



California Cooperative
Snow Surveys
Bulletin 120-2-08

State of California
The Resources Agency

Department of
Water Resources

Water Conditions in California

Report 2 March 1, 2008



Arnold Schwarzenegger
Governor
State of California

Mike Chrisman
Secretary for Resources
The Resources Agency

Lester A. Snow
Director
Department of Water Resources

STATE OF CALIFORNIA
Arnold Schwarzenegger, Governor

THE RESOURCES AGENCY
Mike Chrisman, Secretary for Resources

Department of Water Resources
Lester A. Snow
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COOPERATING AGENCIES

Public Agencies

Buena Vista Water Storage District
East Bay Municipal Utility District
Eldorado Irrigation District
Friant Water Users Association
Kaweah Delta Water Conservation District
Kern Delta Water District
Kings River Conservation District
Lower Tule River Irrigation District
Merced Irrigation District
Modesto Irrigation District
Nevada Irrigation District
North Kern Water Storage District
Northern California Power Agency
Oakdale Irrigation District
Omochumne-Hartnell Water District
Oroville-Wyandotte Irrigation District
Placer County Water Agency
Sacramento Municipal Utility District
San Joaquin River Exchange Contractors Water Authority
South San Joaquin Irrigation District
Tri-Dam Project
Truckee River Basin Water Commission
Tulare Lake Basin Water Storage District
Turlock Irrigation District
Yuba County Water Agency
Private Organizations
J.G. Boswell Company
Kaweah and St. Johns River Association
Kings River Water Association
Tule River Association
State Water Project Contractors

Municipalities

City of Bakersfield Water Department
City of Los Angeles Department of Water and Power
City and County of San Francisco Hetch Hetchy Water and Power

State Agencies

University of California
Central Sierra Snow Laboratory
Scripps Institution of Oceanography
California Department of Forestry & Fire Protection
California Department of Water Resources

Public Utilities

Pacific Gas and Electric Company
Southern California Edison Company

Federal Agencies

U.S. Department of Agriculture
Forest Service(14 National Forests)
Natural Resource Conservation Service
U.S. Department of Commerce
National Weather Service
U.S. Department of Interior
Bureau of Reclamation
Geological Survey, Water Resources
National Park Service(3 National Parks)
U.S. Department of Army
Corps of Engineers

Other Cooperative Programs

Nevada Cooperative Snow Surveys
Oregon Cooperative Snow Surveys

Summary of Water Conditions

March 1, 2008

Statewide, precipitation was less than average during February but the snowpack continued to accumulate at a normal rate. The storm periods which did occur were quite productive in the central and southern Sierra, which helped build the snowpack above the April 1 average. Spring runoff should be enough to bring most reservoirs to near normal storage with a normal March and April.

Forecasts of April through July runoff 95 percent of average statewide with no large differences between regions. Water year forecasts are a little less at 80 percent of average reflecting the relatively lower seasonal precipitation values compared to the snowpack. There is still a fairly wide range of possible outcomes dependent on the remainder of the season.

Snowpack water content is about 130 percent of average for the date compared to 70 percent last year. The pack is 110 percent of the April 1 average, the normal date of maximum accumulation.

Precipitation from October through February was about 100 percent of average compared to 70 percent one year ago. The range is from 115 percent in the San Francisco Bay and Central Coast regions to 95 percent in the San Joaquin River and Tulare Lake regions. February precipitation was about 80 percent of average.

Runoff has been about 60 percent of average so far compared to last year at 55 percent of average. February runoff was somewhat above seasonal runoff at 70 percent of average. Estimated runoff of the eight major rivers of the Sacramento and San Joaquin River region during February was 1.8 million acre-feet, somewhat less than last year's 2.1 million acre-feet.

Reservoir storage is about 85 percent compared to 105 percent last year. The gain during February was slightly more than average in spite of the below normal February runoff.

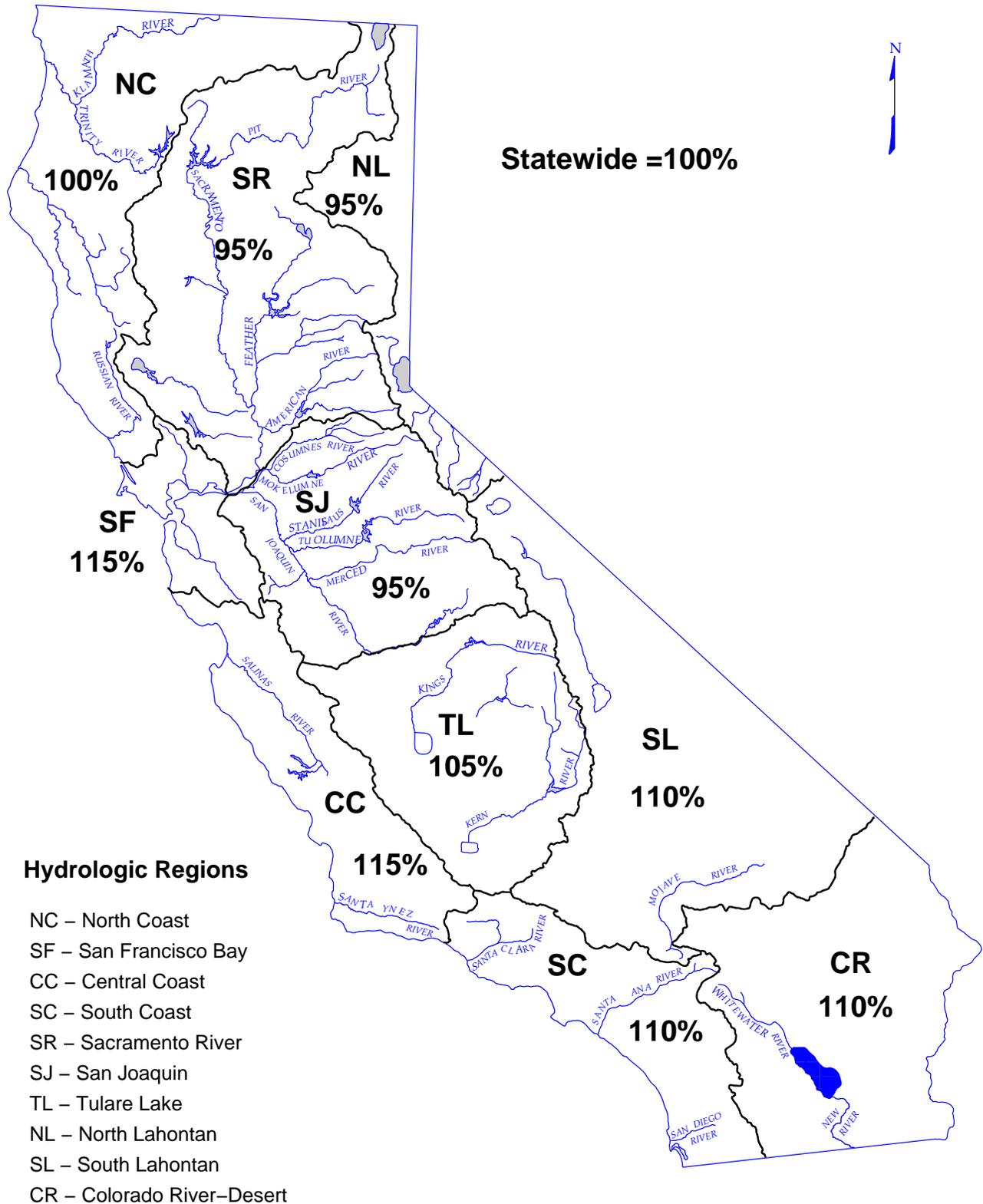
SUMMARY OF WATER CONDITIONS IN PERCENT OF AVERAGE

HYDROLOGIC REGION	PRECIPITATION OCTOBER 1 TO DATE	MARCH 1 SNOW WATER CONTENT	MARCH 1 RESERVOIR STORAGE	RUNOFF OCTOBER 1 TO DATE	APR-JULY RUNOFF FORECAST	WATER YEAR RUNOFF FORECAST
NORTH COAST	100	130	85	70	100	80
SAN FRANCISCO BAY	115	--	105	75	--	--
CENTRAL COAST	115	--	110	95	--	--
SOUTH COAST	110	--	105	60	--	--
SACRAMENTO RIVER	95	125	80	55	95	75
SAN JOAQUIN RIVER	95	120	95	40	100	85
TULARE LAKE	105	145	70	55	105	95
NORTH LAHONTAN	95	125	80	40	90	80
SOUTH LAHONTAN	110	135	100	65	100	95
COLORADO RIVER- DESERT	110	--	--	--	--	--
STATEWIDE	100	130	85	60	95	80

