

Summary of Water Conditions March 1, 2009

After a poor start to the water year, a couple of major storm events boosted precipitation and snowpack amounts to improve water conditions from last month's grim outlook. However, more precipitation is needed to restore storage levels to near normal levels. Absent a very wet remaining spring quarter, shortages in water supplies for some areas of California are certain.

Forecasts of April through July runoff are 75 percent of average statewide, with percentages fairly evenly distributed from north to south over the Sierra. Water year runoff forecasts are lower at 65 percent, reflecting the dry conditions of last year and the paucity of January precipitation.

Snowpack water content is about 80 percent of average for this time of year compared to 130 percent last year. The pack is about 70 percent of the April 1 average, the normal date of maximum accumulation. The best percentages are in the southern Sierra.

Precipitation from October through February improved to about 80 percent of average compared to 100 percent one year ago. February precipitation was well above average at 130 percent of average for the month. Seasonal percentages range from a bit over 100 percent in the southeastern desert regions to 65 percent in the North Lahontan region and 70 percent on the North Coast.

Runoff continued much below average at 45 percent compared to 60 percent last year. Runoff in February was 65 percent of average for the month. Estimated runoff of the eight major rivers of the Sacramento and San Joaquin River region in February was 2.3 million acre-feet.

Reservoir storage is about 70 percent of average statewide compared to 85 percent last year. Shasta and Oroville gained about 0.9 million acre-feet during the month, but are still only about 60 and 55 percent of average, respectively. Statewide storage at the end of February 1991 was about 50 percent of average and it was also about 50 percent of average in 1977.

SUMMARY OF WATER CONDITIONS IN PERCENT OF AVERAGE

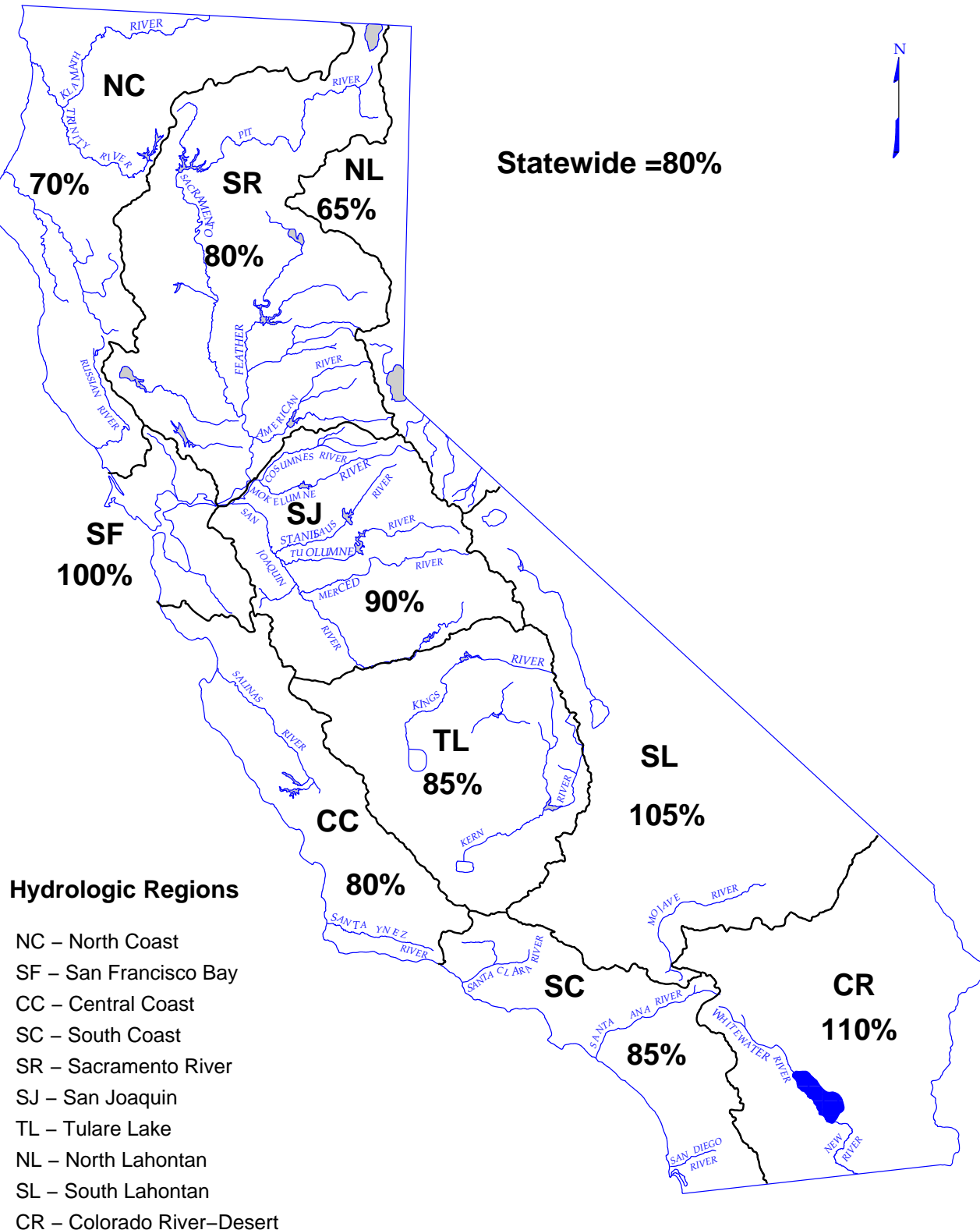
| HYDROLOGIC REGION | PRECIPITATION OCTOBER 1 TO DATE | MARCH 1 SNOW WATER CONTENT | MARCH 1 RESERVOIR STORAGE | RUNOFF OCTOBER 1 TO DATE | APR-JULY RUNOFF FORECAST | WATER YEAR RUNOFF FORECAST |
|---------------------------|---------------------------------------|-------------------------------|---------------------------------|--------------------------------|-----------------------------|----------------------------------|
| NORTH COAST | 70 | 65 | 60 | 35 | 70 | 60 |
| SAN FRANCISCO BAY | 100 | -- | 90 | 30 | -- | -- |
| CENTRAL COAST | 80 | -- | 80 | 25 | -- | -- |
| SOUTH COAST | 85 | -- | 90 | 40 | -- | -- |
| SACRAMENTO RIVER | 80 | 80 | 70 | 50 | 70 | 60 |
| SAN JOAQUIN RIVER | 90 | 90 | 75 | 60 | 80 | 70 |
| TULARE LAKE | 85 | 90 | 65 | 60 | 75 | 70 |
| NORTH LAHONTAN | 65 | 75 | 30 | 55 | 65 | 65 |
| SOUTH LAHONTAN | 105 | 75 | 95 | 80 | 75 | 75 |
| COLORADO RIVER- DESERT | 110 | -- | -- | -- | -- | -- |
| STATEWIDE | 80 | 80 | 70 | 45 | 75 | 65 |

