

## Summary of Water Conditions

February 1, 2019

Compared to February 1<sup>st</sup> in recent years, this year is unusual in that water conditions are near normal, not only for the State as a whole, but even in most of the regions. Winter storms were a bit slow to arrive, but by the end of January rain and snow totals were near normal. Snowpack too followed the same trend.

**Forecast** of median April through July runoff are for about 90 percent of average runoff compared to last year's 55 percent on this date and an eventual 75 percent at the end of the snowmelt season. Water year runoff is projected to be about 85 percent of average; in 2018 total runoff was estimated be about 68 percent of average.

**Snowpack** water content is 110 percent of average for this date compared to 25 percent a year ago. The pack is about 70 percent of the April 1 average, normally the date of maximum accumulation. Regional amounts on February 1 ranged from about 100 percent on the north coast to about 115 percent in the southern Sierra region.

**Precipitation** from October through January was about 95 percent of average statewide compared to only 60 percent last year. Percentages were lowest in the North Coast region and highest in Southern California.

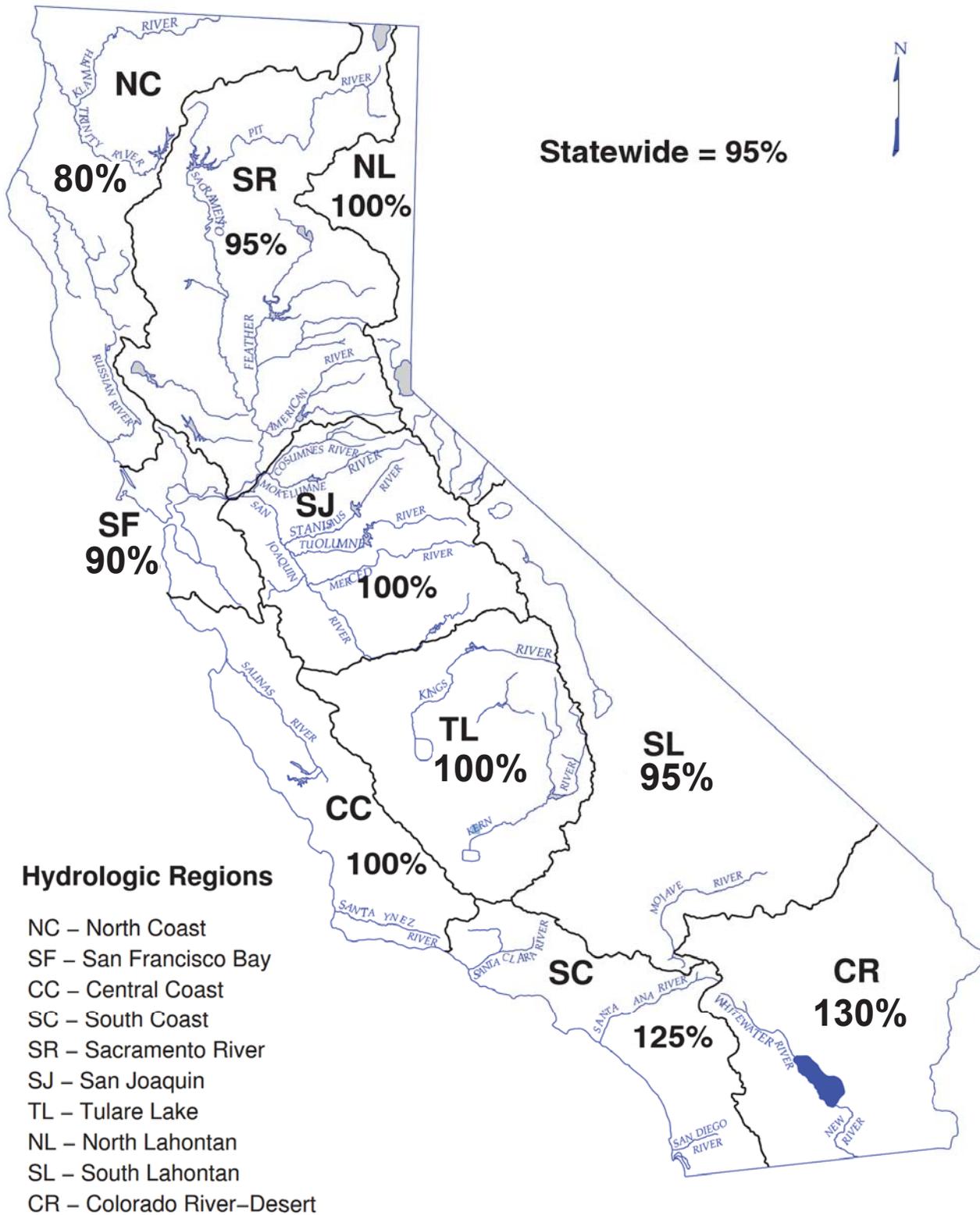
**Runoff** to date has been about 70 percent of average statewide compared to 55 percent last year on this date. Estimated January runoff was about 95 percent. Estimated runoff of the eight major rivers of the Sacramento-San Joaquin region in January was about 2.86 million acre-feet.

**Reservoir storage** is about 100 percent of average, compared to 105 percent last year. Lake Oroville, at about 1.4 million acre-feet, is still only at about 60 percent of its average for this time of year.

