# Summary of Water Conditions

February 1, 2015

This summary is a snapshot of water conditions as of February 1; as it is written, a major Pacific storm has brought some easing of drought in Northern California. After 3 years of drought, water year 2015 seemed to be getting off to a good start with much above average rainfall in December. However, after Christmas, conditions turned very dry with little or no precipitation through January. Record low amounts for January were recorded at many California locations. The December storms were warm with rain to high elevations; as a result snowpack accumulations are similar to those of 1977, our record dry year. The December storms were weaker in the southern half of the Sierra which compounded the water deficits in San Joaquin-Tulare, and also the Central Coast regions.

***Forecasts*** of median April through July runoff are around 50 percent average due to the poor snowpack compared to 40 percent in last year's forecast at this time. Water year runoff forecasts are better at 60 percent due to good runoff in the north in December.

***Snowpack*** water content is poor at 20 percent for this date, not much better than last year's dismal 10 percent. The pack is only about 10 percent of the April 1 average, normally the time of maximum accumulation. There is little snow in the lower zones because of the warmness of December storms and a warm January.

***Precipitation*** from October through January was about 80 percent of average statewide so far compared to only 20 percent last year. The north fared better than the south. January precipitation was about 20 percent of average.

***Runoff*** to date was 65 percent of average compared to only 15 percent last year on this date. But January runoff was 25 percent of average for the month compared to 10 percent for the same month last year. Estimated runoff for the eight major rivers of the Sacramento-San Joaquin River region in January 2015 was 0.81 million acre-feet.

***Reservoir Storage*** is about 65 percent of average, nearly the same overall as reported one year ago. But southern Sierra reservoirs are considerably lower now. In 1991,total reservoir storage at the end of January stood at 50 percent.

**SUMMARY OF WATER CONDITIONS**
**IN PERCENT OF AVERAGE**

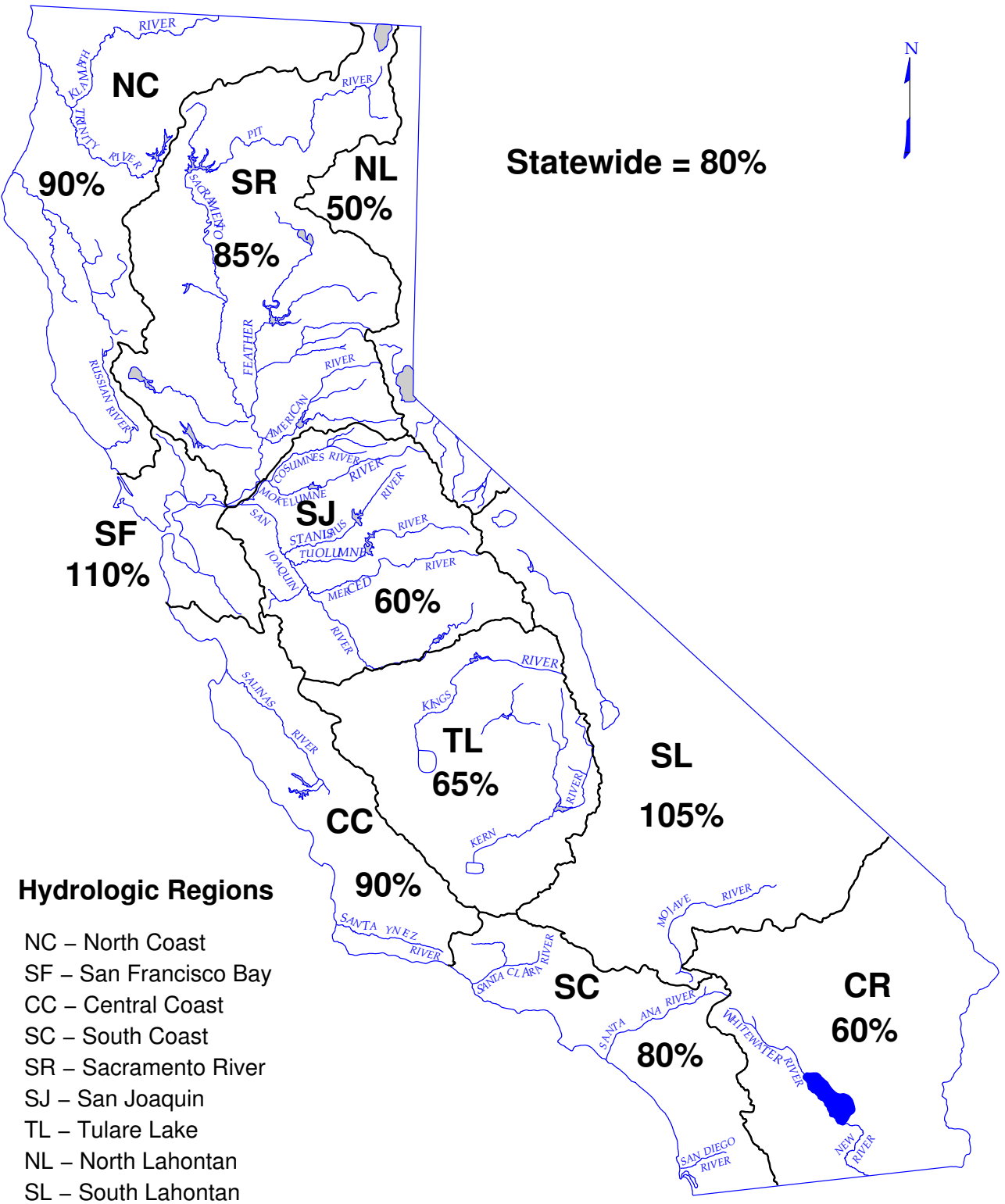
| HYDROLOGIC REGION | PRECIPITATION OCTOBER 1 TO DATE | FEBRUARY 1 SNOW WATER CONTENT | FEBRUARY 1 RESERVOIR STORAGE | RUNOFF OCTOBER 1 TO DATE | APR-JULY RUNOFF FORECAST | WATER YEAR RUNOFF FORECAST |
|---|---|---|---|---|---|---|
| NORTH COAST | 90 | 10 | 55 | 70 | 50 | 75 |
| SAN FRANCISCO BAY | 110 | -- | 95 | 90 | -- | -- |
| CENTRAL COAST | 90 | -- | 30 | 35 | -- | -- |
| SOUTH COAST | 80 | -- | 65 | 45 | -- | -- |
| SACRAMENTO RIVER | 85 | 20 | 75 | 75 | 55 | 70 |
| SAN JOAQUIN RIVER | 60 | 20 | 60 | 25 | 45 | 45 |
| TULARE LAKE | 65 | 25 | 35 | 25 | 40 | 40 |
| NORTH LAHONTAN | 50 | 15 | 15 | 45 | 40 | 40 |
| SOUTH LAHONTAN | 105 | 20 | 85 | 70 | 25 | 40 |
| COLORADO RIVER-DESERT | 60 | -- | -- | -- | -- | -- |
| **STATEWIDE** | 80 | 20 | 65 | 65 | 50 | 60 |

