

## Summary of Water Conditions May 1, 2016

April precipitation was more than last year but a bit less than average. Reservoir storage gained 2 million acre-feet during the month. The remaining snowpack at 55 percent is greatly improved over last year's measly 2 percent. The water supply outlook north of the Delta is good, but many areas and reservoirs in the south remain short.

**Forecasts** of median April through July and water year runoff remain near the same or a few percent less than a month ago at 85 and 95 percent respectively. Water year runoff in the north is expected to be near normal but the southern Sierra is well below average.

**Snowpack** water content is now about 55 percent of normal for the date, down from a month ago but much better than the dismal 2 percent one year ago.

**Precipitation** from October through April has been about 110 percent of average compared to only 70 percent last year. The range is from about 120 percent in the north to 55 percent in the south. April saw about 90 percent of average rainfall, with the coastal south again driest.

**Runoff** so far this water year has been about 110 percent of average compared to 55 percent last year. Runoff during April was about 90 percent of average. Estimated runoff of the eight major rivers of the Sacramento-San Joaquin River region was 2.92 million acre-feet in April.

**Reservoir storage** is about 90 percent of average overall, up 5 percent from a month ago and much improved from 65 percent one year ago. Many northern California reservoirs are above their average for May 1.

### SUMMARY OF WATER CONDITIONS IN PERCENT OF AVERAGE

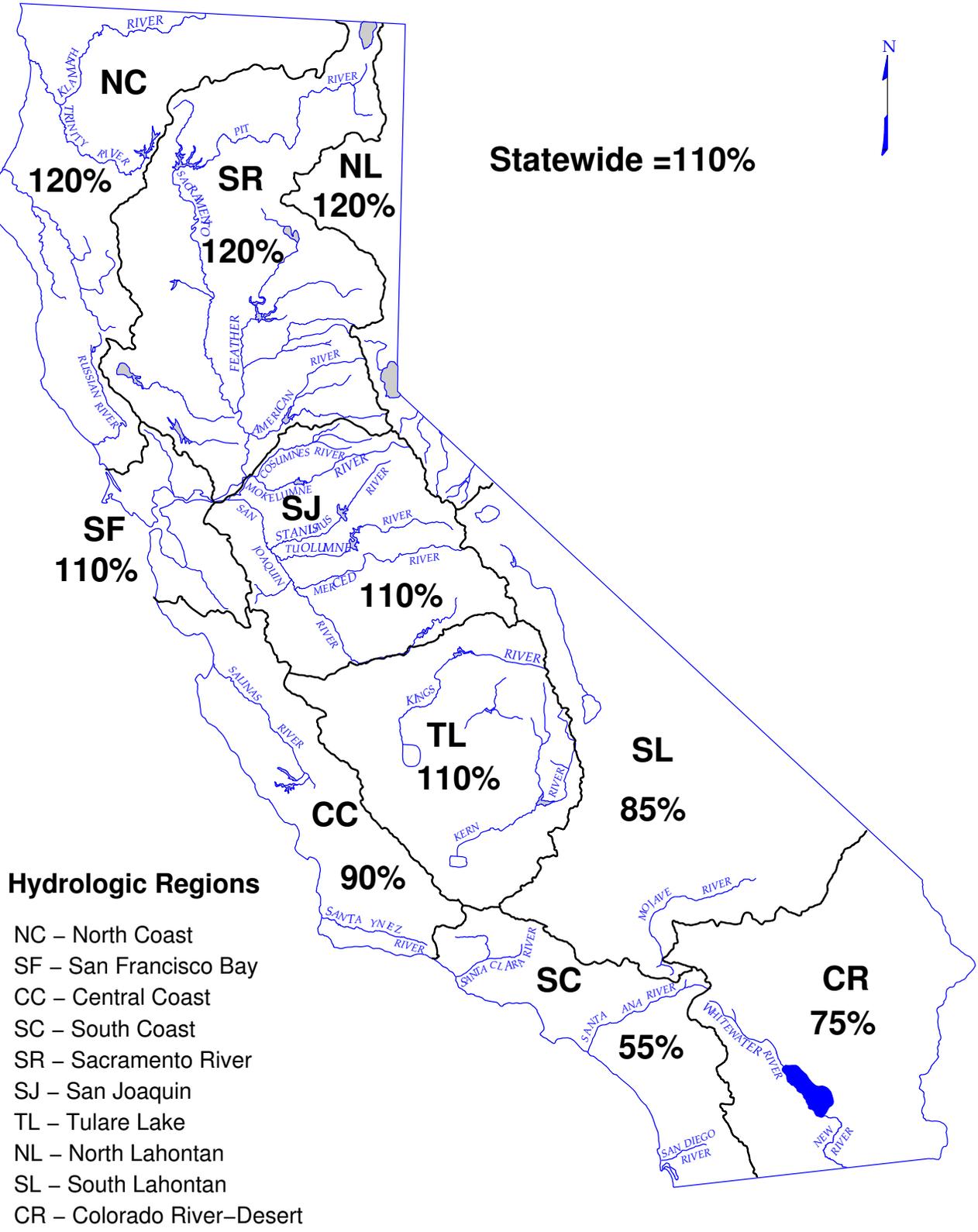
HYDROLOGIC REGION	PRECIPITATION OCTOBER 1 TO DATE	May 1 SNOW WATER CONTENT	May 1 RESERVOIR STORAGE	RUNOFF OCTOBER 1 TO DATE	APR-JULY RUNOFF FORECAST	WATER YEAR RUNOFF FORECAST
NORTH COAST	120	55	80	120	100	115
SAN FRANCISCO BAY	110	--	95	75	--	--
CENTRAL COAST	90	--	30	45	--	--
SOUTH COAST	55	--	65	25	--	--
SACRAMENTO RIVER	120	50	105	105	85	100
SAN JOAQUIN RIVER	110	60	75	105	85	90
TULARE LAKE	110	50	85	75	65	65
NORTH LAHONTAN	120	50	30	110	90	95
SOUTH LAHONTAN	85	55	90	50	70	65
COLORADO RIVER- DESERT	75	--	--	--	--	--
<b>STATEWIDE</b>	110	55	90	110	85	95

# DEPARTMENT OF WATER RESOURCES

## CALIFORNIA COOPERATIVE SNOW SURVEYS

### SEASONAL PRECIPITATION

IN PERCENT OF AVERAGE TO DATE  
 October 1, 2015 through April 30, 2016



#### Hydrologic Regions

- NC – North Coast
- SF – San Francisco Bay
- CC – Central Coast
- SC – South Coast
- SR – Sacramento River
- SJ – San Joaquin
- TL – Tulare Lake
- NL – North Lahontan
- SL – South Lahontan
- CR – Colorado River-Desert

