# SUMMARY OF WATER CONDITIONS
## May 1, 2005

Continued stormy weather during April, while not materially increasing the snow water content compared to April 1, retarded melting below that expected during the month for northern and central Sierra. Anticipated streamflow peaks are late May to early June for most streams.

***Forecasts*** of April through July runoff are 120 percent of average overall, ranging a little below normal in the Trinity and the northern Shasta Lake tributaries to 140 percent in the southern Sierra. Water year forecasts are somewhat less at 100 percent of average statewide.

***Snowpack*** water content dropped only slightly in the northern and central Sierra during April and now stands at about 150 percent of average for May 1 overall or 120 percent of average for April 1. Last year the snowpack on May 1 was only 50 percent of average.

***Precipitation*** from October 1 through April 30 was about 135 percent of average compared to 90 percent one year ago. Precipitation during April was 100 percent of average statewide highest on the North Coast at 150 percent and lowest in the South Lahontan and Colorado River Desert Region for the month. Last year precipitation was 90 percent of average.

***Runoff*** so far this year has been about 80 percent of average compared to 90 percent at this time last year. Runoff during April was average for the month. Estimated runoff of the 8 major rivers of the Sacramento and San Joaquin River regions was 3.19 million acre-feet during April. The May estimate of the Sacramento River Index at the 90% exceedence level is 14.8 MAF and the May San Joaquin 60-20-20 Index at the 75% exceedence level is 4.2.

***Reservoir storage*** gained about 1.5 million acre-feet during the month, to end at 105 percent of average for the date. This was slightly more than the normal gain of about 1.4 million acre-feet expected in April. Last year at this time, reservoir storage stood at 100 percent.

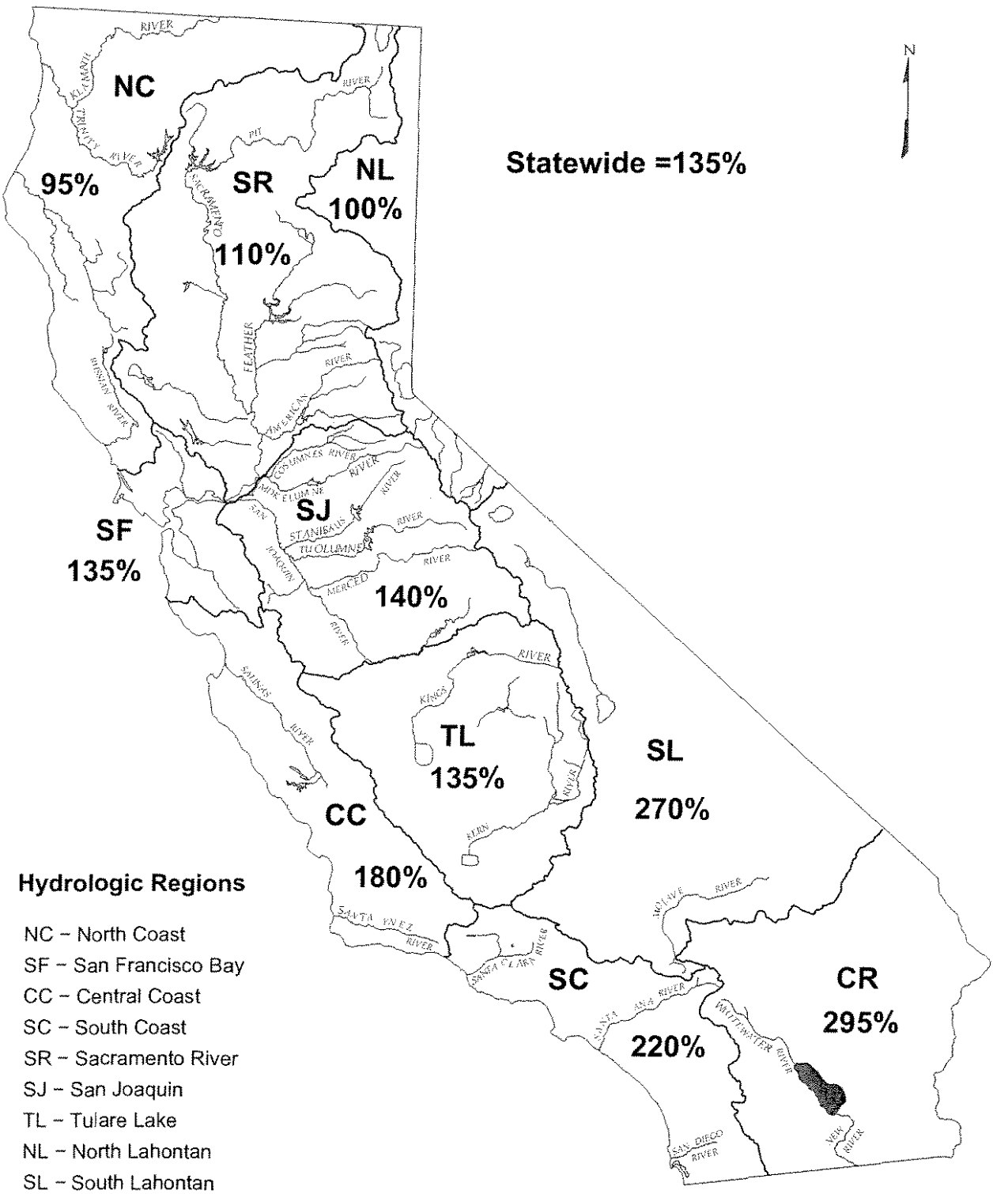
## SUMMARY OF WATER CONDITIONS
## IN PERCENT OF AVERAGE

| HYDROLOGIC REGION | PRECIPITATION OCTOBER 1 TO DATE | MAY 1 SNOW WATER CONTENT | MAY 1 RESERVOIR STORAGE | RUNOFF OCTOBER 1 TO DATE | APR-JULY RUNOFF FORECAST | WATER YEAR RUNOFF FORECAST |
|---|---|---|---|---|---|---|
| NORTH COAST | 95 | 120 | 100 | 70 | 95 | 90 |
| SAN FRANCISCO BAY | 135 | -- | 105 | 85 | -- | -- |
| CENTRAL COAST | 180 | -- | 125 | 195 | -- | -- |
| SOUTH COAST | 220 | -- | 115 | 280 | -- | -- |
| SACRAMENTO RIVER | 110 | 130 | 105 | 75 | 100 | 80 |
| SAN JOAQUIN RIVER | 140 | 180 | 110 | 125 | 140 | 135 |
| TULARE LAKE | 135 | 175 | 110 | 110 | 135 | 130 |
| NORTH LAHONTAN | 100 | 125 | 45 | 80 | 120 | 105 |
| SOUTH LAHONTAN | 270 | 170 | 90 | 75 | 135 | 125 |
| COLORADO RIVER-DESERT | 295 | -- | -- | -- | -- | -- |
| **STATEWIDE** | 135 | 150 | 105 | 80 | 120 | 100 |