DEPARTMENT OF WATER RESOURCES

CALIFORNIA COOPERATIVE SNOW SURVEYS

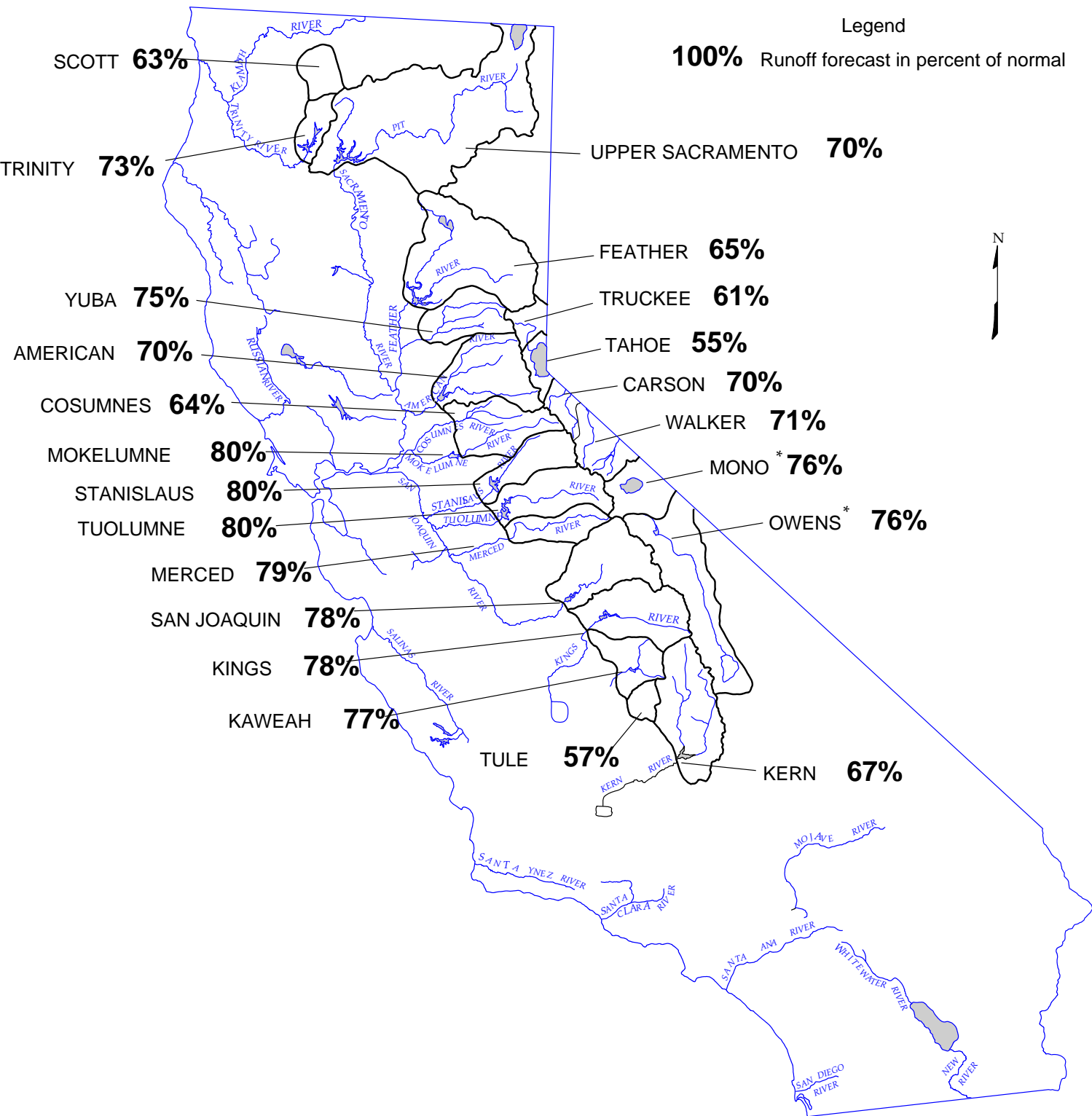
SEASONAL PRECIPITATION

IN PERCENT OF AVERAGE TO DATE
 October 1, 2008 through February 28, 2009



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, 2009**



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

**MARCH 1, 2009 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) |
| North Coast | | | | | | |
| Trinity River at Lewiston Lake (10) | 654 | 1,593 | 80 | 480 | 73% | 320 - 790 |
| SACRAMENTO RIVER | | | | | | |
| Upper Sacramento River | | | | | | |
| Sacramento River at Delta above Shasta Lake | 298 | 711 | 39 | 210 | 70% | |
| McCloud River above Shasta Lake | 392 | 850 | 185 | 300 | 76% | |
| Pit River near Montgomery Creek + Squaw Creek | 1,066 | 2,098 | 480 | 740 | 69% | |
| Total Inflow to Shasta Lake | 1,819 | 3,525 | 726 | 1,270 | 70% | 910 - 2,170 |
| Sacramento River above Bend Bridge, near Red Bluff | 2,494 | 5,075 | 943 | 1,680 | 67% | 1,160 - 2,600 |
| Feather River | | | | | | |
| Feather River at Lake Almanor near Prattville (3) | 333 | 675 | 120 | 230 | 69% | |
| North Fork at Pulga (3) | 1,028 | 2,416 | 243 | 650 | 63% | |
| Middle Fork near Clio (4) | 86 | 518 | 4 | 50 | 58% | |
| South Fork at Ponderosa Dam (3) | 110 | 267 | 13 | 60 | 55% | |
| Feather River at Oroville | 1,782 | 4,676 | 392 | 1,150 | 65% | 620 - 2,000 |
| Yuba River | | | | | | |
| North Yuba below Goodyears Bar | 279 | 647 | 51 | 210 | 75% | |
| Inflow to Jackson Mdws and Bowman Reservoirs (3) | 112 | 236 | 25 | 80 | 71% | |
| South Yuba at Langs Crossing (3) | 233 | 481 | 57 | 160 | 69% | |
| Yuba River near Smartsville plus Deer Creek | 1,006 | 2,424 | 200 | 750 | 75% | 410 - 1,300 |
| American River | | | | | | |
| North Fork at North Fork Dam (3) | 262 | 716 | 43 | 170 | 65% | |
| Middle Fork near Auburn (3) | 522 | 1,406 | 100 | 360 | 69% | |
| Silver Creek Below Camino Diversion Dam (3) | 173 | 386 | 37 | 120 | 69% | |
| American River below Folsom Lake | 1,240 | 3,074 | 229 | 870 | 70% | 480 - 1,600 |
| SAN JOAQUIN RIVER | | | | | | |
| Cosumnes River at Michigan Bar | 126 | 363 | 8 | 80 | 64% | 30 - 185 |
| Mokelumne River | | | | | | |
| North Fork near West Point (5) | 437 | 829 | 104 | 330 | 76% | |
| Total Inflow to Pardee Reservoir | 461 | 1,065 | 102 | 370 | 80% | 210 - 610 |
| Stanislaus River | | | | | | |
| Middle Fork below Beardsley Dam (3) | 334 | 702 | 64 | 260 | 78% | |
| North Fork Inflow to McKays Point Dam (3) | 224 | 503 | 34 | 170 | 76% | |
| Stanislaus River below Goodwin Reservoir (7) | 702 | 1,710 | 116 | 560 | 80% | 350 - 950 |
| Tuolumne River | | | | | | |
| Cherry Creek & Eleanor Creek near Hetch Hetchy | 315 | 727 | 97 | 250 | 79% | |
| Tuolumne River near Hetch Hetchy | 604 | 1,392 | 153 | 500 | 83% | |
| Tuolumne River below La Grange Reservoir (A) | 1,220 | 2,682 | 301 | 980 | 80% | 670 - 1,600 |
| Merced River | | | | | | |
| Merced River at Pohono Bridge | 372 | 888 | 80 | 300 | 81% | |
| Merced River below Merced Falls (9) | 632 | 1,587 | 123 | 500 | 79% | 320 - 850 |
| San Joaquin River | | | | | | |
| San Joaquin River at Mammoth Pool (7) | 1,026 | 2,279 | 235 | 830 | 81% | |
| Big Creek below Huntington Lake (8) | 91 | 264 | 11 | 70 | 77% | |
| South Fork near Florence Lake (7) | 201 | 511 | 58 | 170 | 85% | |
| San Joaquin River inflow to Millerton Lake | 1,254 | 3,355 | 262 | 980 | 78% | 620 - 1,570 |
| TULARE LAKE | | | | | | |
| Kings River | | | | | | |
| North Fork Kings River near Cliff Camp (3) | 239 | 565 | 50 | 190 | 79% | |
| Kings River below Pine Flat Reservoir | 1,224 | 3,113 | 274 | 960 | 78% | 610 - 1,550 |
| Kaweah River below Terminus Reservoir | 286 | 814 | 62 | 220 | 77% | 130 - 370 |
| Tule River below Lake Success | 64 | 259 | 2 | 36 | 57% | 17 - 85 |
| Kern River | | | | | | |
| Kern River near Kernville | 384 | 1,203 | 83 | 270 | 70% | |
| Kern River inflow to Lake Isabella | 461 | 1,657 | 84 | 310 | 67% | 190 - 590 |