WATER YEAR IS OCTOBER 1 THROUGH SEPTEMBER 30

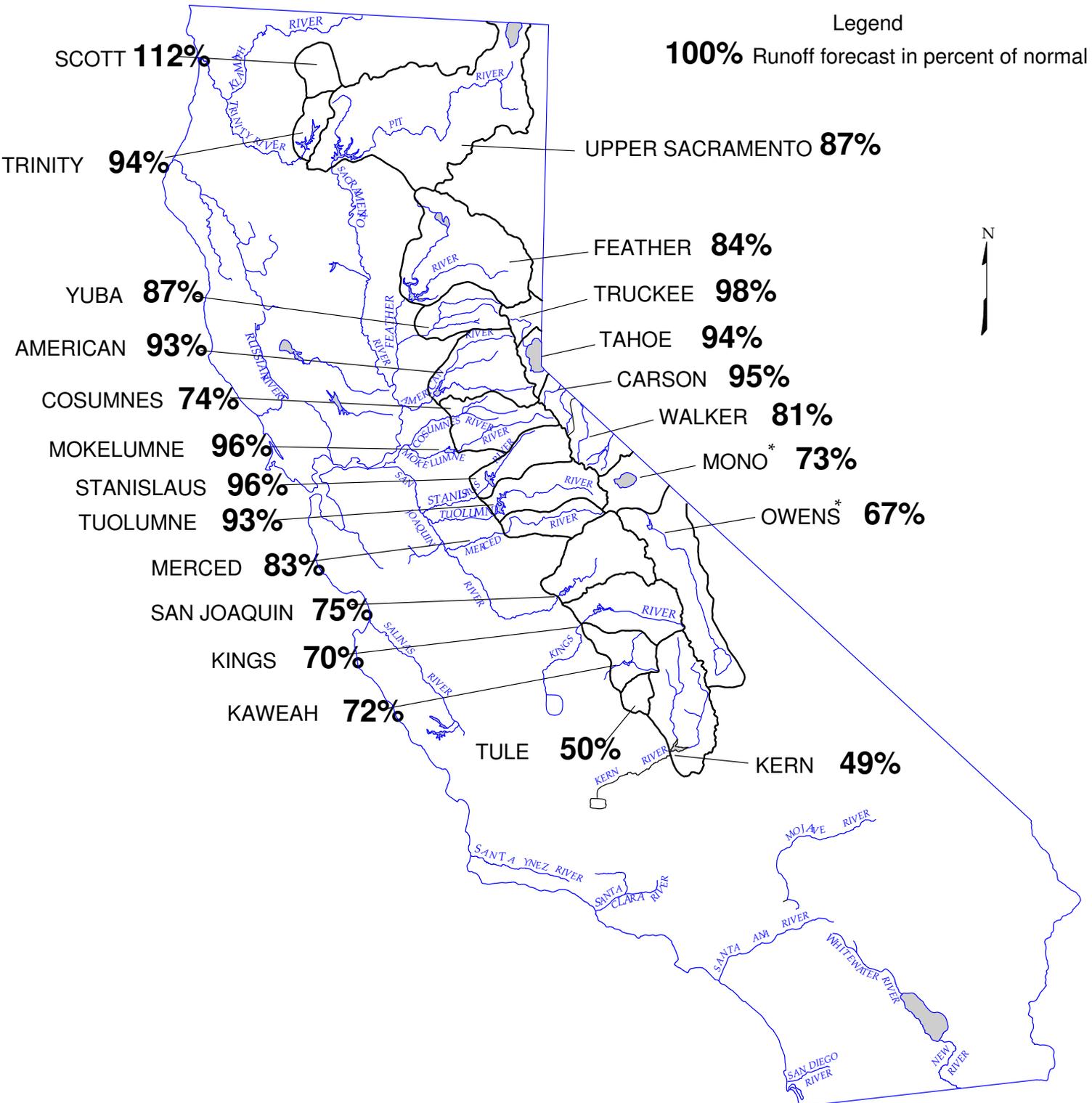
# DEPARTMENT OF WATER RESOURCES

## CALIFORNIA COOPERATIVE SNOW SURVEYS

### FORECAST OF APRIL – JULY

### UNIMPAIRED SNOWMELT RUNOFF

May 1, 2016



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

**MAY 1, 2016 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 (11)	Apr-Jul Forecasts	Pct of Avg	80 % Probability Range (1)
<b>North Coast</b>						
Trinity River at Lewiston Lake	651	1,593	80	<b>610</b>	94%	510 - 770
<b>SACRAMENTO RIVER</b>						
<b>Upper Sacramento River</b>						
Sacramento River at Delta above Shasta Lake	302	751	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	950	91%	
Total Inflow to Shasta Lake	1,806	3,525	711	<b>1,570</b>	87%	1,340 - 1,970
<b>Sacramento River above Bend Bridge, near Red Bluff</b>	<b>2,485</b>	<b>5,117</b>	<b>943</b>	<b>2,150</b>	<b>87%</b>	<b>1,850 - 2,680</b>
<b>Feather River</b>						
Feather River at Lake Almanor near Prattville (3)	333	675	120	290	87%	
North Fork at Pulga (3)	1,028	2,416	243	870	85%	
Middle Fork near Clio (4)	86	518	4	70	81%	
South Fork at Ponderosa Dam (3)	110	267	13	90	82%	
Feather River at Oroville	1,758	4,676	378	<b>1,470</b>	84%	1,200 - 1,880
<b>Yuba River</b>						
North Yuba below Goodyears Bar	279	647	51	240	86%	
Inflow to Jackson Mdws and Bowman Reservoirs (3)	112	236	25	100	89%	
South Yuba at Langs Crossing (3)	233	481	57	200	86%	
Yuba River near Smartsville plus Deer Creek	996	2,424	155	<b>870</b>	87%	730 - 1,020
<b>American River</b>						
North Fork at North Fork Dam (3)	262	716	43	250	95%	
Middle Fork near Auburn (3)	522	1,406	100	480	92%	
Silver Creek Below Camino Diversion Dam (3)	173	386	37	160	92%	
American River below Folsom Lake	1,231	3,074	185	<b>1,150</b>	93%	980 - 1,350
<b>SAN JOAQUIN RIVER</b>						
<b>Cosumnes River at Michigan Bar</b>	<b>128</b>	<b>446</b>	<b>8</b>	<b>95</b>	74%	60 - 145
<b>Mokelumne River</b>						
North Fork near West Point (5)	437	829	104	410	94%	
Total Inflow to Pardee Reservoir	468	1,076	75	<b>450</b>	96%	410 - 500
<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)	699	1,710	116	<b>670</b>	96%	580 - 770
<b>Tuolumne River</b>						
Cherry Creek & Eleanor Creek near Hetch Hetchy	315	727	97	280	89%	
Tuolumne River near Hetch Hetchy	604	1,392	153	570	94%	
Tuolumne River below La Grange Reservoir (9)	1,221	2,682	301	<b>1,140</b>	93%	1,040 - 1,310
<b>Merced River</b>						
Merced River at Pohono Bridge	372	888	80	320	86%	
Merced River below Merced Falls (9)	636	1,587	104	<b>530</b>	83%	470 - 640
<b>San Joaquin River</b>						
San Joaquin River at Mammoth Pool (7)	1,026	2,279	235	770	75%	
Big Creek below Huntington Lake (8)	91	264	11	65	71%	
South Fork near Florence Lake (7)	201	511	58	150	75%	
San Joaquin River inflow to Millerton Lake	1,258	3,355	193	<b>940</b>	75%	790 - 1,110
<b>TULARE LAKE</b>						
<b>Kings River</b>						
North Fork Kings River near Cliff Camp (3)	239	565	50	170	71%	
Kings River below Pine Flat Reservoir	1,236	3,113	208	<b>860</b>	70%	760 - 980
<b>Kaweah River below Terminus Reservoir</b>						
	290	814	42	<b>210</b>	72%	175 - 270
<b>Tule River below Lake Success</b>						
	64	259	1	<b>32</b>	50%	25 - 54
<b>Kern River</b>						
Kern River near Kernville	384	1,203	83	190	49%	
Kern River inflow to Lake Isabella	465	1,657	57	<b>230</b>	49%	190 - 300