# SEASONAL PRECIPITATION

IN PERCENT OF AVERAGE TO DATE

October 1, 2014 through January 31, 2015






## Hydrologic Regions

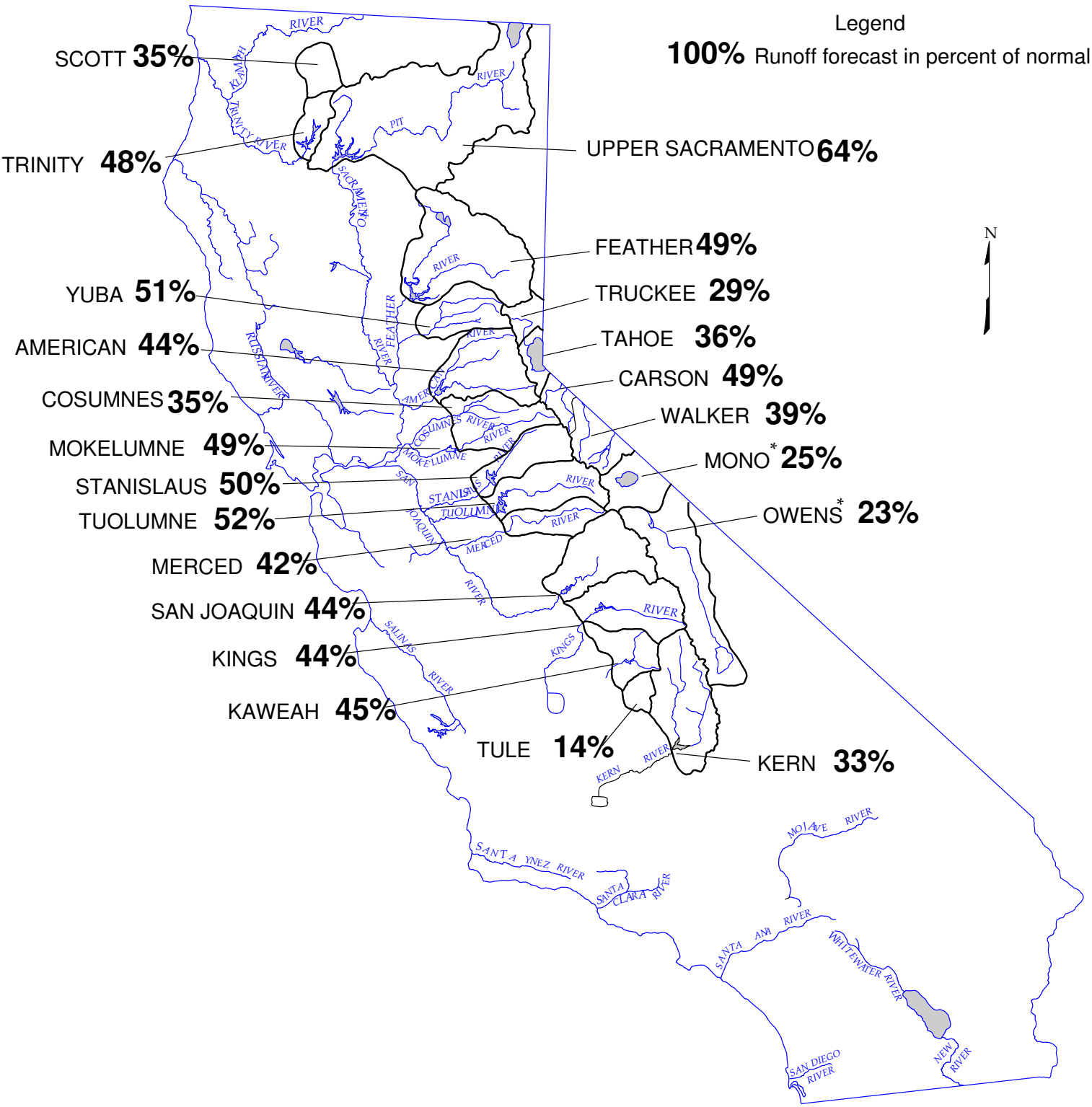
NC – North Coast
SF – San Francisco Bay
CC – Central Coast
SC – South Coast
SR – Sacramento River
SJ – San Joaquin
TL – Tulare Lake
NL – North Lahontan
SL – South Lahontan
CR – Colorado River–Desert

WATER YEAR IS OCTOBER 1 THROUGH SEPTEMBER 30

# DEPARTMENT OF WATER RESOURCES
# CALIFORNIA COOPERATIVE SNOW SURVEYS



## FORECAST OF APRIL – JULY
## UNIMPAIRED SNOWMELT RUNOFF
## February 1, 2015




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

## FEBRUARY 1, 2015 FORECASTS
## APRIL-JULY UNIMPAIRED RUNOFF

| HYDROLOGIC REGION and Watershed | Unimpaired Runoff in 1,000 Acre-Feet (1) HISTORICAL 50 Yr Avg (2) | Max of Record | Min of Record | FORECAST Apr-Jul Forecasts | Pct of Avg | 80 % Probability Range (1) |
|---|---|---|---|---|---|---|
| **North Coast** | | | | | | |
| Trinity River at Lewiston Lake | 651 | 1,593 | 80 | **310** | 48% | 90 - 710 |
| **SACRAMENTO RIVER** | | | | | | |
| **Upper Sacramento River** | | | | | | |
| Sacramento River at Delta above Shasta Lake | 302 | 751 | 39 | 160 | 53% | |
| McCloud River above Shasta Lake | 392 | 850 | 185 | 260 | 66% | |
| Pit River near Montgomery Creek + Squaw Creek | 1,046 | 2,098 | 480 | 700 | 67% | |
| Total Inflow to Shasta Lake | 1,806 | 3,525 | 726 | **1,150** | 64% | 690 - 2,150 |
| **Sacramento River above Bend Bridge, near Red Bluff** | 2,485 | 5,117 | 943 | **1,550** | 62% | 890 - 3,220 |
| **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 | 490 | 48% | |
| Middle Fork near Clio (4) | 86 | 518 | 4 | 40 | 47% | |
| South Fork at Ponderosa Dam (3) | 110 | 267 | 13 | 50 | 45% | |
| Feather River at Oroville | 1,758 | 4,676 | 392 | **860** | 49% | 380 - 2,300 |
| **Yuba River** | | | | | | |
| North Yuba below Goodyears Bar | 279 | 647 | 51 | 140 | 50% | |
| Inflow to Jackson Mdws and Bowman Reservoirs (3) | 112 | 236 | 25 | 60 | 54% | |
| South Yuba at Langs Crossing (3) | 233 | 481 | 57 | 120 | 52% | |
| Yuba River near Smartsville plus Deer Creek | 996 | 2,424 | 200 | **510** | 51% | 190 - 1,200 |
| **American River** | | | | | | |
| North Fork at North Fork Dam (3) | 262 | 716 | 43 | 100 | 38% | |
| Middle Fork near Auburn (3) | 522 | 1,406 | 100 | 220 | 42% | |
| Silver Creek Below Camino Diversion Dam (3) | 173 | 386 | 37 | 80 | 46% | |
| American River below Folsom Lake | 1,231 | 3,074 | 229 | **540** | 44% | 190 - 1,560 |
| **SAN JOAQUIN RIVER** | | | | | | |
| **Cosumnes River at Michigan Bar** | 128 | 446 | 8 | **45** | 35% | 6 - 225 |
| **Mokelumne River** | | | | | | |
| North Fork near West Point (5) | 437 | 829 | 104 | 210 | 48% | |
| Total Inflow to Pardee Reservoir | 468 | 1,076 | 102 | **230** | 49% | 85 - 530 |
| **Stanislaus River** | | | | | | |
| Middle Fork below Beardsley Dam (3) | 334 | 702 | 64 | 160 | 48% | |
| North Fork Inflow to McKays Point Dam (3) | 224 | 503 | 34 | 100 | 45% | |
| Stanislaus River below Goodwin Reservoir (9) | 699 | 1,710 | 116 | **350** | 50% | 100 - 810 |
| **Tuolumne River** | | | | | | |
| Cherry Creek & Eleanor Creek near Hetch Hetchy | 315 | 727 | 97 | 170 | 54% | |
| Tuolumme River near Hetch Hetchy | 604 | 1,392 | 153 | 340 | 56% | |
| Tuolumne River below La Grange Reservoir (9) | 1,221 | 2,682 | 301 | **640** | 52% | 270 - 1,430 |
| **Merced River** | | | | | | |
| Merced River at Pohono Bridge | 372 | 888 | 80 | 170 | 46% | |
| Merced River below Merced Falls (9) | 636 | 1,587 | 123 | **270** | 42% | 105 - 780 |
| **San Joaquin River** | | | | | | |
| San Joaquin River at Mammoth Pool (7) | 1,026 | 2,279 | 235 | 480 | 47% | |
| Big Creek below Huntington Lake (8) | 91 | 264 | 11 | 45 | 49% | |
| South Fork near Florence Lake (7) | 201 | 511 | 58 | 90 | 45% | |
| San Joaquin River inflow to Millerton Lake | 1,258 | 3,355 | 262 | **550** | 44% | 270 - 1,370 |
| **TULARE LAKE** | | | | | | |
| **Kings River** | | | | | | |
| North Fork Kings River near Cliff Camp (3) | 239 | 565 | 50 | 100 | 42% | |
| Kings River below Pine Flat Reservoir | 1,236 | 3,113 | 274 | **540** | 44% | 260 - 1,340 |
| **Kaweah River below Terminus Reservoir** | 290 | 814 | 62 | **130** | 45% | 58 - 370 |
| **Tule River below Lake Success** | 64 | 259 | 2 | **9** | 14% | 2 - 99 |
| **Kern River** | | | | | | |
| Kern River near Kernville | 384 | 1,203 | 83 | 140 | 36% | |
| Kern River inflow to Lake Isabella | 465 | 1,657 | 84 | **155** | 33% | 80 - 640 |

(1) See inside back cover for definition
(2) All 50 year averages are based on years 1961-2010 unless otherwise noted
(3) 50 year average based on years 1941-90
(4) 44 year average based on years 1936-79
(5) 36 year average based on years 1936-72
(6) 45 year average based on years 1936-81
(7) 50 year average based on years 1953-2002
(8) 50 year average based on years 1946-1995

