

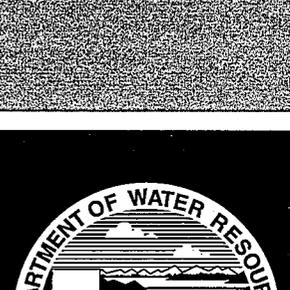
California Cooperative
Snow Surveys
Bulletin 120-3-07

State of California
The Resources Agency

Department of
Water Resources

Water Conditions in California

Report 3 April 1, 2007



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

Nancy J. Saracino
Chief Deputy Director

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Deputy Director

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Deputy 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
Omochochumne-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

April 1, 2007

March was disappointing for water suppliers with precipitation only about one quarter average and a loss in snowpack. It was also warm for the month, with enough clear warm days to cause significant early melting of the snowpack, especially at lower elevations. On average, April and May account for about 13 percent of annual precipitation; whether these months are wet or dry will make quite a difference in spring runoff this year. Most water users will be using carryover surface or ground water storage to meet water demands this year. Those that don't have such access are likely to see restrictions on supply. Tulare Lake region runoff is likely to be as poor as in the 1987-92 drought.

Forecasts of April through July runoff are 45 percent of average statewide, ranging from 50 percent in the Sacramento River region to 40 in Tulare Lake region. Water year forecasts are slightly higher at 50 percent.

Snowpack water content is only about 40 percent of average. This is a loss of 20 percentage points during March instead of the usual gain during the month. This is the lowest April 1 figure since 1988, which was 30 percent after a similar loss during March. Last year the snowpack was 125 percent of average on this date.

Precipitation from October through March was about 65 percent of average compared to 130 percent one year ago. The range is from 80 percent on the North Coast to only 10 in the desert southeast. Southern California as been especially dry. March precipitation was 25 percent of average.

Runoff has been about 60 percent of average so far this season compared to 155 percent last year. Again runoff in the north was better than in the south. March runoff was 65 percent of average. Estimated runoff of the eight major rivers of the Sacramento and San Joaquin River regions during March was 2.1 million acre feet.

Reservoir storage remains above average for April at 110 percent compared to 115 percent last year. Most larger reservoirs are near 80 percent of their capacity..

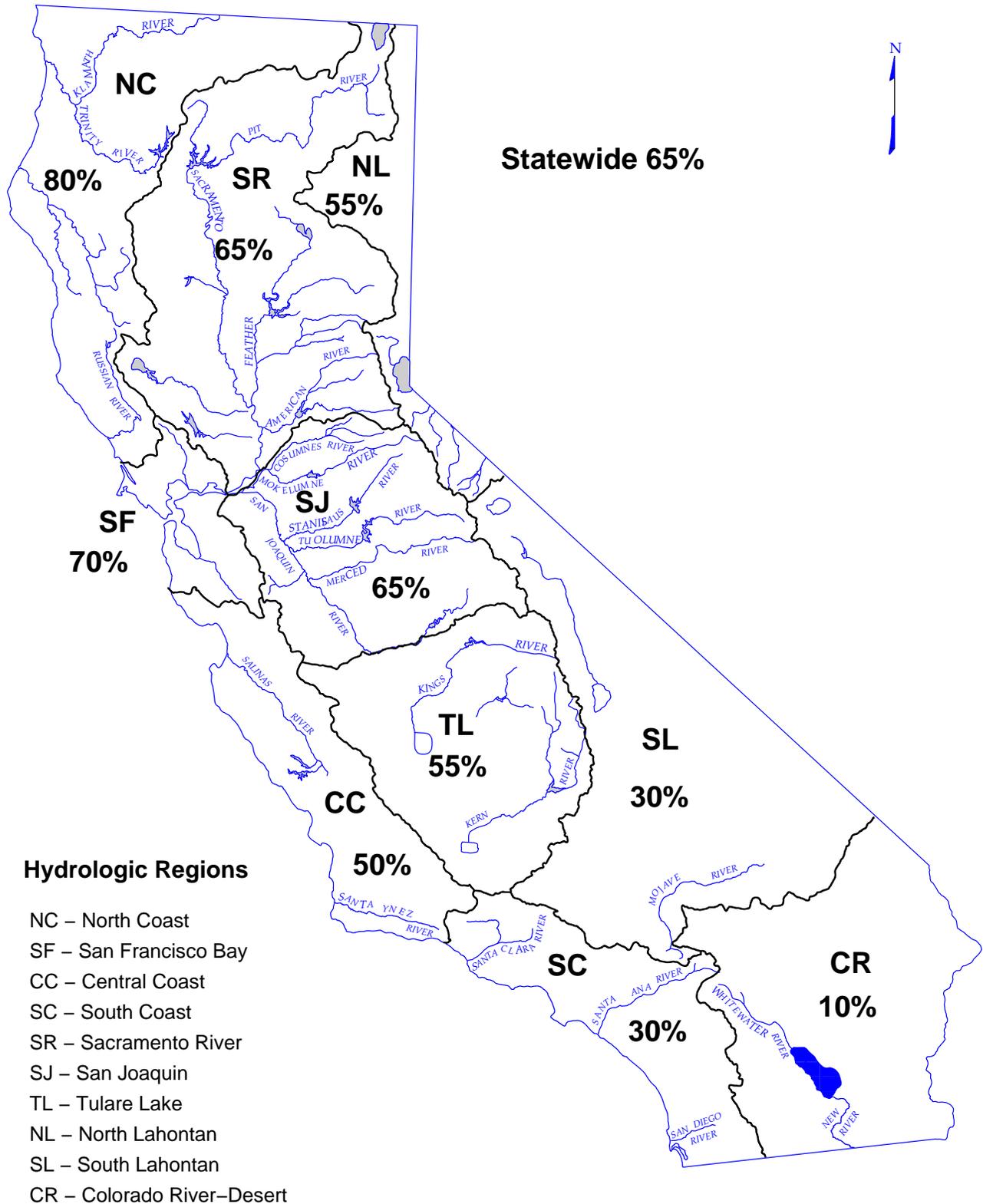
SUMMARY OF WATER CONDITIONS IN PERCENT OF AVERAGE

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	80	45	105	65	45	60
SAN FRANCISCO BAY	70	--	90	30	--	--
CENTRAL COAST	50	--	110	15	--	--
SOUTH COAST	30	--	90	25	--	--
SACRAMENTO RIVER	65	35	110	60	50	55
SAN JOAQUIN RIVER	65	45	115	50	45	45
TULARE LAKE	55	35	105	50	40	40
NORTH LAHONTAN	55	40	135	75	40	50
SOUTH LAHONTAN	30	25	110	90	50	50
COLORADO RIVER- DESERT	10	--	--	--	--	--
STATEWIDE	65	40	110	60	45	50

