahoe Rise (assuming gates closed, ft)	1.4	5.4	0.2	<b>0.9</b>	65%
<b>Carson River</b>					
West Fork Carson River at Woodfords	53	135	12	<b>46</b>	87%
East Fork Carson River near Gardnerville	186	407	43	<b>175</b>	94%
<b>Walker River</b>					
West Walker River below Little Walker, near Coleville	155	330	35	<b>140</b>	90%
East Walker River near Bridgeport	63	209	7	<b>53</b>	84%
<hr/>					
<b>SOUTH LAHONTAN</b>					
<b>Owens River</b>					
Total tributary flow to Owens River (5)	235	579	96	<b>197</b>	84%
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(1) See inside back cover for definition

(2) All 50 year averages are based on years 1961-2010 unless otherwise noted

(3) Forecast by National Weather Service California-Nevada River Forecast Center. 30 yr average (1971-2000)

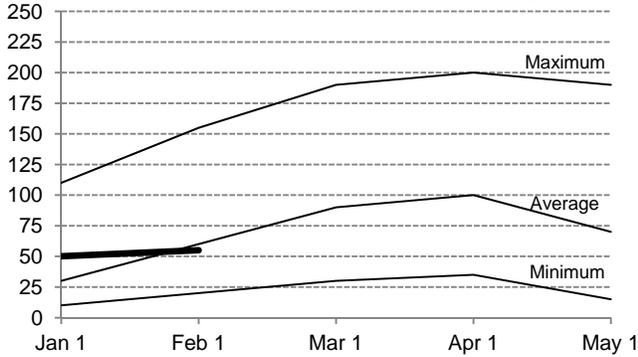
(4) Forecast by U.S. Natural Resources Conservation Service and National Weather Service California-Nevada River Forecast Center, April through September forecast, 30 year average based on years 1971-2000.

(5) Forecast by Department of Water and Power, City of Los Angeles, average based on years 1961-2010

## NORTH COAST REGION

### Snowpack Accumulation

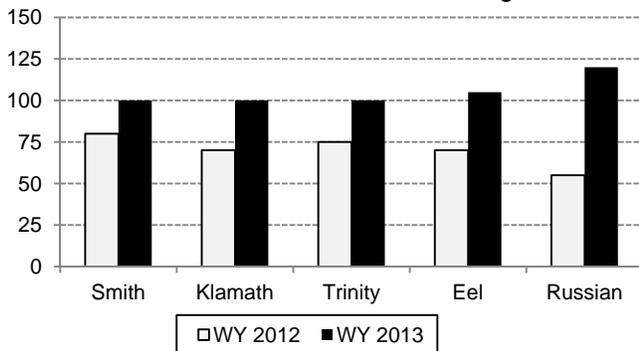
Water Content in % of April 1 Average



**SNOWPACK** - First of the month measurements made at 10 snow courses indicate an area wide snow water equivalent of 18.4 inches. This is 90 percent of the February 1 average and 55 percent of the seasonal (April 1) average. Last year at this time the pack was holding 8.8 inches of water.

### Precipitation

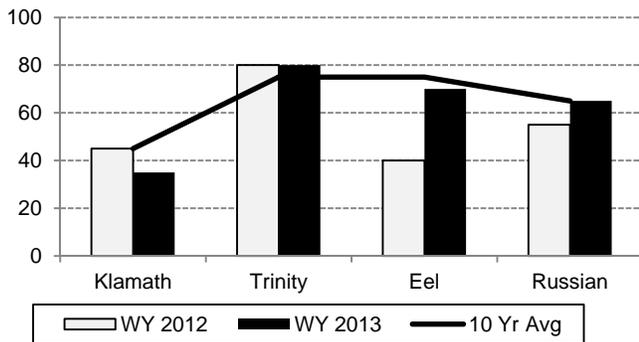
October 1 to Date in % of Average



**PRECIPITATION** - Seasonal precipitation (October 1 through the end of last month) on this area was 105 percent of normal. Precipitation last month was about 30 percent of the monthly average. Seasonal precipitation at this time last year stood at 70 percent of normal.

### Reservoir Storage

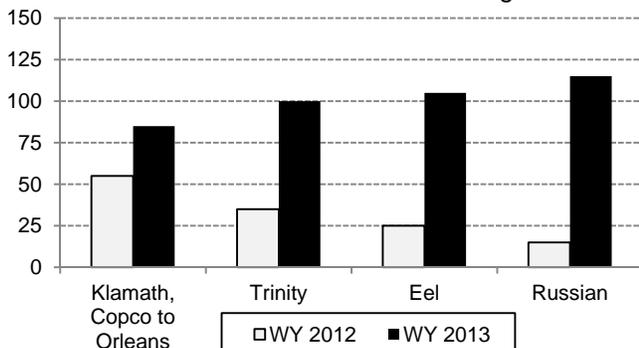
Contents of major reservoirs in % of capacity



**RESERVOIR STORAGE** - First of the month storage in 6 reservoirs was 2.4 million acre-feet which is 110 percent of average. About 75 percent of available capacity was being used. Storage in these reservoirs at this time last year was 110 percent of average.