**DEPARTMENT OF WATER RESOURCES
CALIFORNIA COOPERATIVE SNOW SURVEYS
SEASONAL PRECIPITATION**

IN PERCENT OF AVERAGE TO DATE

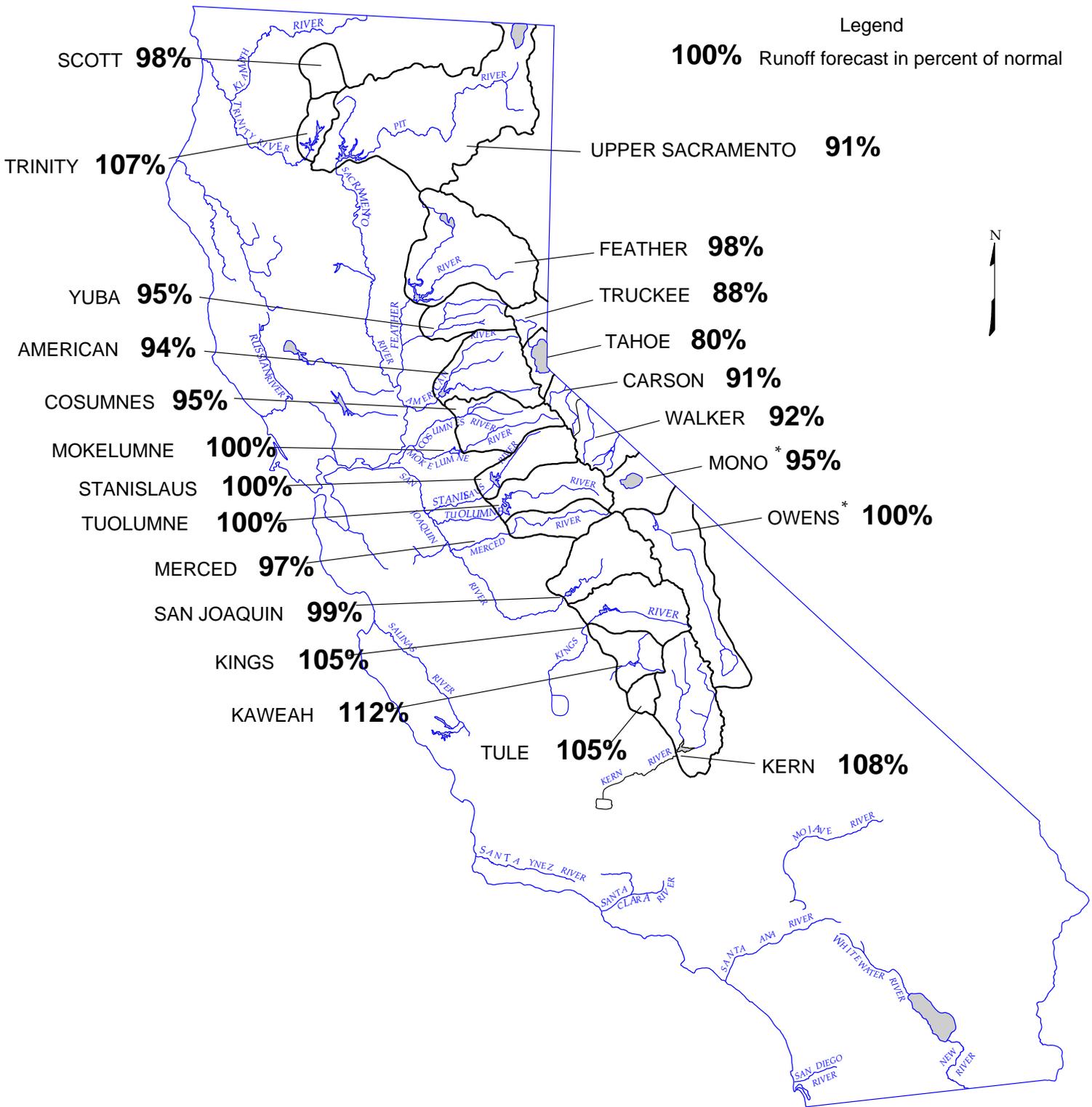
October 1, 2007 through February 29, 2008



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, 2008



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

**MARCH 1, 2008 FORECASTS
APRIL-JULY UNIMPAIRED RUNOFF**

HYDROLOGIC REGION and Watershed	Unimpaired Runoff in 1,000 Acre-Feet (1)					
	HISTORICAL			FORECAST		
	50 Yr Avg (2)	Max of Record	Min of Record	Apr-Jul Forecasts	Pct of Avg	80 % Probability Range (1)
SACRAMENTO RIVER						
Upper Sacramento River						
Sacramento River at Delta above Shasta Lake	298	711	39	310	104%	
McCloud River above Shasta Lake	392	850	185	370	94%	
Pit River near Montgomery Creek + Squaw Creek	1,066	2,098	480	920	86%	
Total Inflow to Shasta Lake	1,819	3,525	726	1,650	91%	1,210 - 2,550
Sacramento River above Bend Bridge, near Red Bluff	2,494	5,075	943	2,180	87%	1,550 - 3,610
Feather River						
Feather River at Lake Almanor near Prattville (3)	333	675	120	310	93%	
North Fork at Pulga (3)	1,028	2,416	243	950	92%	
Middle Fork near Clio (4)	86	518	4	75	87%	
South Fork at Ponderosa Dam (3)	110	267	13	100	91%	
Feather River at Oroville	1,782	4,676	392	1,740	98%	1,140 - 2,890
Yuba River						
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	200	86%	
Yuba River near Smartville plus Deer Creek	1,006	2,424	200	960	95%	600 - 1,530
American River						
North Fork at North Fork Dam (3)	262	716	43	240	92%	
Middle Fork near Auburn (3)	522	1,406	100	480	92%	
Silver Creek Below Camino Diversion Dam (3)	173	386	37	150	87%	
American River below Folsom Lake	1,240	3,074	229	1,160	94%	720 - 1,990
SAN JOAQUIN RIVER						
Cosumnes River at Michigan Bar	126	363	8	120	95%	60 - 270
Mokelumne River						
North Fork near West Point (5)	437	829	104	410	94%	
Total Inflow to Pardee Reservoir	461	1,065	102	460	100%	340 - 700
Stanislaus River						
Middle Fork below Beardsley Dam (3)	334	702	64	320	96%	
North Fork Inflow to McKays Point Dam (3)	224	503	34	210	94%	
Stanislaus River below Goodwin Reservoir (7)	702	1,710	116	700	100%	530 - 1,090
Tuolumne River						
Cherry Creek & Eleanor Creek near Hetch Hetchy	315	727	97	320	102%	
Tuolumne River near Hetch Hetchy	604	1,392	153	620	103%	
Tuolumne River below La Grange Reservoir (7)	1,220	2,682	301	1,220	100%	960 - 1,840
Merced River						
Merced River at Pohono Bridge	372	888	80	360	97%	
Merced River below Merced Falls (7)	632	1,587	123	610	97%	470 - 960
San Joaquin River						
San Joaquin River at Mammoth Pool (8)	1,026	2,279	235	1,040	101%	
Big Creek below Huntington Lake (9)	91	264	11	95	104%	
South Fork near Florence Lake (8)	201	511	58	210	104%	
San Joaquin River inflow to Millerton Lake	1,254	3,355	262	1,240	99%	960 - 1,830
TULARE LAKE						
Kings River						
North Fork Kings River near Cliff Camp (3)	239	565	50	260	109%	
Kings River below Pine Flat Reservoir	1,224	3,113	274	1,280	105%	1,000 - 1,870
Kaweah River below Terminus Reservoir	286	814	62	320	112%	260 - 500
Tule River below Lake Success	64	259	2	67	105%	48 - 141
Kern River						
Kern River near Kernville	384	1,203	83	430	112%	
Kern River inflow to Lake Isabella	461	1,657	84	500	108%	390 - 800