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

IN PERCENT OF AVERAGE TO DATE

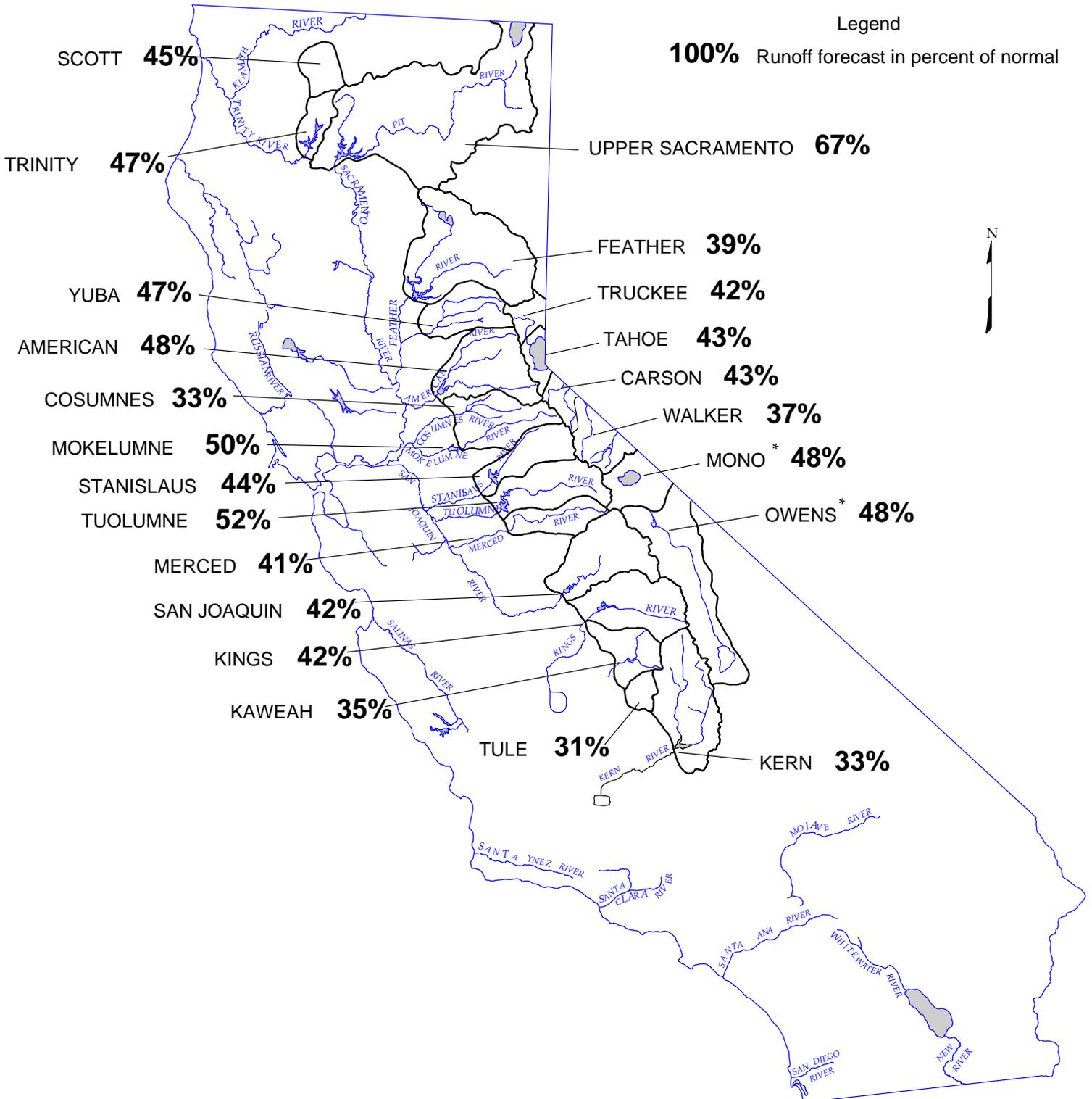
October 1, 2006 through March 31, 2007



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, 2007



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

**APRIL 1, 2007 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	170	57%	
McCloud River above Shasta Lake	392	850	185	290	74%	
Pit River near Montgomery Creek + Squaw Creek	1,066	2,098	480	720	68%	
Total Inflow to Shasta Lake	1,819	3,525	726	1,210	67%	860 - 1,850
Sacramento River above Bend Bridge, near Red Bluff	2,494	5,075	943	1,580	63%	1,160 - 2,430
Feather River						
Feather River at Lake Almanor near Prattville (3)	333	675	120	150	45%	
North Fork at Pulga (3)	1,028	2,416	243	410	40%	
Middle Fork near Clio (4)	86	518	4	35	41%	
South Fork at Ponderosa Dam (3)	110	267	13	40	36%	
Feather River at Oroville	1,782	4,676	392	700	39%	510 - 1,270
Yuba River						
North Yuba below Goodyears Bar (3)	286	647	51	130	45%	
Inflow to Jackson Mdws and Bowman Reservoirs (3)	112	236	25	55	49%	
South Yuba at Langs Crossing (3)	233	481	57	110	47%	
Yuba River near Smartville plus Deer Creek	1,006	2,424	200	470	47%	340 - 770
American River						
North Fork at North Fork Dam (3)	262	716	43	130	50%	
Middle Fork near Auburn (3)	522	1,406	100	240	46%	
Silver Creek Below Camino Diversion Dam (3)	173	386	37	80	46%	
American River below Folsom Lake	1,240	3,074	229	590	48%	430 - 940
SAN JOAQUIN RIVER						
Cosumnes River at Michigan Bar	126	363	8	42	33%	15 - 115
Mokelumne River						
North Fork near West Point (5)	437	829	104	210	48%	
Total Inflow to Pardee Reservoir	461	1,065	102	230	50%	170 - 350
Stanislaus River						
Middle Fork below Beardsley Dam (3)	334	702	64	140	42%	
North Fork Inflow to McKays Point Dam (3)	224	503	34	90	40%	
Stanislaus River below Goodwin Reservoir (7)	702	1,710	116	310	44%	220 - 500
Tuolumne River						
Cherry Creek & Eleanor Creek near Hetch Hetchy (3)	322	727	97	170	53%	
Tuolumne River near Hetch Hetchy (3)	606	1,392	153	330	54%	
Tuolumne River below La Grange Reservoir (7)	1,220	2,682	301	630	52%	450 - 910
Merced River						
Merced River at Pohono Bridge (3)	362	888	80	150	41%	
Merced River below Merced Falls (7)	632	1,587	123	260	41%	190 - 430
San Joaquin River						
San Joaquin River at Mammoth Pool (6)	1,014	2,279	235	450	44%	
Big Creek below Huntington Lake (6)	95	264	11	30	32%	
South Fork near Florence Lake (6)	202	511	58	90	45%	
San Joaquin River inflow to Millerton Lake	1,254	3,355	262	530	42%	360 - 790
TULARE LAKE						
Kings River						
North Fork Kings River near Cliff Camp (3)	239	565	50	100	42%	
Kings River below Pine Flat Reservoir	1,224	3,113	274	510	42%	350 - 750
Kaweah River below Terminus Reservoir	286	814	62	100	35%	70 - 180
Tule River below Lake Success	64	259	2	20	31%	13 - 41
Kern River						
Kern River near Kernville (3)	373	1,203	83	130	35%	
Kern River inflow to Lake Isabella	461	1,657	84	150	33%	100 - 250

