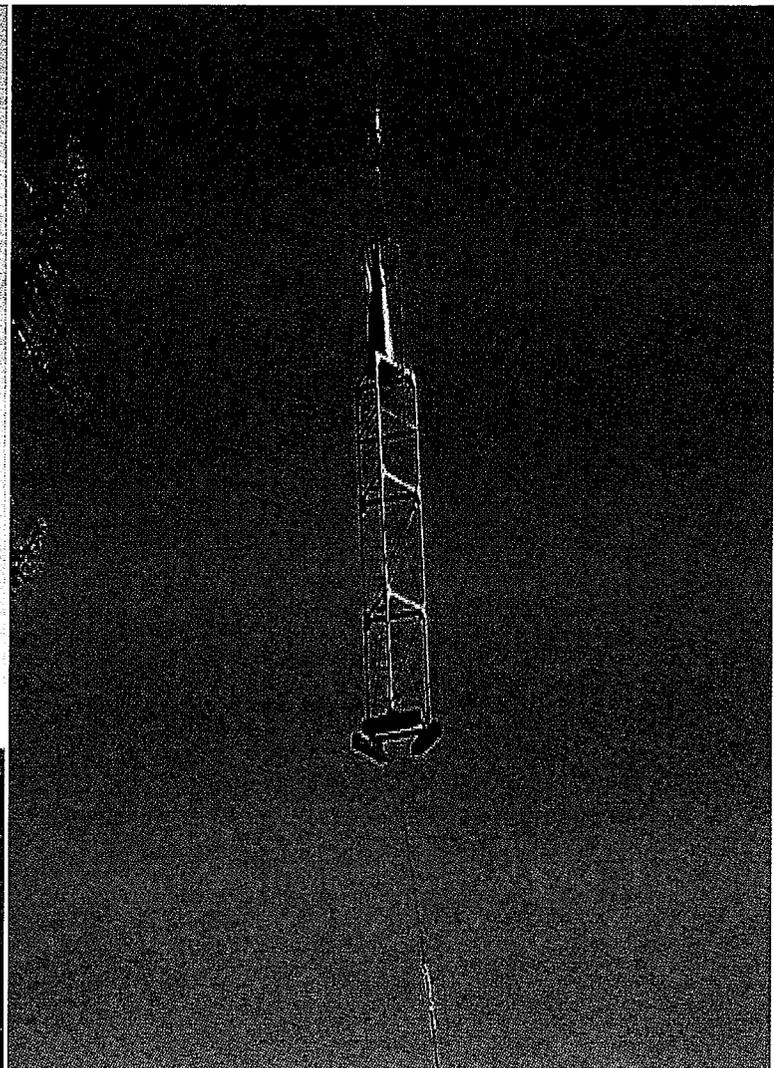


California Cooperative
Snow Surveys
Bulletin 120-5-03



State of California
The Resources Agency

Department of
Water Resources

Water Conditions in California

Report 3 April 1, 2005



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
Director

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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 Exchange Contractors Water Association
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

April 1, 2005

The first half of March was warm and dry raising concerns about a repeat of the dry spring of last year. Near the middle of the month weather patterns turned cool and wet with several storms boosting snowpack more than average for the month, especially in the central and southern Sierra. The rain plus anticipated snowmelt resulted in moderate flood control releases from a number of foothill reservoirs from Folsom Lake south. The water supply outlook has improved some from a month ago with excellent water supply prospects for most users, except in the far north and the conveyance limited west side of the San Joaquin Valley.

Forecasts of April through July runoff are 115 percent of average statewide ranging from 95 percent on the North Coast to about 145 percent in the San Joaquin River region. The Upper Klamath remains dismal at 42 percent. Water year forecasts are less at about average overall.

Snowpack water content is 135 percent of average compared to 85 percent last year. This is the most since 1998. The range is from 95 percent on the North Coast to 170 percent in the Tulare Lake region. The gain during March was about average in the north but well above average in the central and southern Sierra.

Precipitation from October through March was about 140 percent of average compared to 95 percent at this time last year. Precipitation during March was 130 percent of average. In contrast to earlier months southern California rainfall was less than average in March while all the other regions exceeded their March average.

Runoff so far this season is still below average at 75 percent statewide, held down by lower percentages in the North Coast and the northern Sacramento River region. Central and southern California runoff is much above average. Last year seasonal runoff to date was 90 percent of average. Estimated runoff of the eight major rivers of the Sacramento and San Joaquin River region was 3.7 million acre-feet during March, about the same as last year.

Reservoir storage gained about 2.9 million acre-feet during March, more than normal, and now stands at 105 percent of average for the date. Last year storage was also at 105 percent. Regional percentages are highest in the south and lowest in the North Lahontan where Lake Tahoe remains quite low.

