



**California Cooperative  
Snow Surveys  
Bulletin 120-92**

State of California  
The Resources Agency

Department of  
Water Resources

# Water Conditions in California

Report 2 March 1, 1992



**Douglas P. Wheeler**  
Secretary for Resources  
The Resources Agency

**Pete Wilson**  
Governor  
State of California

**David N. Kennedy**  
Director  
Department of Water Resources

**STATE OF CALIFORNIA**

Pete Wilson, Governor

**THE RESOURCES AGENCY**

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**COOPERATING AGENCIES**

**Public Agencies**

- Buena Vista Water Storage District
- Central California Irrigation District
- East Bay Municipal Utility District
- Friant Water Users Association
- Kaweah Delta Water Conservation District
- Kern Delta Water District
- Kings River Conservation District
- Lower Tule River Irrigation District
- Merced Irrigation District
- Modesto Irrigation District
- Nevada Irrigation District
- North Kern Water Storage District
- Northern California Power Agency
- Oakdale Irrigation District
- Omochumne-Hartnell Water District
- Oroville-Wyandotte Irrigation District
- Placer County Water Agency
- Sacramento Municipal Utility District
- South San Joaquin Irrigation District
- Tri-Dam Project
- Tulare Lake Basin Water Storage District
- Turlock Irrigation District
- Yuba County Water Agency

**Private Organizations**

- J.G. Boswell Company
- Kaweah River Association
- Kings River Water Association
- St. Johns River Association
- Tule River Association
- U.S. Tungsten Corporation
- State Water Contractors
- Public Utilities**
- Pacific Gas and Electric Company
- Southern California Edison Company
- Sierra Pacific Power Company
- Municipalities**
- City of Bakersfield  
Water Department
- City of Los Angeles  
Department of Water and Power
- City and County of San Francisco  
Hetch Hetchy Water and Power
- State Agencies**
- California Department of Forestry  
& Fire Protection
- California Department of Water Resources

**Federal Agencies**

- U.S. Department of Agriculture  
Forest Service(14 National Forests)  
Pacific Southwest Forest and Range  
Experiment Station  
Soil Conservation Service
- U.S. Department of Commerce  
National Weather Service
- U.S. Department of Interior  
Bureau of Reclamation  
Geological Survey, Water Resources  
Division  
National Park Service(3 National Parks)
- U.S. Department of Army  
Corps of Engineers
- Other Cooperative Programs**
- Nevada Cooperative Snow Surveys
- Oregon Cooperative Snow Surveys

## SUMMARY OF WATER CONDITIONS

**MARCH 1, 1992**

For the first time in February since 1986 precipitation has been above average. The series of storms that began about the tenth of February increased California's statewide snowpack from less than half to just under three-quarters of average. Heaviest snowfall amounts fell in the northern mountains. As a result the water supply outlook has brightened considerably. However, February precipitation was not enough to erase the seasonal deficit of the preceding three months. The fact remains that our water supply is still forecast to be well below normal.

**FORECASTS** of statewide April through July runoff is now expected to be 60 percent of average. This is a 10 percent increase over the forecasted runoff a month ago.

**SNOWPACK** water content rose from 45 to 70 percent of average during February. Even though water content of the pack is several times greater than it was a year ago and 25 percent more than it was at the beginning of February, it is still below average. Greatest amounts, about 75 percent of average, are in the Sacramento Basin while the North Lahontan snowpack water content is lowest - about 55 percent of average.

**PRECIPITATION** in February averaged 160 percent statewide and ranged from about half of average in some northeastern areas to over three times normal in parts of Southern California.

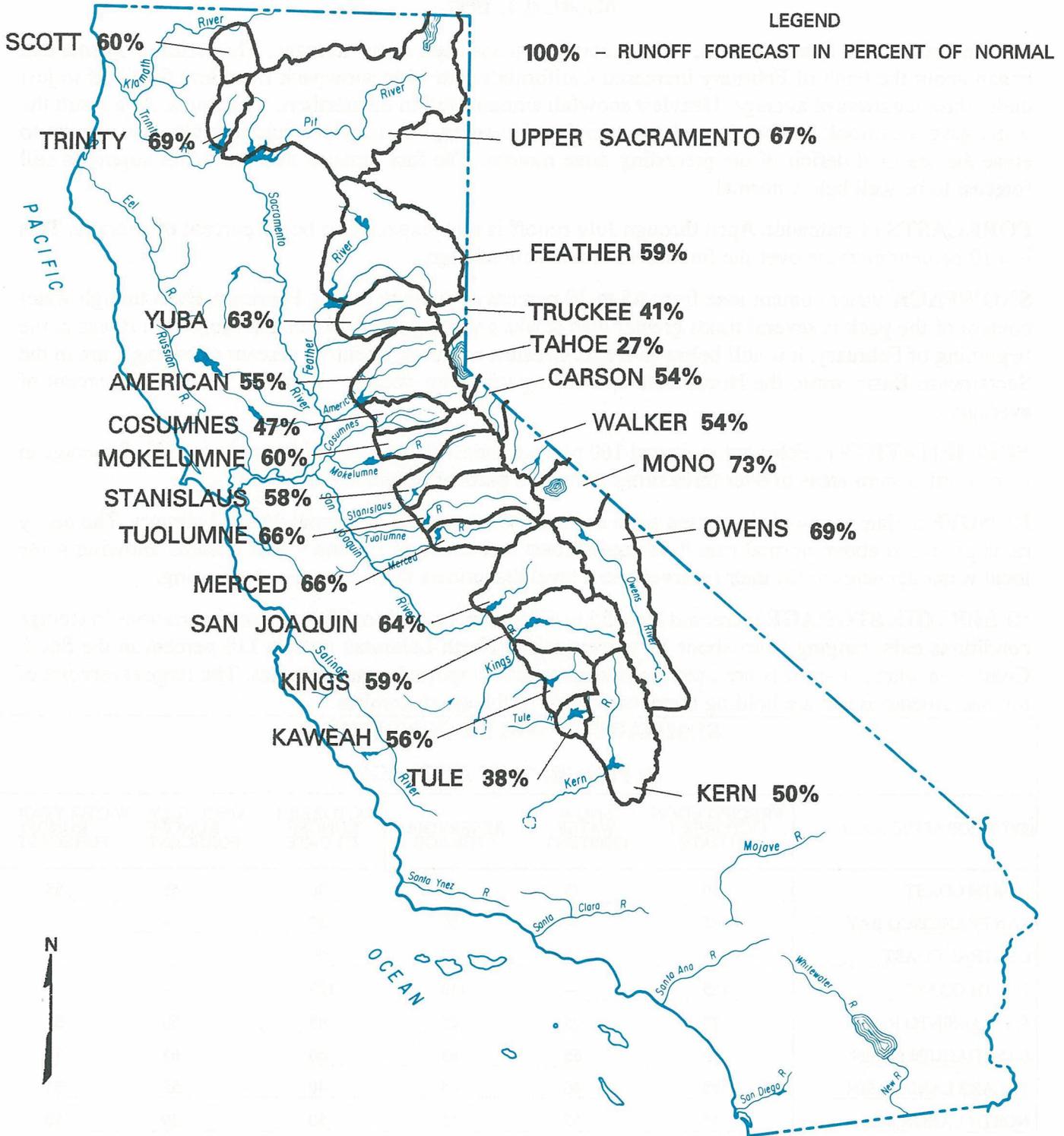
**RUNOFF** to date statewide increased from about 25 to 40 percent of normal during February. The heavy rains produced above normal runoff in South Coast and southern Central Coast streams allowing some local water agencies to fill their reservoirs to a level that allows them to suspend rationing.

**RESERVOIR STORAGE** increased from 55 to 65 percent statewide. Wide regional variations in storage conditions exist ranging from about 15 percent in the North Lahontan area to 110 percent in the South Coast area where reservoirs are used largely to regulate imported water supplies. The large reservoirs of the Sacramento Basin are holding about two thirds of the usual supplies.

| <b>SUMMARY OF WATER CONDITIONS</b> |                                       |                          |                      |                                |                                  |                                  |
|------------------------------------|---------------------------------------|--------------------------|----------------------|--------------------------------|----------------------------------|----------------------------------|
| <b>IN PERCENT OF AVERAGE</b>       |                                       |                          |                      |                                |                                  |                                  |
| HYDROGRAPHIC AREA                  | PRECIPITATION<br>OCTOBER 1<br>TO DATE | SNOW<br>WATER<br>CONTENT | RESERVOIR<br>STORAGE | OCTOBER 1<br>RUNOFF<br>TO DATE | APRIL-JULY<br>RUNOFF<br>FORECAST | WATER YEAR<br>RUNOFF<br>FORECAST |
| NORTH COAST                        | 60                                    | 75                       | 45                   | 30                             | 65                               | 55                               |
| SAN FRANCISCO BAY                  | 85                                    | --                       | 80                   | 30                             | --                               | --                               |
| CENTRAL COAST                      | 115                                   | --                       | 50                   | 60                             | --                               | --                               |
| SOUTH COAST                        | 125                                   | --                       | 110                  | 125                            | --                               | --                               |
| SACRAMENTO BASIN                   | 75                                    | 75                       | 65                   | 45                             | 60                               | 55                               |
| SAN JOAQUIN BASIN                  | 80                                    | 65                       | 65                   | 40                             | 65                               | 55                               |
| TULARE LAKE BASIN                  | 85                                    | 60                       | 45                   | 40                             | 55                               | 55                               |
| NORTH LAHONTAN                     | 55                                    | 55                       | 15                   | 50                             | 50                               | 50                               |
| SOUTH LAHONTAN                     | 120                                   | 60                       | 80                   | 55                             | 70                               | 65                               |
| COLORADO DESERT                    | 155                                   | --                       | --                   | --                             | --                               | --                               |
| <b>STATEWIDE</b>                   | 85                                    | 70                       | 65                   | 40                             | 60                               | 55                               |