(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

**MAY 1, 2016 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 (11)	Oct Thru Jan	Feb *	Mar *	Apr *	May	Jun	Jul	Aug	Sep	Water Year Forecasts	Pct of Avg	80 % Probability Range (1)
1376	2990	200	300	181	447	259	230	95	26	10	7	<b>1,555</b>	113%	1,450 - 1,720
876	1,965	165												
1,200	2,353	557												
3,082	5,150	1,484												
5,979	10,796	2,479	1,631	562	1,647	485	530	320	235	209	206	<b>5,825</b>	97%	5,530 - 6,335
8,727	17,180	3,294	2,772	804	2,423	687	705	443	315	268	263	<b>8,680</b>	99%	8,305 - 9,345
780	1,269	366												
2,417	4,400	666												
219	637	24												
291	562	32												
4,523	9,492	994	1,032	434	1,511	543	550	250	127	97	81	<b>4,625</b>	102%	4,320 - 5,085
564	1,056	102												
181	292	30												
379	565	98												
2,329	4,926	369	564	203	816	328	375	132	35	19	18	<b>2,490</b>	107%	2,340 - 2,650
616	1,234	66												
1,070	2,575	144												
318	705	59												
2,683	6,382	349	581	285	812	422	490	195	43	13	9	<b>2,850</b>	106%	2,675 - 3,060
385	1,253	20	69	42	146	41	39	12	3	1	1	<b>354</b>	92%	318 - 405
626	1,009	197												
763	1,848	129	97	66	161	145	195	98	12	4	2	<b>780</b>	102%	738 - 840
471	929	88												
1,167	2,952	155	159	90	250	221	280	140	29	11	5	<b>1,185</b>	102%	1,090 - 1,290
461	1,147	123												
770	1,661	258												
1,943	4,631	383	298	144	342	319	450	315	56	15	6	<b>1,945</b>	100%	1,837 - 2,125
461	1,020	92												
1,007	2,787	150	120	59	170	173	215	115	27	8	3	<b>890</b>	88%	827 - 1,010
1,337	2,964	308												
112	298	14												
248	653	71												
1,831	4,642	327	126	81	184	232	365	255	88	30	14	<b>1,375</b>	75%	1,200 - 1,580
284	607	58												
1,729	4,287	359	110	78	147	226	340	220	74	23	12	<b>1,230</b>	71%	1,120 - 1,360
456	1,402	89	37	28	44	55	90	53	12	4	2	<b>325</b>	71%	288 - 390
147	615	10	24	16	17	12	14	5	1	0	0	<b>89</b>	61%	82 - 115
558	1,577	163												
733	2,318	130	51	26	38	48	83	70	29	15	10	<b>370</b>	50%	325 - 450

(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

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

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

**MAY 1, 2016 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)	173	398	22	<b>194</b>	112%
<b>Klamath River</b>					
Total inflow to Upper Klamath Lake (4)	340	618	84	<b>370</b>	109%
<hr/>					
<b>NORTH LAHONTAN</b>					
<b>Truckee River</b>					
Lake Tahoe to Farad accretions	256	713	46	<b>250</b>	98%
Lake Tahoe Rise (assuming gates closed, ft)	1.4	5.4	0.2	<b>1.3</b>	94%
<b>Carson River</b>					
West Fork Carson River at Woodfords	53	135	10	<b>49</b>	92%
East Fork Carson River near Gardnerville	186	407	43	<b>180</b>	97%
<b>Walker River</b>					
West Walker River below Little Walker, near Coleville	155	330	35	<b>135</b>	87%
East Walker River near Bridgeport	63	209	7	<b>42</b>	67%
<hr/>					
<b>SOUTH LAHONTAN</b>					
<b>Owens River</b>					
Total tributary flow to Owens River (5)	235	579	84	<b>158</b>	67%

(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 (1981-2010)

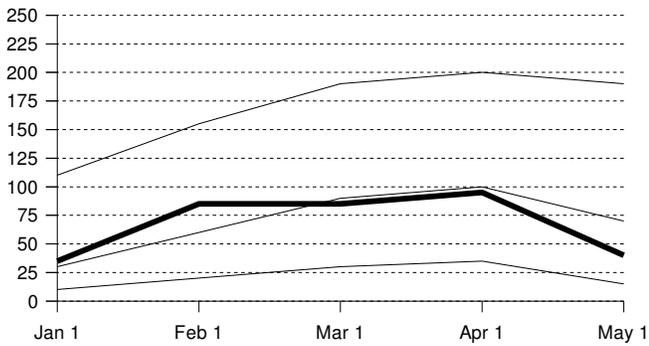
(4) Forecast by U.S. Natural Resources Conservation Service and National Weather Service California-Nevada River Forecast Center, May through September forecast, 30 year average based on years 1981-2010.

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

## NORTH COAST REGION

### Snowpack Accumulation

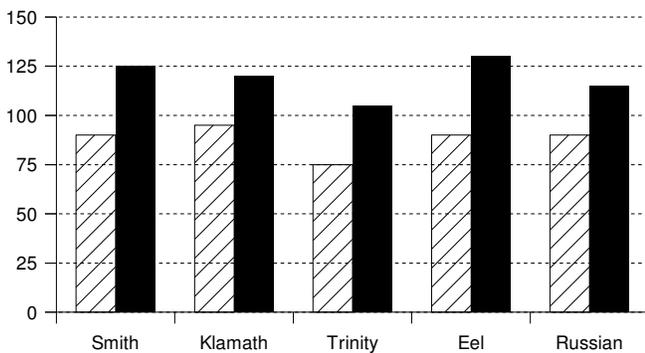
Water Content in % of April 1 Average



**SNOWPACK**- First of the month measurements made at 9 snow courses indicate an area wide snow water equivalent of less than 15.1 inch. This is 40 percent of the seasonal April 1 average and 55 percent of the May 1 average. Last year at this time the pack was holding less than 1 inch of water.

### Precipitation

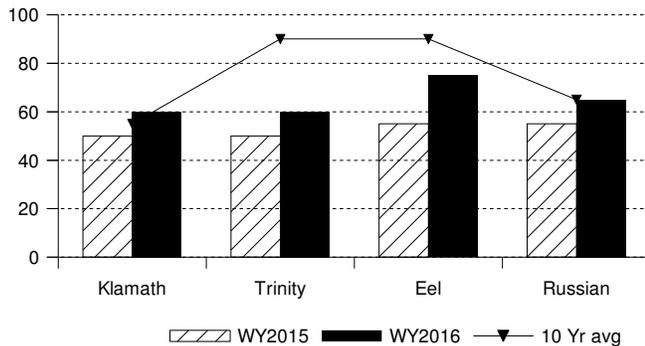
October 1 to date in % of Average



**PRECIPITATION** - Seasonal precipitation (October 1 through the end of last month) on this area was 120 percent of normal. Precipitation last month was about 80 percent of the monthly average. Seasonal precipitation at this time last year stood at 85 percent of normal.

### Reservoir Storage

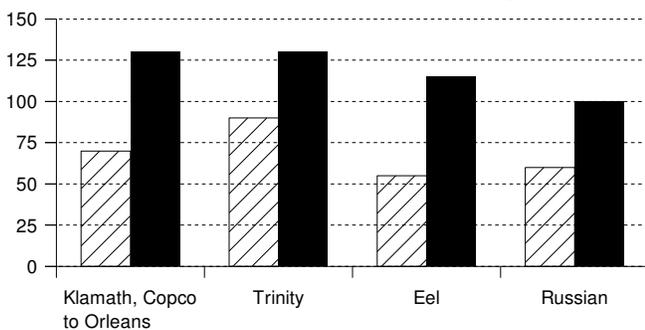
Contents of major reservoirs in % of capacity



**RESERVOIR STORAGE**- First of the month storage in 6 reservoirs was 1.9 million acre-feet which is 80 percent of average. About 60 percent of available capacity was being used. Storage in these reservoirs at this time last year was 60 percent of average.