(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

(7) 50 year average based on years 1953-2002

(8) 50 year average based on years 1946-1995

**MARCH 1, 2009 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) |
| 1398 | 2990 | 200 | 113 | 77 | 170 | 175 | 200 | 75 | 30 | 15 | 10 | 866 | 62% | 643 - 1301 |
| 887 | 1,965 | 165 | | | | | | | | | | | | |
| 1,217 | 2,353 | 557 | | | | | | | | | | | | |
| 3,159 | 5,150 | 1,484 | | | | | | | | | | | | |
| 6,107 | 10,796 | 2,479 | 915 | 665 | 610 | 460 | 360 | 250 | 200 | 180 | 180 | 3,820 | 63% | 3,185 - 5,410 |
| 8,907 | 17,180 | 3,294 | 1,215 | 1,035 | 960 | 630 | 470 | 330 | 250 | 215 | 220 | 5,325 | 60% | 4,335 - 6,940 |
| 780 | 1,269 | 366 | | | | | | | | | | | | |
| 2,417 | 4,400 | 666 | | | | | | | | | | | | |
| 219 | 637 | 24 | | | | | | | | | | | | |
| 291 | 562 | 32 | | | | | | | | | | | | |
| 4,620 | 9,492 | 994 | 475 | 475 | 450 | 485 | 380 | 180 | 105 | 80 | 70 | 2,700 | 58% | 1,930 - 3,995 |
| 564 | 1,056 | 102 | | | | | | | | | | | | |
| 181 | 292 | 30 | | | | | | | | | | | | |
| 379 | 565 | 98 | | | | | | | | | | | | |
| 2,373 | 4,926 | 369 | 205 | 230 | 250 | 310 | 300 | 110 | 30 | 15 | 15 | 1,465 | 62% | 1,025 - 2,255 |
| 616 | 1,234 | 66 | | | | | | | | | | | | |
| 1,070 | 2,575 | 144 | | | | | | | | | | | | |
| 318 | 705 | 59 | | | | | | | | | | | | |
| 2,719 | 6,382 | 349 | 185 | 240 | 280 | 360 | 350 | 135 | 25 | 10 | 5 | 1,590 | 58% | 1,100 - 2,620 |
| 390 | 1,253 | 20 | 18 | 34 | 45 | 40 | 29 | 9 | 2 | 1 | 0 | 178 | 46% | 95 - 345 |
| 626 | 1,009 | 197 | | | | | | | | | | | | |
| 755 | 1,800 | 129 | 45 | 40 | 60 | 120 | 165 | 75 | 10 | 2 | 1 | 518 | 69% | 330 - 810 |
| 471 | 929 | 88 | | | | | | | | | | | | |
| 1,171 | 2,952 | 155 | 95 | 75 | 100 | 180 | 230 | 125 | 25 | 5 | 5 | 840 | 72% | 590 - 1,310 |
| 461 | 1,147 | 123 | | | | | | | | | | | | |
| 770 | 1,661 | 258 | | | | | | | | | | | | |
| 1,951 | 4,631 | 383 | 200 | 115 | 150 | 260 | 400 | 270 | 50 | 15 | 5 | 1,465 | 75% | 1,100 - 2,190 |
| 461 | 1,020 | 92 | | | | | | | | | | | | |
| 1,007 | 2,787 | 150 | 85 | 60 | 80 | 135 | 215 | 125 | 25 | 10 | 0 | 735 | 73% | 520 - 1,150 |
| 1,337 | 2,964 | 308 | | | | | | | | | | | | |
| 112 | 298 | 14 | | | | | | | | | | | | |
| 248 | 653 | 71 | | | | | | | | | | | | |
| 1,836 | 4,642 | 362 | 155 | 80 | 120 | 210 | 380 | 300 | 90 | 30 | 15 | 1,380 | 75% | 950 - 2,070 |
| 284 | 607 | 58 | | | | | | | | | | | | |
| 1,721 | 4,287 | 386 | 130 | 65 | 100 | 200 | 380 | 300 | 80 | 25 | 10 | 1,290 | 75% | 890 - 1,970 |
| 454 | 1,402 | 94 | 39 | 23 | 33 | 59 | 90 | 58 | 13 | 4 | 2 | 321 | 71% | 210 - 500 |
| 148 | 615 | 16 | 10 | 9 | 22 | 17 | 13 | 5 | 1 | 0 | 0 | 77 | 52% | 45 - 160 |
| 558 | 1,577 | 163 | | | | | | | | | | | | |
| 730 | 2,318 | 175 | 70 | 25 | 40 | 70 | 120 | 85 | 35 | 20 | 10 | 475 | 65% | 320 - 820 |

* Unimpaired runoff in prior months based on measured flows

(9) Forecast point names based on USGS gage names. Stanislaus below Goodwin also known as inflow to New Melones, Tuolumne River below La Grange also known as inflow to Don Pedro, Merced River below Merced Falls also known as inflow to McClure.

(10) Cordinated Forecast by National Weather Service California-Nevada River Forecast Center and Department of Water Resources, State of California

**MARCH 1, 2009 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 | | | | | |
| Scott River | | | | | |
| Scott River near Fort Jones (3) | 200 | 400 | 30 | 125 | 63% |
| Klamath River | | | | | |
| Total inflow to Upper Klamath Lake (4) | 515 | 939 | 149 | 365 | 71% |
| <hr/> | | | | | |
| NORTH LAHONTAN | | | | | |
| Truckee River | | | | | |
| Lake Tahoe to Farad accretions | 261 | 713 | 52 | 160 | 61% |
| Lake Tahoe Rise (assuming gates closed, ft) | 1.4 | 5.4 | 0.2 | 0.8 | 55% |
| Carson River | | | | | |
| West Fork Carson River at Woodfords | 54 | 135 | 12 | 36 | 66% |
| East Fork Carson River near Gardnerville | 187 | 407 | 43 | 135 | 72% |
| Walker River | | | | | |
| West Walker River below Little Walker, near Coleville | 154 | 330 | 35 | 115 | 75% |
| East Walker River near Bridgeport | 64 | 209 | 7 | 40 | 63% |
| <hr/> | | | | | |
| SOUTH LAHONTAN | | | | | |
| Owens River | | | | | |
| Total tributary flow to Owens River (5) | 235 | 579 | 96 | 178 | 76% |
| <hr/> | | | | | |

(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.

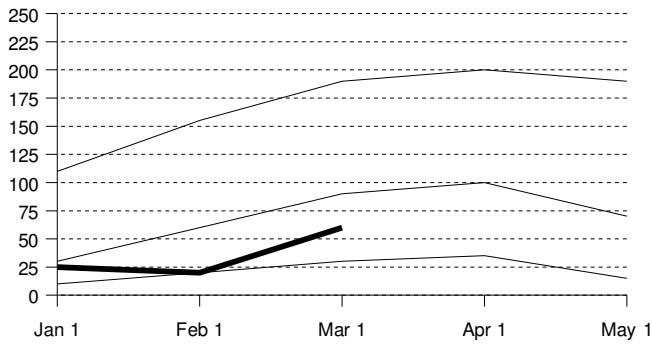
(4) Forecast by U.S. Natural Resources Conservation Service and National Weather Service California-Nevada River Forecast Center, April through September forecast, 30 year average based on years 1971-2000.

(5) Forecast by Department of Water and Power, City of Los Angeles, average based on years 1951-2000.

NORTH COAST REGION

Snowpack Accumulation

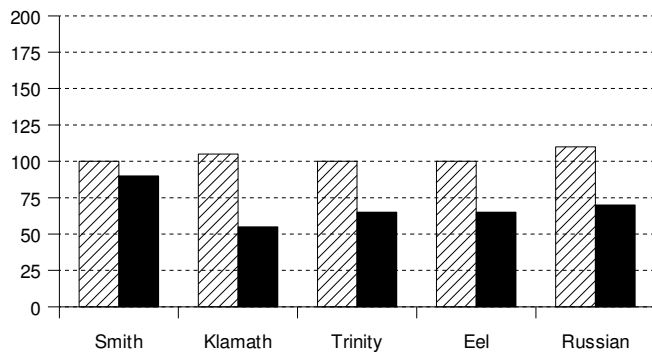
Water Content in % of April 1 Average



SNOWPACK- First of the month measurements made at 6 snow courses indicate an area wide snow water equivalent of 15.8 inches. This is 65 percent of the March 1 average and 60 percent of the seasonal (April 1) average. Last year at this time the pack was holding 34.2 inches of water.

Precipitation

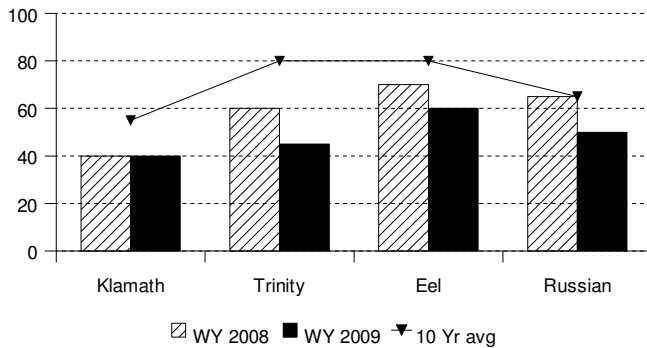
October 1 to date in % of Average



PRECIPITATION - Seasonal precipitation (October 1 through the end of last month) on this area was 70 percent of normal. Precipitation last month was about 110 percent of the monthly average. Seasonal precipitation at this time last year stood at 100 percent of normal.