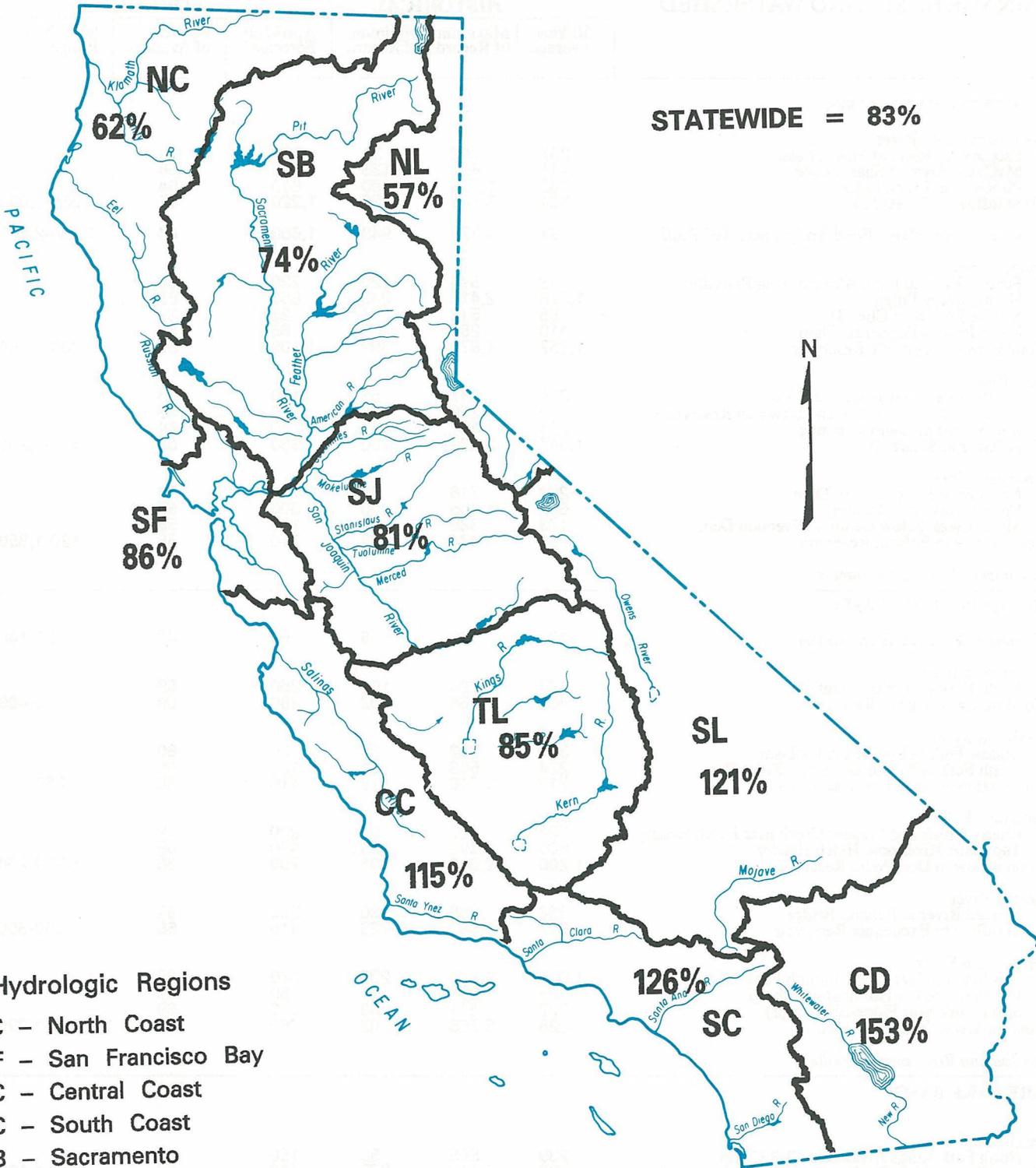
# FORECAST OF APRIL - JULY UNIMPAIRED SNOWMELT RUNOFF

MARCH 1, 1990



# SEASONAL PRECIPITATION IN PERCENT OF AVERAGE TO DATE

OCTOBER 1, 1991 TO FEBRUARY 29, 1992



### Hydrologic Regions

- NC - North Coast
- SF - San Francisco Bay
- CC - Central Coast
- SC - South Coast
- SB - Sacramento
- SJ - San Joaquin
- TL - Tulare Lake
- NL - North Lahontan
- SL - South Lahontan
- CD - Colorado Desert

WATER YEAR IS OCTOBER 1 THROUGH SEPTEMBER 30

**FORECASTS OF APRIL-JULY UNIMPAIRED RUNOFF  
FOR CENTRAL VALLEY STREAMS  
MARCH 1, 1992**

| DRAINAGE BASIN AND WATERSHED | April through July Unimpaired Runoff in 1,000 Acre-Feet |                      |                      |                        |                       |                    |
|------------------------------|---|----------------------|----------------------|------------------------|-----------------------|--------------------|
|                              | HISTORICAL  |                      |                      | FORECASTS              |                       |                    |
|                              | 50 Year<br>Average                                      | Maximum<br>of Record | Minimum<br>of Record | April-July<br>Forecast | Percent<br>of Average | 80% Prob.<br>Range |

**SACRAMENTO RIVER BASIN**

|  |       |       |     |       |    |             |
|--|-------|-------|-----|-------|----|-------------|
| Upper Sacramento River                             |       |       |     |       |    |             |
| Sacramento River at Shasta Lake                    | 297   | 702   | 39  | 220   | 74 |             |
| McCloud River at Shasta Lake                       | 411   | 850   | 185 | 270   | 66 |             |
| Pit River at Shasta Lake                           | 1,062 | 1,796 | 480 | 680   | 64 |             |
| Total inflow to Shasta Lake                        | 1,824 | 3,189 | 726 | 1,220 | 67 | 930-1,900   |
| Sacramento River above Bend Bridge, near Red Bluff | 2,491 | 4,674 | 943 | 1,600 | 64 | 1,250-2,600 |
| Feather River                                      |       |       |     |       |    |             |
| Feather River at Lake Almanor near Pratville       | 333   | 675   | 120 | 220   | 66 |             |
| North Fork at Pulga                                | 1,028 | 2,416 | 243 | 650   | 63 |             |
| Middle Fork near Clio (3)                          | 86    | 518   | 4   | 25    | 29 |             |
| South Fork at Ponderosa Dam                        | 110   | 267   | 13  | 65    | 59 |             |
| Total inflow to Oroville Reservoir                 | 1,857 | 4,676 | 392 | 1,100 | 59 | 700-1,950   |
| Yuba River   |       |       |     |       |    |             |
| North Yuba below Goodyears Bar                     | 286   | 647   | 51  | 180   | 63 |             |
| Inflow to Jackson Mdws and Bowman Reservoirs       | 112   | 236   | 25  | 70    | 63 |             |
| South Yuba at Langs Crossing                       | 233   | 481   | 57  | 150   | 64 |             |
| Yuba River at Smartville                           | 1,047 | 2,424 | 200 | 660   | 63 | 420-1,200   |
| American River                                     |       |       |     |       |    |             |
| North Fork at North Fork Dam                       | 262   | 716   | 43  | 140   | 53 |             |
| Middle Fork near Auburn                            | 522   | 1,406 | 100 | 300   | 57 |             |
| Silver Creek below Camino Diversion Dam            | 173   | 386   | 37  | 100   | 58 |             |
| Total inflow to Folsom Reservoir                   | 1,284 | 3,074 | 229 | 710   | 55 | 420-1,350   |

*Sacramento River at Sacramento*

**SAN JOAQUIN RIVER BASIN**

|  |       |       |     |     |    |           |
|--|-------|-------|-----|-----|----|-----------|
| Cosumnes River at Michigan Bar                   | 129   | 363   | 8   | 60  | 47 | 30-140    |
| Mokelumne River                                  |       |       |     |     |    |           |
| North Fork near West Point (4)                   | 437   | 829   | 104 | 260 | 59 |           |
| Total inflow to Pardee Reservoir                 | 465   | 1,065 | 102 | 280 | 60 | 190-460   |
| Stanislaus River                                 |       |       |     |     |    |           |
| Middle Fork below Beardsley Dam                  | 334   | 702   | 64  | 200 | 60 |           |
| North Fork inflow to aMcKay's Point Dam          | 224   | 503   | 34  | 125 | 56 |           |
| Total inflow to Melones Reservoir                | 713   | 1,710 | 116 | 410 | 58 | 250-660   |
| Tuolumne River                                   |       |       |     |     |    |           |
| Cherry Creek and Eleanor Creek near Hetch Hetchy | 322   | 727   | 97  | 200 | 62 |           |
| Tuolumne River near Hetch Hetchy                 | 606   | 1,392 | 153 | 420 | 69 |           |
| Total inflow to Don Pedro Reservoir              | 1,200 | 2,682 | 301 | 790 | 66 | 540-1,200 |
| Merced River                                     |       |       |     |     |    |           |
| Merced River at Pohono Bridge                    | 362   | 888   | 80  | 250 | 69 |           |
| Total inflow to Exchequer Reservoir              | 617   | 1,587 | 123 | 410 | 66 | 290-650   |
| San Joaquin River                                |       |       |     |     |    |           |
| San Joaquin River at Mammoth Pool (2)            | 1,014 | 2,279 | 235 | 660 | 65 |           |
| Big Creek below Huntington Lake (2)              | 95    | 264   | 11  | 60  | 63 |           |
| South Fork near Florence Lake (2)                | 202   | 511   | 58  | 140 | 69 |           |
| Total inflow to Millerton Lake                   | 1,228 | 3,355 | 262 | 780 | 64 | 500-1,230 |

*San Joaquin River near Vernalis*

**TULARE LAKE BASIN**

|  |       |       |     |     |    |           |
|--|-------|-------|-----|-----|----|-----------|
| Kings River                            |       |       |     |     |    |           |
| North Fork Kings River near Cliff Camp | 239   | 565   | 50  | 150 | 63 |           |
| Total inflow to Pine Flat Reservoir    | 1,203 | 3,114 | 273 | 710 | 59 | 470-1,100 |
| Kaweah River at Terminus Reservoir     | 284   | 814   | 61  | 160 | 56 | 110-280   |
| Tule River at Success Reservoir        | 63    | 256   | 2   | 24  | 38 | 15-55     |
| Kern River                             |       |       |     |     |    |           |
| Kern River near Kernville              | 373   | 1,203 | 83  | 200 | 54 |           |
| Total inflow to Isabella Reservoir     | 461   | 1,657 | 84  | 230 | 50 | 180-450   |

(1) All 50-year averages are based on data for water years 1941-1990 except:

(2) 45-year average based on years 1936-80.

(4) 36-year average based on years 1936-71.

(3) 44-year average based on years 1936-79.