### Runoff

October 1 to date in % of average



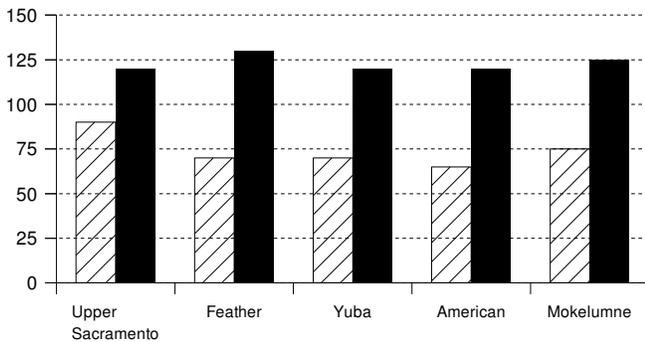
**RUNOFF** - Seasonal runoff of streams draining the area totaled 13.1 million acre-feet which is 120 percent of the average for this period. Last year, runoff for the same period was 65 percent of average.

## SACRAMENTO RIVER REGION

**SNOWPACK**- First of the month measurements made at 67 snow courses indicate an area wide snow water equivalent of 14.6 inches. This is 35 percent of the seasonal April 1 average and 50 percent of the May 1 average. Last year at this time the pack was holding 1.2 inches of water.

### Precipitation

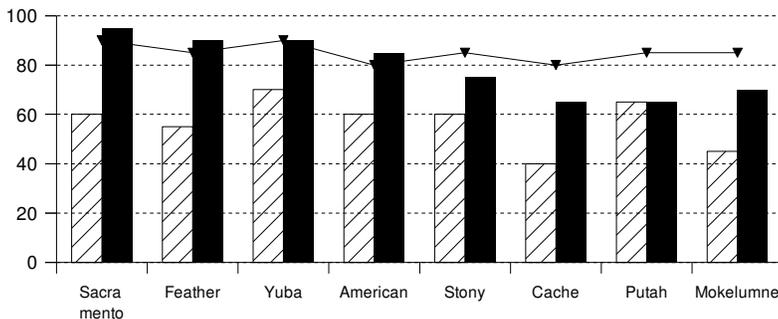
October 1 to date in % of Average



**PRECIPITATION** - Seasonal precipitation (October 1 through the end of last month) on this area was 120 percent of normal. Precipitation last month was about 85 percent of the monthly average. Seasonal precipitation at this time last year stood at 75 percent of normal.

### Reservoir Storage

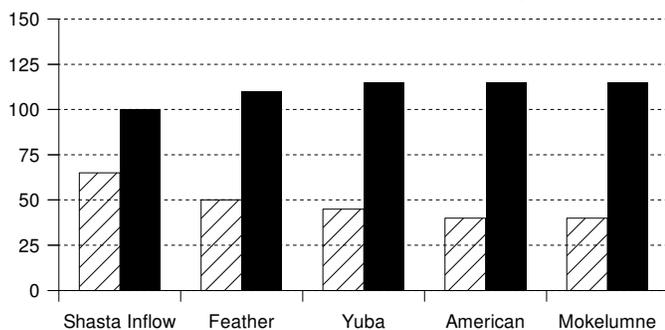
Contents of major reservoirs in % of capacity



**RESERVOIR STORAGE**- First of the month storage in 43 reservoirs was 14 million acre-feet which is 105 percent of average. About 85 percent of available capacity was being used. Storage in these reservoirs at this time last year was 75 percent of average.

### Runoff

October 1 to date in % of average



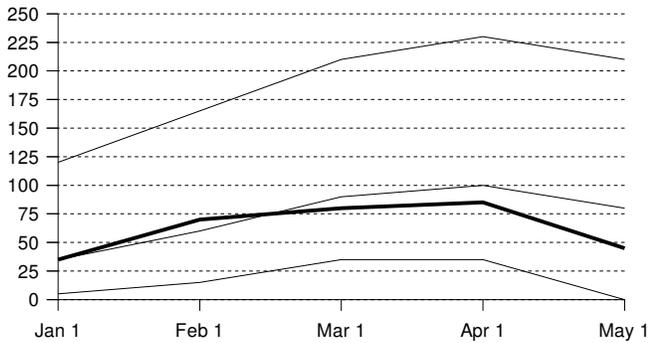
**RUNOFF** - Seasonal runoff of streams draining the area totaled 14.2 million acre-feet which is 105 percent of average for this period. Last year, runoff for the same period was 55 percent of average.

The **Sacramento Region 40-30-30 Water Supply Index** is forecast to be 7.1 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

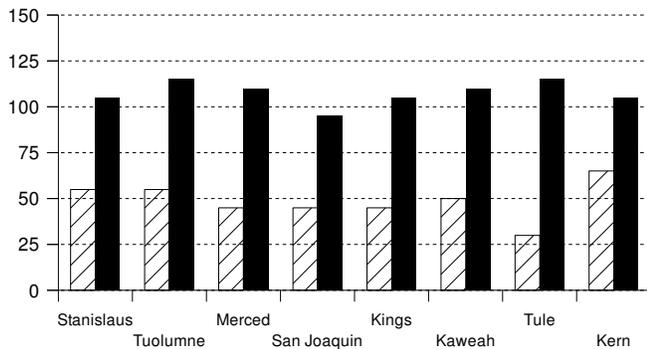
### Snowpack Accumulation

Water Content in % of April 1 Average



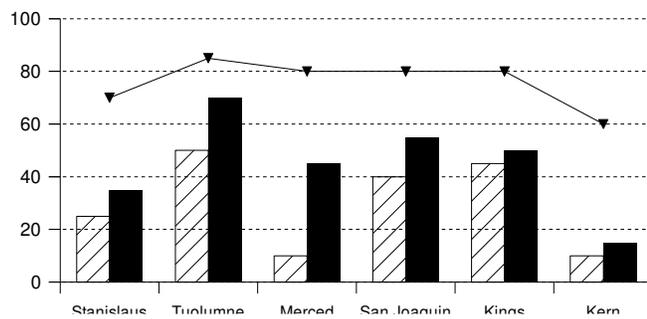
### Precipitation

October 1 to date in % of Average



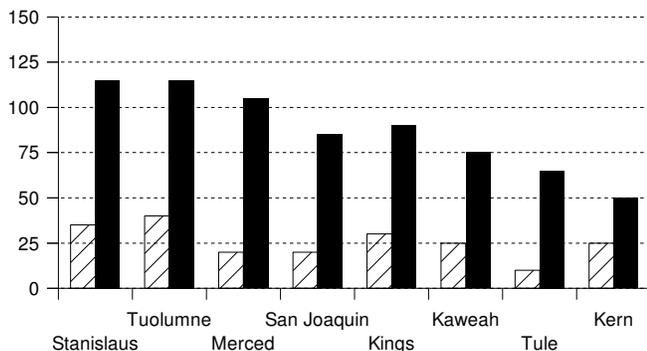
### Reservoir Storage

Contents of major reservoirs in % of capacity



### Runoff

October 1 to date in % of average



**SNOWPACK**- First of the month measurements made at 56 **San Joaquin Region** snow courses indicate an area wide snow water equivalent of 18.6 inches. This is 50 percent of the seasonal (April 1) average and 60 percent of the May 1 average. Last year at this time the pack was holding less than 1 inch of water. At the same time 37 **Tulare Lake Region** snow courses indicated a basin-wide snow water equivalent of 11.4 inches which is 40 percent of the average for April 1 and 50 percent of May 1. Last year at this time the basin was holding less than 1 inch of water.