### SUMMARY OF WATER CONDITIONS IN PERCENT OF AVERAGE

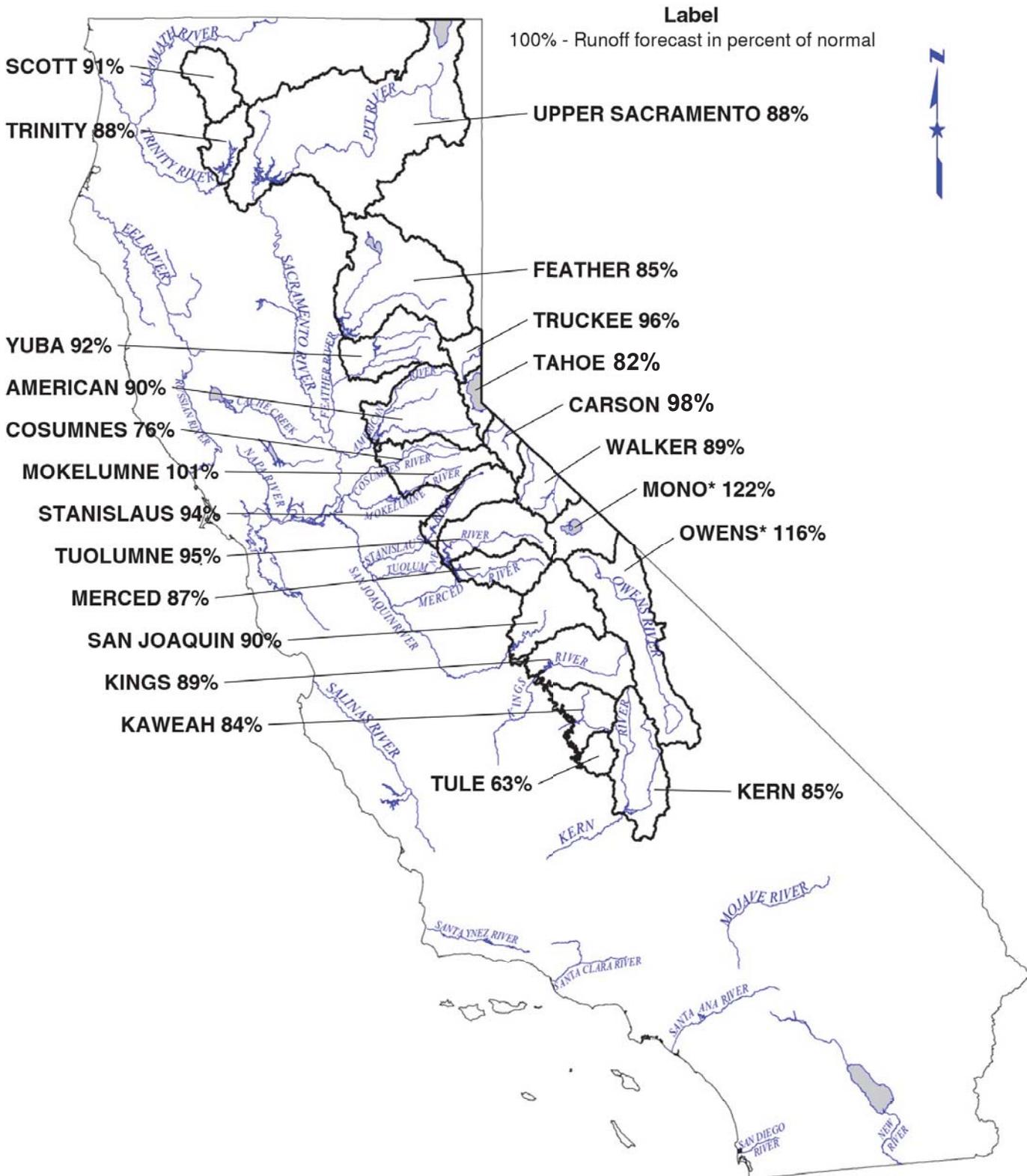
HYDROLOGIC REGION	PRECIPITATION OCTOBER 1 TO DATE	FEBRUARY 1 SNOW WATER CONTENT	FEBRUARY 1 RESERVOIR STORAGE	RUNOFF OCTOBER 1 TO DATE	APRIL-JULY RUNOFF FORECAST	WATER YEAR RUNOFF FORECAST
NORTH COAST	80	100	95	60	90	80
SAN FRANCISCO BAY	90	--	95	65	--	--
CENTRAL COAST	100	--	50	110	--	--
SOUTH COAST	125	--	90	65	--	--
SACRAMENTO RIVER	95	110	95	75	85	85
SAN JOAQUIN RIVER	100	110	115	65	90	90
TULARE LAKE	100	115	75	60	85	85
NORTH LAHONTAN	100	105	145	60	95	85
SOUTH LAHONTAN	95	115	105	85	115	105
COLORADO RIVER	130	--	--	--	--	--
<b>STATEWIDE</b>	95	110	100	70	90	85

**DEPARTMENT OF WATER RESOURCES  
CALIFORNIA COOPERATIVE SNOW SURVEYS  
SEASONAL PRECIPITATION  
IN PERCENT OF AVERAGE TO DATE  
October 1, 2018 through January 31, 2019**



WATER YEAR IS OCTOBER 1 THROUGH SEPTEMBER 30

# DEPARTMENT OF WATER RESOURCES CALIFORNIA COOPERATIVE SNOW SURVEYS FORECAST OF APRIL-JULY UNIMPAIRED SNOWMELT RUNOFF February 1, 2019



\* FORECAST BY DEPARTMENT OF WATER AND POWER, CITY OF LOS ANGELES

**February 1, 2019 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 (10)	Min of Record (10)	Apr-Jul Forecast	Pct of Avg	80% Probability Range (1)
<b>North Coast</b>						
Trinity River at Lewiston Lake	639	1,593	80	<b>560</b>	88%	380 - 680
<b>SACRAMENTO RIVER</b>						
<b>Upper Sacramento River</b>						
Sacramento River at Delta above Shasta Lake	295	751	39	210	71%	
McCloud River above Shasta Lake	385	850	185	320	83%	
Pit River near Montgomery Creek + Squaw Creek	1,020	2,098	480	970	95%	
Total Inflow to Shasta Lake	1,756	3,525	711	<b>1,550</b>	88%	1,250 - 1,810
<b>Sacramento River above Bend Bridge, near Red Bluff</b>	2,421	5,117	943	<b>2,080</b>	86%	1,620 - 2,530
<b>Feather River</b>						
Feather River at Lake Almanor near Prattville (3)	333	675	120	280	84%	
North Fork at Pulga (3)	1,028	2,416	243	880	86%	
Middle Fork near Clio (4)	86	518	4	72	84%	
South Fork at Ponderosa Dam (3)	110	267	13	90	82%	
Feather River at Oroville	1,704	4,676	378	<b>1,450</b>	85%	990 - 1,930
<b>Yuba River</b>						
North Yuba below Goodyears Bar	279	647	51	260	93%	
Inflow to Jackson Mdws and Bowman Reservoirs (3)	112	236	25	100	89%	
South Yuba at Langs Crossing (3)	233	481	57	210	90%	
Yuba River near Smartsville plus Deer Creek	968	2,424	151	<b>890</b>	92%	630 - 1,240
<b>American River</b>						
North Fork at North Fork Dam (3)	262	716	43	230	88%	
Middle Fork near Auburn (3)	522	1,406	100	470	90%	
Silver Creek below Camino Diversion Dam (3)	173	386	37	160	92%	
American River below Folsom Lake	1,199	3,074	185	<b>1,080</b>	90%	740 - 1,520
<b>SAN JOAQUIN RIVER</b>						
<b>Cosumnes River at Michigan Bar</b>	125	446	8	<b>95</b>	76%	65 - 155
<b>Mokelumne River</b>						
North Fork near West Point (5)	437	829	104	440	101%	
Total Inflow to Pardee Reservoir	457	1,076	75	<b>460</b>	101%	360 - 620
<b>Stanislaus River</b>						
Middle Fork below Beardsley Dam (3)	334	702	64	310	93%	
North Fork Inflow to McKays Point Dam (3)	224	503	34	210	94%	
Stanislaus River below Goodwin Reservoir (9)	682	1,710	116	<b>640</b>	94%	520 - 850
<b>Tuolumne River</b>						
Cherry Creek & Eleanor Creek near Hetch Hetchy	315	727	97	300	95%	
Tuolumne River near Hetch Hetchy	604	1,392	153	580	96%	
Tuolumne River below La Grange Reservoir (9)	1,193	2,682	301	<b>1,130</b>	95%	920 - 1,470
<b>Merced River</b>						
Merced River at Pohono Bridge	372	888	80	330	89%	
Merced River below Merced Falls (9)	623	1,588	104	<b>540</b>	87%	430 - 710
<b>San Joaquin River</b>						
San Joaquin River at Mammoth Pool (7)	1,026	2,279	235	920	90%	
Big Creek below Huntington Lake (8)	91	264	11	80	88%	
South Fork near Florence Lake (7)	201	511	58	180	90%	
San Joaquin River inflow to Millerton Lake	1,228	3,355	193	<b>1,100</b>	90%	850 - 1,390
<b>TULARE LAKE</b>						
<b>Kings River</b>						
North Fork Kings River near Cliff Camp (3)	239	565	50	210	88%	
Kings River below Pine Flat Reservoir	1,210	3,113	208	<b>1,080</b>	89%	790 - 1,370
<b>Kaweah River below Terminus Reservoir</b>	285	814	42	<b>240</b>	84%	180 - 320
<b>Tule River below Lake Success</b>	63	259	1	<b>40</b>	63%	24 - 66
<b>Kern River</b>						
Kern River near Kernville	384	1,203	83	330	86%	
Kern River inflow to Lake Isabella	458	1,657	57	<b>390</b>	85%	270 - 530

(1) See inside the back cover for definition.