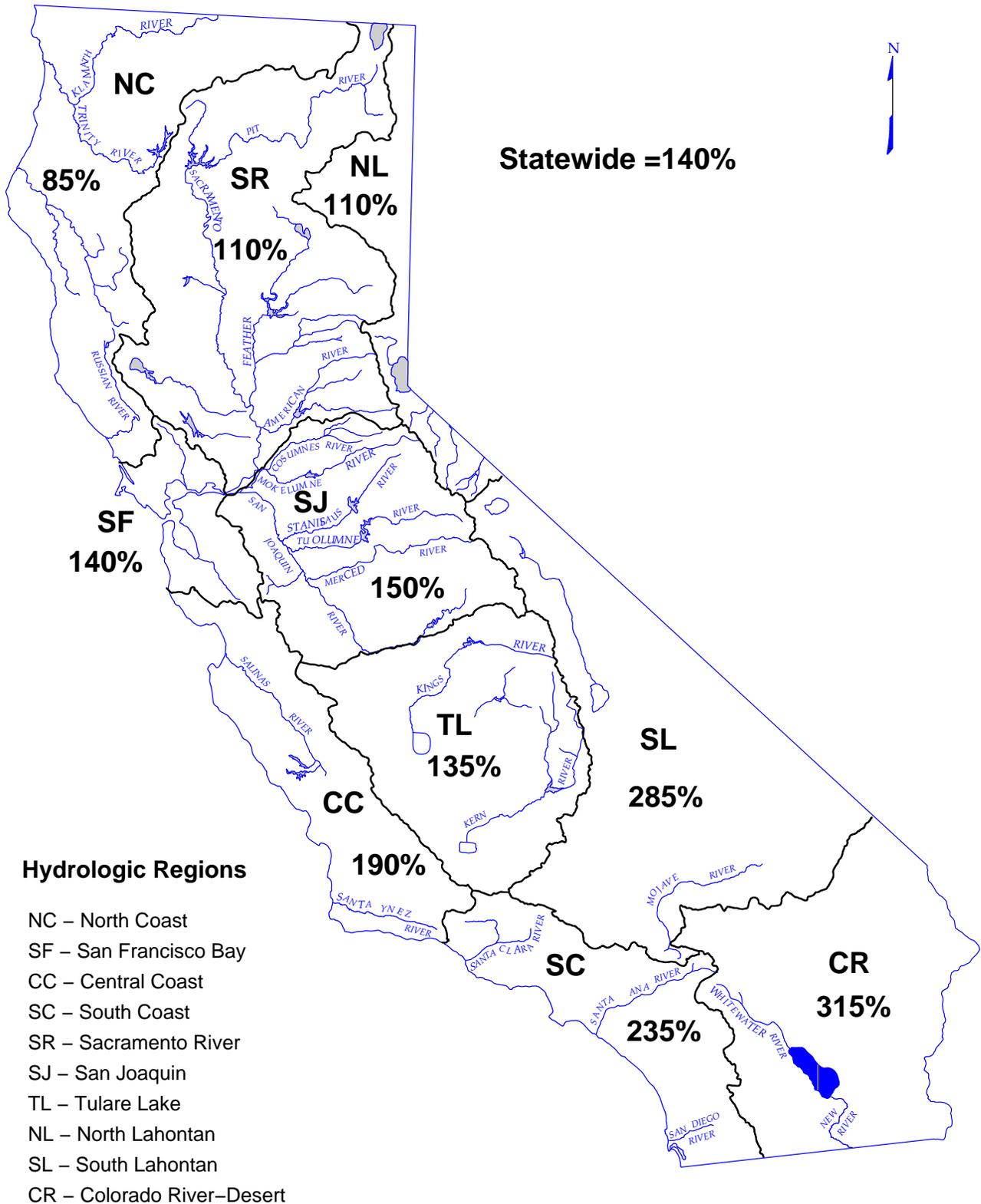
SUMMARY OF WATER CONDITIONS IN PERCENT OF AVERAGE

HYDROLOGIC REGION	PRECIPITATION OCTOBER 1 TO DATE	April 1 SNOW WATER CONTENT	April 1 RESERVOIR STORAGE	RUNOFF OCTOBER 1 TO DATE	APR-JULY RUNOFF FORECAST	WATER YEAR RUNOFF FORECAST
NORTH COAST	85	95	95	60	95	85
SAN FRANCISCO BAY	140	--	110	90	--	--
CENTRAL COAST	190	--	125	205	--	--
SOUTH COAST	235	--	110	315	--	--
SACRAMENTO RIVER	110	110	100	70	95	80
SAN JOAQUIN RIVER	150	160	120	130	145	135
TULARE LAKE	135	170	100	110	135	130
NORTH LAHONTAN	110	140	40	70	115	105
SOUTH LAHONTAN	285	165	100	75	135	125
COLORADO RIVER- DESERT	315	--	--	--	--	--
STATEWIDE	140	135	105	75	115	100

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

IN PERCENT OF AVERAGE TO DATE

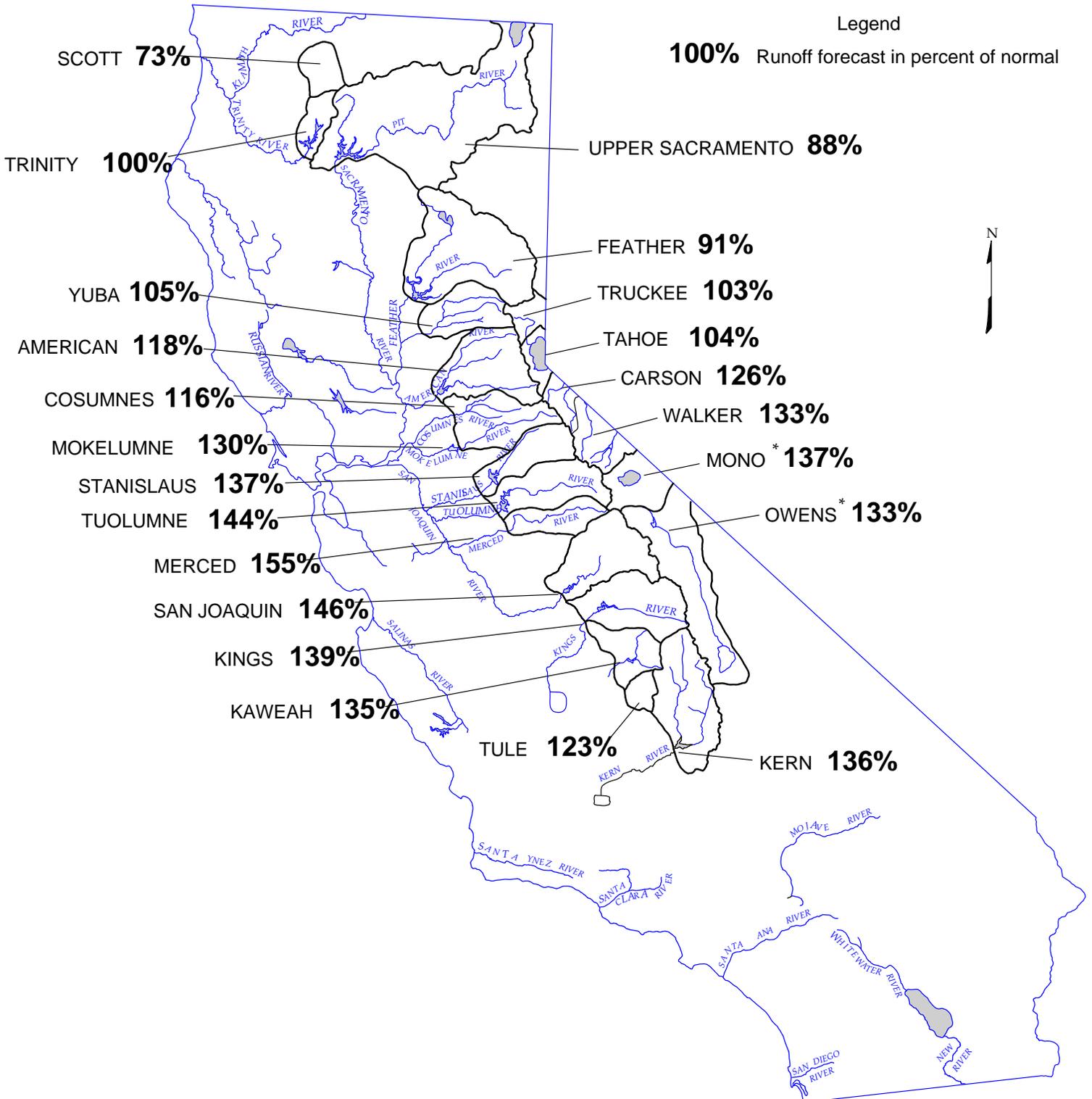
October 1, 2004 through March 31, 2005



WATER YEAR IS OCTOBER 1 THROUGH SEPTEMBER 30

**DEPARTMENT OF WATER RESOURCES
CALIFORNIA COOPERATIVE SNOW SURVEYS
FORECAST OF APRIL – JULY
UNIMPAIRED SNOWMELT RUNOFF**