(5) See inside back cover for definition of unimpaired runoff and 80 percent probability ranges.

**FORECASTS OF WATER YEAR UNIMPAIRED RUNOFF  
FOR CENTRAL VALLEY STREAMS  
MARCH 1, 1992**

| Water Year October through September Unimpaired Runoff in 1,000's Acre-Feet |                   |                   |                         |          |       |       |     |      |      |                      |                     |                    |
|---|-------------------|-------------------|-------------------------|----------|-------|-------|-----|------|------|----------------------|---------------------|--------------------|
| HISTORICAL  |                   |                   | DISTRIBUTION            |          |       |       |     |      |      |                      | FORECASTS           |                    |
| 50 Year Average   | Maximum of Record | Minimum of Record | October through January | February | March | April | May | June | July | August and September | Water Year Forecast | Percent of Average |
| 856   | 1,964             | 165               |                         |          |       |       |     |      |      |                      |                     |                    |
| 1,244   | 2,353             | 577               |                         |          |       |       |     |      |      |                      |                     |                    |
| 3,145   | 5,150             | 1,484             |                         |          |       |       |     |      |      |                      |                     |                    |
| 5,987   | 10,796            | 2,479             | 805                     | 760      | 600   | 450   | 330 | 240  | 200  | 335                  | 3,720               | 62                 |
| 8,664   | 17,180            | 3,294             | 1,080                   | 1,300    | 800   | 580   | 450 | 320  | 250  | 400                  | (3,200-4,900)       | 60                 |
|   |                   |                   |                         |          |       |       |     |      |      |                      | 5,180               |                    |
|   |                   |                   |                         |          |       |       |     |      |      |                      | (4,450-6,950)       |                    |
| 780   | 1,269             | 366               |                         |          |       |       |     |      |      |                      |                     |                    |
| 2,417   | 4,400             | 666               |                         |          |       |       |     |      |      |                      |                     |                    |
| 219   | 637               | 24                |                         |          |       |       |     |      |      |                      |                     |                    |
| 291   | 562               | 32                |                         |          |       |       |     |      |      |                      |                     |                    |
| 4,617   | 9,492             | 994               | 310                     | 380      | 430   | 460   | 370 | 170  | 100  | 130                  | 2,350               | 51                 |
|   |                   |                   |                         |          |       |       |     |      |      |                      | (1,740-3,500)       |                    |
| 564   | 1,056             | 102               |                         |          |       |       |     |      |      |                      |                     |                    |
| 181   | 292               | 30                |                         |          |       |       |     |      |      |                      |                     |                    |
| 379   | 565               | 98                |                         |          |       |       |     |      |      |                      |                     |                    |
| 2,390   | 4,926             | 369               | 120                     | 240      | 230   | 280   | 270 | 90   | 20   | 20                   | 1,270               | 53                 |
|   |                   |                   |                         |          |       |       |     |      |      |                      | (920-1,950)         |                    |
| 616   | 1,234             | 66                |                         |          |       |       |     |      |      |                      |                     |                    |
| 1,070   | 2,575             | 144               |                         |          |       |       |     |      |      |                      |                     |                    |
| 318   | 705               | 59                |                         |          |       |       |     |      |      |                      |                     |                    |
| 2,736   | 6,381             | 349               | 100                     | 230      | 250   | 330   | 270 | 90   | 20   | 10                   | 1,300               | 48                 |
|   |                   |                   |                         |          |       |       |     |      |      |                      | (910-2,100)         | 55                 |
| 385   | 1,253             | 20                | 7                       | 40       | 32    | 35    | 20  | 4    | 1    | 1                    | 140                 | 36                 |
|   |                   |                   |                         |          |       |       |     |      |      |                      | (90-260)            |                    |
| 626   | 1,009             | 197               |                         |          |       |       |     |      |      |                      |                     |                    |
| 748   | 1,800             | 129               | 32                      | 37       | 48    | 110   | 135 | 30   | 5    | 3                    | 400                 | 53                 |
|   |                   |                   |                         |          |       |       |     |      |      |                      | (300-600)           |                    |
| 471   | 929               | 88                |                         |          |       |       |     |      |      |                      |                     |                    |
| 1,150   | 2,952             | 155               | 58                      | 72       | 85    | 150   | 180 | 60   | 20   | 5                    | 630                 | 55                 |
|   |                   |                   |                         |          |       |       |     |      |      |                      | (430-930)           |                    |
| 461   | 1,147             | 123               |                         |          |       |       |     |      |      |                      |                     |                    |
| 770   | 1,661             | 258               |                         |          |       |       |     |      |      |                      |                     |                    |
| 1,882   | 4,430             | 383               | 83                      | 94       | 150   | 260   | 350 | 150  | 30   | 13                   | 1,130               | 60                 |
|   |                   |                   |                         |          |       |       |     |      |      |                      | (830-1,620)         |                    |
| 461   | 1,020             | 92                |                         |          |       |       |     |      |      |                      |                     |                    |
| 966   | 2,859             | 150               | 36                      | 54       | 80    | 140   | 180 | 70   | 20   | 10                   | 590                 | 61                 |
|   |                   |                   |                         |          |       |       |     |      |      |                      | (430-880)           |                    |
| 1,337   | 2,964             | 308               |                         |          |       |       |     |      |      |                      |                     |                    |
| 112   | 298               | 14                |                         |          |       |       |     |      |      |                      |                     |                    |
| 248   | 653               | 71                |                         |          |       |       |     |      |      |                      |                     |                    |
| 1,776   | 4,642             | 362               | 70                      | 70       | 110   | 200   | 320 | 200  | 60   | 30                   | 1,060               | 60                 |
|   |                   |                   |                         |          |       |       |     |      |      |                      | (730-1,600)         | 59                 |
| 284   | 607               | 58                |                         |          |       |       |     |      |      |                      |                     |                    |
| 1,669   | 4,294             | 383               | 70                      | 50       | 90    | 180   | 300 | 190  | 40   | 30                   | 950                 | 57                 |
|   |                   |                   |                         |          |       |       |     |      |      |                      | (670-1,400)         |                    |
| 444   | 1,402             | 92                | 19                      | 13       | 25    | 50    | 70  | 35   | 5    | 3                    | 220                 | 50                 |
|   |                   |                   |                         |          |       |       |     |      |      |                      | (150-360)           |                    |
| 145   | 615               | 16                | 6                       | 7        | 12    | 12    | 8   | 3    | 1    | 1                    | 50                  | 34                 |
|   |                   |                   |                         |          |       |       |     |      |      |                      | (30-100)            |                    |
| 558   | 1,577             | 163               |                         |          |       |       |     |      |      |                      |                     |                    |
| 717   | 2,309             | 175               | 45                      | 20       | 40    | 70    | 90  | 50   | 20   | 25                   | 360                 | 50                 |
|   |                   |                   |                         |          |       |       |     |      |      |                      | (280-640)           |                    |

\* Unimpaired runoff to date

**FORECASTS OF APRIL-JULY UNIMPAIRED RUNOFF FOR SELECTED CALIFORNIA  
STREAMS  
MARCH 1, 1992**

| DRAINAGE BASIN AND WATERSHED                    | April through July Unimpaired Runoff in 1,000 Acre-Feet |                   |                   |                     |                    |
|---|---|-------------------|-------------------|---------------------|--------------------|
|   | HISTORICAL  |                   |                   | FORECASTS           |                    |
|   | 50 Year Average <sup>(1)</sup>                          | Maximum of Record | Minimum of Record | April-July Forecast | Percent of Average |
| <b>NORTH COAST AREA</b>                         |   |                   |                   |                     |                    |
| Trinity River at Lewiston                       | 653   | 1,593             | 80                | 450                 | 69                 |
| Scott River at Ft. Jones                        | 200   | *                 | *                 | 120                 | 60                 |
| Upper Klamath Lake <sup>(1)(2)(5)</sup>         | 521   | 1,151             | 177               | 175                 | 34                 |
| <b>LAHONTAN AREA</b>                            |   |                   |                   |                     |                    |
| Truckee River, Lake Tahoe to Farad accretion    | 268   | 713               | 58                | 110                 | 41                 |
| Lake Tahoe Rise in feet (assuming gates closed) | 1.5   | 3.75              | 0.23              | 0.4                 | 27                 |
| East Carson River near Gardnerville             | 186   | 407               | 43                | 100                 | 54                 |
| West Carson River at Woodfords                  | 54  | 131               | 12                | 30                  | 56                 |
| East Walker River near Bridgeport               | 63  | 209               | 7                 | 24                  | 38                 |
| West Walker River near Coleville                | 148   | 330               | 35                | 90                  | 61                 |
| Owens River <sup>(3)</sup>                      | 233   | 579               | 96                | 160                 | 69                 |

(1)Forecast period of April-September

(2)Forecast by U.S. Soil Conservation Service, Portland, Or.

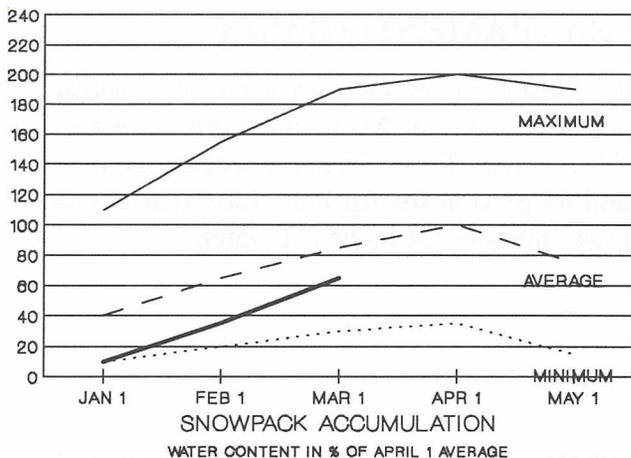
(3)Forecast by Dept. of Water and Power, City of Los Angeles

(4)Inside back cover for definition of unimpaired runoff.

