State of California The Resources Agency

# Memorandum

Date : February 8, 1999

To : 1. Jeanine Jones
2. William J. Bennett

From : Waiman Yip, Acting Chief
Water Resources Evaluation Section
**Department of Water Resources**

Subject: 1994 Annual Water Use-Water Supply Budgets

This report is the seventh in a series that provides field information on population, land use, water use, surface water supply, and groundwater. The data reported are based on precipitation, temperature, runoff, water supply, and water use measurements for 1994, rather than normalized conditions as assumed in a base year for Bulletin 160. Provided are 1994 data by PSA and by county; water use and supplies by PSA; and groundwater changes from 1993 to 1994.

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## Overview

This report provides actual field information for 1994 on population, land use, water use, surface water supply, and groundwater. Data are based on actual precipitation, temperature, etc., rather than on normal conditions as assumed in a base year for Bulletin 160. Annual reports provide timely information on changes in population, land use, groundwater, and water use in California. Totals shown in tables will not always add exactly because of rounding.

Water year 1994 was a year of below normal rainfall, but it followed a year with abundant supplies and reservoir carryover storage. Statewide precipitation averaged only 66 percent, runoff averaged 40 percent, and reservoir storage decreased 8.1 million acre-feet to 73 percent of normal at the end of the year. Groundwater storage declined as the groundwater reservoirs made up for the shortfall in surface water supplies.

The water budgets in this report have two major changes from the prior annual reports in this series. Beginning with this annual report and with the next Bulletin 160 update, water budgets will be computed using applied water data, rather than net water data. Applied water refers to the amount of water from any source needed to meet the demand of the user. It is the quantity of water delivered to the intake of a city water system or factory, the farm headgate, a marsh or wetland either directly or indirectly by incidental drainage flows, or the portion of stream flow that is dedicated or reserved to instream uses. Applied water includes the reuse of water within a service area, such as reuse of deep percolation of applied water or use of tail water. Net water use on the other hand refers to the amount of water that is provided to a service area to meet all demands within the area and includes the evapotranspiration of applied water, the irrecoverable losses from the distribution system, and the outflow leaving the area. Net water use does not include reuse of water within a service area.

The applied water methodology provides more information on water supplies and also is easier to understand than the net water use methodology. With the new applied water budget there will be two new line items in the water supply data: groundwater reuse and surface water reuse. Without the two items, the applied water budgets would be the same as the net water budgets.

A second major change to the water budgets from prior annual reports results from a new definition of "other" water use. Several water use categories previously classified as "other" (including recreational use, cooling water use, energy recovery use, and water-intensive industrial use) are now included in the urban water use classification. The "other" category now includes only conveyance losses and recharge that is banked for later years.

**Table 1. Reservoir Storage as of September 30**
(1,000 acre-feet)

| Region | Number of Reservoirs | Historic Average | 1993 | 1994 |
|---|---|---|---|---|
| North Coast | 7 | 2,086 | 2,354 | 1,546 |
| San Francisco Bay | 18 | 397 | 517 | 417 |
| Central Coast | 6 | 521 | 524 | 300 |
| South Coast | 29 | 1,122 | 1,623 | 1,432 |
| Sacramento River | 43 | 10,135 | 10,690 | 7,325 |
| San Joaquin River | 33 | 5,914 | 6,938 | 4,211 |
| Tulare Lake | 6 | 672 | 877 | 312 |
| North Lahontan | 5 | 560 | 210 | 85 |
| South Lahontan | 8 | 293 | 247 | 257 |
| California | 155 | 21,699 | 23,980 | 15,885 |
| **Percent of Average** | | | 111 | 73 |

**Figure 1. Hydrologic Regions in California**

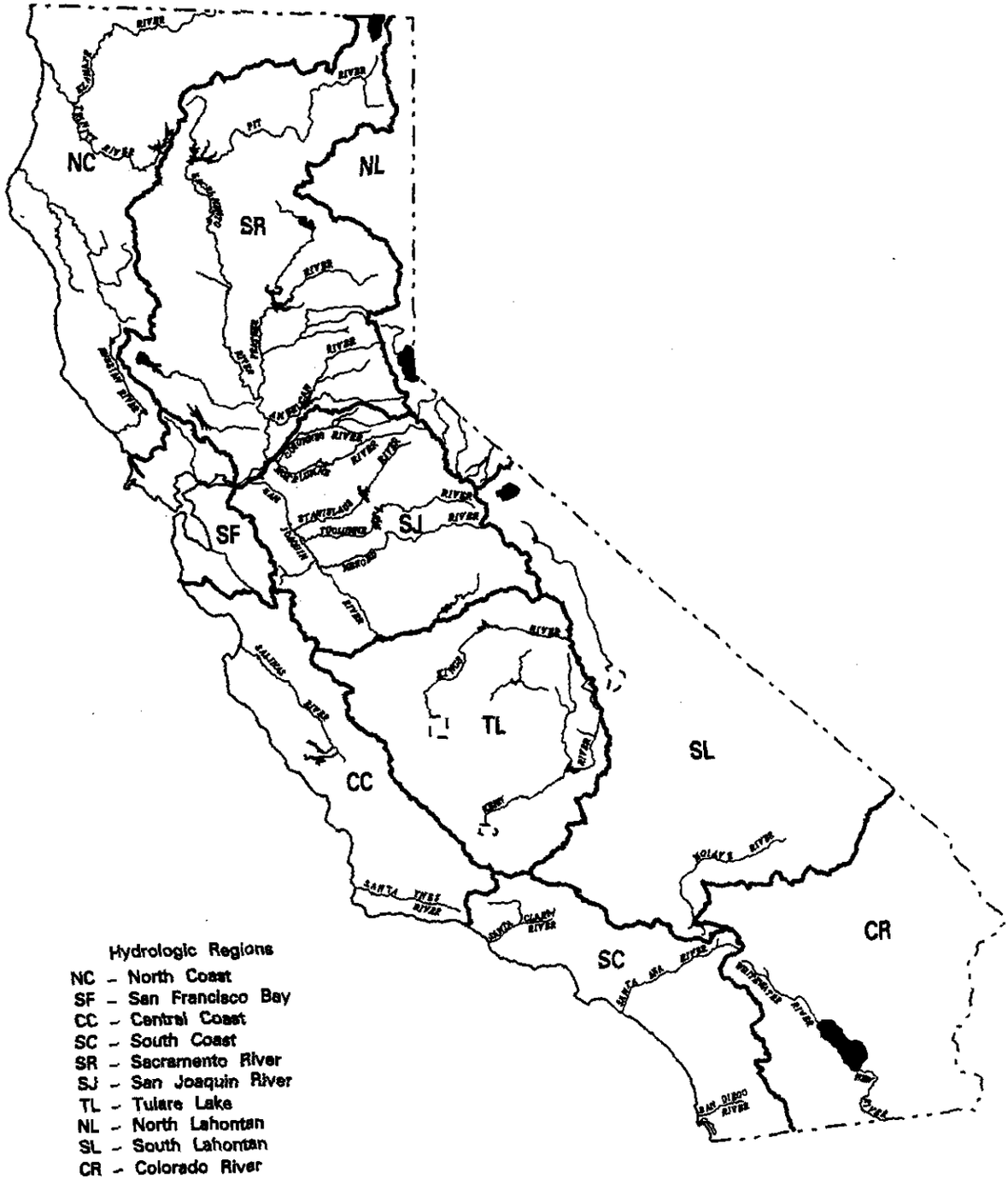


**Figure 2. Water Year Precipitation in Percent of Average, 1994**
by Hydrologic Region

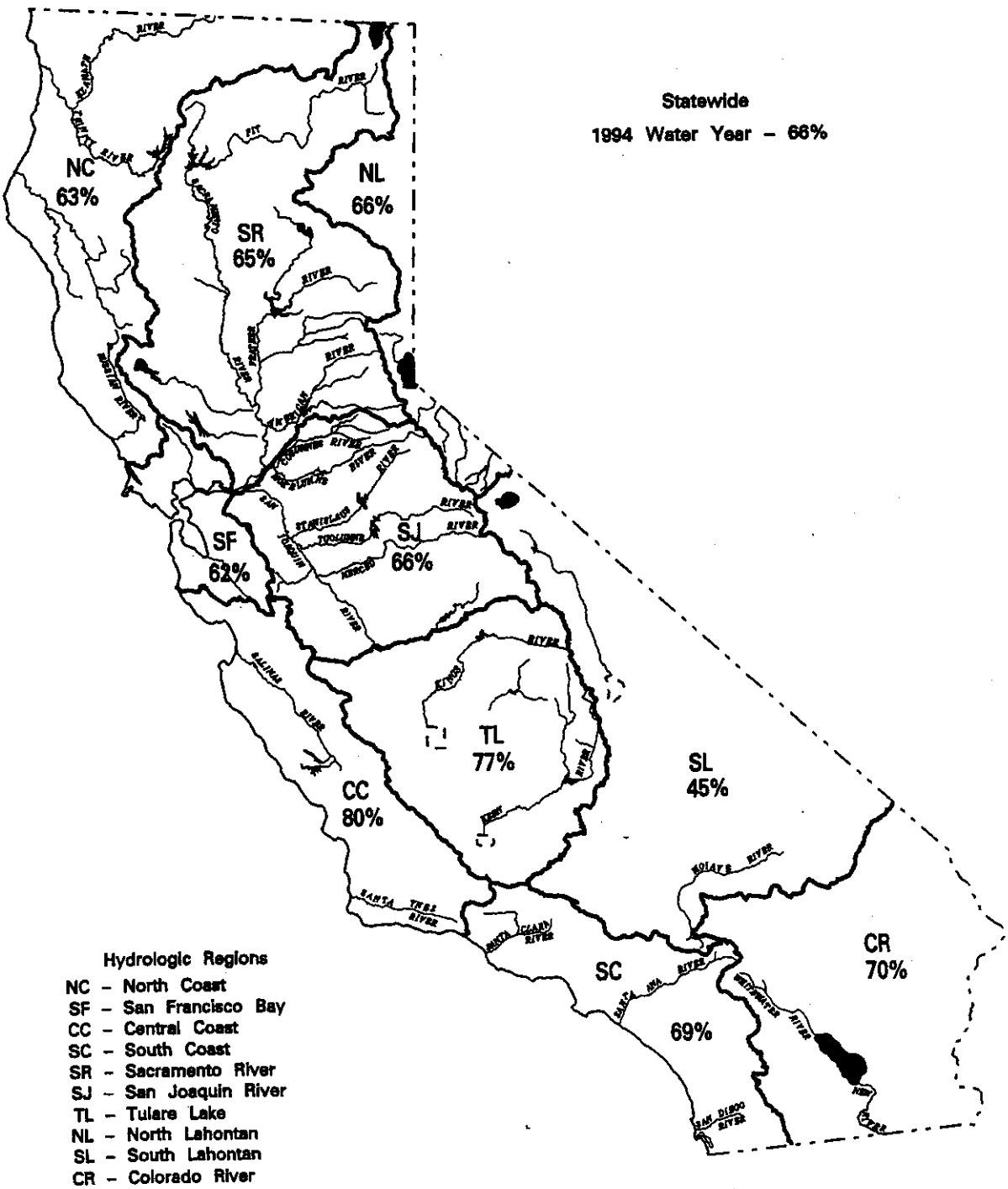
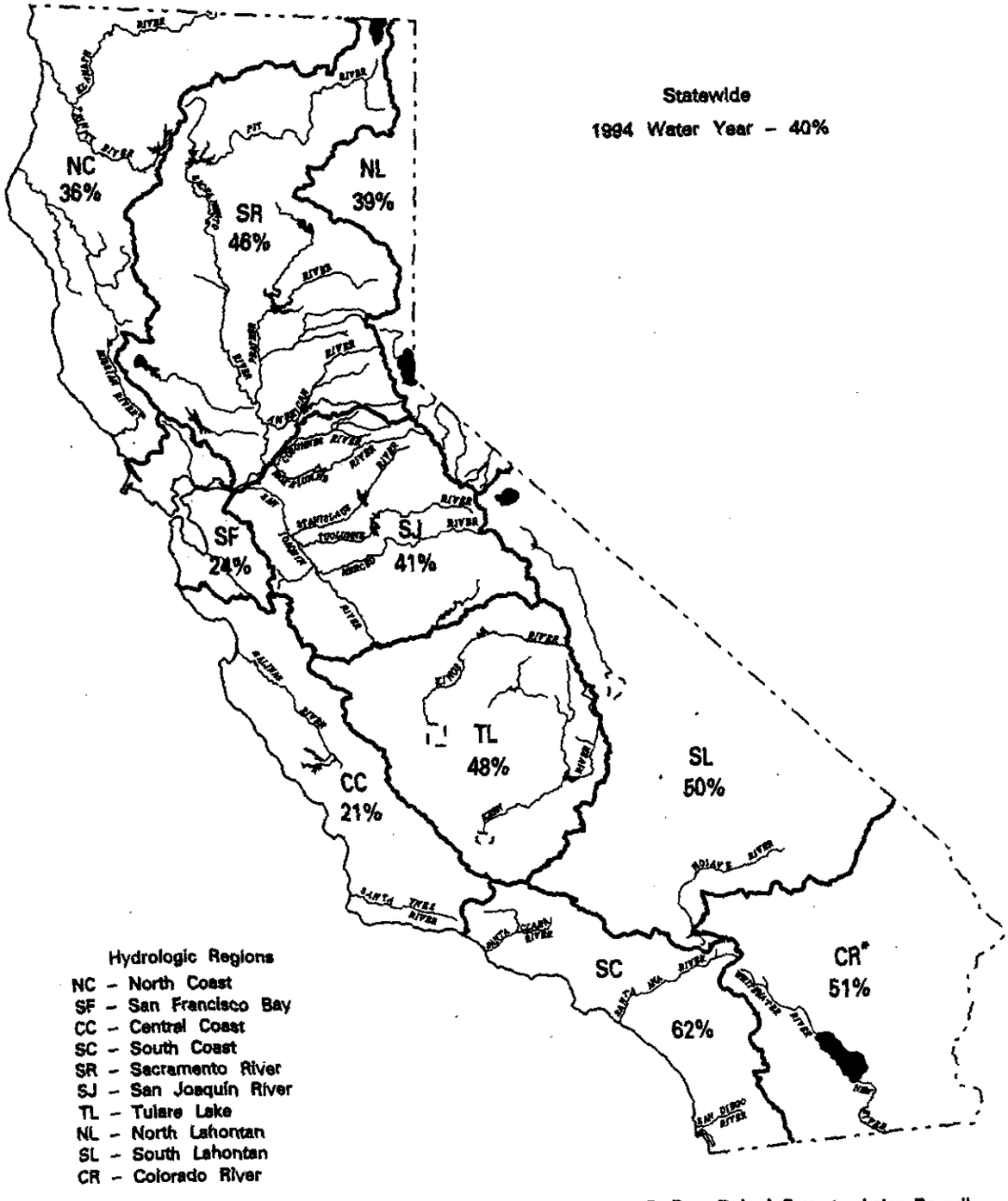


**Figure 3. Water Year Runoff in Percent of Average, 1994**
by Hydrologic Region



## Population

The California Department of Finance estimated California's population at 32,140,000 on July 1, 1994. This is an increase of 393,600 from July 1, 1993, or 1.2 percent over this period. This was the lowest growth since 1974-75 and continued the pattern of declining growth that started in 1990-91. Net migration was only 32,600, accounting for less than 10 percent of the State's growth. The number of births declined for the second year in a row, after eighteen consecutive years of increase.