April 1, 2005



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

**APRIL 1, 2005 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 (3)	299	711	39	295	99%	
McCloud River above Shasta Lake	400	850	185	390	98%	
Pit River near Montgomery Creek + Squaw Creek	1,090	2,098	480	860	79%	
Total Inflow to Shasta Lake	1,849	3,525	726	1,620	88%	1,260 - 2,260
Sacramento River above Bend Bridge, near Red Bluff	2,521	5,075	943	2,200	87%	1,680 - 3,120
Feather River						
Feather River at Lake Almanor near Prattville (3)	333	675	120	300	90%	
North Fork at Pulga (3)	1,028	2,416	243	940	91%	
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	1,870	4,676	392	1,710	91%	1,370 - 2,410
Yuba River						
North Yuba below Goodyears Bar (3)	286	647	51	290	101%	
Inflow to Jackson Mdws and Bowman Reservoirs (3)	112	236	25	115	103%	
South Yuba at Langs Crossing (3)	233	481	57	250	107%	
Yuba River near Smartville plus Deer Creek	1,044	2,424	200	1,100	105%	900 - 1,470
American River						
North Fork at North Fork Dam (3)	262	716	43	300	115%	
Middle Fork near Auburn (3)	522	1,406	100	620	119%	
Silver Creek Below Camino Diversion Dam (3)	173	386	37	210	121%	
American River below Folsom Lake	1,282	3,074	229	1,510	118%	1,300 - 1,970
SAN JOAQUIN RIVER						
Cosumnes River at Michigan Bar	130	363	8	150	116%	110 - 220
Mokelumne River						
North Fork near West Point (5)	437	829	104	550	126%	
Total Inflow to Pardee Reservoir	469	1,065	102	610	130%	520 - 740
Stanislaus River						
Middle Fork below Beardsley Dam (3)	334	702	64	460	138%	
North Fork Inflow to McKays Point Dam (3)	224	503	34	310	138%	
Stanislaus River below Goodwin Reservoir (7)	716	1,710	116	980	137%	830 - 1,160
Tuolumne River						
Cherry Creek & Eleanor Creek near Hetch Hetchy (3)	322	727	97	450	140%	
Tuolumne River near Hetch Hetchy (3)	606	1,392	153	870	144%	
Tuolumne River below La Grange Reservoir (7)	1,230	2,682	301	1,770	144%	1,620 - 2,050
Merced River						
Merced River at Pohono Bridge (3)	362	888	80	560	155%	
Merced River below Merced Falls (7)	633	1,587	123	980	155%	830 - 1,120
San Joaquin River						
San Joaquin River at Mammoth Pool (6)	1,014	2,279	235	1,460	144%	
Big Creek below Huntington Lake (6)	95	264	11	140	147%	
South Fork near Florence Lake (6)	202	511	58	280	139%	
San Joaquin River inflow to Millerton Lake	1,262	3,355	262	1,840	146%	1,670 - 2,090
TULARE LAKE						
Kings River						
North Fork Kings River near Cliff Camp (3)	239	565	50	340	142%	
Kings River below Pine Flat Reservoir	1,234	3,113	274	1,720	139%	1,560 - 1,940
Kaweah River below Terminus Reservoir	290	814	62	390	135%	365 - 470
Tule River below Lake Success	65	259	2	80	123%	70 - 110
Kern River						
Kern River near Kernville (3)	373	1,203	83	520	139%	
Kern River inflow to Lake Isabella	470	1,657	84	640	136%	570 - 760

(1) See inside back cover for definition

(2) All 50 year averages are based on years 1951-2000 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

**APRIL 1, 2005 FORECASTS
WATER YEAR UNIMPAIRED RUNOFF**

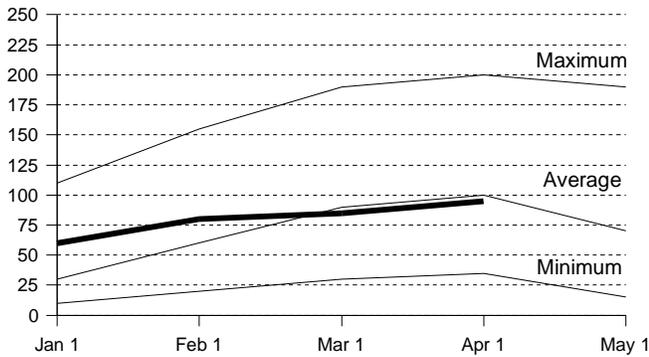
HISTORICAL			Unimpaired Runoff in 1,000 Acre-Feet (1)								FORECAST		
50 Yr Avg (2)	Max of Record	Min of Record	Oct Thru Jan*	Feb *	Mar *	Apr	May	Jun	Jul	Aug & Sep	Water Year Forecasts	Pct of Avg	80 % Probability Range (1)
888	1,965	165											
1,234	2,353	557											
3,217	5,150	1,484											
6,194	10,796	2,479	1,535	500	790	650	465	295	210	410	4,855	78%	4,400 - 5,660
8,990	17,180	3,294	2,465	735	1,240	850	655	395	300	520	7,160	80%	6,515 - 8,290
780	1,269	366											
2,417	4,400	666											
219	637	24											
291	562	32											
4,775	9,492	994	750	325	685	680	585	275	170	150	3,620	76%	3,260 - 4,380
564	1,056	102											
181	292	30											
379	565	98											
2,459	4,926	369	345	155	355	430	445	180	45	45	2,000	81%	1,790 - 2,390
616	1,234	66											
1,070	2,575	144											
318	705	59											
2,830	6,382	349	500	225	520	550	610	285	65	25	2,780	98%	2,560 - 3,266
409	1,253	20	99	48	118	75	55	17	3	2	417	102%	375 - 490
626	1,009	197											
774	1,800	129	115	65	120	165	245	165	35	5	915	118%	820 - 1,050
471	929	88											
1,196	2,952	155	230	110	195	265	385	255	75	25	1,540	129%	1,380 - 1,740
461	1,147	123											
770	1,661	258											
1,974	4,631	383	440	190	325	410	620	550	190	40	2,765	140%	2,610 - 3,080
461	1,020	92											
1,014	2,787	150	280	105	195	230	360	290	100	35	1,595	157%	1,430 - 1,750
1,337	2,964	308											
112	298	14											
248	653	71											
1,851	4,642	362	300	135	225	370	650	585	235	90	2,590	140%	2,390 - 2,930
284	607	58											
1,736	4,287	386	240	85	170	310	600	560	250	95	2,310	133%	2,130 - 2,540
460	1,402	94	70	26	59	90	145	120	35	15	560	122%	530 - 650
153	615	16	34	11	27	30	28	17	5	3	155	102%	145 - 190
558	1,577	163											
741	2,318	175	110	50	90	125	235	195	85	55	945	128%	860 - 1,080

* 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.

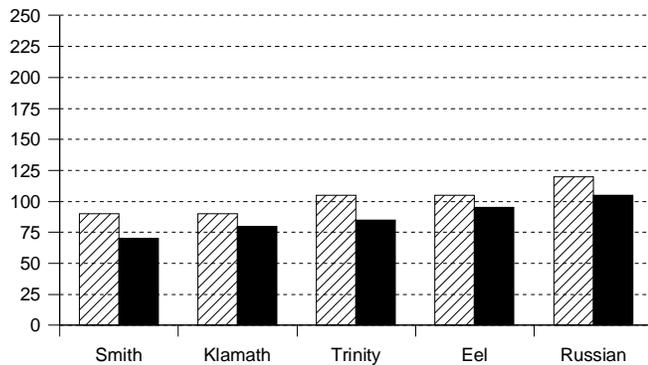
Snowpack Accumulation

Water Content in % of April 1 Average



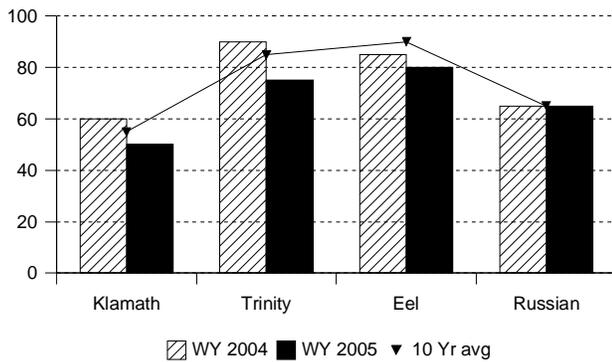
Precipitation

October 1 to date in % of Average



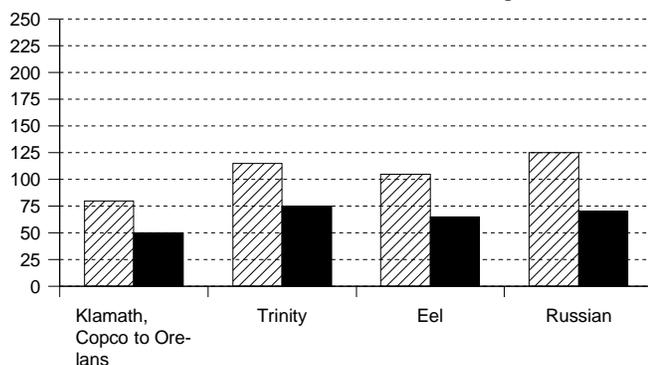
Reservoir Storage

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 16 snow courses indicate an area wide snow water equivalent of 30.4 inches. This is 95 percent of the April 1 average. Last year at this time the pack was holding 33.8 inches of water.