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

IN PERCENT OF AVERAGE TO DATE

October 1, 2004 through April 30, 2005

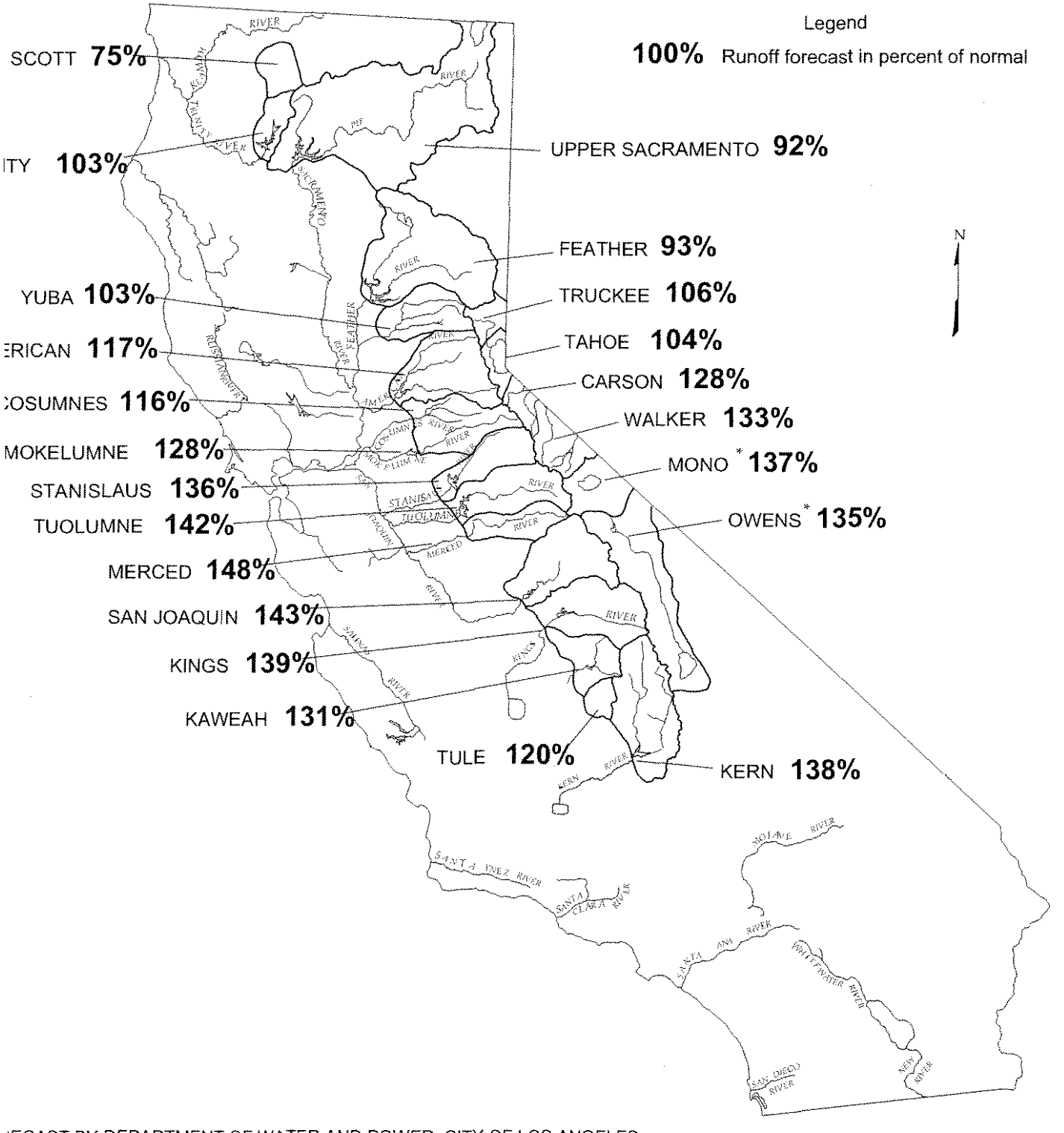



### Hydrologic Regions

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
## May 1, 2005




ECAST BY DEPARTMENT OF WATER AND POWER, CITY OF LOS ANGELES

## MAY 1, 2005 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) |
|---|---|---|---|---|---|---|
| **SACRAMENTO RIVER** | | | | | | |
| **Upper Sacramento River** | | | | | | |
| Sacramento River at Delta above Shasta Lake (3) | 299 | 711 | 39 | 310 | 104% | |
| McCloud River above Shasta Lake | 400 | 850 | 185 | 410 | 103% | |
| Pit River near Montgomery Creek + Squaw Creek | 1,090 | 2,098 | 480 | 910 | 83% | |
| Total Inflow to Shasta Lake | 1,849 | 3,525 | 726 | **1,710** | 92% | 1,490 - 2,010 |
| **Sacramento River above Bend Bridge, near Red Bluff** | 2,521 | 5,075 | 943 | **2,320** | 92% | 2,020 - 2,800 |
| **Feather River** | | | | | | |
| Feather River at Lake Almanor near Prattville (3) | 333 | 675 | 120 | 300 | 90% | |
| North Fork at Pulga (3) | 1,028 | 2,416 | 243 | 950 | 92% | |
| Middle Fork near Clio (4) | 86 | 518 | 4 | 80 | 93% | |
| South Fork at Ponderosa Dam (3) | 110 | 267 | 13 | 105 | 95% | |
| Feather River at Oroville | 1,870 | 4,676 | 392 | **1,730** | 93% | 1,510 - 2,050 |
| **Yuba River** | | | | | | |
| North Yuba below Goodyears Bar (3) | 286 | 647 | 51 | 290 | 101% | |
| Inflow to Jackson Mdws and Bowman Reservoirs (3) | 112 | 236 | 25 | 110 | 98% | |
| South Yuba at Langs Crossing (3) | 233 | 481 | 57 | 240 | 103% | |
| Yuba River near Smartville plus Deer Creek | 1,044 | 2,424 | 200 | **1,080** | 103% | 970 - 1,240 |
| **American River** | | | | | | |
| North Fork at North Fork Dam (3) | 262 | 716 | 43 | 290 | 111% | |
| Middle Fork near Auburn (3) | 522 | 1,406 | 100 | 610 | 117% | |
| Silver Creek Below Camino Diversion Dam (3) | 173 | 386 | 37 | 210 | 121% | |
| American River below Folsom Lake | 1,282 | 3,074 | 229 | **1,500** | 117% | 1,360 - 1,690 |
| **SAN JOAQUIN RIVER** | | | | | | |
| **Cosumnes River at Michigan Bar** | 130 | 363 | 8 | **150** | 116% | 120 - 180 |
| **Mokelumne River** | | | | | | |
| North Fork near West Point (5) | 437 | 829 | 104 | 540 | 124% | |
| Total Inflow to Pardee Reservoir | 469 | 1,065 | 102 | **600** | 128% | 560 - 670 |
| **Stanislaus River** | | | | | | |
| Middle Fork below Beardsley Dam (3) | 334 | 702 | 64 | 460 | 138% | |
| North Fork Inflow to McKays Point Dam (3) | 224 | 503 | 34 | 310 | 138% | |
| Stanislaus River below Goodwin Reservoir (7) | 716 | 1,710 | 116 | **970** | 136% | 880 - 1,070 |
| **Tuolumne River** | | | | | | |
| Cherry Creek & Eleanor Creek near Hetch Hetchy (3) | 322 | 727 | 97 | 450 | 140% | |
| Tuolumme River near Hetch Hetchy (3) | 606 | 1,392 | 153 | 870 | 144% | |
| Tuolumne River below La Grange Reservoir (7) | 1,230 | 2,682 | 301 | **1,750** | 142% | 1,660 - 1,910 |
| **Merced River** | | | | | | |
| Merced River at Pohono Bridge (3) | 362 | 888 | 80 | 540 | 149% | |
| Merced River below Merced Falls (7) | 633 | 1,587 | 123 | **940** | 148% | 880 - 1,020 |
| **San Joaquin River** | | | | | | |
| San Joaquin River at Mammoth Pool (6) | 1,014 | 2,279 | 235 | 1,440 | 142% | |
| Big Creek below Huntington Lake (6) | 95 | 264 | 11 | 135 | 142% | |
| South Fork near Florence Lake (6) | 202 | 511 | 58 | 280 | 139% | |
| San Joaquin River inflow to Millerton Lake | 1,262 | 3,355 | 262 | **1,810** | 143% | 1,700 - 1,940 |
| **TULARE LAKE** | | | | | | |
| **Kings River** | | | | | | |
| North Fork Kings River near Cliff Camp (3) | 239 | 565 | 50 | 340 | 142% | |
| Kings River below Pine Flat Reservoir | 1,234 | 3,113 | 274 | **1,720** | 139% | 1,640 - 1,830 |
| **Kaweah River below Terminus Reservoir** | 290 | 814 | 62 | **380** | 131% | 360 - 420 |
| **Tule River below Lake Success** | 65 | 259 | 2 | **78** | 120% | 70 - 92 |
| **Kern River** | | | | | | |
| Kern River near Kernville (3) | 373 | 1,203 | 83 | 530 | 142% | |
| Kern River inflow to Lake Isabella | 470 | 1,657 | 84 | **650** | 138% | 610 - 720 |

(1) See inside back cover for definition
(2) All 50 year averages are based on years 1951-2000 unless otherwise noted
(3) 50 year average based on years 1941-90
(4) 44 year average based on years 1936-79
(5) 36 year average based on years 1936-72
(6) 45 year average based on years 1936-81