DOF estimates of population are made between the U.S. Census using data from school enrollments, labor force, federal income tax returns, drivers licenses, Medicare data, and birth and death data. See Tables 2, 3, and 4 for regional, county, and PSA population data.

**Table 2. July 1994 Population**

| Region | Population | Percent |
|---|---|---|
| NC | 616,460 | 1.9% |
| SF | 5,791,460 | 18.0% |
| CC | 1,362,620 | 4.2% |
| SC | 17,252,050 | 53.7% |
| SR | 2,416,295 | 7.5% |
| SJ | 1,610,830 | 5.0% |
| TL | 1,749,910 | 5.4% |
| NL | 85,165 | 0.3% |
| SL | 710,710 | 2.2% |
| CR | 544,500 | 1.7% |
| **CA** | **32,140,000** | **100.0%** |

**Figure 4. Annual Population Increase, 1976-1994**
(Thousands)

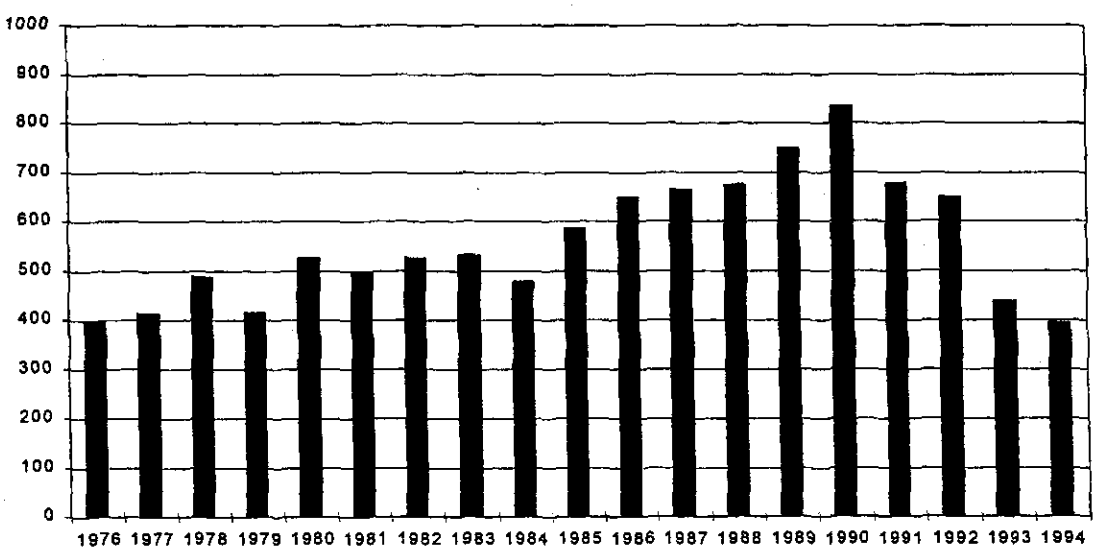


**Table 3. Population by County, Ranked by 1993-94 Change**--Department of Finance Data

| | July 1993 | July 1994 | 1993-94 Increase | 1993-94 % Increase |
|---|---|---|---|---|
| Los Angeles | 9,194,700 | 9,237,500 | 42,800 | 0.5% |
| San Diego | 2,665,900 | 2,705,800 | 39,900 | 1.5% |
| Orange | 2,578,400 | 2,615,300 | 36,900 | 1.4% |
| Riverside | 1,343,500 | 1,379,600 | 36,100 | 2.7% |
| San Bernardino | 1,580,800 | 1,608,300 | 27,500 | 1.7% |
| Santa Clara | 1,574,900 | 1,591,900 | 17,000 | 1.1% |
| Fresno | 741,400 | 757,100 | 15,700 | 2.1% |
| Sacramento | 1,123,800 | 1,137,400 | 13,600 | 1.2% |
| Kern | 609,800 | 622,900 | 13,100 | 2.1% |
| Contra Costa | 862,000 | 874,700 | 12,700 | 1.5% |
| Alameda | 1,340,000 | 1,352,000 | 12,000 | 0.9% |
| Ventura | 703,600 | 713,400 | 9,800 | 1.4% |
| Sonoma | 418,600 | 427,500 | 8,900 | 2.1% |
| Tulare | 343,500 3 | 52,100 | 8,600 | 2.5% |
| Imperial | 131,800 | 140,200 | 8,400 | 6.4% |
| San Mateo | 681,600 | 689,900 | 8,300 | 1.2% |
| San Joaquin | 518,500 | 526,600 | 8,100 | 1.6% |
| Stanislaus | 409,500 | 417,200 | 7,700 | 1.9% |
| Placer | 197,800 | 205,400 | 7,600 | 3.8% |
| Butte | 197,900 | 204,200 | 6,300 | 3.2% |
| San Francisco | 747,300 | 753,400 | 6,100 | 0.8% |
| Santa Barbara | 388,900 | 394,400 | 5,500 | 1.4% |
| San Luis Obispo | 229,900 | 234,500 | 4,600 | 2.0% |
| Merced | 196,800 | 201,200 | 4,400 | 2.2% |
| El Dorado | 142,800 | 146,400 | 3,600 | 2.5% |
| Solano | 371,800 | 375,300 | 3,500 | 0.9% |
| Santa Cruz | 237,800 | 241,100 | 3,300 | 1.4% |
| Madera | 105,100 | 108,200 | 3,100 | 2.9% |
| Kings | 112,900 | 115,700 | 2,800 | 2.5% |
| Marin | 241,700 | 244,100 | 2,400 | 1.0% |
| Shasta | 162,100 | 164,500 | 2,400 | 1.5% |
| Sutter | 72,000 | 74,200 | 2,200 | 3.1% |
| Nevada | 85,900 | 87,700 | 1,800 | 2.1% |
| Yolo | 149,600 | 151,200 | 1,600 | 1.1% |
| Lake | 56,000 | 57,300 | 1,300 | 2.3% |
| Calaveras | 37,000 | 38,300 | 1,300 | 3.5% |
| Mendocino | 84,300 | 85,600 | 1,300 | 1.5% |
| Tehama | 53,800 | 55,100 | 1,300 | 2.4% |
| San Benito | 40,800 | 42,000 | 1,200 | 2.9% |
| Napa | 118,000 | 119,000 | 1,000 | 0.8% |
| Humboldt | 126,600 | 127,500 | 900 | 0.7% |
| Siskiyou | 45,300 | 46,000 | 700 | 1.5% |
| Tuolumne | 52,500 | 53,100 | 600 | 1.1% |
| Yuba | 63,200 | 63,800 | 600 | 0.9% |
| Mono | 10,800 | 11,300 | 500 | 4.6% |
| Amador | 33,000 | 33,500 | 500 | 1.5% |

**Table 3. (continued) Population by County, Ranked by 1993-94 Change**--Department of Finance Data.

| | July 1993 | July 1994 | 1993-94 Increase | 1993-94 % Increase |
|---|---|---|---|---|
| Mariposa | 16,000 | 16,400 | 400 | 2.5% |
| Inyo | 18,600 | 18,900 | 300 | 1.6% |
| Del Norte | 28,400 | 28,700 | 300 | 1.1% |
| Trinity | 13,600 | 13,900 | 300 | 2.2% |
| Lassen | 29,200 | 29,400 | 200 | 0.7% |
| Colusa | 17,500 | 17,700 | 200 | 1.1% |
| Modoc | 10,400 | 10,500 | 100 | 1.0% |
| Alpine | 1,200 | 1,200 | 0 | 0.0% |
| Plumas | 21,000 | 21,000 | 0 | 0.0% |
| Sierra | 3,400 | 3,400 | 0 | 0.0% |
| Glenn | 26,600 | 26,500 | -100 | -0.4% |
| Monterey | 376,600 | 369,000 | -7,600 | -2.0% |
| **State Total** | **31,746,400** | **32,140,000** | **393,600** | **1.2%** |

**Table 4. Population by Planning Subarea**

| | July 1993 | July 1994 |
|---|---|---|
| **North Coast Region** | | |
| *Upper Klamath PSA* | 30,350 | 30,860 |
| Lower Klamath-Smith PSA | 50,605 | 51,215 |
| Coastal PSA | 168,120 | 169,765 |
| Russian River PSA | 357,875 | 364,620 |
| **Region Total** | **606,950** | **616,460** |
| **San Francisco Bay Region** | | |
| North Bay PSA | 718,955 | 726,395 |
| South Bay PSA | 5,015,435 | 5,065,065 |
| ***Region Total*** | **5,734,390** | **5,791,460** |
| **Central Coast Region** | | |
| Northern PSA | 735,225 | 733,495 |
| Southern PSA | 619,025 | 629,125 |
| **Region Total** | **1,354,250** | **1,362,620** |
| **South Coast Region** | | |
| Santa Clara PSA | 885,575 | 898,875 |
| Metropolitan PSA | 8,736,100 | 8,758,600 |
| *Santa Ana PSA* | 4,327,300 | 4,394,400 |
| San Diego PSA | 3,142,625 | 3,200,175 |
| **Region Total** | **17,091,600** | **17,252,050** |
| **Sacramento Region** | | |
| Shasta Lake-Pit River PSA | 32,390 | 32,740 |
| Northwest Valley PSA | 117,200 | 118,910 |
| Northeast Valley PSA | 205,045 | 210,340 |
| Southeast PSA | 267,580 | 273,015 |
| *Central Basin West PSA* | 260,220 | 264,230 |
| Central Basin East PSA | 1,365,560 | 1,388,020 |
| Southwest PSA | 57,670 | 58,980 |
| Delta Service Area PSA | 69,685 | 70,060 |
| **Region Total** | **2,375,350** | **2,416,295** |

**Table 4. (continued) Population by Planning Subarea**

| | July 1993 | July 1994 |
|---|---|---|
| **San Joaquin Region** | | |
| Sierra Foothills PSA | 159,575 | 163,225 |
| Eastern Valley Floor PSA | 337,360 | 341,985 |
| Delta Service Area PSA | 173,325 | 178,525 |
| Western Uplands PSA | 75,040 | 77,965 |
| East Side Uplands PSA | 48,045 | 49,080 |
| Valley East Side PSA | 714,860 | 729,360 |
| Valley West Side PSA | 68,385 | 70,655 |
| West Side Uplands PSA | 35 | 35 |
| **Region Total** | **1,576,625** | **1,610,830** |
| **Tulare Lake Region** | | |
| Uplands PSA | 61,310 | 61,900 |
| Kings-Kaweah-Tule Rivers PSA | 1,123,065 | 1,149,520 |
| San Luis West Side PSA | 42,445 | 42,465 |
| Western Uplands PSA | 7,805 | 7,885 |
| Kern Valley Floor PSA | 476,165 | 488,140 |
| **Region Total** | **1,710,790** | **1,749,910** |
| **North Lahontan Region** | | |
| Lassen Group PSA | 26,020 | 26,175 |
| Alpine Group PSA | 57,445 | 58,990 |
| **Region Total** | **83,465** | **85,165** |
| **South Lahontan Region** | | |
| Mono-Owens Area PSA | 26,205 | 26,860 |
| Death Valley PSA | 1,075 | 1,075 |
| Indian Wells Area PSA | 54,025 | 54,325 |
| Antelope Valley PSA | 304,950 | 322,075 |
| Mojave River PSA | 300,050 | 306,375 |
| **Region Total** | **686,305** | **710,710** |
| **Colorado River Region** | | |
| 29 Palms-Lanfair PSA | 67,175 | 67,250 |
| Chuckwalla PSA | 2,875 | 2,890 |
| Colorado River PSA | 31,010 | 33,630 |
| Coachella PSA | 292,360 | 299,140 |
| Borrego PSA | 8,230 | 8,765 |
| Imperial Valley PSA | 125,025 | 132,825 |
| **Region Total** | **526,675** | **544,500** |
| **California Total** | **31,746,400** | **32,140,000** |

## Land Use

California's total crop irrigated acreage in 1994 was about 9.5 million acres, 190,000 acres more than 1993. Significant crop changes from the year before were that alfalfa increased by about 55,000 acres and rice increased by about 50,000 acres. Annual acreages are estimated from DWR county surveys and the County Agricultural Commission reports. Counties surveyed in 1994 were: Solano, Placer, Yuba, Butte, Tehama, and Fresno.

Agricultural price support programs, conservation reserve programs, marketing orders, and international trade restrictions by the federal government impact the irrigated acreage in California, but the impact is difficult to determine. Price support programs that required farmers to idle irrigated acreage and the Crop Acreage Reduction Program tended to reduce California's planted acreage. On the other hand, subsidy programs that made crops profitable which otherwise might not have been planted tended to increase acreage. Tabulated below are the government payments to California farmers and to all U.S. farmers for the last thirteen years. In 1994, California ranked number one in gross agricultural receipts (10.3% of U.S.), but received only 3.5 percent of federal payments to farmers.