(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

(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, 2007 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	1,330	610	545	450	350	220	190	340	4,035	66%	3,610 - 4,785
8,907	17,180	3,294	1,880	910	675	610	460	290	220	400	5,445	61%	4,940 - 6,430
780	1,269	366											
2,417	4,400	666											
219	637	24											
291	562	32											
4,620	9,492	994	685	460	435	270	255	100	75	125	2,405	52%	2,175 - 3,060
564	1,056	102											
181	292	30											
379	565	98											
2,373	4,926	369	265	250	240	195	195	60	20	25	1,250	53%	1,105 - 1,565
616	1,234	66											
1,070	2,575	144											
318	705	59											
2,719	6,382	349	210	260	285	250	235	90	15	5	1,350	50%	1,185 - 1,715
390	1,253	20	25	35	34	23	14	4	1	1	137	35%	100 - 200
626	1,009	197											
755	1,800	129	55	45	80	90	105	30	3	3	411	54%	350 - 540
471	929	88											
1,171	2,952	155	85	80	110	115	130	55	10	5	590	50%	500 - 800
461	1,147	123											
770	1,661	258											
1,951	4,631	383	85	95	145	180	265	155	30	15	970	50%	780 - 1,280
461	1,020	92											
1,007	2,787	150	40	40	60	85	105	55	15	6	406	40%	330 - 590
1,337	2,964	308											
112	298	14											
248	653	71											
1,836	4,642	362	85	45	100	140	220	130	40	25	785	43%	610 - 1,090
284	607	58											
1,721	4,287	386	85	35	95	120	225	125	40	25	750	44%	610 - 1,060
454	1,402	94	23	12	28	36	40	20	4	4	167	37%	130 - 250
148	615	16	11	6	9	10	7	2	1	1	47	32%	40 - 75
558	1,577	163											
730	2,318	175	75	20	35	40	60	35	15	20	300	41%	240 - 420

* 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.

**APRIL 1, 2007 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	310	47%
Scott River Scott River near Fort Jones (6)	200	400	30	90	45%
Klamath River Total inflow to Upper Klamath Lake (4)	515	939	149	360	70%

NORTH LAHONTAN

Truckee River Lake Tahoe to Farad accretions	261	713	52	110	42%
Lake Tahoe Rise (assuming gates closed, ft),(6)	1.4	5.4	0.2	0.6	43%
Carson River West Fork Carson River at Woodfords	54	135	12	23	42%
East Fork Carson River near Gardnerville	187	407	43	80	43%
Walker River West Walker River below Little Walker, near Coleville	154	330	35	62	40%
East Walker River near Bridgeport	64	209	7	18	28%

SOUTH LAHONTAN

Owens River Total tributary flow to Owens River (5)	235	579	96	114	48%
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**APRIL 1, 2007 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

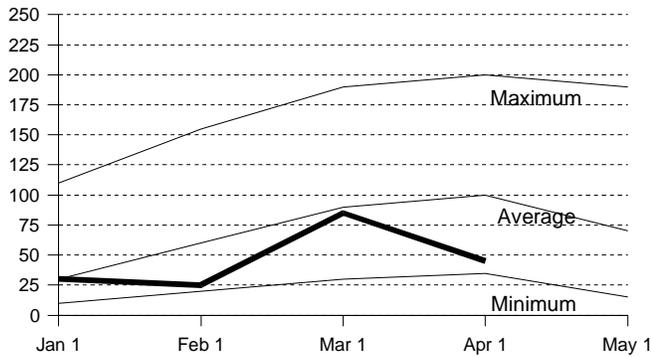
Trinity River Trinity River at Lewiston Lake (3)	1,398	2,990	200	835	60%	742 - 1035
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- (1) See inside back cover for definition
- (2) All 50 year averages are based on years 1956-2005 unless otherwise noted
- (3) Forecast by National Weather Service 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.
- (6) 50 Yr Avg is for 1951-2000

NORTH COAST REGION

Snowpack Accumulation

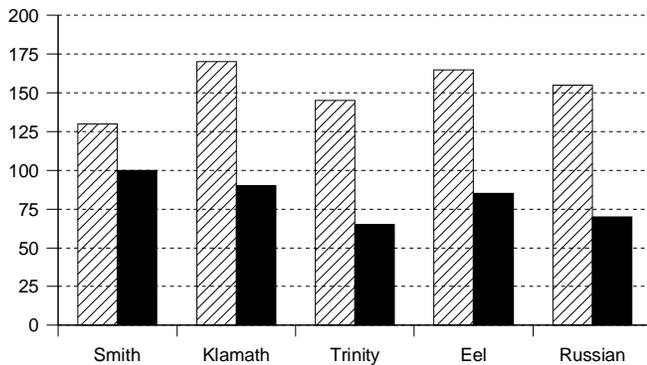
Water Content in % of April 1 Average



SNOWPACK- First of the month measurements made at 17 snow courses indicate an area wide snow water equivalent of 14.9 inches. This is 45 percent of the April 1 average. Last year at this time the pack was holding 35.5 inches of water.

Precipitation

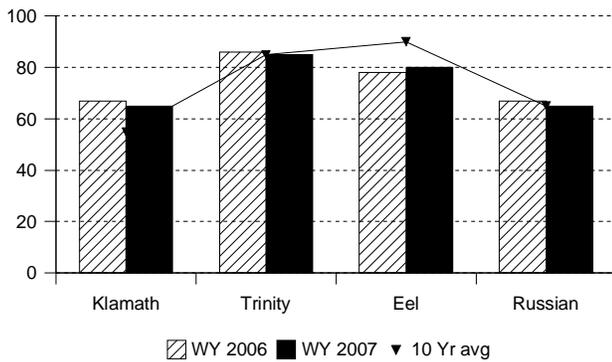
October 1 to date in % of Average



PRECIPITATION - Seasonal precipitation (October 1 through the end of last month) on this area was 80 percent of normal. Precipitation last month was about 35 percent of the monthly average. Seasonal precipitation at this time last year stood at 150 percent of normal.

Reservoir Storage

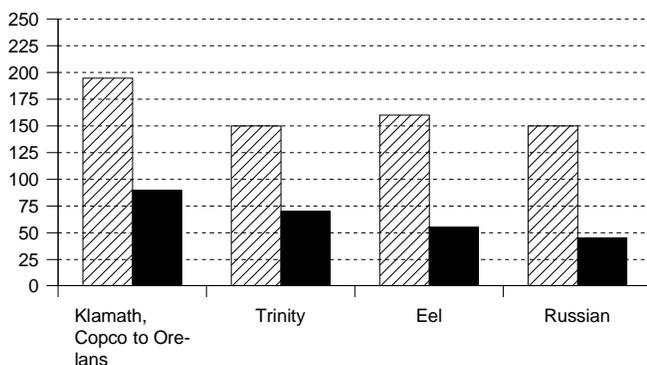
Contents of major reservoirs in % of capacity



RESERVOIR STORAGE- First of the month storage in 6 reservoirs was 2.5 million acre-feet which is 105 percent of average. About 80 percent of available capacity was being used. Storage in these reservoirs at this time last year was 105 percent of average.

Runoff

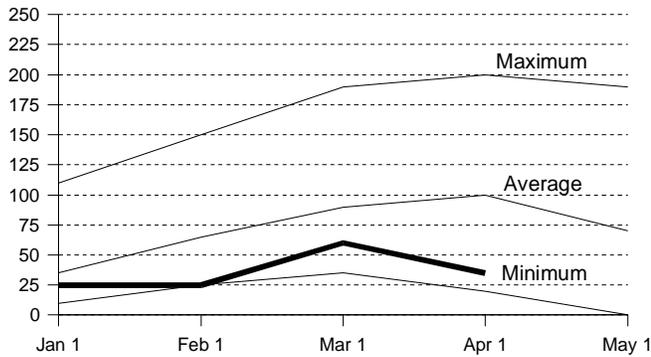
October 1 to date in % of average



RUNOFF -Seasonal runoff of streams draining the area totaled 6.4 million acre-feet which is 65 percent of the average for this period. Last year, runoff for the same period was 170 percent of average.