## MAY 1, 2005 FORECASTS
## WATER YEAR UNIMPAIRED RUNOFF

| HISTORICAL | | | Unimpaired Runoff in 1,000 Acre-Feet (1) 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) |
| 888 | 1,965 | 165 | | | | | | | | | | | |
| 1,234 | 2,353 | 557 | | | | | | | | | | | |
| 3,217 | 5,150 | 1,484 | | | | | | | | | | | |
| 6,194 | 10,796 | 2,479 | 1,535 | 500 | 790 | 600 | 525 | 340 | 245 | 410 | **4,945** | 80% | 4,670 - 5,405 |
| 8,990 | 17,180 | 3,294 | 2,465 | 735 | 1,240 | 875 | 700 | 425 | 320 | 520 | **7,280** | 81% | 6,910 - 7,950 |
| 780 | 1,269 | 366 | | | | | | | | | | | |
| 2,417 | 4,400 | 666 | | | | | | | | | | | |
| 219 | 637 | 24 | | | | | | | | | | | |
| 291 | 562 | 32 | | | | | | | | | | | |
| 4,775 | 9,492 | 994 | 750 | 325 | 685 | 590 | 640 | 310 | 190 | 150 | **3,640** | 76% | 3,395 - 4,030 |
| 564 | 1,056 | 102 | | | | | | | | | | | |
| 181 | 292 | 30 | | | | | | | | | | | |
| 379 | 565 | 98 | | | | | | | | | | | |
| 2,459 | 4,926 | 369 | 345 | 155 | 355 | 320 | 500 | 210 | 50 | 45 | **1,980** | 81% | 1,855 - 2,170 |
| 616 | 1,234 | 66 | | | | | | | | | | | |
| 1,070 | 2,575 | 144 | | | | | | | | | | | |
| 318 | 705 | 59 | | | | | | | | | | | |
| 2,830 | 6,382 | 349 | 500 | 225 | 520 | 465 | 640 | 320 | 75 | 25 | **2,770** | 98% | 2,620 - 2,980 |
| 409 | 1,253 | 20 | 99 | 48 | 118 | 83 | 50 | 13 | 4 | 2 | **417** | 102% | 385 - 450 |
| 626 | 1,009 | 197 | | | | | | | | | | | |
| 774 | 1,800 | 129 | 115 | 65 | 120 | 125 | 260 | 175 | 40 | 5 | **905** | 117% | 860 - 980 |
| 471 | 929 | 88 | | | | | | | | | | | |
| 1,196 | 2,952 | 155 | 230 | 110 | 195 | 215 | 405 | 270 | 80 | 25 | **1,530** | 128% | 1,430 - 1,640 |
| 461 | 1,147 | 123 | | | | | | | | | | | |
| 770 | 1,661 | 258 | | | | | | | | | | | |
| 1,974 | 4,631 | 383 | 440 | 190 | 325 | 305 | 660 | 585 | 200 | 40 | **2,745** | 139% | 2,650 - 2,920 |
| 461 | 1,020 | 92 | | | | | | | | | | | |
| 1,014 | 2,787 | 150 | 280 | 105 | 195 | 155 | 365 | 320 | 100 | 35 | **1,555** | 153% | 1,480 - 1,640 |
| 1,337 | 2,964 | 308 | | | | | | | | | | | |
| 112 | 298 | 14 | | | | | | | | | | | |
| 248 | 653 | 71 | | | | | | | | | | | |
| 1,851 | 4,642 | 362 | 300 | 135 | 225 | 255 | 685 | 620 | 250 | 90 | **2,560** | 138% | 2,420 - 2,720 |
| 284 | 607 | 58 | | | | | | | | | | | |
| 1,736 | 4,287 | 386 | 240 | 85 | 170 | 215 | 640 | 595 | 270 | 95 | **2,310** | 133% | 2,220 - 2,430 |
| 460 | 1,402 | 94 | 70 | 26 | 59 | 68 | 151 | 125 | 36 | 15 | **550** | 120% | 520 - 600 |
| 153 | 615 | 16 | 34 | 11 | 27 | 27 | 30 | 16 | 5 | 3 | **153** | 100% | 145 - 170 |
| 558 | 1,577 | 163 | | | | | | | | | | | |
| 741 | 2,318 | 175 | 110 | 50 | 90 | 130 | 235 | 195 | 90 | 55 | **955** | 129% | 910 - 1,040 |

* Unimpaired runoff in prior months based on measured flows

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

## MAY 1, 2005 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** | | | | | |
| **Trinity River** | | | | | |
| Trinity River at Lewiston Lake (3) | 660 | 1,593 | 80 | **680** | 103% |
| **Scott River** | | | | | |
| Scott River near Fort Jones | 200 | 400 | 30 | **150** | 75% |
| **Klamath River** | | | | | |
| Total inflow to Upper Klamath Lake (4) | 515 | 939 | 149 | **240** | 47% |
| **NORTH LAHONTAN** | | | | | |
| **Truckee River** | | | | | |
| Lake Tahoe to Farad accretions | 272 | 713 | 52 | **290** | 106% |
| Lake Tahoe Rise (assuming gates closed, in ft) | 1.4 | 5.4 | 0.2 | **1.5** | 104% |
| **Carson River** | | | | | |
| West Fork Carson River at Woodfords | 55 | 135 | 12 | **70** | 126% |
| East Fork Carson River near Gardnerville | 190 | 407 | 43 | **245** | 129% |
| **Walker River** | | | | | |
| West Walker River below Little Walker, near Coleville | 153 | 330 | 35 | **195** | 127% |
| East Walker River near Bridgeport | 65 | 209 | 7 | **95** | 145% |
| **SOUTH LAHONTAN** | | | | | |
| **Owens River** | | | | | |
| Total tributary flow to Owens River (5) | 235 | 579 | 96 | **317** | 135% |

## MAY 1, 2005 FORECASTS
## WATER YEAR UNIMPAIRED RUNOFF

| HYDROLOGIC REGION and Watershed | Water Year Unimpaired Runoff in 1,000 Acre-Feet (1) HISTORICAL 50 Yr Avg (2) | Max of Record | Min of Record | FORECAST Water Year Forecasts | Pct of Avg | 80 % Probability Range (1) |
|---|---|---|---|---|---|---|
| **NORTH COAST** | | | | | | |
| **Trinity River** | | | | | | |
| Trinity River at Lewiston Lake (3) | 1,411 | 2,990 | 200 | **1,262** | 89% | 1152 - 1402 |

(1) See inside back cover for definition

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

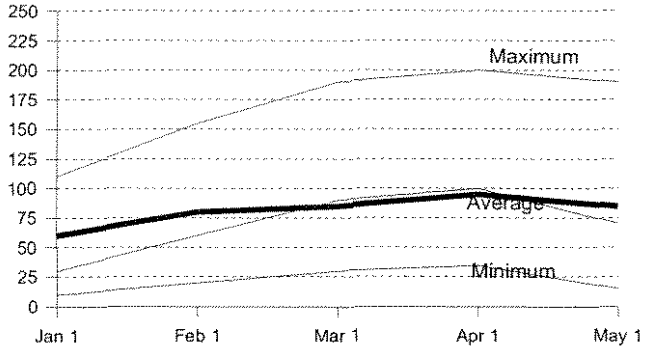
(3) Forecast by DWR and National Weather Service California-Nevada River Forecast Center.