**Table 5. Government Payments to California Farmers** (1,000 Dollars)

| Year | Feed Grains | Wheat | Rice | Cotton | Wool Act | Conservation | Miscellaneous | Total |
|---|---|---|---|---|---|---|---|---|
| 1982 | 4,280 | 9,524 | 23,679 | 86,731 | 4,190 | 4,869 | 1,210 | 134,483 |
| 1983 | 4,787 | 12,433 | 52,281 | 71,729 | 6,730 | 4,371 | 200,275 | 352,606 |
| 1984 | 2,688 | 19,040 | 29,016 | 27,023 | 9,717 | 7,717 | 240,058 | 335,259 |
| 1985 | 5,295 | 21,711 | 121,362 | 99,972 | 8,091 | 5,325 | 39,131 | 300,887 |
| 1986 | 17,324 | 43,441 | 82,272 | 119,602 | 9,476 | 4,990 | 110,756 | 387,861 |
| 1987 | 36,397 | 60,250 | 87,589 | 168,103 | 8,295 | 10,866 | 90,511 | 462,011 |
| 1988 | 28,464 | 40,237 | 87,435 | 118,600 | 6,949 | 12,879 | 40,514 | 335,078 |
| 1989 | 10,331 | 10,426 | 124,811 | 148,324 | 3,203 | 13,684 | 61,311 | 372,090 |
| 1990 | 6,340 | 27,752 | 92,150 | 57,995 | 4,463 | 14,452 | 49,181 | 252,333 |
| 1991 | 8,942 | 32,741 | 102,428 | 48,991 | 8,968 | 13,212 | 45,537 | 260,825 |
| 1992 | 10,643 | 23,134 | 103,570 | 91,232 | 10,794 | 13,479 | 177,530 | 430,382 |
| 1993 | 15,093 | 30,023 | 127,013 | 138,427 | 8,915 | 14,144 | 188,531 | 522,146 |
| 1994 | 8,042 | 22,747 | 67,688 | 92,978 | 9,952 | 14,642 | 56,732 | 272,781 |

**Table 6. Government Payments to U.S. Farmers** (1,000 Dollars)

| Year | Feed Grains | Wheat | Rice | Cotton | Wool Act | Conservation | Miscellaneous | Total |
|---|---|---|---|---|---|---|---|---|
| 1982 | 713,315 | 652,268 | 155,910 | 800,211 | 46,042 | 176,668 | 945,551 | 3,489,965 |
| 1983 | 1,346,033 | 864,179 | 277,627 | 662,289 | 83,550 | 187,532 | 5,873,889 | 9,295,099 |
| 1984 | 366,739 | 1,795,151 | 191,783 | 274,658 | 117,578 | 191,458 | 5,493,003 | 8,430,370 |
| 1985 | 2,860,552 | 1,949,621 | 577,234 | 1,106,244 | 97,596 | 188,830 | 924,077 | 7,704,154 |
| 1986 | 5,158,038 | 3,499,721 | 422,769 | 1,042,392 | 119,922 | 253,697 | 1,324,812 | 11,821,351 |
| 1987 | 8,489,993 | 2,931,266 | 474,853 | 1,204,298 | 143,724 | 1,530,927 | 1,971,671 | 16,746,732 |
| 1988 | 7,219,460 | 1,841,883 | 464,548 | 923,863 | 116,777 | 1,607,379 | 2,305,898 | 14,479,808 |
| 1989 | 3,140,796 | 602,997 | 670,982 | 1,183,316 | 81,403 | 1,770,664 | 3,436,044 | 10,886,202 |
| 1990 | 2,701,173 | 2,311,300 | 464,880 | 440,757 | 96,195 | 1,898,141 | 1,385,584 | 9,298,030 |
| 1991 | 2,648,653 | 2,165,672 | 550,029 | 406,903 | 153,519 | 1,858,183 | 431,440 | 8,214,399 |
| 1992 | 2,499,273 | 1,402,688 | 512,300 | 751,177 | 188,082 | 1,899,421 | 1,915,979 | 9,168,920 |
| 1993 | 4,844,009 | 1,909,362 | 649,678 | 1,255,618 | 173,249 | 1,966,691 | 2,633,408 | 13,432,015 |
| 1994 | 1,448,688 | 1,156,242 | 336,701 | 826,743 | 201,931 | 1,977,661 | 1,933,070 | 7,881,036 |

Source: "Economic Indicators of the Farm Sector, State Financial Summary," U.S. Dept. of Agriculture, Economic Research Unit.

## Table 7. 1994 Crop Acreages by Planning Subarea (1,000 acres)

**North Coast Region**

| Crop | Upper Klamath | Lower Klamath | Coastal | Russian River | Total |
|---|---|---|---|---|---|
| Grain | 44.6 | 0.3 | 0.0 | 0.0 | 44.9 |
| Rice | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Cotton | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Sugar Beets | 5.5 | 0.0 | 0.0 | 0.0 | 5.5 |
| Corn | 0.1 | 0.0 | 0.1 | 0.6 | 0.8 |
| Other Field | 0.1 | 0.0 | 0.1 | 1.8 | 2.0 |
| Alfalfa | 51.4 | 0.5 | 0.1 | 0.0 | 52.0 |
| Pasture | 72.8 | 10.5 | 23.5 | 10.9 | 117.7 |
| Tomatoes | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Other Truck | 18.7 | 0.7 | 1.3 | 0.8 | 21.5 |
| Almond-Pistachio | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Other Deciduous | 0.0 | 0.0 | 1.0 | 5.6 | 6.6 |
| Citrus-Olive | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Grapes | 0.0 | 0.0 | 1.0 | 35.2 | 36.2 |
| **Total Crop Acres** | **193.2** | **12.0** | **27.1** | **54.9** | **287.2** |
| Double Crop | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| **Total Land Acres** | **193.2** | **12.0** | **27.1** | **54.9** | **287.2** |

**San Francisco Bay Region**

| Crop | North Bay | South Bay | Total |
|---|---|---|---|
| Grain | 0.3 | 1.3 | 1.6 |
| Rice | 0.0 | 0.0 | 0.0 |
| Cotton | 0.0 | 0.0 | 0.0 |
| Sugar Beets | 0.1 | 0.0 | 0.1 |
| Corn | 0.7 | 0.0 | 0.7 |
| Other Field | 0.3 | 1.2 | 1.5 |
| Alfalfa | 0.0 | 0.1 | 0.1 |
| Pasture | 4.3 | 0.6 | 4.9 |
| Tomatoes | 0.2 | 0.0 | 0.2 |
| Other Truck | 1.1 | 7.6 | 8.7 |
| Almond-Pistachio | 0.0 | 0.0 | 0.0 |
| Other Deciduous | 4.2 | 2.1 | 6.3 |
| Citrus-Olive | 0.0 | 0.0 | 0.0 |
| Grapes | 36.6 | 2.1 | 38.7 |
| **Total Crop Acres** | **47.8** | **15.0** | **62.8** |
| Double Crop | 0.0 | 0.2 | 0.2 |
| **Total Land Acres** | **47.8** | **14.8** | **62.6** |

## Table 7. (continued) 1994 Crop Acreages by Planning Subarea (1,000 acres)

**Central Coast Region**

| Crop | Southern | Northern | Total |
|---|---|---|---|
| Grain | 5.9 | 18.1 | 24.0 |
| Rice | 0.0 | 0.0 | 0.0 |
| Cotton | 0.0 | 0.0 | 0.0 |
| Sugar Beets | 0.0 | 2.7 | 2.7 |
| Corn | 1.4 | 1.0 | 2.4 |
| Other Field | 7.9 | 8.9 | 16.8 |
| Alfalfa | 17.3 | 3.9 | 21.2 |
| Pasture | 12.8 | 3.6 | 16.4 |
| Tomatoes | 0.5 | 7.9 | 8.4 |
| Other Truck | 97.8 | 290.3 | 388.1 |
| Almond-Pistachio | 0.0 | 0.0 | 0.0 |
| Other Deciduous | 2.9 | 14.7 | 17.6 |
| Citrus-Olive | 16.9 | 1.1 | 18.0 |
| Grapes | 21.0 | 34.1 | 55.1 |
| **Total Crop Acres** | **184.3** | **386.3** | **570.6** |
| Double Crop | 38.8 | 104.3 | 143.1 |
| **Total Land Acres** | **145.5** | **282.0** | **427.5** |

**South Coast Region**

| Crop | Santa Clara | Metro LA | Santa Ana | San Diego | Total |
|---|---|---|---|---|---|
| Grain | 0.1 | 0.1 | 3.4 | 7.0 | 10.5 |
| Rice | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Cotton | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Sugar Beets | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Corn | 1.2 | 0.2 | 2.3 | 0.4 | 4.1 |
| Other Field | 0.4 | 0.0 | 3.9 | 0.2 | 4.4 |
| Alfalfa | 0.2 | 0.0 | 8.7 | 0.5 | 9.5 |
| Pasture | 2.3 | 0.3 | 12.3 | 5.1 | 19.8 |
| Tomatoes | 2.2 | 0.0 | 0.9 | 2.5 | 5.6 |
| Other Truck | 48.6 | 4.1 | 18.1 | 13.7 | 84.6 |
| Almond-Pistachio | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Other Deciduous | 0.3 | 0.0 | 1.1 | 1.9 | 3.3 |
| Citrus-Olive | 59.3 | 2.1 | 24.1 | 72.9 | 158.4 |
| Grapes | 0.0 | 0.0 | 3.6 | 2.3 | 6.0 |
| **Total Crop Acres** | **114.5** | **6.8** | **78.4** | **106.5** | **306.1** |
| Double Crop | 21.3 | 0.1 | 5.6 | 2.7 | 29.7 |
| **Total Land Acres** | **93.2** | **6.7** | **72.8** | **103.8** | **276.5** |

## Table 7. (continued) 1994 Crop Acreages by Planning Subarea (1,000 acres)

**Sacramento River Region**

| Crop | Shasta Pit | Northwest Valley | Northeast Valley | South-east | Central Basin W. | Central Basin E. | South-west | Delta Serv. Area | Total |
|---|---|---|---|---|---|---|---|---|---|
| Grain | 6.1 | 9.6 | 4.9 | 1.1 | 139.2 | 52.2 | 1.3 | 31.3 | 245.7 |
| Rice | 2.9 | 2.7 | 0.0 | 1.0 | 203.2 | 319.2 | 1.0 | 0.8 | 530.8 |
| Cotton | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 1.0 |
| Sugar Beets | 1.1 | 1.4 | 0.8 | 0.0 | 22.6 | 8.2 | 0.0 | 8.2 | 42.3 |
| Corn | 0.0 | 3.3 | 1.8 | 0.0 | 38.2 | 11.9 | 0.0 | 35.7 | 90.9 |
| Other Field | 0.2 | 3.7 | 4.4 | 0.0 | 84.0 | 44.8 | 0.2 | 33.6 | 170.9 |
| Alfalfa | 40.5 | 9.7 | 1.6 | 4.4 | 67.3 | 18.1 | 0.5 | 12.9 | 155.0 |
| Pasture | 87.0 | 43.0 | 20.3 | 79.4 | 25.4 | 50.4 | 3.2 | 16.7 | 325.4 |
| Tomatoes | 0.0 | 0.0 | 0.0 | 0.0 | 106.5 | 29.6 | 0.0 | 22.5 | 158.6 |
| Other Truck | 1.0 | 0.8 | 0.6 | 0.4 | 31.2 | 20.2 | 0.1 | 2.8 | 57.1 |
| Almond-Pistachio | 0.0 | 13.8 | 21.0 | 0.1 | 38.6 | 29.3 | 0.1 | 0.0 | 102.9 |
| Other Deciduous | 0.1 | 18.8 | 28.6 | 3.0 | 34.1 | 115.7 | 8.3 | 7.8 | 216.4 |
| Citrus-Olive | 0.0 | 19.0 | 0.4 | 2.3 | 2.1 | 3.3 | 0.0 | 0.0 | 27.1 |
| Grapes | 0.0 | 0.1 | 0.2 | 0.9 | 4.3 | 0.3 | 4.4 | 5.3 | 15.5 |
| **Total Crop Acres** | **138.9** | **125.9** | **84.6** | **92.6** | **797.7** | **703.2** | **19.1** | **177.6** | **2,139.6** |
| Double Crop | 0.0 | 0.6 | 0.0 | 0.0 | 28.0 | 11.9 | 0.0 | 5.2 | 45.7 |
| **Total Land Acres** | **138.9** | **125.3** | **84.6** | **92.6** | **769.7** | **691.3** | **19.1** | **172.4** | **2,093.9** |

**San Joaquin River Region**

| Crop | Sierra Foot | E. Vly Floor | Delta | West Uplands | E. Side Uplands | Vly E. Side | Vly W. Side | W. Side Uplands | Total |
|---|---|---|---|---|---|---|---|---|---|
| Grain | 0.0 | 22.0 | 38.6 | 0.5 | 0.0 | 105.4 | 27.6 | | 194.1 |
| Rice | 0.0 | 4.9 | 0.0 | 0.0 | 0.0 | 11.2 | 6.9 | | 23.0 |
| Cotton | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 75.5 | 111.6 | | 187.1 |
| Sugar Beets | 0.0 | 9.7 | 11.1 | 0.0 | 0.0 | 5.9 | 17.5 | | 44.2 |
| Corn | 0.0 | 33.7 | 69.9 | 0.0 | 0.0 | 109.2 | 16.3 | | 229.1 |
| Other Field | 0.0 | 19.1 | 41.2 | 2.6 | 0.7 | 22.0 | 42.8 | | 128.4 |
| Alfalfa | 0.0 | 16.4 | 49.1 | 3.7 | 0.0 | 108.3 | 63.3 | | 240.8 |
| Pasture | 3.8 | 42.3 | 8.7 | 0.5 | 1.1 | 119.9 | 21.0 | | 197.3 |
| Tomatoes | 0.0 | 12.1 | 22.0 | 0.0 | 0.0 | 13.1 | 37.2 | | 84.4 |
| Other Truck | 0.1 | 12.8 | 41.6 | 0.6 | 0.0 | 22.7 | 66.8 | | 144.6 |
| Almond-Pistachio | 0.0 | 3.0 | 2.7 | 1.7 | 0.0 | 230.4 | 14.2 | | 252.0 |
| Other Deciduous | 3.1 | 41.0 | 11.2 | 2.2 | 0.4 | 72.5 | 25.0 | | 155.4 |
| Citrus-Olive | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.4 | 0.2 | | 8.6 |
| Grapes | 2.0 | 57.7 | 1.5 | 0.7 | 0.1 | 120.8 | 0.7 | | 183.5 |
| **Total Crop Acres** | **9.0** | **274.7** | **297.6** | **12.5** | **2.3** | **1,025.3** | **451.1** | **0.0** | **2,072.5** |
| Double Crop | 0.0 | 4.5 | 6.1 | 0.0 | 0.0 | 47.0 | 6.1 | | 63.7 |
| **Total Land Acres** | **9.0** | **270.2** | **291.5** | **12.5** | **2.3** | **978.3 4** | **45.0** | **0.0** | **2,008.8** |