Reservoir Storage

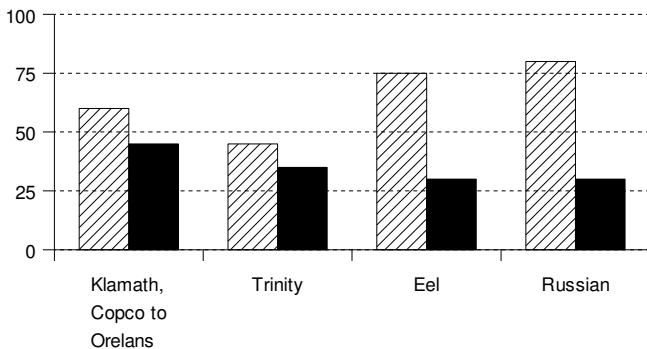
Contents of major reservoirs in % of capacity



RESERVOIR STORAGE- First of the month storage in 6 reservoirs was 1.4 million acre-feet which is 60 percent of average. About 45 percent of available capacity was being used. Storage in these reservoirs at this time last year was 85 percent of average.

Runoff

October 1 to date in % of average

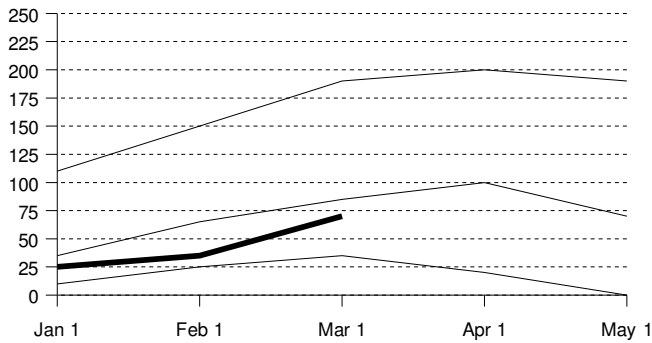


RUNOFF -Seasonal runoff of streams draining the area totaled 2.7 million acre-feet which is 35 percent of the average for this period. Last year, runoff for the same period was 70 percent of average.

SACRAMENTO RIVER REGION

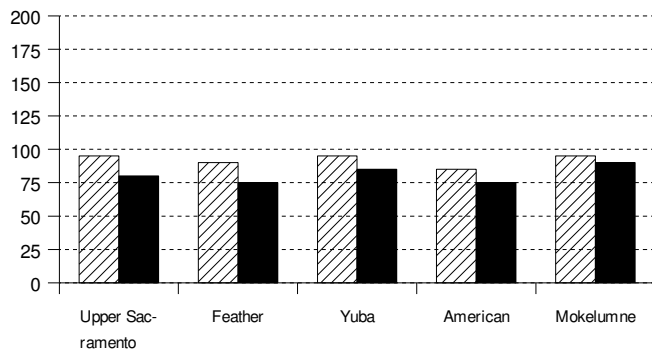
Snowpack Accumulation

Water Content in % of April 1 Average



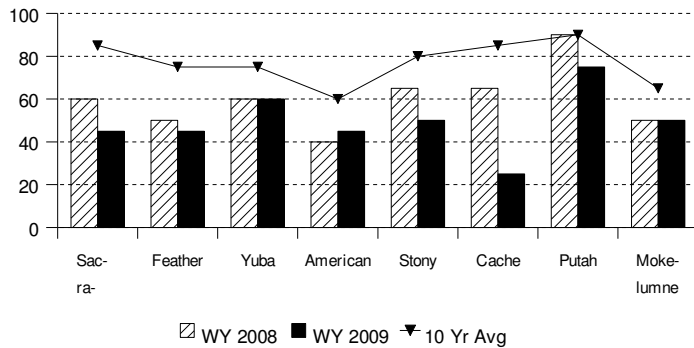
Precipitation

October 1 to date in % of Average



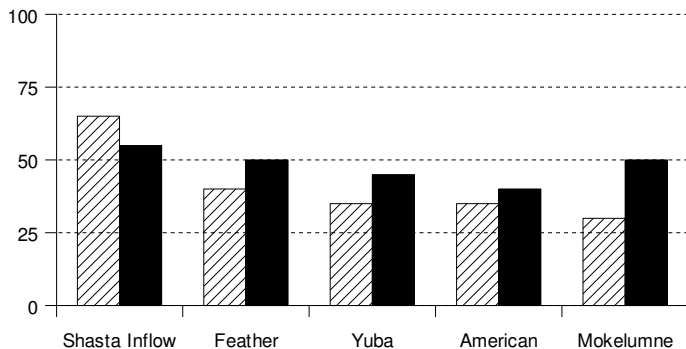
Reservoir Storage

Contents of major reservoirs in % of capacity



Runoff

October 1 to date in % of average



SNOWPACK- First of the month measurements made at 61 snow courses indicate an area wide snow water equivalent of 20.6 inches. This is 85 percent of the March 1 average and 70 percent of the seasonal (April 1) average. Last year at this time the pack was holding 31.6 inches of water.

PRECIPITATION - Seasonal precipitation (October 1 through the end of last month) on this area was 80 percent of normal. Precipitation last month was about 145 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 43 reservoirs was 8 million acre-feet which is 70 percent of average. About 50 percent of available capacity was being used. Storage in these reservoirs at this time last year was 80 percent of average.

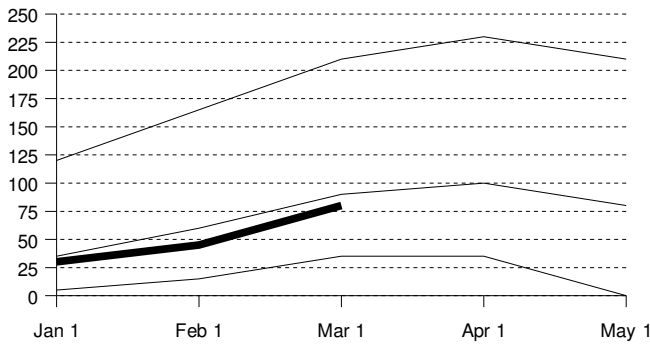
RUNOFF - Seasonal runoff of streams draining the area totaled 4.1 million acre-feet which is 50 percent of average for this period. Last year, runoff for the same period was 55 percent of average.

The **Sacramento Region 40-30-30 Water Supply Index** is forecast to be 5.1 assuming median meteorological conditions for the remainder of the year. This classifies the year as "critical" in the Sacramento Valley according to the State Water Resources Control Board.

SAN JOAQUIN RIVER AND TULARE LAKE REGIONS

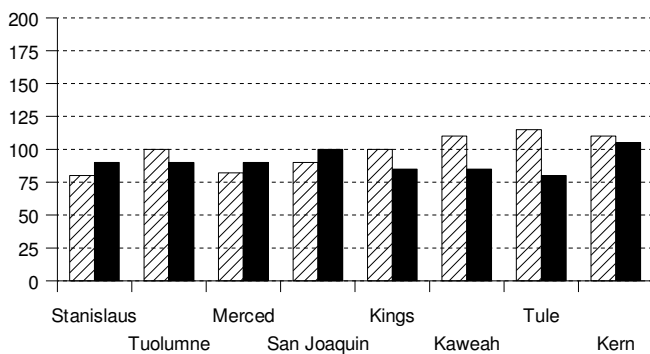
Snowpack Accumulation

Water Content in % of April 1 Average



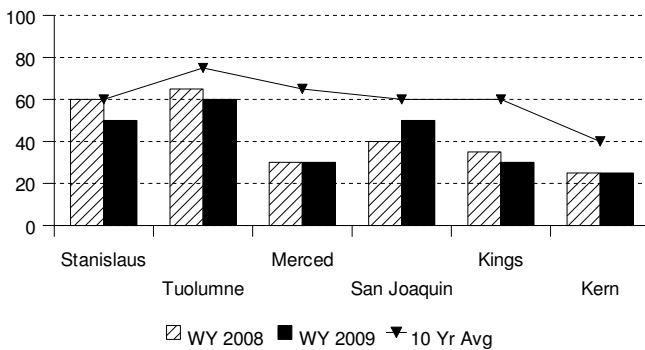
Precipitation

October 1 to date in % of Average



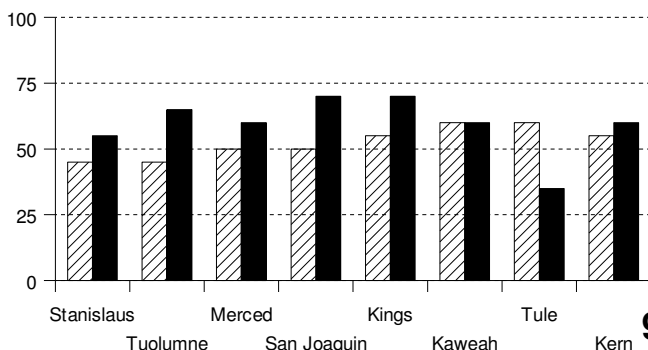
Reservoir Storage

Contents of major reservoirs in % of capacity



Runoff

October 1 to date in % of average



SNOWPACK- First of the month measurements made at 58 **San Joaquin Region** snow courses indicate an area wide snow water equivalent of 23.9 inches. This is 85 percent of the March 1 average and 75 percent of seasonal (April 1) average. Last year at this time the pack was holding 32 inches of water. At the same time 31 **Tulare Lake Region** snow courses indicated a basin-wide snow water equivalent of 18.9 inches which is 90 percent of the average for March 1 and 80 percent of the seasonal average. Last year at this time the basin was holding 29.1 inches of water.

