

## Summary of Water Conditions

March 1, 2020

February was extremely dry over all of California with little or no rain in normally wetter northern California. Hopefully March storms or even a late season April event will improve the outlook some, along with some reservoir carryover from a wet 2019, to enable near normal water deliveries for many users.

**Forecasts** of median April through July runoff are for about 50 percent of average runoff compared to last year's forecast of 140 percent at this time and an eventual 170 percent at the end of the 2019 snowmelt season. Water year runoff is also projected to be 50 percent of average; in 2019 total runoff was around 145 percent of average.

**Snowpack** water content is about 45 percent of average for this date and about 40 percent of the April 1 average, the normal peak of the accumulation season. Last year the snowpack was 170 percent of average on March 1 and also 175 percent on April 1.

**Precipitation** from October through February was about 55 percent of average statewide compared to 130 percent last year. February 2020 was extremely dry with only 5 percent of average statewide; many stations had no rain in a normally wet month.

**Runoff** to date is estimated to be about 45 percent of average statewide and February runoff only 30 percent of average for the month. Estimated February runoff of the eight major rivers of the Sacramento-San Joaquin River region in February was 0.90 million acre-feet. Water year runoff in 2019 was about 135 percent of average.

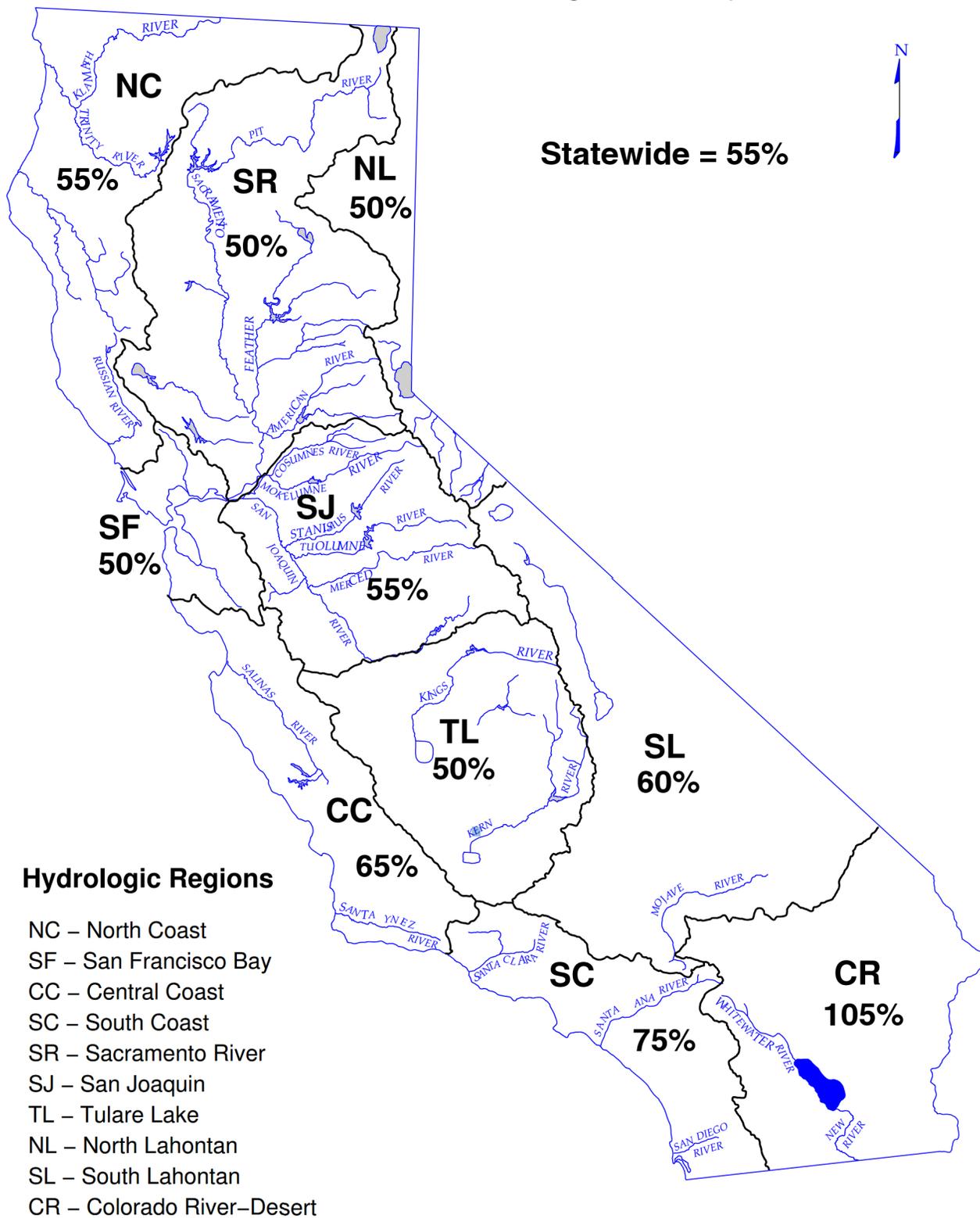
**Reservoir storage** is at 105 percent of average compared to 115 percent of average last year at this time. Overall there was almost no gain in storage during the month.

### SUMMARY OF WATER CONDITIONS IN PERCENT OF AVERAGE

HYDROLOGIC REGION	PRECIPITATION OCTOBER 1 TO DATE	MARCH 1 SNOW WATER CONTENT	MARCH 1 RESERVOIR STORAGE	RUNOFF OCTOBER 1 TO DATE	APRIL-JULY RUNOFF FORECAST	WATER YEAR RUNOFF FORECAST
NORTH COAST	55	45	110	35	50	45
SAN FRANCISCO BAY	50	--	90	20	--	--
CENTRAL COAST	65	--	80	35	--	--
SOUTH COAST	75	--	90	20	--	--
SACRAMENTO RIVER	50	45	100	50	55	50
SAN JOAQUIN RIVER	55	40	110	40	45	40
TULARE LAKE	50	45	95	60	45	45
NORTH LAHONTAN	50	40	150	65	50	50
SOUTH LAHONTAN	60	50	105	95	60	70
COLORADO RIVER	105	--	--	75	--	--
<b>STATEWIDE</b>	55	45	105	45	50	50