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

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

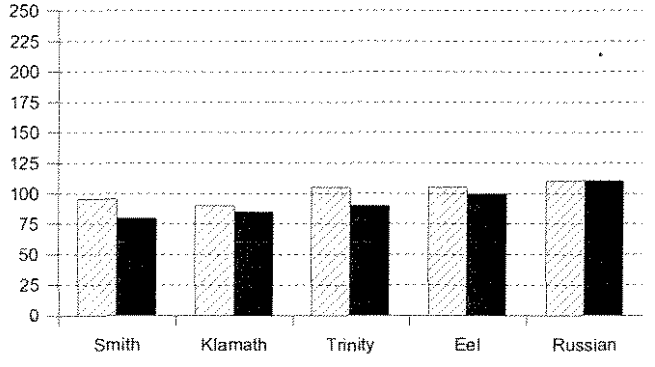
## Snowpack Accumulation

Water Content in % of April 1 Average



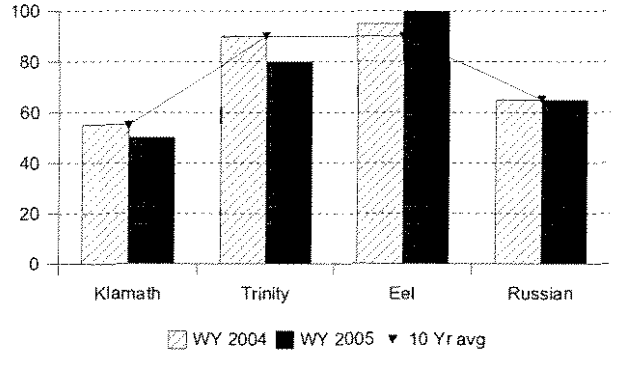

## Precipitation

October 1 to date in % of Average



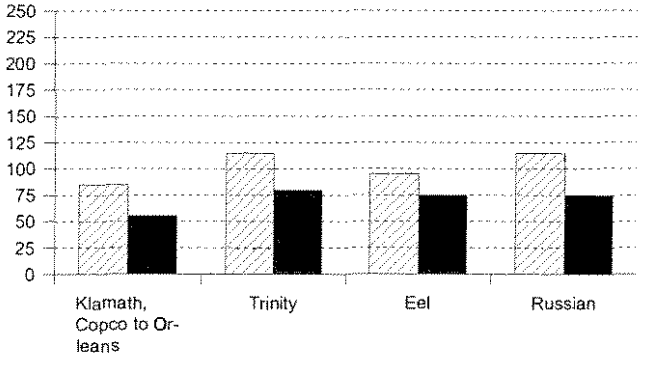

## Reservoir Storage

Contents of major reservoirs in % of capacity




## Runoff

October 1 to date in % of average




# NORTH COAST REGION

***SNOWPACK***- First of the month measurements made at 9 snow courses indicate an area wide snow water equivalent of 30.4 inches. This is 85 percent of the seasonal April 1 average and 120% of the May 1 average. Last year at this time the pack was holding 28.6 inches of water.

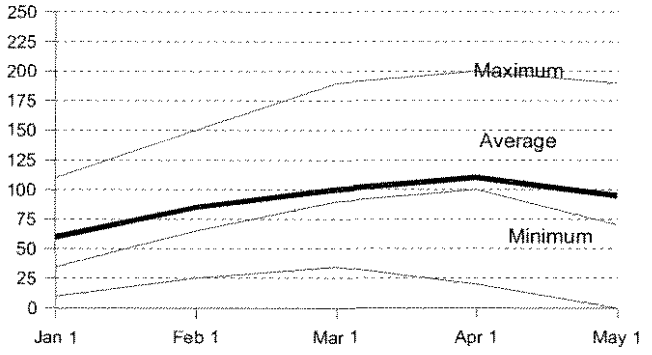
***PRECIPITATION*** - Seasonal precipitation (October 1 through the end of last month) on this area was 95 percent of normal. Precipitation last month was about 150 percent of the monthly average. Seasonal precipitation at this time last year stood at 100 percent of normal.

***RESERVOIR STORAGE***- First of the month storage in 6 reservoirs was 2.5 million acre-feet which is 100 percent of average. About 80 percent of available capacity was being used. Storage in these reservoirs at this time last year was 110 percent of average.

***RUNOFF*** -Seasonal runoff of streams draining the area totaled 7.8 million acre-feet which is 70 percent of the average for this period. Last year, runoff for the same period was 95 percent of average.

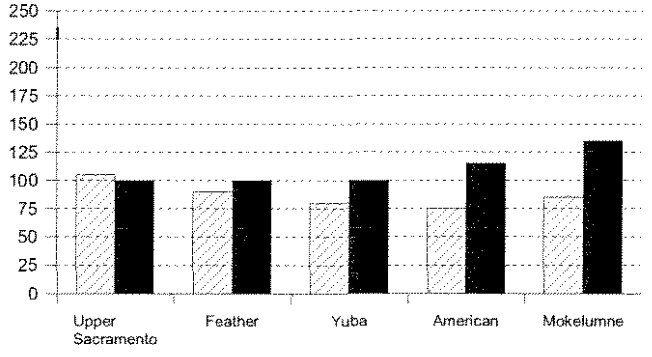
## Snowpack Accumulation

Water Content in % of April 1 Average



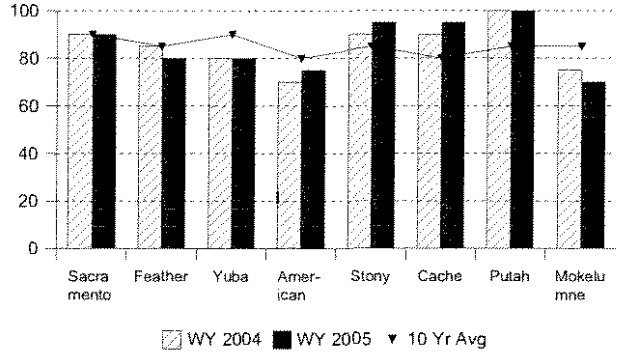

## Precipitation

October 1 to date in % of Average



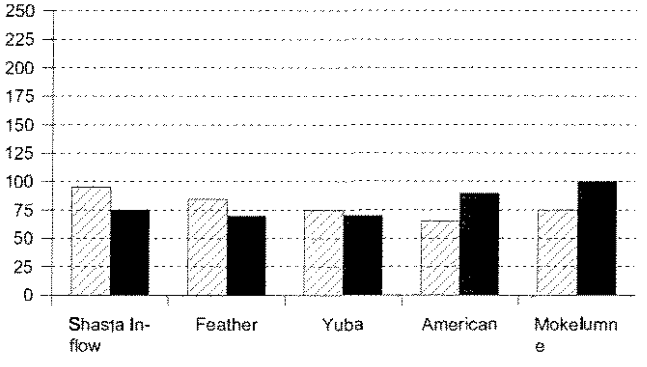

## Reservoir Storage

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 64 snow courses indicate an area wide snow water equivalent of 33.1 inches. This is 95 percent of the seasonal April 1 average and 130 percent of the May 1 average. Last year at this time the pack was holding 16.6 inches of water.

***PRECIPITATION*** - Seasonal precipitation (October 1 through the end of last month) on this area was 110 percent of normal. Precipitation last month was about 90 percent of the monthly average. Seasonal precipitation at this time last year stood at 90 percent of normal.

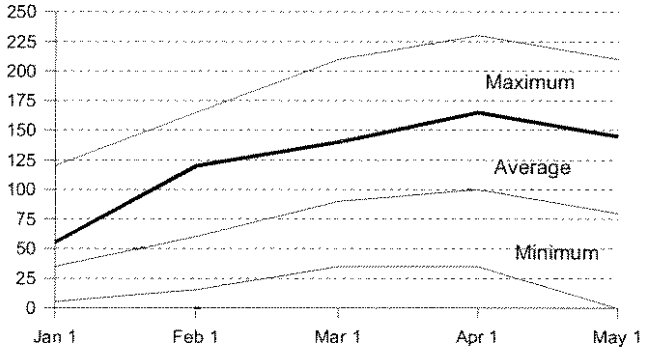
***RESERVOIR STORAGE***- First of the month storage in 43 reservoirs was 13.7 million acre-feet which is 105 percent of average. About 85 percent of available capacity was being used. Storage in these reservoirs at this time last year was 105 percent of average.

***RUNOFF*** - Seasonal runoff of streams draining the area totaled 10.6 million acre-feet which is 75 percent of average for this period. Last year, runoff for the same period was 90 percent of average.

The **Sacramento Region 40-30-30 Water Supply Index** is forecast to be 7.4 assuming median meteorological conditions for the remainder of the year. This classifies the year as " below normal" in the Sacramento Valley according to the State Water Resources Control Board.