PRECIPITATION - Seasonal precipitation (October 1 through the end of last month) on the **San Joaquin Region** was 90 percent of normal. Precipitation last month was about 120 percent of the monthly average. Seasonal precipitation at this time last year stood at 95 percent of normal. Seasonal precipitation on the **Tulare Lake Region** was 85 percent of normal. Precipitation last month was about 120 percent of the monthly average. Seasonal precipitation at this time last year stood at 105 percent of normal.

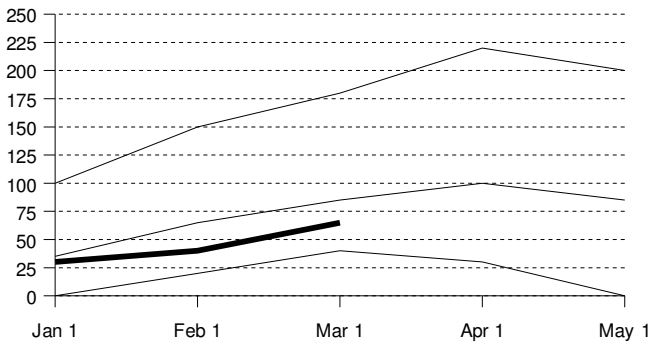
RESERVOIR STORAGE- First of the month storage in 34 **San Joaquin Region** reservoirs was 5.5 million acre-feet which is 75 percent of average. About 50 percent of available capacity was being used. Storage at this time last year was 95 percent of average. First of the month storage in 6 **Tulare Lake Region** reservoirs was 561 thousand acre-feet which is 65 percent of average and about 25 percent of available capacity. Storage in at this time last year was 70 percent of average.

RUNOFF- Seasonal runoff of streams draining the **San Joaquin Region** totaled 1 million acre-feet which is 60 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 370 thousand acre-feet which is 60 percent of average for this period. Last year runoff for this same period was 55 percent of average. The **San Joaquin Region 60-20-20 Water Supply Index** is forecast to be 2.1 assuming 75 percent meteorological conditions. This classifies the year as "critical" in the San Joaquin Region according to the State Water Resources Control Board.

NORTH AND SOUTH LAHONTAN REGIONS

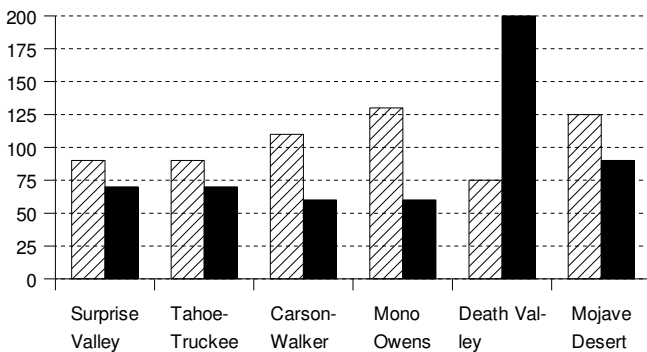
Snowpack Accumulation

Water Content in % of April 1 Average



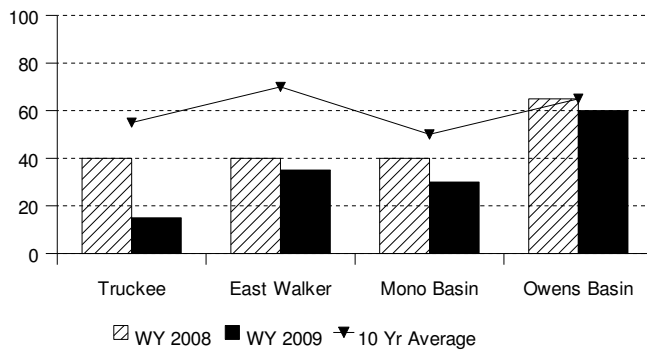
Precipitation

October 1 to date in % of Average



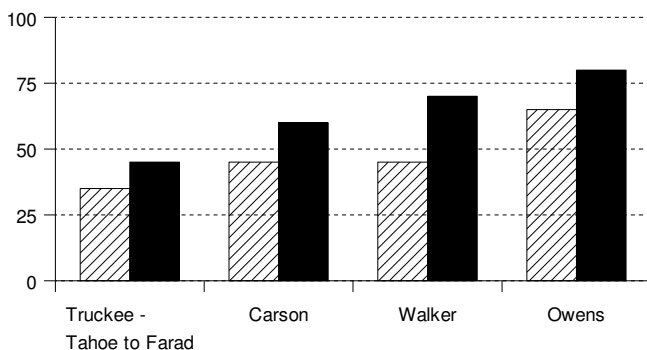
Reservoir Storage

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 18.1 inches. This is 75 percent of the March 1 average and 65 percent of seasonal (April 1) average. Last year at this time the pack was holding 27.5 inches of water. At the same time 17 **South Lahontan Region** snow courses indicated a basin-wide snow water equivalent of 13.1 inches which is 75 percent of the average for March 1 and 65 percent of the seasonal average. Last year at this time the basin was holding 21.5 inches of water.

PRECIPITATION - Seasonal precipitation (October 1 through the end of last month) on the **North Lahontan** was 65 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. Seasonal precipitation on the **South Lahontan** was 105 percent of normal. Precipitation last month was about 175 percent of the monthly average. Seasonal precipitation at this time last year stood at 110 percent of normal.

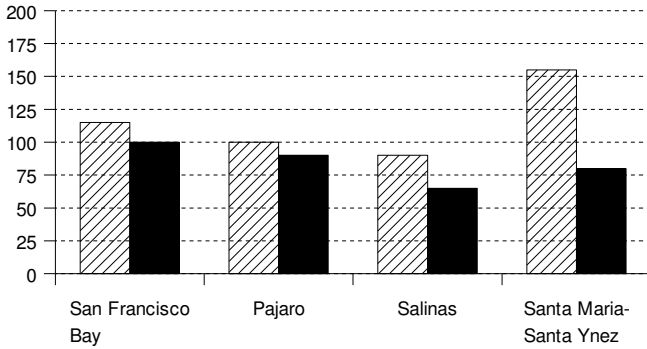
RESERVOIR STORAGE- First of the month storage in 5 **North Lahontan** reservoirs was 166 thousand acre-feet which is 30 percent of average. About 15 percent of available capacity was being used. Storage in these reservoirs at this time last year was 80 percent of average. Lake Tahoe was .3 feet above its natural rim on March 1. First of the month storage in 8 **South Lahontan** reservoirs was 247 thousand acre-feet which is 95 percent of average and about 60 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 112 thousand acre-feet which is 55 percent of average for this period. Last year, runoff for the same period was 40 percent of average. Seasonal runoff of the Owens River in the **South Lahontan Region** totaled 43 thousand acre-feet which is 80 percent of average for this period. Last year runoff for this same period was at 65 percent of average.

SAN FRANCISCO BAY AND CENTRAL COAST REGIONS

Precipitation

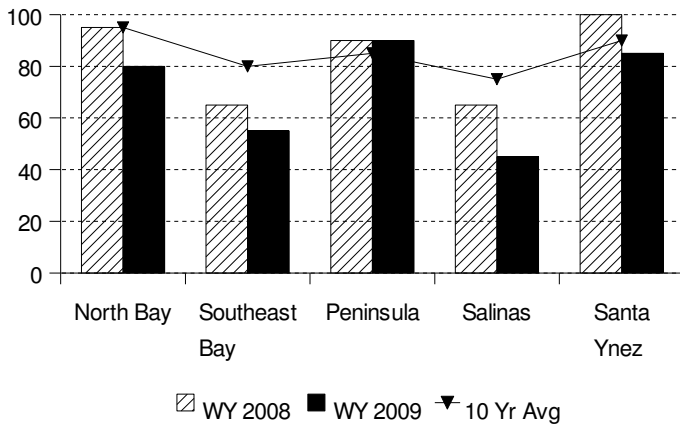
October 1 to date in % of Average



PRECIPITATION - Seasonal precipitation (October 1 through the end of last month) on the **San Francisco Bay Region** was 100 percent of normal. Precipitation last month was about 230 percent of the monthly average. Seasonal precipitation at this time last year stood at 115 percent of normal. Seasonal precipitation on the **Central Coast Region** was 80 percent of normal. Precipitation last month was about 145 percent of the monthly average. Seasonal precipitation at this time last year stood at 115 percent of normal.