**PRECIPITATION** - Seasonal precipitation (October 1 through the end of last month) on the **San Joaquin Region** was 110 percent of normal. Precipitation last month was about 95 percent of the monthly average. Seasonal precipitation at this time last year stood at 60 percent of normal. Seasonal precipitation on the **Tulare Lake Region** was 110 percent of normal. Precipitation last month was about 80 percent of the monthly average. Seasonal precipitation at this time last year stood at 50 percent of normal.

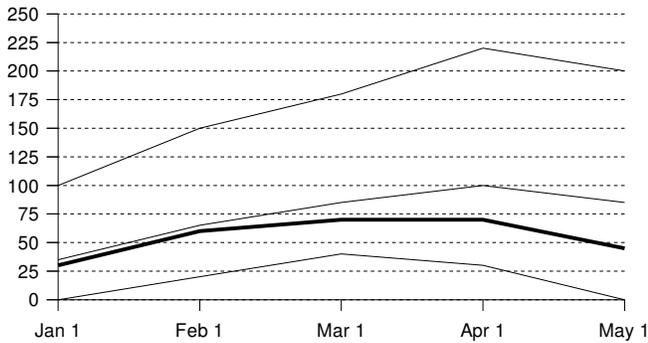
**RESERVOIR STORAGE**- First of the month storage in 34 **San Joaquin Region** reservoirs was 5.9 million acre-feet which is 75 percent of average. About 50 percent of available capacity was being used. Storage in these reservoirs at this time last year was 60 percent of average. First of the month storage in 6 **Tulare Lake Region** reservoirs was 906 thousand acre-feet which is 85 percent of average and about 45 percent of available capacity. Storage in these reservoirs at this time last year was 40 percent of average.

**RUNOFF**- Seasonal runoff of streams draining the **San Joaquin Region** totaled 3.7 million acre-feet which is 105 percent of average for this period. Last year, runoff for the same period was 30 percent of average. Seasonal runoff of streams draining the **Tulare Lake Basin** totaled 965 thousand acre-feet which is 75 percent of average for this period. Last year runoff for this same period was 25 percent of average. The **San Joaquin Region 60-20-20 Water Supply Index** is forecast to be 2.4 assuming 75 percent of median meteorological conditions. This classifies the year as "dry" in the San Joaquin River Region according to the State Water Resources Control Board.

## NORTH AND SOUTH LAHONTAN REGIONS

### Snowpack Accumulation

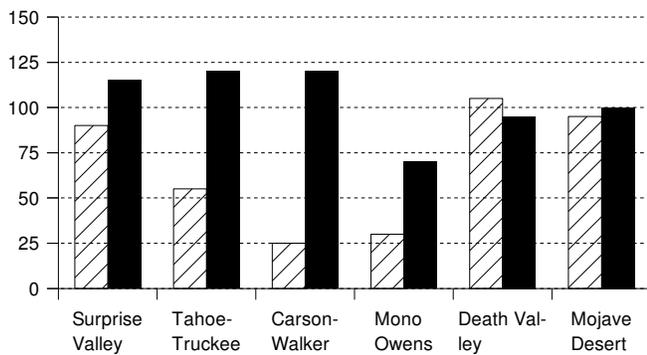
Water Content in % of April 1 Average



**SNOWPACK**- First of the month measurements made at 5 **North Lahontan Region** snow courses indicate an area wide snow water equivalent of 11 inches. This is 40 percent of the seasonal (April 1) average and 50 percent of the May 1 average. Last year at this time the pack was holding less than 1 inch of water. At the same time 4 **South Lahontan** snow courses indicated a basin-wide snow water equivalent of 9 inches which is 45 percent of the seasonal (April 1) average and 55 percent of the May 1 average. Last year at this time the basin was holding 0 inches of water.

### Precipitation

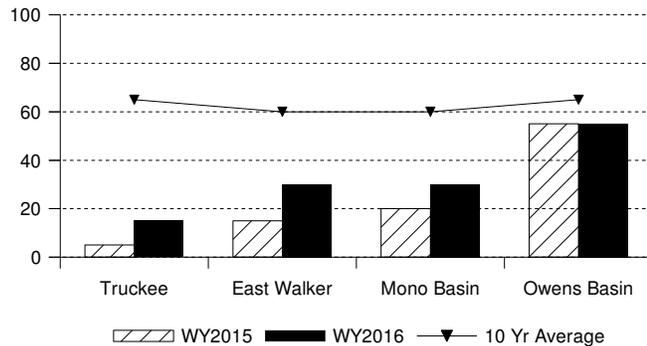
October 1 to date in % of Average



**PRECIPITATION** - Seasonal precipitation (October 1 through the end of last month) on the **North Lahontan Region** was 120 percent of normal. Precipitation last month was about 180 percent of the monthly average. Seasonal precipitation at this time last year stood at 55 percent of normal. Seasonal precipitation on the **South Lahontan** was 85 percent of normal. Precipitation last month was 200 percent of the monthly average. Seasonal precipitation at this time last year stood at 75 percent of normal.

### Reservoir Storage

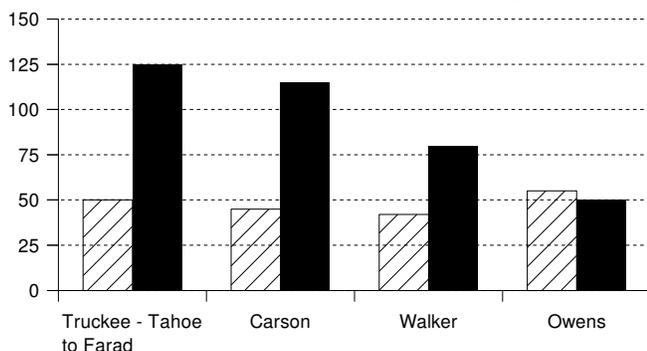
Contents of major reservoirs in % of capacity



**RESERVOIR STORAGE**- First of the month storage in 5 **North Lahontan** reservoirs was 181 thousand acre-feet which is 30 percent of average. About 15 percent of available capacity was being used. Storage in these reservoirs at this time last year was 10 percent of average. Lake Tahoe was .4 feet above its natural rim on May 1. First of the month storage in 8 **South Lahontan** reservoirs was 234 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 85 percent of average.

### Runoff

October 1 to date in % of average

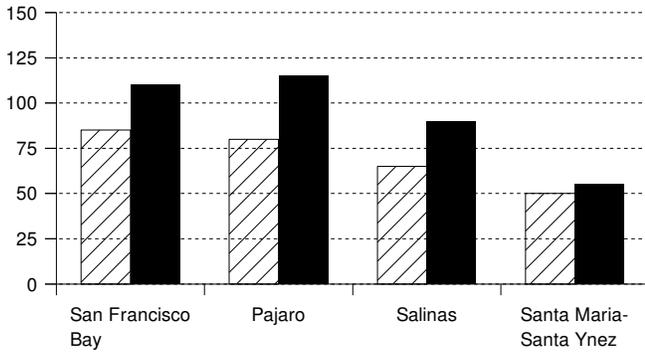


**RUNOFF**- Seasonal runoff of streams draining the **North Lahontan Region** totaled 479 thousand acre-feet which is 110 percent of average for this period. Last year, runoff for the same period was 45 percent of average. Seasonal runoff of the Owens River in the **South Lahontan** totaled 39 thousand acre-feet which is 50 percent of average for this period. Last year runoff for this same period was 55 percent of average.