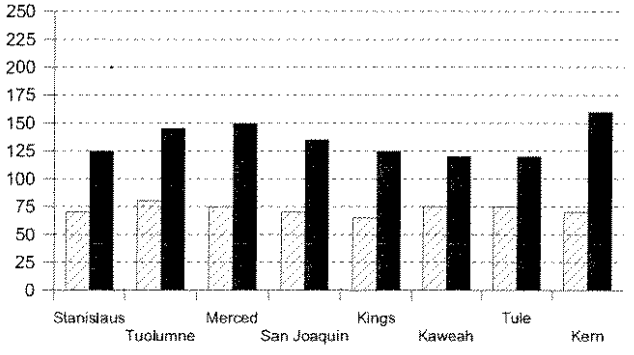
## Snowpack Accumulation

Water Content in % of April 1 Average



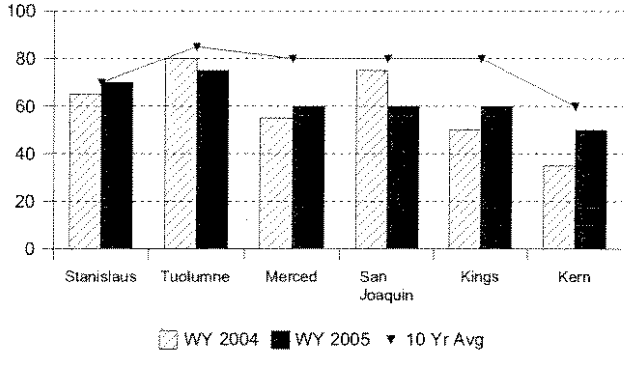

## Precipitation

October 1 to date in % of Average



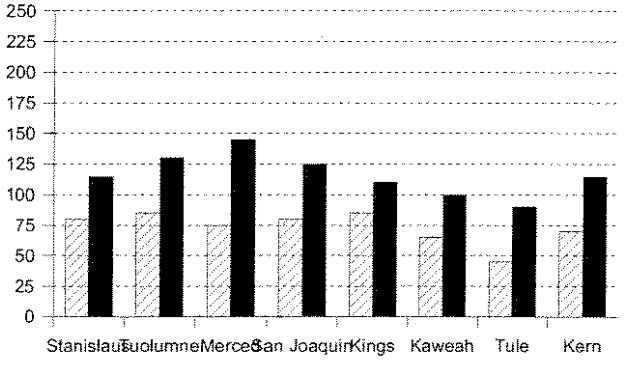

## Reservoir Storage

Contents of major reservoirs in % of capacity




## Runoff

October 1 to date in % of average




# SAN JOAQUIN RIVER AND TULARE LAKE REGIONS

***SNOWPACK***- First of the month measurements made at 56 **San Joaquin Region** snow courses indicate an area wide snow water equivalent of 48.5 inches. This is 150 percent of the seasonal (April 1) average and 180 percent of the May 1 average. Last year at this time the pack was holding 13.6 inches of water.

At the same time 31 **Tulare Lake Region** snow courses indicated a basin-wide snow water equivalent of 32.4 inches which is 135 percent of the average for April 1 and 175 percent of May 1. Last year at this time the basin was holding 7.2 inches of water.

***PRECIPITATION*** - Seasonal precipitation (October 1 through the end of last month) on the **San Joaquin Region** was 140 percent of normal. Precipitation last month was about 70 percent of the monthly average. Seasonal precipitation at this time last year stood at 80 percent of normal.

Seasonal precipitation on the **Tulare Lake Region** was 135 percent of normal. Precipitation last month was about 90 percent of the monthly average. Seasonal precipitation at this time last year stood at 70 percent of normal.

***RESERVOIR STORAGE***- First of the month storage in 34 **San Joaquin Region** reservoirs was 8.5 million acre-feet which is 110 percent of average. About 75 percent of available capacity was being used. Storage in these reservoirs at this time last year was 110 percent of average.

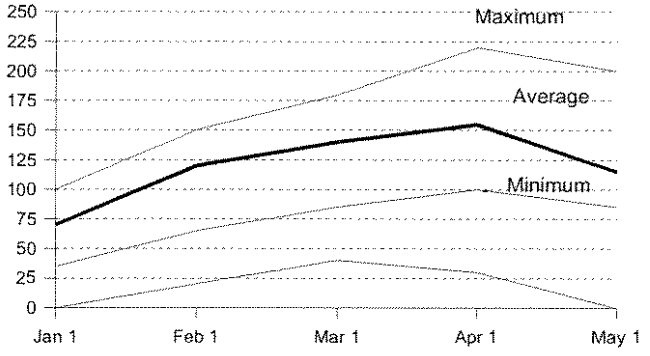
First of the month storage in 6 **Tulare Lake Region** reservoirs was 1.1 million acre-feet which is 110 percent of average and about 55 percent of available capacity. Storage in these reservoirs at this time last year was 95 percent of average.

***RUNOFF***- Seasonal runoff of streams draining the **San Joaquin Region** totaled 4.4 million acre-feet which is 125 percent of average for this period. Last year, runoff for the same period was 75 percent of average. Seasonal runoff of streams draining the **Tulare Lake Basin** totaled 1.4 million acre-feet which is 110 percent of average for this period. Last year runoff for this same period was 75 percent of average.

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

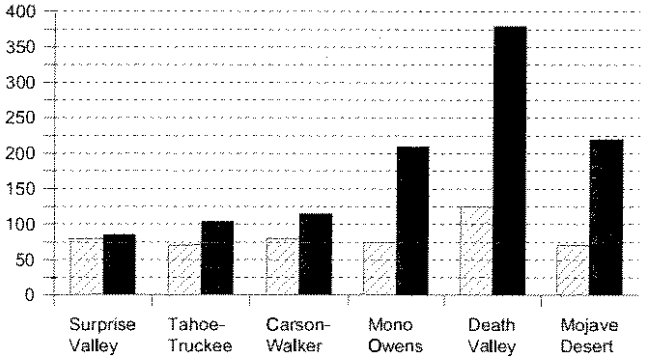
## Snowpack Accumulation

Water Content in % of April 1 Average



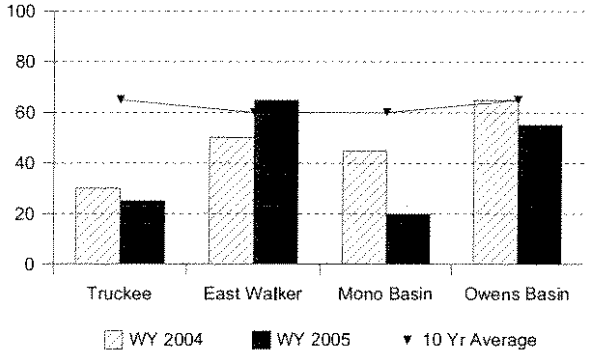

## Precipitation

October 1 to date in % of Average



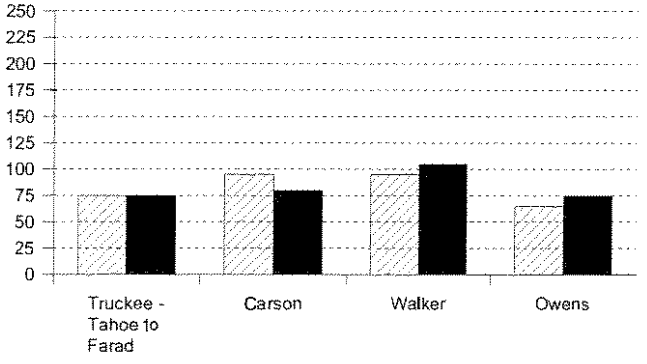

## Reservoir Storage

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 6 **North Lahontan Region** snow courses indicate an area wide snow water equivalent of 24.9 inches. This is 105 percent of the seasonal (April 1) average and 125 percent of the May 1 average. Last year at this time the pack was holding 11.3 inches of water. At the same time 2 **South Lahontan** snow courses indicated a basin-wide snow water equivalent of 18.5 inches which is 145 percent of the seasonal (April 1) average and 170 percent of the May 1 average. Last year at this time the basin was holding 5 inches of water.

***PRECIPITATION*** - Seasonal precipitation (October 1 through the end of last month) on the **North Lahontan Region** was 100 percent of normal. Precipitation last month was about 105 percent of the monthly average. Seasonal precipitation at this time last year stood at 75 percent of normal.
Seasonal precipitation on the **South Lahontan** was 270 percent of normal. Precipitation last month was about 40 percent of the monthly average. Seasonal precipitation at this time last year stood at 90 percent of normal.

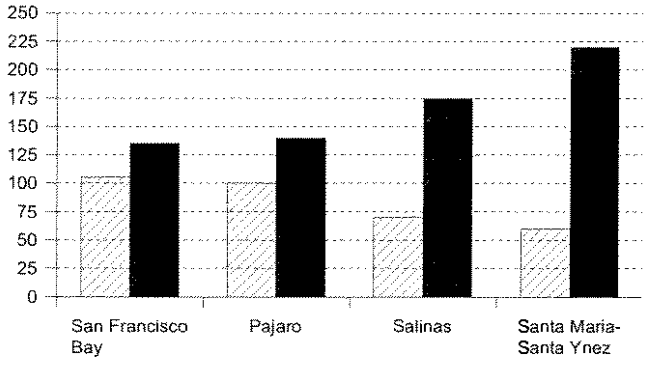
***RESERVOIR STORAGE***- First of the month storage in 5 **North Lahontan** reservoirs was 289 thousand acre-feet which is 45 percent of average. About 25 percent of available capacity was being used. Storage in these reservoirs at this time last year was 50 percent of average. Lake Tahoe was .8 foot above its natural rim on May 1.
First of the month storage in 8 **South Lahontan** reservoirs was 232 thousand acre-feet which is 90 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 366 thousand acre-feet which is 80 percent of average for this period. Last year, runoff for the same period was 85 percent of average.