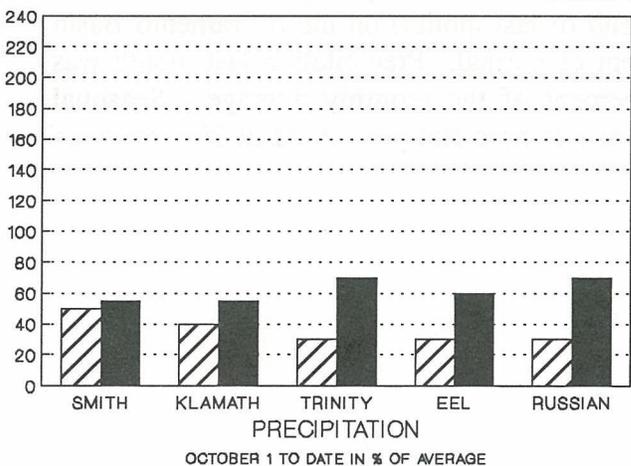
(5)Average period of 25 years

## NORTH COAST AREA

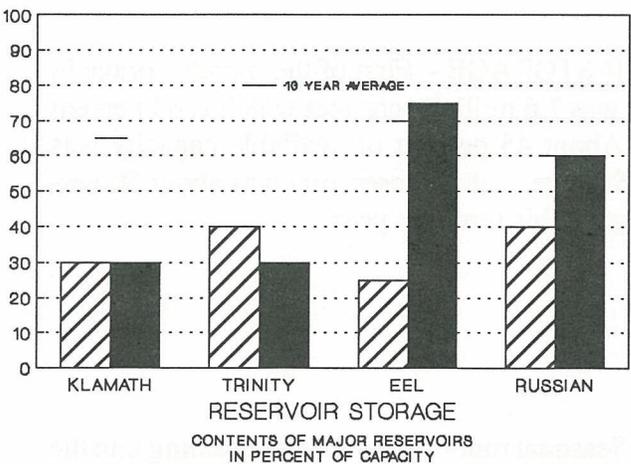
**SNOWPACK** - First of the month measurements made at 13 snow courses indicate an area wide snow water equivalent of 20.7 inches. This is percent of the 75 percent of the March 1 average and 65 percent of the seasonal (April 1) average. Last year at this time the pack was holding 5.2 inches of water.



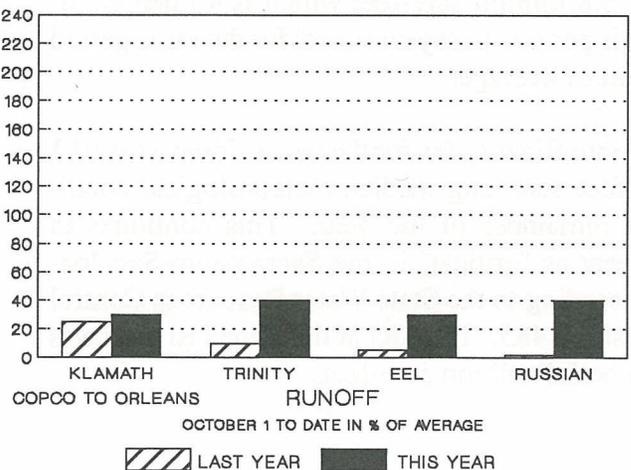
**PRECIPITATION** - Seasonal precipitation (October 1 through the end of last month) on this area was 60 percent of normal. Precipitation last month was about 120 percent of the monthly average. Seasonal precipitation at this time last year stood at 35 percent of normal.



**RESERVOIR STORAGE** - First of the month storage in 7 reservoirs was 1.1 million acre-feet which is 45 percent of average. About 35 percent of available capacity was being used. Storage in these reservoirs at this time last year was 55 percent of average.

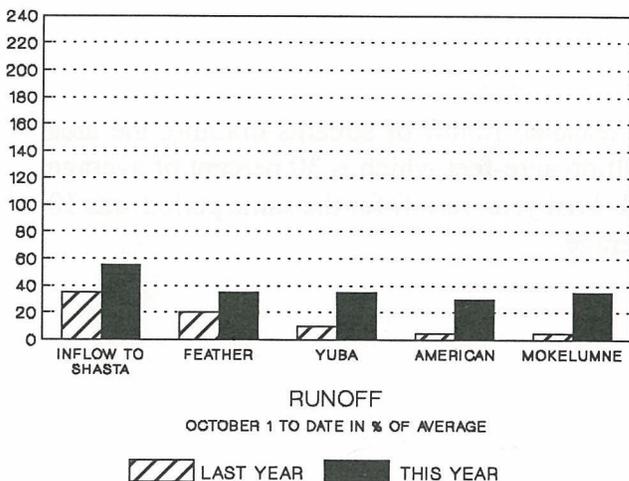
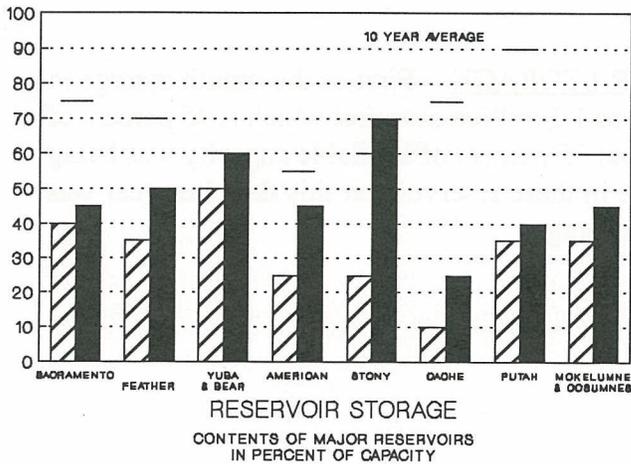
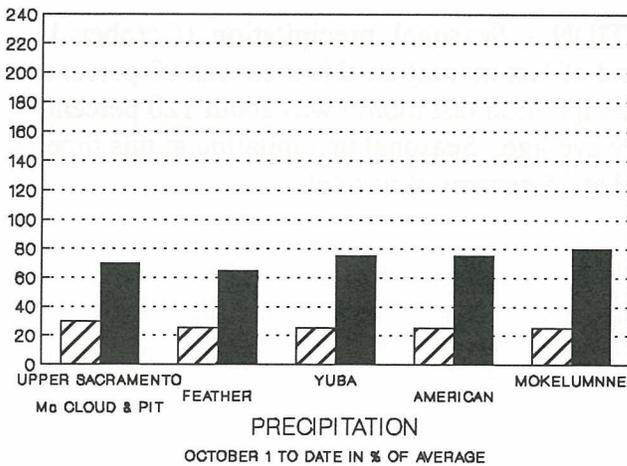
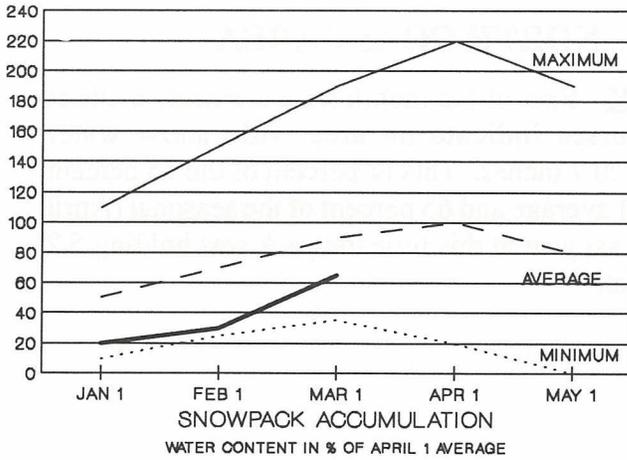


**RUNOFF** - Seasonal runoff of streams draining the area totaled 2.4 million acre-feet which is 30 percent of average for this period. Last year, runoff for the same period was 10 percent of average.



## SACRAMENTO BASIN

**SNOWPACK** - First of the month measurements made at 69 snow course indicate a basin-wide snow water equivalent of 22.3 inches. This is 75 percent of the average for this date and 65 percent for April 1. Last year at this time, the pack was holding 3.4 inches of water.



**PRECIPITATION** - Seasonal precipitation (October 1 through the end of last month) on the Sacramento Basin was 75 percent of normal. Precipitation last month was about 150 percent of the monthly average. Seasonal precipitation at this time last year stood at 30 percent of average.

**RESERVOIR STORAGE** - First of the month storage in 43 reservoirs was 7.6 million acre-feet which is 65 percent of average. About 45 percent of available capacity was being used. Storage in these reservoirs was about 50 percent of average at this time last year.

**RUNOFF** - Seasonal runoff from streams draining into the basin totaled 3.8 million acre-feet which is 45 percent of average for this period. Last year runoff for the same period was 20 percent of average.

The Sacramento River Index for the year is forecast at 10.1 million acre-feet assuming median meteorological conditions for the remainder of the year. This continues to classify the year as "critical" in the Sacramento-San Joaquin Delta according to the State Water Resources Control Board's Decision 1485. The SRI at this time last year was forecasted to be 5.5 million acre-feet.

## SAN JOAQUIN AND TULARE LAKE BASINS

**SNOWPACK** - First of the month measurements made at San Joaquin Basin snow courses indicate a basin wide snow water equivalent of 18.8 inches which is 65 percent of the seasonal (April 1) average. Last year at this time, the pack was holding 3.8 inches of water.

At the same time, 38 Tulare Lake Basin snow courses indicated a basin-wide snow water equivalent of 12.2 inches which is 60 percent of the average for this date and 55 percent of the seasonal average. Last year at this time, the Basin was holding 2.1 inches of water.

**PRECIPITATION** - Seasonal precipitation (October 1 through the end of last month) on the San Joaquin Basin was 80 percent of normal. Precipitation last month was 145 percent of the monthly average. Seasonal precipitation at this time last year stood at 30 percent of normal.