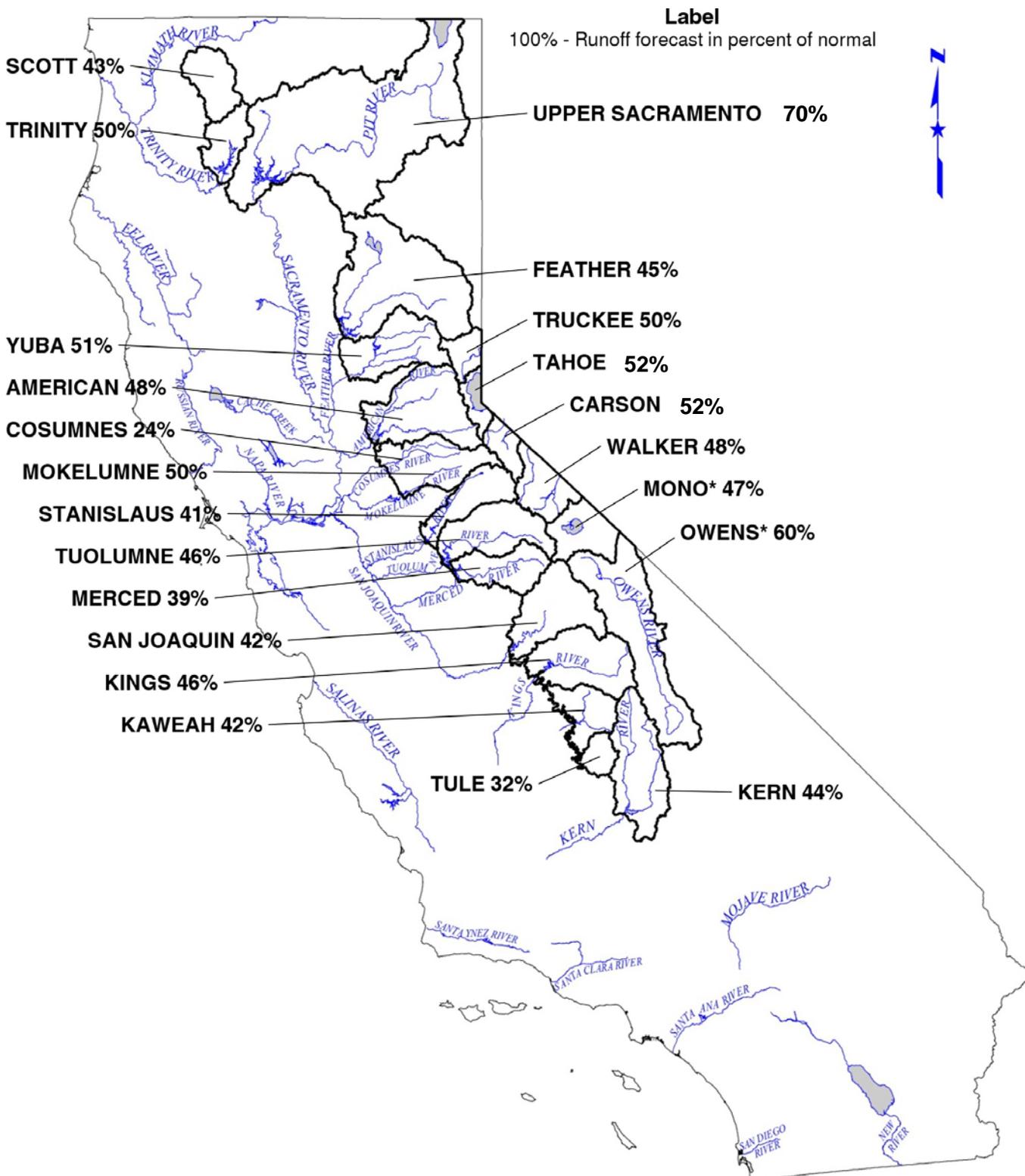
# DEPARTMENT OF WATER RESOURCES CALIFORNIA COOPERATIVE SNOW SURVEYS SEASONAL PRECIPITATION

IN PERCENT OF AVERAGE TO DATE  
October 1, 2019 through February 29, 2020



WATER YEAR IS OCTOBER 1 THROUGH SEPTEMBER 30

# DEPARTMENT OF WATER RESOURCES CALIFORNIA COOPERATIVE SNOW SURVEYS FORECAST OF APRIL-JULY UNIMPAIRED SNOWMELT RUNOFF March 1, 2020



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

**March 1, 2020 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>320</b>	50%	230 - 390
<b>SACRAMENTO RIVER</b>						
<b>Upper Sacramento River</b>						
Sacramento River at Delta above Shasta Lake	295	751	39	165	56%	
McCloud River above Shasta Lake	385	850	185	300	78%	
Pit River near Montgomery Creek + Squaw Creek	1,020	2,098	480	750	74%	
Total Inflow to Shasta Lake	1,756	3,525	711	<b>1,230</b>	70%	940 - 1,480
<b>Sacramento River above Bend Bridge, near Red Bluff</b>	2,421	5,117	943	<b>1,480</b>	61%	1,100 - 1,810
<b>Feather River</b>						
Feather River at Lake Almanor near Prattville (3)	333	675	120	180	54%	
North Fork at Pulga (3)	1,028	2,416	243	490	48%	
Middle Fork near Clio (4)	86	518	4	45	52%	
South Fork at Ponderosa Dam (3)	110	267	13	50	45%	
Feather River at Oroville	1,704	4,676	378	<b>760</b>	45%	530 - 970
<b>Yuba River</b>						
North Yuba below Goodyears Bar	279	647	51	140	50%	
Inflow to Jackson Mdws and Bowman Reservoirs (3)	112	236	25	60	54%	
South Yuba at Langs Crossing (3)	233	481	57	120	52%	
Yuba River near Smartsville plus Deer Creek	968	2,424	151	<b>490</b>	51%	320 - 620
<b>American River</b>						
North Fork at North Fork Dam (3)	262	716	43	110	42%	
Middle Fork near Auburn (3)	522	1,406	100	240	46%	
Silver Creek below Camino Diversion Dam (3)	173	386	37	80	46%	
American River below Folsom Lake	1,199	3,074	185	<b>580</b>	48%	420 - 780
<b>SAN JOAQUIN RIVER</b>						
<b>Cosumnes River at Michigan Bar</b>	125	446	8	<b>30</b>	24%	15 - 45
<b>Mokelumne River</b>						
North Fork near West Point (5)	437	829	104	210	48%	
Total Inflow to Pardee Reservoir	457	1,076	75	<b>230</b>	50%	160 - 270
<b>Stanislaus River</b>						
Middle Fork below Beardsley Dam (3)	334	702	64	130	39%	
North Fork Inflow to McKays Point Dam (3)	224	503	34	80	36%	
Stanislaus River below Goodwin Reservoir (9)	682	1,710	116	<b>280</b>	41%	210 - 360
<b>Tuolumne River</b>						
Cherry Creek & Eleanor Creek near Hetch Hetchy	315	727	97	150	48%	
Tuolumne River near Hetch Hetchy	604	1,392	153	300	50%	
Tuolumne River below La Grange Reservoir (9)	1,193	2,682	301	<b>550</b>	46%	400 - 680
<b>Merced River</b>						
Merced River at Pohono Bridge	372	888	80	150	40%	
Merced River below Merced Falls (9)	623	1,587	104	<b>240</b>	39%	170 - 300
<b>San Joaquin River</b>						
San Joaquin River at Mammoth Pool (7)	1,026	2,279	235	450	44%	
Big Creek below Huntington Lake (8)	91	264	11	30	33%	
South Fork near Florence Lake (7)	201	511	58	100	50%	
San Joaquin River inflow to Millerton Lake	1,228	3,355	193	<b>520</b>	42%	370 - 660
<b>TULARE LAKE</b>						
<b>Kings River</b>						
North Fork Kings River near Cliff Camp (3)	239	565	50	110	46%	
Kings River below Pine Flat Reservoir	1,210	3,113	208	<b>560</b>	46%	410 - 700
<b>Kaweah River below Terminus Reservoir</b>						
	285	814	42	<b>120</b>	42%	80 - 150
<b>Tule River below Lake Success</b>						
	63	259	1	<b>20</b>	32%	10 - 29
<b>Kern River</b>						
Kern River near Kernville	384	1,203	83	180	47%	
Kern River inflow to Lake Isabella	458	1,657	57	<b>200</b>	44%	130 - 260

(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.