## Table 7. (continued) 1994 Crop Acreages by Planning Subarea (1,000 acres)

**Tulare Lake Region**

| Crop | Kern Valley | KKT | San Luis West Side | Uplands | Total |
|---|---|---|---|---|---|
| Grain | 57.4 | 168.6 | 38.2 | 0.0 | 264.2 |
| Rice | 0.0 | 0.2 | 0.0 | 0.0 | 0.2 |
| Cotton | 292.5 | 454.9 | 258.1 | 0.0 | 1,005.5 |
| Sugar Beets | 9.9 | 13.8 | 9.8 | 0.0 | 33.5 |
| Corn | 6.5 | 108.5 | 0.0 | 0.0 | 115.0 |
| Other Field | 17.1 | 53.3 | 22.7 | 0.1 | 93.2 |
| Alfalfa | 84.2 | 181.6 | 9.6 | 1.0 | 276.4 |
| Pasture | 2.9 | 42.1 | 0.7 | 3.8 | 49.5 |
| Tomatoes | 4.9 | 9.1 | 90.0 | 0.0 | 104.0 |
| Other Truck | 76.0 | 35.5 | 81.1 | 0.1 | 192.7 |
| Almond-Pistachio | 107.2 | 7.5 | 23.4 | 0.0 | 178.1 |
| Other Deciduous | 21.7 | 167.8 | 3.5 | 1.5 | 194.5 |
| Citrus-Olive | 50.8 | 147.8 | 0.7 | 1.7 | 201.0 |
| Grapes | 89.4 | 287.9 | 5.6 | 0.0 | 382.9 |
| **Total Crop Acres** | **820.5** | **1,718.6** | **543.4** | **8.2** | **3,090.7** |
| Double Crop | 25.6 | 29.2 | 12.0 | 0.0 | 66.8 |
| **Total Land Acres** | **794.9** | **1,689.4** | **531.4** | **8.2** | **3,023.9** |

**North Lahontan Region**

| Crop | Lassen Group | Alpine Group | Total |
|---|---|---|---|
| Grain | 3.4 | 0.0 | 3.4 |
| Rice | 0.4 | 0.0 | 0.4 |
| Cotton | 0.0 | 0.0 | 0.0 |
| Sugar Beets | 0.3 | 0.0 | 0.3 |
| Corn | 0.3 | 0.0 | 0.3 |
| Other Field | 0.0 | 0.0 | 0.0 |
| Alfalfa | 37.1 | 3.4 | 40.5 |
| Pasture | 62.5 | 37.4 | 99.9 |
| Tomatoes | 0.0 | 0.0 | 0.0 |
| Other Truck | 1.0 | 0.0 | 1.0 |
| Almond-Pistachio | 0.0 | 0.0 | 0.0 |
| Other Deciduous | 0.0 | 0.0 | 0.0 |
| Citrus-Olive | 0.0 | 0.0 | 0.0 |
| Grapes | 0.0 | 0.0 | 0.0 |
| **Total Crop Acres** | **105.0** | **40.8** | **145.8** |
| Double Crop | 0.0 | 0.0 | 0.0 |
| **Total Land Acres** | **105.0** | **40.8** | **145.8** |

## Table 7. (continued) 1994 Crop Acreages by Planning Subarea (1,000 acres)

**South Lahontan Region**

| Crop | Mono Owens | Death Valley | Indian Wells | Antelope Valley | Mojave River | Total |
|---|---|---|---|---|---|---|
| Grain | 0.0 | 0.0 | 0.0 | 2.4 | 0.3 | 2.6 |
| Rice | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Cotton | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Sugar Beets | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Corn | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.1 |
| Other Field | 0.0 | 0.0 | 0.0 | 0.4 | 0.7 | 1.1 |
| Alfalfa | 9.9 | 1.7 | 2.0 | 6.7 | 12.9 | 33.1 |
| Pasture | 16.0 | 0.2 | 0.1 | 0.3 | 1.1 | 17.7 |
| Tomatoes | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Other Truck | 1.5 | 0.0 | 0.0 | 2.2 | 0.1 | 3.8 |
| Almond-Pistachio | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Other Deciduous | 0.0 | 0.1 | 0.3 | 1.8 | 0.4 | 2.7 |
| Citrus-Olive | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Grapes | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| **Total Crop Acres** | **27.4** | **2.1** | **2.4** | **13.8** | **15.5** | **61.2** |
| Double Crop | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| **Total Land Acres** | **27.4** | **2.1** | **2.4** | **13.8** | **15.5** | **61.2** |

**Colorado River Region**

| Crop | 29 Palms-Lanfair | Chuckwalla | Colorado River | Coachella | Borrego | Imperial | Total |
|---|---|---|---|---|---|---|---|
| Grain | 0.0 | 0.0 | 8.0 | 0.7 | 0.2 | 61.4 | 70.4 |
| Rice | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Cotton | 0.0 | 0.0 | 11.7 | 0.4 | 0.0 | 6.4 | 18.4 |
| Sugar Beets | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 34.4 | 34.4 |
| Corn | 0.0 | 0.0 | 0.2 | 4.4 | 0.2 | 5.4 | 10.1 |
| Other Field | 0.1 | 0.0 | 10.9 | 1.7 | 0.1 | 82.7 | 95.5 |
| Alfalfa | 2.4 | 0.0 | 60.3 | 3.1 | 2.2 | 190.1 | 258.1 |
| Pasture | 0.0 | 0.0 | 4.6 | 1.6 | 0.1 | 42.1 | 48.4 |
| Tomatoes | 0.0 | 0.0 | 0.9 | 0.1 | 0.2 | 3.8 | 5.1 |
| Other Truck | 0.0 | 1.0 | 22.1 | 20.3 | 4.5 | 102.3 | 150.1 |
| Almond-Pistachio | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Other Deciduous | 0.0 | 0.0 | 0.0 | 0.5 | 0.1 | 0.6 | 1.2 |
| Citrus-Olive | 0.2 | 3.2 | 5.4 | 21.1 | 2.1 | 4.5 | 36.6 |
| Grapes | 0.8 | 0.0 | 0.0 | 18.3 | 0.0 | 0.0 | 19.1 |
| **Crop Acres** | **3.5** | **4.2** | **124.1** | **72.2** | **9.7** | **533.8** | **747.5** |
| Double Crop | 0.0 | 0.0 | 19.2 | 14.4 | 1.4 | 80.5 | 115.5 |
| **Total Land Acres** | **3.5** | **4.2** | **104.9** | **57.7** | **8.4** | **453.3** | **632.1** |

**Table 8. 1994 Crop Acreages by Region** (1,000 acres)

| Crop | NC | SF | CC | SC | SR | SJ | TL | NL | SL | CR | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Grain | 44.9 | 1.6 | 24.0 | 10.5 | 245.7 | 194.1 | 264.2 | 3.4 | 2.6 | 70.4 | 861.5 |
| Rice | 0.0 | 0.0 | 0.0 | 0.0 | 530.8 | 23.0 | 0.2 | 0.4 | 0.0 | 0.0 | 554.4 |
| Cotton | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 187.1 | 1,005.5 | 0.0 | 0.0 | 18.4 | 1,212.0 |
| Sugar Beets | 5.5 | 0.1 | 2.7 | 0.0 | 42.3 | 44.2 | 33.5 | 0.3 | 0.0 | 34.4 | 163.0 |
| Corn | 0.8 | 0.7 | 2.4 | 4.1 | 90.9 | 229.1 | 115.0 | 0.3 | 0.1 | 10.1 | 453.5 |
| Other Field | 2.0 | 1.5 | 16.8 | 4.4 | 170.9 | 128.4 | 93.2 | 0.0 | 1.1 | 95.5 | 513.8 |
| Alfalfa | 52.0 | 0.1 | 21.2 | 9.5 | 155.0 | 240.8 | 276.4 | 40.5 | 33.1 | 258.1 | 1,086.7 |
| Pasture | 117.7 | 4.9 | 16.4 | 19.8 | 325.4 | 197.3 | 49.5 | 99.9 | 17.7 | 48.4 | 897.0 |
| Tomatoes | 0.0 | 0.2 | 8.4 | 5.6 | 158.6 | 84.4 | 104.0 | 0.0 | 0.0 | 5.1 | 366.3 |
| Other Truck | 21.5 | 8.7 | 388.1 | 84.6 | 57.1 | 144.6 | 192.7 | 1.0 | 3.8 | 150.1 | 1,052.2 |
| Almond-Pistachio | 0.0 | 0.0 | 0.0 | 0.0 | 102.9 | 252.0 | 178.1 | 0.0 | 0.0 | 0.0 | 533.0 |
| Other Deciduous | 6.6 | 6.3 | 17.6 | 3.3 | 216.4 | 155.4 | 194.5 | 0.0 | 2.7 | 1.2 | 604.0 |
| Citrus-Olive | 0.0 | 0.0 | 18.0 | 158.4 | 27.1 | 8.6 | 201.0 | 0.0 | 0.0 | 36.6 | 449.7 |
| Grapes | 36.2 | 38.7 | 55.1 | 6.0 | 15.5 | 183.5 | 382.9 | 0.0 | 0.0 | 19.1 | 737.0 |
| **Total Crop Acres** | **287.2** | **62.8** | **570.6** | **306.1** | **2,139.6** | **2,072.5** | **3,090.7** | **145.8** | **61.2** | **747.5** | **9,484.1** |
| Double Crop | 0.0 | 0.2 | 143.1 | 29.7 | 45.7 | 63.7 | 66.8 | 0.0 | 0.0 | 115.5 | 464.6 |
| **Total Land Acres** | **287.2** | **62.6** | **427.5** | **276.5** | **2,093.9** | **2,008.8** | **3,023.9** | **145.8** | **61.2** | **632.1** | **9,019.5** |

## Table 9. 1994 Crop Acreages by County (1,000 acres)

| County | Grain | Rice | Cotton | Sugar Beets | Corn | Other Field | Alfalfa | Pas-ture | Toma-to | Other Truck | Al-Pist | Other Decid | Citrus Olive | Vine | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alameda | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 1.2 | 0.2 | 0.0 | 0.8 | 0.0 | 0.1 | 0.0 | 2.0 | 5.5 |
| Alpine | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.3 |
| Amador | 0.3 | 0.0 | 0.0 | 0.0 | 0.6 | 0.3 | 0.3 | 1.7 | 0.0 | 0.1 | 0.0 | 0.5 | 0.0 | 1.6 | 5.4 |
| Butte | 9.6 | 105.4 | 0.0 | 1.8 | 1.7 | 6.9 | 4.2 | 8.8 | 0.0 | 0.6 | 40.7 | 39.6 | 6.0 | 0.0 | 225.3 |
| Calaveras | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.6 | 0.0 | 0.1 | 0.0 | 0.7 | 0.0 | 0.3 | 1.8 |
| Colusa | 41.9 | 130.5 | 1.0 | 4.8 | 5.5 | 29.3 | 7.7 | 4.7 | 23.8 | 18.4 | 19.8 | 9.2 | 0.2 | 1.2 | 298.0 |
| Contra Costa | 4.5 | 0.0 | 0.0 | 0.0 | 9.8 | 3.4 | 3.2 | 4.7 | 4.2 | 3.2 | 0.0 | 5.2 | 0.0 | 0.8 | 39.0 |
| Del Norte | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.9 | 0.0 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 6.7 |
| El Dorado | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 0.0 | 0.2 | 0.0 | 2.4 | 0.0 | 0.9 | 5.6 |
| Fresno | 50.0 | 6.2 | 362.6 | 24.9 | 19.7 | 30.4 | 85.8 | 25.9 | 99.0 | 112.4 | 44.9 | 63.6 | 27.4 | 217.6 | 1,170.4 |
| Glenn | 31.1 | 86.4 | 0.0 | 9.0 | 13.2 | 15.0 | 19.3 | 22.9 | 1.0 | 4.5 | 17.7 | 15.7 | 5.2 | 1.4 | 242.4 |
| Humboldt | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 20.4 | 0.0 | 0.7 | 0.0 | 0.1 | 0.0 | 0.0 | 21.5 |
| Imperial | 63.9 | 0.0 | 8.4 | 34.4 | 5.7 | 86.4 | 198.5 | 43.7 | 4.4 | 116.1 | 0.0 | 0.8 | 7.6 | 0.0 | 570.0 |
| Inyo | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.6 | 7.1 | 0.0 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 11.0 |
| Kern | 56.8 | 0.0 | 293.5 | 9.9 | 6.5 | 17.3 | 89.8 | 4.5 | 4.9 | 77.0 | 106.8 | 23.2 | 44.9 | 86.5 | 821.7 |
| Kings | 66.8 | 0.0 | 268.9 | 5.9 | 16.9 | 39.6 | 36.0 | 10.1 | 11.8 | 8.5 | 7.3 | 16.6 | 0.8 | 4.0 | 493.2 |
| Lake | 0.4 | 1.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.4 | 3.0 | 0.0 | 0.1 | 0.1 | 8.2 | 0.0 | 2.2 | 15.6 |
| Lassen | 4.1 | 0.6 | 0.0 | 0.9 | 0.3 | 0.0 | 34.0 | 65.8 | 0.0 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 107.0 |
| Los Angeles | 1.5 | 0.0 | 0.0 | 0.0 | 0.3 | 0.3 | 4.2 | 0.5 | 0.0 | 5.8 | 0.0 | 1.7 | 2.1 | 0.0 | 16.4 |
| Madera | 23.3 | 0.0 | 44.1 | 0.6 | 12.8 | 6.8 | 34.8 | 7.6 | 0.4 | 6.4 | 61.4 | 19.3 | 8.1 | 85.6 | 311.2 |
| Marin | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 |
| Mariposa | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.0 | 0.7 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 0.1 | 1.7 |
| Mendocino | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 6.3 | 0.0 | 0.6 | 0.0 | 4.1 | 0.0 | 12.5 | 23.6 |
| Merced | 67.2 | 6.1 | 83.5 | 10.7 | 49.4 | 8.4 | 78.1 | 57.5 | 20.7 | 25.2 | 71.7 | 23.6 | 0.3 | 15.4 | 517.8 |
| Modoc | 16.2 | 1.1 | 0.0 | 3.5 | 0.0 | 0.0 | 43.8 | 80.6 | 0.0 | 10.5 | 0.0 | 0.0 | 0.0 | 0.0 | 155.7 |
| Mono | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.2 | 39.8 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 51.2 |
| Monterey | 5.8 | 0.0 | 0.0 | 1.5 | 0.0 | 5.9 | 2.1 | 0.9 | 3.4 | 248.5 | 0.0 | 0.8 | 1.1 | 31.3 | 301.3 |
| Napa | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 0.0 | 0.3 | 0.0 | 0.3 | 0.0 | 31.2 | 32.9 |
| Nevada | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.2 | 0.0 | 0.2 | 0.0 | 0.3 | 0.0 | 0.2 | 7.9 |
| Orange | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.7 | 0.0 | 0.4 | 0.8 | 8.4 | 0.0 | 0.0 | 3.5 | 0.0 | 14.7 |
| Placer | 1.5 | 16.9 | 0.0 | 0.0 | 0.0 | 1.2 | 0.0 | 26.9 | 0.0 | 0.0 | 0.0 | 3.7 | 0.0 | 0.2 | 50.4 |
| Plumas | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.8 | 31.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 36.1 |
| Riverside | 14.1 | 0.0 | 9.7 | 0.0 | 5.4 | 10.4 | 63.4 | 14.0 | 0.7 | 43.0 | 0.0 | 1.2 | 53.9 | 20.9 | 236.6 |
| Sacramento | 23.4 | 10.9 | 0.0 | 7.4 | 34.0 | 10.7 | 6.0 | 39.2 | 8.4 | 2.4 | 0.0 | 8.1 | 0.0 | 8.0 | 158.5 |
| San Benito | 9.1 | 0.0 | 0.0 | 0.7 | 0.0 | 1.9 | 1.7 | 0.9 | 2.2 | 16.7 | 0.0 | 7.0 | 0.0 | 1.7 | 41.9 |
| San Bernardino | 2.9 | 0.0 | 0.3 | 0.0 | 0.6 | 2.6 | 19.2 | 5.7 | 0.0 | 1.8 | 0.0 | 1.1 | 6.1 | 3.9 | 44.2 |
| San Diego | 0.2 | 0.0 | 0.0 | 0.0 | 0.4 | 0.2 | 0.3 | 3.1 | 2.5 | 12.8 | 0.0 | 1.7 | 62.5 | 0.2 | 83.9 |
| San Joaquin | 54.4 | 5.2 | 0.0 | 20.0 | 96.9 | 61.3 | 70.1 | 33.0 | 30.2 | 55.6 | 42.0 | 55.4 | 0.0 | 59.2 | 583.3 |
| San Luis Obispo | 1.7 | 0.0 | 0.0 | 0.0 | 0.2 | 1.4 | 12.0 | 6.0 | 0.2 | 35.7 | 0.0 | 1.5 | 2.3 | 10.3 | 71.4 |
| San Mateo | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 0.3 | 0.0 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.5 |
| Santa Barbara | 4.2 | 0.0 | 0.0 | 0.0 | 1.3 | 6.5 | 4.8 | 6.7 | 0.3 | 61.9 | 0.0 | 1.4 | 13.2 | 10.7 | 111.0 |