(2) All 50 year averages are based on years 1966-2015 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, 2019 FORECASTS  
WATER YEAR UNIMPAIRED RUNOFF**

HISTORICAL			Water Year Unimpaired Runoff in 1,000 Acre-Feet (1)										FORECAST		
50 Yr Avg (2)	Max of Record (10)	Min of Record (10)	DISTRIBUTION										Water Year Forecast	Pct of Avg	80% Probability Range (1)
			Oct Thru Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep				
1,348	2,990	200	224	130	160	210	230	95	25	9	7	<b>1,090</b>	81%	810 - 1,280	
860	1,966	165													
1,183	2,353	557													
3,002	5,150	1,484													
5,831	10,796	2,479	1,492	690	760	585	460	280	225	205	198	<b>4,895</b>	84%	4,235 - 5,470	
8,544	17,180	3,294	2,405	1,170	1,210	775	615	395	295	255	250	<b>7,370</b>	86%	6,270 - 8,445	
780	1,269	366													
2,417	4,400	666													
219	637	24													
291	562	32													
4,407	10,178	995	904	470	500	600	500	225	125	93	78	<b>3,495</b>	79%	2,670 - 4,355	
564	1,056	102													
181	292	30													
379	565	98													
2,268	5,604	369	381	240	300	330	380	145	35	18	16	<b>1,845</b>	81%	1,415 - 2,425	
616	1,234	66													
1,070	2,575	144													
318	705	59													
2,626	7,391	349	425	350	370	410	450	180	40	11	9	<b>2,245</b>	85%	1,670 - 2,990	
379	1,253	20	63	65	60	50	32	10	3	1	1	<b>285</b>	75%	215 - 430	
626	1,009	197													
748	1,901	129	70	60	80	130	205	110	15	3	2	<b>675</b>	90%	540 - 890	
471	929	88													
-	-	-													
1,149	3,078	155	144	115	110	195	260	155	30	11	5	<b>1,025</b>	89%	860 - 1,315	
461	1,147	123													
770	1,661	258													
1,909	4,631	383	199	210	150	270	450	340	70	15	6	<b>1,710</b>	90%	1,405 - 2,165	
461	1,020	92													
992	2,787	150	95	140	75	135	235	140	30	7	3	<b>860</b>	87%	690 - 1,105	
1,337	2,964	308													
112	298	14													
248	653	71													
1,793	4,642	327	144	130	110	200	420	360	120	35	16	<b>1,535</b>	86%	1,200 - 1,905	
284	607	58													
1,702	4,287	359	130	120	100	200	420	350	110	30	20	<b>1,480</b>	87%	1,115 - 1,845	
451	1,402	89	33	40	40	60	90	70	20	5	2	<b>360</b>	80%	275 - 470	
147	615	10	17	15	20	15	15	7	3	2	1	<b>95</b>	65%	60 - 150	
558	1,577	163													
728	2,318	130	69	35	45	90	140	110	50	22	14	<b>575</b>	79%	415 - 760	

(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) For the tributaries, the period of record over which the minimum and maximum values are found does not include years after water year 2011.

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

**February 1, 2019 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 (6)	Min of Record (6)	Apr-Jul Forecast	Pct of Avg

**NORTH COAST**

<b>Scott River</b>					
Scott River nr Ft Jones (3)	173	398	22	<b>157</b>	91%
<b>Klamath River</b>					
Total inflow to Upper Klamath Lake (4)	475	1,150	149	<b>347</b>	73%

**NORTH LAHONTAN**

<b>Truckee River</b>					
Lake Tahoe to Farad accretions	250	713	48	<b>240</b>	96%
Lake Tahoe Rise (assuming gates closed, ft)	1.3	5.4	0.2	<b>1.1</b>	82%
<b>Carson River</b>					
West Fork Carson River at Woodfords	52	135	10	<b>50</b>	96%
East Fork Carson River near Gardnerville	182	480	43	<b>180</b>	99%
<b>Walker River</b>					
West Walker River below Little Walker, near Coleville	153	410	35	<b>140</b>	92%
East Walker River near Bridgeport	61	209	7	<b>50</b>	82%

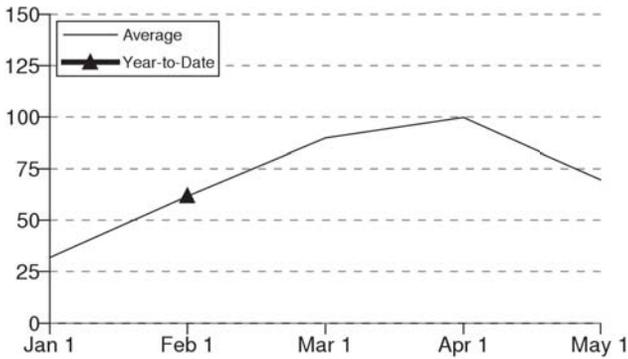
**SOUTH LAHONTAN**

<b>Owens River</b>					
Total tributary flow to Owens River (5)	231	579	84	<b>268</b>	116%

- (1) See inside the back cover for definition.
- (2) All 50 year averages are based on years 1966-2015 unless otherwise noted.
- (3) Forecast by National Weather Service California-Nevada River Forecast Center. 30 yr average (1981-2010).
- (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 1981-2010.
- (5) Forecast by Department of Water and Power, City of Los Angeles, average based on years 1961-2010.
- (6) For the tributaries, the period of record over which the minimum values are found does not include years after water year 2011.

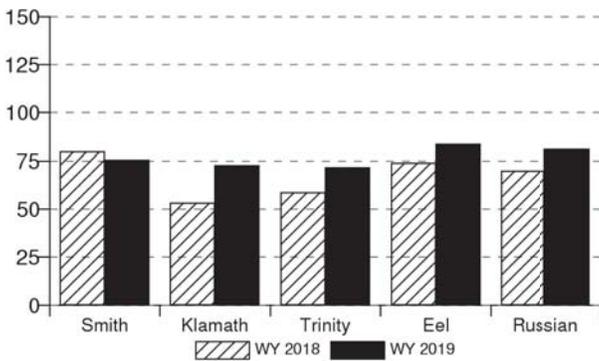
# NORTH COAST REGION

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



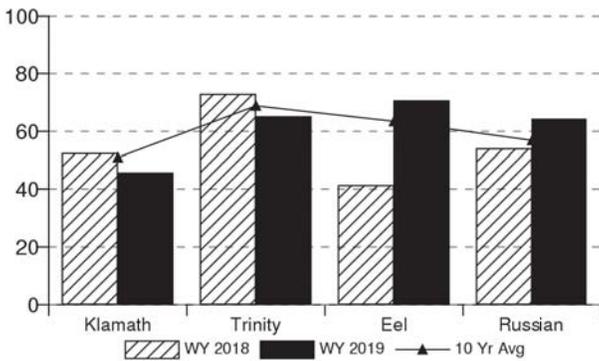
**SNOWPACK**- First of the month measurements made at 11 snow courses indicate an area wide snow water equivalent of 19.0 inches. This is 60 percent of the seasonal April 1 average and 100 percent of the February 1 average. Last year at this time the pack was holding 4.6 inches of water.

**Precipitation**  
October 1 to date in % of average



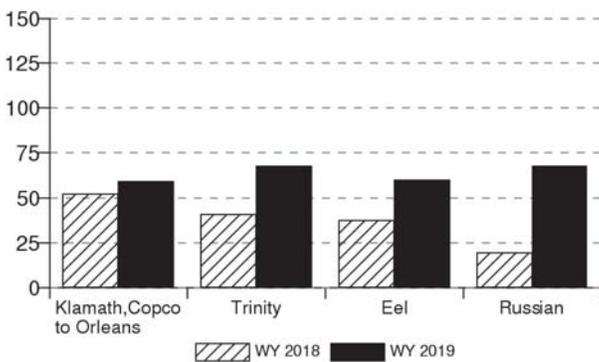
**PRECIPITATION**- Seasonal precipitation (October 1 through to the end of January) on this area was 80 percent of normal. Precipitation last month was about 105 percent of the monthly average. Seasonal precipitation at this time last year stood at 70 percent of normal.