### Runoff

October 1 to Date in % of Average

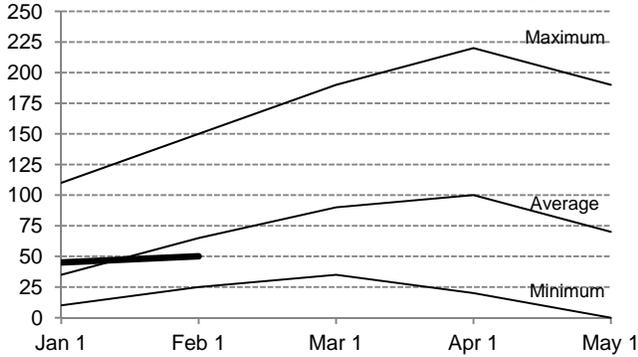


**RUNOFF** - Seasonal runoff of streams draining the area totaled 5.1 million acre-feet which is 100 percent of the average for this period. Last year, runoff for the same period was 35 percent of average.

## SACRAMENTO RIVER REGION

### Snowpack Accumulation

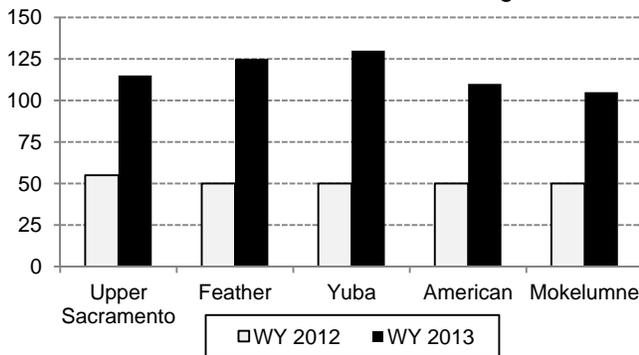
Water Content in % of April 1 Average



**SNOWPACK** - First of the month measurements made at 72 snow courses indicate an area wide snow water equivalent of 15.7 inches. This is 80 percent of the February 1 average and 50 percent of the seasonal (April 1) average. Last year at this time the pack was holding 5.5 inches of water.

### Precipitation

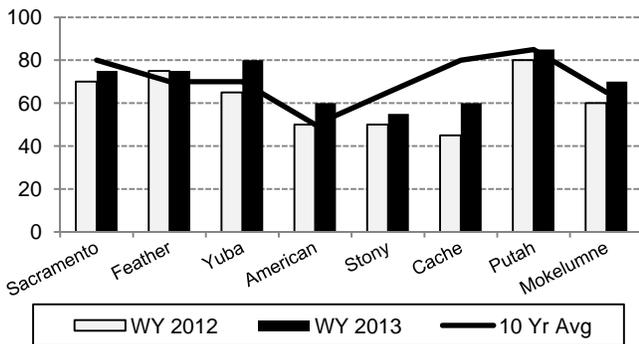
October 1 to Date in % of Average



**PRECIPITATION** - Seasonal precipitation (October 1 through the end of last month) on this area was 120 percent of normal. Precipitation last month was about 15 percent of the monthly average. Seasonal precipitation at this time last year stood at 55 percent of normal.

### Reservoir Storage

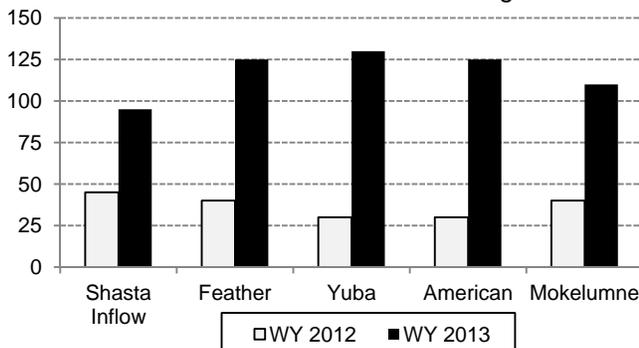
Contents of major reservoirs in % of capacity



**RESERVOIR STORAGE** - First of the month storage in 43 reservoirs was 12.0 million acre-feet which is 115 percent of average. About 75 percent of available capacity was being used. Storage in these reservoirs at this time last year was 105 percent of average.

### Runoff

October 1 to Date in % of Average

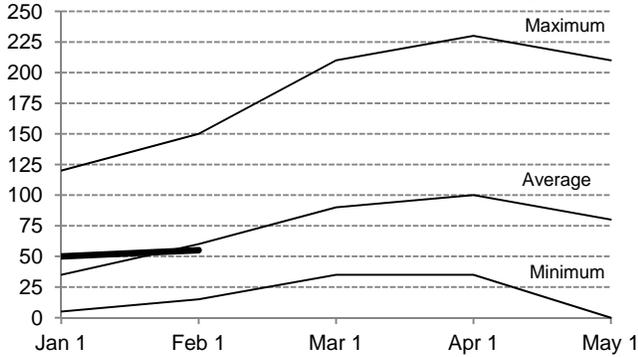


**RUNOFF** - Seasonal runoff of streams draining the area totaled 5.9 million acre-feet which is 105 percent of average for this period. Last year, runoff for the same period was 40 percent of average.

The **Sacramento Region 40-30-30 Water Supply Index** is forecast to be 7.5 assuming median meteorological conditions for the remainder of the year. This classifies the year as "below normal" in the Sacramento Valley according to the State Water Resources Control Board.