**FEBRUARY 1, 2015 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) |
| 1376 | 2990 | 200 | 418 | 170 | 140 | 130 | 120 | 45 | 15 | 4 | 3 | **1,045** | 76% | 600 - 1,855 |
| 876 | 1,965 | 165 | | | | | | | | | | | | |
| 1,200 | 2,353 | 557 | | | | | | | | | | | | |
| 3,082 | 5,150 | 1,484 | | | | | | | | | | | | |
| 5,979 | 10,796 | 2,479 | 1,621 | 750 | 600 | 420 | 320 | 225 | 185 | 170 | 159 | **4,450** | 74% | 3,305 - 7,115 |
| 8,727 | 17,180 | 3,294 | 2,652 | 1,200 | 930 | 555 | 435 | 315 | 245 | 215 | 213 | **6,760** | 77% | 4,810 - 10,690 |
| 780 | 1,269 | 366 | | | | | | | | | | | | |
| 2,417 | 4,400 | 666 | | | | | | | | | | | | |
| 219 | 637 | 24 | | | | | | | | | | | | |
| 291 | 562 | 32 | | | | | | | | | | | | |
| 4,523 | 9,492 | 994 | 916 | 470 | 430 | 350 | 280 | 140 | 90 | 75 | 64 | **2,815** | 62% | 1,715 - 5,495 |
| 564 | 1,056 | 102 | | | | | | | | | | | | |
| 181 | 292 | 30 | | | | | | | | | | | | |
| 379 | 565 | 98 | | | | | | | | | | | | |
| 2,329 | 4,926 | 369 | 398 | 280 | 240 | 215 | 205 | 70 | 20 | 12 | 10 | **1,450** | 62% | 765 - 2,710 |
| 616 | 1,234 | 66 | | | | | | | | | | | | |
| 1,070 | 2,575 | 144 | | | | | | | | | | | | |
| 318 | 705 | 59 | | | | | | | | | | | | |
| 2,683 | 6,382 | 349 | 332 | 310 | 250 | 240 | 225 | 65 | 10 | 1 | 2 | **1,435** | 53% | 690 - 3,130 |
| 385 | 1,253 | 20 | 22 | 53 | 50 | 25 | 15 | 5 | 0 | 0 | 0 | **170** | 44% | 40 - 765 |
| 626 | 1,009 | 197 | | | | | | | | | | | | |
| 763 | 1,848 | 129 | 43 | 61 | 65 | 85 | 115 | 27 | 3 | 1 | 0 | **400** | 52% | 170 - 870 |
| 471 | 929 | 88 | | | | | | | | | | | | |
| 1,167 | 2,952 | 155 | 64 | 60 | 83 | 130 | 160 | 50 | 10 | 2 | 1 | **560** | 48% | 200 - 1,140 |
| 461 | 1,147 | 123 | | | | | | | | | | | | |
| 770 | 1,661 | 258 | | | | | | | | | | | | |
| 1,943 | 4,631 | 383 | 106 | 93 | 130 | 190 | 290 | 135 | 25 | 8 | 3 | **980** | 50% | 470 - 1,960 |
| 461 | 1,020 | 92 | | | | | | | | | | | | |
| 1,007 | 2,787 | 150 | 22 | 40 | 60 | 90 | 120 | 50 | 10 | 3 | 0 | **395** | 39% | 160 - 1,050 |
| 1,337 | 2,964 | 308 | | | | | | | | | | | | |
| 112 | 298 | 14 | | | | | | | | | | | | |
| 248 | 653 | 71 | | | | | | | | | | | | |
| 1,831 | 4,642 | 362 | 47 | 58 | 93 | 150 | 230 | 130 | 40 | 15 | 7 | **770** | 42% | 400 - 1,750 |
| 284 | 607 | 58 | | | | | | | | | | | | |
| 1,729 | 4,287 | 386 | 49 | 45 | 65 | 145 | 230 | 130 | 35 | 13 | 8 | **720** | 42% | 370 - 1,720 |
| 456 | 1,402 | 94 | 15 | 18 | 24 | 40 | 60 | 25 | 5 | 2 | 1 | **190** | 42% | 90 - 520 |
| 147 | 615 | 16 | 4 | 6 | 7 | 5 | 3 | 1 | 0 | 0 | 0 | **26** | 18% | 5 - 250 |
| 558 | 1,577 | 163 | | | | | | | | | | | | |
| 733 | 2,318 | 175 | 36 | 24 | 32 | 45 | 60 | 35 | 15 | 10 | 8 | **265** | 36% | 150 - 990 |

(9) Forecast point names based on USGS gage names. Stanislaus below Goodwin also known as inflow to New Melones, Tuolumne River below La Grange also known as inflow to Don Pedro, Merced River below Merced Falls also known as inflow to McClure.
(10) Coordinated Forecast by National Weather Service California-Nevada River Forecast Center and Department of Water Resources, State of California
* Unimpaired runoff in months prior to forecast date are based on measured flows

**FEBRUARY 1, 2015 FORECASTS**
**APRIL-JULY UNIMPAIRED RUNOFF**

| HYDROLOGIC REGION and Watershed | Apr-Jul Unimpaired Runoff in 1,000 Acre-Feet (1) HISTORICAL 50 Yr Avg (2) | Max of Record | Min of Record | FORECAST Apr-Jul Forecasts | Pct of Avg |
|---|---|---|---|---|---|
| **NORTH COAST** | | | | | |
| **Scott River** | | | | | |
| Scott River nr Ft Jones (3) | 172 | 398 | 22 | **61** | 35% |
| **Klamath River** | | | | | |
| Total inflow to Upper Klamath Lake (4) | 340 | 618 | 84 | **385** | 113% |
| **NORTH LAHONTAN** | | | | | |
| **Truckee River** | | | | | |
| Lake Tahoe to Farad accretions | 256 | 713 | 52 | **75** | 29% |
| Lake Tahoe Rise (assuming gates closed, ft) | 1.4 | 5.4 | 0.2 | **0.5** | 36% |
| **Carson River** | | | | | |
| West Fork Carson River at Woodfords | 53 | 135 | 12 | **21** | 40% |
| East Fork Carson River near Gardnerville | 186 | 407 | 43 | **95** | 51% |
| **Walker River** | | | | | |
| West Walker River below Little Walker, near Coleville | 155 | 330 | 35 | **70** | 45% |
| East Walker River near Bridgeport | 63 | 209 | 7 | **16** | 25% |
| **SOUTH LAHONTAN** | | | | | |
| **Owens River** | | | | | |
| Total tributary flow to Owens River (5) | 235 | 579 | 96 | **55** | 23% |

(1) See inside back cover for definition
(2) All 50 year averages are based on years 1961-2010 unless otherwise noted
(3) Forecast by National Weather Service California-Nevada River Forecast Center. 30 yr average (1981-2010)
(4) Forecast by U.S. Natural Resources Conservation Service and National Weather Service California-Nevada River Forecast Center, April through September forecast, 30 year average based on years 1981-2010.
(5) Forecast by Department of Water and Power, City of Los Angeles, average based on years 1961-2010
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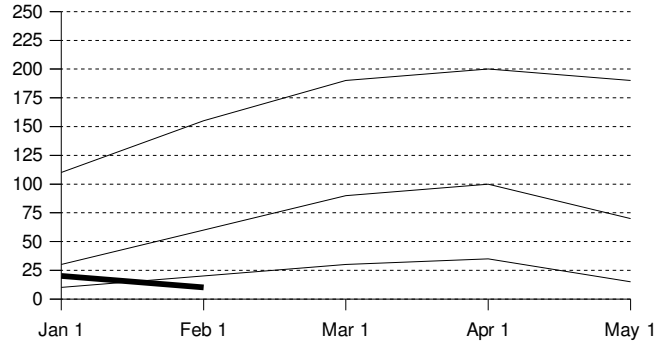
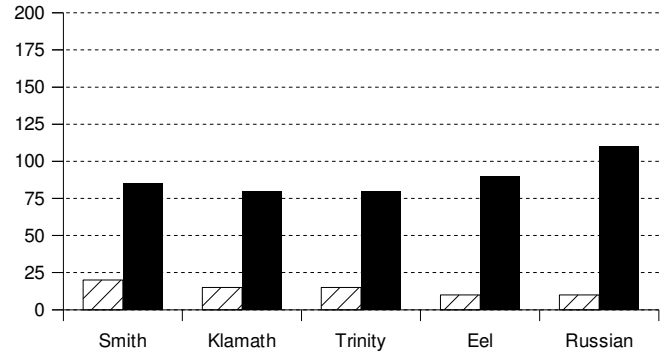
## Snowpack Accumulation