**Table 9. 1994 Crop Acreages by County** (1,000 acres)

| County | Grain | Rice | Cotton | Sugar Beets | Corn | Other Field | Alfalfa | Pas-ture | Toma-to | Other Truck | Al-Pist | Other Decid | Citrus Olive | Vine | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Santa Clara | 4.0 | 0.0 | 0.0 | 0.5 | 1.0 | 1.7 | 0.2 | 1.1 | 2.3 | 9.4 | 0.0 | 5.1 | 0.0 | 1.0 | 26.3 |
| Santa Cruz | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 0.8 | 0.0 | 17.5 | 0.0 | 3.8 | 0.0 | 0.2 | 22.5 |
| Shasta | 2.3 | 1.6 | 0.0 | 0.5 | 0.1 | 0.4 | 8.8 | 34.9 | 0.0 | 0.9 | 0.2 | 1.9 | 0.8 | 0.2 | 52.6 |
| Sierra | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 10.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 11.8 |
| Siskiyou | 32.1 | 0.0 | 0.0 | 2.0 | 0.1 | 0.1 | 43.6 | 68.9 | 0.0 | 8.2 | 0.0 | 0.0 | 0.0 | 0.0 | 155.0 |
| Solano | 34.2 | 0.0 | 0.0 | 9.6 | 18.8 | 15.7 | 22.7 | 18.6 | 22.9 | 1.8 | 1.4 | 11.6 | 0.0 | 2.3 | 159.6 |
| Sonoma | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 1.7 | 0.0 | 9.1 | 0.0 | 1.2 | 0.0 | 2.5 | 0.0 | 30.0 | 45.8 |
| Stanislaus | 33.4 | 3.3 | 0.0 | 0.1 | 48.4 | 40.0 | 41.5 | 65.3 | 14.3 | 35.5 | 76.4 | 46.7 | 0.2 | 15.0 | 420.1 |
| Sutter | 29.7 | 120.0 | 0.0 | 3.2 | 2.0 | 28.5 | 10.8 | 8.2 | 27.5 | 14.7 | 4.7 | 53.3 | 0.0 | 0.1 | 302.7 |
| Tehama | 7.5 | 2.4 | 0.0 | 0.5 | 2.6 | 3.3 | 5.3 | 29.0 | 0.0 | 0.6 | 7.9 | 25.7 | 14.9 | 0.1 | 99.8 |
| Trinity | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 |
| Tulare | 98.7 | 0.0 | 140.0 | 3.8 | 75.3 | 12.1 | 79.3 | 10.9 | 1.3 | 13.6 | 19.6 | 92.3 | 127.9 | 74.9 | 749.7 |
| Tuolumne | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.7 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 0.1 | 3.0 |
| Ventura | 0.1 | 0.0 | 0.0 | 0.0 | 1.2 | 0.3 | 0.5 | 2.2 | 2.2 | 48.4 | 0.0 | 0.2 | 60.6 | 0.0 | 115.6 |
| Yolo | 61.3 | 20.3 | 0.0 | 6.8 | 19.7 | 60.2 | 33.7 | 9.9 | 76.8 | 13.1 | 8.6 | 15.0 | 0.0 | 2.7 | 328.1 |
| Yuba | 1.1 | 36.5 | 0.0 | 0.0 | 1.1 | 1.0 | 0.9 | 14.3 | 0.0 | 0.0 | 1.8 | 28.5 | 0.0 | 0.4 | 85.6 |
| **Totals** | **861.5** | **554.4** | **1,212.0** | **163.0** | **453.5** | **513.8** | **1,086.7** | **897.0** | **366.3** | **1,052.2** | **533.0** | **604.0** | **449.7** | **737.0** | **9,484.1** |

**Table 10. 1994 Irrigated Crops Compared with 1993** (1,000 acres)

| Crop | 1994 | 1993 | Change | Percentage |
|---|---|---|---|---|
| Grain | 861.5 | 858.3 | 3 | 0 |
| Rice | 554.4 | 502.5 | 52 | 10 |
| Cotton | 1,212.0 | 1,212.2 | 0 | 0 |
| Sugar Beets | 163.0 | 172.3 | -9 | -5 |
| Corn | 453.5 | 439.0 | 14 | 3 |
| Other Field | 513.8 | 519.1 | -5 | -1 |
| Alfalfa | 1,086.7 | 1,030.5 | 56 | 5 |
| Pasture | 897.0 | 909.4 | -12 | -1 |
| Tomatoes | 366.3 | 333.9 | 32 | 10 |
| Other Truck | 1,052.2 | 1,032.5 | 20 | 2 |
| Almond-Pistachio | 533.0 | 512.3 | 21 | 4 |
| Other Deciduous | 604.0 | 592.9 | 11 | 2 |
| Citrus-Olive | 449.7 | 447.5 | 2 | 1 |
| Grapes | 737.0 | 731.6 | 5 | 1 |
| **Total Crop Acres** | **9,484.1** | **9,293.9** | **190** | **2** |
| Double Crop | 464.6 | 419.3 | 45 | 11 |
| **Total Irrigated Acres** | **9,019.5** | **8,874.6** | **145** | **2** |

## Water Use and Supplies

Urban water use is water produced for all urban needs including residential, commercial, industrial, and landscape uses. It is primarily measured at the intake of the water supplier's system and is equivalent to the amount of water delivered to customers plus losses from the delivery system. Urban water use data were analyzed on a per capita basis. For a defined service area, applied water is divided by the population to compute per-capita use. Figure 5 compares monthly per capita use for 1994 to the 1993 average by hydrologic region. Per capita use during 1994 averaged 9 percent more than the 1993 average (see Table 12). This was probably the result of the relaxation of drought mitigation programs designed to reduce demands during the drought.

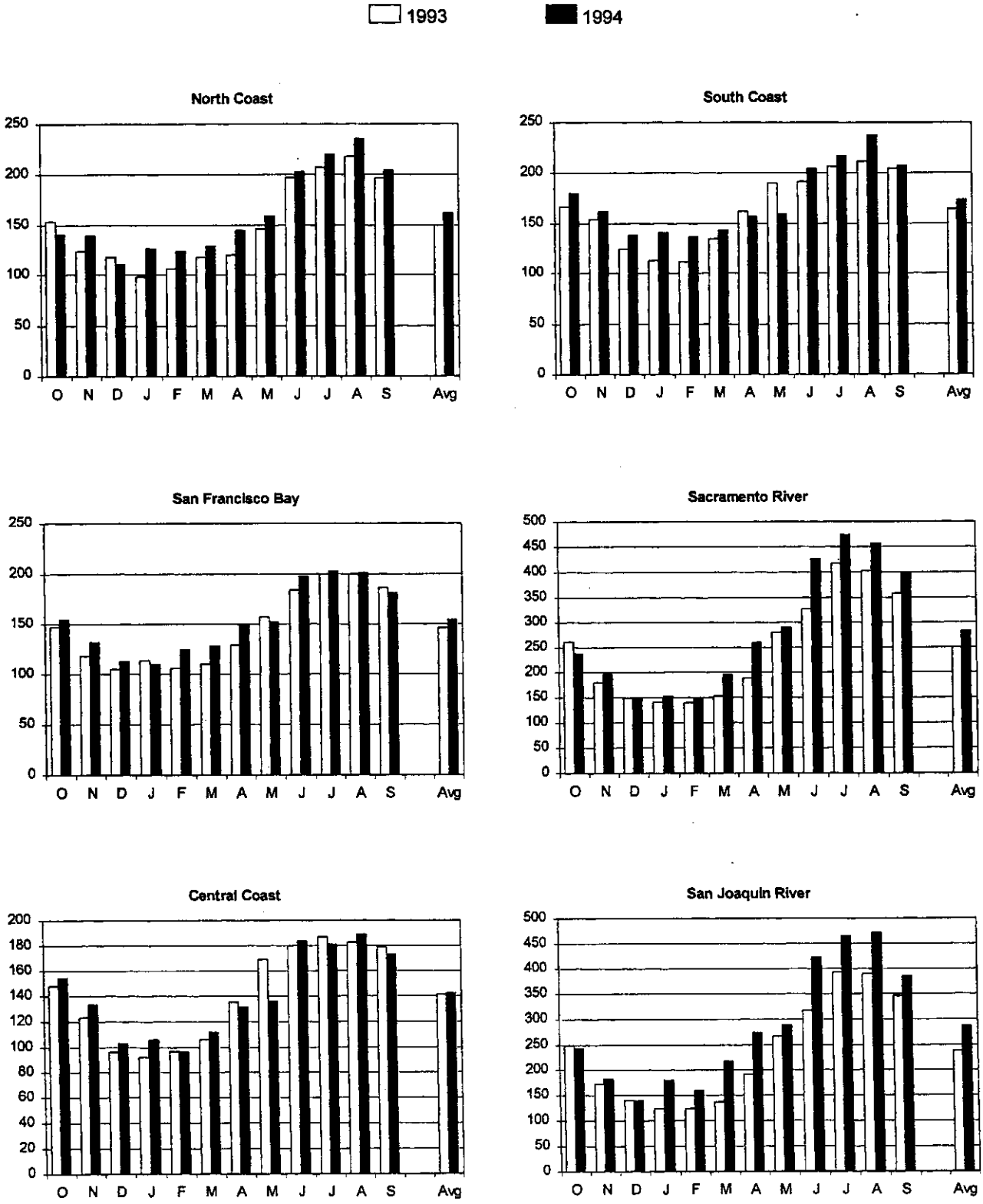
Environmental water use consists of: (1) instream fish flows, (2) Wild and Scenic rivers flows, (3) required Delta outflow (D1485), and (4) wetlands water use. Instream fish flows for 1994 consist of the actual flows released by project operators to meet the requirements of existing water rights permits, court decisions, congressional directives, and laws or agreements between government agencies. Instream flow requirements generally vary by year type; hence, since 1994 was below normal, actual instream flows were lower than 1993 levels (see Table 11). Wild and Scenic flows for the North Coast rivers were estimated from Bulletin 120 data at 7,369,000 acre-feet (see Table 13). The 1994 Delta outflow as required under D1485 was estimated using DAYFLOW daily data, operational data for the Delta condition of balance or surplus, and the D1485 criteria for a critical year in the Delta (Table 14). Dedicated natural flows for 1994 were 17.5 million acre-feet. Wetlands use for 1994 is tabulated in Table 15.

Water use in 1994 by urban, agricultural, environmental and other sectors is tabulated in Tables 16, 17, and 18. For this report, both the net water budgets and the applied water budgets were tabulated. See Tables 22 through 24 for the net and applied water budget data.