**Reservoir Storage**  
Contents of major reservoirs in % of capacity



**RESERVOIR STORAGE** First of the month storage at 6 reservoirs was 1.99 million acre-feet which is 95 percent of average. About 65 percent of available capacity was being used. Storage in these reservoirs at this time last year was 100 percent of average.

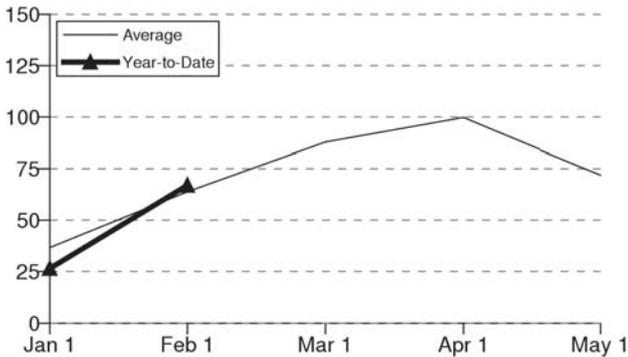
**Runoff**  
October 1 to date in % of average



**RUNOFF** Seasonal runoff of streams draining this area totaled 3.01 million acre-feet which is 60 percent of average. Last year, runoff for the same period was 40 percent of average.

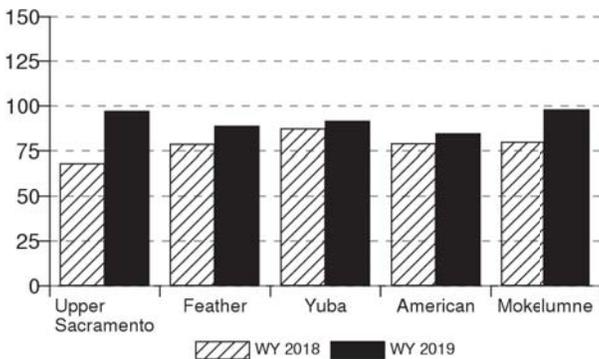
# SACRAMENTO RIVER REGION

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



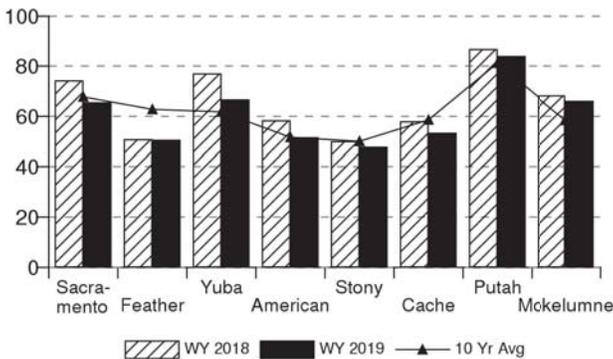
**SNOWPACK**- First of the month measurements made at 72 snow courses indicate an area wide snow water equivalent of 18.6 inches. This is 70 percent of the seasonal April 1 average and 110 percent of the February 1 average. Last year at this time the pack was holding 4.9 inches of water.

**Precipitation**  
October 1 to date in % of average



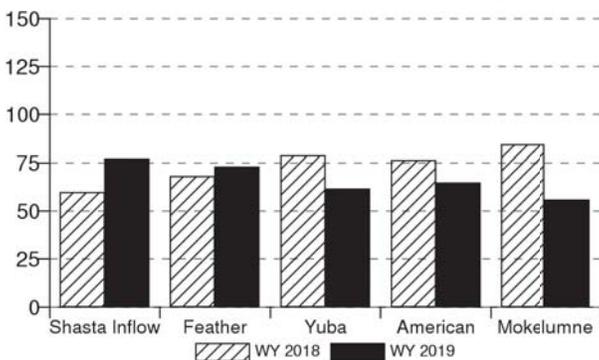
**PRECIPITATION**- Seasonal precipitation (October 1 through to the end of January) on this area was 95 percent of normal. Precipitation last month was about 130 percent of the monthly average. Seasonal precipitation at this time last year stood at 75 percent of normal.

**Reservoir Storage**  
Contents of major reservoirs in % of capacity



**RESERVOIR STORAGE** First of the month storage at 43 reservoirs was 9.69 million acre-feet which is 95 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**  
October 1 to date in % of average

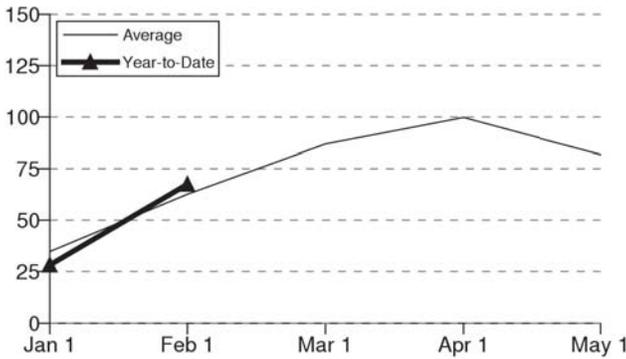


**RUNOFF** Seasonal runoff of streams draining this area totaled 4.11 million acre-feet which is 75 percent of average. Last year, runoff for the same period was 60 percent of average.

The **Sacramento Region 40-30-30 Water Supply Index** is forecast to be 6.9 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.

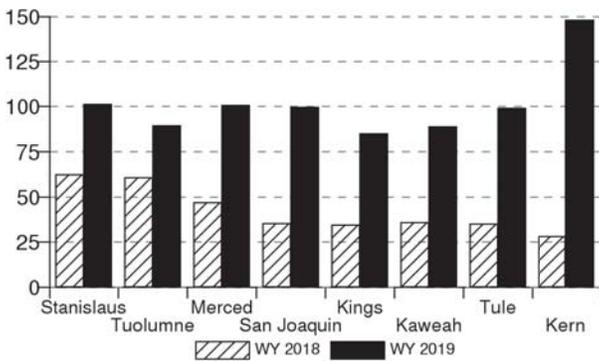
# SAN JOAQUIN RIVER AND TULARE LAKE REGIONS

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



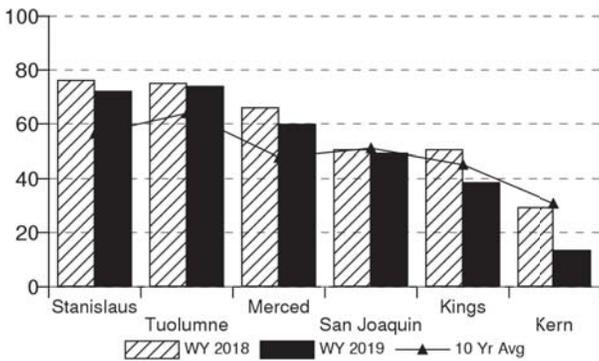
**SNOWPACK** - First of the month measurements made at 59 **San Joaquin Region** snow courses indicate an area wide snow water equivalent of 20.4 inches. This is 70 percent of the seasonal April 1 average and 110 percent of the February 1 average. Last year at this time the pack was holding 4.6 inches of water. At the same time 40 **Tulare Lake** snow courses indicate a basin-wide snow water equivalent of less than 15.9 inches. This is 70 percent of the seasonal April 1 average and 115 percent of the February 1 average. Last year at this time the pack was holding 2.9 inches of water.