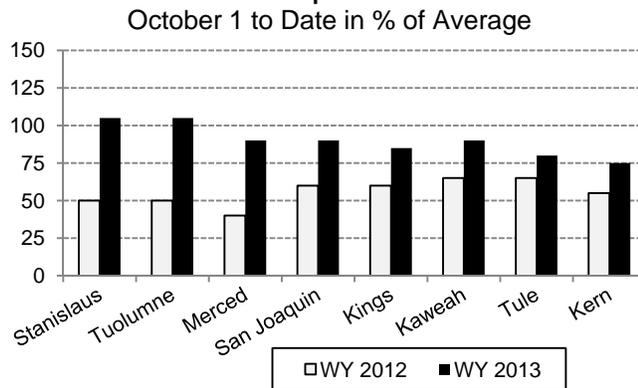
## SAN JOAQUIN RIVER AND TULARE LAKE REGIONS

### Snowpack Accumulation



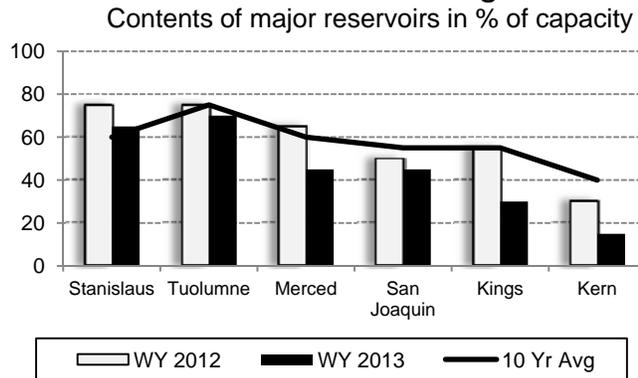
**SNOWPACK** - First of the month measurements made at 63 **San Joaquin River Region** snow courses indicate an area wide snow water equivalent of 19.3 inches. This is 95 percent of the February 1 average and 60 percent of seasonal average. Last year at this time the pack was holding 6.1 inches of water. At the same time 41 **Tulare Lake Region** snow courses indicated a basin-wide snow water equivalent of 13.1 inches which is 90 percent of the average for February 1 and 55 percent of the seasonal average. Last year at this time the basin was holding 6.7 inches of water.

### Precipitation



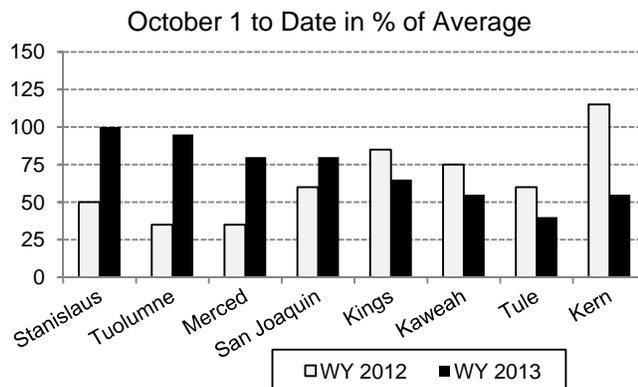
**PRECIPITATION** - Seasonal precipitation (October 1 through the end of last month) on the **San Joaquin Region** was 100 percent of normal. Precipitation last month was about 25 percent of the monthly average. Seasonal precipitation at this time last year stood at 50 percent of normal. Seasonal precipitation on the **Tulare Lake Region** was 80 percent of normal. Precipitation last month was about 35 percent of the monthly average. Seasonal precipitation at this time last year stood at 60 percent of normal.

### Reservoir Storage



**RESERVOIR STORAGE** - First of the month storage in 34 **San Joaquin Region** reservoirs was 7.0 million acre-feet which is 100 percent of average. About 60 percent of available capacity was being used. Storage in these reservoirs at this time last year was 120 percent of average. First of the month storage in 6 **Tulare Lake Region** reservoirs was 505 thousand acre-feet which is 65 percent of average and about 25 percent of available capacity. Storage in these reservoirs at this time last year was 120 percent of average.

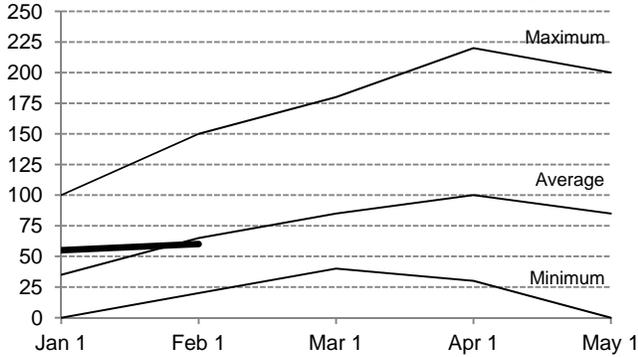
### Runoff



**RUNOFF** - Seasonal runoff of streams draining the **San Joaquin Region** totaled 1,037 thousand acre-feet which is 95 percent of average for this period. Last year, runoff for the same period was 45 percent of average. Seasonal runoff of streams draining the **Tulare Lake Basin** totaled 232 thousand acre-feet which is 55 percent of average for this period. Last year runoff for this same period was 85 percent of average. The **San Joaquin Region 60-20-20 Water Supply Index** is forecast to be 2.4 assuming 75 percent exceedance meteorological conditions. This classifies the year as "dry" in the San Joaquin Region according to the State Water Resources Control Board.