**Table 11. 1994 Instream Fish Flows** (1,000 acre-feet)

| River | Applied Water | Net Water | Depletions |
|---|---|---|---|
| Klamath | 651.0 | 651.0 | 651.0 |
| Trinity | 343.0 | 343.0 | 343.0 |
| Mad | 41.4 | 41.4 | 41.4 |
| Eel | 70.3 | 34.0 | 0.0 |
| Russian | 160.9 | 90.0 | 90.0 |
| Lagunitas Creek | 9.9 | 9.9 | 9.9 |
| Walker Creek | 5.9 | 5.9 | 5.9 |
| Carmel | 1.7 | 0.0 | 0.0 |
| San Antonio | 2.1 | 0.0 | 0.0 |
| Nacimiento | 2.5 | 0.0 | 0.0 |
| Salinas | 2.0 | 0.0 | 0.0 |
| Piru | 3.6 | 0.0 | 0.0 |
| Sacramento | 2,115.0 | 2,115.0 | 0.0 |
| Clear Creek | 42.0 | 42.0 | 0.0 |
| Cache Creek | 5.7 | 0.0 | 0.0 |
| Putah Creek | 7.0 | 0.0 | 0.0 |
| Feather | 982.0 | 982.0 | 0.0 |
| Yuba | 280.0 | 174.0 | 0.0 |
| Bear | 10.0 | 10.0 | 0.0 |
| American | 929.0 | 929.0 | 0.0 |
| Mokelumne | 99.9 | 99.9 | 0.0 |
| Stanislaus | 309.5 | 309.5 | 0.0 |
| Tuolumne | 112.0 | 112.0 | 0.0 |
| Merced | 93.0 | 93.0 | 0.0 |
| Mono | 86.7 | 86.7 | 86.7 |
| Owens | 21.4 | 0.0 | 0.0 |
| **Total** | **6,387.5** | **6,128.3** | **1,227.9** |

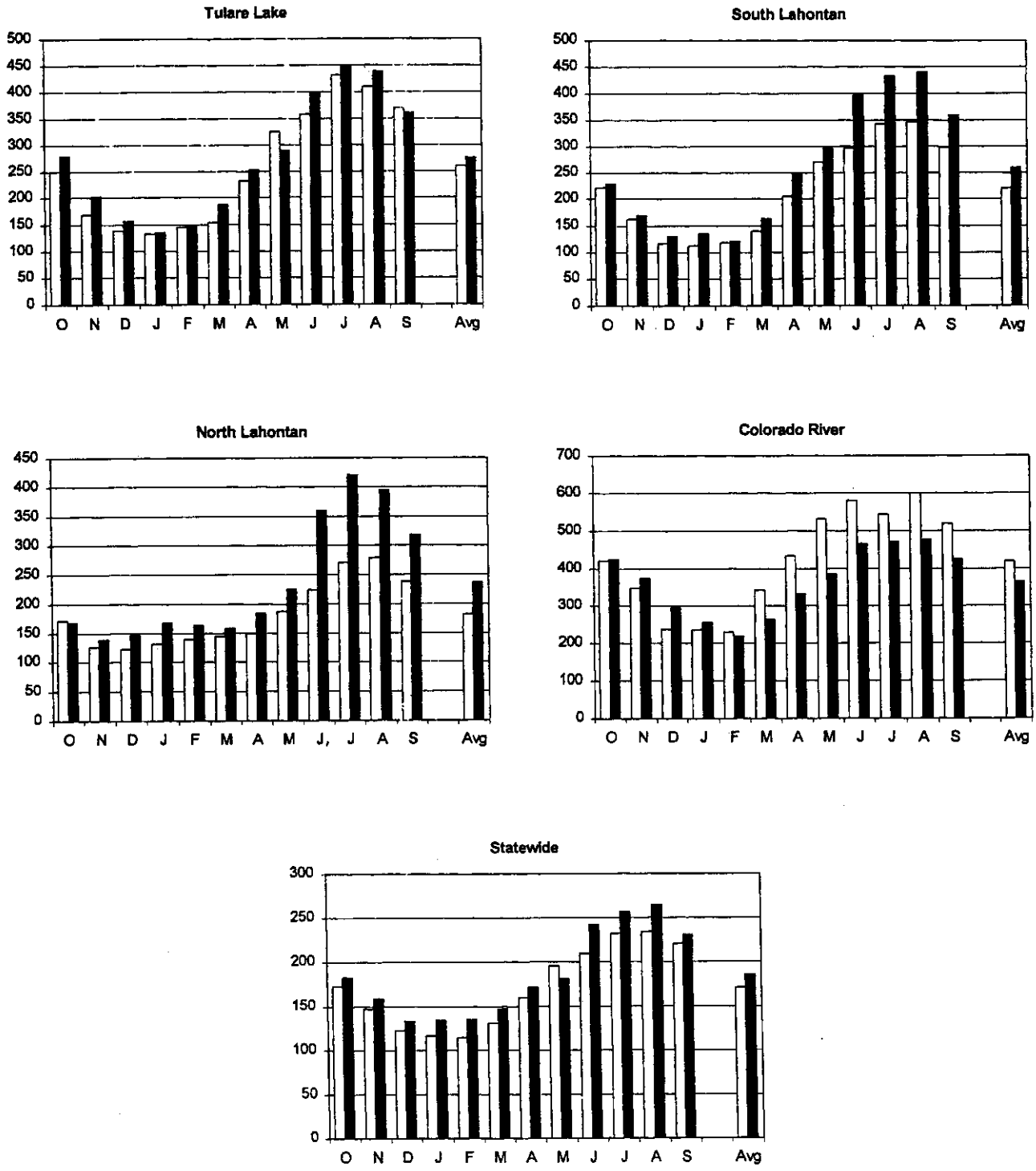
**Figure 5. Per Capita Water Use by Hydrologic Region, Water Years 1993 and 1994***
Gallons Per Capita Daily by Month




* Based on data from 265 urban water suppliers. Data does not include self-produced groundwater supplies.

**Figure 5. (continued) Per Capita Water Use by Hydrologic Region, Water Years 1993 and 1994***

Gallons Per Capita Daily by Month




* Based on data from 265 urban water suppliers. Data does not include self-produced groundwater supplies.

## Table 12. Per Capita Water Use by Region-1993 & 1994 (GPCD)

| Region | 1993 | 1994 |
|---|---|---|
| NC | 150 | 162 |
| SF | 146 | 154 |
| CC | 141 | 142 |
| SC | 164 | 173 |
| SR | 250 | 282 |
| SJ | 238 | 286 |
| TL | 260 | 275 |
| NL | 182 | 237 |
| SL | 220 | 260 |
| CR | 419 | 366 |
| **CA** | **171** | **186** |

## Table 13. 1994 Wild and Scenic Rivers Flows (1,000 acre-feet)

| | Average taf | 1994 | |
|---|---|---|---|
| | | % | taf |
| Eel River at Mouth | 6,273 | | |
| Less Van Arsdale | 465 | | |
| **Subtotal** | **5,808** | **41** | **2,399** |
| Klamath River at Mouth | 12,982 | | |
| Less Copco | 2,008 | | |
| Less Lewiston | 1,273 | | |
| Less Scott R | 417 | | |
| Less Shasta R | 201 | | |
| **Subtotal** | **9,083** | **40** | **3,615** |
| Smith River at Mouth | 2,927 | 46 | 1,355 |
| **Total** | **17,818** | | **7,369** |

## Table 14. 1994 Delta Outflow (1,000 acre-feet)

| | Total | D1485 |
|---|---|---|
| Oct | 316 | 219 |
| Nov | 439 | 398 |
| Dec | 760 | 354 |
| Jan | 663 | 277 |
| Feb | 1,142 | 250 |
| Mar | 653 | 277 |
| Apr | 490 | 460 |
| May | 493 | 493 |
| Jun | 233 | 233 |
| Jul | 279 | 279 |
| Aug | 210 | 210 |
| Sep | 331 | 331 |
| **Water Year** | **6,010** | **3,781** |

NOTE: Total Delta outflow is the computed Delta outflow from DAYFLOW. D1485 is the estimated component of Total Delta outflow used to meet D1485 standards using DAYFLOW value when the Delta is in balance and the D1485 required flow when Delta is not in balance.

**Table 15. Wetlands Water Use** (1,000 acre-feet)

| Wetland | Applied Water | Net Water | Depletion |
|---|---|---|---|
| Lower Klamath NWR | 81.1 | 81.1 | 43.4 |
| Clear Lake NWR | 83.4 | 83.4 | 52.4 |
| Tule Lake NWR | 76.8 | 76.8 | 39.5 |
| Butte Valley WA | 10.2 | 10.2 | 10.2 |
| Shasta Valley WA | 3.9 | 3.2 | 2.2 |
| Arcata Marsh | 2.0 | 2.0 | 2.0 |
| Modoc NWR | 19.5 | 17.2 | 15.2 |
| Ash Creek | 12.9 | 12.3 | 12.2 |
| Sacramento NWR | 27.9 | 26.8 | 11.6 |
| Colusa NWR | 11.7 | 11.3 | 4.4 |
| Delevan NWR | 18.9 | 18.1 | 8.4 |
| Colusa Basin Private | 95.7 | 89.0 | 35.7 |
| Gray Lodge WA | 44.0 | 40.0 | 21.3 |
| Upper Butte Basin | 56.3 | 52.5 | 28.0 |
| Butte Basin Private | 120.0 | 94.3 | 43.6 |
| Honey Lake WA | 14.3 | 14.3 | 14.3 |
| Willow Creek WA | 2.5 | 2.5 | 2.5 |
| Butte Sink NWR | 2.2 | 0.5 | 0.5 |
| Sutter NWR | 9.1 | 4.3 | 4.3 |
| American Basin | 30.7 | 30.7 | 7.4 |
| Sutter Basin | 15.8 | 15.8 | 4.4 |
| Yolo Basin | 24.0 | 21.7 | 6.2 |
| Sherman Island | 9.3 | 9.3 | 1.9 |
| Suisun Marsh | 154.0 | 154.0 | 154.0 |
| Hayward Marsh | 10.0 | 10.0 | 10.0 |
| Delta | 40.0 | 40.0 | 7.4 |
| San Luis NWR | 21.2 | 9.0 | 8.0 |
| Volta WA | 12.8 | 10.0 | 7.0 |
| Los Banos WA | 13.7 | 11.0 | 8.0 |
| Kesterson NWR | 14.2 | 6.0 | 6.0 |
| Grassland RCD | 106.8 | 85.0 | 50.0 |
| North Grasslands WA | 9.1 | 7.0 | 6.0 |
| Merced NWR | 11.3 | 7.0 | 7.0 |
| Kern NWR | 17.6 | 14.0 | 14.0 |
| Tulare Basin Private | 5.4 | 4.0 | 4.0 |
| Pixley NWR | 0.9 | 0.7 | 0.7 |
| Mendota WA | 29.9 | 24.0 | 13.0 |
| San Jacinto WA | 2.5 | 2.5 | 2.5 |
| Temescal Creek | 0.9 | 0.0 | 0.0 |
| Santee Lakes | 0.5 | 0.5 | 0.5 |
| Sepulvada Pond | 7.4 | 7.4 | 7.4 |
| Lake Balboa | 15.2 | 15.2 | 15.2 |
| Research Facility | 1.1 | 0.0 | 0.0 |
| Sepulvada Japanese Garden | 4.9 | 4.9 | 4.9 |
| Salton Sea NWR | 6.9 | 6.9 | 6.9 |
| Imperial WA | 24.9 | 24.9 | 24.9 |
| Private | 5.4 | 5.4 | 5.4 |
| **Total** | **1,288.7** | **1,166.7** | **734.4** |

**Table 16. 1994 Water Use in California by Planning Subarea** (1,000 acre-feet)

| North Coast | Upper Klamath | Lower Klamath | Coastal | Russian River | Total |
|---|---|---|---|---|---|
| **Urban** | | | | | |
| AW | 13 | 14 | 42 | 72 | 141 |
| NWU | 13 | 14 | 42 | 72 | 141 |
| Depletion | 9 | 10 | 36 | 22 | 77 |
| **Agriculture** | | | | | |
| AW | 571 | 32 | 64 | 82 | 749 |
| NWU | 355 | 30 | 63 | 82 | 530 |
| Depletion | 307 | 24 | 51 | 61 | 443 |
| **Environmental** | | | | | |
| AW | 255 | 5,964 | 2,512 | 161 | 8,893 |
| NWU | 255 | 5,964 | 2,476 | 90 | 8,785 |
| Depletion | 148 | 5,964 | 2,442 | 90 | 8,644 |
| **Other** | | | | | |
| AW | 34 | 1 | 0 | 0 | 34 |
| NWU | 20 | 0 | 0 | 0 | 20 |
| Depletion | 10 | 0 | 0 | 0 | 10 |
| **Totals** | | | | | |
| AW | 872 | 6,011 | 2,619 | 316 | 9,817 |
| NWU | 642 | 6,008 | 2,581 | 244 | 9,476 |
| Depletion | 474 | 5,998 | 2,528 | 173 | 9,173 |

| San Francisco | North Bay | South Bay | Total |
|---|---|---|---|
| **Urban** | | | |
| AW | 153 | 920 | 1,072 |
| NWU | 153 | 920 | 1,072 |
| Depletion | 46 | 874 | 919 |
| **Agriculture** | | | |
| AW | 62 | 30 | 92 |
| NWU | 62 | 30 | 92 |
| Depletion | 46 | 24 | 70 |
| **Environmental** | | | |
| AW | 3,951 | 10 | 3,961 |
| NWU | 3,951 | 10 | 3,961 |
| Depletion | 3,951 | 10 | 3,961 |
| **Other** | | | |
| AW | 0 | 0 | 0 |
| NWU | 0 | 0 | 0 |
| Depletion | 0 | 0 | 0 |
| **Totals** | | | |
| AW | 4,166 | 960 | 5,125 |
| NWU | 4,166 | 960 | 5,125 |
| Depletion | 4,043 | 907 | 4,950 |

**Table 16. (continued) 1994 Water Use in California by Planning Subarea** (1,000 acre-feet)

| Central Coast | Northern | Southern | Total |
|---|---|---|---|
| **Urban** | | | |
| AW | 154 | 121 | 275 |
| NWU | 131 | 99 | 230 |
| Depletion | 118 | 79 | 198 |
| **Agriculture** | | | |
| AW | 798 | 455 | 1,254 |
| NWU | 601 | 356 | 958 |
| Depletion | 591 | 356 | 947 |
| **Environmental** | | | |
| AW | 4 | 5 | 8 |
| NWU | 0 | 0 | 0 |
| Depletion | 0 | 0 | 0 |
| **Other** | | | |
| AW | 2 | 0 | 2 |
| NWU | 2 | 0 | 2 |
| Depletion | 2 | 0 | 2 |
| **Totals** | | | |
| AW | 959 | 581 | 1,539 |
| NWU | 735 | 455 | 1,190 |
| Depletion | 711 | 435 | 1,147 |

| South Coast | Santa Clara | Metro LA | Santa Ana | San Diego | Total |
|---|---|---|---|---|---|
| **Urban** | | | | | |
| AW | 174 | 1,674 | 1,066 | 574 | 3,488 |
| NWU | 148 | 1,609 | 867 | 566 | 3,190 |
| Depletion | 142 | 1,522 | 743 | 538 | 2,945 |
| **Agriculture** | | | | | |
| AW | 205 | 15 | 260 | 294 | 774 |
| NWU | 179 | 13 | 213 | 282 | 687 |
| Depletion | 179 | 13 | 213 | 282 | 687 |
| **Environmental** | | | | | |
| AW | 4 | 28 | 5 | 1 | 36 |
| NWU | 0 | 28 | 3 | 1 | 31 |
| Depletion | 0 | 28 | 3 | 1 | 31 |
| **Other** | | | | | |
| AW | 10 | 57 | 50 | 37 | 154 |
| NWU | 10 | 57 | 50 | 37 | 154 |
| Depletion | 10 | 57 | 50 | 37 | 154 |
| **Totals** | | | | | |
| AW | 393 | 1,773 | 1,381 | 906 | 4,452 |
| NWU | 337 | 1,707 | 1,133 | 885 | 4,062 |
| Depletion | 331 | 1,619 | 1,008 | 858 | 3,817 |