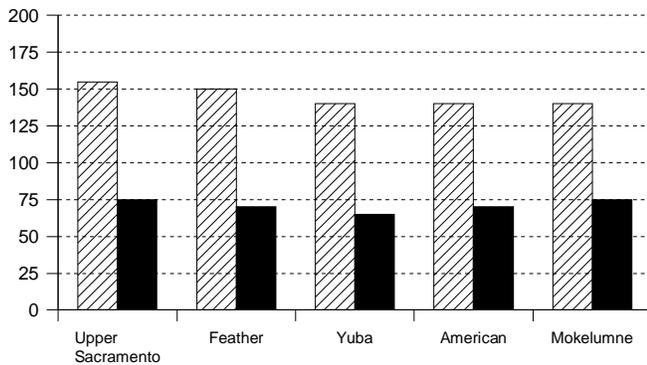
Snowpack Accumulation

Water Content in % of April 1 Average



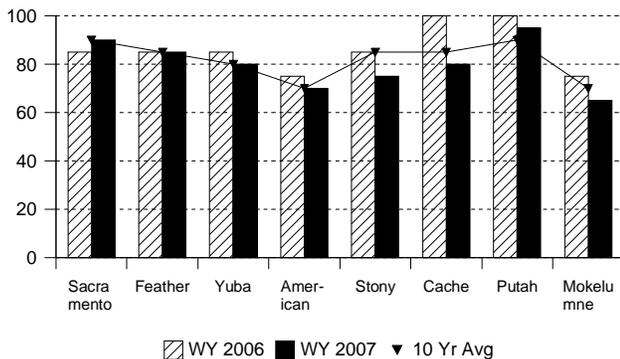
Precipitation

October 1 to date in % of Average



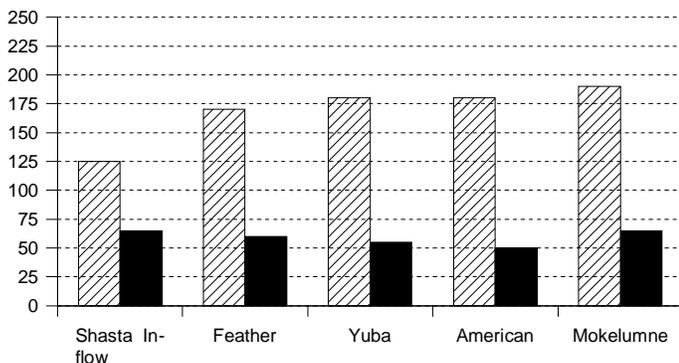
Reservoir Storage

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 80 snow courses indicate an area wide snow water equivalent of 13.0 inches. This is 35 percent of the April 1 average. Last year at this time the pack was holding 33.1 inches of water.

PRECIPITATION - Seasonal precipitation (October 1 through the end of last month) on this area was 65 percent of normal. Precipitation last month was about 20 percent of the monthly average. Seasonal precipitation at this time last year stood at 145 percent of normal.

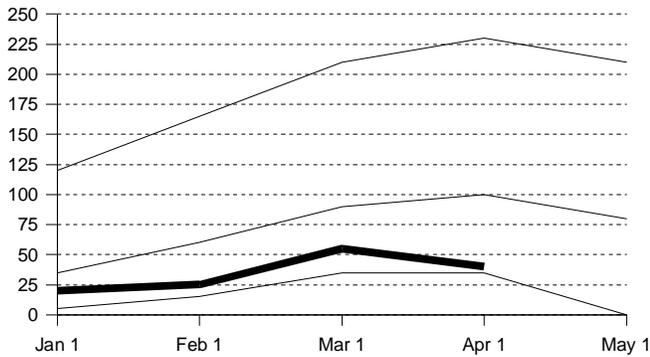
RESERVOIR STORAGE- First of the month storage in 43 reservoirs was 13.4 million acre-feet which is 110 percent of average. About 85 percent of available capacity was being used. Storage in these reservoirs at this time last year was 110 percent of average.

RUNOFF - Seasonal runoff of streams draining the area totaled 6.6 million acre-feet which is 60 percent of average for this period. Last year, runoff for the same period was 160 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.

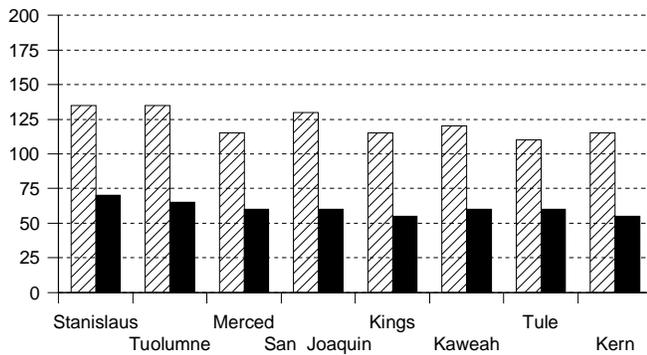
Snowpack Accumulation

Water Content in % of April 1 Average



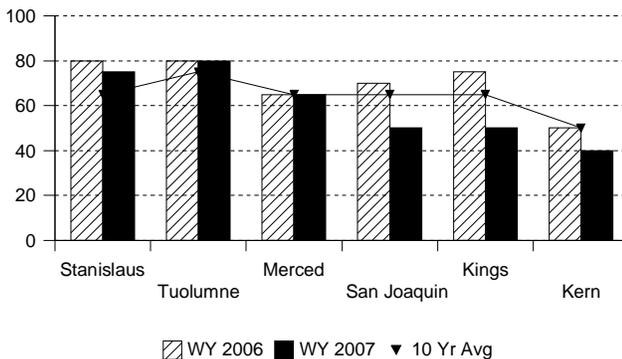
Precipitation

October 1 to date in % of Average



Reservoir Storage

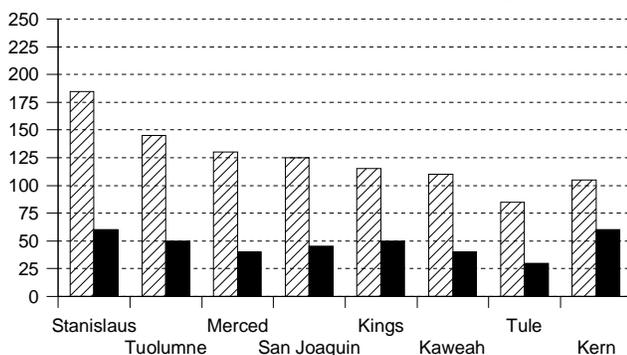
Contents of major reservoirs in % of capacity



▨ WY 2006 ■ WY 2007 ▼ 10 Yr Avg

Runoff

October 1 to date in % of average



SAN JOAQUIN RIVER AND TULARE LAKE REGIONS

SNOWPACK- First of the month measurements made at 69 **San Joaquin Region** snow courses indicate an area wide snow water equivalent of 14.9 inches. This is 45 percent of the April 1 average. Last year at this time the pack was holding 42.3 inches of water. At the same time 43 **Tulare Lake Region** snow courses indicated a basin-wide snow water equivalent of 8.9 inches which is 35 percent of the average for April 1. Last year at this time the basin was holding 32.6 inches of water.