Reservoir Storage

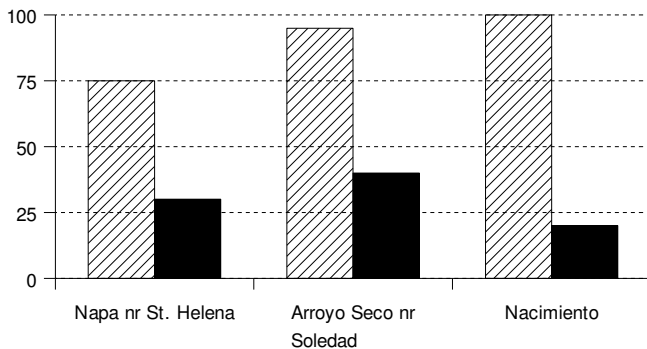
Contents of major reservoirs in % of capacity



RESERVOIR STORAGE- First of the month storage in 14 **San Francisco Bay Region** reservoirs was 346 thousand acre-feet which is 90 percent of average. About 65 percent of available capacity was being used. Storage in these reservoirs at this time last year was 105 percent of average. First of the month storage in 6 **Central Coast Region** reservoirs was 522 thousand acre-feet which is 80 percent of average and about 55 percent of available capacity. Storage in these reservoirs at this time last year was 110 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 16 thousand acre-feet which is 30 percent of average for this period. Last year, runoff for the same period was 75 percent of average. Seasonal runoff of streams draining the **Central Coast Region** totaled 59 thousand acre-feet which is 25 percent of average for this period. Last year runoff for this same period was 95 percent of average.

SOUTH COAST AND COLORADO RIVER REGIONS

PRECIPITATION - October through February (seasonal) precipitation on the **South Coast Region** was 85 percent of normal. February precipitation was 115 percent of the monthly average. Seasonal precipitation at this time last year was 110 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 110 percent of normal. Precipitation in February was 135 percent of average.

RESERVOIR STORAGE - March 1 storage in 29 major **South Coast Region** reservoirs was 1.3 million acre-feet or 90 percent of average. About 65 percent of available capacity was being used. Storage in these reservoirs at this time last year was about 85 percent of average. On March 1 combined storage in Lakes Powell, Mead, Mohave and Havasu was about 28 million acre-feet or about 68 percent of average. About 52 percent of available capacity was in use. Last year at this time, these reservoirs were storing about 26 million acre-feet.

RUNOFF - Seasonal runoff from selected **South Coast Region** streams totaled 11 thousand acre-feet which is 40 percent of average. Seasonal runoff from these streams last year was 90 percent of average.

COLORADO RIVER - The April -July inflow to Lake Powell is forecast to be 7.8 million acre-feet, which is 98 percent of average. The March 1 snowpack in the was 100 percent, highest in Yampa/White basins at 110 percent of average and lowest on the Duchesne at 80 percent.

STATE WATER PROJECT

On February 28, total storage in the major SWP reservoirs was about 2.44 MAF, compared with about 3.00 MAF at this time in 2008. End of month storage at Lake Oroville was about 1.36 MAF as compared to 1.45 MAF last year. The State's share of San Luis Reservoir storage was about 478 TAF, as compared to 913 TAF at this time last year. The combined storage in our southern reservoirs was about 570 TAF, compared with about 592 TAF at this time last year. SWP water deliveries through February 2009 are estimated to be about 144 TAF, which is about 12 TAF less than the same period in 2008. This is a combination of project and exchange waters. The State Water Project held its allocation at 15% (about 625 TAF) in February given the low storage conditions and continued low runoff projects for the remainder of the year.

**MAJOR WATER DISTRIBUTION PROJECTS
RESERVOIR STORAGE**

(AVERAGES BASED ON 1951-2000 OR PERIOD RECORD)

| RESERVOIR | CAPACITY 1,000 AF | AVERAGE STORAGE 1,000 AF | 2008 1,000 AF | STORAGE AT END OF February | | |
|--|----------------------|--------------------------------|------------------|----------------------------|--------------------|---------------------|
| | | | | 2009 1,000 AF | PERCENT AVERAGE | PERCENT CAPACITY |
| <i>STATE WATER PROJECT</i> | | | | | | |
| Lake Oroville | 3,538 | 2,523 | 1,449 | 1,361 | 54% | 38% |
| San Luis Reservoir (SWP) | 1,062 | 943 | 913 | 478 | 51% | 45% |
| Lake Del Valle | 77 | 34 | 41 | 33 | 97% | 43% |
| Lake Silverwood | 73 | 66 | 71 | 71 | 109% | 98% |
| Pyramid Lake | 171 | 163 | 136 | 165 | 102% | 97% |
| Castaic Lake | 325 | 271 | 312 | 275 | 102% | 85% |
| Perris Lake | 132 | 117 | 73 | 59 | 51% | 45% |
| <i>CENTRAL VALLEY PROJECT</i> | | | | | | |
| Trinity Lake | 2,448 | 1,851 | 1,486 | 1,033 | 56% | 42% |
| Lake Shasta | 4,552 | 3,370 | 2,641 | 1,960 | 58% | 43% |
| Whiskeytown Lake | 241 | 207 | 212 | 211 | 102% | 88% |
| Folsom Lake | 977 | 554 | 371 | 422 | 76% | 43% |
| New Melones Reservoir | 2,420 | 1,440 | 1,531 | 1,208 | 84% | 50% |
| Millerton Lake | 520 | 345 | 264 | 298 | 86% | 57% |
| San Luis Reservoir (CVP) | 971 | 816 | 862 | 343 | 42% | 35% |
| <i>COLORADO RIVER PROJECT</i> | | | | | | |
| Lake Mead | 26,159 | 20,494 | 13,062 | 12,539 | 61% | 48% |
| Lake Powell | 24,322 | 18,176 | 10,880 | 12,938 | 71% | 53% |
| Lake Mohave | 1,810 | 1,683 | 1,593 | 1,679 | 100% | 93% |
| Lake Havasu | 619 | 550 | 551 | 544 | 99% | 88% |
| <i>EAST BAY MUNICIPAL UTILITY DISTRICT</i> | | | | | | |
| Pardee Res | 198 | 181 | 174 | 176 | 97% | 89% |
| Camanche Reservoir | 417 | 252 | 207 | 157 | 62% | 38% |
| East Bay (4 res.) | 147 | 132 | 118 | 119 | 90% | 81% |
| <i>CITY AND COUNTY OF SAN FRANCISCO</i> | | | | | | |
| Hetch-Hetchy Reservoir | 360 | 148 | 168 | 236 | 159% | 66% |
| Cherry Lake | 268 | 125 | 152 | 238 | 190% | 89% |
| Lake Eleanor | 26 | 10 | 2 | 16 | 155% | 61% |
| South Bay/Peninsula (4 res.) | 225 | 172 | 166 | 153 | 89% | 68% |
| <i>CITY OF LOS ANGELES (D.W.P.)</i> | | | | | | |
| Lake Crowley | 183 | 126 | 126 | 115 | 91% | 63% |
| Grant Lake | 48 | 27 | 23 | 7 | 27% | 16% |
| Other Aqueduct Storage (6 res.) | 83 | 75 | 54 | 54 | 72% | 65% |

TELEMETERED SNOW WATER EQUIVALENTS

March 1, 2009

(AVERAGES BASED ON PERIOD RECORD)