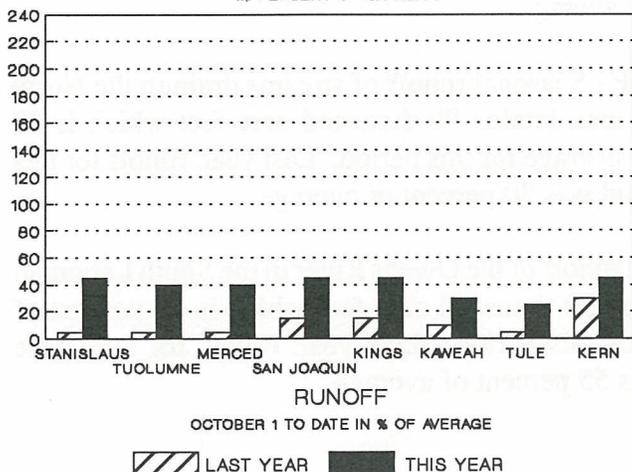
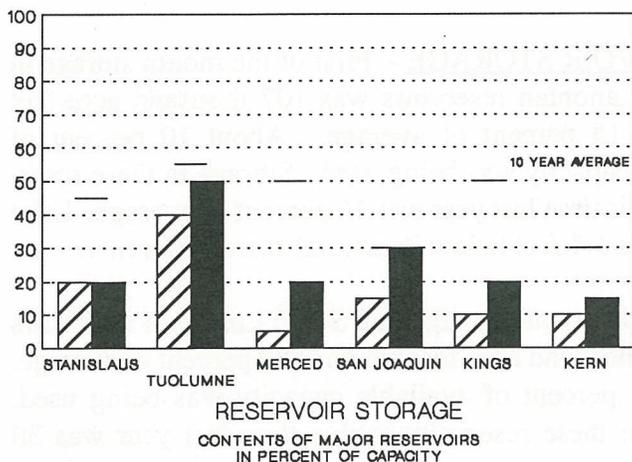
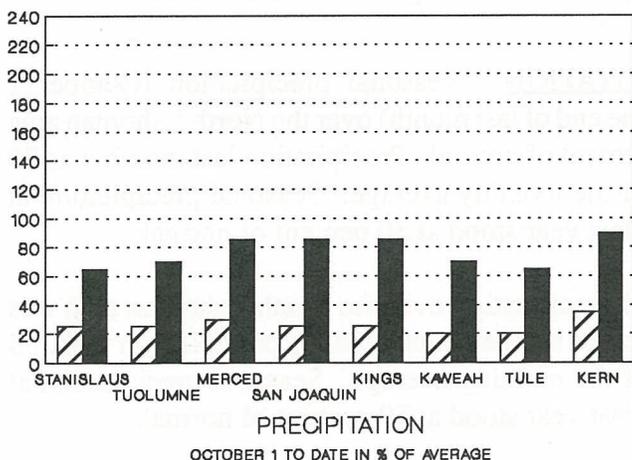
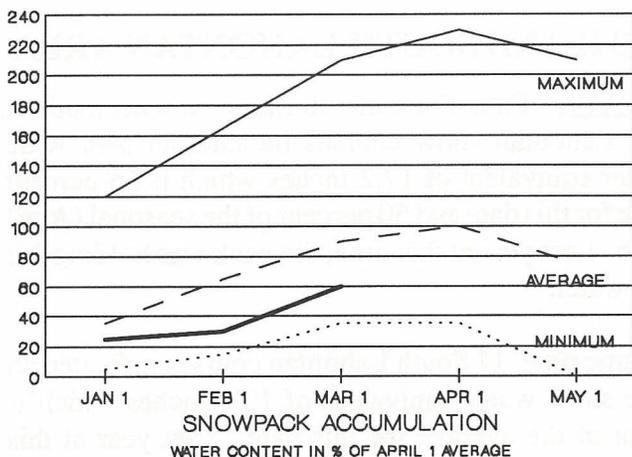
Seasonal precipitation on the Tulare Lake Basin was 85 percent of normal. Precipitation last month was 140 percent of the monthly average. Seasonal precipitation at this time last year stood at 30 percent of normal.

**RESERVOIR STORAGE** - First of the month storage in 33 San Joaquin Basin reservoirs was 4.5 million acre-feet which is 65 percent of average. About 40 percent of available capacity was being used. Storage in these reservoirs at this time last year was 45 percent of average.

First of the month storage in 6 Tulare Lake Basin reservoirs was 364 thousand acre-feet which is 45 percent of average. About 20 percent of available capacity was being used. Storage in these reservoirs at this time last year was 20 percent of average.

**RUNOFF** - Seasonal runoff of streams draining into the San Joaquin Basin totaled 651 thousand acre-feet which is 40 percent of average for this period. Last year, runoff for this same period was 5 percent of average.

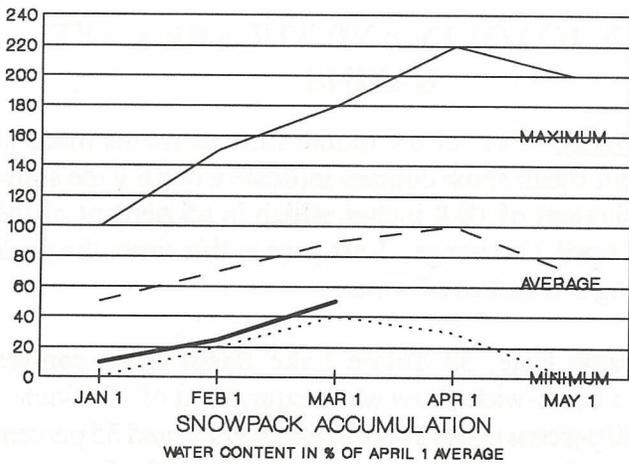
Seasonal runoff of streams draining into the Tulare Lake Basin totaled 237 thousand acre-feet which is 40 percent of average for this period. Last year, runoff for this same period was 20 percent of average.



## NORTH AND SOUTH LAHONTAN AREA

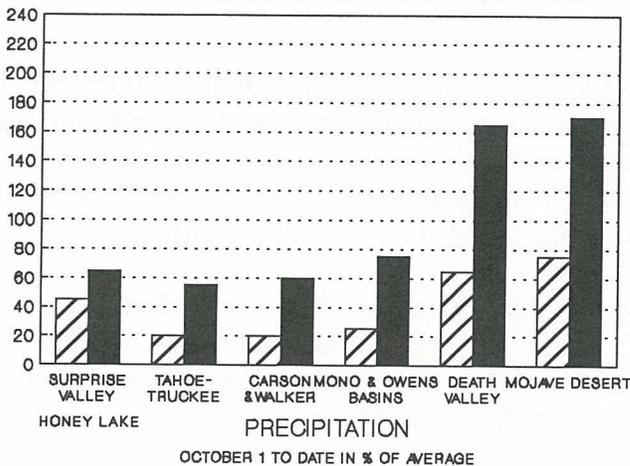
**SNOWPACK** - First of the month measurements made at 15 North Lahontan snow courses indicate an area wide snow water equivalent of 17.2 inches which is 55 percent of average for this date and 50 percent of the seasonal (April 1) average. Last year at this time, the pack was holding 3.2 inches of water.

At the same time, 17 South Lahontan courses indicated an area-wide snow water equivalent of 13.5 inches which is 60 percent of the average for this date. Last year at this time, the pack was holding 1.6 inches of water.



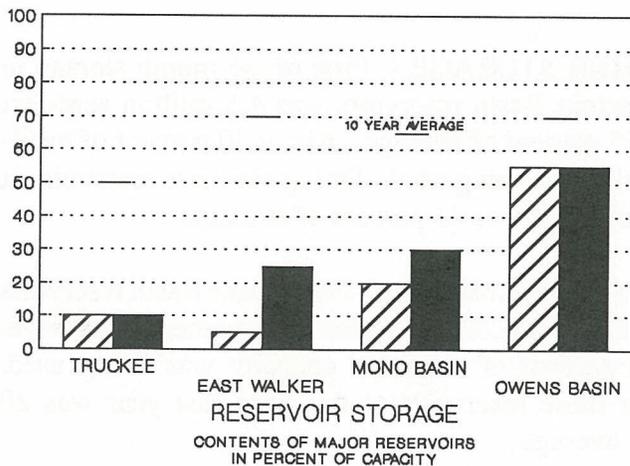
**PRECIPITATION** - Seasonal precipitation (October 1 through the end of last month) over the North Lahontan area was 55 percent of normal. Precipitation last month was 70 percent of the monthly average. Seasonal precipitation at this time last year stood at 30 percent of normal.

Seasonal precipitation over the South Lahontan area was 120 percent of normal. Last month's precipitation was 235 percent of the monthly average. Seasonal precipitation at this time last year stood at 50 percent of normal.



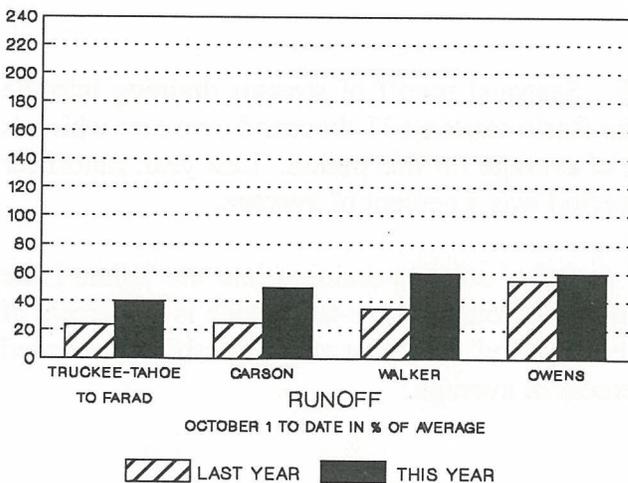
**RESERVOIR STORAGE** - First of the month storage in 5 North Lahontan reservoirs was 107 thousand acre-feet which is 15 percent of average. About 10 percent of available capacity was being used. Storage in these reservoirs at this time last year was 15 percent of average. Lake Tahoe was 1.4 feet below its natural rim on March 1.

First of the month storage in 8 South Lahontan reservoirs was 236 thousand acre-feet which is 80 percent of average. About 60 percent of available capacity was being used. Storage in these reservoirs at this time last year was 30 percent of average.



**RUNOFF** - Seasonal runoff of streams draining the North Lahontan area totaled 99 thousand acre-feet which is 50 percent of average for this period. Last year, runoff for this same period was 30 percent of average.