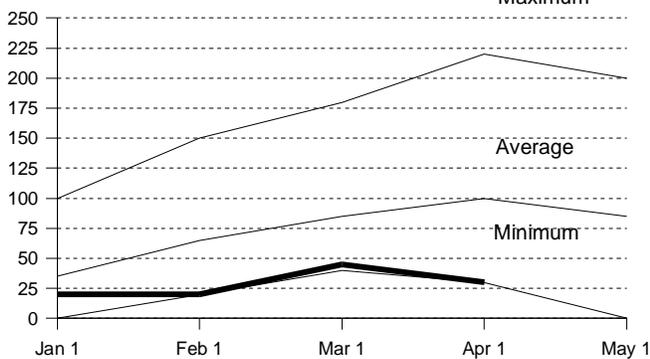
PRECIPITATION - Seasonal precipitation (October 1 through the end of last month) on the **San Joaquin Region** was 65 percent of normal. Precipitation last month was about 25 percent of the monthly average. Seasonal precipitation at this time last year stood at 125 percent of normal. Seasonal precipitation on the **Tulare Lake Region** was 55 percent of normal. Precipitation last month was about 45 percent of the monthly average. Seasonal precipitation at this time last year stood at 110 percent of normal.

RESERVOIR STORAGE- First of the month storage in 34 **San Joaquin Region** reservoirs was 8.5 million acre-feet which is 115 percent of average. About 75 percent of available capacity was being used. Storage in these reservoirs at this time last year was 125 percent of average. First of the month storage in 6 **Tulare Lake Region** reservoirs was 960 thousand acre-feet which is 105 percent of average and about 45 percent of available capacity. Storage in these reservoirs at this time last year was 145 percent of average.

RUNOFF- Seasonal runoff of streams draining the **San Joaquin Region** totaled 1.2 million acre-feet which is 50 percent of average for this period. Last year, runoff for the same period was 155 percent of average. Seasonal runoff of streams draining the **Tulare Lake Basin** totaled 441 thousand acre-feet which is 50 percent of average for this period. Last year runoff for this same period was 110 percent of average. The **San Joaquin River Region 60-20-20 Water Supply Index** is forecast to be 2.0 assuming 75 percent exceedance meteorological conditions. This classifies the year as "critical" in the San Joaquin Region according to the State Water Resources Control Board.

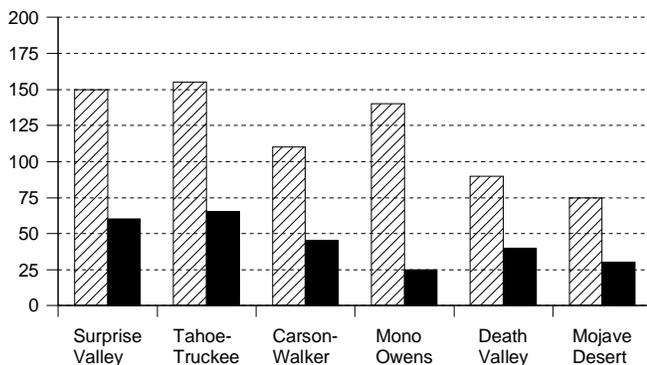
Snowpack Accumulation

Water Content in % of April 1 Average



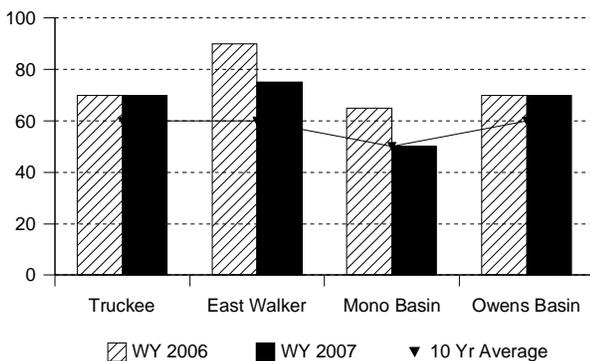
Precipitation

October 1 to date in % of Average



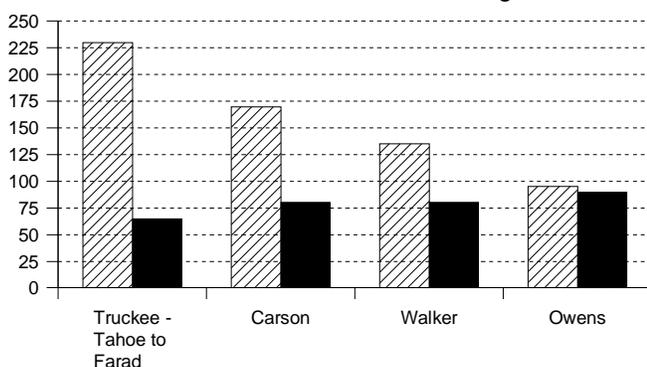
Reservoir Storage

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 13.1 inches. This is 40 percent of the April 1 average. Last year at this time the pack was holding 40.3 inches of water. At the same time 20 **South Lahontan Region** snow courses indicated a basin-wide snow water equivalent of 6.6 inches which is 25 percent of the average for April 1. Last year at this time the basin was holding 29.4 inches of water.

PRECIPITATION - Seasonal precipitation (October 1 through the end of last month) on the **North Lahontan** was 55 percent of normal. Precipitation last month was about 25 percent of the monthly average. Seasonal precipitation at this time last year stood at 140 percent of normal.

Seasonal precipitation on the **South Lahontan** was 30 percent of normal. Precipitation last month was about 15 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 5 **North Lahontan** reservoirs was 764 thousand acre-feet which is 135 percent of average. About 70 percent of available capacity was being used. Storage in these reservoirs at this time last year was 130 percent of average. Lake Tahoe was 4.2 feet above its natural rim on April 1.

First of the month storage in 8 **South Lahontan** reservoirs was 290 thousand acre-feet which is 110 percent of average and about 70 percent of available capacity. Storage in these reservoirs at this time last year was 115 percent of average.

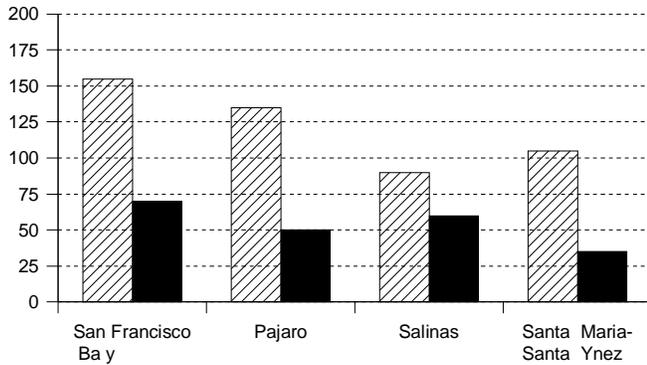
RUNOFF - Seasonal runoff of streams draining the **North Lahontan Region** totaled 212 thousand acre-feet which is 75 percent of average for this period. Last year, runoff for the same period was 190 percent of average.

Seasonal runoff of the Owens River in the **South Lahontan** totaled 61 thousand acre-feet which is 90 percent of average for this period. Last year runoff for this same period was 95 percent of average.