(1) See inside back cover for definition

(2) All 50 year averages are based on years 1956-2005 unless otherwise noted

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

(8) 50 year average based on years 1953-2002

(9) 50 year average based on years 1946-1995

(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

**MARCH 1, 2008 FORECASTS
WATER YEAR UNIMPAIRED RUNOFF**

Unimpaired Runoff in 1,000 Acre-Feet (1)													
HISTORICAL			DISTRIBUTION								FORECAST		
50 Yr Avg (2)	Max of Record	Min of Record	Oct Thru Jan*	Feb *	Mar	Apr	May	Jun	Jul	Aug & Sep	Water Year Forecasts	Pct of Avg	80 % Probability Range (1)
887	1,965	165											
1,217	2,353	557											
3,159	5,150	1,484											
6,107	10,796	2,479	1,335	610	730	640	485	295	230	420	4,745	78%	4,030 - 6,275
8,907	17,180	3,294	2,010	1,005	1,180	830	640	410	300	530	6,905	78%	5,725 - 9,070
780	1,269	366											
2,417	4,400	666											
219	637	24											
291	562	32											
4,620	9,492	994	500	240	560	680	620	300	140	180	3,220	70%	2,430 - 4,970
564	1,056	102											
181	292	30											
379	565	98											
2,373	4,926	369	225	140	280	365	400	155	40	35	1,640	69%	1,180 - 2,435
616	1,234	66											
1,070	2,575	144											
318	705	59											
2,719	6,382	349	205	140	330	410	480	220	50	25	1,860	68%	1,300 - 2,940
390	1,253	20	30	27	55	62	40	15	3	1	233	60%	140 - 455
626	1,009	197											
755	1,800	129	25	30	80	125	205	115	15	5	600	79%	450 - 890
471	929	88											
1,171	2,952	155	75	55	110	200	290	170	40	10	950	81%	740 - 1,465
461	1,147	123											
770	1,661	258											
1,951	4,631	383	110	100	190	290	475	375	80	25	1,645	84%	1,330 - 2,385
461	1,020	92											
1,007	2,787	150	55	65	95	150	260	165	35	15	840	83%	670 - 1,260
1,337	2,964	308											
112	298	14											
248	653	71											
1,836	4,642	362	95	70	140	250	450	395	145	65	1,610	88%	1,270 - 2,320
284	607	58											
1,721	4,287	386	85	75	120	230	480	440	130	55	1,615	94%	1,290 - 2,290
454	1,402	94	31	31	50	75	125	95	25	11	443	98%	370 - 660
148	615	16	16	18	25	27	25	11	4	3	129	87%	100 - 235
558	1,577	163											
730	2,318	175	55	35	50	105	165	155	75	45	685	94%	550 - 1,050

* Unimpaired runoff in prior months based on measured flows

(7) 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.

**MARCH 1, 2008 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

NORTH COAST

Trinity River Trinity River at Lewiston Lake (3)	654	1,593	80	700	107%
Scott River Scott River near Fort Jones (3)	200	400	30	195	98%
Klamath River Total inflow to Upper Klamath Lake (4)	515	939	149	500	97%

NORTH LAHONTAN

Truckee River Lake Tahoe to Farad accretions	261	713	52	230	88%
Lake Tahoe Rise (assuming gates closed, ft)	1.4	5.4	0.2	1.1	80%
Carson River West Fork Carson River at Woodfords	54	135	12	50	92%
East Fork Carson River near Gardnerville	187	407	43	170	91%
Walker River West Walker River below Little Walker, near Coleville	154	330	35	145	94%
East Walker River near Bridgeport	64	209	7	57	89%

SOUTH LAHONTAN

Owens River Total tributary flow to Owens River (5)	235	579	96	236	100%
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**MARCH 1, 2008 FORECASTS
WATER YEAR UNIMPAIRED RUNOFF**

HYDROLOGIC REGION and Watershed	Water Year Unimpaired Runoff in 1,000 Acre-Feet (1)					
	HISTORICAL			FORECAST		
	50 Yr Avg (2)	Max of Record	Min of Record	Water Year Forecasts	Pct of Avg	80 % Probability Range (1)

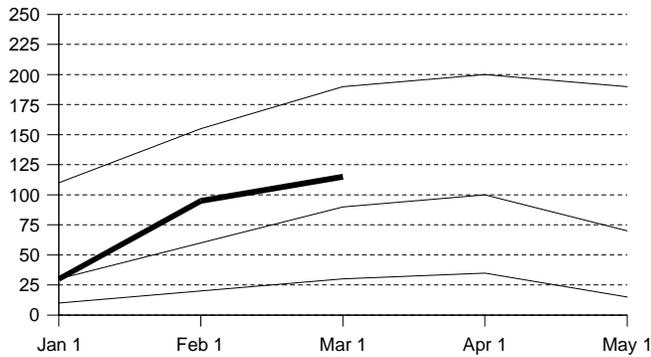
NORTH COAST

Trinity River Trinity River at Lewiston Lake (3)	1,398	2,990	200	1,130	81%	880 - 1530
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- (1) See inside back cover for definition
- (2) All 50 year averages are based on years 1956-2005 unless otherwise noted
- (3) Forecast by National Weather Service California-Nevada River Forecast Center.
- (4) Forecast by U.S. Natural Resources Conservation Service and National Weather Service California-Nevada River Forecast Center, April through September forecast, 30 year average based on years 1971-2000.
- (5) Forecast by Department of Water and Power, City of Los Angeles, average based on years 1951-2000.

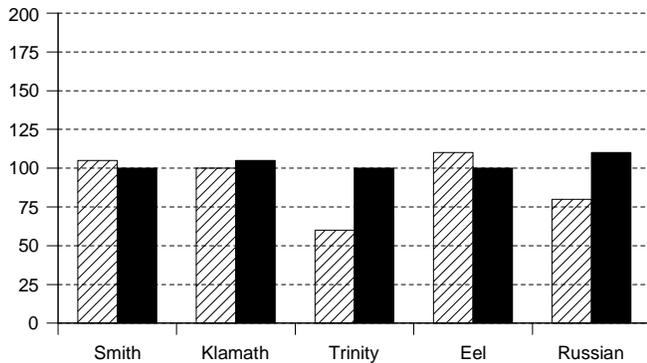
Snowpack Accumulation

Water Content in % of April 1 Average



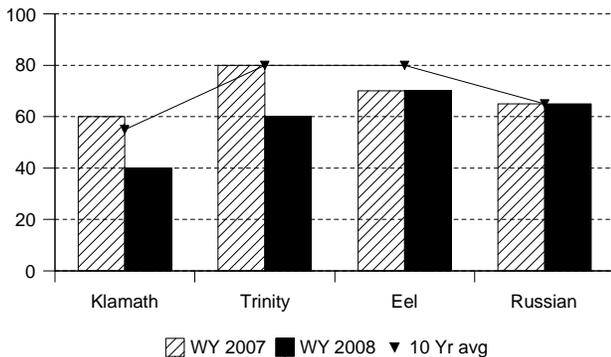
Precipitation

October 1 to date in % of Average



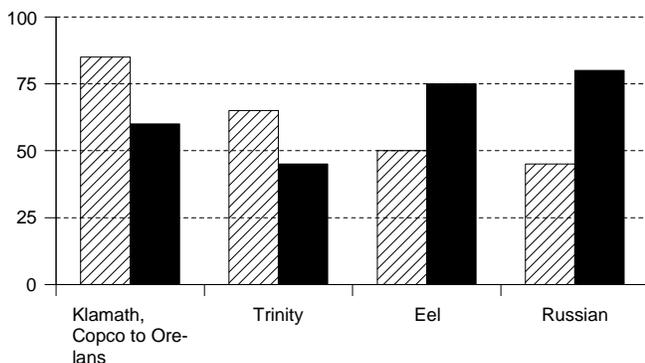
Reservoir Storage

Contents of major reservoirs in % of capacity



Runoff

October 1 to date in % of average



NORTH COAST REGION

SNOWPACK- First of the month measurements made at 12 snow courses indicate an area wide snow water equivalent of 34.2 inches. This is 130 percent of the March 1 average and 115 percent of the seasonal (April 1) average. Last year at this time the pack was holding 21.0 inches of water.