**March 1, 2020 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	155	48	85	130	125	50	15	6	5	<b>620</b>	46%	500 -	715
860	1,966	165	143	36	65	75	55	22	13	11	10	430	50%	- -	-
1,183	2,353	557	299	73	80	100	80	65	55	50	49	850	72%	- -	-
3,002	5,150	1,484	739	206	230	240	205	170	135	120	120	2,165	72%	- -	-
5,831	10,796	2,479	1,286	298	410	445	350	235	200	180	181	<b>3,585</b>	61%	3,110 -	3,995
8,544	17,180	3,294	1,783	446	590	530	415	295	240	200	206	<b>4,705</b>	55%	4,085 -	5,260
780	1,269	366													
2,417	4,400	666													
219	637	24													
291	562	32													
4,407	10,178	994	783	180	290	320	220	130	90	75	67	<b>2,155</b>	49%	1,840 -	2,485
564	1,056	102													
181	292	30													
379	565	98													
2,268	5,604	369	301	75	160	215	190	65	20	12	12	<b>1,050</b>	46%	815 -	1,280
616	1,234	66													
1,070	2,575	144													
318	705	59													
2,626	7,391	349	289	77	200	260	245	65	10	2	2	<b>1,150</b>	44%	930 -	1,425
379	1,253	20	34	9	18	20	8	2	0	0	0	<b>92</b>	24%	65 -	120
626	1,009	197													
748	1,901	129	56	19	33	85	110	31	4	1	1	<b>340</b>	45%	255 -	390
471	929	88													
-	-	-													
1,149	3,078	155	115	32	75	110	120	40	10	2	1	<b>505</b>	44%	415 -	620
461	1,147	123													
770	1,661	258													
1,909	4,631	383	144	36	124	175	250	105	20	5	2	<b>860</b>	45%	670 -	1,025
461	1,020	92													
992	2,787	150	66	16	41	85	110	35	10	2	0	<b>365</b>	37%	280 -	440
1,337	2,964	308													
112	298	14													
248	653	71													
1,793	4,642	327	107	33	62	155	205	130	30	15	8	<b>745</b>	42%	570 -	910
284	607	58													
1,702	4,287	359	125	34	68	150	240	135	35	15	9	<b>810</b>	48%	635 -	975
451	1,402	89	35	11	21	35	55	25	5	2	1	<b>190</b>	42%	140 -	230
147	615	10	19	5	7	10	8	2	0	0	0	<b>50</b>	34%	35 -	65
558	1,577	163													
728	2,318	130	106	25	35	55	70	55	20	11	8	<b>385</b>	53%	295 -	465

(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.

**March 1, 2020 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**

**Scott River**

Scott River nr Ft Jones (3) 173 398 22 **75** 43%

**Klamath River**

Total inflow to Upper Klamath Lake (4) 475 1,150 149 **305** 64%

**NORTH LAHONTAN**

**Truckee River**

Lake Tahoe to Farad accretions 250 713 48 **125** 50%

Lake Tahoe Rise (assuming gates closed, ft) 1.3 5.4 0.2 **0.7** 52%

**Carson River**

West Fork Carson River at Woodfords 52 135 10 **32** 62%

East Fork Carson River near Gardnerville 182 480 43 **90** 49%

**Walker River**

West Walker River below Little Walker, near Coleville 153 410 35 **80** 52%

East Walker River near Bridgeport 61 209 7 **22** 36%

**SOUTH LAHONTAN**

**Owens River**

Total tributary flow to Owens River (5) 231 579 84 **138** 60%

(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).

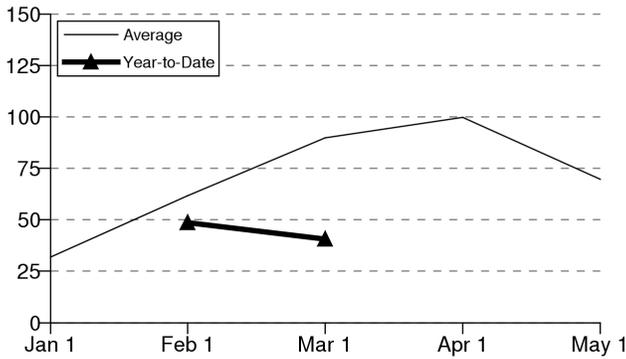
(4) Forecast by U.S. Natural Resources Conservation Service and National Weather Service California-Nevada River Forecast Center, April through September forecast, 30 year average based on years 1981-2010.

(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.

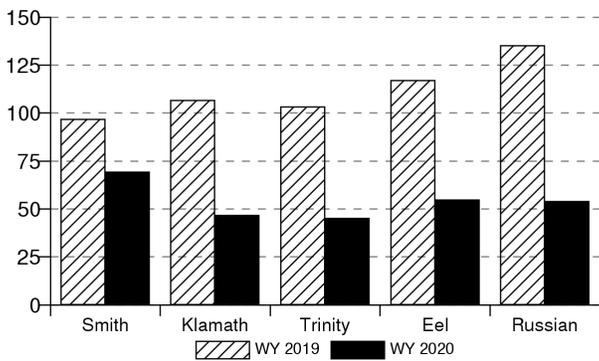
# NORTH COAST REGION

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



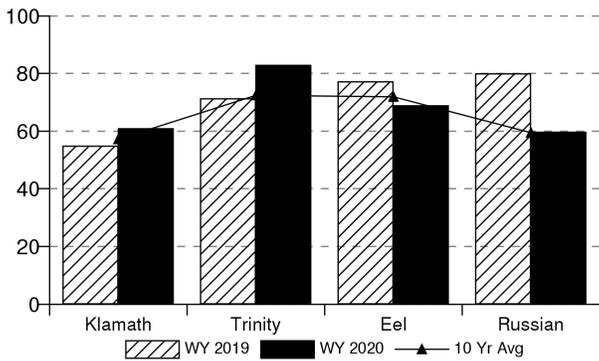
**SNOWPACK** First of the month measurements made at 10 snow courses indicate an area wide snow water equivalent of less than 12.8 inches. This is 40 percent of the seasonal April 1 average and 45 percent of the March 1 average. Last year at this time the pack was holding less than 36.9 inches of water.

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



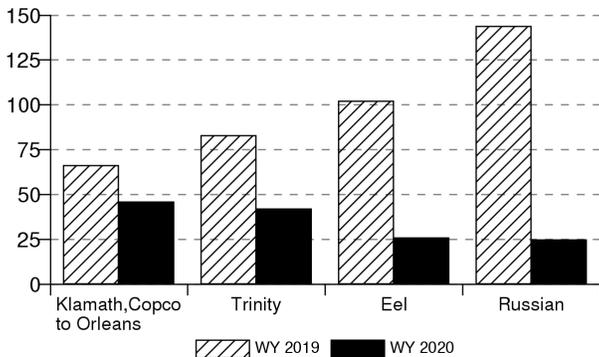
**PRECIPITATION** Seasonal precipitation (October 1 through to the end of February) on this area was 55 percent of normal. Precipitation last month was about 5 percent of the monthly average. Seasonal precipitation at this time last year stood at 110 percent of normal.