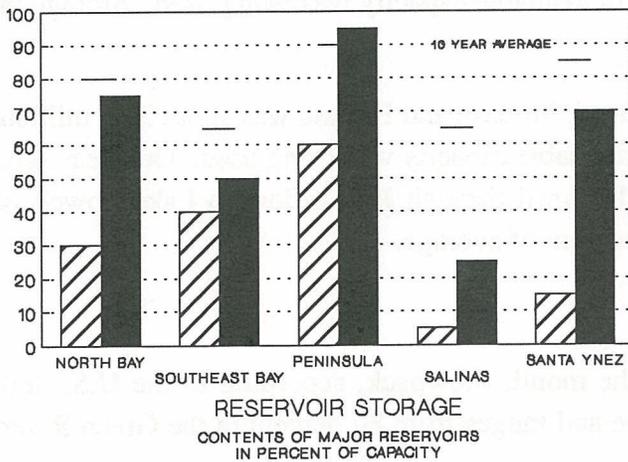
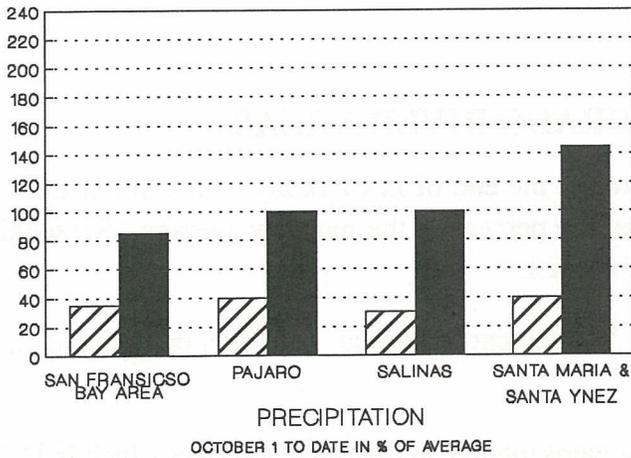
Seasonal runoff of the Owens River in the South Lahontan area totaled 30 thousand acre-feet which is 60 percent of average for this period. Last year, runoff for this same period was 55 percent of average.



## SAN FRANCISCO AND CENTRAL COAST AREAS

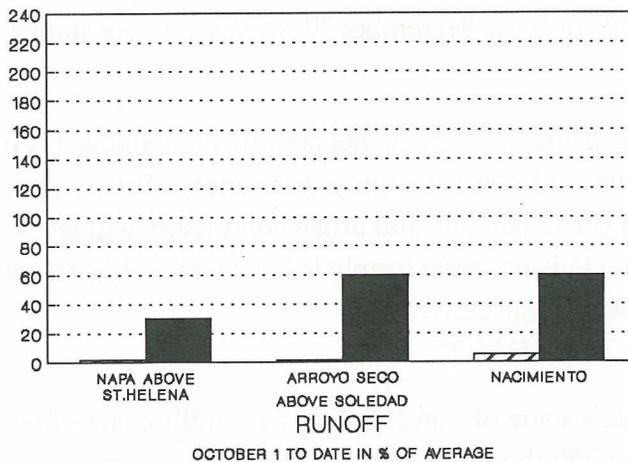
**PRECIPITATION** - Seasonal precipitation (October 1 through the end of last month) on the San Francisco Bay area was 85 percent of normal. Precipitation last month was 195 percent of the monthly average. Seasonal precipitation at this time last year stood at 35 percent of normal.

Seasonal precipitation on the Central Coast area averaged 115 percent of normal. Precipitation last month was 225 percent of the monthly average. Seasonal precipitation at this time last year stood at 35 percent of normal.



**RESERVOIR STORAGE** - First of the month storage in 18 major Bay area reservoirs was 409 thousand acre-feet which is 80 percent of average. About 60 percent of available capacity was being used. Storage in these reservoirs at this time last year was 55 percent of average.

First of the month storage in 6 major Central Coast reservoirs was 330 thousand acre-feet which is 50 percent of average. About 35 percent of available capacity was being used. Storage in these reservoirs at this time last year was 15 percent of average.



**RUNOFF** - Seasonal runoff of the Napa River in the San Francisco Bay area totaled 14 thousand acre-feet which is 30 percent of average for this period. Last year, runoff for this same period was less than 5 percent of average.

Seasonal runoff of selected Central Coast streams totaled 131 thousand acre-feet which is 60 percent of average for this period. Last year, runoff for this same period was less than 5 percent of average.

▨ LAST YEAR    ■ THIS YEAR

## **SOUTH COAST AND COLORADO RIVER AREAS**

**PRECIPITATION** - Seasonal precipitation (October through the end of last month) on the South Coast was 125 percent of normal. February precipitation was 240 percent of the monthly average. Seasonal precipitation at this time last year stood at 45 percent of normal.

Seasonal precipitation in the Colorado Desert area was 155 percent of normal. Seasonal precipitation at this time last year was 85 percent of the average.

**RUNOFF** - Seasonal runoff from selected South Coast streams totaled 38 thousand acre-feet which is 125 percent of average. Last year, runoff for the same period was 10 percent of average.

**RESERVOIR STORAGE** - March 1 storage in 29 major South Coast area reservoirs was 1.4 million acre-feet or 110 percent of average. About 75 percent of available capacity was being used. Storage in these reservoirs at this time last year was 90 of average.

First of the month combined storage in Lakes Powell, Mead, Mohave and Havasu was about 36.6 million acre-feet which is nearly average. About 70 percent of available capacity was being used. One year ago, these reservoirs were storing 37.6 million acre-feet. The April through July inflow to Lake Powell is forecasted to be 5.5 million acre-feet which will be 68 percent of average.

**UPPER COLORADO RIVER BASIN** - The first of the month snowpack, according to the U.S. Soil Conservation Service reports was 80 percent of average and ranges from 80 percent in the Green River Basin to 100 percent in the Upper San Miguel.

### **CENTRAL VALLEY PROJECT**

Due to the heavy amounts of precipitation during February, water year forecasts for runoff into CVP reservoirs now range from 48 to 68 percent of average. As of February 29, 1992, CVP storage was 4.4 million acre-feet which is an increase of 1.1 million acre-feet over the September 30, 1991 carryover storage and is approximately 60 percent of normal for this date.

On the basis of the March 1 conditions, the CVP announced a revision in the declaration of available CVP water supplies. Agricultural contractors will now receive a 15 percent supply, Sacramento River water rights holders and San Joaquin exchange contractors will get 75 percent, and urban contractors will get 50 percent in addition to hardship considerations. The Friant Division water supply is increased to 82 percent Class 1, 0 percent Class II, which is 44 percent of historic average deliveries.

### **STATE WATER PROJECT**

On March 1, conservation storage (Oroville plus the State's share of San Luis) was 2.2 million acre-feet, or almost 50 percent of capacity. The SWP also has about 250 thousand acre-feet in groundwater storage south of the Delta. Initial delivery approvals to SWP contractors of 20 percent were made in December, 1991. An assessment is being made of the improved water supply in hopes of increasing current water delivery allocations.

## MAJOR WATER DISTRIBUTION PROJECTS

### RESERVOIR STORAGE

(AVERAGES BASED ON PERIOD RECORD)

| RESERVOIR   | CAPACITY<br>1,000 AF | AVERAGE<br>STORAGE<br>1,000 AF | STORAGE AS OF FEBRUARY 29 |                             | PERCENT |
|---|----------------------|--------------------------------|---------------------------|-----------------------------|---------|
|   |                      |                                | 1991<br>1,000 AF          | 1992<br>AVERAGE<br>1,000 AF |         |
| <b><u>STATE WATER PROJECT</u></b>                 |                      |                                |                           |                             |         |
| Oroville  | 3,540                | 2,660                          | 938                       | 1,535                       | 58      |
| San Luis SWP                                      | 1,060                | 940                            | 94                        | 695                         | 74      |
| Lake Del Valle                                    | 77                   | 33                             | 37                        | 34                          | 102     |
| Silverwood  | 73                   | 66                             | 67                        | 71                          | 107     |
| Pyramid Lake                                      | 171                  | 162                            | 167                       | 162                         | 100     |
| Castaic Lake                                      | 324                  | 263                            | 168                       | 310                         | 118     |
| Perris Reservoir                                  | 132                  | 114                            | 125                       | 125                         | 109     |
| <b><u>CENTRAL VALLEY PROJECT</u></b>              |                      |                                |                           |                             |         |
| Clair Engle Lake                                  | 2,450                | 1,939                          | 961                       | 684                         | 35      |
| Shasta Lake                                       | 4,550                | 3,446                          | 1,543                     | 1,966                       | 57      |
| Whiskeytown                                       | 241                  | 208                            | 187                       | 209                         | 101     |
| Folsom  | 975                  | 590                            | 167                       | 502                         | 85      |
| New Melones                                       | 2,420                | 1,669                          | 373                       | 374                         | 22      |
| Millerton Lake                                    | 521                  | 309                            | 183                       | 283                         | 92      |
| San Luis CVP                                      | 980                  | 767                            | 588                       | 698                         | 91      |
| <b><u>COLORADO RIVER PROJECT</u></b>              |                      |                                |                           |                             |         |
| Lake Mead   | 26,300               | 19,709                         | 20,149                    | 20,065                      | 101     |
| Lake Powell                                       | 25,000               | 15,070                         | 15,241                    | 13,745                      | 91      |
| Lake Mojave                                       | 1,810                | 1,639                          | 1,703                     | 1,654                       | 101     |
| Lake Havasu                                       | 619                  | 537                            | 552                       | 549                         | 102     |
| <b><u>EAST BAY MUNICIPAL UTILITY DISTRICT</u></b> |                      |                                |                           |                             |         |
| Pardee  | 210                  | 177                            | 137                       | 200                         | 113     |
| Camanche  | 432                  | 263                            | 140                       | 126                         | 48      |
| East Bay (4 reservoirs)                           | 151                  | 129                            | 123                       | 123                         | 95      |
| <b><u>CITY &amp; COUNTY OF SAN FRANCISCO</u></b>  |                      |                                |                           |                             |         |
| Hetch Hetchy                                      | 360                  | 133                            | 25                        | 125                         | 94      |
| Cherry Lake                                       | 269                  | 105                            | 27                        | 94                          | 90      |
| Lake Eleanor                                      | 28                   | 10                             | 1                         | 3                           | 30      |
| South Bay (4 reservoirs)                          | 223                  | 172                            | 78                        | 144                         | 84      |
| <b><u>CITY OF LOS ANGELES(DWP)</u></b>            |                      |                                |                           |                             |         |
| Crowley Lake(Long Valley)                         | 183                  | 122                            | 103                       | 118                         | 97      |
| Grant Lake  | 48                   | 23                             | 11                        | 16                          | 51      |
| Other Aqueduct Storage(6 reservoirs)              | 95                   | 70                             | 71                        | 52                          | 107     |