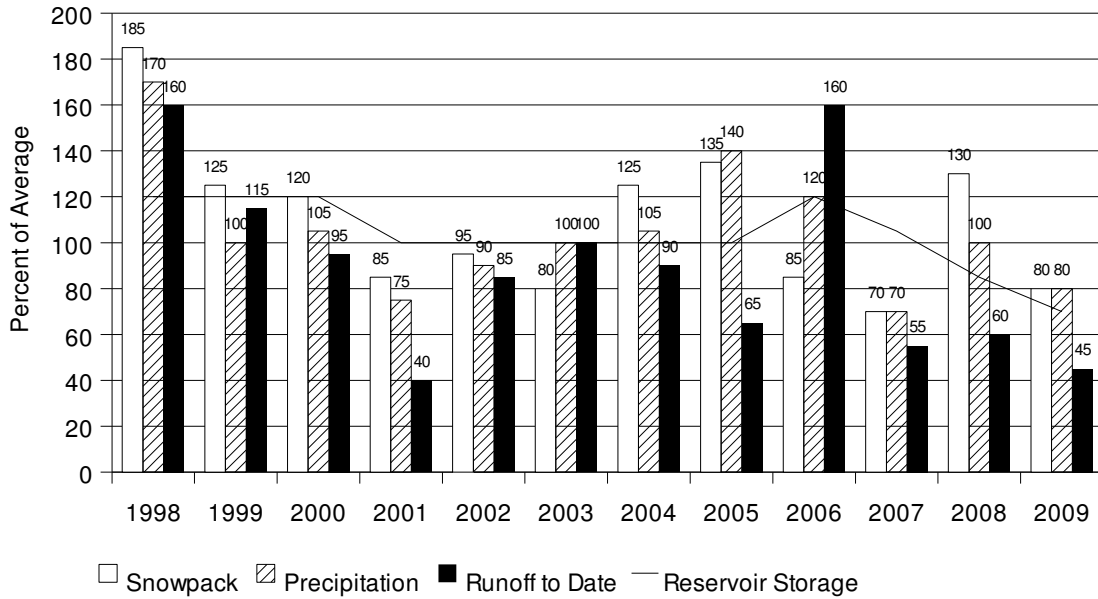
| BASIN NAME | STATION NAME | ELEV | INCHES OF WATER EQUIVALENT | | | | |
|--|-------------------------|-------|----------------------------|-----------------------------|--------------------|--------------------|------|
| | | | APRIL 1 AVERAGE | PERCENT Mar 1 OF AVERAGE | 24 HRS PREVIOUS | 1 WEEK PREVIOUS | |
| TRINITY RIVER | | | | | | | |
| | Peterson Flat | 7150' | 29.2 | 12.7 | 43.6 | 12.6 | 10.0 |
| | Red Rock Mountain | 6700' | 39.6 | 33.5 | 84.6 | 32.5 | 28.6 |
| | Bonanza King | 6450' | 40.5 | 20.3 | 50.1 | 20.3 | 17.0 |
| | Shimmy Lake | 6400' | 40.3 | 28.8 | 71.4 | 27.4 | 19.1 |
| | Middle Boulder 3 | 6200' | 28.3 | 20.3 | 71.6 | 19.2 | 15.3 |
| | Highland Lakes | 6030' | 29.9 | 21.1 | 70.6 | 20.8 | 19.0 |
| | Scott Mountain | 5900' | 16.0 | 14.5 | 90.9 | 14.1 | 10.9 |
| | Mumbo Basin | 5650' | 22.4 | 9.8 | 43.9 | 9.8 | 9.1 |
| | Big Flat | 5100' | 15.8 | 14.0 | 88.8 | 13.9 | 11.8 |
| | Crowder Flat | 5100' | — | 2.9 | — | 3.4 | 3.7 |
| SACRAMENTO RIVER | | | | | | | |
| | Cedar Pass | 7100' | 18.1 | 12.2 | 67.4 | 12.3 | 10.5 |
| | Blacks Mountain | 7050' | 12.7 | 7.4 | 58.5 | 7.4 | 6.8 |
| | Sand Flat | 6750' | 42.4 | 19.4 | 45.8 | 19.3 | 15.7 |
| | Medicine Lake | 6700' | 32.6 | 19.0 | 58.2 | 18.6 | 13.9 |
| | Adin Mountain | 6200' | 13.6 | 11.2 | 82.4 | 11.3 | 9.7 |
| | Snow Mountain | 5950' | 27.0 | 31.7 | 117.3 | 31.6 | 24.5 |
| | Slate Creek | 5700' | 29.0 | 25.9 | 89.4 | 25.6 | 25.9 |
| | Stouts Meadow | 5400' | 36.0 | 28.5 | 79.2 | 27.8 | 27.4 |
| FEATHER RIVER | | | | | | | |
| | Lower Lassen Peak | 8250' | — | — | — | — | — |
| | Kettle Rock | 7300' | 25.5 | 19.1 | 74.7 | 18.6 | 15.7 |
| | Grizzly Ridge | 6900' | 29.7 | 19.8 | 66.7 | 19.8 | 16.0 |
| | Pilot Peak | 6800' | 52.6 | 27.0 | 51.4 | 26.3 | 18.1 |
| | Gold Lake | 6750' | 36.5 | 27.1 | 74.2 | 26.8 | 23.0 |
| | Humbug | 6500' | 28.0 | 22.1 | 78.9 | 21.7 | 17.6 |
| | Harkness Flat | 6200' | 28.5 | 16.2 | 56.7 | 16.1 | 14.3 |
| | Rattlesnake | 6100' | 14.0 | 14.6 | 104.6 | 14.5 | 13.2 |
| | Bucks Lake | 5750' | 44.7 | 35.8 | 80.0 | 35.0 | 34.3 |
| | Four Trees | 5150' | 20.0 | 26.4 | 132.0 | 26.4 | 27.7 |
| EEL RIVER | | | | | | | |
| | Noel Spring | 5100' | — | 6.7 | — | 6.8 | 7.7 |
| YUBA & AMERICAN RIVERS | | | | | | | |
| | Lake Lois | 8600' | 39.5 | — | — | — | — |
| | Schneiders | 8750' | 34.5 | 30.8 | 89.2 | 30.9 | 27.6 |
| | Carson Pass | 8353' | — | 22.8 | — | 22.7 | 19.5 |
| | Caples Lake | 8000' | 30.9 | 14.4 | 46.7 | 14.5 | 13.3 |
| | Alpha | 7600' | 35.9 | 20.8 | 58.1 | 17.5 | 18.9 |
| | Meadow Lake | 7200' | 55.5 | 29.7 | 53.5 | 29.8 | 23.4 |
| | Silver Lake | 7100' | 22.7 | 18.3 | 80.5 | 17.9 | 15.4 |
| | Central Sierra Snow Lab | 6900' | 33.6 | 27.6 | 82.1 | 27.6 | 21.8 |
| | Huysink | 6600' | 42.6 | 21.6 | 50.7 | 21.5 | 19.2 |
| | Van Vleck | 6700' | 35.9 | 28.3 | 78.9 | 28.3 | 25.8 |
| | Robinson Cow Camp | 6480' | — | — | — | — | — |
| | Robbs Saddle | 5900' | 21.4 | 17.3 | 80.8 | 17.6 | 17.8 |
| | Greek Store | 5600' | 21.0 | 18.2 | 86.8 | 18.1 | 17.9 |
| | Blue Canyon | 5280' | 9.0 | 11.7 | 130.0 | 11.7 | 12.7 |
| | Robbs Powerhouse | 5150' | 5.2 | 11.5 | 221.9 | 11.6 | 11.8 |
| MOKELUMNE & STANISLAUS RIVERS | | | | | | | |
| | Deadman Creek | 9250' | 37.2 | 18.0 | 48.4 | 17.8 | 16.3 |
| | Highland Meadow | 8700' | 47.9 | — | — | — | — |
| | Gianelli Meadow | 8400' | 55.5 | 29.5 | 53.2 | 29.5 | 26.3 |
| | Lower Relief Valley | 8100' | 41.2 | 27.8 | 67.4 | 27.7 | 23.2 |
| | Blue Lakes | 8000' | 33.1 | 17.5 | 52.9 | 17.4 | 15.6 |
| | Mud Lake | 7900' | 44.9 | 36.2 | 80.7 | 36.0 | 30.4 |
| | Stanislaus Meadow | 7750' | 47.5 | 32.6 | 68.5 | 32.6 | 27.3 |
| | Bloods Creek | 7200' | 35.5 | 22.6 | 63.5 | 22.4 | 18.8 |
| | Black Springs | 6500' | 32.0 | 19.1 | 59.5 | 19.1 | 18.8 |
| TUOLUMNE & MERCED RIVERS | | | | | | | |
| | Tioga Pass Entrance | 9945' | — | — | — | — | — |
| | Dana Meadows | 9800' | 27.7 | 20.0 | 72.2 | 19.7 | 19.5 |
| | Slide Canyon | 9200' | 41.1 | 27.3 | 66.5 | 27.4 | 25.3 |
| | Lake Tenaya | 8150' | 33.1 | 22.5 | 68.1 | 22.7 | 20.6 |
| | Tuolumne Meadows | 8600' | 22.6 | — | — | — | — |
| | Horse Meadow | 8400' | 48.6 | 37.8 | 77.8 | 37.8 | 33.8 |
| | Ostrander Lake | 8200' | 34.8 | — | — | — | — |
| | White Wolf | 7900' | — | 20.7 | — | 20.9 | 18.9 |
| | Paradise Meadow | 7650' | 41.3 | — | — | — | — |
| | Gin Flat | 7050' | 34.2 | 18.6 | 54.3 | 18.6 | 17.1 |
| | Lower Kibbie Ridge | 6700' | 27.4 | 14.5 | 52.8 | 14.6 | 14.7 |