## SAN FRANCISCO BAY AND CENTRAL COAST REGIONS

### Precipitation

October 1 to date in % of Average

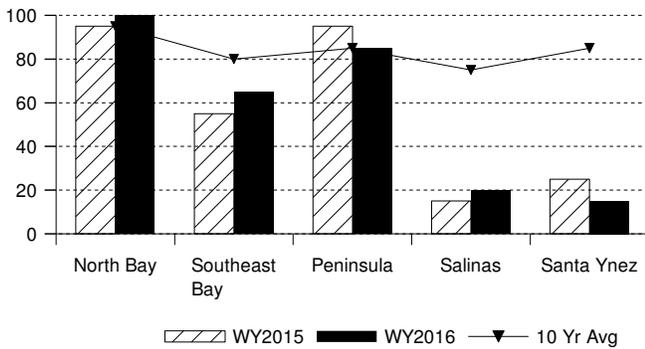


**PRECIPITATION** - Seasonal precipitation (October 1 through the end of last month) on the **San Francisco Bay Region** was 110 percent of normal. Precipitation last month was about 75 percent of the monthly average. Seasonal precipitation at this time last year stood at 85 percent of normal.

Seasonal precipitation on the **Central Coast Region** was 90 percent of normal. Precipitation last month was about 30 percent of the monthly average. Seasonal precipitation at this time last year stood at 65 percent of normal.

### Reservoir Storage

Contents of major reservoirs in % of capacity

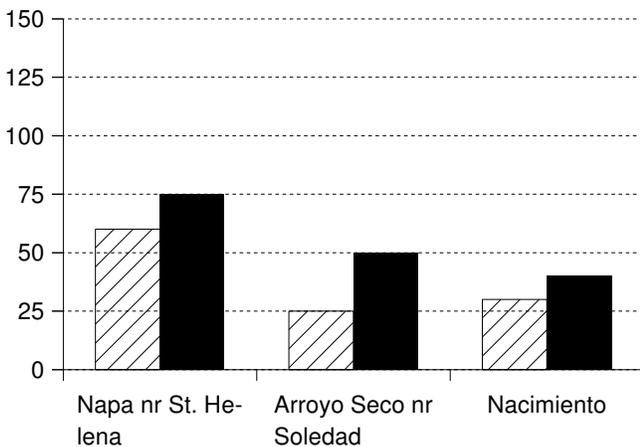


**RESERVOIR STORAGE**- First of the month storage in 17 **San Francisco Bay Region** reservoirs was 515 thousand acre-feet which is 95 percent of average. About 70 percent of available capacity was being used. Storage in these reservoirs at this time last year was 85 percent of average.

First of the month storage in 6 **Central Coast Region** reservoirs was 200 thousand acre-feet which is 30 percent of average and about 20 percent of available capacity. Storage in these reservoirs at this time last year was 30 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 53 thousand acre-feet which is 75 percent of average for this period. Last year, runoff for the same period was 60 percent of average.

Seasonal runoff of streams draining the **Central Coast Region** totaled 138 thousand acre-feet which is 45 percent of average for this period. Last year runoff for this same period was 30 percent of average.

## **SOUTH COAST AND COLORADO RIVER REGIONS**

**PRECIPITATION** - October through April (seasonal) precipitation on the **South Coast Region** was 55 percent of normal. April precipitation was 40 percent of the monthly average. Seasonal precipitation at this time last year was 55 percent of normal. Seasonal precipitation on the **Colorado River-Desert Region** was 75 percent of normal. Precipitation during April was 300 percent of average. Seasonal precipitation at this time last year stood at 65 percent of average.

**RESERVOIR STORAGE** - May 1 storage in 29 major **South Coast Region** reservoirs was 1.1 million acre-feet or 70 percent of average. About 50 percent of available capacity was being used. Storage in these reservoirs at this time last year was 55 percent of average.

**RUNOFF** - Seasonal runoff from selected **South Coast Region** streams totaled 10 thousand acre-feet which is 20 percent of average. Seasonal runoff from these streams last year was 20 percent of average.

### **COLORADO RIVER**

The April July inflow to Lake Powell is forecast to be 5.5 million acre-feet, which is 77 percent of average. The May 1 snowpack in the Colorado River basin above Lake Powell was 90 percent of average, lowest in the Lower Green at 60 percent and highest in the Yampa/White at 110 percent. On May 1 combined storage in Lakes Powell, Mead, Mohave and Havasu was about 23.0 million acre-feet or about 60 percent of average. About 45 percent of available capacity was in use. Last year at this time, these reservoirs were storing 60 percent of average.

**MAJOR WATER DISTRIBUTION PROJECTS  
RESERVOIR STORAGE**

(AVERAGES BASED ON 1951-2000 OR PERIOD RECORD)

RESERVOIR	CAPACITY 1,000 AF	AVERAGE STORAGE 1,000 AF	2015 1,000 AF	STORAGE AT END OF April		
				2016 1,000 AF	PERCENT AVERAGE	PERCENT CAPACITY
<i>STATE WATER PROJECT</i>						
Lake Oroville	3,538	2,877	1,782	3,400	118%	96%
San Luis Reservoir (SWP)	1,062	961	896	556	58%	52%
Lake Del Valle	77	39	41	40	102%	52%
Lake Silverwood	78	69	71	66	96%	85%
Pyramid Lake	180	163	165	162	100%	90%
Castaic Lake	325	294	100	178	60%	55%
Perris Lake	131	111	51	47	43%	36%
<i>CENTRAL VALLEY PROJECT</i>						
Trinity Lake	2,448	2,020	1,184	1,494	74%	61%
Lake Shasta	4,552	3,924	2,662	4,233	108%	93%
Whiskeytown Lake	241	233	236	237	102%	98%
Folsom Lake	977	729	576	826	113%	85%
New Melones Reservoir	2,400	1,505	491	622	41%	26%
Millerton Lake	520	366	192	295	81%	57%
San Luis Reservoir (CVP)	971	860	377	401	47%	41%
<i>COLORADO RIVER PROJECT</i>						
Lake Mead	26,159	19,331	9,931	9,693	50%	37%
Lake Powell	24,322	17,499	10,837	11,014	63%	45%
Lake Mohave	1,810	1,670	1,723	1,746	105%	96%
Lake Havasu	648	586	582	597	102%	92%
<i>EAST BAY MUNICIPAL UTILITY DISTRICT</i>						
Pardee Res	210	183	179	180	98%	86%
Camanche Reservoir	417	268	103	240	90%	58%
East Bay (4 res.)	159	135	112	135	100%	85%
<i>CITY AND COUNTY OF SAN FRANCISCO</i>						
Hetch-Hetchy Reservoir	360	175	262	281	160%	78%
Cherry Lake	268	163	193	181	111%	68%
Lake Eleanor	29	16	21	22	136%	76%
South Bay/Peninsula (4 res.)	238	178	142	156	88%	66%
<i>CITY OF LOS ANGELES (D.W.P.)</i>						
Lake Crowley	183	125	103	111	89%	61%
Grant Lake	48	26	12	17	64%	35%
Other Aqueduct Storage (6 res.)	95	75	58	66	88%	69%