Water Content in % of April 1 Average



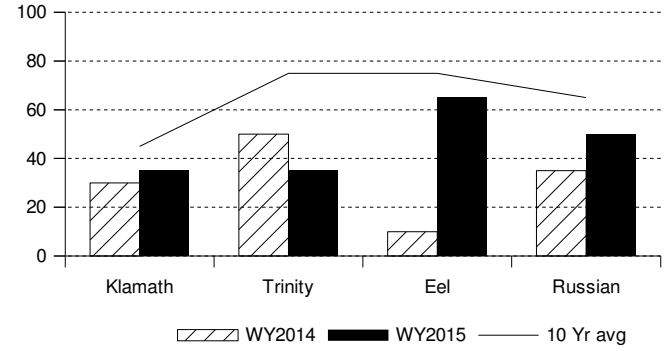

## Precipitation

October 1 to date in % of Average



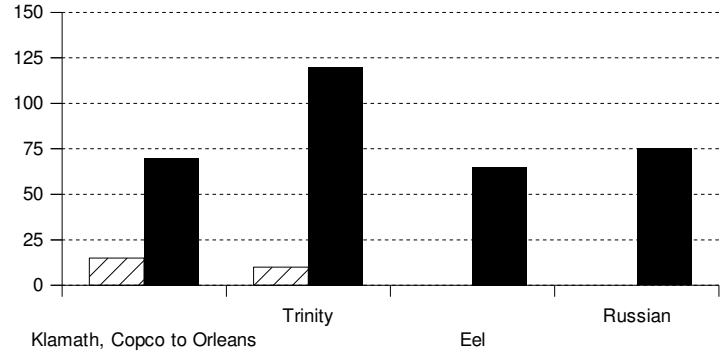

## Reservoir Storage

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 10 snow courses indicate an area wide snow water equivalent of 2.8 inch. This is 10 percent of the February 1 average and 10 percent of the seasonal (April 1) average. Last year at this time the pack was holding less than 1 inch of water.

***PRECIPITATION*** - Seasonal precipitation (October 1 through the end of last month) on this area was 90 percent of normal. Precipitation last month was about 20 percent of the monthly average. Seasonal precipitation at this time last year stood at 20 percent of normal.

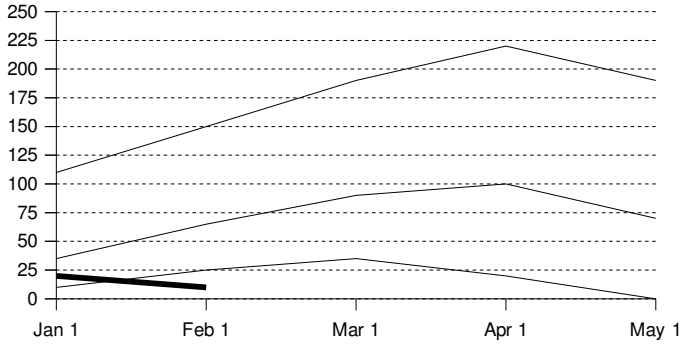
***RESERVOIR STORAGE***- First of the month storage in 6 reservoirs was 1.2 million acre-feet which is 55 percent of average. About 40 percent of available capacity was being used. Storage in these reservoirs at this time last year was 65 percent of average.

***RUNOFF*** -Seasonal runoff of streams draining the area totaled 3.7 million acre-feet which is 70 percent of the average for this period. Last year, runoff for the same period was 5 percent of average.

# SACRAMENTO RIVER REGION

## Snowpack Accumulation

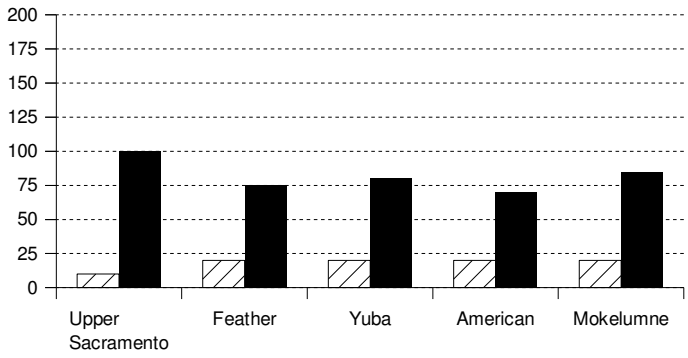
Water Content in % of April 1 Average




***SNOWPACK***- First of the month measurements made at 68 snow courses indicate an area wide snow water equivalent of 4.2 inch. This is 20 percent of the February 1 average and 10 percent of the seasonal (April 1) average. Last year at this time the pack was holding less than 1 inch of water.

## Precipitation

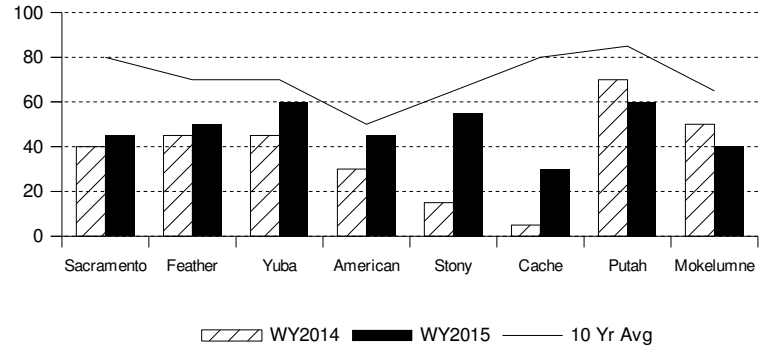
October 1 to date in % of Average




***PRECIPITATION*** - Seasonal precipitation (October 1 through the end of last month) on this area was 85 percent of normal. Precipitation last month was less than 5 percent of the monthly average. Seasonal precipitation at this time last year stood at 15 percent of normal.

## Reservoir Storage

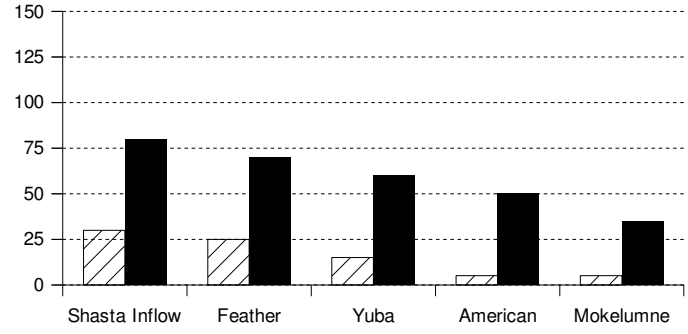
Contents of major reservoirs in % of capacity




***RESERVOIR STORAGE***- First of the month storage in 43 reservoirs was 7.9 million acre-feet which is 75 percent of average. About 50 percent of available capacity was being used. Storage in these reservoirs at this time last year was 65 percent of average.

## Runoff

October 1 to date in % of average



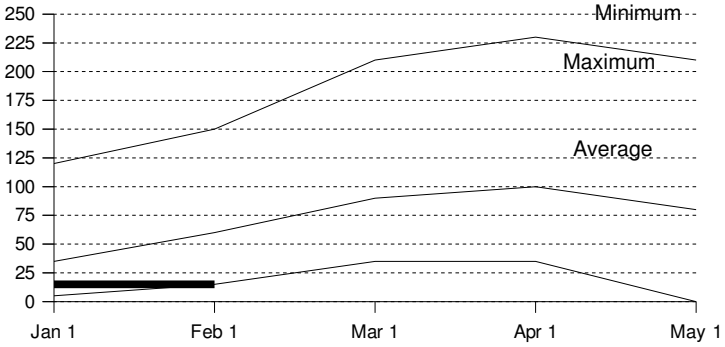

***RUNOFF*** - Seasonal runoff of streams draining the area totaled 4.3 million acre-feet which is 75 percent of average for this period. Last year, runoff for the same period was 25 percent of average.