**Table 16. (continued) 1994 Water Use in California by Planning Subarea** (1,000 acre-feet)

| Sacramento River | Shasta Pit | NW Valley | NE Valley | C Basin W | C Basin E | S.E. | S.W. | Delta SA | Total |
|---|---|---|---|---|---|---|---|---|---|
| **Urban** | | | | | | | | | |
| AW | 14 | 57 | 60 | 78 | 448 | 74 | 6 | 20 | 756 |
| NWU | 14 | 57 | 60 | 78 | 448 | 74 | 6 | 20 | 756 |
| Depletion | 9 | 24 | 30 | 28 | 162 | 31 | 4 | 7 | 293 |
| **Agriculture** | | | | | | | | | |
| AW | 454 | 462 | 256 | 2,705 | 3,168 | 349 | 65 | 432 | 7,890 |
| NWU | 392 | 455 | 249 | 2,043 | 2,868 | 318 | 67 | 360 | 6,752 |
| Depletion | 326 | 290 | 201 | 1,721 | 1,871 | 222 | 45 | 292 | 4,967 |
| **Environmental** | | | | | | | | | |
| AW | 2,147 | 42 | 0 | 185 | 1,497 | 982 | 6 | 9 | 4,869 |
| NWU | 2,145 | 42 | 0 | 167 | 1,351 | 982 | 0 | 9 | 4,696 |
| Depletion | 27 | 0 | 0 | 66 | 110 | 0 | 0 | 2 | 205 |
| **Other** | | | | | | | | | |
| AW | 26 | 61 | 34 | 165 | 140 | 16 | 4 | 0 | 445 |
| NWU | 0 | 43 | 22 | 138 | 99 | 0 | 0 | 0 | 302 |
| Depletion | 0 | 5 | 3 | 23 | 15 | 0 | 0 | 0 | 46 |
| **Totals** | | | | | | | | | |
| AW | 2,642 | 621 | 351 | 3,132 | 5,253 | 1,421 | 80 | 461 | 13,960 |
| NWU | 2,551 | 596 | 331 | 2,426 | 4,766 | 1,373 | 73 | 390 | 12,505 |
| Depletion | 362 | 319 | 234 | 1,838 | 2,157 | 252 | 49 | 301 | 5,511 |

| San Joaquin River | Sierra Foothill | E Vly Floor | Delta Srv Area | Western Uplands | E Side Uplands | Valley E Side | Valley W Side | Total |
|---|---|---|---|---|---|---|---|---|
| **Urban** | | | | | | | | |
| AW | 54 | 83 | 34 | 41 | 16 | 305 | 22 | 554 |
| NWU | 54 | 83 | 32 | 40 | 9 | 160 | 12 | 390 |
| Depletion | 16 | 25 | 10 | 12 | 9 | 146 | 12 | 230 |
| **Agriculture** | | | | | | | | |
| AW | 37 | 901 | 789 | 47 | 7 | 3,219 | 1,378 | 6,377 |
| NWU | 36 | 824 | 741 | 45 | 4 | 2,859 | 1,263 | 5,772 |
| Depletion | 18 | 589 | 528 | 27 | 4 | 2,311 | 1,113 | 4,590 |
| **Environmental** | | | | | | | | |
| AW | 112 | 426 | 23 | 0 | 0 | 104 | 178 | 843 |
| NWU | 112 | 426 | 23 | 0 | 0 | 100 | 128 | 789 |
| Depletion | 0 | 3 | 4 | 0 | 0 | 7 | 85 | 99 |
| **Other** | | | | | | | | |
| AW | 0 | 0 | 0 | 0 | 1 | 494 | 300 | 795 |
| NWU | 0 | 0 | 0 | 0 | 0 | 12 | 103 | 115 |
| Depletion | 0 | 0 | 0 | 0 | 0 | 12 | 103 | 115 |
| **Totals** | | | | | | | | |
| AW | 203 | 1,411 | 845 | 88 | 23 | 4,122 | 1,878 | 8,569 |
| NWU | 202 | 1,333 | 796 | 85 | 13 | 3,131 | 1,506 | 7,066 |
| Depletion | 34 | 617 | 542 | 39 | 13 | 2,476 | 1,313 | 5,034 |

**Table 16. (continued) 1994 Water Use In California by Planning Subarea** (1,000 acre-feet)

| Tulare Lake | Uplands | KKT | San Luis West Side | Western Uplands | Kern Vly Floor | Total |
|---|---|---|---|---|---|---|
| **Urban** | | | | | | |
| AW | 20 | 360 | 20 | 2 | 290 | 691 |
| NWU | 12 | 152 | 13 | 1 | 165 | 342 |
| Depletion | 12 | 152 | 13 | 1 | 165 | 342 |
| **Agriculture** | | | | | | |
| AW | 28 | 5,141 | 1,363 | 0 | 2,487 | 9,019 |
| NWU | 19 | 4,013 | 1,356 | 0 | 2,067 | 7,454 |
| Depletion | 19 | 3,993 | 1,356 | 0 | 2,067 | 7,435 |
| **Environmental** | | | | | | |
| AW | 0 | 31 | 0 | 0 | 23 | 54 |
| NWU | 0 | 25 | 0 | 0 | 18 | 43 |
| Depletion | 0 | 14 | 0 | 0 | 18 | 32 |
| **Other** | | | | | | |
| AW | 2 | 504 | 25 | 0 | 184 | 715 |
| NWU | 0 | 51 | 25 | 0 | 87 | 164 |
| Depletion | 0 | 51 | 25 | 0 | 65 | 141 |
| **Totals** | | | | | | |
| AW | 50 | 6,036 | 1,408 | 2 | 2,983 | 10,479 |
| NWU | 31 | 4,240 | 1,395 | 1 | 2,336 | 8,002 |
| Depletion | 31 | 4,209 | 1,395 | 1 | 2,314 | 7,949 |

| North Lahontan | Lassen Group | Alpine Group | Total |
|---|---|---|---|
| **Urban** | | | |
| AW | 18 | 23 | 41 |
| NWU | 18 | 23 | 41 |
| Depletion | 11 | 5 | 15 |
| **Agriculture** | | | |
| AW | 283 | 177 | 460 |
| NWU | 266 | 177 | 443 |
| Depletion | 257 | 98 | 355 |
| **Environmental** | | | |
| AW | 17 | 0 | 17 |
| NWU | 17 | 0 | 17 |
| Depletion | 17 | 0 | 17 |
| **Other** | | | |
| AW | 14 | 0 | 14 |
| NWU | 0 | 0 | 0 |
| Depletion | 0 | 0 | 0 |
| **Totals** | | | |
| AW | 332 | 201 | 532 |
| NWU | 301 | 201 | 501 |
| Depletion | 285 | 102 | 387 |

**Table 16. (continued) 1994 Water Use In California by Planning Subarea** (1,000 acre-feet)

| South Lahontan | Mono Owens | Death Valley | Indian Wells | Antelope Valley | Mojave River | Total |
|---|---|---|---|---|---|---|
| **Urban** | | | | | | |
| AW | 12 | 3 | 15 | 86 | 81 | 197 |
| NWU | 7 | 3 | 9 | 58 | 53 | 130 |
| Depletion | 7 | 3 | 9 | 58 | 53 | 130 |
| **Agriculture** | | | | | | |
| AW | 138 | 11 | 12 | 66 | 90 | 316 |
| NWU | 126 | 10 | 11 | 62 | 79 | 287 |
| Depletion | 126 | 10 | 11 | 62 | 79 | 287 |
| **Environmental** | | | | | | |
| AW | 108 | 0 | 0 | 0 | 0 | 108 |
| NWU | 87 | 0 | 0 | 0 | 0 | 87 |
| Depletion | 87 | 0 | 0 | 0 | 0 | 87 |
| **Other** | | | | | | |
| AW | 0 | 0 | 0 | 5 | 1 | 5 |
| NWU | 0 | 0 | 0 | 5 | 1 | 5 |
| Depletion | 0 | 0 | 0 | 5 | 1 | 5 |
| **Totals** | | | | | | |
| AW | 258 | 14 | 27 | 156 | 171 | 626 |
| NWU | 219 | 13 | 20 | 124 | 133 | 509 |
| Depletion | 219 | 13 | 20 | 124 | 133 | 509 |

| Colorado River | 29 Palms-Lanfair | Chuck-walla | Colo River | Coachella | Borrego | Imperial Valley | Total |
|---|---|---|---|---|---|---|---|
| **Urban** | | | | | | | |
| AW | 12 | 1 | 16 | 214 | 3 | 110 | 355 |
| NWU | 7 | 0 | 11 | 167 | 2 | 110 | 297 |
| Depletion | 7 | 0 | 11 | 167 | 2 | 98 | 284 |
| **Agriculture** | | | | | | | |
| AW | 20 | 15 | 627 | 331 | 36 | 2,556 | 3,585 |
| NWU | 18 | 14 | 501 | 266 | 36 | 2,556 | 3,391 |
| Depletion | 18 | 14 | 501 | 266 | 36 | 2,556 | 3,391 |
| **Environmental** | | | | | | | |
| AW | 0 | 0 | 0 | 0 | 0 | 37 | 37 |
| NWU | 0 | 0 | 0 | 0 | 0 | 37 | 37 |
| Depletion | 0 | 0 | 0 | 0 | 0 | 37 | 37 |
| **Other** | | | | | | | |
| AW | 0 | 0 | 0 | 40 | 0 | 320 | 360 |
| NWU | 0 | 0 | 0 | 40 | 0 | 320 | 360 |
| Depletion | 0 | 0 | 0 | 40 | 0 | 320 | 360 |
| **Totals** | | | | | | | |
| AW | 32 | 15 | 644 | 585 | 39 | 3,023 | 4,338 |
| NWU | 25 | 14 | 512 | 472 | 38 | 3,023 | 4,084 |
| Depletion | 25 | 14 | 512 | 472 | 38 | 3,011 | 4,072 |

**Table 17. Water Use In California by Region** (1,000 acre-feet)

| | NC | SF | CC | SC | SR | SJ | TL | NL | SL | CR | CA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Urban** | | | | | | | | | | | |
| AW | 141 | 1,072 | 275 | 3,488 | 756 | 554 | 691 | 41 | 197 | 355 | 7,570 |
| NWU | 141 | 1,072 | 230 | 3,190 | 756 | 390 | 342 | 41 | 130 | 297 | 6,589 |
| Depletion | 77 | 919 | 198 | 2,945 | 293 | 230 | 342 | 15 | 130 | 284 | 5,433 |
| **Agriculture** | | | | | | | | | | | |
| AW | 749 | 92 | 1,254 | 774 | 7,890 | 6,377 | 9,019 | 460 | 316 | 3,585 | 30,517 |
| NWU | 530 | 92 | 958 | 687 | 6,752 | 5,772 | 7,454 | 443 | 287 | 3,391 | 26,365 |
| Depletion | 443 | 70 | 947 | 687 | 4,967 | 4,590 | 7,435 | 355 | 287 | 3,391 | 23,171 |
| **Environmental** | | | | | | | | | | | |
| AW | 8,893 | 3,961 | 8 | 36 | 4,869 | 843 | 54 | 17 | 108 | 37 | 18,826 |
| NWU | 8,785 | 3,961 | 0 | 31 | 4,696 | 789 | 43 | 17 | 87 | 37 | 18,445 |
| Depletion | 8,644 | 3,961 | 0 | 31 | 205 | 99 | 32 | 17 | 87 | 37 | 13,112 |
| **Other** | | | | | | | | | | | |
| AW | 34 | 0 | 2 | 154 | 445 | 795 | 715 | 14 | 5 | 360 | 2,525 |
| NWU | 20 | 0 | 2 | 154 | 302 | 115 | 164 | 0 | 5 | 360 | 1,122 |
| Depletion | 10 | 0 | 2 | 154 | 46 | 115 | 141 | 0 | 5 | 360 | 833 |
| **Totals** | | | | | | | | | | | |
| AW | 9,817 | 5,125 | 1,539 | 4,452 | 13,960 | 8,569 | 10,479 | 532 | 626 | 4,338 | 59,437 |
| NWU | 9,476 | 5,125 | 1,190 | 4,062 | 12,505 | 7,066 | 8,002 | 501 | 509 | 4,084 | 52,521 |
| Depletion | 9,173 | 4,950 | 1,147 | 3,817 | 5,511 | 5,034 | 7,949 | 387 | 509 | 4,072 | 42,549 |

**Table 18. Environmental Water Use in California by Region** (1,000 acre-feet)

| Environmental | NC | SF | CC | SC | SR | SJ | TL | NL | SL | CR | CA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Instream** | | | | | | | | | | | |
| AW | 1,267 | 16 | 8 | 4 | 4,371 | 614 | 0 | 0 | 108 | 0 | 6,388 |
| NWU | 1,159 | 16 | 0 | 0 | 4,252 | 614 | 0 | 0 | 87 | 0 | 6,128 |
| Depletion | 1,125 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 87 | 0 | 1,228 |
| **Refuges** | | | | | | | | | | | |
| AW | 257 | 164 | 0 | 33 | 498 | 229 | 54 | 17 | 0 | 37 | 1,289 |
| NWU | 257 | 164 | 0 | 31 | 444 | 175 | 43 | 17 | 0 | 37 | 1,167 |
| Depletion | 150 | 164 | 0 | 31 | 205 | 99 | 32 | 17 | 0 | 37 | 734 |
| **Wild & Scenic** | | | | | | | | | | | |
| AW | 7,369 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7,369 |
| NWU | 7,369 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7,369 |
| Depletion | 7,369 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7,369 |
| **D1485** | | | | | | | | | | | |
| AW | 0 | 3,781 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3,781 |
| NWU | 0 | 3,781 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3,781 |
| Depletion | 0 | 3,781 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3,781 |
| **Total** | | | | | | | | | | | |
| AW | 8,893 | 3,961 | 8 | 36 | 4,869 | 843 | 54 | 17 | 108 | 37 | 18,826 |
| NWU | 8,785 | 3,961 | 0 | 31 | 4,696 | 789 | 43 | 17 | 87 | 37 | 18,445 |
| Depletion | 8,644 | 3,961 | 0 | 31 | 205 | 99 | 32 | 17 | 87 | 37 | 13,112 |

**Table 19. Water Year 1994 State Water Project Delivery Summary** (1,000 acre-feet)

| | Region | SWP | Non-SWP | Total | Region Total |
|---|---|---|---|---|---|
| Napa Co FC&WCD | SF | 7,417 | | 7,417 | 157,594 |
| Solano Co WA | | 17,691 | | 17,691 | |
| Alameda Co FC&WCD | | 26,635 | 8,517 | 35,152 | |
| Alameda Co WD | | 27,260 | | 27,260 | |
| Santa Clara Valley WD | | 57,748 | 12,326 | 70,074 | |
| San Luis Obispo Co FC&WD | CC | 0 | 0 | 0 | |
| Santa Barbara Co FC&WCD | | 0 | 0 | | |
| San Bernardino Valley MWD | SC | 11,108 | | 11,108 | 821,268 |
| San Gabriel Valley MWD | | 15,338 | | 15,338 | |
| San Gorgonio Pass WA | | 0 | | 0 | |
| Ventura Co FCD | | 0 | | 0 | |
| Castaic Lake WA | | 14,597 | | 14,597 | |
| Metropolitan WD | | 780,145 | 80 | 780,225 | |
| City of Yuba City | SR | 1,035 | | 1,035 | 1,833 |
| County of Butte | | 323 | | 323 | |
| Plumas Co FC&WCD | | 475 | | 475 | |
| Oak Flat WD | SJ | 3,189 | 498 | 3,687 | 3,687 |
| Empire West Side ID | TL | 4,258 | | 4,258 | 1,153,522 |
| Tulare Lake Basin WSD | | 136,577 | 13,007 | 149,584 | |
| Dudley Ridge WD | | 35,229 | 1,450 | 36,679 | |
| Kern Co WA | | 877,210 | 40,378 | 917,588 | |
| Castaic Lake WA (Devils Den) | | 9,647 | | 9,647 | |
| County of Kings | | 3,066 | | 3,066 | |
| Westlands | | 32,700 | | 32,700 | |
| Littlerock Creek ID | SL | 1,297 | | 1,297 | 74,664 |
| Crestline-Lake Arrowhead WA | | 238 | | 238 | |
| Antelope Valley-East Kern WA | | 50,211 | | 50,211 | |
| Mojave WA | | 14,099 | 800 | 14,899 | |
| Palmdale WD | | 8,019 | | 8,019 | |
| Coachella Valley WD | CR | 19,593 | | 19,593 | 51,918 |
| Desert WA | | 32,325 | | 32,325 | |
| Recreation/F&W Water | | 3,470 | 1,219 | 4,689 | 4,689 |
| **Total** | | **2,190,900** | **78,275** | **2,269,175** | **2,269,175** |

Source: Table 10-4, Bulletin 132-94 and Table 10-4, Bulletin 132-95.