# TELEMETERED SNOW WATER EQUIVALENTS

May 1, 2016

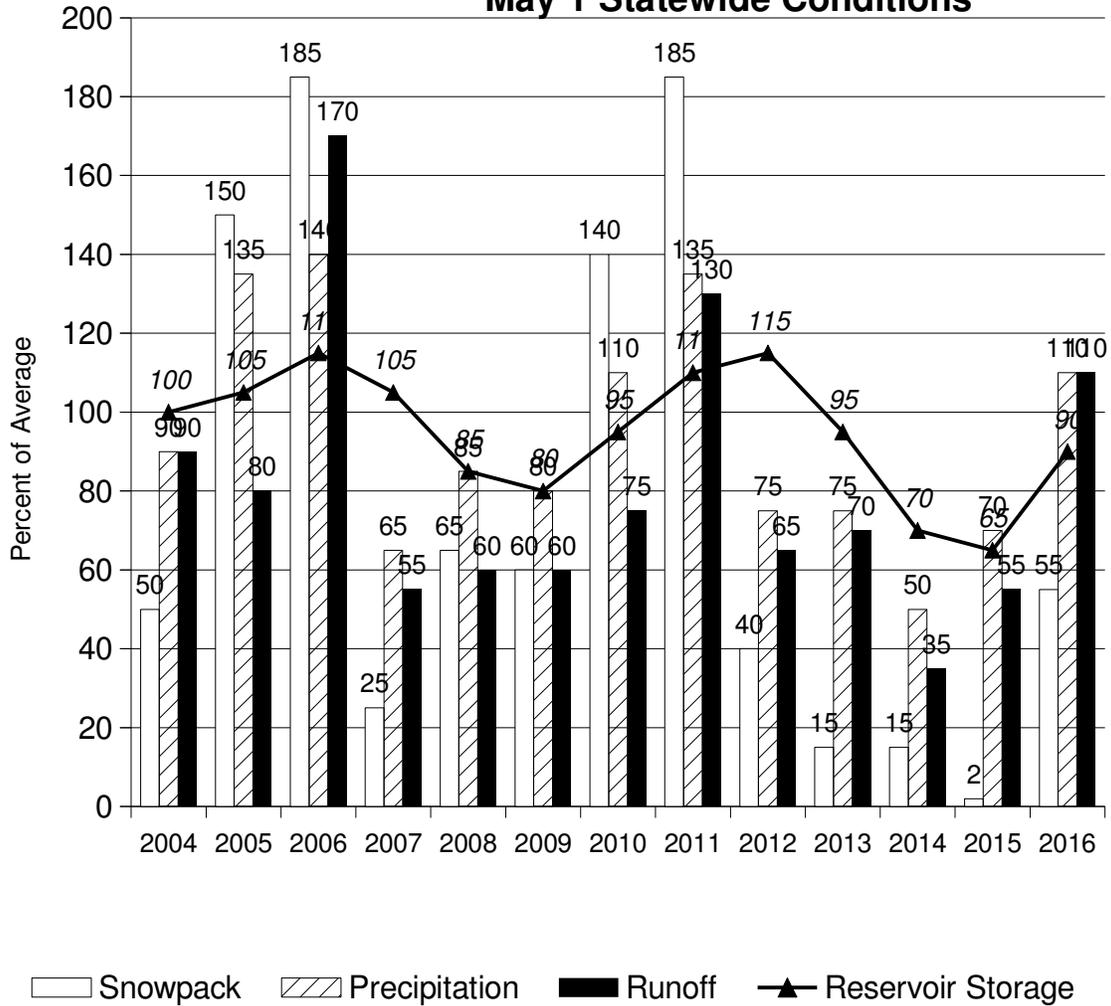
(AVERAGES BASED ON PERIOD RECORD)

BASIN NAME	STATION NAME	ELEV	INCHES OF WATER EQUIVALENT				
			APRIL 1 AVERAGE	PERCENT May 1 OF AVERAGE	24 HRS PREVIOUS	1 WEEK PREVIOUS	
<b>TRINITY RIVER</b>							
	Peterson Flat	7150'	29.2	14.0	48.1	14.8	16.2
	Red Rock Mountain	6700'	39.6	—	—	—	—
	Bonanza King	6450'	40.5	—	—	—	—
	Shimmy Lake	6400'	40.3	25.1	62.2	26.0	26.6
	Middle Boulder 3	6200'	28.3	1.2	4.3	2.5	10.5
	Highland Lakes	6030'	29.9	—	—	—	—
	Scott Mountain	5900'	16.0	—	—	—	—
	Mumbo Basin	5650'	22.4	0.0	0.0	0.0	5.6
	Big Flat	5100'	15.8	0.4	2.3	1.1	4.9
	Crowder Flat	5100'	—	0.0	—	0.0	0.0
<b>SACRAMENTO RIVER</b>							
	Cedar Pass	7100'	18.1	2.4	13.3	3.5	4.5
	Blacks Mountain	7050'	12.7	0.0	0.0	0.2	1.4
	Sand Flat	6750'	42.4	23.0	54.3	23.5	25.9
	Medicine Lake	6700'	32.6	16.9	51.9	17.5	19.1
	Adin Mountain	6200'	13.6	0.0	0.0	0.0	0.0
	Snow Mountain	5950'	27.0	6.4	23.6	7.3	10.7
	Slate Creek	5700'	29.0	0.0	0.0	0.0	0.8
	Stouts Meadow	5400'	36.0	22.1	61.3	22.2	22.8
<b>FEATHER RIVER</b>							
	Lower Lassen Peak	8250'	—	—	—	—	—
	Kettle Rock	7300'	25.5	5.4	21.2	6.0	9.7
	Grizzly Ridge	6900'	29.7	10.6	35.6	11.2	12.8
	Pilot Peak	6800'	52.6	27.1	51.6	27.8	29.3
	Gold Lake	6750'	36.5	38.4	105.2	38.9	40.0
	Humbug	6500'	28.0	18.4	65.6	19.2	22.2
	Harkness Flat	6200'	28.5	3.4	11.9	4.7	8.5
	Rattlesnake	6100'	14.0	0.0	0.0	0.0	0.5
	Bucks Lake	5750'	44.7	23.3	52.1	24.6	27.7
	Four Trees	5150'	20.0	0.0	0.0	0.0	0.0
<b>EEL RIVER</b>							
	Hull Mountain	6461'	—	0.0	—	0.0	1.1
	Noel Spring	5100'	—	0.0	—	0.0	0.0
<b>YUBA &amp; AMERICAN RIVERS</b>							
	Schneiders	8750'	34.5	44.3	128.5	45.4	42.9
	Lake Lois	8600'	39.5	—	—	—	—
	Carson Pass	8353'	—	23.8	—	24.0	23.1
	Caples Lake	8000'	30.9	23.3	75.3	23.5	23.2
	Alpha	7600'	35.9	20.6	57.4	21.2	21.9
	Forni Ridge	7600'	37.0	—	—	—	—
	Meadow Lake	7200'	55.5	—	—	—	—
	Silver Lake	7100'	22.7	5.0	22.2	6.1	8.2
	Central Sierra Snow Lab	6900'	33.6	17.2	51.2	18.1	20.1
	Van Vleck	6700'	35.9	19.3	53.9	20.5	21.8
	Huysink	6600'	42.6	22.3	52.4	23.0	24.1
	Robinson Cow Camp	6480'	—	23.3	—	24.6	27.2
	Robbs Saddle	5900'	21.4	0.0	0.0	0.0	1.6
	Greek Store	5600'	21.0	0.0	0.0	0.0	2.2
	Blue Canyon	5280'	9.0	0.0	0.0	0.0	0.6
	Robbs Powerhouse	5150'	5.2	0.0	0.0	0.0	0.0
<b>MOKELUMNE &amp; STANISLAUS RIVERS</b>							
	Deadman Creek	9250'	37.2	30.2	81.2	30.3	29.6
	Highland Meadow	8700'	47.9	14.8	30.9	15.0	16.2
	Gianelli Meadow	8400'	55.5	36.6	65.9	37.3	37.6
	Lower Relief Valley	8100'	41.2	—	—	—	—
	Blue Lakes	8000'	33.1	26.7	80.7	27.1	26.3
	Stanislaus Meadow	7750'	47.5	29.5	62.1	29.9	31.0
	Bloods Creek	7200'	35.5	14.3	40.2	15.5	17.6
	Black Springs	6500'	32.0	16.3	51.0	17.3	19.6
<b>TUOLUMNE &amp; MERCED RIVERS</b>							
	Dana Meadows	9800'	27.7	20.8	75.1	20.6	21.5
	Slide Canyon	9200'	41.1	—	—	—	—
	Tuolumne Meadows	8600'	22.6	—	—	—	—
	Horse Meadow	8400'	48.6	39.8	81.8	40.2	40.1
	Ostrander Lake	8200'	34.8	18.8	54.1	19.8	20.9
	Lake Tenaya	8150'	33.1	—	—	—	—
	White Wolf	7900'	—	—	—	—	—
	Paradise Meadow	7650'	41.3	27.0	65.4	28.6	31.6
	Gin Flat	7050'	34.2	4.2	12.3	5.2	7.1
	Lower Kibbie Ridge	6700'	27.4	0.0	0.0	0.0	0.0