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

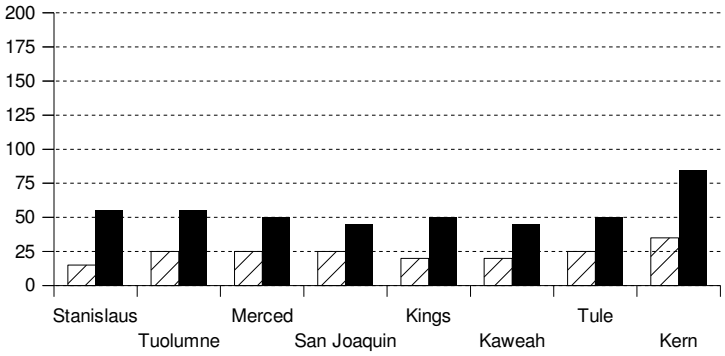
## Snowpack Accumulation

Water Content in % of April 1 Average



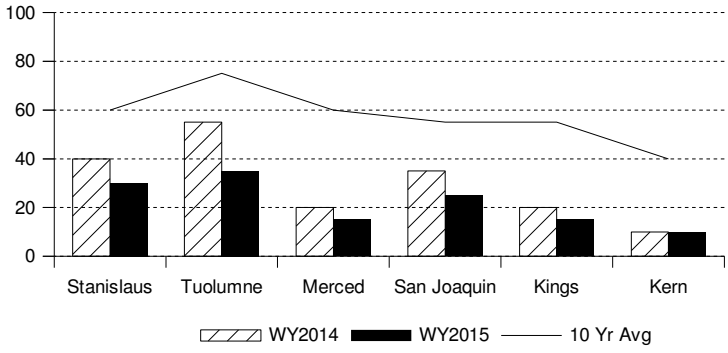

## Precipitation

October 1 to date in % of Average



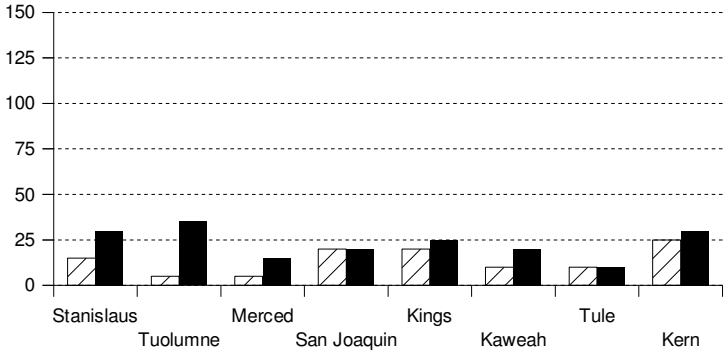

## Reservoir Storage

Contents of major reservoirs in % of capacity




## Runoff

October 1 to date in % of average




***SNOWPACK-*** First of the month measurements made at 62 **San Joaquin River Region** snow courses indicate an area wide snow water equivalent of 4.8 inches. This is 20 percent of the February 1 average and 15 percent of seasonal average. Last year at this time the pack was holding 2.3 inches of water. At the same time 39 **Tulare Lake Region** snow courses indicated a basin-wide snow water equivalent of 3.7 inches which is 25 percent of the average for February 1 and 15 percent of the se asonal average. Last year at this time the basin was holding 1.7 inches of water.

***PRECIPITATION*** - Seasonal precipitation (October 1 through the end of last month) on the **San Joaquin Region** was 60 percent of normal. Precipitation last month was less than 5 percent of the monthly average. Seasonal precipitation at this time last year stood at 20 percent of normal. Seasonal precipitation on the **Tulare Lake Region** was 65 percent of normal. Precipitation last month was about 10 percent of the monthly average. Seasonal precipitation at this time last year stood at 25 percent of normal.

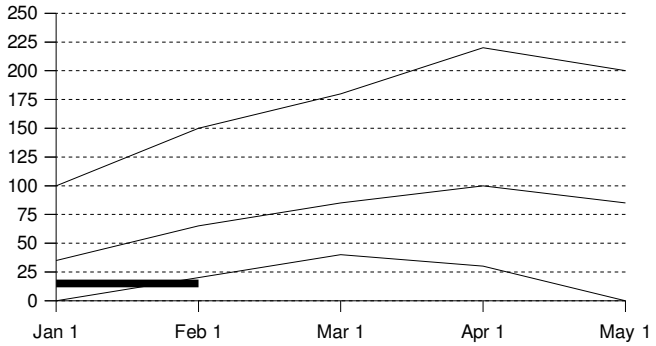
***RESERVOIR STORAGE***- First of the month storage in 34 **San Joaquin Region** reservoirs was 4.1 million acre-feet which is 60 percent of average. About 35 percent of available capacity was being used. Storage in these reservoirs at this time last year was 65 percent of average. First of the month storage in 6 **Tulare Lake Region** reservoirs was 276 thousand acre-feet which is 35 percent of average and about 15 percent of available capacity. Storage in these reservoirs at this time last year was 45 percent of average.

***RUNOFF***- Seasonal runoff of streams draining the **San Joaquin Region** totaled 305 thousand acre-feet which is 25 percent of average for this period. Last year, runoff for the same period was 10 percent of average. Seasonal runoff of streams draining the **Tulare Lake Basin** totaled 104 thousand acre-feet which is 25 percent of average for this period. Last year runoff for this same period was 20 percent of average. The **San Joaquin Region 60-20-20 Water Supply Index** is forecast to be 1.1 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.

# NORTH AND SOUTH LAHONTAN REGIONS

## Snowpack Accumulation

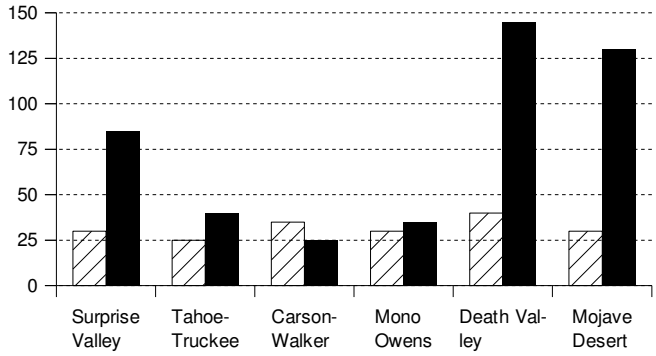
Water Content in % of April 1 Average




***SNOWPACK-*** First of the month measurements made at 12 **North Lahontan snow** courses indicate an area wide snow water equivalent of 3.1 inches. This is 15 percent of the February 1 average and 10 percent of seasonal (April 1) average. Last year at this time the pack was holding 2.8 inches of water. At the same time 17 **South Lahontan Region** snow courses indicated a basin-wide snow water equivalent of 3.0 inches which is 20 percent of the average for February 1 and 15 percent of the seasonal average. Last year at this time the basin was holding 3.9 inches of water.

## Precipitation

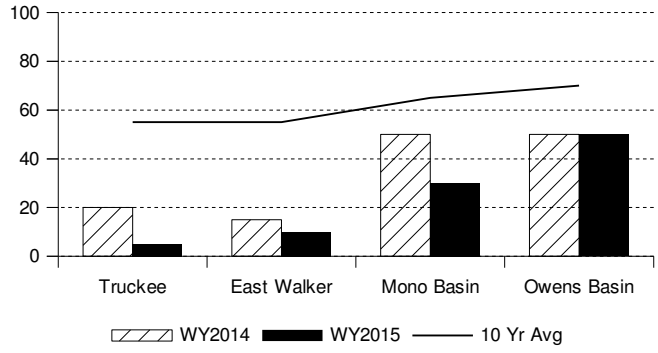
October 1 to date in % of Average




***PRECIPITATION*** - Seasonal precipitation (October 1 through the end of last month) on the **North Lahontan Region** was 50 percent of normal. Precipitation last month was less than 5 percent of the monthly average. Seasonal precipitation at this time last year stood at 30 percent of normal. Seasonal precipitation on the **South Lahontan Region** was 105 percent of normal. Precipitation last month was about 135 percent of the monthly average. Seasonal precipitation at this time last year stood at 35 percent of normal.

## Reservoir Storage

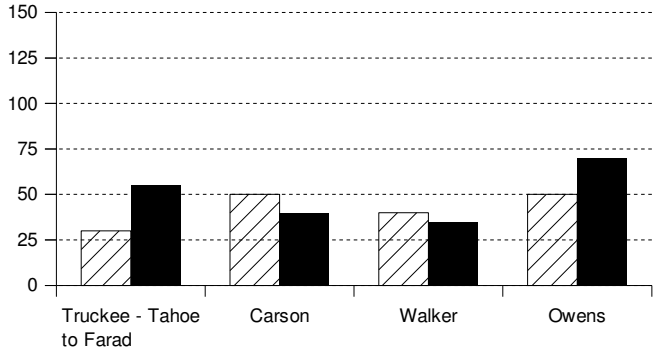
Contents of major reservoirs in % of capacity




***RESERVOIR STORAGE***- First of the month storage in 5 **North Lahontan** reservoirs was 72 thousand acre-feet which is 15 percent of average. About 5 percent of available capacity was being used. Storage in these reservoirs at this time last year was 40 percent of average. Lake Tahoe was 0.? feet above its natural rim on February 1.
First of the month storage in 8 **South Lahontan** reservoirs was 222 thousand acre-feet which is 85 percent of average and about 55 percent of available capacity. Storage in these reservoirs at this time last year was 90 percent of average.

## Runoff

October 1 to date in % of average

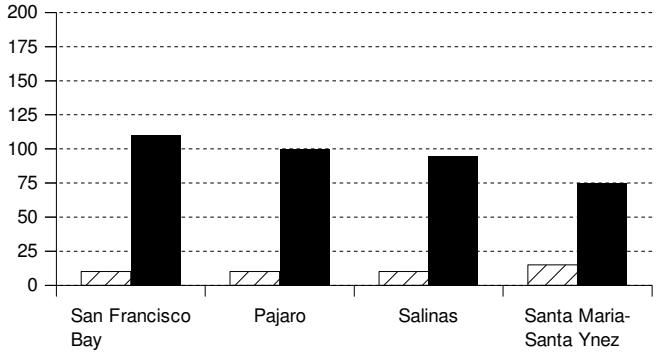



***RUNOFF***- Seasonal runoff of streams draining the **North Lahontan Region** totaled 67 thousand acre-feet which is 45 percent of average for this period. Last year, runoff for the same period was 20 percent of average.
Seasonal runoff of the Owens River in the **South Lahontan Region** totaled 30 thousand acre-feet which is 70 percent of average for this period. Last year runoff for this same period was 50 percent of average.