PRECIPITATION - Seasonal precipitation (October 1 through the end of last month) on this area was 85 percent of normal. Precipitation last month was about 125 percent of the monthly average. Seasonal precipitation at this time last year stood at 105 percent of normal.

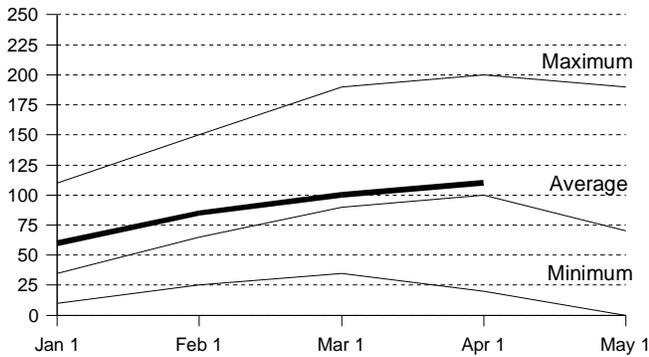
RESERVOIR STORAGE- First of the month storage in 6 reservoirs was 2.3 million acre-feet which is 95 percent of average. About 75 percent of available capacity was being used. Storage in these reservoirs at this time last year was 110 percent of average.

RUNOFF -Seasonal runoff of streams draining the area totaled 6 million acre-feet which is 60 percent of the average for this period. Last year, runoff for the same period was 100 percent of average.

SACRAMENTO RIVER REGION

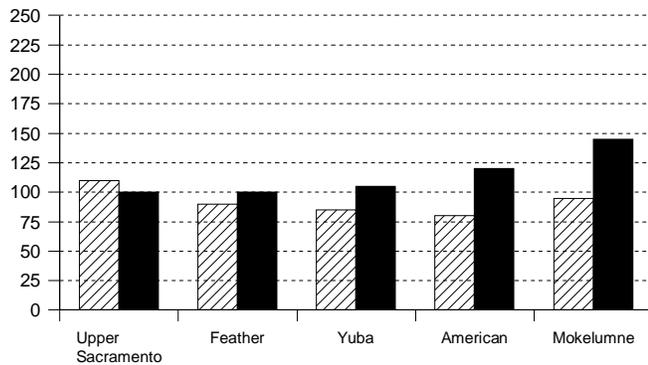
Snowpack Accumulation

Water Content in % of April 1 Average



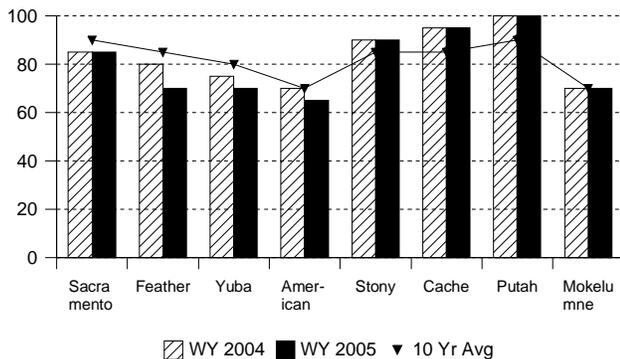
Precipitation

October 1 to date in % of Average



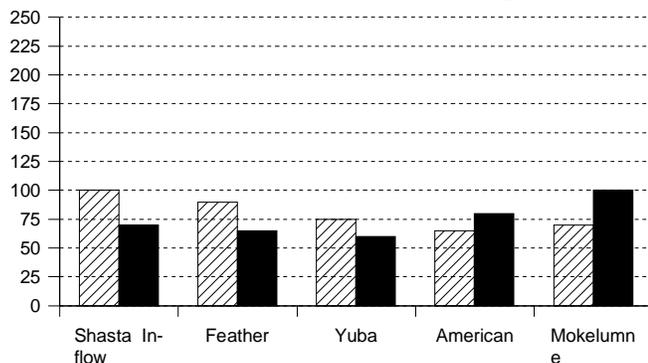
Reservoir Storage

Contents of major reservoirs in % of capacity



Runoff

October 1 to date in % of average



SNOWPACK- First of the month measurements made at 79 snow courses indicate an area wide snow water equivalent of 34.3 inches. This is 110 percent of the April 1 average. Last year at this time the pack was holding 27.8 inches of water.

PRECIPITATION - Seasonal precipitation (October 1 through the end of last month) on this area was 110 percent of normal. Precipitation last month was about 140 percent of the monthly average. Seasonal precipitation at this time last year stood at 100 percent of normal.

RESERVOIR STORAGE- First of the month storage in 43 reservoirs was 12.5 million acre-feet which is 100 percent of average. About 80 percent of available capacity was being used. Storage in these reservoirs at this time last year was 110 percent of average.

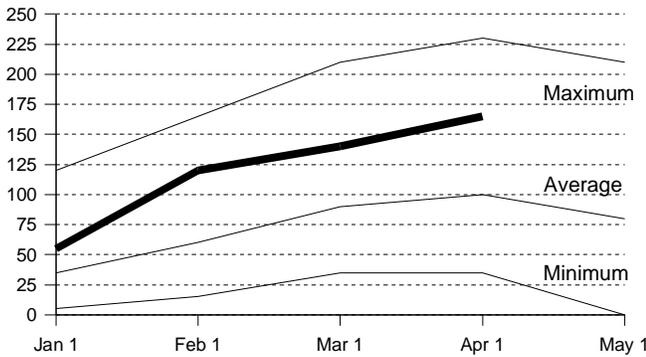
RUNOFF - Seasonal runoff of streams draining the are totaled 8.3 million acre-feet which is 70 percent of average for this period. Last year, runoff for the same period was 95 percent of average.

The **Sacramento Region 40-30-30 Water Supply Index** is forecast to be 7.3 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

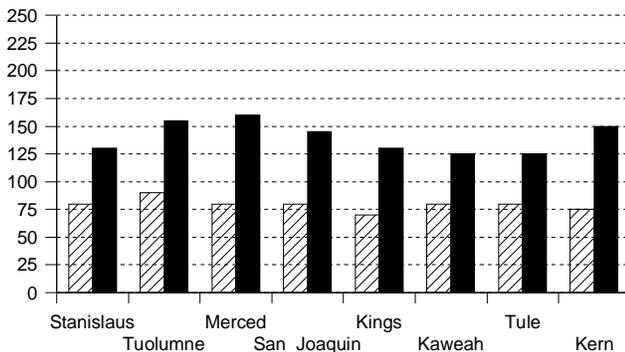
Snowpack Accumulation

Water Content in % of April 1 Average



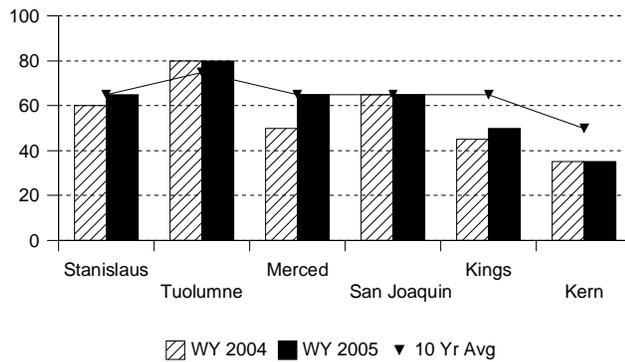
Precipitation

October 1 to date in % of Average



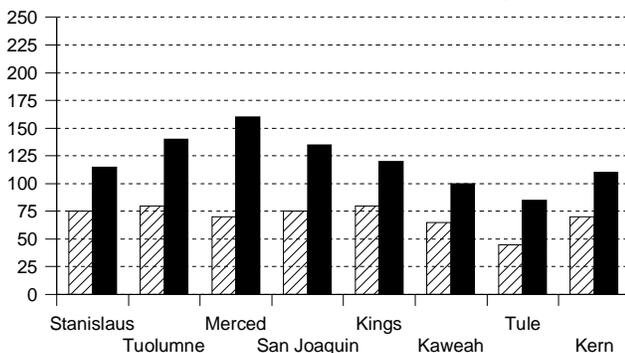
Reservoir Storage

Contents of major reservoirs in % of capacity



Runoff

October 1 to date in % of average



SNOWPACK- First of the month measurements made at 71 **San Joaquin Region** snow courses indicate an area wide snow water equivalent of 49.2 inches. This is 160 percent of the April 1 average. Last year at this time the pack was holding 25.9 inches of water.