**Precipitation**  
October 1 to date in % of average



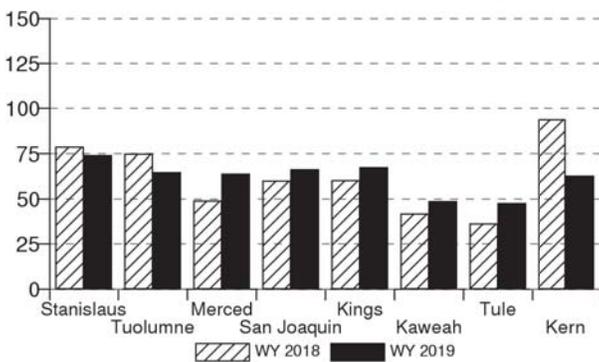
**PRECIPITATION** - Seasonal precipitation (October 1 through to the end of January) on the **San Joaquin Region** was 100 percent of normal. Precipitation last month was about 120 percent of the monthly average. Season precipitation at this time last year stood at 55 percent of normal. Seasonal precipitation (October 1 through to the end of January) on the **Tulare Lake Region** was 100 percent of normal. Precipitation last month was about 110 percent of the monthly average. Seasonal precipitation at this time last year stood at 35 percent of normal.

**Reservoir Storage**  
Contents of major reservoirs in % of capacity



**RESERVOIR STORAGE** - First of the month storage in 34 **San Joaquin Region** reservoirs was 8.06 million acre-feet which is 115 percent of average. About 70 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 588 thousand acre-feet which is 75 percent of average. About 30 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

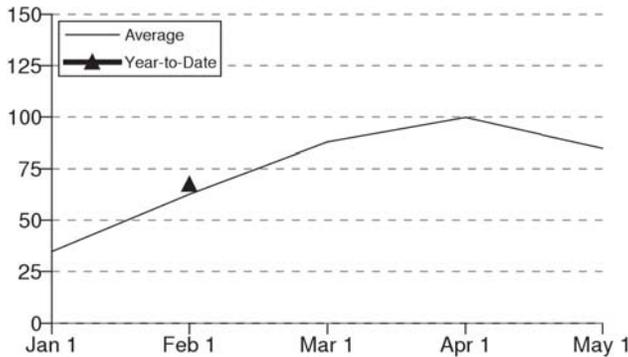


**RUNOFF** - Seasonal runoff of streams draining the **San Joaquin Region** totaled 716 thousand acre-feet which is 65 percent of average. Last year, runoff for the same period was 65 percent of average. Seasonal runoff of streams draining the **Tulare Lake Region** area totaled 249 thousand acre-feet which is 60 percent of average. Last year, runoff for the same period was 65 percent of average.

The **San Joaquin Region 60-20-20 Water Supply Index** is forecast to be 2.8 at the 75 percent exceedence level assuming median future meteorological conditions. This classifies the year as "below normal" in the San Joaquin Region according to the State Water Resources Control Board.

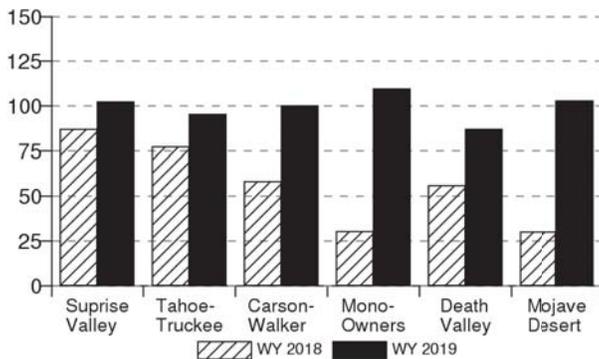
# NORTH AND SOUTH LAHONTAN REGIONS

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



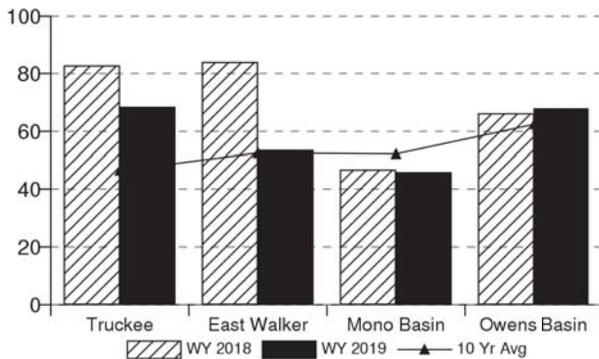
**SNOWPACK**- First of the month measurements made at 11 **North Lahontan Region** snow courses indicate an area wide snow water equivalent of 14.5 inches. This is 70 percent of the seasonal April 1 average and 105 percent of the February 1 average. Last year at this time the pack was 4.0 inches of water. At the same time 17 **South Lahontan Region** snow courses indicate a basin-wide snow water equivalent of 15.0 inches. This is 75 percent of the seasonal April 1 average and 115 percent of the February 1 average. Last year at this time the pack was holding 5.2 inches of water.

**Precipitation**  
October 1 to date in % of average



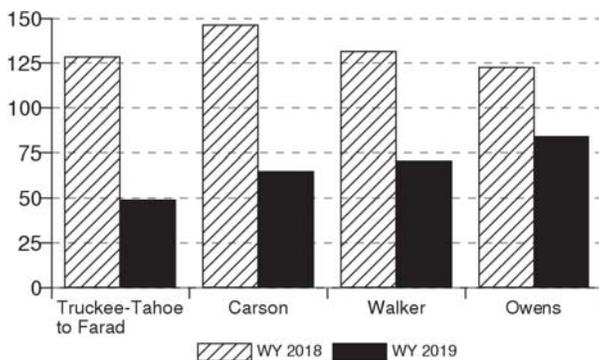
**PRECIPITATION**- Seasonal precipitation (October 1 through to the end of January) on the **North Lahontan Region** was 100 percent of normal. Precipitation last month was about 140 percent of the monthly average. Season precipitation at this time last year stood at 70 percent of normal. Seasonal precipitation (October 1 through to the end of January) on the **South Lahontan Region** was 95 percent of normal. Precipitation last month was about 150 percent of the monthly average. Seasonal precipitation at this time last year stood at 40 percent of normal.

**Reservoir Storage**  
Contents of major reservoirs in % of capacity



**RESERVOIR STORAGE**- First of the month storage in 5 **North Lahontan Region** reservoirs was 726 thousand acre-feet which is 145 percent of average. About 70 percent of available capacity was being used. Storage in these reservoirs at this time last year was 175 percent of average. First of the month storage in 8 **South Lahontan Region** reservoirs was 276 thousand acre-feet which is 105 percent of average. About 65 percent of available capacity was being used. Storage in these reservoirs at this time last year was 100 percent of average.

**Runoff**  
October 1 to date in % of average

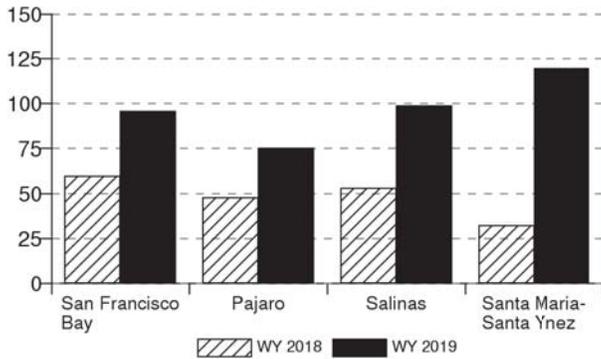


**RUNOFF**- Seasonal runoff of streams draining the **North Lahontan Region** totaled 86 thousand acre-feet which is 60 percent of average. Last year, runoff for the same period was 135 percent of average. Seasonal runoff of streams draining the **South Lahontan Region** area totaled 36 thousand acre-feet which is 85 percent of average. Last year, runoff for the same period was 120 percent of average.