DEPARTMENT OF WATER RESOURCES - CALIFORNIA DATA EXCHANGE CENTER  
TELEMETERED SNOW WATER EQUIVALENTS - FEBRUARY 28, 1992

| BASIN NAME<br>STATION NAME | AGENCY | ELEV<br>FEET | APR 1<br>AVG | TODAY | INCHES OF WATER EQUIVALENT<br>PERCENT<br>OF APR 1 | 24 HRS<br>AGO | 1 WEEK<br>AGO |
|----------------------------|--------|--------------|--------------|-------|---|---------------|---------------|
| TRINITY RIVER              |        |              |              |       |   |               |               |
| PETERSON FLAT              | USBR   | 7150         | ----         | 22.4  | ----  | 22.3          | 21.8          |
| RED ROCK MOUNTAIN          | USBR   | 6700         | 39.6         | 37.2  | 94%   | 37.2          | 36.6          |
| BONANZA KING               | USBR   | 6450         | 40.5         | 28.7  | 71%   | 29.1          | 28.4          |
| SHIMMY LAKE                | USBR   | 6200         | 40.3         | ----  | ----  | 38.6          | 38.6          |
| MIDDLE BOULDER #3          | USBR   | 6200         | 28.3         | 22.9  | 81%   | ----          | 24.2          |
| HIGHLAND LAKES             | USBR   | 6030         | 29.9         | ----  | ----  | 38.6          | 38.3          |
| SCOTTS MOUNTAIN            | USBR   | 5900         | ----         | 20.9  | ----  | ----          | 19.9          |
| MUMBO BASIN                | USBR   | 5700         | 22.4         | 20.4  | 91%   | 20.6          | 20.5          |
| BIG FLAT                   | USBR   | 5100         | ----         | 13.2  | ----  | 13.2          | 13.4          |
| SACRAMENTO RIVER           |        |              |              |       |   |               |               |
| CEDAR PASS                 | SCS    | 7100         | 18.1         | 6.4   | 35%   | 6.5           | 6.2           |
| BLACKS MOUNTAIN            | DWR    | 7100         | ----         | 6.7   | ----  | 6.7           | 7.0           |
| SAND FLAT                  | USBR   | 6750         | 42.4         | 27.6  | 65%   | ----          | ----          |
| MEDICINE LAKE              | USBR   | 6700         | ----         | 14.4  | ----  | 14.3          | 13.2          |
| ADIN MOUNTAIN              | SCS    | 6350         | 13.6         | 5.3   | 39%   | 5.2           | 4.4           |
| SNOW MOUNTAIN              | USBR   | 5950         | 27.0         | 16.5  | 61%   | 16.7          | 17.7          |
| SLATE CREEK                | USBR   | 5600         | 29.0         | ----  | ----  | ----          | ----          |
| STOUTS MEADOW              | USBR   | 5400         | 36.0         | 28.9  | 80%   | ----          | 28.3          |
| FEATHER RIVER              |        |              |              |       |   |               |               |
| KETTLEROCK                 | DWR    | 7300         | 25.5         | 11.8  | 46%   | 12.1          | 12.4          |
| GRIZZLY                    | DWR    | 6900         | 29.7         | 13.2  | 44%   | 13.6          | 13.8          |
| PILOT PEAK                 | DWR    | 6800         | 52.6         | 19.4  | 37%   | 19.6          | 20.6          |
| GOLD LAKE                  | DWR    | 6750         | 36.5         | 22.0  | 60%   | 22.0          | 21.6          |
| HUMBUG                     | DWR    | 6500         | 28.0         | 26.3  | 94%   | 26.4          | 28.0          |
| RATTLESNAKE                | DWR    | 6100         | 14.0         | 12.6  | 90%   | 12.7          | 13.4          |
| BUCKS LAKE                 | DWR    | 5750         | 44.7         | 36.8  | 82%   | 37.0          | 36.8          |
| FOUR TREES                 | DWR    | 5150         | 20.0         | 23.9  | 119%  | 24.0          | 25.8          |
| YUBA & AMERICAN RIV        |        |              |              |       |   |               |               |
| LAKE LOIS                  | DWR    | 8800         | ----         | 28.1  | ----  | 26.8          | 27.5          |
| SCHNEIDERS                 | SMUD   | 8750         | 34.5         | 19.8  | 57%   | 19.8          | ----          |
| CAPLES LAKE COURSE         | USBR   | 7800         | 30.9         | 13.8  | 45%   | 13.9          | 14.4          |
| ALPHA                      | SMUD   | 7600         | 35.9         | 19.2  | 53%   | 19.3          | 19.6          |
| BETA                       | DWR    | 7600         | ----         | 15.1  | ----  | 15.1          | 15.2          |
| FORNI RIDGE                | USBR   | 7600         | 37.0         | 9.9   | 27%   | 9.9           | 9.6           |
| SILVER LAKE                | USBR   | 7100         | 22.7         | 11.2  | 49%   | 11.4          | 11.6          |
| CENT SIERRA SNOW LAB       | USFS   | 6950         | 33.6         | 17.3  | 51%   | 17.5          | 18.2          |
| HUYSINK                    | USBR   | 6600         | 42.6         | 17.5  | 41%   | 17.5          | 17.5          |
| VAN VLECK                  | SMUD   | 6700         | 35.9         | 18.6  | 52%   | 18.7          | 19.1          |
| ROBBS SADDLE               | SMUD   | 5900         | 21.4         | 14.6  | 68%   | 14.8          | 15.6          |
| GREEK STORE                | USBR   | 5600         | 21.0         | 19.7  | 94%   | 20.3          | 20.9          |
| BLUE CANYON                | USBR   | 5280         | 9.0          | .0    | 0%  | .0            | 2.6           |
| ROBBS POWERHOUSE           | SMUD   | 5150         | 5.2          | 5.7   | 110%  | 6.0           | 7.7           |
| MOKEL. & STANIS. RIV       |        |              |              |       |   |               |               |
| DEADMAN CREEK              | USBR   | 9250         | 37.2         | 15.0  | 40%   | 14.9          | 14.0          |
| HIGHLAND MEADOW            | USBR   | 8800         | 47.9         | ----  | ----  | 26.0          | 25.2          |
| GIANELLI MEADOW            | USBR   | 8350         | 55.5         | 23.8  | 43%   | 23.8          | 23.0          |
| LOWER RELIEF VALLEY        | DWR    | 8100         | 41.2         | 21.0  | 51%   | 21.2          | 21.0          |
| BLUE LAKES                 | SCS    | 8000         | 33.1         | 17.7  | 53%   | 17.7          | 17.0          |
| MUD LAKE                   | SMUD   | 7900         | 44.9         | 27.2  | 61%   | 27.2          | 27.5          |
| STANISLAUS MEADOW          | USBR   | 7750         | 47.5         | 22.3  | 47%   | 22.3          | 21.6          |
| BLOODS CREEK               | USBR   | 7200         | 35.5         | 17.3  | 49%   | 17.3          | 16.9          |
| BLACK SPRINGS              | USBR   | 6500         | 32.0         | 17.9  | 56%   | 17.9          | 17.9          |
| TUOLUMNE & MERCED R.       |        |              |              |       |   |               |               |
| DANA MEADOWS               | DWR    | 9800         | 27.7         | 15.8  | 57%   | 15.8          | 15.8          |
| SLIDE CANYON               | DWR    | 9200         | ----         | 19.0  | ----  | 20.0          | 19.2          |
| SNOW FLAT                  | DWR    | 8700         | 44.1         | 22.9  | 52%   | 22.8          | 23.5          |
| TUOLUMNE MEADOWS           | DWR    | 8600         | 22.6         | 9.1   | 40%   | 9.1           | 8.6           |
| HORSE MEADOW               | DWR    | 8400         | 48.6         | 22.9  | 47%   | 22.9          | 21.0          |
| OSTRANDER LAKE             | DWR    | 8200         | 34.8         | 19.6  | 56%   | 19.6          | 19.6          |
| PARADISE                   | DWR    | 7650         | ----         | 18.0  | ----  | 18.7          | 20.0          |
| GIN FLAT                   | DWR    | 7050         | 34.2         | 17.3  | 51%   | 17.5          | 18.7          |
| LOWER KIBBIE               | DWR    | 6600         | 27.4         | 14.1  | 51%   | 14.1          | 15.1          |
| SAN JOAQUIN RIVER          |        |              |              |       |   |               |               |
| VOLCANIC KNOB              | USBR   | 10100        | 30.1         | 15.0  | 50%   | 15.0          | 14.4          |
| AGNEW PASS                 | USBR   | 9450         | 32.3         | 16.3  | 50%   | 16.3          | 16.3          |
| KAISER POINT               | USBR   | 9200         | 37.8         | 18.3  | 48%   | 18.3          | 17.1          |
| GREEN MOUNTAIN             | USBR   | 7900         | 30.8         | 16.5  | 54%   | 16.5          | 16.5          |

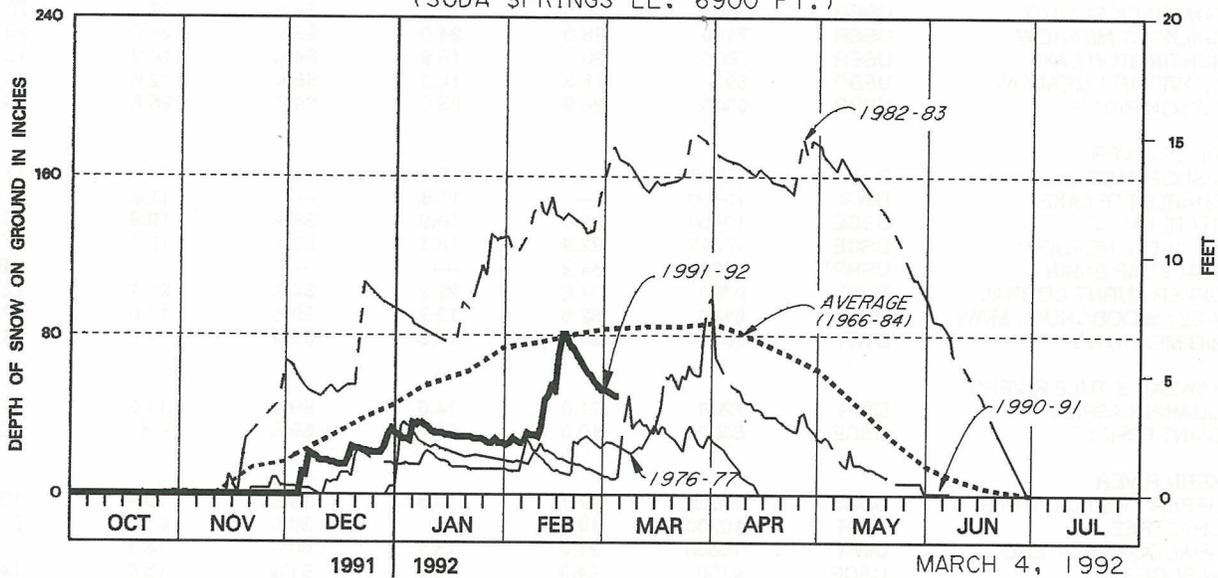
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TELEMETERED SNOW WATER EQUIVALENTS - FEBRUARY 28, 1992