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



**RESERVOIR STORAGE** First of the month storage at 6 reservoirs was 2.41 million acre-feet which is 110 percent of average. About 80 percent of available capacity was being used. Storage in these reservoirs at this time last year was 105 percent of average.

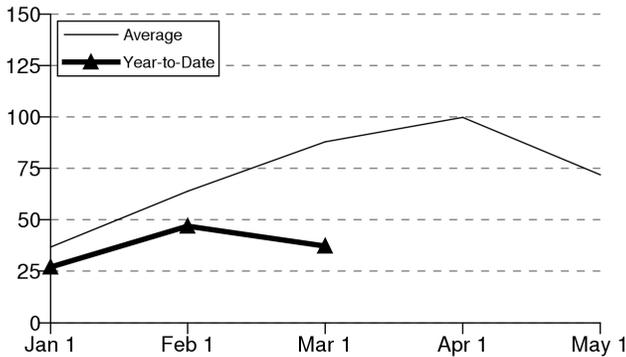
**Runoff**  
October 1 to date in % of average



**RUNOFF** Seasonal runoff of streams draining this area totaled 2.32 million acre-feet which is 35 percent of average. Last year, runoff for the same period was 95 percent of average.

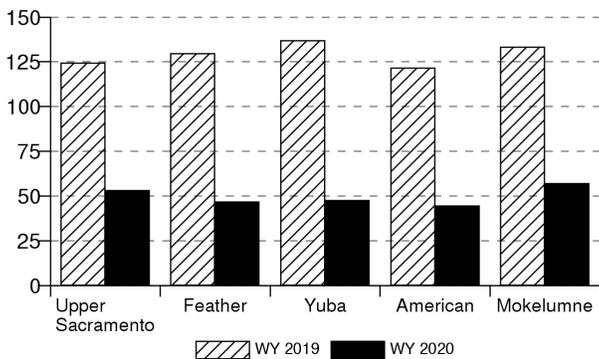
# SACRAMENTO RIVER REGION

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



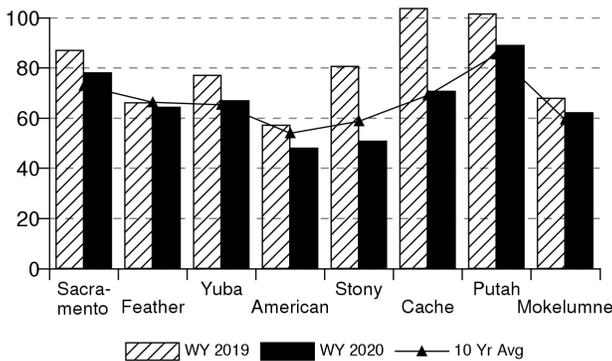
**SNOWPACK** First of the month measurements made at 66 snow courses indicate an area wide snow water equivalent of less than 12.1 inches. This is 40 percent of the seasonal April 1 average and 45 percent of the March 1 average. Last year at this time the pack was holding less than 38.7 inches of water.

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



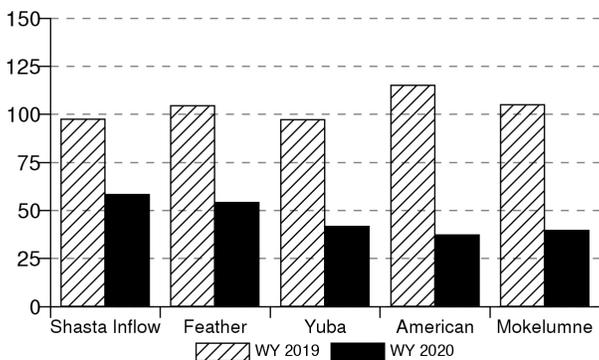
**PRECIPITATION** Seasonal precipitation (October 1 through to the end of February) on this area was 50 percent of normal. Precipitation last month was about 0 percent of the monthly average. Seasonal precipitation at this time last year stood at 135 percent of normal.

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



**RESERVOIR STORAGE** First of the month storage at 43 reservoirs was 11.22 million 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 115 percent of average.

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

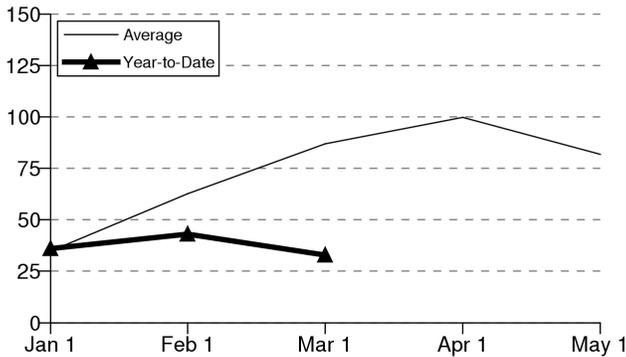


**RUNOFF** Seasonal runoff of streams draining this area totaled 3.94 million acre-feet which is 50 percent of average. Last year, runoff for the same period was 105 percent of average.

The **Sacramento Region 40-30-30 Water Supply Index** is forecast to be 5.9 assuming median meteorological conditions for the remainder of the year. This classifies the year as "Dry" in the Sacramento Valley according to the State Water Resources Control Board.

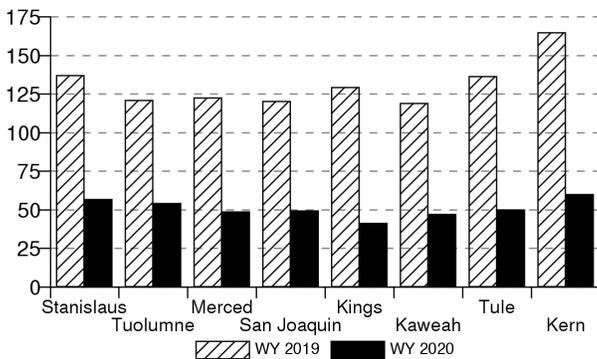
# SAN JOAQUIN RIVER AND TULARE LAKE REGIONS

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



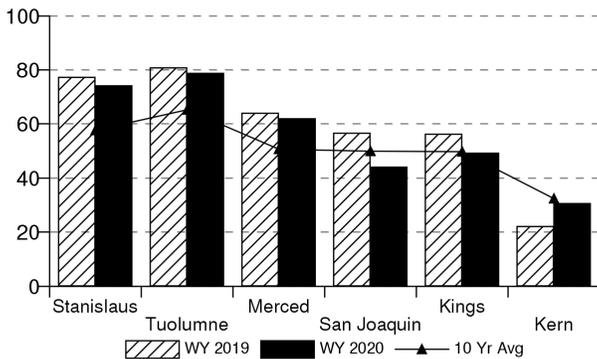
**SNOWPACK** - First of the month measurements made at 64 **San Joaquin Region** snow courses indicate an area wide snow water equivalent of less than 11.2 inches. This is 35 percent of the seasonal April 1 average and 40 percent of the March 1 average. Last year this time the pack was holding less than 42.1 inches of water. At the same time 40 **Tulare Lake** snow courses indicate a basin-wide snow water equivalent of less than 9.6 inches. This is 40 percent of the seasonal April 1 average and 45 percent of the March 1 average. Last year at this time the pack was holding less than 34.1 inches of water.