# SAN FRANCISCO BAY AND CENTRAL COAST REGIONS

## Precipitation

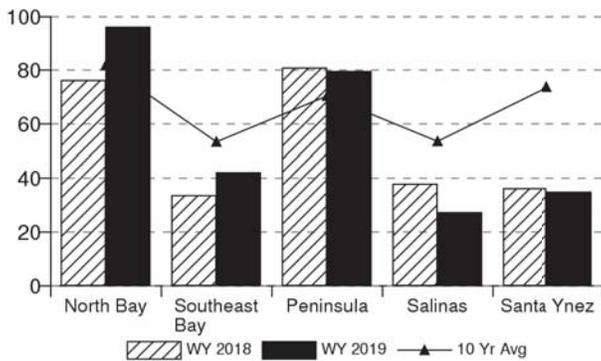
October 1 to date in % of average



**PRECIPITATION**- Seasonal precipitation (October 1 through to the end of January) on the **San Francisco Bay Region** was 100 percent of normal. Precipitation last month was about 125 percent of the monthly average. Seasonal precipitation at this time last year stood at 60 percent of normal. Seasonal precipitation (October 1 through to the end of January) on the **Central Coast Region** was 100 percent of normal. Precipitation last month was about 135 percent of the monthly average. Seasonal precipitation at this time last year stood at 45 percent of normal.

## Reservoir Storage

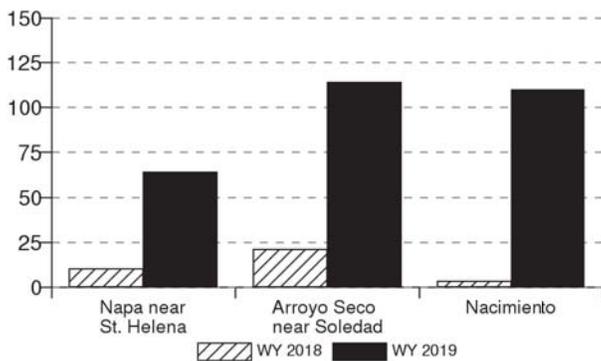
Contents of major reservoirs in % of capacity



**RESERVOIR STORAGE**- First of the month storage in 17 **San Francisco Region** reservoirs was 436 thousand acre-feet which is 95 percent of average. About 60 percent of available capacity was being used. Storage in these reservoirs at this time last year was 85 percent of average. First of the month storage in 6 **Central Coast Region** reservoirs was 305 thousand acre-feet which is 50 percent of average. About 30 percent of available capacity was being used. Storage in these reservoirs at this time last year was 65 percent of average.

## Runoff

October 1 to date in % of average



**RUNOFF**- Seasonal runoff of streams draining the **San Francisco Region** totaled 22 thousand acre-feet which is 65 percent of average. Last year, runoff for the same period was 10 percent of average. Seasonal runoff of streams draining the **Central Coast Region** area totaled 135 thousand acre-feet which is 110 percent of average. Last year, runoff for the same period was 10 percent of average.

## SOUTH COAST REGION

**PRECIPITATION** - October through January (seasonal precipitation on the **South Coast Region** is 125 percent of normal. January precipitation was 165 percent of the monthly average. Seasonal precipitation at this time last year was 30 percent of normal.

**RESERVOIR STORAGE** - January 31 storage in 29 major **South Coast Region** reservoirs is 1,214 thousand acre-feet or 90 percent of average. About 55 percent of available capacity is being used. Storage in these reservoirs at this time last year was 90 percent of average.

**RUNOFF** - Seasonal runoff from selected **South Coast Region** streams totaled 33 thousand acre-feet which is 65 percent of average. Seasonal runoff from these streams last year was 5 percent of average.

## COLORADO RIVER REGION

**SNOWPACK** - The February 1 snowpack in the Colorado River basin above Lake Powell is 100 percent of average, highest in the Roaring Fork and South Eastern Utah basins at 115 percent and lowest in the San Juan River basin at 80 percent of average.

**PRECIPITATION** - October through January seasonal precipitation on the **Colorado River-Desert Region** is 145 percent of normal. January precipitation was 165 percent of the monthly average. Seasonal precipitation at this time last year was 35 percent of normal.

**RESERVOIR STORAGE** - On January 31, combined storage in Lakes Powell, Mead, Mohave, and Havasu was about 22.4 million acre-feet or about 60 percent of average. About 40 percent of available capacity was in use. Last year at this time, these reservoirs were storing 70 percent of average.

**RUNOFF** - The April-July inflow to Lake Powell is forecast to be 6.2 million acre-feet, which is 87 percent of average.

**MAJOR WATER DISTRIBUTION PROJECTS  
RESERVOIR STORAGE  
(AVERAGES BASED ON 1966-2015 OR PERIOD RECORD)**

RESERVOIR	CAPACITY 1,000 AF	AVERAGE STORAGE 1,000 AF	STORAGE AT END OF January			
			2018 1,000 AF	2019 1,000 AF	PERCENT AVERAGE	PERCENT CAPACITY
<b><i>STATE WATER PROJECT</i></b>						
Lake Oroville	3,538	2,292	1,408	1,404	61%	40%
San Luis Reservoir (SWP)	1,062	840	762	936	111%	88%
Lake Del Valle	77	31	26	30	96%	39%
Lake Silverwood	78	66	67	66	100%	85%
Pyramid Lake	180	163	166	156	95%	86%
Castaic Lake	325	267	255	244	91%	75%
Perris Lake	131	102	70	115	113%	87%
<b><i>CENTRAL VALLEY PROJECT</i></b>						
Trinity Lake	2,448	1,685	1,776	1,587	94%	65%
Lake Shasta	4,552	3,034	3,349	2,912	96%	64%
Whiskeytown Lake	241	205	205	207	101%	86%
Folsom Lake	977	500	582	523	105%	53%
New Melones Reservoir	2,400	1,414	1,981	1,871	132%	78%
Millerton Lake	521	331	372	318	96%	61%
San Luis Reservoir (CVP)	971	733	973	813	111%	84%
<b><i>COLORADO RIVER PROJECT</i></b>						
Lake Mead	26,159	19,139	10,642	10,493	55%	40%
Lake Powell	24,322	16,985	13,672	9,629	57%	40%
Lake Mohave	1,810	1,674	1,641	1,668	100%	92%
Lake Havasu	648	551	539	553	100%	85%
<b><i>EAST BAY MUNICIPAL UTILITY DISTRICT</i></b>						
Pardee Res	204	179	182	184	103%	90%
Camanche Reservoir	417	246	316	319	129%	76%
East Bay (4 res.)	159	124	125	112	91%	71%
<b><i>CITY AND COUNTY OF SAN FRANCISCO</i></b>						
Hetch-Hetchy Reservoir	360	184	317	259	141%	72%
Cherry Lake	268	159	39	218	137%	81%
Lake Eleanor	29	11	10	24	223%	84%
South Bay/Peninsula (4 res.)	238	156	133	144	92%	60%
<b><i>CITY OF LOS ANGELES (D.W.P.)</i></b>						
Lake Crowley	183	122	125	128	105%	70%
Grant Lake	48	29	23	27	93%	56%
Other Aqueduct Storage (6 res.)	83	75	133	144	92%	60%

# TELEMETERED SNOW WATER EQUIVALENTS

February 1, 2019

(AVERAGES BASED ON PERIOD RECORD)