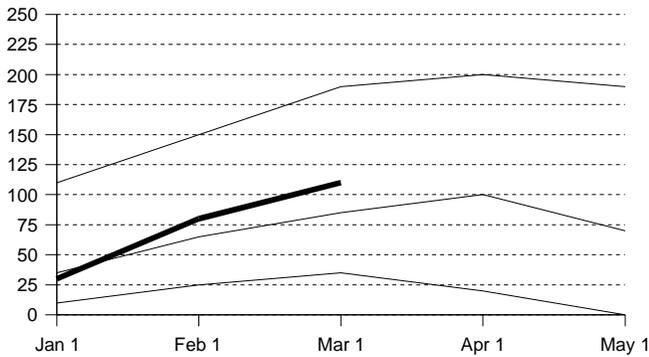
PRECIPITATION - Seasonal precipitation (October 1 through the end of last month) on this area was 100 percent of normal. Precipitation last month was about 75 percent of the monthly average. Seasonal precipitation at this time last year stood at 90 percent of normal.

RESERVOIR STORAGE- First of the month storage in 6 reservoirs was 1.9 million acre-feet which is 85 percent of average. About 60 percent of available capacity was being used. Storage in these reservoirs at this time last year was 105 percent of average.

RUNOFF -Seasonal runoff of streams draining the area totaled 5.2 million acre-feet which is 70 percent of the average for this period. Last year, runoff for the same period was 65 percent of average.

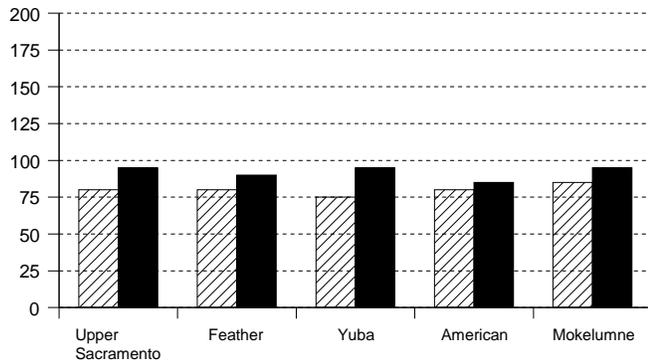
Snowpack Accumulation

Water Content in % of April 1 Average



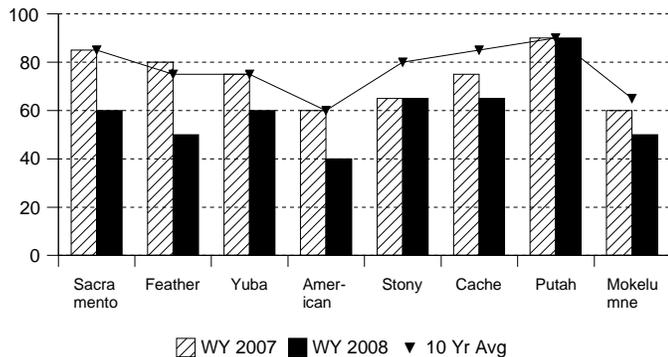
Precipitation

October 1 to date in % of Average



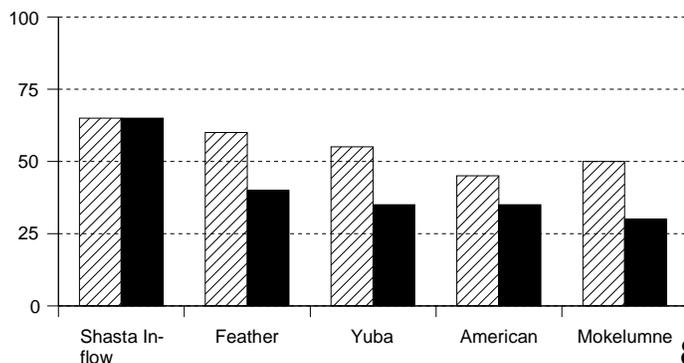
Reservoir Storage

Contents of major reservoirs in % of capacity



Runoff

October 1 to date in % of average



SACRAMENTO RIVER REGION

SNOWPACK- First of the month measurements made at 68 snow courses indicate an area wide snow water equivalent of 31.6 inches. This is 125 percent of the March 1 average and 110 percent of the seasonal (April 1) average. Last year at this time the pack was holding 18.8 inches of water.

PRECIPITATION - Seasonal precipitation (October 1 through the end of last month) on this area was 95 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- First of the month storage in 43 reservoirs was 9.1 million 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 100 percent of average.

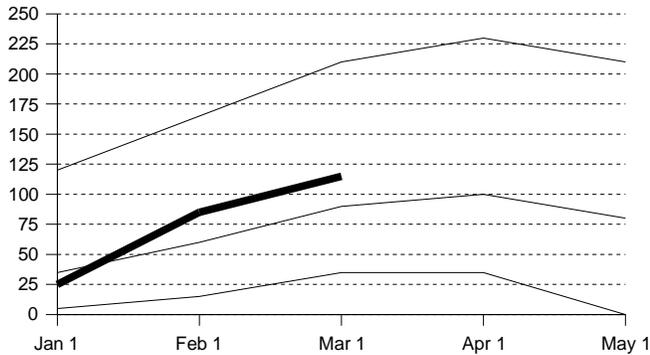
RUNOFF - Seasonal runoff of streams draining the area totaled 4.5 million acre-feet which is 55 percent of average for this period. Last year, runoff for the same period was 60 percent of average.

The **Sacramento Region 40-30-30 Water Supply Index** is forecast to be 6.3 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

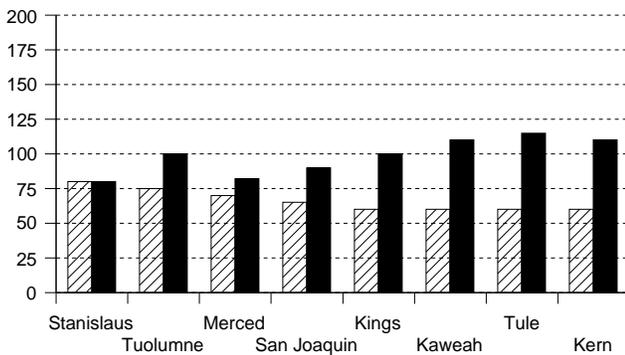
Snowpack Accumulation

Water Content in % of April 1 Average



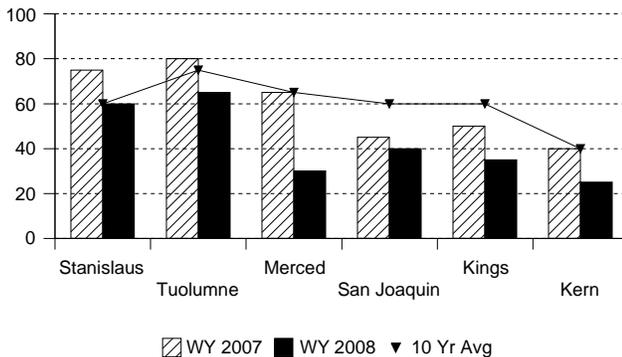
Precipitation

October 1 to date in % of Average



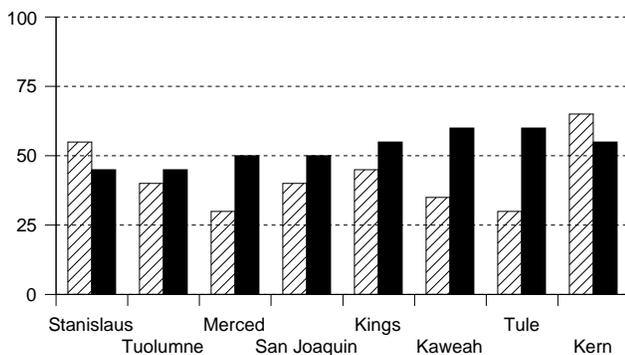
Reservoir Storage

Contents of major reservoirs in % of capacity



Runoff

October 1 to date in % of average



SNOWPACK- First of the month measurements made at 61 **San Joaquin Region** snow courses indicate an area wide snow water equivalent of 32 inches. This is 120 percent of the March 1 average and 105 percent of seasonal (April 1) average. Last year at this time the pack was holding 18.6 inches of water. At the same time 33 **Tulare Lake Region** snow courses indicated a basin-wide snow water equivalent of 29.1 inches which is 145 percent of the average for March 1 and 130 percent of the seasonal average. Last year at this time the basin was holding 12.2 inches of water.