<b>SAN JOAQUIN RIVER</b>							
Volcanic Knob	10050'	30.1	—	—	—	—	—
Agnew Pass	9450'	32.3	13.7	42.4	13.4	8.4	
Kaiser Point	9200'	37.8	10.4	27.6	11.0	12.6	
Green Mountain	7900'	30.8	2.2	7.0	3.1	5.5	
Devil's Postpile	7569'	—	0.0	—	0.0	0.0	
Tamarack Summit	7550'	30.5	0.1	0.4	1.2	3.5	
Chilkoot Meadow	7150'	38.0	18.7	49.3	19.2	19.2	
Huntington Lake	7000'	20.1	1.6	7.8	2.6	4.6	
Graveyard Meadow	6900'	18.8	0.0	0.0	0.0	0.0	
Poison Ridge	6900'	28.9	0.0	0.0	0.0	0.0	
<b>KINGS RIVER</b>							
Bishop Pass	11200'	34.0	—	—	—	—	
Charlotte Lake	10400'	27.5	—	—	—	—	
State Lakes	10300'	29.0	15.8	54.6	15.6	16.1	
Blackcap Basin	10300'	34.3	36.9	107.5	36.6	35.5	
Mitchell Meadow	9900'	32.9	32.0	97.2	32.0	30.1	
Upper Burnt Corral	9700'	34.6	27.1	78.3	27.2	28.0	
West Woodchuck Meadow	9100'	32.8	10.7	32.7	11.4	12.3	
Big Meadows	7600'	25.9	0.0	0.0	0.2	3.6	
<b>KAWEAH &amp; TULE RIVERS</b>							
Quaking Aspen	7200'	21.0	0.0	0.0	0.0	0.0	
Giant Forest	6650'	10.0	0.0	0.0	0.0	0.0	
<b>KERN RIVER</b>							
Upper Tyndall Creek	11400'	27.7	13.6	49.0	13.5	13.3	
Chagoopa Plateau	10300'	21.8	11.6	53.3	11.7	12.7	
Pascoes	9150'	24.9	14.9	60.0	15.7	17.5	
Wet Meadows	8950'	30.3	0.0	0.0	0.0	0.8	
Casa Vieja Meadows	8300'	20.9	0.4	1.9	0.5	2.2	
Beach Meadows	7650'	11.0	0.0	0.0	0.0	0.0	
<b>SURPRISE VALLEY AREA</b>							
Dismal Swamp	7050'	29.2	29.2	100.0	29.2	28.8	
<b>TRUCKEE RIVER</b>							
Big Meadows	8700'	25.7	15.5	60.3	15.7	15.1	
Independence Lake	8450'	41.4	50.5	122.0	50.5	49.9	
Squaw Valley	8200'	46.5	28.2	60.6	28.3	28.2	
Independence Camp	7000'	21.8	0.2	0.9	0.3	0.9	
Independence Creek	6500'	12.7	0.0	0.0	0.0	0.5	
Truckee 2	6400'	14.3	0.0	0.0	0.0	0.7	
<b>LAKE TAHOE BASIN</b>							
Mount Rose Ski Area	8900'	38.5	34.8	90.4	34.2	33.9	
Heavenly Valley	8800'	28.1	20.5	73.0	20.5	19.0	
Hagans Meadow	8000'	16.5	0.0	0.0	0.0	0.8	
Marlette Lake	8000'	21.1	12.3	58.3	12.1	13.1	
Echo Peak 5	7800'	39.5	26.1	66.1	26.4	25.5	
Rubicon Peak 2	7500'	29.1	17.0	58.4	17.2	16.6	
Tahoe City Cross	6750'	16.0	0.0	0.0	0.0	1.1	
Ward Creek 3	6750'	39.4	17.2	43.7	16.9	18.6	
Fallen Leaf Lake	6250'	7.0	0.0	0.0	0.0	0.0	
<b>CARSON RIVER</b>							
Ebbetts Pass	8700'	38.8	26.5	68.3	26.6	25.7	
Horse Meadow	8557'	—	12.6	—	12.6	11.5	
Monitor Pass	8350'	—	0.0	—	0.0	0.4	
Burnside Lake	8129'	—	12.7	—	12.8	12.9	
Forestdale Creek	8017'	—	28.2	—	28.7	27.5	
Poison Flat	7900'	16.2	7.4	45.7	7.4	8.2	
Spratt Creek	6150'	4.5	0.0	0.0	0.0	0.0	
<b>WALKER RIVER</b>							
Leavitt Lake	9600'	—	56.7	—	56.8	56.0	
Summit Meadow	9313'	—	14.4	—	14.3	13.2	
Virginia Lakes	9300'	20.3	14.5	71.4	14.4	13.6	
Lobdell Lake	9200'	17.3	8.1	46.8	8.0	5.8	
Sonora Pass Bridge	8750'	26.0	19.1	73.5	19.1	18.7	
Leavitt Meadows	7200'	8.0	0.0	0.0	0.0	0.0	
<b>OWENS RIVER/MONO LAKE</b>							
Gem Pass	10750'	31.7	16.0	50.5	16.0	15.7	
Sawmill	10200'	19.4	4.6	23.7	4.8	5.6	
Big Pine Creek	9800'	17.9	0.4	2.4	0.4	1.0	
South Lake	9600'	16.0	1.5	9.4	1.8	2.8	
Mammoth Pass	9300'	42.4	30.8	72.7	30.7	30.6	

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  
May 1 Statewide Conditions**



**SNOWLINES**

**Next year's** Western Snow Conference will be held at Boise, ID April 17-20, 2017. For further information contact Frank Gehrke at 916-574-2635 or [gridley@water.ca.gov](mailto:gridley@water.ca.gov) Information is available on the web at <http://www.westernsnowconference.org>.

**On this month's cover-** is a composite image of Mammoth Mountain on May 9, 2016 produced from the multispectral imager flown on the Airborne Snow Observatory aircraft. Created by Kat Bormann, JPL affiliate