Seasonal runoff of the Owens River in the **South Lahontan** totaled 61 thousand acre-feet which is 75 percent of average for this period. Last year runoff for this same period was 65 percent of average.

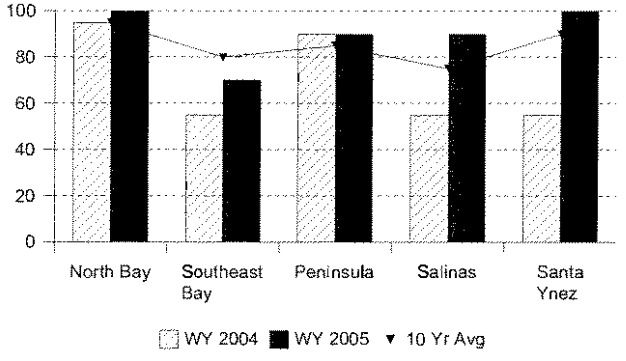
## Precipitation

October 1 to date in % of Average



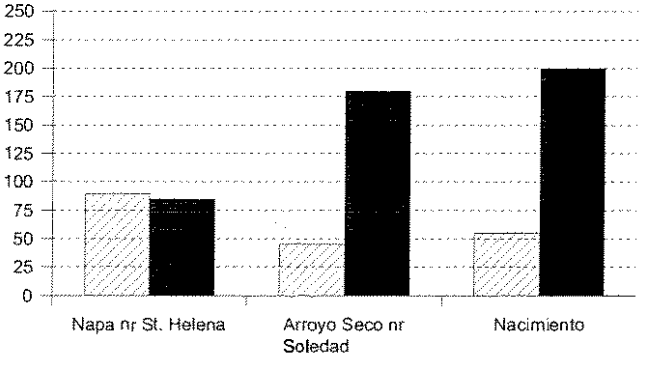

## Reservoir Storage

Contents of major reservoirs in % of capacity




## Runoff

October 1 to date in % of average




# SAN FRANCISCO BAY AND CENTRAL COAST REGIONS

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

Seasonal precipitation on the **Central Coast Region** was 180 percent of normal. Precipitation last month was about 105 percent of the monthly average. Seasonal precipitation at this time last year stood at 75 percent of normal.

***RESERVOIR STORAGE***- First of the month storage in 14 **San Francisco Bay Region** reservoirs was 431 thousand 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 95 percent of average.

First of the month storage in 6 **Central Coast Region** reservoirs was 887 thousand acre-feet which is 125 percent of average and about 90 percent of available capacity. Storage in these reservoirs at this time last year was 75 percent of average.

***RUNOFF***- Seasonal runoff of the Napa River in the **San Francisco Bay Region** totaled 64 thousand acre-feet which is 85 percent of average for this period. Last year, runoff for the same period was 90 percent of average.

Seasonal runoff of streams draining the **Central Coast Region** totaled 609 thousand acre-feet which is 195 percent of average for this period. Last year runoff for this same period was 50 percent of average.

## SOUTH COAST AND COLORADO RIVER REGIONS

***PRECIPITATION*** - October through April (seasonal) precipitation on the **South Coast Region** was 220 percent of normal. April precipitation was 85 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** was 295 percent of normal. Precipitation during April was 25 percent of average. Seasonal precipitation at this time last year stood at 115 percent of average.

***RESERVOIR STORAGE*** - May 1 storage in 29 major **South Coast Region** reservoirs was 1.7 million acre-feet or 115 percent of average. About 90 percent of available capacity was being used. Storage in these reservoirs at this time last year was 85 percent of average.
On May 1 combined storage in Lakes Powell, Mead, Mohave and Havasu was about 27 million acre-feet or about 65 percent of average. About 50 percent of available capacity was in use. Last year at this time, these reservoirs were storing 65 percent of average.

***RUNOFF*** - Seasonal runoff from selected **South Coast Region** streams totaled 131 thousand acre-feet which is 280 percent of average. Seasonal runoff from these streams last year was 30 percent of average.

## COLORADO RIVER

The April July inflow to Lake Powell is forecast to be 8.6 million acre-feet, which is 108 percent of average. The May 1 snowpack in the Colorado River basin above Lake Powell was 115 percent of average, highest in the Duchesne River at 155 percent and lowest in the Yampa/White at 80 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 April 2004 1,000 AF | 2005 1,000 AF | PERCENT AVERAGE | PERCENT CAPACITY |
|---|---|---|---|---|---|---|
| *STATE WATER PROJECT* | | | | | | |
| Lake Oroville | 3,538 | 2,967 | 3,049 | 2,842 | 96% | 80% |
| San Luis Reservoir (SWP) | 1,062 | 983 | 939 | 933 | 95% | 88% |
| Lake Del Valle | 77 | 39 | 41 | 41 | 105% | 53% |
| Lake Silverwood | 73 | 68 | 72 | 72 | 106% | 98% |
| Pyramid Lake | 171 | 163 | 161 | 163 | 100% | 95% |
| Castaic Lake | 325 | 286 | 310 | 318 | 111% | 98% |
| Perris Lake | 132 | 117 | 121 | 125 | 107% | 95% |
| *CENTRAL VALLEY PROJECT* | | | | | | |
| Trinity Lake | 2,448 | 2,045 | 2,226 | 1,969 | 96% | 80% |
| Lake Shasta | 4,552 | 3,950 | 4,060 | 4,207 | 107% | 92% |
| Whiskeytown Lake | 241 | 231 | 232 | 238 | 103% | 99% |
| Folsom Lake | 977 | 728 | 630 | 830 | 114% | 85% |
| New Melones Reservoir | 2,420 | 1,446 | 1,471 | 1,678 | 116% | 69% |
| Millerton Lake | 520 | 352 | 473 | 414 | 118% | 80% |
| San Luis Reservoir (CVP) | 971 | 880 | 830 | 965 | 110% | 99% |
| *COLORADO RIVER PROJECT* | | | | | | |
| Lake Mead | 26,159 | 20,374 | 14,866 | 15,869 | 78% | 61% |
| Lake Powell | 24,322 | 19,267 | 10,193 | 8,538 | 44% | 35% |
| Lake Mohave | 1,810 | 1,672 | 1,680 | 1,709 | 102% | 94% |
| Lake Havasu | 619 | 588 | 558 | 586 | 100% | 95% |
| *EAST BAY MUNICIPAL UTILITY DISTRICT* | | | | | | |
| Pardee Res | 198 | 182 | 176 | 187 | 103% | 95% |
| Camanche Reservoir | 417 | 258 | 357 | 373 | 144% | 89% |
| East Bay (4 res.) | 147 | 136 | 138 | 130 | 96% | 88% |
| *CITY AND COUNTY OF SAN FRANCISCO* | | | | | | |
| Hetch-Hetchy Reservoir | 360 | 157 | 260 | 184 | 117% | 51% |
| Cherry Lake | 268 | 145 | 248 | 226 | 156% | 84% |
| Lake Eleanor | 26 | 15 | 26 | 24 | 166% | 94% |
| South Bay/Peninsula (4 res.) | 225 | 182 | 149 | 158 | 87% | 70% |
| *CITY OF LOS ANGELES (D.W.P.)* | | | | | | |
| Lake Crowley | 183 | 124 | 120 | 122 | 98% | 66% |
| Grant Lake | 48 | 26 | 23 | 17 | 65% | 35% |
| Other Aqueduct Storage (6 res.) | 95 | 75 | 54 | 37 | 49% | 38% |