## NORTH AND SOUTH LAHONTAN REGIONS

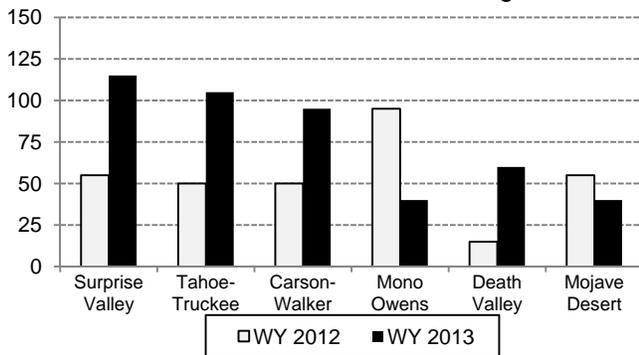
### Snowpack Accumulation Water Content in % of April 1 Average



**SNOWPACK** - First of the month measurements made at 10 **North Lahontan Region** snow courses indicate an area wide snow water equivalent of 14.7 inches. This is 95 percent of the February 1 average and 60 percent of seasonal (April 1) average. Last year at this time the pack was holding 4.8 inches of water. At the same time 17 **South Lahontan Region** snow courses indicated a basin-wide snow water equivalent of 13.9 inches which is 95 percent of the average for February 1 and 60 percent of the seasonal average. Last year at this time the basin was holding 5.8 inches of water.

### Precipitation

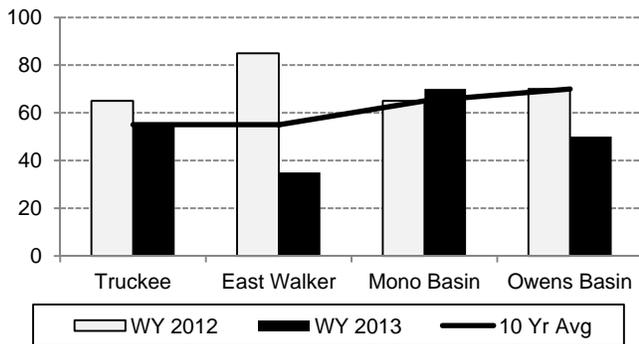
October 1 to Date in % of Average



**PRECIPITATION** - Seasonal precipitation (October 1 through the end of last month) on the **North Lahontan Region** was 105 percent of normal. Precipitation last month was about 20 percent of the monthly average. Seasonal precipitation at this time last year stood at 50 percent of normal. Seasonal precipitation on the **South Lahontan Region** was 50 percent of normal. Precipitation last month was about 40 percent of the monthly average. Seasonal precipitation at this time last year stood at 55 percent of normal.

### Reservoir Storage

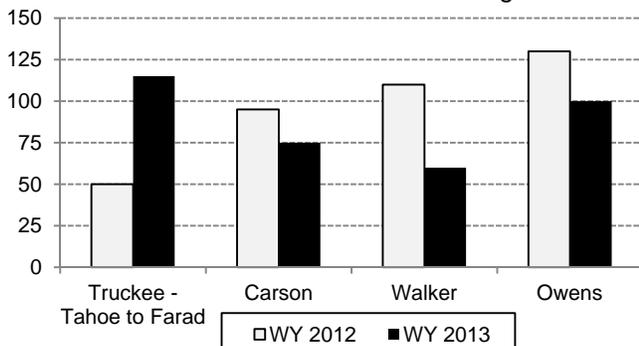
Contents of major reservoirs in % of capacity



**RESERVOIR STORAGE** - First of the month storage in 5 **North Lahontan** reservoirs was 580 thousand acre-feet which is 115 percent of average. About 55 percent of available capacity was being used. Storage in these reservoirs at this time last year was 145 percent of average. Lake Tahoe was 3.0 feet above its natural rim on February 1. First of the month storage in 8 **South Lahontan** reservoirs was 241 thousand acre-feet which is 90 percent of average and about 60 percent of available capacity. Storage in these reservoirs at this time last year was 115 percent of average.

### Runoff

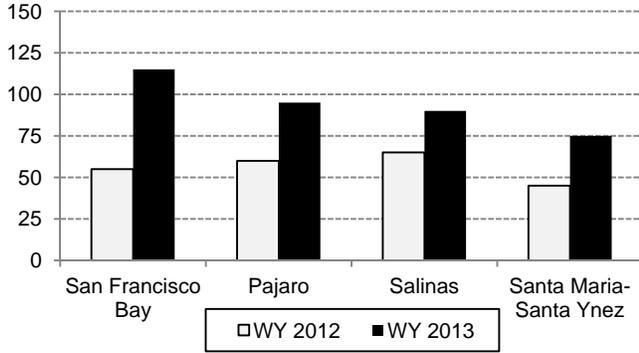
October 1 to Date in % of Average



**RUNOFF** - Seasonal runoff of streams draining the **North Lahontan Region** totaled 134 thousand acre-feet which is 90 percent of average for this period. Last year, runoff for the same period was 80 percent of average. Seasonal runoff of the Owens River in the **South Lahontan Region** totaled 42 thousand acre-feet which is 100 percent of average for this period. Last year runoff for this same period was 130 percent of average.

## SAN FRANCISCO BAY AND CENTRAL COAST REGIONS

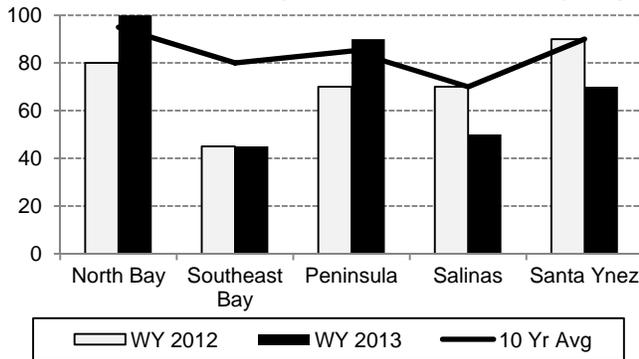
**Precipitation**  
October 1 to Date in % of Average



**PRECIPITATION** - Seasonal precipitation (October 1 through the end of last month) on the **San Francisco Bay Region** was 120 percent of normal. Precipitation last month was about 15 percent of the monthly average. Seasonal precipitation at this time last year stood at 55 percent of normal. Seasonal precipitation on the **Central Coast Region** was 85 percent of normal. Precipitation last month was about 30 percent of the monthly average. Seasonal precipitation at this time last year stood at 55 percent of normal.