BASIN NAME STATION NAME	ELEV	APRIL 1 AVERAGE	Feb 1	INCHES OF WATER EQUIVALENT		
				PERCENT OF AVERAGE	24 HRS PREVIOUS	1 WEEK PREVIOUS
<b>TRINITY RIVER</b>						
Shimmy Lake	6400'	40.3	24.0	59.5	24.2	24.7
Crowder Flat	5100'	-	2.4	-	3.0	2.6
Highland Lakes	6030'	29.9	22.9	76.7	23.4	23.3
Mumbo Basin	5650'	22.4	10.0	44.6	10.2	11.4
Bonanza King	6450'	40.5	23.8	58.7	23.8	23.5
Red Rock Mountain	6700'	39.6	33.0	83.4	33.0	32.8
Big Flat	5100'	15.8	10.4	65.5	10.5	10.7
Scott Mountain	5900'	16.0	15.5	96.8	16.0	15.5
Peterson Flat	7150'	29.2	17.4	59.6	17.6	17.8
Middle Boulder 3	6200'	28.3	20.1	70.8	20.5	21.0
<b>SACRAMENTO RIVER</b>						
Blacks Mountain	7050'	12.7	10.4	82.2	10.4	10.3
Cedar Pass	7100'	18.1	11.0	60.8	10.9	11.1
Medicine Lake	6700'	32.6	22.9	70.3	22.8	22.4
Sand Flat	6750'	42.4	23.4	55.2	23.4	23.4
Slate Creek	5700'	29.0	11.1	38.2	11.3	12.6
Adin Mountain	6200'	13.6	10.9	80.1	10.6	10.4
Stouts Meadow	5400'	36.0	15.7	43.6	15.7	15.7
Snow Mountain	5950'	27.0	20.9	77.3	21.0	21.0
<b>FEATHER RIVER</b>						
Kettle Rock	7300'	25.5	20.9	81.9	21.0	21.0
Gold Lake	6750'	36.5	25.6	70.0	25.6	25.1
Bucks Lake	5750'	44.7	9.5	21.2	9.6	10.6
Harkness Flat	6200'	28.5	18.7	65.7	18.9	18.9
Four Trees	5150'	20.0	4.3	21.6	4.7	6.2
Humbug	6500'	28.0	25.8	92.1	25.8	25.8
Grizzly Ridge	6900'	29.7	18.8	63.4	18.8	18.4
Rattlesnake	6100'	14.0	13.9	99.4	14.2	14.5
Lower Lassen Peak	8250'	-	48.8	-	48.8	50.0
Pilot Peak	6800'	52.6	24.8	47.2	25.3	26.7
<b>EEL RIVER</b>						
Noel Spring	5100'	-	4.4	-	4.5	4.8
<b>YUBA &amp; AMERICAN RIVERS</b>						
Carson Pass	8353'	-	20.5	-	20.6	20.6
Lake Lois	8600'	39.5	26.8	67.9	26.9	26.7
Forni Ridge	7600'	37.0	26.0	70.2	26.0	25.9
Silver Lake	7100'	22.7	19.3	85.0	19.1	18.8
Blue Canyon	5280'	9.0	7.1	78.7	7.1	7.9
Schneiders	8750'	34.5	18.7	54.2	18.7	19.0
Meadow Lake	7200'	55.5	38.8	69.9	38.9	-
Robbs Powerhouse	5150'	5.2	2.4	45.4	2.4	3.1
Robinson Cow Camp	6480'	-	28.6	-	28.5	28.7
Cent Sierra Snow Lab	6900'	33.6	27.7	82.4	27.6	27.5
Caples Lake	8000'	30.9	25.6	82.9	25.5	25.3
Alpha	7600'	35.9	22.7	63.1	22.7	22.8
Robbs Saddle	5900'	21.4	9.0	42.0	9.2	9.6
Huysink	6600'	42.6	20.2	47.3	20.3	20.3
Van Vleck	6700'	35.9	25.7	71.6	25.5	25.7
Greek Store	5600'	21.0	10.3	49.1	10.3	10.6
<b>MOKELUMNE &amp; STANISLAUS RIVERS</b>						
Highland Meadow	8700'	47.9	31.4	65.6	31.3	30.7
Gianelli Meadow	8400'	55.5	37.1	66.8	37.2	36.5
Bloods Creek	7200'	35.5	21.5	60.5	21.5	21.6
Blue Lakes	8000'	33.1	20.3	61.3	20.2	19.8
Mud Lake	7900'	44.9	-	-	-	-
Black Springs	6500'	32.0	17.1	53.3	17.2	17.3
Stanislaus Meadow	7750'	47.5	27.9	58.7	27.8	27.1
Deadman Creek	9250'	37.2	17.9	48.1	17.9	17.2
Lower Relief Valley	8100'	41.2	25.4	61.7	25.6	26.0
<b>TUOLUMNE &amp; MERCED RIVERS</b>						
Dana Meadows	9800'	27.7	17.5	63.2	17.5	17.6
Horse Meadow	8400'	48.6	32.3	66.5	32.3	32.2
Tuolumne Meadows	8600'	22.6	13.2	58.6	13.5	13.4
Slide Canyon	9200'	41.1	23.5	57.1	23.4	23.3
Ostrander Lake	8200'	34.8	22.1	63.4	22.1	22.1
Gin Flat	7050'	34.2	-	-	-	-
Tenaya Lake	8150'	33.1	19.7	59.4	19.6	19.7
White Wolf	7900'	-	20.1	-	20.0	20.4
Lower Kibbie Ridge	6700'	27.4	11.2	40.7	11.5	12.7
Paradise Meadow	7650'	41.3	26.3	63.6	26.0	25.4

**SAN JOAQUIN RIVER**

Volcanic Knob	10050'	30.1	16.9	56.0	16.9	17.6
Tamarack Summit	7550'	30.5	16.0	52.3	15.8	15.7
Kaiser Point	9200'	37.8	17.1	45.2	17.1	17.1
Huntington Lake	7000'	20.1	12.1	60.2	12.1	11.9
Green Mountain	7900'	30.8	17.4	56.5	17.3	17.5
Poison Ridge	6900'	28.9	14.1	48.9	14.0	14.3
Graveyard Meadow	6900'	18.8	13.2	70.2	13.2	13.6
Agnew Pass	9450'	32.3	-	-	-	-
Devils Postpile	7569'	-	14.8	-	15.2	15.7
Chilkoot Meadow	7150'	38.0	20.3	53.4	20.3	20.0

**KINGS RIVER**

Bishop Pass	11200'	34.0	9.3	27.5	9.3	9.3
Blackcap Basin	10300'	34.3	-	-	-	-
Mitchell Meadow	9900'	32.9	22.3	67.7	22.3	22.2
Upper Burnt Corral	9700'	34.6	18.9	54.5	19.0	18.5
State Lakes	10300'	29.0	19.9	68.4	19.9	19.6
West Woodchuck Meadow	9100'	32.8	16.3	49.6	16.2	15.8
Big Meadows	7600'	25.9	15.5	59.7	-	-
Charlotte Lake	10400'	27.5	-	-	-	-

**KAWEAH & TULE RIVERS**

Farewell Gap	9500'	34.5	-	-	-	-
Giant Forest	6650'	10.0	3.9	38.8	3.9	3.9
Quaking Aspen	7200'	21.0	11.6	55.2	11.7	11.8

**KERN RIVER**

Tunnel Guard Station	8900'	15.6	-	-	-	-
Beach Meadows	7650'	11.0	8.6	78.5	8.4	8.9
Upper Tyndall Creek	11400'	27.7	13.3	47.9	13.2	13.0
Casa Vieja Meadows	8300'	20.9	15.1	72.2	15.1	14.8
Pascoes	9150'	24.9	19.4	77.9	19.0	18.7
Wet Meadows	8950'	30.3	18.6	61.3	18.6	18.6
Chagoopa Plateau	10300'	21.8	14.8	67.7	14.7	14.3
Crabtree Meadow	10700'	19.8	11.0	55.8	11.2	11.3