# TELEMETERED SNOW WATER EQUIVALENTS

May 1, 2005

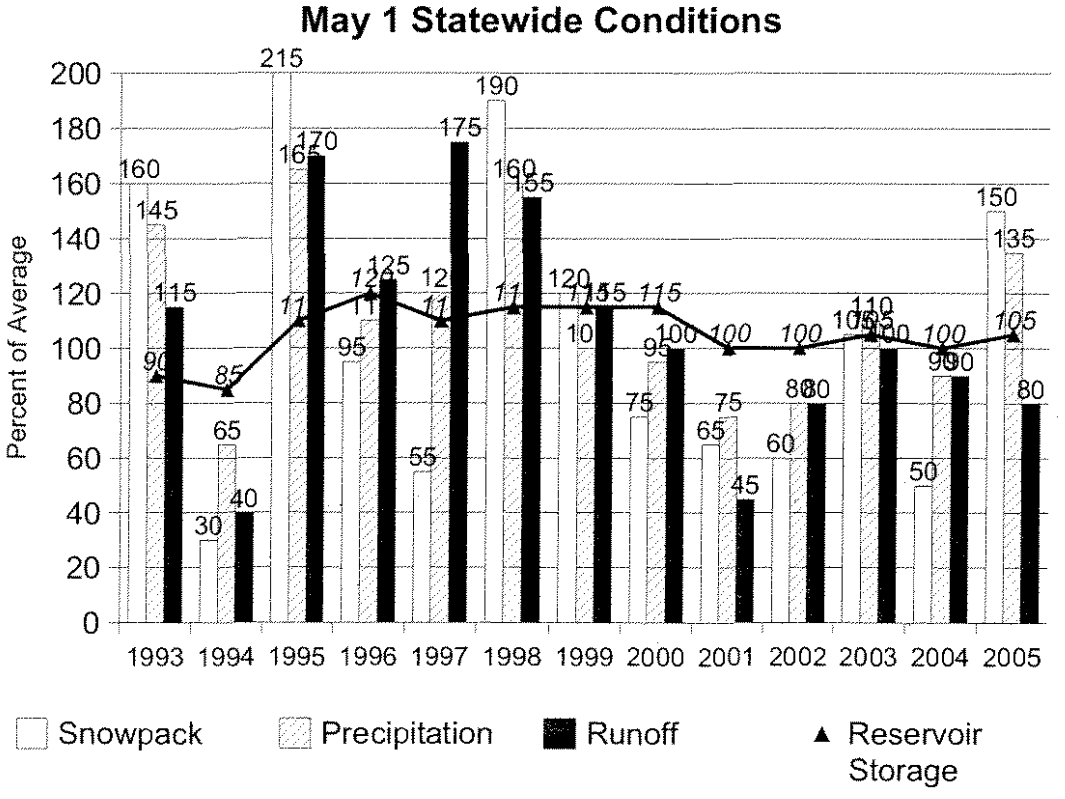
(AVERAGES BASED ON PERIOD RECORD)

| BASIN NAME / STATION NAME | ELEV | APRIL 1 AVERAGE | INCHES OF WATER EQUIVALENT May 1 | PERCENT OF AVERAGE | 24 HRS PREVIOUS | 1 WEEK PREVIOUS |
|---|---|---|---|---|---|---|
| **TRINITY RIVER** | | | | | | |
| Peterson Flat | 7150' | 29.2 | 22.4 | 76.8 | 22.9 | 26.3 |
| Red Rock Mountain | 6700' | 39.6 | — | — | — | — |
| Bonanza King | 6450' | 40.5 | 37.1 | 91.6 | 36.8 | 37.1 |
| Shimmy Lake | 6400' | 40.3 | 66.0 | 163.8 | 66.0 | 66.0 |
| Middle Boulder 3 | 6200' | 28.3 | — | — | — | — |
| Highland Lakes | 6030' | 29.9 | — | — | — | — |
| Scott Mountain | 5900' | 16.0 | 19.6 | 122.2 | 20.6 | 25.4 |
| Mumbo Basin | 5650' | 22.4 | 18.3 | 81.9 | 19.3 | 24.5 |
| Big Flat | 5100' | 15.8 | 15.8 | 100.1 | 16.7 | 20.5 |
| Crowder Flat | 5100' | — | 0.0 | — | 0.0 | 0.0 |
| **SACRAMENTO RIVER** | | | | | | |
| Cedar Pass | 7100' | 18.1 | 15.9 | 87.8 | 16.4 | 16.9 |
| Blacks Mountain | 7050' | 12.7 | 5.2 | 40.6 | 5.6 | 7.8 |
| Sand Flat | 6750' | 42.4 | 42.1 | 99.3 | 43.1 | 44.4 |
| Medicine Lake | 6700' | 32.6 | 30.5 | 93.5 | 31.4 | 36.0 |
| Adin Mountain | 6200' | 13.6 | 1.6 | 11.8 | 2.5 | 6.0 |
| Snow Mountain | 5950' | 27.0 | 20.9 | 77.3 | 21.8 | 25.9 |
| Slate Creek | 5700' | 29.0 | 15.8 | 54.6 | 17.8 | 32.3 |
| Stouts Meadow | 5400' | 36.0 | 38.0 | 105.5 | 38.9 | 43.9 |
| **FEATHER RIVER** | | | | | | |
| Kettle Rock | 7300' | 25.5 | 21.8 | 85.6 | 22.6 | 25.8 |
| Grizzly Ridge | 6900' | 29.7 | 25.3 | 85.3 | 26.0 | 27.7 |
| Pilot Peak | 6800' | 52.6 | — | — | — | — |
| Gold Lake | 6750' | 36.5 | 55.6 | 152.2 | 55.9 | 57.8 |
| Humbug | 6500' | 28.0 | 45.5 | 162.6 | 46.0 | 48.4 |
| Rattlesnake | 6100' | 14.0 | 16.7 | 119.1 | 17.4 | 22.0 |
| Bucks Lake | 5750' | 44.7 | 44.6 | 99.9 | 45.2 | 47.4 |
| Four Trees | 5150' | 20.0 | 8.6 | 43.2 | 9.5 | 14.0 |
| **EEL RIVER** | | | | | | |
| Noel Spring | 5100' | — | — | — | — | — |
| **YUBA & AMERICAN RIVERS** | | | | | | |
| Lake Lois | 8600' | 39.5 | 73.6 | 186.3 | 73.0 | 71.6 |
| Schneiders | 8750' | 34.5 | 57.6 | 166.9 | 57.4 | 57.6 |
| Carson Pass | 8353' | — | 48.8 | — | 48.6 | 49.0 |
| Caples Lake | 8000' | 30.9 | 35.4 | 114.5 | 35.4 | 36.0 |
| Alpha | 7600' | 35.9 | — | — | — | — |
| Meadow Lake | 7200' | 55.5 | 57.6 | 103.8 | 58.0 | 59.3 |
| Silver Lake | 7100' | 22.7 | 31.3 | 137.9 | 31.8 | 32.9 |
| Central Sierra Snow Lab | 6900' | 33.6 | 34.8 | 103.6 | 35.5 | 38.8 |
| Huysink | 6600' | 42.6 | 41.5 | 97.5 | 41.9 | 42.8 |
| Van Vleck | 6700' | 35.9 | 47.6 | 132.6 | 48.3 | 50.4 |
| Robbs Saddle | 5900' | 21.4 | 22.2 | 103.7 | 23.4 | 26.4 |
| Greek Store | 5600' | 21.0 | 30.0 | 142.9 | 31.0 | 33.4 |
| Blue Canyon | 5280' | 9.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Robbs Powerhouse | 5150' | 5.2 | 4.1 | 79.6 | 5.6 | 10.7 |
| **MOKELUMNE & STANISLAUS RIVERS** | | | | | | |
| Deadman Creek | 9250' | 37.2 | — | — | 25.0 | 24.5 |
| Highland Meadow | 8700' | 47.9 | 46.0 | 96.0 | 46.5 | 48.8 |
| Gianelli Meadow | 8400' | 55.5 | 56.3 | 101.4 | 57.0 | 59.4 |
| Lower Relief Valley | 8100' | 41.2 | 55.3 | 134.2 | 55.8 | 57.1 |
| Blue Lakes | 8000' | 33.1 | 45.7 | 138.1 | 45.7 | 46.2 |
| Mud Lake | 7900' | 44.9 | 67.6 | 150.6 | 67.7 | 68.2 |
| Stanislaus Meadow | 7750' | 47.5 | 55.9 | 117.6 | 56.6 | 57.1 |
| Bloods Creek | 7200' | 35.5 | 38.0 | 107.2 | 39.4 | 41.2 |
| Black Springs | 6500' | 32.0 | 45.0 | 140.6 | 45.0 | 45.8 |
| **TUOLUMNE & MERCED RIVERS** | | | | | | |
| Tioga Pass Entrance | 9945' | — | — | — | — | — |
| Dana Meadows | 9800' | 27.7 | 29.0 | 104.7 | 29.3 | 30.1 |
| Slide Canyon | 9200' | 41.1 | 53.7 | 130.6 | 53.7 | 53.7 |
| Lake Tenaya | 8150' | 33.1 | 38.6 | 116.7 | 39.0 | 41.5 |
| Tuolumne Meadows | 8600' | 22.6 | 23.6 | 104.5 | 24.1 | 25.4 |
| Horse Meadow | 8400' | 48.6 | — | — | — | — |
| Ostrander Lake | 8200' | 34.8 | 53.6 | 154.1 | 49.1 | 49.6 |
| Paradise Meadow | 7650' | 41.3 | 53.4 | 129.3 | 54.0 | 56.7 |
| Gin Flat | 7050' | 34.2 | 38.1 | 111.5 | 38.4 | 38.6 |
| Lower Kibbie Ridge | 6700' | 27.4 | 28.5 | 104.1 | 29.5 | 31.7 |