**Reservoir Storage**

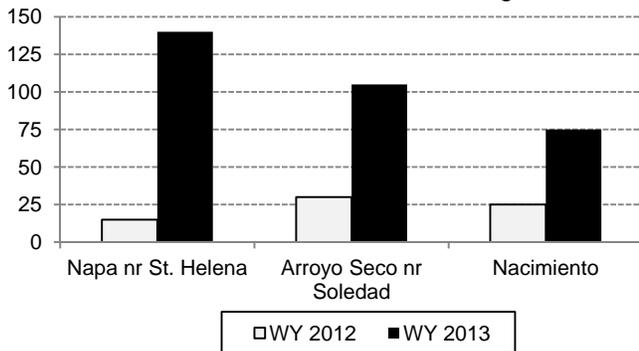
Contents of major reservoirs in % of capacity



**RESERVOIR STORAGE** - First of the month storage in 17 **San Francisco Bay Region** reservoirs was 466 thousand acre-feet which is 100 percent of average. About 70 percent of available capacity was being used. Storage in these reservoirs at this time last year was 90 percent of average. First of the month storage in 6 **Central Coast Region** reservoirs was 545 thousand acre-feet which is 90 percent of average and about 55 percent of available capacity. Storage in these reservoirs at this time last year was 120 percent of average.

**Runoff**

October 1 to Date in % of Average



**RUNOFF** - Seasonal runoff of the Napa River in the **San Francisco Bay Region** totaled 48 thousand acre-feet which is 140 percent of average for this period. Last year, runoff for the same period was 15 percent of average. Seasonal runoff of streams draining the **Central Coast Region** totaled 107 thousand acre-feet which is 85 percent of average for this period. Last year runoff for this same period was 25 percent of average.

## **SOUTH COAST REGION**

**PRECIPITATION** - October through January (seasonal) precipitation on the region was 65 percent of normal. January precipitation was 45 percent of the monthly average. Seasonal precipitation at this time last year was 65 percent of normal.

**RESERVOIR STORAGE** - February 1 storage in 28 major South Coast Region reservoirs was 1.2 million acre-feet or 90 percent of average. About 60 percent of available capacity was being used. Storage in these reservoirs at this time last year was 100 percent of average.

**RUNOFF** - Seasonal runoff from selected South Coast Region streams is 5 thousand acre feet which is 30 percent of average.

## **COLORADO RIVER REGION**

**SNOWPACK** - The February 1 snowpack in the Upper Colorado River basin above Lake Powell was 75 percent of average. The snowpack ranges from 65 percent in the Upper Colorado in Colorado to 85 percent in the Green and San Juan rivers.

**PRECIPITATION** - Seasonal precipitation on the Colorado River-Desert Region was 100 percent of normal. Precipitation in January was 130 percent of average. Last year seasonal precipitation stood at 45 percent of normal.

**RESERVOIR STORAGE** - On February 1 combined storage in Lakes Powell, Mead, Mohave and Havasu was about 28.2 million acre-feet or about 70 percent of average. About 55 percent of available capacity was in use. Last year at this time, these reservoirs were storing 85 percent of average.

**RUNOFF** - The April-July inflow to Lake Powell is forecast to be 3.85 million acre-feet, which is 54 percent of average.

**MAJOR WATER DISTRIBUTION PROJECTS  
RESERVOIR STORAGE**

(AVERAGES BASED ON 1961-2010 OR PERIOD RECORD)

RESERVOIR	CAPACITY 1,000 AF	AVERAGE	STORAGE AT END OF January			
		STORAGE 1,000 AF	2012 1,000 AF	2013 1,000 AF	PERCENT AVERAGE	PERCENT CAPACITY
<b>STATE WATER PROJECT</b>						
Lake Oroville	3,538	2,317	2,545	2,692	116%	76%
San Luis Reservoir (SWP)	1,062	858	997	486	57%	46%
LakeDel Valle	77	31	29	36	114%	47%
Lake Silverwood	73	66	72	72	109%	98%
Pyramid Lake	171	163	167	166	102%	97%
Castaic Lake	325	270	284	287	106%	88%
Perris Lake	132	107	69	63	59%	48%
<b>CENTRAL VALLEY PROJECT</b>						
Trinity Lake	2,448	1,730	1,956	1,943	112%	79%
Lake Shasta	4,552	3,072	3,107	3,474	113%	76%
Whiskeytown Lake	241	205	205	206	100%	85%
Folsom Lake	977	508	413	566	112%	58%
New Melones Reservoir	2,420	1,423	1,972	1,636	115%	68%
Millerton Lake	521	333	317	313	94%	60%
San Luis Reservoir (CVP)	971	743	942	726	98%	75%
<b>COLORADO RIVER PROJECT</b>						
Lake Mead	26,159	19,607	15,022	13,828	71%	53%
Lake Powell	24,322	17,588	15,641	12,177	69%	50%
Lake Mohave	1,810	1,677	1,628	1,650	98%	91%
Lake Havasu	619	550	554	580	106%	94%
<b>EAST BAY MUNICIPAL UTILITY DISTRICT</b>						
Pardee Res	198	178	177	174	97%	88%
Camanche Reservoir	417	248	250	315	127%	75%
East Bay (4 res.)	147	125	123	123	99%	84%
<b>CITY AND COUNTY OF SAN FRANCISCO</b>						
Hetch-Hetchy Reservoir	360	172	285	249	144%	69%
Cherry Lake	268	144	253	244	170%	91%
Lake Eleanor	26	10	10	24	241%	92%
South Bay/Peninsula (4 res.)	225	159	120	137	86%	61%
<b>CITY OF LOS ANGELES (D.W.P.)</b>						
Lake Crowley	183	123	136	95	77%	52%
Grant Lake	48	28	40	34	121%	71%
Other Aqueduct Storage (6 res.)	83	75	57	47	63%	57%