PRECIPITATION - Seasonal precipitation (October 1 through the end of last month) on the **San Joaquin Region** was 95 percent of normal. Precipitation last month was about 100 percent of the monthly average. Seasonal precipitation at this time last year stood at 75 percent of normal. Seasonal precipitation on the **Tulare Lake Region** was 105 percent of normal. Precipitation last month was about 135 percent of the monthly average. Seasonal precipitation at this time last year stood at 60 percent of normal.

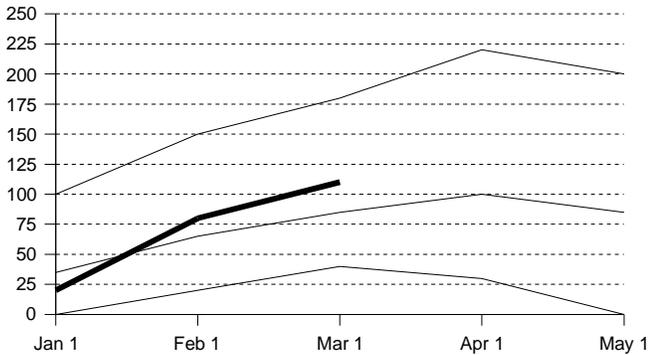
RESERVOIR STORAGE- First of the month storage in 34 **San Joaquin Region** reservoirs was 6.8 million acre-feet which is 95 percent of average. About 60 percent of available capacity was being used. Storage at this time last year was 115 percent of average. First of the month storage in 6 **Tulare Lake Region** reservoirs was 602 thousand acre-feet which is 70 percent of average and about 30 percent of available capacity. Storage in at this time last year was 100 percent of average.

RUNOFF- Seasonal runoff of streams draining the **San Joaquin Region** totaled 736 thousand acre-feet which is 40 percent of average for this period. Last year, runoff for the same period was 40 percent of average. Seasonal runoff of streams draining the **Tulare Lake Basin** totaled 346 thousand acre-feet which is 55 percent of average for this period. Last year runoff for this same period was 45 percent of average. The **San Joaquin Region 60-20-20 Water Supply Index** is forecast to be 2.6 assuming 75 percent 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

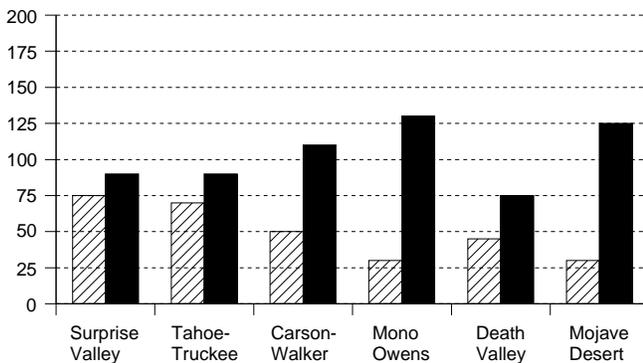
Snowpack Accumulation

Water Content in % of April 1 Average



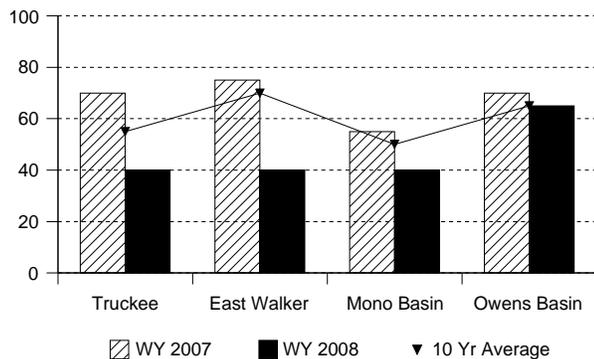
Precipitation

October 1 to date in % of Average



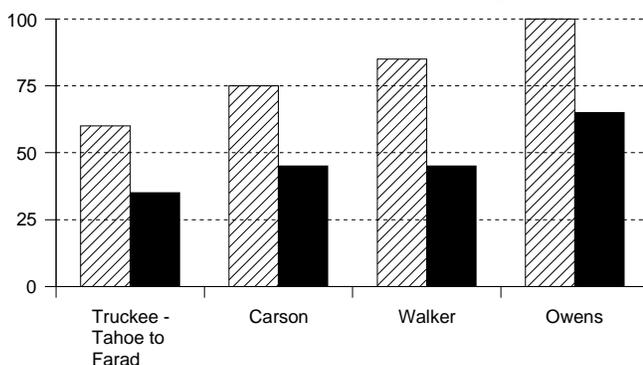
Reservoir Storage

Contents of major reservoirs in % of capacity



Runoff

October 1 to date in % of average



SNOWPACK- First of the month measurements made at 12 **North Lahontan snow** courses indicate an area wide snow water equivalent of 27.5 inches. This is 125 percent of the March 1 average and 110 percent of seasonal (April 1) average. Last year at this time the pack was holding 16.4 inches of water. At the same time 17 **South Lahontan Region** snow courses indicated a basin-wide snow water equivalent of 21.5 inches which is 135 percent of the average for March 1 and 110 percent of the seasonal average. Last year at this time the basin was holding 8.1 inches of water.

PRECIPITATION - Seasonal precipitation (October 1 through the end of last month) on the **North Lahontan** was 95 percent of normal. Precipitation last month was about 105 percent of the monthly average. Seasonal precipitation at this time last year stood at 65 percent of normal. Seasonal precipitation on the **South Lahontan** was 110 percent of normal. Precipitation last month was about 35 percent of the monthly average. Seasonal precipitation at this time last year stood at 35 percent of normal.

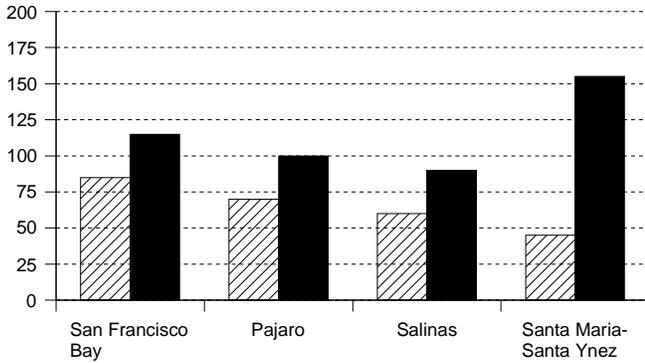
RESERVOIR STORAGE- First of the month storage in 5 **North Lahontan** reservoirs was 441 thousand acre-feet which is 80 percent of average. About 40 percent of available capacity was being used. Storage in these reservoirs at this time last year was 135 percent of average. Lake Tahoe was 2.2 feet above its natural rim on March 1. First of the month storage in 8 **South Lahontan** reservoirs was 263 thousand acre-feet which is 100 percent of average and about 65 percent of available capacity. Storage in these reservoirs at this time last year was 105 percent of average.