At the same time 46 **Tulare Lake Region** snow courses indicated a basin-wide snow water equivalent of 38.7 inches which is 170 percent of the average for April 1. Last year at this time the basin was holding 17.0 inches of water.

PRECIPITATION - Seasonal precipitation (October 1 through the end of last month) on the **San Joaquin Region** was 150 percent of normal. Precipitation last month was about 155 percent of the monthly average. Seasonal precipitation at this time last year stood at 85 percent of normal. Seasonal precipitation on the **Tulare Lake Region** was 135 percent of normal. Precipitation last month was about 145 percent of the monthly average. Seasonal precipitation at this time last year stood at 80 percent of normal.

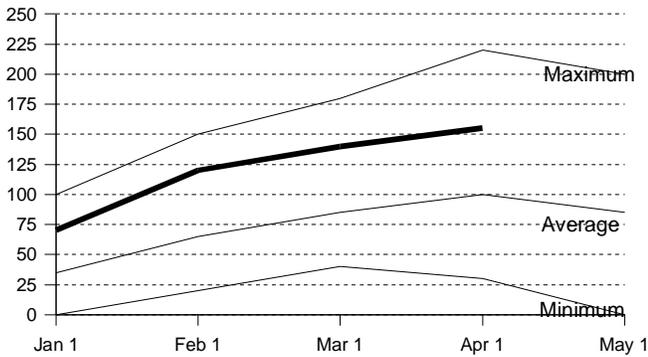
RESERVOIR STORAGE- First of the month storage in 34 **San Joaquin Region** reservoirs was 8.7 million acre-feet which is 120 percent of average. About 75 percent of available capacity was being used. Storage in these reservoirs at this time last year was 110 percent of average. First of the month storage in 6 **Tulare Lake Region** reservoirs was 919 thousand acre-feet which is 100 percent of average and about 45 percent of available capacity. Storage in these reservoirs at this time last year was 90 percent of average.

RUNOFF- Seasonal runoff of streams draining the **San Joaquin Region** totaled 3.3 million acre-feet which is 130 percent of average for this period. Last year, runoff for the same period was 70 percent of average. Seasonal runoff of streams draining the **Tulare Lake Basin** totaled 978 thousand acre-feet which is 110 percent of average for this period. Last year runoff for this same period was 70 percent of average.

The **San Joaquin River Region 60-20-20 Water Supply Index** is forecast to be 4.3 assuming median meteorological conditions. This classifies the year as "wet" in the San Joaquin Region according to the State Water Resources Control Board.

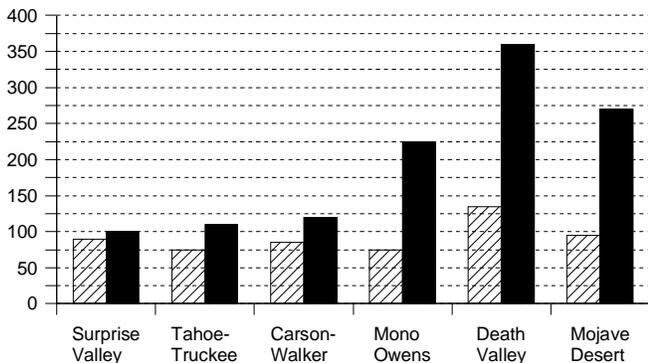
Snowpack Accumulation

Water Content in % of April 1 Average



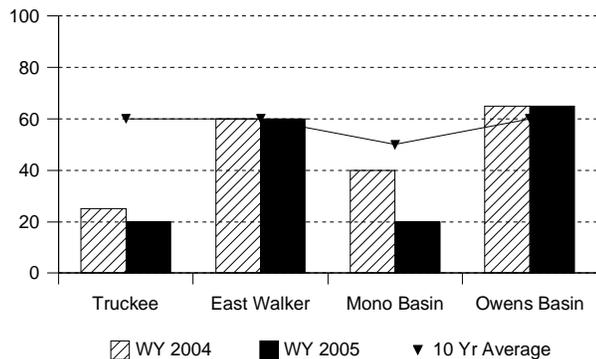
Precipitation

October 1 to date in % of Average



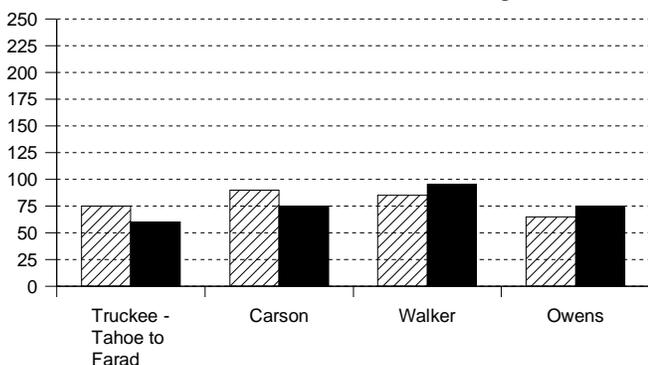
Reservoir Storage

Contents of major reservoirs in % of capacity



Runoff

October 1 to date in % of average



NORTH AND SOUTH LAHONTAN REGIONS

SNOWPACK - First of the month measurements made at 18 **North Lahontan** snow courses indicate an area wide snow water equivalent of 34.8 inches. This is 140 percent of the April 1 average. Last year at this time the pack was holding 23.4 inches of water. At the same time 21 **South Lahontan Region** snow courses indicated a basin-wide snow water equivalent of 33.7 inches which is 165 percent of the average for April 1. Last year at this time the basin was holding 17.8 inches of water.

PRECIPITATION - Seasonal precipitation (October 1 through the end of month) on the **North Lahontan** was 110 percent of normal. Precipitation last month was about 140 percent of the monthly average. Seasonal precipitation at this time last year stood at 85 percent of normal. Seasonal precipitation on the **South Lahontan** was 285 percent of normal. Precipitation last month was about 115 percent of the monthly average. Seasonal precipitation at this time last year stood at 95 percent of normal.

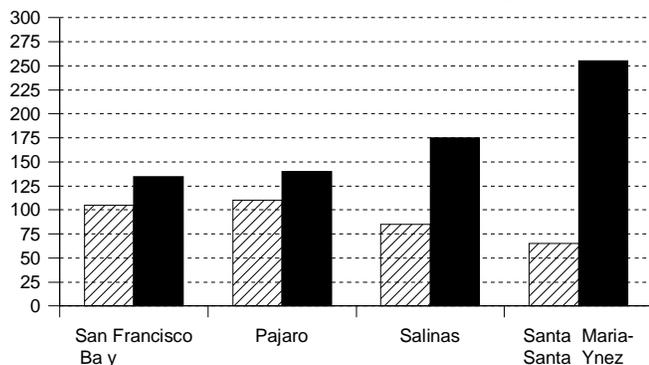
RESERVOIR STORAGE - First of the month storage in 5 **North Lahontan** reservoirs was 233 thousand acre-feet which is 40 percent of average. About 20 percent of available capacity was being used. Storage in these reservoirs at this time last year was 50 percent of average. Lake Tahoe was 0.6 feet above its natural rim on April 1. First of the month storage in 8 **South Lahontan** reservoirs was 257 thousand acre-feet which is 95 percent of average and about 65 percent of available capacity. Storage in these reservoirs at this time last year was 100 percent of average.