**SURPRISE VALLEY AREA**

Dismal Swamp	7050'	29.2	19.0	65.1	18.8	18.5
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**TRUCKEE RIVER**

Independence Camp	7000'	21.8	14.1	64.7	14.0	13.3
Independence Lake	8450'	41.4	25.4	61.4	25.3	25.1
Squaw Valley Gold Coast	8200'	46.5	30.8	66.2	30.4	29.2
Truckee 2	6400'	14.3	13.3	93.0	13.6	13.7
Independence Creek	6500'	12.7	7.7	60.6	8.1	9.1
Big Meadows	8700'	25.7	15.8	61.5	15.9	15.7

**LAKE TAHOE BASIN**

Rubicon Peak 2	7500'	29.1	15.6	53.6	15.7	15.5
Tahoe City Cross	6750'	16.0	11.1	69.4	11.6	11.1
Echo Peak 5	7800'	39.5	26.5	67.1	26.4	25.8
Hagans Meadow	8000'	16.5	11.3	68.5	11.4	11.6
Fallen Leaf Lake	6250'	7.0	5.6	80.0	5.6	5.7
Ward Creek 3	6750'	39.4	27.4	69.5	27.1	25.9
Mount Rose Ski Area	8900'	38.5	24.0	62.3	24.0	24.0
Heavenly Valley	8800'	28.1	14.2	50.5	14.1	14.0
Marlette Lake	8000'	21.1	15.1	71.6	15.1	15.0

**CARSON RIVER**

Spratt Creek	6150'	4.5	5.1	113.3	5.2	5.3
Horse Meadow	8400'	48.6	32.3	66.5	32.3	32.2
Burnside Lake	8129'	-	17.6	-	17.7	17.9
Monitor Pass	8350'	-	10.6	-	10.6	10.4
Poison Flat	7900'	16.2	11.8	72.8	11.7	11.1
Forestdale Creek	8017'	-	23.9	-	24.0	24.1
Ebbetts Pass	8700'	38.8	23.8	61.3	23.8	23.8

**WALKER RIVER**

Sonora Pass Bridge	8750'	26.0	15.9	61.2	15.9	15.9
Virginia Lakes Ridge	9300'	20.3	9.5	46.8	9.6	9.6
Lobdell Lake	9200'	17.3	11.0	63.6	10.9	-
Summit Meadow	9313'	-	13.7	-	13.8	13.6
Leavitt Meadows	7200'	8.0	11.1	138.8	10.8	10.2
Leavitt Lake	9600'	-	31.5	-	31.5	31.3

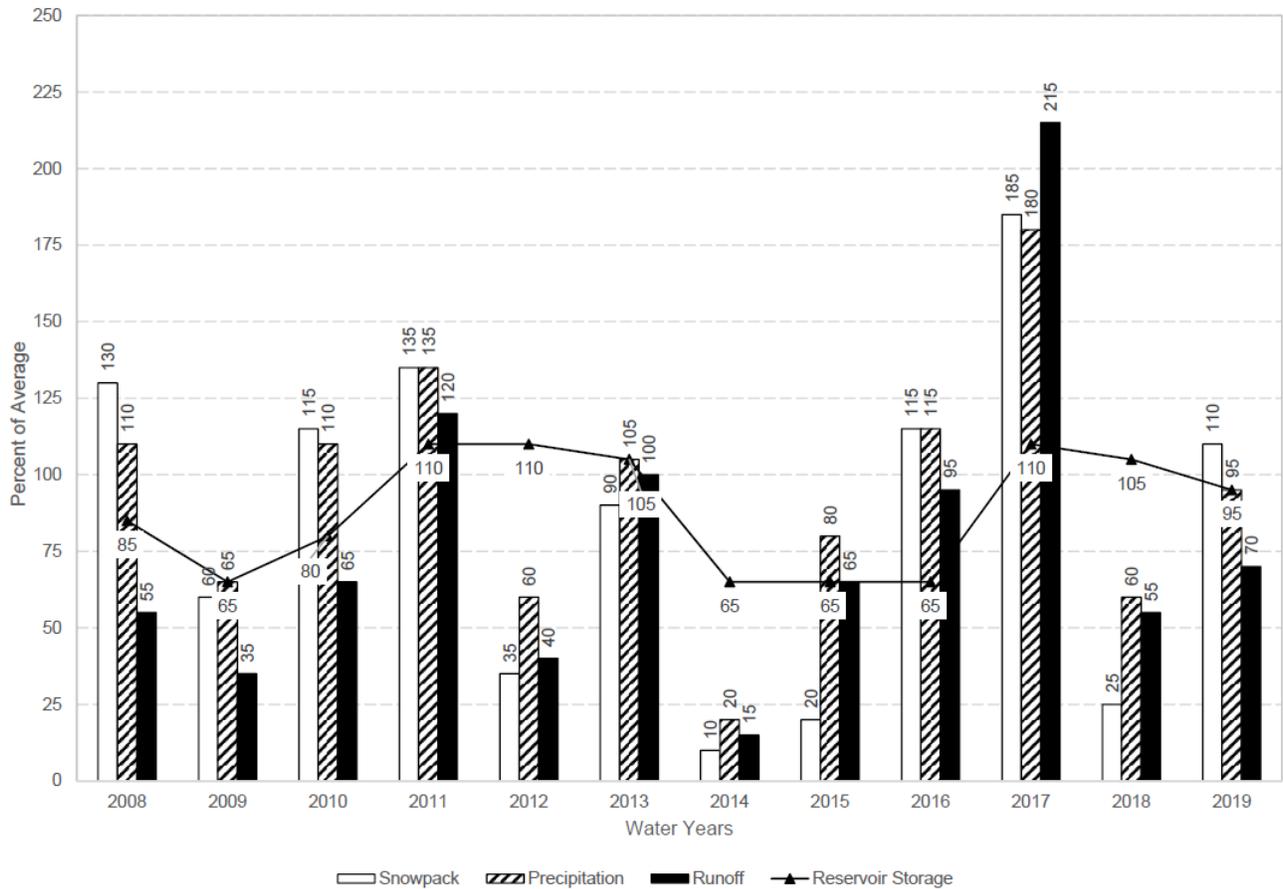
**OWENS RIVER/MONO LAKE**

Cottonwood Lakes	10150'	11.6	9.6	83.1	9.6	9.7
Gem Pass	10750'	31.7	12.3	38.9	12.3	12.5
Rock Creek Lakes	9700'	14.0	11.0	78.4	10.9	11.1
South Lake	9600'	16.0	10.1	63.1	10.1	10.6
Big Pine Creek	9800'	17.9	10.8	60.2	10.7	10.7
Sawmill	10200'	19.4	10.9	56.0	10.9	11.0

**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%

## February 1 Statewide Conditions



## SNOWLINES

Registration is now open for the **87th annual Western Snow Conference** to be held in Reno, Nevada, April 15-18, 2019. We expect a full agenda of informative and interesting presentations related to snow hydrology, meteorological measurement techniques, and water resource management.

Meeting Information:

<https://westernsnowconference.org/meeting/2019>

Online Registration:

<https://www.regonline.com/registration/Checkin.aspx?EventID=2547864>

**Depicted** on this month's cover is a photo of the ice-covered Caples Lake near Kirkwood Mountain Resort. This photo was taken in the late afternoon on Monday, January 21, 2019, and was submitted by Charlyn Sarkis with East Bay Municipal District.