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



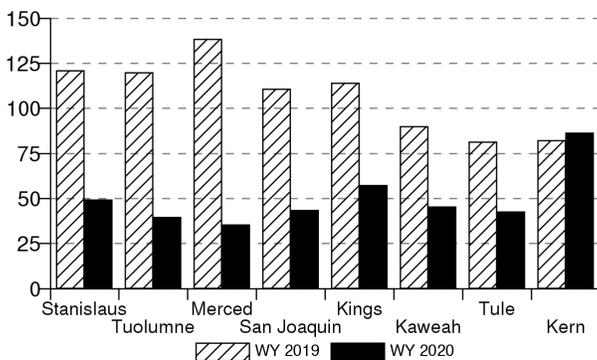
**PRECIPITATION** - Seasonal precipitation (October 1 through to the end of February) on the **San Joaquin Region** was 55 percent of normal. Precipitation last month was about 5 percent of the monthly average. Seasonal precipitation at this time last year stood at 130 percent of normal. Seasonal precipitation (October 1 through to the end of February) on the **Tulare Lake Region** was 50 percent of normal. Precipitation last month was about 10 percent of the monthly average. Seasonal precipitation at this time last year stood at 135 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 7.83 million acre-feet which is 110 percent of average. About 70 percent of available capacity was being used. Storage in these reservoirs at this time last year was 125 percent of average. First of the month storage in 6 **Tulare Lake Region** reservoirs was 805 thousand acre-feet which is 95 percent of average. About 40 percent of available capacity was being used. Storage in these reservoirs at this time last year was 95 percent of average.

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

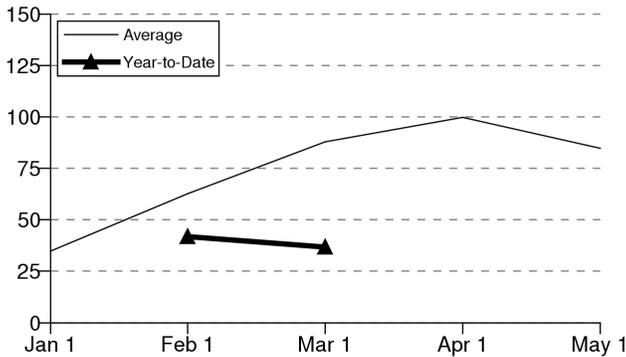


**RUNOFF** - Seasonal runoff of streams draining the **San Joaquin Region** totaled 666 thousand acre-feet which is 40 percent of average. Last year, runoff for the same period was 120 percent of average. Seasonal runoff of streams draining the **Tulare Lake Region** area totaled 359 thousand acre-feet which is 60 percent of average. Last year, runoff for the same period was 100 percent of average.

The **San Joaquin Region 60-20-20 Water Supply Index** is forecast to be 1.9 assuming at the 75 percent exceedance level. This classifies the year as "Critical" in the San Joaquin according to the State Water Resources Control Board.

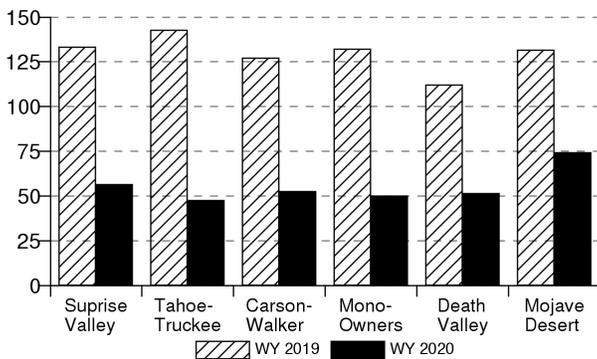
# NORTH AND SOUTH LAHONTAN REGIONS

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



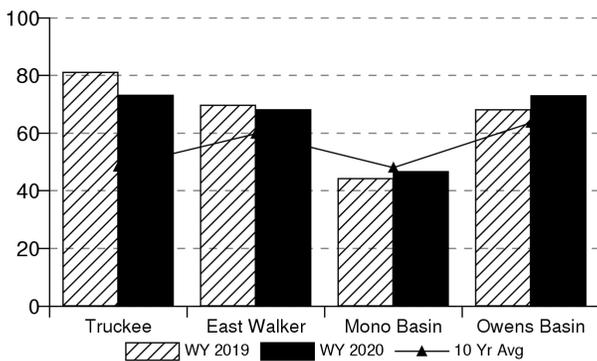
**SNOWPACK** First of the month measurements made at 11 **North Lahontan Region** snow courses indicate an area wide snow water equivalent of less than 12.0 inches. This is 35 percent of the seasonal April 1 average and 40 percent of the March 1 average. Last year this time the pack was holding less than 33.9 inches of water. At the same time 19 **South Lahontan Region** snow courses indicate a basin-wide snow water equivalent of less than 8.1 inches. This is 40 percent of the seasonal April 1 average and 50 percent of the March 1 average. Last year at this time the pack was holding less than 29.6 inches of water.

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



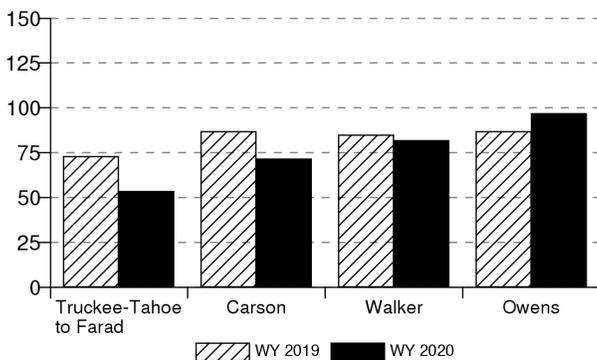
**PRECIPITATION** Seasonal precipitation (October 1 through to the end of February) on the **North Lahontan Region** was 50 percent of normal. Precipitation last month was about 5 percent of the monthly average. Seasonal precipitation at this time last year stood at 140 percent of normal. Seasonal precipitation (October 1 through to the end of February) on the **South Lahontan Region** was 60 percent of normal. Precipitation last month was about 10 percent of the monthly average. Seasonal precipitation at this time last year stood at 125 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 783 thousand acre-feet which is 150 percent of average. About 75 percent of available capacity was being used. Storage in these reservoirs at this time last year was 165 percent of average. First of the month storage in 8 **South Lahontan Region** reservoirs was 286 thousand acre-feet which is 105 percent of average. About 70 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

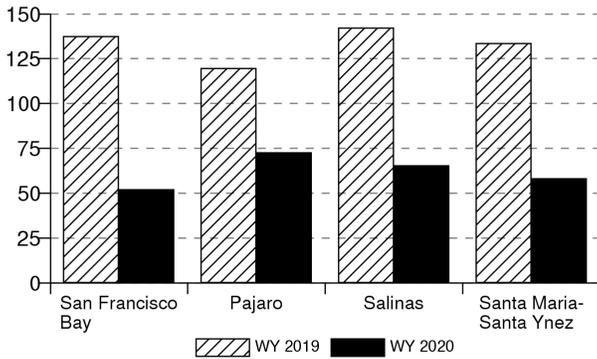


**RUNOFF** Seasonal runoff of streams draining the **North Lahontan Region** totaled 128 thousand acre-feet which is 65 percent of average. Last year, runoff for the same period was 80 percent of average. Seasonal runoff of streams draining the **South Lahontan Region** area totaled 52 thousand acre-feet which is 95 percent of average. Last year, runoff for the same period was 85 percent of average.