# SAN FRANCISCO BAY AND CENTRAL COAST REGIONS

## Precipitation

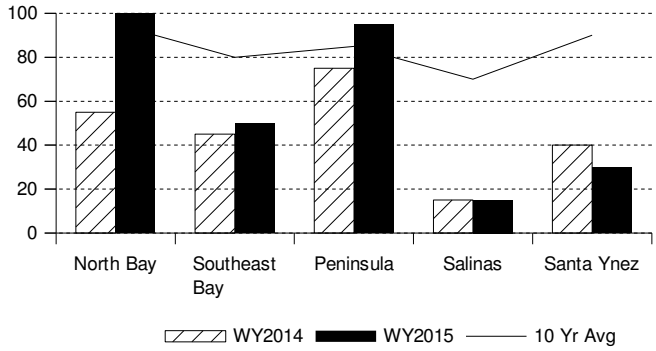
October 1 to date in % of Average




***PRECIPITATION*** - Seasonal precipitation (October 1 through the end of last month) on the **San Francisco Bay Region** was 110 percent of normal. Precipitation last month was less than 5 percent of the monthly average. Seasonal precipitation at this time last year stood at 10 percent of normal.
Seasonal precipitation on the **Central Coast Region** was 90 percent of normal. Precipitation last month was about 10 percent of the monthly average. Seasonal precipitation at this time last year stood at 10 percent of normal.

## Reservoir Storage

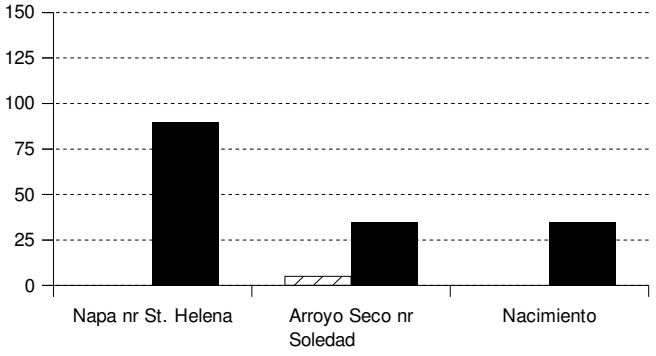
Contents of major reservoirs in % of capacity




***RESERVOIR STORAGE***- First of the month storage in 17 **San Francisco Bay Region** reservoirs was 438 thousand acre-feet which is 95 percent of average. About 60 percent of available capacity was being used. Storage in these reservoirs at this time last year was 75 percent of average.
First of the month storage in 6 **Central Coast Region** reservoirs was 179 thousand acre-feet which is 30 percent of average and about 20 percent of available capacity. Storage in these reservoirs at this time last year was 35 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 31 thousand acre-feet which is 90 percent of average for this period. Last year, runoff for the same period was 0 percent of average.
Seasonal runoff of streams draining the **Central Coast Region** totaled 45 thousand acre-feet which is less than 35 percent of average for this period. Last year runoff for this same period was less than 5 percent of average.

# SOUTH COAST REGION

***PRECIPITATION*** - October through January (seasonal) precipitation on the **South Coast Region** was 80 percent of normal. January precipitation was 30 percent of the monthly average. Seasonal precipitation at this time last year was 25 percent of normal. Seasonal precipitation on the **Colorado River-Desert Region** was 60 percent of normal. Last year seasonal precipitation on the **Colorado River-Desert Region** was 50 percent of normal. Precipitation in January was 75 percent of average.

***RESERVOIR STORAGE*** - February 1 storage in 29 major **South Coast Region** reservoirs was 912 thousand acre-feet or 65 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. On February 1 combined storage in Lakes Powell, Mead, Mohave and Havasu was about 24.2 million acre-feet or about 60 percent of average. About 45 percent of available capacity was in use. Last year at this time, these reservoirs were storing 60 percent of average.

***RUNOFF*** - Seasonal runoff from selected **South Coast Region** streams is 7 thousand acre feet which is 45 percent of average.

# COLORADO RIVER

The April -July inflow to Lake Powell is forecast to be 5.2 million acre-feet, which is 73 percent of average. The February 1 snowpack in the Colorado River basin above Lake Powell was 85 percent of average, lowest in the Lower San Juan at 55 percent and highest in the Upper Green at 115 percent.

**MAJOR WATER DISTRIBUTION PROJECTS**

**RESERVOIR STORAGE**

(AVERAGES BASED ON 1951-2000 OR PERIOD RECORD)

| RESERVOIR | CAPACITY 1,000 AF | AVERAGE STORAGE 1,000 AF | STORAGE AT END OF January 2014 1,000 AF | 2015 1,000 AF | PERCENT AVERAGE | PERCENT CAPACITY |
|---|---|---|---|---|---|---|
| *STATE WATER PROJECT* | | | | | | |
| Lake Oroville | 3,538 | 2,317 | 1,262 | 1,444 | 62% | 41% |
| San Luis Reservoir (SWP) | 1,062 | 858 | 282 | 756 | 88% | 71% |
| Lake Del Valle | 77 | 31 | 30 | 35 | 111% | 45% |
| Lake Silverwood | 78 | 66 | 71 | 71 | 108% | 91% |
| Pyramid Lake | 180 | 163 | 168 | 168 | 103% | 93% |
| Castaic Lake | 325 | 270 | 279 | 114 | 42% | 35% |
| Perris Lake | 131 | 107 | 72 | 47 | 44% | 35% |
| *CENTRAL VALLEY PROJECT* | | | | | | |
| Trinity Lake | 2,448 | 1,730 | 1,162 | 874 | 50% | 36% |
| Lake Shasta | 4,552 | 3,072 | 1,656 | 2,001 | 65% | 44% |
| Whiskeytown Lake | 241 | 205 | 205 | 205 | 100% | 85% |
| Folsom Lake | 977 | 508 | 164 | 448 | 88% | 46% |
| New Melones Reservoir | 2,400 | 1,423 | 1,046 | 563 | 40% | 23% |
| Millerton Lake | 520 | 333 | 196 | 186 | 56% | 36% |
| San Luis Reservoir (CVP) | 971 | 743 | 333 | 347 | 47% | 36% |
| *COLORADO RIVER PROJECT* | | | | | | |
| Lake Mead | 26,159 | 19,607 | 12,531 | 10,729 | 55% | 41% |
| Lake Powell | 24,322 | 17,588 | 9,828 | 11,147 | 63% | 46% |
| Lake Mohave | 1,810 | 1,677 | 1,643 | 1,698 | 101% | 94% |
| Lake Havasu | 648 | 550 | 547 | 584 | 106% | 90% |
| *EAST BAY MUNICIPAL UTILITY DISTRICT* | | | | | | |
| Pardee Res | 210 | 178 | 159 | 166 | 93% | 79% |
| Camanche Reservoir | 417 | 248 | 214 | 132 | 53% | 32% |
| East Bay (4 res.) | 159 | 125 | 103 | 111 | 89% | 70% |
| *CITY AND COUNTY OF SAN FRANCISCO* | | | | | | |
| Hetch-Hetchy Reservoir | 360 | 172 | 191 | 233 | 135% | 65% |
| Cherry Lake | 268 | 144 | 204 | 168 | 117% | 63% |
| Lake Eleanor | 29 | 10 | 8 | 10 | 95% | 33% |
| South Bay/Peninsula (4 res.) | 227 | 159 | 117 | 134 | 84% | 59% |
| *CITY OF LOS ANGELES (D.W.P.)* | | | | | | |
| Lake Crowley | 183 | 123 | 96 | 91 | 74% | 50% |
| Grant Lake | 48 | 28 | 30 | 17 | 59% | 35% |
| Other Aqueduct Storage (6 res.) | 83 | 75 | 55 | 59 | 79% | 71% |

# TELEMETERED SNOW WATER EQUIVALENTS

February 1, 2015
(AVERAGES BASED ON PERIOD RECORD)