| BASIN NAME<br>STATION NAME | AGENCY | ELEV<br>FEET | APR 1<br>AVG | TODAY | INCHES OF WATER EQUIVALENT |               |               |
|----------------------------|--------|--------------|--------------|-------|----------------------------|---------------|---------------|
|                            |        |              |              |       | PERCENT<br>OF APR 1        | 24 HRS<br>AGO | 1 WEEK<br>AGO |
| TAMARACK SUMMIT            | USBR   | 7600         | 30.5         | 20.7  | 68%                        | 20.7          | 20.7          |
| CHILKOOT MEADOW            | USBR   | 7150         | 38.0         | 24.0  | 63%                        | 24.0          | 24.0          |
| HUNTINGTON LAKE            | USBR   | 7000         | 20.1         | 16.9  | 84%                        | 16.9          | 16.9          |
| GRAVEYARD MEADOW           | USBR   | 6900         | 18.8         | 12.2  | 65%                        | 12.6          | 13.2          |
| POISON RIDGE               | USBR   | 6900         | 28.9         | 25.6  | 89%                        | 25.8          | 26.8          |
|                            |        |              |              |       |                            |               |               |
| KINGS RIVER                |        |              |              |       |                            |               |               |
| BISHOP PASS                | DWR    | 11200        | ----         | 12.4  | ----                       | 13.7          | 13.1          |
| CHARLOTTE LAKE             | DWR    | 10400        | ----         | 11.8  | ----                       | 11.6          | 11.2          |
| STATE LAKES                | USCE   | 10400        | 29.0         | 10.9  | 38%                        | 10.9          | 10.0          |
| MITCHELL MEADOW            | USCE   | 10375        | 32.9         | 18.1  | 55%                        | 18.1          | 17.8          |
| BLACKCAP BASIN             | USBR   | 10300        | 34.3         | ----  | ----                       | ----          | 4.6           |
| UPPER BURNT CORRAL         | DWR    | 9700         | 34.6         | 22.2  | 64%                        | 22.2          | 22.2          |
| WEST WOODCHUCK MDW         | USCE   | 9100         | 32.8         | 12.7  | 39%                        | 12.6          | 12.2          |
| BIG MEADOWS                | DWR    | 7600         | 25.9         | 14.5  | 56%                        | 14.5          | 14.6          |
|                            |        |              |              |       |                            |               |               |
| KAWEAH & TULE RIVERS       |        |              |              |       |                            |               |               |
| QUAKING ASPEN              | DWR    | 7200         | 21.0         | 14.5  | 69%                        | 14.6          | 14.6          |
| GIANT FOREST               | USCE   | 6400         | 10.0         | 5.9   | 59%                        | 6.4           | 7.2           |
|                            |        |              |              |       |                            |               |               |
| KERN RIVER                 |        |              |              |       |                            |               |               |
| UPPER TYNDALL CREEK        | USCE   | 11500        | 27.7         | 10.4  | 38%                        | 10.4          | 10.4          |
| CRABTREE                   | DWR    | 10700        | 19.8         | 6.0   | 30%                        | 6.0           | 5.8           |
| CHAGOOPA PLATEAU           | DWR    | 10300        | 21.8         | 13.1  | 60%                        | 13.1          | 13.1          |
| PASCOES                    | USCE   | 9150         | 24.9         | 15.2  | 61%                        | 15.0          | 14.8          |
| TUNNEL                     | DWR    | 8950         | 15.6         | 6.2   | 40%                        | 6.2           | 6.4           |
| WET MEADOW                 | USCE   | 8900         | 30.3         | 15.3  | 50%                        | 15.4          | 15.5          |
| CASA VIEJA MDW             | DWR    | 8400         | 20.9         | 11.1  | 53%                        | 11.1          | 11.1          |
| BEACH MEADOW               | DWR    | 7650         | 11.0         | ----  | ----                       | ----          | .0            |
|                            |        |              |              |       |                            |               |               |
| SURPRISE VALLEY AREA       |        |              |              |       |                            |               |               |
| DISMAL SWAMP               | SCS    | 7050         | 29.2         | 11.7  | 40%                        | 11.9          | 12.1          |
|                            |        |              |              |       |                            |               |               |
| TRUCKEE RIVER              |        |              |              |       |                            |               |               |
| MOUNT ROSE SKI AREA        | SCS    | 8850         | 38.5         | 18.4  | 48%                        | 18.4          | 18.1          |
| INDEPENDENCE LAKE          | SCS    | 8450         | 41.4         | 18.1  | 44%                        | 18.1          | 18.1          |
| BIG MEADOWS                | SCS    | 8700         | 25.7         | 7.1   | 28%                        | 7.2           | 7.0           |
| INDEPENDENCE CAMP          | SCS    | 6500         | 21.8         | 10.1  | 46%                        | 10.2          | 10.0          |
| INDEPENDENCE CREEK         | SCS    | 6500         | 12.7         | 6.9   | 54%                        | 7.0           | 7.0           |
|                            |        |              |              |       |                            |               |               |
| LAKE TAHOE BASIN           |        |              |              |       |                            |               |               |
| HEAVENLY VALLEY            | SCS    | 8800         | 28.1         | 12.3  | 44%                        | 12.5          | 12.7          |
| HAGANS MEADOW              | SCS    | 8000         | 16.5         | 5.4   | 33%                        | 5.7           | 6.5           |
| MARLETTE LAKE              | SCS    | 8000         | 21.1         | 9.4   | 45%                        | 9.4           | 9.2           |
| ECHO PEAK                  | SCS    | 7800         | 39.5         | 21.3  | 54%                        | 21.3          | 21.2          |
| RUBICON NO. 2              | SCS    | 7500         | 29.1         | 10.0  | 34%                        | 10.0          | ----          |
| WARD CREEK NO. 3           | SCS    | 6750         | 39.4         | 14.4  | 37%                        | 14.6          | ----          |
| FALLEN LEAF LAKE           | SCS    | 6300         | 7.0          | .9    | 13%                        | 1.1           | 3.0           |
|                            |        |              |              |       |                            |               |               |
| CARSON RIVER               |        |              |              |       |                            |               |               |
| EBBETTS PASS               | SCS    | 8700         | 38.8         | 18.5  | 48%                        | 18.5          | 17.9          |
| POISON FLAT                | SCS    | 7900         | 16.2         | 9.4   | 58%                        | 9.6           | 10.0          |
|                            |        |              |              |       |                            |               |               |
| WALKER RIVER               |        |              |              |       |                            |               |               |
| VIRGINIA LAKES RIDGE       | SCS    | 9200         | 20.3         | 8.4   | 41%                        | 8.4           | 8.5           |
| LOBDELL LAKE               | SCS    | 9200         | 17.3         | 9.7   | 56%                        | 9.7           | 9.6           |
| SONORA PASS BRIDGE         | SCS    | 8750         | 26.0         | 13.5  | 52%                        | 13.5          | 13.5          |
| LEAVITT MEADOWS            | SCS    | 7200         | 8.0          | 5.3   | 66%                        | 5.4           | 5.9           |
|                            |        |              |              |       |                            |               |               |
| OWENS RIVER/MONO LK.       |        |              |              |       |                            |               |               |
| GEM PASS                   | LADWP  | 10750        | 31.7         | 18.9  | 60%                        | 18.9          | 18.3          |
| SAWMILL MEADOW             | DWR    | 10300        | 19.4         | 11.1  | 57%                        | 11.1          | 10.4          |
| COTTONWOOD LAKES           | LADWP  | 10200        | 11.6         | 7.7   | 66%                        | 7.8           | 7.4           |
| BIG PINE #3                | LADWP  | 9800         | 17.9         | 7.2   | 40%                        | 7.2           | 6.6           |
| SOUTH LAKE                 | LADWP  | 9600         | 16.0         | 6.0   | 38%                        | 6.0           | 5.9           |
| MAMMOTH PASS (RP)          | USBR   | 9500         | 42.4         | 21.3  | 50%                        | 21.3          | 20.9          |
| MAMMOTH PASS-6 TANKS       | USBR   | 9500         | ----         | 18.7  | ----                       | 18.7          | 18.3          |
| ROCK CREEK                 | LADWP  | 8200         | ----         | 5.8   | ----                       | 5.5           | 5.5           |

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  |

**SNOW DEPTH AT CENTRAL SIERRA SNOW LAB.**  
(SODA SPRINGS EL. 6900 FT.)



DATA SOURCE: CENTRAL SIERRA SNOW LAB.

\*\*\*\*\* SNOWLINES \*\*\*\*\*

**Water Supply Production and Consumption** - The disparity between California's water supply production and water use areas is graphically illustrated by these figures:

The North Coast produces 40 percent of the State's runoff yet it accounts for only 2 percent of our agricultural use and only 3 percent of our urban consumption.

The South Coast produces just 2 percent of our runoff and accounts for 50 percent of our urban water use and 3 percent of our agricultural water use.

**California Snowfall** - California snowfall can be pretty impressive when compared with similar records for the United States and North America. For example, the greatest 24 hour snowfall in California was 67.0 inches at the Sierra Ski Ranch on January 5, 1982. This is just 8.8 inches under the North American record which occurred at Silver Lake, Colorado on April 14-15, 1921. Record one month snowfall in North America, 390.0 inches was experienced at Tamarack, California during January, 1911. Tamarack had 884.0 inches of snow during the winter of 1906-07. The North American seasonal record is 1122.0 inches which occurred at the Rainier Paradise Ranger Station in Washington during the 1971-72 season.

**Photographs Wanted** - The Snow Surveys Office needs new photographs to be used as bulletin covers. The pictures should relate to snow or snow surveying and should be somewhat contrasty and without large white areas. If you have such pictures and would like to be a published photographer contact Dave Hart at 916-653-4541. We will credit you and your organization.