RUNOFF - Seasonal runoff of streams draining the **North Lahontan Region** totaled 216 thousand acre-feet which is 70 percent of average for this period. Last year, runoff for the same period was 80 percent of average.

Seasonal runoff of the Owens River in the **South Lahontan** totaled 50 thousand acre-feet which is 75 percent of average for this period. Last year runoff for this same period was 65 percent of average.

Precipitation

October 1 to date in % of Average



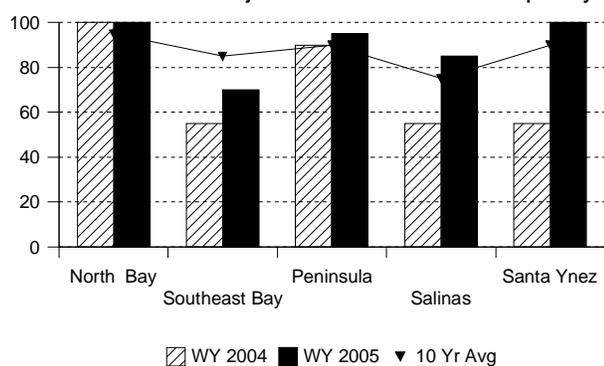
SAN FRANCISCO BAY AND CENTRAL COAST REGIONS

PRECIPITATION - Seasonal precipitation (October 1 through the end of last month) on the **San Francisco Bay Region** was 140 percent of normal. Precipitation last month was about 170 percent of the monthly average. Seasonal precipitation at this time last year stood at 110 percent of normal.

Seasonal precipitation on the **Central Coast Region** was 190 percent of normal. Precipitation last month was about 140 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

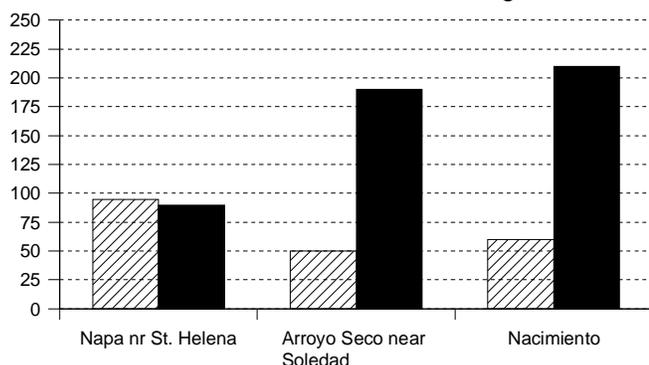


RESERVOIR STORAGE- First of the month storage in 14 **San Francisco Bay Region** reservoirs was 439 thousand acre-feet which is 110 percent of average. About 80 percent of available capacity was being used. Storage in these reservoirs at this time last year was 95 percent of average.

First of the month storage in 6 **Central Coast Region** reservoirs was 864 thousand acre-feet which is 125 percent of average and about 90 percent of available capacity. Storage in these reservoirs at this time last year was 80 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 60 thousand acre-feet which is 90 percent of average for this period. Last year, runoff for the same period was 95 percent of average.

Seasonal runoff of streams draining the **Central Coast Region** totaled 578 thousand acre-feet which is 205 percent of average for this period. Last year runoff for this same period was 55 percent of average.

SOUTH COAST AND COLORADO RIVER REGIONS

PRECIPITATION - October through March (seasonal) precipitation on the **South Coast Region** is 235 percent of normal. March precipitation was 65 percent of the monthly average. Seasonal precipitation at this time last year was 60 percent of normal. Seasonal precipitation on the **Colorado River-Desert Region** is 315 percent of normal. March precipitation was 70 percent of the monthly average. Seasonal precipitation at this time last year stood at 85 percent of average.

RESERVOIR STORAGE – March 31 storage in 29 major **South Coast Region** reservoirs is 1.7 million acre-feet or 110 percent of average. About 85 percent of available capacity is being used. Storage in these reservoirs at this time last year was 85 percent of average. On March 31 combined storage in Lakes Powell, Mead, Mohave and Havasu was about 26.5 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 65 percent of average.

RUNOFF - Seasonal runoff from selected **South Coast Region** streams totaled 118 thousand acre-feet which is 315 percent of average. Seasonal runoff from these streams last year was 35 percent of average.

COLORADO RIVER - The April -July inflow to Lake Powell is forecast to be 8.5 million acre-feet, which is 107 percent of average. The April 1 snowpack in the Colorado River basin above Lake Powell is 115 percent of average, highest in the Duchesne at 155 percent and lowest in the Upper Green at 85 percent.

CENTRAL VALLEY PROJECT

As of March 31, 2005, CVP storage was 8.9 million acre-feet, which is a decrease of 0.3 million acre-feet compared to one year ago and is approximately 105% of normal for that date. The Bureau of Reclamation announced updated water year 2005 supply allocations for the CVP contractors on March 15, 2005. Based on a conservative water supply forecast prepared from information available March 1, 2005, and a water year inflow into Shasta Reservoir of 4.0 million acre-feet, CVP water supplies were: Agricultural contractors North of Delta 65% and South of Delta 65%; Urban contractors North of Delta 90% and South of Delta 90%; Sacramento River water rights and San Joaquin Exchange Contractors 100%; Wildlife Refuges 100%; Eastside Division contractors (Stanislaus River) projected to be 14,000 acre-feet; Friant Division contractors 100% of Class 1 and Uncontrolled Season for Class 2. Updated allocations will be announced in mid-April.

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	2004 1,000 AF	STORAGE AT END OF March		
				2005 1,000 AF	PERCENT AVERAGE	PERCENT CAPACITY
<i>STATE WATER PROJECT</i>						
Lake Oroville	3,538	2,790	3,066	2,458	88%	69%
San Luis Reservoir (SWP)	1,062	984	1,069	1,063	108%	100%
Lake Del Valle	77	37	39	40	107%	52%
Lake Silverwood	73	66	70	74	112%	101%
Pyramid Lake	171	164	166	170	104%	99%
Castaic Lake	325	285	312	289	101%	89%
Perris Lake	132	118	122	122	103%	93%
<i>CENTRAL VALLEY PROJECT</i>						
Trinity Lake	2,448	1,961	2,152	1,842	94%	75%
Lake Shasta	4,552	3,705	3,905	3,827	103%	84%
Whiskeytown Lake	241	213	206	205	96%	85%
Folsom Lake	977	622	707	674	108%	69%
New Melones Reservoir	2,420	1,452	1,496	1,578	109%	65%
Millerton Lake	520	348	440	490	141%	94%
San Luis Reservoir (CVP)	971	870	951	966	111%	100%
<i>COLORADO RIVER PROJECT</i>						
Lake Mead	26,159	20,492	15,255	16,220	79%	62%
Lake Powell	24,322	19,064	10,180	8,015	42%	33%
Lake Mohave	1,810	1,679	1,677	1,689	101%	93%
Lake Havasu	619	556	536	551	99%	89%
<i>EAST BAY MUNICIPAL UTILITY DISTRICT</i>						
Pardee Res	198	181	184	186	103%	94%
Camanche Reservoir	417	252	351	372	148%	89%
East Bay (4 res.)	147	135	141	0	0%	0%
<i>CITY AND COUNTY OF SAN FRANCISCO</i>						
Hetch-Hetchy Reservoir	360	130	230	192	147%	53%
Cherry Lake	268	122	229	229	187%	85%
Lake Eleanor	26	12	20	23	194%	87%
South Bay/Peninsula (4 res.)	225	180	152	170	94%	75%
<i>CITY OF LOS ANGELES (D.W.P.)</i>						
Lake Crowley	183	128	125	139	109%	76%
Grant Lake	48	28	23	16	56%	33%
Other Aqueduct Storage (6 res.)	83	77	55	44	57%	53%