RUNOFF- Seasonal runoff of streams draining the **North Lahontan Region** totaled 83 thousand acre-feet which is 40 percent of average for this period. Last year, runoff for the same period was 70 percent of average. Seasonal runoff of the Owens River in the **South Lahontan Region** totaled 37 thousand acre-feet which is 65 percent of average for this period. Last year runoff for this same period was at 100 percent of average.

SAN FRANCISCO BAY AND CENTRAL COAST REGIONS

Precipitation

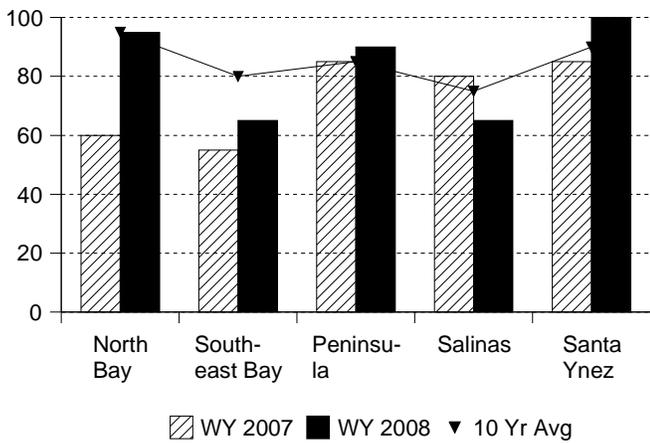
October 1 to date in % of Average



PRECIPITATION - Seasonal precipitation (October 1 through the end of last month) on the **San Francisco Bay Region** was 115 percent of normal. Precipitation last month was about 100 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 115 percent of normal. Precipitation last month was about 65 percent of the monthly average. Seasonal precipitation at this time last year stood at 95 percent of normal.

Reservoir Storage

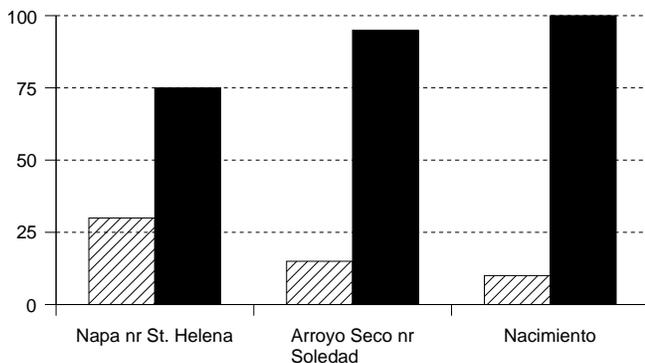
Contents of major reservoirs in % of capacity



RESERVOIR STORAGE- First of the month storage in 14 **San Francisco Bay Region** reservoirs was 400 thousand acre-feet which is 105 percent of average. About 75 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 718 thousand acre-feet which is 110 percent of average and about 75 percent of available capacity. Storage in these reservoirs at this time last year was 120 percent of average.

Runoff

October 1 to date in % of average



RUNOFF- Seasonal runoff of the Napa River in the **San Francisco Bay Region** totaled 40 thousand acre-feet which is 75 percent of average for this period. Last year, runoff for the same period was 30 percent of average. Seasonal runoff of streams draining the **Central Coast Region** totaled 209 thousand acre-feet which is 95 percent of average for this period. Last year runoff for this same period was 15 percent of average.

SOUTH COAST AND COLORADO RIVER REGIONS

PRECIPITATION - October through February (seasonal) precipitation on the **South Coast Region** was 110 percent of normal. February precipitation was 75 percent of the monthly average. Seasonal precipitation at this time last year was 35 percent of normal. Seasonal precipitation on the **Colorado River-Desert Region** was 110 percent of normal and last year's seasonal precipitation on the **Colorado River-Desert Region** was 5 percent of normal. Precipitation in February was 5 percent of average.

RESERVOIR STORAGE - March 1 storage in 29 major **South Coast Region** reservoirs was 1.2 million acre-feet or 85 percent of average. About 65 percent of available capacity was being used. Storage in these reservoirs at this time last year was about 90 percent of average. On March 1 combined storage in Lakes Powell, Mead, Mohave and Havasu was about 26 million acre-feet or about 65 percent of average. About 50 percent of available capacity was in use. Last year at this time, these reservoirs were storing about 28 million acre-feet.

RUNOFF - Seasonal runoff from selected **South Coast Region** streams totaled 25 thousand acre-feet which is 90 percent of average. Seasonal runoff from these streams last year was 25 percent of average.

COLORADO RIVER - The April -July inflow to Lake Powell is forecast to be 9.5 million acre-feet, which is 120 percent of average. The March 1 snowpack in the was 125 percent, highest in San Juan basin at 154 percent of average and lowest on the Upper Green at 88 percent.

CENTRAL VALLEY PROJECT

As of February 29, 2008, Northern CVP storage was 6.9 million acre-feet, which is a decrease of 2.1 million acre-feet compared to one year ago and is approximately 81% of average for that date. On February 15, 2008, the Bureau of Reclamation notified Sacramento River Settlement Contractors, San Joaquin River Exchange Contractors, and water rights contractors receiving water from the Mendota Pool that they would receive full allocations. The initial 2008 water supply allocation for the other CVP contractors followed on February 27, 2008. Based on a conservative water supply forecast prepared from information available February 1, 2008, CVP water supplies were: Agricultural contractors North of Delta 45% and South of Delta 45%; Urban contractors North of Delta 75% and South of Delta 75%; Sacramento River water rights and San Joaquin Exchange Contractors 100%; Wildlife Refuges 100%; Eastside Division contractors (Stanislaus River) projected to be 15% (24,000 acre-feet); Friant Division contractors 100% of Class 1 and 0% of Class 2. Updated allocations will be announced in mid-March.

The forecast of CVP operations is available on the Mid-Pacific Region's website at <http://www.usbr.gov/mp>.

**MAJOR WATER DISTRIBUTION PROJECTS
RESERVOIR STORAGE**

(AVERAGES BASED ON 1951-2000 OR PERIOD RECORD)

RESERVOIR	CAPACITY 1,000 AF	AVERAGE STORAGE 1,000 AF	2007 1,000 AF	STORAGE AT END OF February		
				2008 1,000 AF	PERCENT AVERAGE	PERCENT CAPACITY
<i>STATE WATER PROJECT</i>						
Lake Oroville	3,538	2,523	3,009	1,449	57%	41%
San Luis Reservoir (SWP)	1,062	943	1,153	913	97%	86%
Lake Del Valle	77	34	28	41	119%	53%
Lake Silverwood	73	66	66	71	108%	98%
Pyramid Lake	171	163	161	136	84%	80%
Castaic Lake	325	271	222	312	115%	96%
Perris Lake	132	117	68	73	63%	56%
<i>CENTRAL VALLEY PROJECT</i>						
Trinity Lake	2,448	1,851	1,900	1,486	80%	61%
Lake Shasta	4,552	3,370	3,772	2,641	78%	58%
Whiskeytown Lake	241	207	206	212	102%	88%
Folsom Lake	977	554	589	371	67%	38%
New Melones Reservoir	2,420	1,440	2,001	1,531	106%	63%
Millerton Lake	520	345	209	264	76%	51%
San Luis Reservoir (CVP)	971	816	743	862	106%	89%
<i>COLORADO RIVER PROJECT</i>						
Lake Mead	26,159	20,494	14,288	13,062	64%	50%
Lake Powell	24,322	18,176	11,552	10,880	60%	45%
Lake Mohave	1,810	1,683	1,638	1,593	95%	88%
Lake Havasu	619	550	542	551	100%	89%
<i>EAST BAY MUNICIPAL UTILITY DISTRICT</i>						
Pardee Res	198	181	176	174	96%	88%
Camanche Reservoir	417	252	307	207	82%	50%
East Bay (4 res.)	147	132	115	118	89%	80%
<i>CITY AND COUNTY OF SAN FRANCISCO</i>						
Hetch-Hetchy Reservoir	360	148	226	168	113%	47%
Cherry Lake	268	125	249	152	121%	57%
Lake Eleanor	26	10	15	2	24%	9%
South Bay/Peninsula (4 res.)	225	172	151	166	97%	74%
<i>CITY OF LOS ANGELES (D.W.P.)</i>						
Lake Crowley	183	126	135	126	100%	69%
Grant Lake	48	27	37	23	83%	48%
Other Aqueduct Storage (6 res.)	83	75	57	54	72%	65%