# TELEMETERED SNOW WATER EQUIVALENTS

February 1, 2013

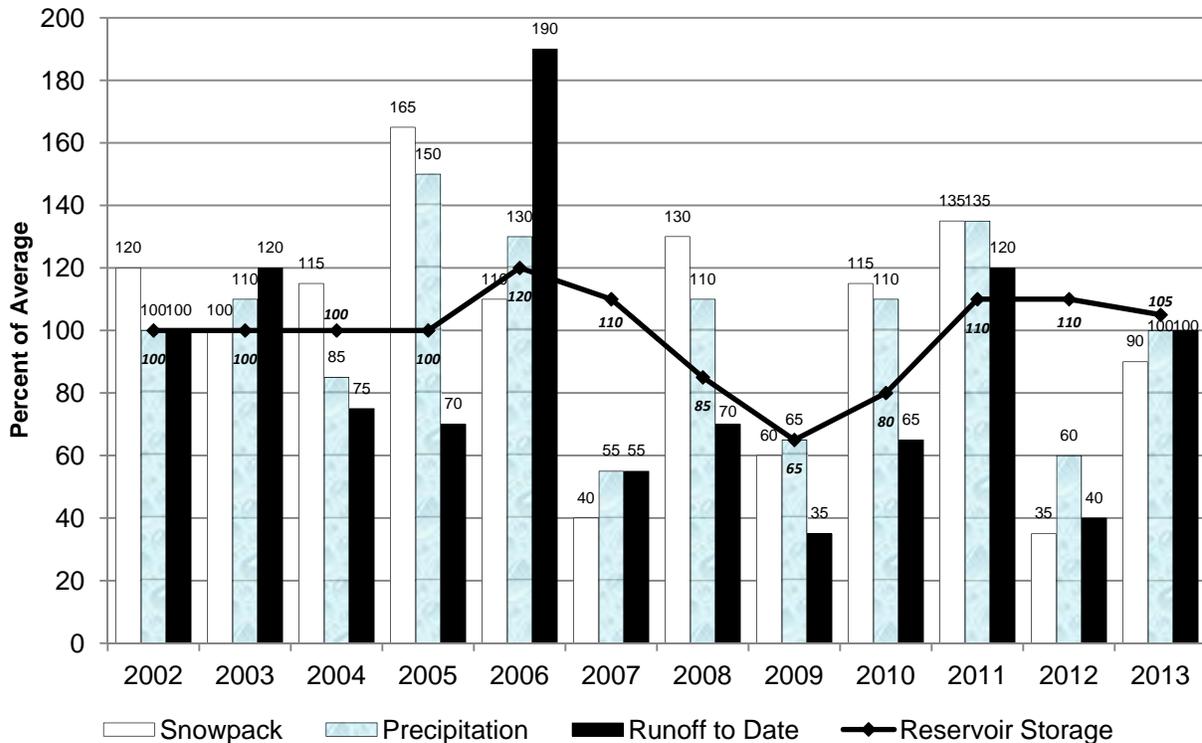
(AVERAGES BASED ON PERIOD RECORD)