SAN FRANCISCO BAY AND CENTRAL COAST REGIONS

Precipitation

October 1 to date in % of Average

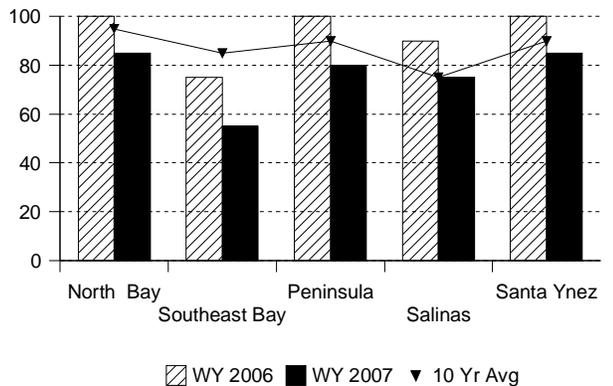


PRECIPITATION - Seasonal precipitation (October 1 through the end of last month) on the **San Francisco Bay Region** was 70 percent of normal. Precipitation last month was about 15 percent of the monthly average. Seasonal precipitation at this time last year stood at 155 percent of normal.

Seasonal precipitation on the **Central Coast Region** was 50 percent of normal. Precipitation last month was about 10 percent of the monthly average. Seasonal precipitation at this time last year stood at 110 percent of normal.

Reservoir Storage

Contents of major reservoirs in % of capacity

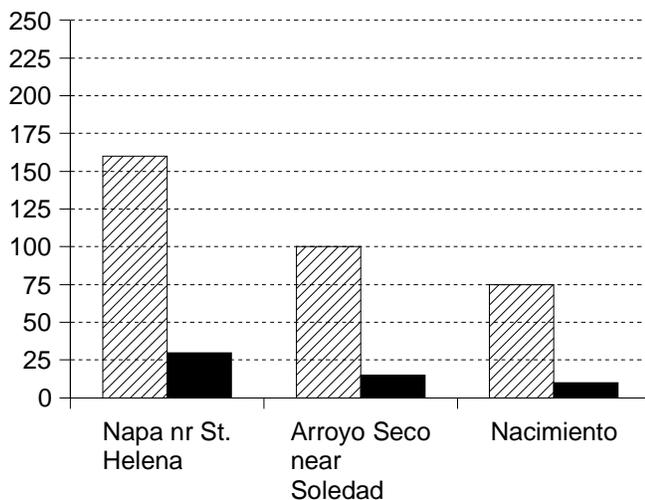


RESERVOIR STORAGE- First of the month storage in 14 **San Francisco Bay Region** reservoirs was 362 thousand acre-feet which is 90 percent of average. About 65 percent of available capacity was being used. Storage in these reservoirs at this time last year was 115 percent of average.

First of the month storage in 6 **Central Coast Region** reservoirs was 766 thousand acre-feet which is 110 percent of average and about 80 percent of available capacity. Storage in these reservoirs at this time last year was 130 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 20 thousand acre-feet which is 30 percent of average for this period. Last year, runoff for the same period was 160 percent of average.

Seasonal runoff of streams draining the **Central Coast Region** totaled 36 thousand acre-feet which is 15 percent of average for this period. Last year runoff for this same period was 85 percent of average.

SOUTH COAST AND COLORADO RIVER REGIONS

PRECIPITATION - October through March (seasonal) precipitation on the **South Coast Region** is 30 percent of normal. March precipitation was 10 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 10 percent of normal. March precipitation was 40 percent of the monthly average. Seasonal precipitation at this time last year stood at 55 percent of average.

RESERVOIR STORAGE – March 31 storage in 29 major **South Coast Region** reservoirs is 1.3 million acre-feet or 90 percent of average. About 70 percent of available capacity is being used. Storage in these reservoirs at this time last year was 100 percent of average. On March 31 combined storage in Lakes Powell, Mead, Mohave and Havasu was about 27.8 million acre-feet or about 70 percent of average. About 55 percent of available capacity was in use. Last year at this time, these reservoirs were storing 70 percent of average.

RUNOFF - Seasonal runoff from selected **South Coast Region** streams totaled 10 thousand acre-feet which is 25 percent of average. Seasonal runoff from these streams last year was 80 percent of average.

COLORADO RIVER - The April -July inflow to Lake Powell is forecast to be 4.0 million acre-feet, which is 50 percent of average. The April 1 snowpack in the Colorado River basin above Lake Powell is 65 percent, highest in the Upper Colorado at 85 percent and lowest in the Little Colorado at 5 percent.

CENTRAL VALLEY PROJECT

As of April 1, 2007, CVP storage was 9.5 million acre-feet, which is an decrease of 0.2 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 2007 supply allocations for the CVP contractors on March 16, 2007. Based on a conservative water supply forecast prepared from information available March 1, 2007, and a water year inflow into Shasta Reservoir of 3.8 million acre-feet, CVP water supplies were: Agricultural contractors North of Delta 100% and South of Delta 50%; Urban contractors North of Delta 100% 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 45,000 acre-feet; Friant Division contractors 50% of Class 1 and 0% 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>.

STATE WATER PROJECT

On March 31, total storage in major SWP reservoirs was about 4.73MAF, compared with about 4.69 MAF at this time in 2006. End of month storage at Lake Oroville was about 3.12 MAF as compared to 2.90 MAF last year. The State's share of San Luis Reservoir storage was about 1.03 MAF, as compared with 1.06 MAF at this time last year. The combined storage in the southern reservoirs was about 575 TAF, compared with about 624 TAF at this time last year.

Due to significantly drier than average conditions in the Sacramento Valley in March, the Department's SWP allocation remained unchanged at 60% (2.47 MAF).

**MAJOR WATER DISTRIBUTION PROJECTS
RESERVOIR STORAGE**

(AVERAGES BASED ON 1956-2005 OR PERIOD RECORD)

RESERVOIR	CAPACITY 1,000 AF	AVERAGE STORAGE 1,000 AF	2006 1,000 AF	STORAGE AT END OF March		
				2007 1,000 AF	PERCENT AVERAGE	PERCENT CAPACITY
<i>STATE WATER PROJECT</i>						
Lake Oroville	3,538	2,754	2,899	3,123	113%	88%
San Luis Reservoir (SWP)	1,062	991	1,063	1,028	104%	97%
Lake Del Valle	77	37	41	32	86%	41%
Lake Silverwood	73	67	70	69	103%	95%
Pyramid Lake	171	164	166	168	102%	98%
Castaic Lake	325	286	318	267	94%	82%
Perris Lake	132	118	71	71	60%	54%
<i>CENTRAL VALLEY PROJECT</i>						
Trinity Lake	2,448	1,960	2,102	2,029	103%	83%
Lake Shasta	4,552	3,736	3,854	4,011	107%	88%
Whiskeytown Lake	241	212	215	207	97%	86%
Folsom Lake	977	626	710	693	111%	71%
New Melones Reservoir	2,420	1,486	2,075	1,979	133%	82%
Millerton Lake	520	360	496	246	68%	47%
San Luis Reservoir (CVP)	971	883	969	765	87%	79%
<i>COLORADO RIVER PROJECT</i>						
Lake Mead	26,159	20,218	15,337	13,930	69%	53%
Lake Powell	24,322	18,197	10,704	11,637	64%	48%
Lake Mohave	1,810	1,679	1,665	1,685	100%	93%
Lake Havasu	619	557	564	562	101%	91%
<i>EAST BAY MUNICIPAL UTILITY DISTRICT</i>						
Pardee Res	198	182	194	182	100%	92%
Camanche Reservoir	417	260	340	305	118%	73%
East Bay (4 res.)	147	135	136	118	87%	80%
<i>CITY AND COUNTY OF SAN FRANCISCO</i>						
Hetch-Hetchy Reservoir	360	140	214	253	181%	70%
Cherry Lake	268	130	219	242	187%	90%
Lake Eleanor	26	12	17	19	160%	73%
South Bay/Peninsula (4 res.)	225	178	187	150	84%	67%
<i>CITY OF LOS ANGELES (D.W.P.)</i>						
Lake Crowley	183	129	150	146	113%	79%
Grant Lake	48	27	43	35	126%	73%
Other Aqueduct Storage (6 res.)	83	77	49	55	71%	66%