TELEMETERED SNOW WATER EQUIVALENTS

April 1, 2005

(AVERAGES BASED ON PERIOD RECORD)

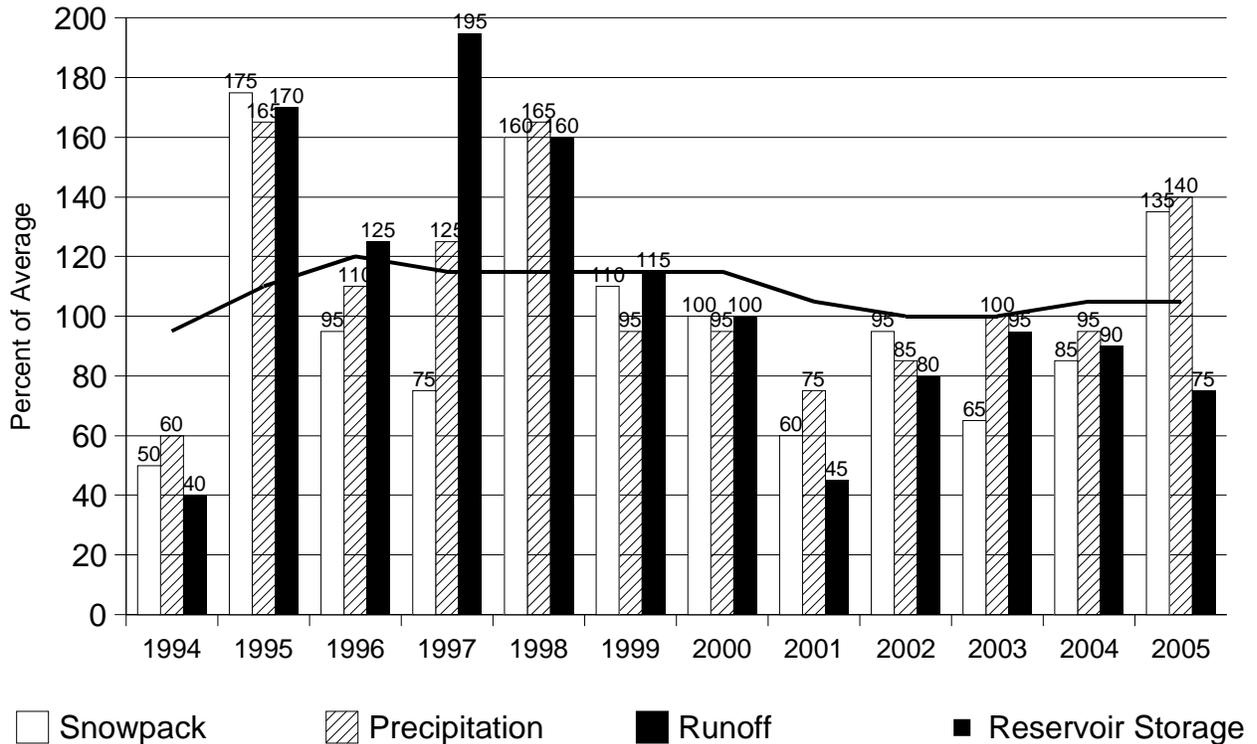
BASIN NAME	STATION NAME	ELEV	INCHES OF WATER EQUIVALENT				
			APRIL 1 AVERAGE	PERCENT Apr 1 OF AVERAGE	24 HRS PREVIOUS	1 WEEK PREVIOUS	
TRINITY RIVER							
	Peterson Flat	7150'	29.2	27.0	92.4	27.0	24.6
	Red Rock Mountain	6700'	39.6	—	—	—	—
	Bonanza King	6450'	40.5	37.2	91.9	37.2	34.7
	Shimmy Lake	6400'	40.3	62.5	155.1	62.5	59.4
	Middle Boulder 3	6200'	28.3	—	—	—	—
	Highland Lakes	6030'	29.9	—	—	—	—
	Scott Mountain	5900'	16.0	27.7	173.2	27.7	25.4
	Mumbo Basin	5650'	22.4	30.5	136.0	30.5	27.6
	Big Flat	5100'	15.8	24.1	152.5	24.1	21.9
	Crowder Flat	5100'	—	0.0	—	0.0	0.0
SACRAMENTO RIVER							
	Cedar Pass	7100'	18.1	18.2	100.6	18.2	16.3
	Blacks Mountain	7050'	12.7	10.2	80.3	10.2	9.1
	Sand Flat	6750'	42.4	43.1	101.6	42.9	39.5
	Medicine Lake	6700'	32.6	34.9	107.1	34.6	31.6
	Adin Mountain	6200'	13.6	10.9	80.1	10.9	9.3
	Snow Mountain	5950'	27.0	25.9	96.0	25.7	21.5
	Slate Creek	5700'	29.0	38.5	132.8	38.5	35.9
	Stouts Meadow	5400'	36.0	51.4	142.8	51.3	48.7
FEATHER RIVER							
	Kettle Rock	7300'	25.5	31.0	121.6	31.2	29.9
	Grizzly Ridge	6900'	29.7	31.1	104.6	31.1	29.4
	Pilot Peak	6800'	52.6	—	—	—	—
	Gold Lake	6750'	36.5	55.3	151.6	55.1	51.7
	Humbug	6500'	28.0	50.0	178.4	49.7	47.0
	Rattlesnake	6100'	14.0	28.4	203.1	28.4	26.8
	Bucks Lake	5750'	44.7	48.0	107.4	48.0	46.2
	Four Trees	5150'	20.0	18.8	94.2	19.2	18.1
EEL RIVER							
	Noel Spring	5100'	—	19.4	—	19.4	19.4
YUBA & AMERICAN RIVERS							
	Lake Lois	8600'	39.5	68.1	172.4	68.2	62.4
	Schneiders	8750'	34.5	55.5	161.0	55.5	51.1
	Carson Pass	8353'	—	48.1	—	48.1	46.0
	Caples Lake	8000'	30.9	39.0	126.1	38.6	35.4
	Alpha	7600'	35.9	—	—	—	—
	Meadow Lake	7200'	55.5	58.4	105.1	58.5	54.8
	Silver Lake	7100'	22.7	35.7	157.4	35.7	33.8
	Central Sierra Snow Lab	6900'	33.6	42.8	127.4	42.9	39.6
	Huysink	6600'	42.6	43.7	102.5	43.7	40.8
	Van Vleck	6700'	35.9	57.3	159.7	57.3	53.5
	Robbs Saddle	5900'	21.4	34.1	159.4	34.3	31.0
	Greek Store	5600'	21.0	40.1	190.9	40.1	37.4
	Blue Canyon	5280'	9.0	4.8	52.9	5.3	5.3
	Robbs Powerhouse	5150'	5.2	21.7	417.3	22.1	20.6
MOKELUMNE & STANISLAUS RIVERS							
	Deadman Creek	9250'	37.2	27.9	74.9	27.9	27.9
	Highland Meadow	8700'	47.9	52.2	109.0	52.2	49.1
	Gianelli Meadow	8400'	55.5	62.9	113.3	62.7	59.9
	Lower Relief Valley	8100'	41.2	59.0	143.3	59.1	56.8
	Blue Lakes	8000'	33.1	46.1	139.3	46.1	44.0
	Mud Lake	7900'	44.9	63.9	142.2	63.9	62.0
	Stanislaus Meadow	7750'	47.5	60.9	128.3	61.0	57.6
	Bloods Creek	7200'	35.5	45.2	127.4	45.4	43.1
	Black Springs	6500'	32.0	48.5	151.4	48.3	45.5
TUOLUMNE & MERCED RIVERS							
	Tioga Pass Entrance	9945'	—	—	—	—	—
	Dana Meadows	9800'	27.7	29.3	105.8	29.3	28.6
	Slide Canyon	9200'	41.1	53.0	129.0	53.0	51.1
	Lake Tenaya	8150'	33.1	44.7	135.1	45.1	39.9
	Tuolumne Meadows	8600'	22.6	26.6	117.8	27.1	25.9
	Horse Meadow	8400'	48.6	—	—	—	—
	Ostrander Lake	8200'	34.8	50.0	143.8	50.2	49.3
	Paradise Meadow	7650'	41.3	56.7	137.2	56.7	54.0
	Gin Flat	7050'	34.2	42.0	122.7	42.0	41.0
	Lower Kibbie Ridge	6700'	27.4	37.1	135.4	37.7	36.0