| | | | | | | | |
|---------------------------------|--------|------|------|------|------|------|--|
| SAN JOAQUIN RIVER | | | | | | | |
| Volcanic Knob | 10050' | 30.1 | — | — | — | 8.5 | |
| Agnew Pass | 9450' | 32.3 | 21.5 | 66.5 | 21.5 | 19.7 | |
| Kaiser Point | 9200' | 37.8 | 17.5 | 46.2 | 17.5 | 15.7 | |
| Green Mountain | 7900' | 30.8 | 21.2 | 69.0 | 21.2 | 18.1 | |
| Devil's Postpile | 7569' | — | — | — | — | — | |
| Tamarack Summit | 7550' | 30.5 | 20.2 | 66.4 | 20.2 | 18.2 | |
| Chilkoot Meadow | 7150' | 38.0 | 26.4 | 69.5 | 26.4 | 24.0 | |
| Huntington Lake | 7000' | 20.1 | — | — | — | — | |
| Graveyard Meadow | 6900' | 18.8 | 16.1 | 85.5 | 16.1 | 14.3 | |
| Poison Ridge | 6900' | 28.9 | 20.5 | 71.0 | 20.3 | 19.1 | |
| KINGS RIVER | | | | | | | |
| Bishop Pass | 11200' | 34.0 | — | — | — | — | |
| Charlotte Lake | 10400' | 27.5 | 21.8 | 79.3 | 21.8 | 19.9 | |
| State Lakes | 10300' | 29.0 | 21.1 | 72.8 | 21.1 | 19.1 | |
| Mitchell Meadow | 9900' | 32.9 | 24.1 | 73.3 | 24.1 | 22.8 | |
| Blackcap Basin | 10300' | 34.3 | 25.9 | 75.5 | 26.0 | 24.1 | |
| Upper Burnt Corral | 9700' | 34.6 | 25.6 | 74.0 | 25.6 | 23.6 | |
| West Woodchuck Meadow | 9100' | 32.8 | 19.2 | 58.5 | 19.2 | 19.0 | |
| Big Meadows | 7600' | 25.9 | 23.3 | 89.9 | 23.3 | 22.7 | |
| KAWEAH & TULE RIVERS | | | | | | | |
| Farewell Gap | 9500' | 34.5 | 29.1 | 84.3 | 29.0 | 26.1 | |
| Quaking Aspen | 7200' | 21.0 | 19.2 | 91.3 | 19.2 | 18.9 | |
| Giant Forest | 6650' | 10.0 | — | — | — | — | |
| KERN RIVER | | | | | | | |
| Upper Tyndall Creek | 11400' | 27.7 | — | — | — | 12.4 | |
| Crabtree Meadow | 10700' | 19.8 | — | — | — | — | |
| Chagoopa Plateau | 10300' | 21.8 | 16.6 | 76.2 | 16.6 | — | |
| Pascoes | 9150' | 24.9 | 21.6 | 86.7 | 21.5 | 19.6 | |
| Tunnel Guard Station | 8900' | 15.6 | — | — | — | — | |
| Wet Meadows | 8950' | 30.3 | 23.8 | 78.5 | 23.7 | 21.5 | |
| Casa Vieja Meadows | 8300' | 20.9 | 15.1 | 72.2 | 14.9 | 14.3 | |
| Beach Meadows | 7650' | 11.0 | — | — | — | — | |
| SURPRISE VALLEY AREA | | | | | | | |
| Dismal Swamp | 7050' | 29.2 | 18.0 | 61.6 | 18.0 | 15.3 | |
| TRUCKEE RIVER | | | | | | | |
| Independence Lake | 8450' | 41.4 | 27.4 | 66.2 | 27.4 | 20.7 | |
| Big Meadows | 8700' | 25.7 | 11.3 | 44.0 | 11.2 | 10.6 | |
| Squaw Valley | 8200' | 46.5 | 32.3 | 69.5 | 32.1 | 25.6 | |
| Independence Camp | 7000' | 21.8 | 6.0 | 27.5 | 6.3 | 6.9 | |
| Independence Creek | 6500' | 12.7 | 7.1 | 55.9 | 7.4 | 9.0 | |
| Truckee 2 | 6400' | 14.3 | 11.4 | 79.7 | 11.8 | 11.9 | |
| LAKE TAHOE BASIN | | | | | | | |
| Mount Rose Ski Area | 8900' | 38.5 | 22.0 | 57.1 | 21.9 | 19.4 | |
| Heavenly Valley | 8800' | 28.1 | 13.3 | 47.3 | 13.1 | 12.7 | |
| Hagans Meadow | 8000' | 16.5 | 10.1 | 61.2 | 10.4 | 9.7 | |
| Marlette Lake | 8000' | 21.1 | 9.3 | 44.1 | 8.9 | 8.6 | |
| Echo Peak 5 | 7800' | 39.5 | 26.6 | 67.3 | 26.7 | 24.5 | |
| Rubicon Peak 2 | 7500' | 29.1 | 16.1 | 55.3 | 16.1 | 14.5 | |
| Tahoe City Cross | 6750' | 16.0 | 10.6 | 66.2 | 10.9 | 11.4 | |
| Ward Creek 3 | 6750' | 39.4 | 26.0 | 66.0 | 25.7 | 23.5 | |
| Fallen Leaf Lake | 6250' | 7.0 | 6.0 | 85.7 | 6.4 | 7.2 | |
| CARSON RIVER | | | | | | | |
| Ebbetts Pass | 8700' | 38.8 | 22.6 | 58.2 | 22.4 | 20.0 | |
| Horse Meadow | 8557' | — | 12.5 | — | 12.4 | 11.7 | |
| Burnside Lake | 8129' | — | 15.9 | — | 15.8 | 14.2 | |
| Forestdale Creek | 8017' | — | 24.6 | — | 24.6 | 22.1 | |
| Poison Flat | 7900' | 16.2 | 12.4 | 76.5 | 12.3 | 11.6 | |
| Monitor Pass | 8350' | — | 9.5 | — | 9.5 | 9.1 | |
| Spratt Creek | 6150' | 4.5 | 3.5 | 77.8 | 3.7 | 5.7 | |
| WALKER RIVER | | | | | | | |
| Leavitt Lake | 9600' | — | 42.0 | — | 41.7 | 37.5 | |
| Summit Meadow | 9313' | — | 12.2 | — | 12.2 | 11.5 | |
| Virginia Lakes | 9300' | 20.3 | 9.6 | 47.3 | 9.4 | 9.4 | |
| Lobdell Lake | 9200' | 17.3 | 8.4 | 48.6 | 8.3 | 7.9 | |
| Sonora Pass Bridge | 8750' | 26.0 | 12.9 | 49.6 | 12.9 | 11.6 | |
| Leavitt Meadows | 7200' | 8.0 | 7.7 | 96.2 | 7.5 | 8.2 | |
| OWENS RIVER/MONO LAKE | | | | | | | |
| Gem Pass | 10750' | 31.7 | 23.1 | 72.9 | 23.3 | 21.1 | |
| Sawmill | 10200' | 19.4 | 10.4 | 53.8 | 10.5 | 10.4 | |
| Cottonwood Lakes | 10150' | 11.6 | 9.1 | 78.6 | 9.2 | 9.1 | |
| Big Pine Creek | 9800' | 17.9 | 10.3 | 57.4 | 10.3 | 10.0 | |
| South Lake | 9600' | 16.0 | 10.2 | 63.7 | 10.2 | 9.6 | |
| Mammoth Pass | 9300' | 42.4 | 24.8 | 58.6 | 24.8 | 22.9 | |
| Rock Creek Lakes | 9700' | 14.0 | 7.5 | 53.8 | 7.7 | 7.4 | |

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 77th Western Snow Conference (WSC) will be held in Canmore, Alberta 20-23 April 2009, hosted by the North Continental 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 the Guyot Flat snow course in February, 2007.