TELEMETERED SNOW WATER EQUIVALENTS

April 1, 2007

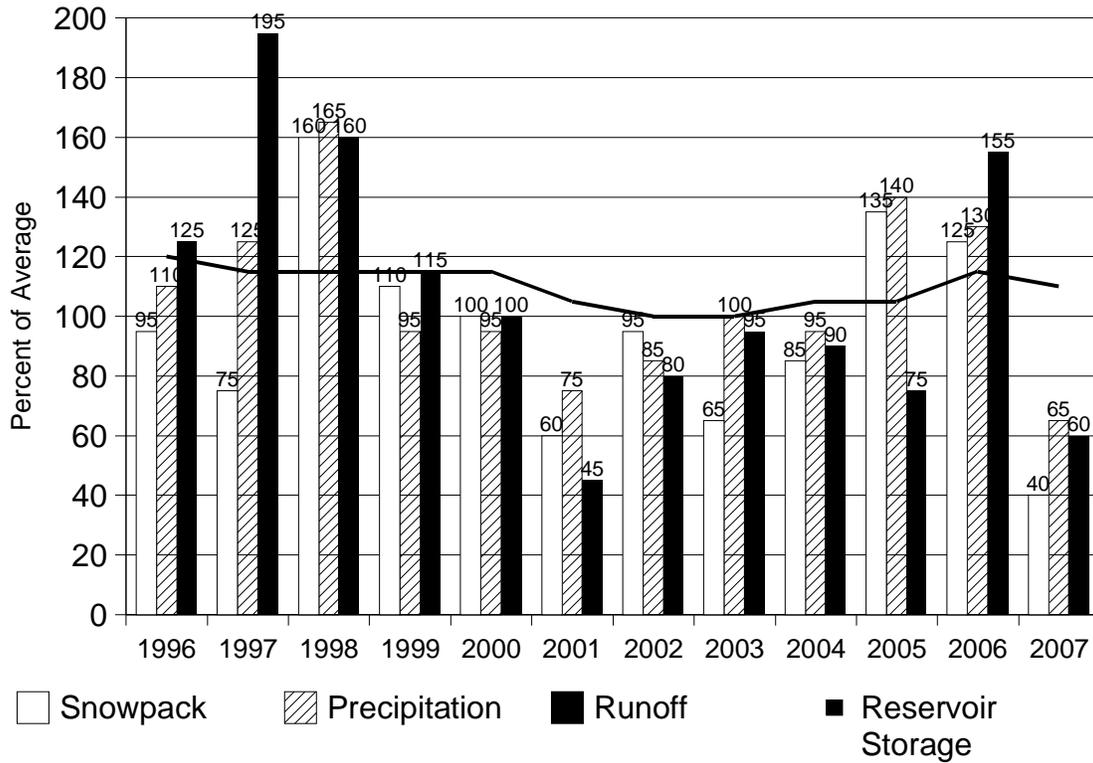
(AVERAGES BASED ON PERIOD RECORD)

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	12.3	42.1	12.5	12.7
	Red Rock Mountain	6700'	39.6	19.9	50.3	20.2	20.5
	Bonanza King	6450'	40.5	22.0	54.2	23.0	26.8
	Shimmy Lake	6400'	40.3	23.0	57.1	23.4	24.5
	Middle Boulder 3	6200'	28.3	13.7	48.2	14.1	14.5
	Highland Lakes	6030'	29.9	10.4	34.9	11.5	12.8
	Scott Mountain	5900'	16.0	8.3	51.7	8.8	9.6
	Mumbo Basin	5650'	22.4	7.0	31.1	7.8	9.2
	Big Flat	5100'	15.8	13.4	85.1	13.9	14.0
	Crowder Flat	5100'	—	0.0	—	0.0	0.0
SACRAMENTO RIVER							
	Cedar Pass	7100'	18.1	9.7	53.6	9.8	9.6
	Blacks Mountain	7050'	12.7	4.8	37.8	5.0	4.9
	Sand Flat	6750'	42.4	23.7	56.0	24.2	24.7
	Medicine Lake	6700'	32.6	21.7	66.6	22.0	21.4
	Adin Mountain	6200'	13.6	4.6	33.8	4.9	5.1
	Snow Mountain	5950'	27.0	10.2	37.9	10.8	12.2
	Slate Creek	5700'	29.0	6.4	21.9	6.8	10.0
	Stouts Meadow	5400'	36.0	13.5	37.5	14.1	15.7
FEATHER RIVER							
	Kettle Rock	7300'	25.5	12.8	50.4	13.6	12.7
	Grizzly Ridge	6900'	29.7	15.1	50.9	15.5	15.1
	Pilot Peak	6800'	52.6	8.6	16.3	9.2	9.0
	Gold Lake	6750'	36.5	26.8	73.4	26.9	25.0
	Humbug	6500'	28.0	20.5	73.3	21.1	20.4
	Harkness Flat	6200'	28.5	9.9	34.8	10.6	11.0
	Rattlesnake	6100'	14.0	4.8	34.3	6.0	6.5
	Bucks Lake	5750'	44.7	19.4	43.5	19.8	19.1
	Four Trees	5150'	20.0	0.0	0.0	0.0	3.4
EEL RIVER							
	Noel Spring	5100'	—	0.0	—	0.0	0.0
YUBA & AMERICAN RIVERS							
	Lake Lois	8600'	39.5	—	—	—	—
	Schneiders	8750'	34.5	25.8	74.8	25.8	23.8
	Carson Pass	8353'	—	18.8	—	18.9	18.3
	Caples Lake	8000'	30.9	13.3	43.0	13.3	12.5
	Alpha	7600'	35.9	19.6	54.7	19.8	18.6
	Meadow Lake	7200'	55.5	32.6	58.8	33.0	32.0
	Silver Lake	7100'	22.7	10.1	44.3	10.2	10.3
	Central Sierra Snow Lab	6900'	33.6	19.6	58.3	20.2	19.4
	Huysink	6600'	42.6	17.5	41.1	17.9	17.2
	Van Vleck	6700'	35.9	19.8	55.3	20.4	18.9
	Robbs Saddle	5900'	21.4	8.9	41.5	9.1	8.2
	Greek Store	5600'	21.0	8.2	38.9	8.4	8.4
	Blue Canyon	5280'	9.0	—	—	—	—
	Robbs Powerhouse	5150'	5.2	4.0	76.9	4.5	4.4
MOKELUMNE & STANISLAUS RIVERS							
	Deadman Creek	9250'	37.2	—	—	—	—
	Highland Meadow	8700'	47.9	25.6	53.4	25.7	24.5
	Gianelli Meadow	8400'	55.5	21.6	38.9	21.9	20.9
	Lower Relief Valley	8100'	41.2	19.2	46.6	19.8	20.0
	Blue Lakes	8000'	33.1	13.8	41.7	14.0	13.7
	Mud Lake	7900'	44.9	33.2	73.9	33.5	32.4
	Stanislaus Meadow	7750'	47.5	—	—	—	—
	Bloods Creek	7200'	35.5	18.0	50.7	18.4	18.1
	Black Springs	6500'	32.0	15.3	47.7	15.5	15.7
TUOLUMNE & MERCED RIVERS							
	Tioga Pass Entrance	9945'	—	—	—	—	—
	Dana Meadows	9800'	27.7	26.3	94.9	26.9	26.9
	Slide Canyon	9200'	41.1	21.6	52.5	21.8	21.1
	Lake Tenaya	8150'	33.1	18.3	55.2	18.5	17.9
	Tuolumne Meadows	8600'	22.6	7.3	32.3	7.8	8.1
	Horse Meadow	8400'	48.6	31.8	65.4	31.8	31.0
	Ostrander Lake	8200'	34.8	14.6	42.1	14.8	14.8
	Paradise Meadow	7650'	41.3	19.7	47.7	20.3	19.5
	Gin Flat	7050'	34.2	14.5	42.5	14.9	15.1
	Lower Kibbie Ridge	6700'	27.4	1.1	3.9	1.5	2.6