| | | | | | | |
|---|---|---|---|---|---|---|
| **SAN JOAQUIN RIVER** | | | | | | |
| Volcanic Knob | 10050' | 30.1 | 35.3 | 117.3 | 36.0 | 35.3 |
| Agnew Pass | 9450' | 32.3 | — | — | — | 44.5 |
| Kaiser Point | 9200' | 37.8 | 44.3 | 117.3 | 44.3 | 44.7 |
| Green Mountain | 7900' | 30.8 | 44.7 | 145.1 | 45.0 | 46.7 |
| Tamarack Summit | 7550' | 30.5 | 43.4 | 142.4 | 44.4 | 46.7 |
| Chilkoot Meadow | 7150' | 38.0 | 65.3 | 171.7 | 65.4 | 65.7 |
| Huntington Lake | 7000' | 20.1 | 31.3 | 155.8 | 32.3 | 33.5 |
| Graveyard Meadow | 6900' | 18.8 | 34.1 | 181.3 | 34.7 | 36.8 |
| Poison Ridge | 6900' | 28.9 | 43.9 | 152.0 | 44.4 | 45.5 |
| **KINGS RIVER** | | | | | | |
| Bishop Pass | 11200' | 34.0 | 39.0 | 114.6 | 39.0 | 39.0 |
| Charlotte Lake | 10400' | 27.5 | 37.2 | 135.2 | 37.1 | 36.8 |
| State Lakes | 10300' | 29.0 | 51.7 | 178.3 | 51.7 | 50.7 |
| Mitchell Meadow | 9900' | 32.9 | 52.7 | 160.2 | 52.7 | 52.7 |
| Blackcap Basin | 10300' | 34.3 | 47.4 | 138.3 | 47.1 | 47.1 |
| Upper Burnt Corral | 9700' | 34.6 | 49.3 | 142.6 | 49.3 | 49.8 |
| West Woodchuck Meadow | 9100' | 32.8 | 45.0 | 137.2 | 44.8 | 45.0 |
| Big Meadows | 7600' | 25.9 | 36.8 | 142.2 | 37.6 | 37.8 |
| **KAWEAH & TULE RIVERS** | | | | | | |
| Farewell Gap | 9500' | 34.5 | 65.1 | 188.6 | 65.4 | 65.8 |
| Quaking Aspen | 7200' | 21.0 | 20.2 | 96.0 | 20.9 | 21.8 |
| Giant Forest | 6650' | 10.0 | 5.1 | 51.0 | 5.1 | 6.6 |
| **KERN RIVER** | | | | | | |
| Upper Tyndall Creek | 11400' | 27.7 | 39.6 | 143.0 | 39.6 | 39.7 |
| Crabtree Meadow | 10700' | 19.8 | 24.4 | 123.0 | 24.4 | 26.2 |
| Chagoopa Plateau | 10300' | 21.8 | 26.1 | 119.9 | 26.8 | 26.1 |
| Pascoes | 9150' | 24.9 | 50.1 | 201.2 | 50.4 | 50.5 |
| Tunnel Guard Station | 8900' | 15.6 | 13.0 | 83.1 | 13.5 | 16.3 |
| Wet Meadows | 8950' | 30.3 | 48.6 | 160.4 | 48.6 | 48.6 |
| Casa Vieja Meadows | 8300' | 20.9 | 24.6 | 117.9 | 24.7 | 27.5 |
| Beach Meadows | 7650' | 11.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| **SURPRISE VALLEY AREA** | | | | | | |
| Dismal Swamp | 7050' | 29.2 | 29.4 | 100.7 | 29.9 | 30.0 |
| **TRUCKEE RIVER** | | | | | | |
| Mount Rose Ski Area | 8900' | 38.5 | 48.4 | 125.7 | 48.6 | 48.1 |
| Independence Lake | 8450' | 41.4 | 51.7 | 124.9 | 51.7 | 51.5 |
| Big Meadows | 8700' | 25.7 | 23.8 | 92.6 | 24.0 | 26.0 |
| Squaw Valley | 8200' | 46.5 | 74.6 | 160.4 | 74.7 | 74.4 |
| Independence Camp | 7000' | 21.8 | 15.1 | 69.3 | 15.8 | 18.8 |
| Independence Creek | 6500' | 12.7 | 7.3 | 57.5 | 8.0 | 11.9 |
| Truckee 2 | 6400' | 14.3 | 11.8 | 82.5 | 12.5 | 16.5 |
| **LAKE TAHOE BASIN** | | | | | | |
| Heavenly Valley | 8800' | 28.1 | 35.3 | 125.6 | 35.3 | 36.2 |
| Hagans Meadow | 8000' | 16.5 | 13.9 | 84.2 | 14.5 | 17.6 |
| Marlette Lake | 8000' | 21.1 | 31.6 | 149.8 | 32.0 | 33.4 |
| Echo Peak 5 | 7800' | 39.5 | 51.4 | 130.1 | 51.8 | 54.0 |
| Rubicon Peak 2 | 7500' | 29.1 | 39.2 | 134.7 | 39.2 | 40.0 |
| Tahoe City Cross | 6750' | 16.0 | 2.7 | 16.9 | 3.3 | 7.4 |
| Ward Creek 3 | 6750' | 39.4 | 44.3 | 112.4 | 44.8 | 47.6 |
| Fallen Leaf Lake | 6250' | 7.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| **CARSON RIVER** | | | | | | |
| Ebbetts Pass | 8700' | 38.8 | 44.3 | 114.2 | 44.3 | 44.0 |
| Horse Meadow | 8557' | — | 24.7 | — | 25.0 | 25.9 |
| Burnside Lake | 8129' | — | 26.6 | — | 27.2 | 29.8 |
| Forestdale Creek | 8017' | — | 32.4 | — | 32.5 | 32.8 |
| Poison Flat | 7900' | 16.2 | 14.6 | 90.1 | 15.2 | 19.6 |
| Monitor Pass | 8350' | — | 17.3 | — | 18.1 | 20.2 |
| Spratt Creek | 6150' | 4.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| **WALKER RIVER** | | | | | | |
| Leavitt Lake | 9600' | — | 83.0 | — | 82.6 | 81.6 |
| Summit Meadow | 9313' | — | 37.1 | — | 37.4 | 38.6 |
| Virginia Lakes | 9300' | 20.3 | 32.9 | 162.1 | 33.3 | 35.2 |
| Lobdell Lake | 9200' | 17.3 | 24.2 | 139.9 | 25.3 | 27.8 |
| Sonora Pass Bridge | 8750' | 26.0 | 38.3 | 147.3 | 38.6 | 41.0 |
| Leavitt Meadows | 7200' | 8.0 | 11.8 | 147.5 | 13.3 | 17.6 |
| **OWENS RIVER/MONO LAKE** | | | | | | |
| Gem Pass | 10750' | 31.7 | 54.0 | 170.3 | 54.5 | 56.4 |
| Sawmill | 10200' | 19.4 | — | — | — | — |
| Cottonwood Lakes | 10150' | 11.6 | 24.4 | 210.8 | 24.6 | 26.1 |
| Big Pine Creek | 9800' | 17.9 | — | — | — | — |
| South Lake | 9600' | 16.0 | 23.6 | 147.8 | 24.1 | 26.0 |
| Mammoth Pass | 9300' | 42.4 | 60.7 | 143.2 | 60.7 | 60.8 |
| Rock Creek Lakes | 10000' | 14.0 | 15.6 | 111.7 | 16.4 | 18.4 |

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% |




## SNOWLINES

**April** did provide a boost to Spring snowpack unlike last year. http://www.wrh.noaa.gov/cnrfc/snowmelt.pdf has the latest 5 to 20 day spring snowmelt forecasts along with the day on which a river peaked.

**On this month's** cover is John Dittli sampling Bishop Pass snow course on the April, 2004 survey. Photo and copyright Randall Osterhuber.