# SAN FRANCISCO BAY AND CENTRAL COAST REGIONS

## Precipitation

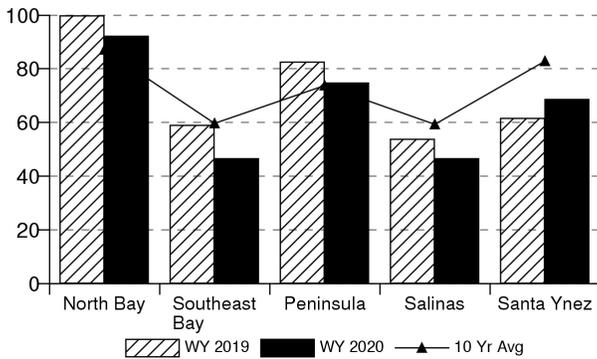
October 1 to date in % of average



**PRECIPITATION** Seasonal precipitation (October 1 through to the end of February) on the **San Francisco Bay Region** was 50 percent of normal. Precipitation last month was about 0 percent of the monthly average. Seasonal precipitation at this time last year stood at 140 percent of normal. Seasonal precipitation (October 1 through to the end of February) on the **Central Coast Region** was 65 percent of normal. Precipitation last month was about 0 percent of the monthly average. Seasonal precipitation at this time last year stood at 140 percent of normal.

## Reservoir Storage

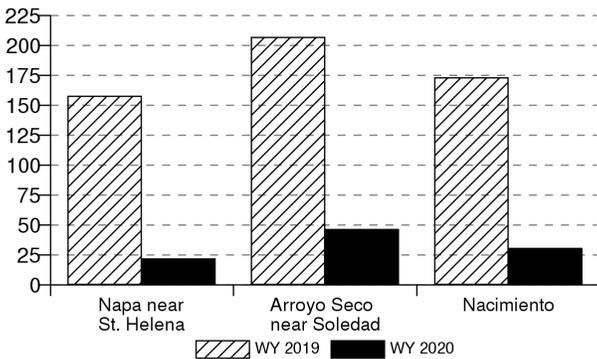
Contents of major reservoirs in % of capacity



**RESERVOIR STORAGE** First of the month storage in 17 **San Francisco Region** reservoirs was 458 thousand acre-feet which is 90 percent of average. About 65 percent of available capacity was being used. Storage in these reservoirs at this time last year was 105 percent of average. First of the month storage in 6 **Central Coast Region** reservoirs was 516 thousand acre-feet which is 80 percent of average. About 55 percent of available capacity was being used. Storage in these reservoirs at this time last year was 85 percent of average.

## Runoff

October 1 to date in % of average



**RUNOFF** Seasonal runoff of streams draining the **San Francisco Region** totaled 11 thousand acre-feet which is 20 percent of average. Last year, runoff for the same period was 160 percent of average. Seasonal runoff of streams draining the **Central Coast Region** area totaled 73 thousand acre-feet which is 35 percent of average. Last year, runoff for the same period was 185 percent of average.

## SOUTH COAST REGION

**PRECIPITATION** - October through February seasonal precipitation on the South Coast Region is 75 percent of normal. February precipitation was 10 percent of the monthly average. Seasonal precipitation at this time last year was 160 percent of normal.

**RESERVOIR STORAGE** - First of the month storage in 29 reservoirs was 1.29 million acre-feet which is 90 percent of average. About 61 percent of available capacity was being used. Storage in these reservoirs at this time last year was 97 percent of average.

**RUNOFF** - Seasonal runoff of streams draining this area totaled 16.8 thousand acre-feet which is 18 percent of average. Last year, runoff for the same period was 215 percent of average.

## COLORADO RIVER REGION

**SNOWPACK** - The March 1 snowpack in the Colorado River basin above Lake Powell is 105 percent of average, highest in the Upper Colorado River Headwaters at 125 percent of average and lowest in the Dolores and San Miguel River basins at 90 percent of average.

**PRECIPITATION** - Seasonal precipitation (October 1 through to the end of February) on the **Colorado River Region** was 105 percent of average. Precipitation last month was about 25 percent of the monthly average. Seasonal precipitation at this time last year stood at 185 percent of average.

**RESERVOIR STORAGE** - First of the month storage at 4 reservoirs was 25.6 million acre-feet which is 65 percent of average. About 50 percent of available capacity was being used. Storage in these reservoirs at this time last year was 60 percent of average.

**RUNOFF** - The April-July inflow to Lake Powell is forecast to be 5.6 million acre-feet, which is 78 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 February			
			2019 1,000 AF	2020 1,000 AF	PERCENT AVERAGE	PERCENT CAPACITY
<b><i>STATE WATER PROJECT</i></b>						
Lake Oroville	3,538	2,469	2,188	2,252	91%	64%
San Luis Reservoir (SWP)	1,062	914	1,062	930	102%	88%
Lake Del Valle	77	35	39	26	74%	33%
Lake Silverwood	78	67	64	62	93%	79%
Pyramid Lake	180	163	156	155	95%	86%
Castaic Lake	325	277	260	254	92%	78%
Perris Lake	131	105	115	102	98%	78%
<b><i>CENTRAL VALLEY PROJECT</i></b>						
Trinity Lake	2,448	1,818	1,739	2,024	111%	83%
Lake Shasta	4,552	3,331	3,948	3,546	106%	78%
Whiskeytown Lake	241	207	247	205	99%	85%
Folsom Lake	977	537	598	447	83%	46%
New Melones Reservoir	2,400	1,470	2,005	1,930	131%	80%
Millerton Lake	521	335	366	283	85%	54%
San Luis Reservoir (CVP)	971	786	921	482	61%	50%
<b><i>COLORADO RIVER PROJECT</i></b>						
Lake Mead	26,159	19,321	10,682	11,405	59%	44%
Lake Powell	24,322	16,732	9,261	12,011	72%	49%
Lake Mohave	1,810	1,672	1,704	1,647	99%	91%
Lake Havasu	648	555	571	583	105%	90%
<b><i>EAST BAY MUNICIPAL UTILITY DISTRICT</i></b>						
Pardee Res	204	180	182	181	101%	89%
Camanche Reservoir	417	252	308	286	113%	68%
East Bay (4 res.)	159	130	128	127	98%	80%
<b><i>CITY AND COUNTY OF SAN FRANCISCO</i></b>						
Hetch-Hetchy Reservoir	360	171	298	242	141%	67%
Cherry Lake	268	155	212	222	143%	83%
Lake Eleanor	29	11	18	19	172%	67%
South Bay/Peninsula (4 res.)	238	166	172	167	100%	70%
<b><i>CITY OF LOS ANGELES (D.W.P.)</i></b>						
Lake Crowley	183	126	137	145	115%	79%
Grant Lake	48	28	27	26	95%	55%
Other Aqueduct Storage (6 res.)	100	61	62	67	111%	67%

# TELEMETERED SNOW WATER EQUIVALENTS

March 1, 2020

(AVERAGES BASED ON PERIOD RECORD)