SAN JOAQUIN RIVER						
Volcanic Knob	10050'	30.1	—	—	—	—
Agnew Pass	9450'	32.3	15.1	46.7	15.5	15.5
Kaiser Point	9200'	37.8	13.1	34.7	13.4	14.3
Green Mountain	7900'	30.8	10.6	34.3	11.2	11.9
Tamarack Summit	7550'	30.5	10.1	33.0	10.6	11.0
Chilkoot Meadow	7150'	38.0	19.2	50.4	19.2	20.1
Huntington Lake	7000'	20.1	12.4	61.5	12.8	12.4
Graveyard Meadow	6900'	18.8	2.3	12.2	3.2	4.2
Poison Ridge	6900'	28.9	2.3	8.0	3.4	5.3
KINGS RIVER						
Bishop Pass	11200'	34.0	16.0	47.1	16.0	14.5
Charlotte Lake	10400'	27.5	15.0	54.6	15.1	13.9
State Lakes	10300'	29.0	—	—	—	—
Mitchell Meadow	9900'	32.9	18.5	56.2	18.5	17.2
Blackcap Basin	10300'	34.3	19.7	57.4	19.8	18.6
Upper Burnt Corral	9700'	34.6	17.2	49.7	17.4	17.1
West Woodchuck Meadow	9100'	32.8	10.7	32.6	10.8	11.3
Big Meadows	7600'	25.9	9.8	38.0	10.4	11.4
KAWEAH & TULE RIVERS						
Farewell Gap	9500'	34.5	15.9	46.0	16.4	15.3
Quaking Aspen	7200'	21.0	7.0	33.1	7.6	8.4
Giant Forest	6650'	10.0	0.0	0.0	0.5	0.0
KERN RIVER						
Upper Tyndall Creek	11400'	27.7	9.4	33.9	9.4	8.7
Crabtree Meadow	10700'	19.8	—	—	—	4.6
Chagoopa Plateau	10300'	21.8	9.7	44.3	10.0	9.7
Pascoes	9150'	24.9	11.9	47.8	12.1	11.6
Tunnel Guard Station	8900'	15.6	0.0	0.0	0.0	0.0
Wet Meadows	8950'	30.3	3.2	10.6	3.9	4.6
Casa Vieja Meadows	8300'	20.9	5.2	24.7	6.0	6.1
Beach Meadows	7650'	11.0	0.0	0.0	0.0	0.0
SURPRISE VALLEY AREA						
Dismal Swamp	7050'	29.2	19.5	66.8	19.6	19.1
TRUCKEE RIVER						
Mount Rose Ski Area	8900'	38.5	18.9	49.1	18.9	18.2
Independence Lake	8450'	41.4	29.2	70.5	29.2	28.1
Big Meadows	8700'	25.7	9.2	35.8	9.3	8.8
Squaw Valley	8200'	46.5	30.7	66.0	31.7	30.6
Independence Camp	7000'	21.8	6.8	31.2	7.4	7.3
Independence Creek	6500'	12.7	4.1	32.3	4.4	5.9
Truckee 2	6400'	14.3	7.5	52.4	7.7	7.6
LAKE TAHOE BASIN						
Heavenly Valley	8800'	28.1	12.5	44.5	12.6	11.9
Hagans Meadow	8000'	16.5	2.7	16.4	2.9	3.4
Marlette Lake	8000'	21.1	9.8	46.4	10.1	9.4
Echo Peak 5	7800'	39.5	18.1	45.8	18.7	17.6
Rubicon Peak 2	7500'	29.1	12.0	41.2	12.3	11.5
Tahoe City Cross	6750'	16.0	0.0	0.0	0.0	0.6
Ward Creek 3	6750'	39.4	19.5	49.5	19.8	18.9
Fallen Leaf Lake	6250'	7.0	0.0	0.0	0.0	0.0
CARSON RIVER						
Ebbetts Pass	8700'	38.8	14.3	36.9	14.7	13.8
Horse Meadow	8557'	—	9.2	—	9.4	9.3
Burnside Lake	8129'	—	12.0	—	12.1	11.7
Forestdale Creek	8017'	—	20.5	—	20.9	20.0
Poison Flat	7900'	16.2	7.8	48.1	8.3	8.7
Monitor Pass	8350'	—	5.4	—	5.6	5.3
Spratt Creek	6150'	4.5	0.0	0.0	0.0	0.0
WALKER RIVER						
Leavitt Lake	9600'	—	34.4	—	34.4	32.8
Summit Meadow	9313'	—	—	—	—	—
Virginia Lakes	9300'	20.3	7.9	38.9	7.9	7.5
Lobdell Lake	9200'	17.3	0.0	0.0	0.0	1.6
Sonora Pass Bridge	8750'	26.0	11.5	44.2	11.5	10.8
Leavitt Meadows	7200'	8.0	0.0	0.0	0.0	0.0
OWENS RIVER/MONO LAKE						
Gem Pass	10750'	31.7	16.3	51.4	16.3	14.7
Sawmill	10200'	19.4	7.0	36.1	7.0	6.6
Cottonwood Lakes	10150'	11.6	3.1	27.2	3.1	1.5
Big Pine Creek	9800'	17.9	0.0	0.0	0.0	1.1
South Lake	9600'	16.0	6.0	37.5	6.2	6.2
Mammoth Pass	9300'	42.4	17.4	41.0	17.4	16.7
Rock Creek Lakes	10000'	14.0	2.8	19.9	3.6	4.1

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%	

April 1 Statewide Conditions



SNOWLINES

Remember that this year's Western Snow Conference meeting is April 16-19 in Kona, Hawaii hosted by the South Pacific Region. 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 this month's cover is the consequence of using guy wires to support towers in snow country. The RAWs tower at White Wolf in Yosemite National Park, shown in these pictures, was ultimately destroyed.

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 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 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 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