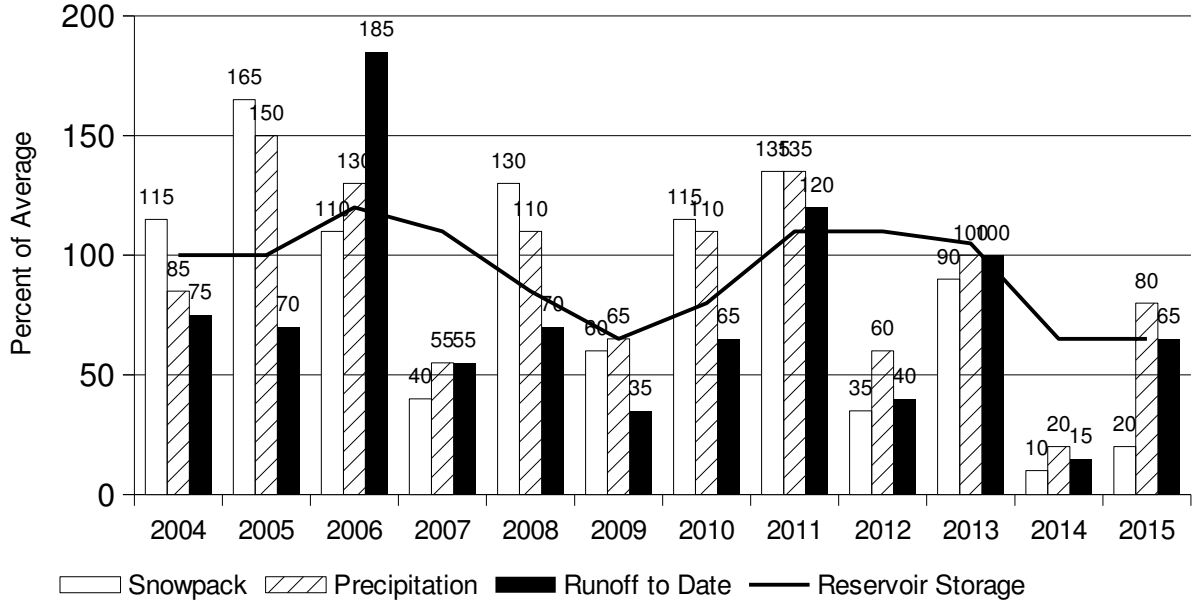
| BASIN NAME / STATION NAME | ELEV | APRIL 1 AVERAGE | INCHES OF WATER EQUIVALENT Feb 1 | PERCENT OF AVERAGE | 24 HRS PREVIOUS | 1 WEEK PREVIOUS |
|---|---|---|---|---|---|---|
| **TRINITY RIVER** | | | | | | |
| Peterson Flat | 7150’ | 29.2 | 3.1 | 10.7 | 3.1 | 3.4 |
| Red Rock Mountain | 6700’ | 39.6 | 5.1 | 13.0 | 4.8 | 5.0 |
| Bonanza King | 6450’ | 40.5 | 1.7 | 4.1 | 1.9 | 3.0 |
| Shimmy Lake | 6400’ | 40.3 | 8.3 | 20.5 | 8.8 | 9.7 |
| Middle Boulder 3 | 6200’ | 28.3 | 1.1 | 4.0 | 1.6 | 2.5 |
| Highland Lakes | 6030’ | 29.9 | 1.6 | 5.2 | 1.9 | 3.7 |
| Scott Mountain | 5900’ | 16.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Mumbo Basin | 5650’ | 22.4 | 0.8 | 3.8 | 1.0 | 2.5 |
| Big Flat | 5100’ | 15.8 | 0.4 | 2.3 | 0.0 | 0.4 |
| Crowder Flat | 5100’ | — | 0.0 | — | 0.0 | 0.0 |
| **SACRAMENTO RIVER** | | | | | | |
| Cedar Pass | 7100’ | 18.1 | 4.6 | 25.4 | 4.4 | 4.9 |
| Blacks Mountain | 7050’ | 12.7 | — | — | — | — |
| Sand Flat | 6750’ | 42.4 | 11.0 | 26.0 | 11.3 | 10.8 |
| Medicine Lake | 6700’ | 32.6 | 8.8 | 26.9 | 8.8 | 9.2 |
| Adin Mountain | 6200’ | 13.6 | 0.8 | 5.9 | 0.9 | 2.0 |
| Snow Mountain | 5950’ | 27.0 | 4.9 | 18.2 | 4.7 | 4.6 |
| Slate Creek | 5700’ | 29.0 | 2.2 | 7.4 | 2.2 | 3.7 |
| Stouts Meadow | 5400’ | 36.0 | 4.1 | 11.3 | 4.6 | 4.8 |
| **FEATHER RIVER** | | | | | | |
| Lower Lassen Peak | 8250’ | — | — | — | — | — |
| Kettle Rock | 7300’ | 25.5 | 5.5 | 21.6 | 5.5 | 5.8 |
| Grizzly Ridge | 6900’ | 29.7 | 3.7 | 12.5 | 4.1 | 4.7 |
| Pilot Peak | 6800’ | 52.6 | 3.4 | 6.5 | 3.9 | 5.0 |
| Gold Lake | 6750’ | 36.5 | 8.9 | 24.3 | 8.9 | 8.8 |
| Humbug | 6500’ | 28.0 | 5.5 | 19.7 | 5.6 | 6.2 |
| Harkness Flat | 6200’ | 28.5 | 6.3 | 22.2 | 6.6 | 6.0 |
| Rattlesnake | 6100’ | 14.0 | 1.6 | 11.1 | 1.8 | 2.8 |
| Bucks Lake | 5750’ | 44.7 | 2.9 | 6.4 | 2.9 | 4.3 |
| Four Trees | 5150’ | 20.0 | 0.0 | 0.0 | 0.0 | 0.4 |
| **EEL RIVER** | | | | | | |
| Hull Mountain | 6461’ | — | 0.0 | — | 0.0 | 0.0 |
| Noel Spring | 5100’ | — | 0.0 | — | 0.0 | 0.0 |
| **YUBA & AMERICAN RIVERS** | | | | | | |
| Schneiders | 8750’ | 34.5 | 11.3 | 32.7 | 11.3 | 11.2 |
| Lake Lois | 8600’ | 39.5 | 13.8 | 34.8 | 14.7 | 12.0 |
| Carson Pass | 8353’ | — | 7.7 | — | 7.6 | 7.4 |
| Caples Lake | 8000’ | 30.9 | 5.6 | 18.3 | 5.8 | 6.0 |
| Alpha | 7600’ | 35.9 | 1.7 | 4.7 | 1.5 | 2.3 |
| Forni Ridge | 7600’ | 37.0 | 2.4 | 6.5 | 2.5 | 3.7 |
| Meadow Lake | 7200’ | 55.5 | 10.0 | 18.0 | 10.3 | 10.7 |
| Silver Lake | 7100’ | 22.7 | 3.0 | 13.2 | 2.8 | 2.3 |
| Central Sierra Snow Lab | 6900’ | 33.6 | 4.4 | 13.1 | 4.9 | 5.6 |
| Van Vleck | 6700’ | 35.9 | 5.3 | 14.7 | 5.3 | 5.3 |
| Huysink | 6600’ | 42.6 | 2.2 | 5.1 | 2.2 | 2.5 |
| Robinson Cow Camp | 6480’ | — | — | — | — | — |
| Robbs Saddle | 5900’ | 21.4 | 1.0 | 4.7 | 1.0 | 1.6 |
| Greek Store | 5600’ | 21.0 | 2.2 | 10.3 | 2.3 | 3.0 |
| Blue Canyon | 5280’ | 9.0 | 0.0 | 0.0 | 0.1 | 0.8 |
| Robbs Powerhouse | 5150’ | 5.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| **MOKELUMNE & STANISLAUS RIVERS** | | | | | | |
| Deadman Creek | 9250’ | 37.2 | 5.7 | 15.3 | 5.7 | 5.0 |
| Highland Meadow | 8700’ | 47.9 | 5.3 | 11.0 | 5.3 | 5.6 |
| Gianelli Meadow | 8400’ | 55.5 | 9.8 | 17.7 | 9.8 | 10.1 |
| Lower Relief Valley | 8100’ | 41.2 | 6.3 | 15.4 | 6.8 | 6.3 |
| Blue Lakes | 8000’ | 33.1 | 6.3 | 19.0 | 6.2 | 6.0 |
| Stanislaus Meadow | 7750’ | 47.5 | 8.9 | 18.7 | 8.8 | 8.8 |
| Bloods Creek | 7200’ | 35.5 | 4.0 | 11.2 | 4.0 | 3.8 |
| Black Springs | 6500’ | 32.0 | 1.6 | 4.9 | 1.6 | 2.2 |
| **TUOLUMNE & MERCED RIVERS** | | | | | | |
| Dana Meadows | 9800’ | 27.7 | 5.3 | 19.1 | 5.4 | 5.1 |
| Slide Canyon | 9200’ | 41.1 | 11.3 | 27.5 | 11.5 | 11.2 |
| Tuolumne Meadows | 8600’ | 22.6 | 2.8 | 12.2 | 2.8 | 2.3 |
| Horse Meadow | 8400’ | 48.6 | 8.1 | 16.7 | 8.3 | — |
| Ostrander Lake | 8200’ | 34.8 | 4.2 | 12.0 | 4.4 | 4.0 |
| Lake Tenaya | 8150’ | 33.1 | — | — | — | — |
| White Wolf | 7900’ | — | — | — | — | — |
| Paradise Meadow | 7650’ | 41.3 | 1.4 | 3.3 | 1.3 | 1.3 |
| Gin Flat | 7050’ | 34.2 | 1.4 | 4.2 | 1.2 | 1.7 |
| Lower Kibbie Ridge | 6700’ | 27.4 | 0.4 | 1.4 | 0.4 | 0.4 |