BASIN NAME STATION NAME	ELEV	APRIL 1 AVERAGE	Mar 1	INCHES OF WATER EQUIVALENT		1 WEEK PREVIOUS
				PERCENT OF APRIL 1 AVERAGE	24 HRS PREVIOUS	
<b>TRINITY RIVER</b>						
Shimmy Lake	6400'	40.3	12.5	31.1	12.4	12.4
Crowder Flat	5100'	-	0.0	-	0.0	0.0
Highland Lakes	6030'	29.9	-	-	-	-
Mumbo Basin	5650'	22.4	3.1	13.9	3.4	7.1
Bonanza King	6450'	40.5	18.6	45.9	19.0	19.6
Red Rock Mountain	6700'	39.6	21.4	53.9	20.9	22.0
Big Flat	5100'	15.8	9.6	60.8	9.7	9.8
Scott Mountain	5900'	16.0	1.8	11.3	2.0	3.8
Peterson Flat	7150'	29.2	9.1	31.2	9.7	10.0
Middle Boulder 3	6200'	28.3	16.6	58.8	16.9	15.2
<b>SACRAMENTO RIVER</b>						
Blacks Mountain	7050'	12.7	-	-	-	-
Cedar Pass	7100'	18.1	12.5	69.1	12.3	12.5
Medicine Lake	6700'	32.6	15.1	46.4	15.1	14.6
Sand Flat	6750'	42.4	13.0	30.6	13.1	13.8
Slate Creek	5700'	29.0	0.8	2.9	1.1	2.5
Adin Mountain	6200'	13.6	9.0	66.2	9.2	8.4
Stouts Meadow	5400'	36.0	15.2	42.3	15.6	15.4
Snow Mountain	5950'	27.0	13.2	48.9	13.3	13.6
<b>FEATHER RIVER</b>						
Kettle Rock	7300'	25.5	14.4	56.5	14.4	15.0
Gold Lake	6750'	36.5	18.7	51.3	18.6	18.5
Bucks Lake	5750'	44.7	20.8	46.4	21.1	22.1
Harkness Flat	6200'	28.5	10.4	36.5	9.9	12.0
Four Trees	5150'	20.0	2.2	10.8	2.8	6.7
Humbug	6500'	28.0	22.2	79.3	22.6	24.4
Grizzly Ridge	6900'	29.7	13.2	44.4	13.2	13.7
Rattlesnake	6100'	14.0	1.8	12.9	2.4	5.4
Lower Lassen Peak	8250'	-	38.0	-	37.6	38.1
Pilot Peak	6800'	52.6	18.9	35.9	18.9	21.0
<b>EEL RIVER</b>						
Noel Spring	5100'	-	0.0	-	0.0	0.0
<b>YUBA &amp; AMERICAN RIVERS</b>						
Carson Pass	8353'	-	15.5	-	15.2	16.4
Lake Lois	8600'	39.5	-	-	-	-
Forni Ridge	7600'	37.0	17.7	47.7	18.0	20.3
Silver Lake	7100'	22.7	12.2	53.9	12.5	14.3
Blue Canyon	5280'	9.0	0.4	4.8	0.3	2.8
Schneiders	8750'	34.5	21.1	61.2	22.0	24.4
Meadow Lake	7200'	55.5	21.5	38.7	21.6	-
Robbs Powerhouse	5150'	5.2	1.6	30.8	1.8	2.7
Robinson Cow Camp	6480'	-	-	-	-	-
Cent Sierra Snow Lab	6900'	33.6	13.8	41.1	14.1	16.1
Caples Lake	8000'	30.9	15.8	51.3	16.0	17.3
Alpha	7600'	35.9	14.5	40.3	14.6	17.3
Robbs Saddle	5900'	21.4	1.8	8.6	2.4	4.0
Huysink	6600'	42.6	16.4	38.6	16.2	16.6
Van Vleck	6700'	35.9	-	-	19.9	19.9
Greek Store	5600'	21.0	-	-	-	-
<b>MOKELUMNE &amp; STANISLAUS RIVERS</b>						
Highland Meadow	8700'	47.9	17.0	35.6	16.6	16.2
Gianelli Meadow	8400'	55.5	18.6	33.5	18.6	18.7
Bloods Creek	7200'	35.5	16.0	45.2	16.2	16.2
Blue Lakes	8000'	33.1	15.3	46.1	15.3	15.7
Mud Lake	7900'	44.9	-	-	-	-
Black Springs	6500'	32.0	16.2	50.6	16.3	16.6
Stanislaus Meadow	7750'	47.5	21.1	44.4	21.3	21.9
Deadman Creek	9250'	37.2	6.8	18.2	6.8	6.8
Lower Relief Valley	8100'	41.2	-	-	-	-
<b>TUOLUMNE &amp; MERCED RIVERS</b>						
Dana Meadows	9800'	27.7	9.9	35.6	9.7	11.3
Horse Meadow	8400'	48.6	19.3	39.7	18.8	19.4
Tuolumne Meadows	8600'	22.6	4.7	20.9	4.8	6.7
Slide Canyon	9200'	41.1	13.2	32.2	12.9	12.9
Ostrander Lake	8200'	34.8	13.4	38.5	13.3	15.2
Gin Flat	7050'	34.2	7.6	22.3	8.2	10.5
Tenaya Lake	8150'	33.1	12.1	36.6	11.9	11.9
White Wolf	7900'	-	-	-	-	-
Lower Kibbie Ridge	6700'	27.4	0.6	2.3	0.4	0.6
Paradise Meadow	7650'	41.3	16.6	40.1	16.3	16.0

**SAN JOAQUIN RIVER**

Volcanic Knob	10050'	30.1	12.5	41.4	12.1	12.0
Tamarack Summit	7550'	30.5	-	-	-	-
Kaiser Point	9200'	37.8	11.7	30.8	11.5	11.1
Huntington Lake	7000'	20.1	9.2	45.6	9.3	8.8
Green Mountain	7900'	30.8	5.2	16.8	5.5	9.0
Poison Ridge	6900'	28.9	1.8	6.1	2.8	7.6
Graveyard Meadow	6900'	18.8	4.2	22.6	4.4	6.0
Agnew Pass	9450'	32.3	-	-	-	-
Devils Postpile	7569'	-	0.0	-	0.0	1.2
Chilkoot Meadow	7150'	38.0	11.4	29.9	11.7	12.5

**KINGS RIVER**

Bishop Pass	11200'	34.0	-	-	-	-
Blackcap Basin	10300'	34.3	13.2	38.5	12.8	12.8
Mitchell Meadow	9900'	32.9	14.8	44.8	14.8	14.4
Upper Burnt Corral	9700'	34.6	13.0	37.7	12.6	12.3
State Lakes	10300'	29.0	13.4	46.1	13.5	13.3
West Woodchuck Meadow	9100'	32.8	11.1	33.8	11.2	12.8
Big Meadows	7600'	25.9	-	-	-	-
Charlotte Lake	10400'	27.5	13.7	49.8	13.6	13.3

**KAWEAH & TULE RIVERS**

Farewell Gap	9500'	34.5	-	-	-	-
Giant Forest	6650'	10.0	0.5	5.4	0.6	0.7
Quaking Aspen	7200'	21.0	6.3	30.0	6.9	8.8