SAN JOAQUIN RIVER							
Volcanic Knob	10050'	30.1	33.4	110.8	33.4	32.7	
Agnew Pass	9450'	32.3	46.5	144.0	46.5	44.0	
Kaiser Point	9200'	37.8	46.7	123.5	46.7	44.6	
Green Mountain	7900'	30.8	50.8	164.8	50.9	49.6	
Tamarack Summit	7550'	30.5	52.6	172.3	52.3	50.9	
Chilkoot Meadow	7150'	38.0	67.7	178.1	67.5	64.9	
Huntington Lake	7000'	20.1	39.7	197.6	39.7	38.0	
Graveyard Meadow	6900'	18.8	41.8	222.1	41.9	41.2	
Poison Ridge	6900'	28.9	51.6	178.6	51.5	48.9	
KINGS RIVER							
Bishop Pass	11200'	34.0	39.0	114.6	39.0	38.3	
Charlotte Lake	10400'	27.5	36.5	132.7	36.5	36.0	
State Lakes	10300'	29.0	49.9	172.1	50.0	48.5	
Mitchell Meadow	9900'	32.9	50.5	153.5	50.3	48.4	
Blackcap Basin	10300'	34.3	46.2	134.8	46.3	45.1	
Upper Burnt Corral	9700'	34.6	50.2	145.1	50.2	48.9	
West Woodchuck Meadow	9100'	32.8	50.0	152.4	50.0	48.9	
Big Meadows	7600'	25.9	40.7	157.1	40.7	39.7	
KAWEAH & TULE RIVERS							
Farewell Gap	9500'	34.5	66.1	191.6	66.0	63.9	
Quaking Aspen	7200'	21.0	28.2	134.3	28.7	27.8	
Giant Forest	6650'	10.0	16.0	160.0	16.2	15.1	
KERN RIVER							
Upper Tyndall Creek	11400'	27.7	38.5	139.0	38.1	37.4	
Crabtree Meadow	10700'	19.8	29.9	150.9	29.6	29.0	
Chagoopa Plateau	10300'	21.8	25.5	116.9	25.5	22.2	
Pascoes	9150'	24.9	54.0	216.9	54.0	53.4	
Tunnel Guard Station	8900'	15.6	24.9	159.4	25.1	25.2	
Wet Meadows	8950'	30.3	49.7	164.0	49.7	48.2	
Casa Vieja Meadows	8300'	20.9	26.2	125.5	26.8	26.9	
Beach Meadows	7650'	11.0	14.4	130.9	14.4	14.8	
SURPRISE VALLEY AREA							
Dismal Swamp	7050'	29.2	27.1	92.8	27.1	24.5	
TRUCKEE RIVER							
Mount Rose Ski Area	8900'	38.5	48.1	124.9	48.0	46.0	
Independence Lake	8450'	41.4	49.1	118.6	49.0	46.8	
Big Meadows	8700'	25.7	27.4	106.6	27.4	26.4	
Squaw Valley	8200'	46.5	71.0	152.7	69.9	67.0	
Independence Camp	7000'	21.8	23.2	106.4	23.3	22.4	
Independence Creek	6500'	12.7	20.4	160.6	20.6	20.3	
Truckee 2	6400'	14.3	25.1	175.5	25.1	24.4	
LAKE TAHOE BASIN							
Heavenly Valley	8800'	28.1	36.4	129.5	36.4	34.9	
Hagans Meadow	8000'	16.5	21.8	132.1	21.7	20.3	
Marlette Lake	8000'	21.1	35.7	169.2	35.9	34.2	
Echo Peak 5	7800'	39.5	60.7	153.7	60.7	57.6	
Rubicon Peak 2	7500'	29.1	39.4	135.4	39.4	36.9	
Tahoe City Cross	6750'	16.0	14.6	91.2	15.0	14.4	
Ward Creek 3	6750'	39.4	51.1	129.7	50.9	47.6	
Fallen Leaf Lake	6250'	7.0	5.4	77.1	5.7	6.5	
CARSON RIVER							
Ebbetts Pass	8700'	38.8	44.0	113.4	43.8	41.4	
Horse Meadow	8557'	—	27.0	—	26.9	25.2	
Burnside Lake	8129'	—	31.5	—	31.5	29.8	
Forestdale Creek	8017'	—	35.0	—	35.0	34.2	
Poison Flat	7900'	16.2	27.8	171.6	27.9	27.5	
Monitor Pass	8350'	—	22.6	—	22.6	22.0	
Spratt Creek	6150'	4.5	7.8	173.3	8.5	9.8	
WALKER RIVER							
Leavitt Lake	9600'	—	77.0	—	76.4	73.9	
Summit Meadow	9313'	—	36.6	—	36.6	35.4	
Virginia Lakes	9300'	20.3	33.7	166.0	33.5	32.4	
Lobdell Lake	9200'	17.3	30.0	173.4	30.1	29.1	
Sonora Pass Bridge	8750'	26.0	40.4	155.4	40.4	38.8	
Leavitt Meadows	7200'	8.0	25.8	322.5	—	—	
OWENS RIVER/MONO LAKE							
Gem Pass	10750'	31.7	57.1	180.2	57.1	57.0	
Sawmill	10200'	19.4	—	—	—	—	
Cottonwood Lakes	10150'	11.6	29.9	258.1	29.9	30.1	
Big Pine Creek	9800'	17.9	—	—	—	—	
South Lake	9600'	16.0	28.4	177.8	28.4	28.0	
Mammoth Pass	9300'	42.4	59.2	139.5	59.2	56.6	
Rock Creek Lakes	10000'	14.0	22.6	161.5	22.9	22.9	

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%	15 65%	85%	100%	80%
North Coast	40%	60%	85%	100%	80%

April 1 Statewide Conditions



SNOWLINES

Remember that this year's Western Snow Conference meeting is April 11-14 in Great Falls, Montana. For further information regarding the Western Snow Conference contact Frank Gehrke at 916-574-2635 or gridley@water.ca.gov. Registration and program information is available on the web at <http://www.westernsnowconference.org/>

Depicted on the cover is the removal of a "Sacramento" rain gauge. This was easily accomplished with the use of a helicopter in the summer of 2004 as part of an upgrade to the snow sensor south of Ostrander Lake in Yosemite National Park. Manual rain gauges like this one were used before improvements in telemetry made daily measurements of precipitation possible.

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 based on April 1 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 1951-2000

Reservoir storage averages are based on the period from 1951(or beginning of operation) to 2000.

For more details contact California Cooperative Snow Surveys, P.O. Box 942836, Sacramento, CA 94236-0001, (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 represents 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 Inflow to New Melones Lake, Tuolumne River Inflow to New Don Pedro Reservoir, Merced River Inflow to Lake McClure and San Joaquin River Inflow to Millerton Lake.

Runoff of the eight major river 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