| | | | | | | |
|---|---|---|---|---|---|---|
| **SAN JOAQUIN RIVER** | | | | | | |
| Volcanic Knob | 10050’ | 30.1 | 4.9 | 16.3 | 4.9 | 4.8 |
| Agnew Pass | 9450’ | 32.3 | 6.1 | 18.9 | 5.8 | 5.7 |
| Kaiser Point | 9200’ | 37.8 | 5.5 | 14.6 | 5.5 | 5.5 |
| Green Mountain | 7900’ | 30.8 | 2.4 | 7.8 | 2.5 | 2.2 |
| Tamarack Summit | 7550’ | 30.5 | 2.8 | 9.0 | 2.9 | 2.9 |
| Chilkoot Meadow | 7150’ | 38.0 | 3.0 | 7.9 | 2.9 | 3.0 |
| Huntington Lake | 7000’ | 20.1 | 3.5 | 17.3 | 3.2 | 3.4 |
| Graveyard Meadow | 6900’ | 18.8 | 1.4 | 7.7 | 1.6 | 2.2 |
| Poison Ridge | 6900’ | 28.9 | 2.9 | 10.0 | 2.9 | 3.0 |
| **KINGS RIVER** | | | | | | |
| Bishop Pass | 11200’ | 34.0 | 3.0 | 8.8 | 3.0 | 3.0 |
| Charlotte Lake | 10400’ | 27.5 | — | — | — | — |
| Blackcap Basin | 10300’ | 34.3 | 16.4 | 47.7 | 16.6 | 16.6 |
| Mitchell Meadow | 9900’ | 32.9 | 7.9 | 24.1 | 7.9 | 7.8 |
| Upper Burnt Corral | 9700’ | 34.6 | 7.5 | 21.7 | 7.9 | 7.2 |
| West Woodchuck Meadow | 9100’ | 32.8 | 1.1 | 3.3 | 1.1 | 1.6 |
| Big Meadows | 7600’ | 25.9 | 2.3 | 8.8 | 2.5 | 3.4 |
| **KAWEAH & TULE RIVERS** | | | | | | |
| Farewell Gap | 9500’ | 34.5 | — | — | — | — |
| Quaking Aspen | 7200’ | 21.0 | 2.8 | 13.1 | 2.9 | 3.0 |
| Giant Forest | 6650’ | 10.0 | — | — | — | — |
| **KERN RIVER** | | | | | | |
| Upper Tyndall Creek | 11400’ | 27.7 | 2.7 | 9.7 | 2.6 | 2.6 |
| Crabtree Meadow | 10700’ | 19.8 | — | — | — | — |
| Chagoopa Plateau | 10300’ | 21.8 | 3.3 | 15.3 | 3.5 | 3.6 |
| Pascoes | 9150’ | 24.9 | 5.0 | 20.2 | 4.9 | 3.8 |
| Wet Meadows | 8950’ | 30.3 | 2.5 | 8.2 | 2.5 | 2.7 |
| Tunnel Guard Station | 8900’ | 15.6 | 0.0 | 0.0 | 0.1 | 1.2 |
| Casa Vieja Meadows | 8300’ | 20.9 | 3.9 | 18.7 | 3.9 | 3.4 |
| **SURPRISE VALLEY AREA** | | | | | | |
| Dismal Swamp | 7050’ | 29.2 | 12.2 | 41.8 | 12.3 | 11.9 |
| **TRUCKEE RIVER** | | | | | | |
| Big Meadows | 8700’ | 25.7 | 4.6 | 17.9 | 4.7 | 4.7 |
| Independence Lake | 8450’ | 41.4 | 12.0 | 29.0 | 12.0 | 11.9 |
| Squaw Valley | 8200’ | 46.5 | 11.3 | 24.3 | 11.3 | 11.0 |
| Independence Camp | 7000’ | 21.8 | 0.0 | 0.0 | 0.0 | 0.3 |
| Independence Creek | 6500’ | 12.7 | 0.0 | 0.0 | 0.0 | 0.6 |
| Truckee 2 | 6400’ | 14.3 | 2.1 | 14.7 | 2.2 | 2.5 |
| **LAKE TAHOE BASIN** | | | | | | |
| Mount Rose Ski Area | 8900’ | 38.5 | 8.6 | 22.3 | 8.5 | 8.5 |
| Heavenly Valley | 8800’ | 28.1 | 4.0 | 14.2 | 4.2 | 3.8 |
| Hagans Meadow | 8000’ | 16.5 | 1.1 | 6.7 | 1.6 | 2.2 |
| Marlette Lake | 8000’ | 21.1 | 4.6 | 21.8 | 4.9 | 4.4 |
| Echo Peak 5 | 7800’ | 39.5 | 7.3 | 18.5 | 7.2 | 7.3 |
| Tahoe City Cross | 6750’ | 16.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fallen Leaf Lake | 6250’ | 7.0 | 0.0 | 0.0 | 0.0 | 0.1 |
| **CARSON RIVER** | | | | | | |
| Ebbetts Pass | 8700’ | 38.8 | 9.1 | 23.5 | 9.1 | 7.7 |
| Horse Meadow | 8557’ | — | 3.9 | — | 3.8 | 3.8 |
| Monitor Pass | 8350’ | — | 2.5 | — | 2.5 | 2.3 |
| Burnside Lake | 8129’ | — | 6.0 | — | 5.9 | 5.7 |
| Forestdale Creek | 8017’ | — | 7.4 | — | 7.4 | 7.1 |
| Poison Flat | 7900’ | 16.2 | 3.4 | 21.0 | 3.4 | 2.6 |
| Spratt Creek | 6150’ | 4.5 | 0.2 | 4.4 | 0.3 | 0.3 |
| **WALKER RIVER** | | | | | | |
| Leavitt Lake | 9600’ | — | 16.7 | — | 16.7 | 16.6 |
| Summit Meadow | 9313’ | — | 4.6 | — | 4.6 | 4.4 |
| Virginia Lakes | 9300’ | 20.3 | 2.2 | 10.8 | 2.1 | 2.0 |
| Lobdell Lake | 9200’ | 17.3 | 2.8 | 16.2 | 2.9 | 2.5 |
| Sonora Pass Bridge | 8750’ | 26.0 | 3.8 | 14.6 | 3.9 | 3.9 |
| Leavitt Meadows | 7200’ | 8.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| **OWENS RIVER/MONO LAKE** | | | | | | |
| Gem Pass | 10750’ | 31.7 | 3.6 | 11.2 | 3.6 | 3.2 |
| Sawmill | 10200’ | 19.4 | 2.1 | 10.8 | 2.1 | 2.2 |
| Cottonwood Lakes | 10150’ | 11.6 | 4.7 | 40.5 | 4.7 | 4.6 |
| Big Pine Creek | 9800’ | 17.9 | 1.2 | 6.6 | 1.2 | 1.2 |
| Rock Creek Lakes | 9700’ | 14.0 | 2.4 | 17.1 | 2.6 | 3.1 |
| South Lake | 9600’ | 16.0 | 2.7 | 17.0 | 2.7 | 2.7 |
| Mammoth Pass | 9300’ | 42.4 | 4.4 | 10.4 | 4.6 | 4.4 |

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% |

**February 1 Statewide Conditions**




## SNOWLINES

**The 83nd Western Snow Conference (WSC)** annual meeting will be held in Grass Valley, California April 20-23. The short course on Monday, April 20 will cover LIDAR and snow science This meeting will be hosted by the South Continental Region. Don't miss out on an opportunity to attend this meeting of the premier organization devoted to the study of snow and runoff practically in your own backyard. Further information is at http://www.westernsnowconference.org/ or contact Frank Gehrke 916-574-2635

**Depicted** on this month's cover is a photo of the new cabin at Crabtree Meadows in Sequioa Kings National Park.

**Pat Armstrong** , one of the Department's longest serving snow surveyors has a written a book chronicling his adventures over many years making manual snow survey measurements in the Southern Sierra and includes many reminiscences from Murt Stewart and others who started making these surveys as long ago as 1948. The book is available for order on line at http://bookstore.abbottpress.com/Products/SKU-000693689/The-Log-of-a-Snow-Survey.aspx.