**KERN RIVER**

Tunnel Guard Station	8900'	15.6	-	-	-	-
Beach Meadows	7650'	11.0	0.2	1.9	0.2	0.6
Upper Tyndall Creek	11400'	27.7	10.9	39.2	10.9	10.7
Casa Vieja Meadows	8300'	20.9	8.7	41.6	8.9	9.3
Pascoes	9150'	24.9	12.7	50.8	12.7	12.6
Wet Meadows	8950'	30.3	8.5	28.0	8.9	9.8
Chagoopa Plateau	10300'	21.8	8.6	39.5	8.7	9.1
Crabtree Meadow	10700'	19.8	6.2	31.4	6.1	6.1

**SURPRISE VALLEY AREA**

Dismal Swamp	7050'	29.2	25.3	86.6	25.5	25.6
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**TRUCKEE RIVER**

Independence Camp	7000'	21.8	9.6	44.0	10.3	11.3
Independence Lake	8450'	41.4	16.7	40.4	16.7	16.6
Squaw Valley Gold Coast	8200'	46.5	16.2	34.8	16.4	18.3
Truckee 2	6400'	14.3	9.3	65.0	9.2	9.0
Independence Creek	6500'	12.7	4.1	32.3	4.8	5.8
Big Meadows	8700'	25.7	9.8	38.1	9.9	10.3

**LAKE TAHOE BASIN**

Rubicon Peak 2	7500'	29.1	11.8	40.5	11.7	12.5
Tahoe City Cross	6750'	16.0	0.3	1.9	-	4.1
Echo Peak 5	7800'	39.5	18.3	46.3	18.1	20.1
Hagans Meadow	8000'	16.5	7.2	43.6	7.6	8.8
Fallen Leaf Lake	6250'	7.0	0.1	1.4	0.1	0.9
Ward Creek 3	6750'	39.4	18.1	45.9	17.8	18.1
Mount Rose Ski Area	8900'	38.5	18.5	48.1	18.4	18.2
Heavenly Valley	8800'	28.1	9.5	33.8	9.6	9.6
Marlette Lake	8000'	21.1	11.4	54.0	11.2	11.3

**CARSON RIVER**

Spratt Creek	6150'	4.5	0.1	2.2	0.1	1.5
Horse Meadow	8400'	48.6	19.3	39.7	18.8	19.4
Burnside Lake	8129'	-	13.5	-	13.6	14.3
Monitor Pass	8350'	-	7.5	-	7.7	7.5
Poison Flat	7900'	16.2	9.4	58.0	9.5	10.0
Forestdale Creek	8017'	-	17.5	-	17.5	18.6
Ebbetts Pass	8700'	38.8	17.1	44.1	17.0	17.3

**WALKER RIVER**

Sonora Pass Bridge	8750'	26.0	8.5	32.7	8.4	8.4
Virginia Lakes Ridge	9300'	20.3	5.4	26.6	5.3	5.3
Lobdell Lake	9200'	17.3	4.6	26.6	4.6	4.7
Summit Meadow	9313'	-	8.4	-	8.4	8.2
Leavitt Meadows	7200'	8.0	1.2	15.0	1.8	4.1
Leavitt Lake	9600'	-	23.2	-	22.7	22.7

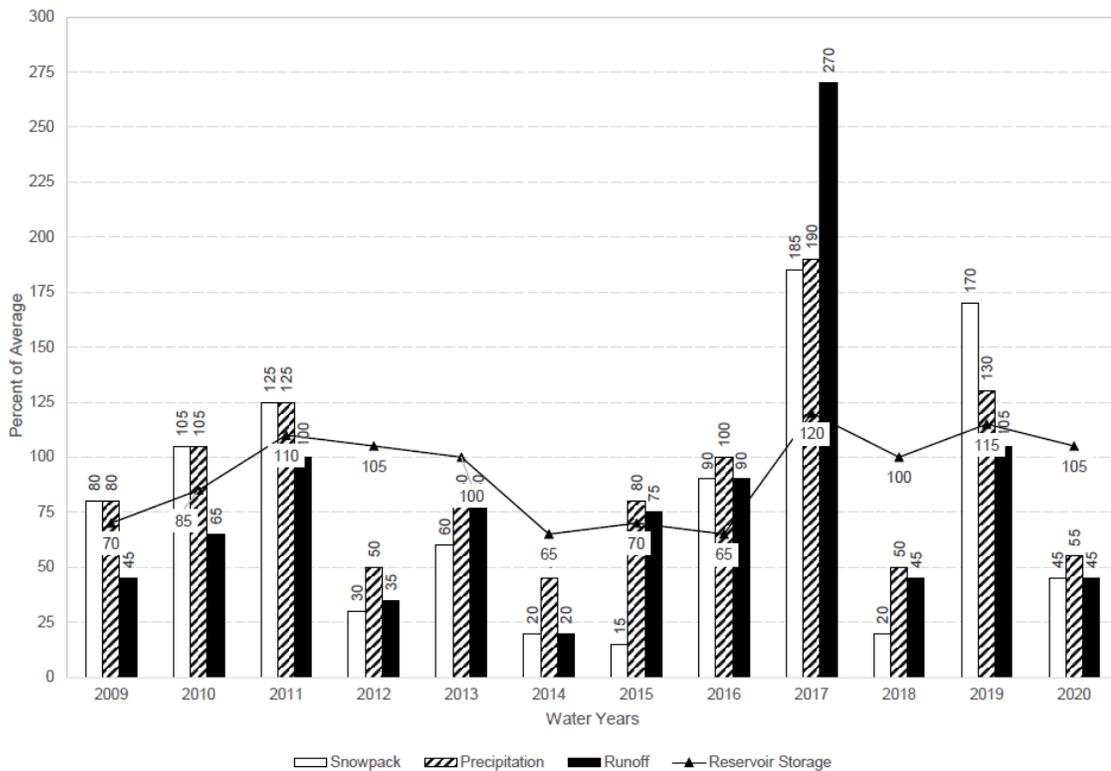
**OWENS RIVER/MONO LAKE**

Cottonwood Lakes	10150'	11.6	8.5	73.6	8.4	8.6
Gem Pass	10750'	31.7	6.9	21.6	6.6	6.6
Rock Creek Lakes	9700'	14.0	5.4	38.4	5.8	5.9
South Lake	9600'	16.0	6.4	39.8	6.5	7.0
Big Pine Creek	9800'	17.9	-	-	-	-
Sawmill	10200'	19.4	7.8	40.2	7.5	7.8

**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%

## March 1 Statewide Conditions



## SNOWLINES

Registration is now open for the 88th annual Western Snow Conference to be held in Whistler, British Columbia, Canada on April 20-23, 2020. We expect a full agenda of informative and interesting presentations related to snow hydrology, meteorological measurement techniques, and water resource management.

Meeting Information:

<https://westernsnowconferenc>

[org/meeting/2020](https://westernsnowconferenc.org/meeting/2020) Online

Registration:

<https://docs.google.com/forms/d/e/1FAIpQLSd1X9N7TghsCGB01O-s-icESlz5YxdObGnf9R2ehUgAdTLJTg/viewform>

**Depicted** on this month's cover is a photo of the Tuolumne River above Glen Aulin in Yosemite National Park. This photo was taken on Saturday, February 29 (leap day), 2020, by Rob and Laura Pilewski, Tuolumne Meadows Winter Rangers.