BASIN NAME STATION NAME	ELEV	APRIL 1 AVERAGE	INCHES OF WATER EQUIVALENT			
			Feb 1 OF AVERAGE	PERCENT OF AVERAGE	24 HRS PREVIOUS	1 WEEK PREVIOUS
<b>TRINITY RIVER</b>						
Peterson Flat	7150'	29.2	20.3	69.5	20.4	19.4
Red Rock Mountain	6700'	39.6	29.3	73.9	29.3	28.6
Bonanza King	6450'	40.5	15.8	39.1	15.8	15.7
Shimmy Lake	6400'	40.3	—	—	—	—
Middle Boulder 3	6200'	28.3	15.8	55.7	16.0	16.4
Highland Lakes	6030'	29.9	13.7	45.8	13.8	13.8
Scott Mountain	5900'	16.0	13.0	81.0	13.0	12.8
Mumbo Basin	5650'	22.4	11.6	52.0	11.6	11.6
Crowder Flat	5100'	—	3.8	—	3.9	3.8
Big Flat	5100'	15.8	10.6	66.8	10.6	10.1
<b>SACRAMENTO RIVER</b>						
Cedar Pass	7100'	18.1	—	—	—	—
Blacks Mountain	7050'	12.7	9.2	72.8	9.0	7.6
Sand Flat	6750'	42.4	20.6	48.7	20.6	20.6
Medicine Lake	6700'	32.6	23.4	71.8	23.3	23.2
Adin Mountain	6200'	13.6	7.4	54.4	7.4	6.7
Snow Mountain	5950'	27.0	17.2	63.6	17.2	17.3
Slate Creek	5700'	29.0	12.0	41.4	12.0	12.1
Stouts Creek	5400'	36.0	14.1	39.1	14.1	13.7
<b>FEATHER RIVER</b>						
Lower Lassen Peak	8250'	—	—	—	—	—
Kettle Rock	7300'	25.5	15.6	61.2	15.6	15.6
Grizzly Ridge	6900'	29.7	14.6	49.3	14.6	14.5
Pilot Peak	6800'	52.6	—	—	—	—
Gold Lake	6750'	36.5	23.2	63.5	23.2	22.3
Humbug	6500'	28.0	16.7	59.6	16.7	17.5
Harkness Flat	6200'	28.5	11.6	40.8	11.7	11.8
Rattlesnake	6100'	14.0	11.8	84.0	11.8	11.6
Bucks Lake	5750'	44.7	19.7	44.0	19.4	18.0
Four Trees	5150'	20.0	21.4	106.8	21.4	21.1
<b>EEL RIVER</b>						
Noel Spring	5100'	—	5.8	—	5.8	6.6
<b>YUBA &amp; AMERICAN RIVERS</b>						
Schneiders	8750'	34.5	30.2	87.4	30.1	30.4
Lake Lois	8600'	39.5	26.3	66.6	26.1	23.0
Carson Pass	8353'	—	23.2	—	23.3	22.9
Caples Lake	8000'	30.9	21.8	70.7	21.8	20.0
Alpha	7600'	35.9	13.5	37.5	13.5	14.0
Forni Ridge	7600'	37.0	17.2	46.6	17.2	17.4
Meadow Lake	7200'	55.5	33.5	60.4	33.3	31.1
Silver Lake	7100'	22.7	12.7	56.0	12.6	12.5
Central Sierra Snow Lab	6900'	33.6	18.5	55.1	18.6	18.8
Van Vleck	6700'	35.9	17.9	49.9	17.9	17.5
Huysink	6600'	42.6	—	—	—	—
Robinson Cow Camp	6480'	—	18.1	—	18.0	—
Robbs Saddle	5900'	21.4	8.9	41.6	8.9	9.1
Greek Store	5600'	21.0	12.6	60.0	12.7	12.5
Blue Canyon	5280'	9.0	7.0	77.3	6.9	7.2
Robbs Powerhouse	5150'	5.2	7.0	135.4	7.1	7.3
<b>MOKELUMNE &amp; STANISLAUS RIVERS</b>						
Deadman Creek	9250'	37.2	21.0	56.5	21.1	20.9
Highland Meadow	8700'	47.9	32.0	66.8	32.0	31.4
Gianelli Meadow	8400'	55.5	30.1	54.3	30.4	30.5
Lower Relief Valley	8100'	41.2	25.2	61.1	25.2	23.6
Blue Lakes	8000'	33.1	16.9	51.1	16.9	17.5
Mud Lake	7900'	44.9	—	—	—	—
Stanislaus Meadow	7750'	47.5	25.3	53.3	25.3	24.5
Bloods Creek	7200'	35.5	11.2	31.4	11.3	10.8
Black Springs	6500'	32.0	8.5	26.5	8.4	8.5
<b>TUOLUMNE &amp; MERCED RIVERS</b>						
Dana Meadows	9800'	27.7	16.1	58.1	16.1	16.0
Slide Canyon	9200'	41.1	—	—	—	—
Tuolumne Meadows	8600'	22.6	—	—	—	—
Horse Meadow	8400'	48.6	37.6	77.3	37.4	38.1
Ostrander Lake	8200'	34.8	—	—	—	—
Lake Tenaya	8150'	33.1	19.6	59.1	19.4	19.3
White Wolf	7900'	—	19.6	—	19.4	19.4
Paradise Meadow	7650'	41.3	28.3	68.6	28.3	26.7
Gin Flat	7050'	34.2	10.2	29.8	10.3	10.3
Lower Kibbie Ridge	6700'	27.4	9.3	34.0	9.4	10.1