TELEMETERED SNOW WATER EQUIVALENTS

March 1, 2008

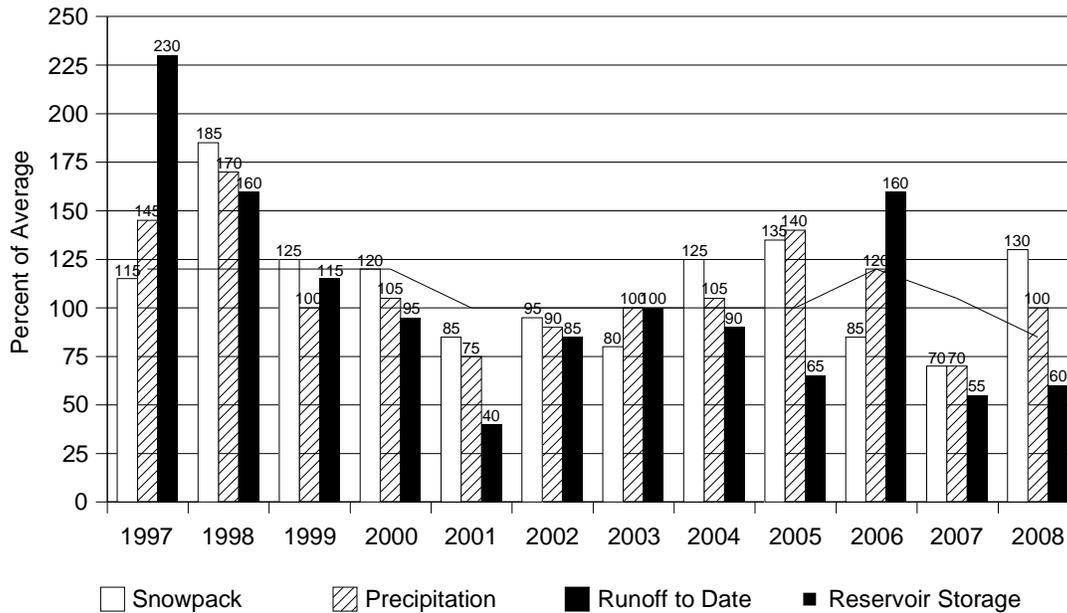
(AVERAGES BASED ON PERIOD RECORD)

BASIN NAME	STATION NAME	ELEV	INCHES OF WATER EQUIVALENT				
			APRIL 1 AVERAGE	PERCENT Mar 1 OF AVERAGE	24 HRS PREVIOUS	1 WEEK PREVIOUS	
TRINITY RIVER							
	Peterson Flat	7150'	29.2	32.5	111.3	32.4	29.6
	Bonanza King	6450'	40.5	45.8	113.2	45.8	41.3
	Shimmy Lake	6400'	40.3	46.8	116.0	46.8	43.7
	Middle Boulder 3	6200'	28.3	35.0	123.5	35.0	31.3
	Highland Lakes	6030'	29.9	40.9	136.9	41.0	37.3
	Scott Mountain	5900'	16.0	30.1	188.2	30.1	27.1
	Big Flat	5100'	15.8	27.6	174.5	27.4	25.4
	Crowder Flat	5100'	—	7.9	—	7.9	7.8
SACRAMENTO RIVER							
	Cedar Pass	7100'	18.1	15.4	85.1	15.4	14.8
	Sand Flat	6750'	42.4	29.9	70.6	29.9	27.1
	Medicine Lake	6700'	32.6	21.8	67.0	21.8	19.9
	Adin Mountain	6200'	13.6	13.8	101.5	13.8	13.5
	Snow Mountain	5950'	27.0	38.4	142.2	38.4	33.5
	Slate Creek	5700'	29.0	50.1	172.7	50.1	42.6
FEATHER RIVER							
	Lower Lassen Peak	8250'	—	74.9	—	74.9	67.1
	Kettle Rock	7300'	25.5	24.6	96.4	24.6	22.3
	Grizzly Ridge	6900'	29.7	22.2	74.7	21.9	18.3
	Pilot Peak	6800'	52.6	37.8	71.9	38.0	32.9
	Gold Lake	6750'	36.5	29.1	79.8	29.1	25.8
	Humbug	6500'	28.0	34.9	124.7	34.8	30.2
	Harkness Flat	6200'	28.5	27.2	95.4	27.3	24.6
	Rattlesnake	6100'	14.0	26.5	189.3	26.9	23.4
	Bucks Lake	5750'	44.7	57.2	128.1	57.1	50.8
	Four Trees	5150'	20.0	44.5	222.4	44.6	41.0
EEL RIVER							
	Noel Spring	5100'	—	29.7	—	30.0	25.3
YUBA & AMERICAN RIVERS							
	Schneiders	8750'	34.5	32.5	94.3	32.6	29.3
	Carson Pass	8353'	—	26.9	—	26.9	23.7
	Caples Lake	8000'	30.9	26.6	86.1	26.6	24.1
	Alpha	7600'	35.9	33.2	92.6	33.6	30.4
	Meadow Lake	7200'	55.5	39.5	71.1	39.7	35.4
	Silver Lake	7100'	22.7	25.7	113.0	25.7	22.8
	Central Sierra Snow Lab	6900'	33.6	37.6	111.9	37.5	33.3
	Huysink	6600'	42.6	32.5	76.3	32.5	28.8
	Van Vleck	6700'	35.9	39.1	108.8	39.3	35.1
	Robinson Cow Camp	6480'	—	41.6	—	41.3	34.9
	Robbs Saddle	5900'	21.4	26.5	123.7	26.5	23.6
	Greek Store	5600'	21.0	—	—	—	—
	Blue Canyon	5280'	9.0	35.9	398.8	36.0	33.0
	Robbs Powerhouse	5150'	5.2	21.7	416.9	21.7	19.3
MOKELUMNE & STANISLAUS RIVERS							
	Deadman Creek	9250'	37.2	29.2	78.6	29.4	23.5
	Highland Meadow	8700'	47.9	34.4	71.7	34.4	30.0
	Gianelli Meadow	8400'	55.5	36.4	65.6	36.4	31.2
	Lower Relief Valley	8100'	41.2	35.9	87.0	35.9	31.4
	Blue Lakes	8000'	33.1	25.5	77.0	25.4	22.5
	Mud Lake	7900'	44.9	41.1	91.5	41.1	37.1
	Stanislaus Meadow	7750'	47.5	36.6	77.1	36.6	31.3
	Bloods Creek	7200'	35.5	30.1	84.8	30.1	26.4
	Black Springs	6500'	32.0	31.6	98.7	31.6	27.8
TUOLUMNE & MERCED RIVERS							
	Dana Meadows	9800'	27.7	33.5	120.9	33.6	29.0
	Slide Canyon	9200'	41.1	34.2	83.3	34.3	30.5
	Lake Tenaya	8150'	33.1	29.0	87.5	29.1	25.9
	Tuolumne Meadows	8600'	22.6	20.0	88.6	20.0	17.1
	Horse Meadow	8400'	48.6	42.0	86.4	42.1	36.6
	Ostrander Lake	8200'	34.8	29.9	86.1	30.0	25.8
	White Wolf	7900'	—	30.4	—	30.5	26.4
	Paradise Meadow	7650'	41.3	35.5	85.9	35.5	30.9
	Gin Flat	7050'	34.2	30.6	89.5	30.6	26.3
	Lower Kibbie Ridge	6700'	27.4	26.0	95.0	26.1	22.3