<b>SAN JOAQUIN RIVER</b>						
Volcanic Knob	10050'	30.1	14.4	48.0	14.5	14.4
Agnew Pass	9450'	32.3	18.0	55.8	18.1	17.7
Kaiser Point	9200'	37.8	23.3	61.6	23.2	22.2
Green Mountain	7900'	30.8	17.4	56.5	17.5	16.0
Devil's Postpile	7569'	—	—	—	—	—
Tamarack Summit	7550'	30.5	11.0	36.1	10.9	10.9
Chilkoot Meadow	7150'	38.0	17.4	45.8	17.4	17.3
Huntington Lake	7000'	20.1	7.7	38.2	7.7	7.8
Graveyard Meadow	6900'	18.8	9.2	49.1	9.4	9.6
Poison Ridge	6900'	28.9	8.3	28.7	8.3	8.4
<b>KINGS RIVER</b>						
Bishop Pass	11200'	34.0	15.9	46.6	15.9	15.9
Charlotte Lake	10400'	27.5	16.5	60.0	16.7	16.4
Blackcap Basin	10300'	34.3	—	—	—	—
State Lakes	10300'	29.0	18.4	63.4	18.3	17.2
Mitchell Meadow	9900'	32.9	18.1	55.0	18.1	17.3
Upper Burnt Corral	9700'	34.6	20.4	58.9	20.3	20.1
West Woodchuck Meadow	9100'	32.8	19.4	59.1	19.4	18.6
Big Meadows	7600'	25.9	—	—	—	—
<b>KAWEAH &amp; TULE RIVERS</b>						
Farewell Gap	9500'	34.5	—	—	—	18.0
Quaking Aspen	7200'	21.0	8.5	40.4	8.5	8.8
Giant Forest	6650'	10.0	5.5	55.0	5.5	5.8
<b>KERN RIVER</b>						
Upper Tyndall Creek	11400'	27.7	12.0	43.4	11.9	11.2
Crabtree Meadow	10700'	19.8	9.8	49.5	—	—
Chagoopa Plateau	10300'	21.8	11.7	53.8	11.7	11.6
Pascoes	9150'	24.9	12.6	50.6	12.6	11.9
Wet Meadows	8950'	30.3	16.7	55.1	16.7	16.4
Tunnel Guard Station	8900'	15.6	5.1	32.6	5.1	4.0
Casa Vieja Meadows	8300'	20.9	9.1	43.7	9.2	8.8
Beach Meadows	7650'	11.0	4.3	39.3	4.3	4.0
<b>SURPRISE VALLEY AREA</b>						
Dismal Swamp	7050'	29.2	17.4	59.6	17.5	14.7
<b>TRUCKEE RIVER</b>						
Big Meadows	8700'	25.7	17.0	66.1	17.0	16.5
Independence Lake	8450'	41.4	34.2	82.6	34.2	33.0
Squaw Valley	8200'	46.5	31.5	67.7	31.5	31.3
Independence Camp	7000'	21.8	7.2	33.0	7.3	7.0
Independence Creek	6500'	12.7	5.5	43.3	5.6	5.3
Truckee 2	6400'	14.3	10.9	76.2	11.1	11.0
<b>LAKE TAHOE BASIN</b>						
Mount Rose Ski Area	8900'	38.5	29.6	76.9	29.6	29.3
Heavenly Valley	8800'	28.1	15.7	55.9	15.6	14.9
Marlette Lake	8000'	21.1	13.3	63.0	13.2	12.4
Hagans Meadow	8000'	16.5	10.3	62.4	10.3	9.5
Echo Peak 5	7800'	39.5	28.5	72.2	28.4	29.2
Rubicon Peak 2	7500'	29.1	12.5	43.0	12.4	12.5
Ward Creek 3	6750'	39.4	16.8	42.6	16.8	17.7
Tahoe City Cross	6750'	16.0	6.1	38.1	6.1	6.3
Fallen Leaf Lake	6250'	7.0	6.0	85.7	6.0	5.7
<b>CARSON RIVER</b>						
Ebbetts Pass	8700'	38.8	22.6	58.2	22.7	21.7
Horse Meadow	8557'	—	12.6	—	12.7	12.3
Monitor Pass	8350'	—	10.8	—	10.8	10.8
Burnside Lake	8129'	—	17.7	—	17.8	17.7
Forestdale Creek	8017'	—	22.2	—	22.2	23.2
Poison Flat	7900'	16.2	—	—	—	—
Spratt Creek	6150'	4.5	4.4	97.8	4.5	4.0
<b>WALKER RIVER</b>						
Leavitt Lake	9600'	—	40.2	—	40.0	39.5
Summit Meadow	9313'	—	12.3	—	12.3	12.2
Virginia Lakes	9300'	20.3	10.5	51.7	10.5	10.4
Lobdell Lake	9200'	17.3	10.2	59.0	10.2	9.7
Sonora Pass Bridge	8750'	26.0	17.3	66.5	17.4	17.2
Leavitt Meadows	7200'	8.0	6.4	80.0	6.5	6.1
<b>OWENS RIVER/MONO LAKE</b>						
Gem Pass	10750'	31.7	16.5	52.0	16.5	16.6
Sawmill	10200'	19.4	7.1	36.7	7.2	6.9
Cottonwood Lakes	10150'	11.6	5.0	43.1	5.1	5.6
Big Pine Creek	9800'	17.9	8.3	46.1	8.3	8.2
Rock Creek Lakes	9700'	14.0	—	—	—	—
South Lake	9600'	16.0	8.2	51.0	8.2	8.3
Mammoth Pass	9300'	42.4	—	—	—	—

NORMAL SNOWPACK ACCUMULATION EXPRESSED AS A PERCENT OF APRIL 1ST AVERAGE						
AREA	JANUARY	FEBRUARY	MARCH	APRIL	MAY	
Central Valley North	45%	70%	90%	100%	75%	
Central Valley South	45%	65%	85%	100%	80%	
North Coast	40%	60%	85%	100%	80%	

**DEPARTMENT OF WATER RESOURCES  
CALIFORNIA COOPERATIVE SNOW SURVEYS  
February 1 Statewide Conditions**



**SNOWLINES**

**The 81st Western Snow Conference (WSC)** annual meeting will be held in Jackson Hole, Wyoming, April 15-18, 2013. The theme for this year's conference is "Wild Weather in the Wild West". On Monday, April 15<sup>th</sup>, the topic will be "New Strategies and Techniques in Long Range Streamflow Forecasting". Tuesday and Wednesday will include topics such as climate variability, water management, water supply forecasting, and modeling. Thursday activities will include a tour of natural resource management facilities in the Jackson Hole area. Don't miss out on an opportunity to attend this meeting of the premier organization devoted to the study of snow and runoff. Further information is at <http://www.westernsnowconference.org/> or contact Frank Gehrke 916-574-2635.

**Depicted** on this month's cover: Brandon Hunsbarger of Sierra Hydrographics is putting the final touches on the Farewell Gap snow sensor following its installation after an avalanche. The photo was taken by Alan Wilson of the Kaweah Delta Water Conservation District.