SAN JOAQUIN RIVER							
Volcanic Knob	10050'	30.1	26.6	88.4	26.6	24.0	
Agnew Pass	9450'	32.3	27.7	85.8	27.8	23.6	
Kaiser Point	9200'	37.8	29.3	77.6	29.2	24.4	
Green Mountain	7900'	30.8	32.2	104.5	32.2	27.3	
Devil's Postpile	7569'	—	31.5	—	32.0	28.7	
Tamarack Summit	7550'	30.5	33.5	109.7	33.5	29.3	
Chilkoot Meadow	7150'	38.0	44.9	118.1	44.9	36.6	
Huntington Lake	7000'	20.1	26.9	133.7	26.9	23.9	
Graveyard Meadow	6900'	18.8	27.2	144.9	27.1	22.1	
Poison Ridge	6900'	28.9	36.4	125.8	36.5	31.6	
KINGS RIVER							
Bishop Pass	11200'	34.0	20.5	60.2	20.5	17.5	
Charlotte Lake	10400'	27.5	29.6	107.8	30.2	26.6	
Blackcap Basin	10300'	34.3	34.1	99.3	34.1	30.5	
Upper Burnt Corral	9700'	34.6	28.8	83.1	28.8	24.7	
Big Meadows	7600'	25.9	37.1	143.1	37.2	32.9	
KAWEAH & TULE RIVERS							
Farewell Gap	9500'	34.5	43.5	126.2	43.6	39.4	
Quaking Aspen	7200'	21.0	36.5	173.8	36.4	33.2	
Giant Forest	6650'	10.0	19.0	190.0	19.6	17.3	
KERN RIVER							
Upper Tyndall Creek	11400'	27.7	23.9	86.3	23.8	21.3	
Crabtree Meadow	10700'	19.8	17.8	89.6	17.9	15.6	
Chagoopa Plateau	10300'	21.8	22.6	103.9	22.9	19.2	
Pascoes	9150'	24.9	31.5	126.5	31.0	27.1	
Tunnel Guard Station	8900'	15.6	18.9	121.2	19.0	16.9	
Casa Vieja Meadows	8300'	20.9	26.4	126.3	26.4	23.3	
Beach Meadows	7650'	11.0	15.8	144.0	15.7	13.8	
SURPRISE VALLEY AREA							
Dismal Swamp	7050'	29.2	20.8	71.2	20.8	19.6	
TRUCKEE RIVER							
Independence Lake	8450'	41.4	34.1	82.4	34.1	30.5	
Big Meadows	8700'	25.7	18.8	73.2	19.0	17.9	
Squaw Valley	8200'	46.5	36.0	77.4	36.0	32.1	
Independence Camp	7000'	21.8	19.0	87.2	19.0	16.7	
Independence Creek	6500'	12.7	17.7	139.4	17.8	15.5	
Truckee 2	6400'	14.3	18.2	127.3	18.0	15.8	
LAKE TAHOE BASIN							
Mount Rose Ski Area	8900'	38.5	31.5	81.8	31.5	27.8	
Heavenly Valley	8800'	28.1	22.3	79.4	22.4	20.5	
Hagans Meadow	8000'	16.5	19.1	115.8	19.0	17.4	
Marlette Lake	8000'	21.1	21.8	103.3	21.8	20.3	
Echo Peak 5	7800'	39.5	39.5	100.0	39.7	36.8	
Rubicon Peak 2	7500'	29.1	24.4	83.8	24.4	21.6	
Tahoe City Cross	6750'	16.0	16.4	102.5	16.9	15.8	
Ward Creek 3	6750'	39.4	35.2	89.3	34.9	30.8	
Fallen Leaf Lake	6250'	7.0	—	—	—	—	
CARSON RIVER							
Ebbetts Pass	8700'	38.8	28.2	72.7	28.1	23.4	
Horse Meadow	8557'	—	20.3	—	20.3	18.3	
Forestdale Creek	8017'	—	30.4	—	30.2	26.8	
Poison Flat	7900'	16.2	21.1	130.2	20.9	17.3	
Monitor Pass	8350'	—	16.1	—	15.9	13.4	
Spratt Creek	6150'	4.5	12.1	268.9	12.4	10.6	
WALKER RIVER							
Leavitt Lake	9600'	—	47.4	—	47.3	41.5	
Summit Meadow	9313'	—	25.0	—	25.0	21.4	
Virginia Lakes	9300'	20.3	19.3	95.1	19.2	16.1	
Lobdell Lake	9200'	17.3	19.0	109.8	19.0	16.3	
Sonora Pass Bridge	8750'	26.0	22.8	87.7	22.7	19.5	
Leavitt Meadows	7200'	8.0	18.7	233.8	18.6	15.7	
OWENS RIVER/MONO LAKE							
Gem Pass	10750'	31.7	30.9	97.4	30.8	26.7	
Sawmill	10200'	19.4	16.0	82.5	16.0	13.9	
Cottonwood Lakes	10150'	11.6	17.4	150.2	17.4	14.9	
Big Pine Creek	9800'	17.9	22.8	127.3	22.7	19.9	
South Lake	9600'	16.0	19.8	123.8	19.8	17.4	
Mammoth Pass	9300'	42.4	34.8	82.1	34.8	28.8	
Rock Creek Lakes	10000'	14.0	19.4	138.8	19.5	18.3	

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

The 76th Western Snow Conference (WSC) will be held in Hood River, OR 15-17 April 2008, hosted by the North Pacific Region. For further information regarding the Western Snow Conference contact Frank Gehrke at 916-574-2635 or gridley@water.ca.gov. Information is available on the web at <http://www.westernsnowconference.org>

Depicted on this month's cover is Don Paulsen digging out the Bond Pass snow survey cabin on March 1, 1952.

SNOWPACK-Snow data is a major index of spring and summer runoff from Sierra Nevada watersheds. April 1 data historically reflects the magnitude of the snowpack at or near the maximum seasonal accumulation. Averages are based on April 1 data for the period 1951-2000 (50 years, except for data sites established after 1951).

PRECIPITATION -Averages are usually based on data for the period 1951-2000 (50 years, except for data sites established after 1951).

RUNOFF AND FORECASTS -Runoff data and runoff forecasts are shown as unimpaired values. Unimpaired runoff represents the natural water production of a river basin, unaltered by upstream diversions, storage, or by export or import of water to or from other watersheds. Forecast of runoff assumes median conditions subsequent to the date of forecast.

Runoff probability ranges are statistically derived from historical data. The 80 percent probability range is comprised of the 90 percent exceedence level value and the 10 percent exceedence level value. This means that actual runoff should fall within the stated limits eight times out of ten.

Runoff averages for most streams are based on the period 1956-2005.

Reservoir storage averages are based on the period from 1956 (or beginning of operation) to 2005.

For more details contact California Cooperative Snow Surveys, P.O. Box 219000, Sacramento, CA 95821-9000, (916) 574-2635 or gridley@water.ca.gov.

INDICES OF WATER AVAILABILITY

The Sacramento River water year unimpaired runoff is the sum of: Sacramento River above Bend Bridge, Feather River Inflow to Lake Oroville, Yuba River near Smartville and American River Inflow to Folsom Lake.

The Sacramento Valley Water Year Hydrologic Classification (40-30-30 Index). The values 40-30-30 represent the percentage weight given to the three variables in the formula for the index. The first variable is the forecasted unimpaired runoff from April through July (40 percent). The second variable is the forecasted unimpaired runoff from October through March (30 Percent). The third variable is the previous year's index with a cap to account for required flood control releases during wet years. The basins used in this computation are those used in the Sacramento River water year unimpaired runoff.

The San Joaquin Valley Water Year Hydrologic Classification (60-20-20 Index). In a similar manner the values 60-20-20 represent the percentage weights on April through July runoff, October through March runoff and previous year's Index. The San Joaquin River unimpaired runoff is the sum of: Stanislaus River below Goodwin, Tuolumne River below La Grange, Merced River below Merced Falls and San Joaquin River Inflow to Millerton Lake.

Runoff of the eight major rivers of the Sacramento and San Joaquin Regions is the sum of the runoff in the eight major rivers used in the two above indices.

State of California – The Resources Agency
DEPARTMENT OF WATER RESOURCES
P.O. Box 942836
Sacramento, CA 94236-0001

First Class