**Table 20. U.S. Bureau of Reclamation Delivery Summary** (1,000 acre-feet)

| | AG | Urban | Waterfowl | Total |
|---|---|---|---|---|
| *Black Butte Unit* | 1,101 | 121 | | 1,222 |
| *Cachuma Dam* | 21,677 | 16,389 | | 38,066 |
| Clear Creek South | 3,466 | 2,582 | | 6,048 |
| Colusa Basin Drain | 11,404 | | | 11,404 |
| Contra Costa Canal | 522 | 110,196 | | 110,718 |
| Corning Canal | 18,070 | | | 18,070 |
| Cow Creek unit | 7,108 | 6,874 | | 13,982 |
| Cross Valley Canal | 26,559 | | | 26,559 |
| Delta | | 204 | | 204 |
| Delta Mendota Canal | 181,837 | 7,647 | | 189,484 |
| Exchange Contractor | 706,999 | | | 706,999 |
| Folsom Lake | 8,649 | 82,040 | | 90,689 |
| Folsom South Canal | 0 | 59,680 | | 59,680 |
| Friant-Kern Canal | 621,272 | 42,547 | | 663,819 |
| *Lake Berryessa* | | 237 | | 237 |
| Lower American | | 48,590 | | 48,590 |
| Madera Canal | 178,814 | | | 178,814 |
| Mendota Pool | 64,818 | | | 64,818 |
| Millerton Lake | | 179 | | 179 |
| *Putah South Canal* | 166,345 | 38,980 | | 205,325 |
| Sacramento River | 1,461,147 | 67,227 | 55,409 | 1,583,783 |
| San Felipe Division | 46,743 | 68,178 | | 114,921 |
| San Joaquin Valley | | | | 0 |
| San Luis Canal | 1,001,469 | 15,434 | 352 | 1,017,255 |
| Shasta Lake | 0 | 1,312 | | 1,312 |
| *Sly Park Unit* | 14,037 | 1,925 | | 15,962 |
| Spring Creek Conduit | | 728 | | 728 |
| Tehama Colusa Canal | 145,694 | | | 145,694 |
| Toyon Pipeline | | 2,467 | | 2,467 |
| Tulelake-P-Canal | 7,259 | | | 7,259 |
| *Upper American River* | 1,515 | 8,847 | | 10,362 |
| Waterfowl Conservation | 0 | | 968 | 968 |
| Waterfowl District | | | 9,697 | 9,697 |
| **Total** | **4,696,505** | **582,384** | **66,426** | **5,345,315** |

Source: USBR Repayments Section, 2800 Cottage Way, Sacramento "Water Deliveries and Revenues, Oct. 1, 1993, Through Sep. 30, 1994. Black Butte-non-CVP projects shown in italics.

## Table 21. Applied Water Budgets by Planning Subarea (1,000 acre-feet)

**North Coast Region**

| Applied Water Use | Upper Klamath | Lower Klamath | Coastal | Russian River | Total |
|---|---|---|---|---|---|
| Urban | 13 | 14 | 42 | 72 | 141 |
| Agriculture | 571 | 32 | 64 | 82 | 749 |
| Environmental | 255 | 5,964 | 2,512 | 161 | 8,893 |
| Other | 34 | 1 | 0 | 0 | 34 |
| **Total Applied Use** | **872** | **6,011** | **2,619** | **316** | **9,817** |
| Local Supplies | 225 | 28 | 48 | 109 | 410 |
| Imports by Local | 0 | 0 | 0 | 1 | 1 |
| Groundwater | 146 | 16 | 57 | 34 | 253 |
| Reuse Groundwater | 27 | 3 | 1 | 0 | 32 |
| Reuse Surface Water | 203 | 0 | 0 | 0 | 203 |
| Reclaimed | 0 | 0 | 2 | 10 | 12 |
| Colorado River | 0 | 0 | 0 | 0 | 0 |
| CVP | 0 | 0 | 0 | 0 | 0 |
| Other Federal | 271 | 0 | 0 | 0 | 271 |
| SWP | 0 | 0 | 0 | 0 | 0 |
| Dedicated Natural Flow | 0 | 5,964 | 2,510 | 161 | 8,636 |
| **Total** | **872** | **6,011** | **2,619** | **316** | **9,817** |

**San Francisco Bay Region**

| Applied Water Use | North Bay | South Bay | Total |
|---|---|---|---|
| Urban | 153 | 920 | 1,072 |
| Agriculture | 62 | 30 | 92 |
| Environmental | 3,951 | 10 | 3,961 |
| Other | 0 | 0 | 0 |
| **Total Applied Use** | **4,166** | **960** | **5,125** |
| Local Supplies | 238 | 143 | 381 |
| Imports by Local | 22 | 473 | 496 |
| Groundwater | 20 | 48 | 68 |
| Reuse Groundwater | 0 | 0 | 0 |
| Reuse Surface Water | 0 | 0 | 0 |
| Reclaimed | 0 | 32 | 32 |
| Colorado River | 0 | 0 | 0 |
| CVP | 0 | 147 | 147 |
| Other Federal | 58 | 0 | 58 |
| SWP | 30 | 116 | 146 |
| Dedicated Natural Flow | 3,797 | 0 | 3,797 |
| **Total** | **4,166** | **960** | **5,125** |

**Table 21. (continued) Applied Water Budgets by Planning Subarea** (1,000 acre-feet)

**Central Coast Region**

| Applied Water Use | North Cent Coast | South Cent Coast | Total |
|---|---|---|---|
| Urban | 154 | 121 | 275 |
| Agriculture | 798 | 455 | 1,254 |
| Environmental | 4 | 5 | 8 |
| Other | 2 | 0 | 2 |
| **Total Applied Use** | **959** | **581** | **1,539** |
| Local Supplies | 27 | 19 | 45 |
| *Imports by Local* | *0* | *0* | *0* |
| Groundwater | 655 | 336 | 991 |
| Reuse Groundwater | 220 | 119 | 339 |
| Reuse Surface Water | 0 | 2 | 2 |
| Reclaimed | 1 | 20 | 21 |
| Colorado River | 0 | 0 | 0 |
| CVP | 52 | 0 | 52 |
| Other Federal | 0 | 81 | 81 |
| SWP | 0 | 0 | 0 |
| Dedicated Natural Flow | 4 | 5 | 8 |
| **Total** | **959** | **581** | **1,539** |

**South Coast Region**

| Applied Water Use | Santa Clara | Metro LA | Santa Ana | San Diego | Total |
|---|---|---|---|---|---|
| Urban | 174 | 1,674 | 1,066 | 574 | 3,488 |
| Agriculture | 205 | 15 | 260 | 294 | 774 |
| Environmental | 4 | 28 | 5 | 1 | 36 |
| Other | 10 | 57 | 50 | 37 | 154 |
| **Total Applied Use** | **393** | **1,773** | **1,381** | **906** | **4,452** |
| Local Supplies | 67 | 20 | 69 | 116 | 272 |
| Imports by Local | 0 | 174 | 0 | 0 | 174 |
| Groundwater | 150 | 530 | 564 | 95 | 1,339 |
| *Reuse Groundwater* | 47 | 60 | 207 | 4 | 319 |
| Reuse Surface Water | 5 | 6 | 41 | 16 | 68 |
| Reclaimed | 6 | 88 | 57 | 27 | 178 |
| Colorado River | 0 | 477 | 274 | 481 | 1,232 |
| CVP | 0 | 0 | 0 | 0 | 0 |
| Other Federal | 0 | 0 | 0 | 0 | 0 |
| SWP | 114 | 419 | 169 | 166 | 867 |
| Dedicated Natural Flow | 4 | 0 | 0 | 0 | 4 |
| **Total** | **393** | **1,773** | **1,381** | **906** | **4,452** |

## Table 21. (continued) Applied Water Budgets by Planning Subarea (1,000 acre-feet)

**Sacramento River Region**

| Applied Water Use | Shasta Pit | NW Valley | NE Valley | Central Basin W. | Central Basin E. | South East | South West | Delta SA | Total |
|---|---|---|---|---|---|---|---|---|---|
| Urban | 14 | 57 | 60 | 78 | 448 | 74 | 6 | 20 | 756 |
| Agriculture | 454 | 462 | 256 | 2,705 | 3,168 | 349 | 65 | 432 | 7,890 |
| Environmental | 2,147 | 42 | 0 | 185 | 1,497 | 982 | 6 | 9 | 4,869 |
| Other | 26 | 61 | 34 | 165 | 140 | 16 | 4 | 0 | 445 |
| **Total Applied Use Supplies** | **2,642** | **621** | **351** | **3,132** | **5,253** | **1,421** | **80** | **461** | **13,960** |
| Local | 351 | 20 | 88 | 288 | 2,130 | 335 | 11 | 365 | 3,588 |
| Imports by Local | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 9 |
| Groundwater | 85 | 281 | 193 | 816 | 852 | 42 | 62 | 10 | 2,340 |
| Reuse Groundwater | 37 | 24 | 14 | 83 | 40 | 9 | 2 | 0 | 210 |
| Reuse Surface Water | 54 | 0 | 6 | 616 | 341 | 38 | 0 | 71 | 1,126 |
| Reclaimed | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Colorado River | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CVP | 0 | 150 | 51 | 1,157 | 661 | 5 | 0 | 15 | 2,038 |
| Other Federal | 0 | 103 | 0 | 154 | 0 | 0 | 0 | 0 | 257 |
| SWP | 0 | 0 | 0 | 11 | 11 | 1 | 0 | 0 | 22 |
| Dedicated Natural Flow | 2,115 | 42 | 0 | 7 | 1,219 | 982 | 6 | 0 | 4,371 |
| **Total** | **2,642** | **621** | **351** | **3,132** | **5,253** | **1,421** | **80** | **461** | **13,960** |

**San Joaquin River Region**

| Applied Water Use | Sierra Foothill | Eastern Vly Flr | Delta SA | Western Uplands | E Side Uplands | Valley E Side | Valley W Side | Total |
|---|---|---|---|---|---|---|---|---|
| Urban | 54 | 83 | 34 | 41 | 16 | 305 | 22 | 554 |
| Agriculture | 37 | 901 | 789 | 47 | 7 | 3,219 | 1,378 | 6,377 |
| Environmental | 112 | 426 | 23 | 0 | 0 | 104 | 178 | 843 |
| Other | 0 | 0 | 0 | 0 | 1 | 494 | 300 | 795 |
| **Total Applied Use Supplies** | **203** | **1,411** | **845** | **88** | **23** | **4,122** | **1,878** | **8,569** |
| Local | 68 | 154 | 481 | 26 | 12 | 2,182 | 154 | 3,077 |
| Imports by Local | 2 | 0 | 0 | 4 | 0 | 0 | 9 | 15 |
| Groundwater | 17 | 680 | 300 | 1 | 1 | 585 | 75 | 1,659 |
| Reuse Groundwater | 0 | 42 | 4 | 1 | 10 | 882 | 360 | 1,298 |
| Reuse Surface Water | 1 | 35 | 45 | 2 | 0 | 109 | 12 | 205 |
| Reclaimed | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Colorado River | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CVP | 0 | 15 | 15 | 54 | 0 | 243 | 1,265 | 1,592 |
| Other Federal | 2 | 74 | 0 | 0 | 0 | 28 | 0 | 103 |
| SWP | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 |
| Dedicated Natural Flow | 112 | 409 | 0 | 0 | 0 | 93 | 0 | 614 |
| **Total Supplies** | **203** | **1,411** | **845** | **88** | **23** | **4,122** | **1,878** | **8,569** |

**Table 21. (continued) Applied Water Budgets by Planning Subarea** (1,000 acre-feet)

**Tulare Lake Region**

| Applied Water Use | Uplands | KKT | San Luis West Side | Western Uplands | Kern Vly Floor | Total |
|---|---|---|---|---|---|---|
| Urban | 20 | 360 | 20 | 2 | 290 | 691 |
| Agriculture | 28 | 5,141 | 1,363 | 0 | 2,487 | 9,019 |
| Environmental | 0 | 31 | 0 | 0 | 23 | 54 |
| Other | 2 | 504 | 25 | 0 | 184 | 715 |
| **Total Applied Use** | **50** | **6,036** | **1,408** | **2** | **2,983** | **10,479** |
| Local Supplies | 16 | 1,211 | 0 | 0 | 460 | 1,688 |
| Imports by Local | 0 | 13 | 55 | 0 | 40 | 109 |
| Groundwater | 10 | 2,299 | 414 | 1 | 642 | 3,365 |
| Reuse Groundwater | 19 | 1,785 | 14 | 1 | 647 | 2,465 |
| Reuse Surface Water | 0 | 11 | 0 | 0 | 0 | 11 |
| Reclaimed | 0 | 0 | 0 | 0 | 0 | 0 |
| Colorado River | 0 | 0 | 0 | 0 | 0 | 0 |
| CVP | 0 | 565 | 844 | 0 | 275 | 1,684 |
| Other Federal | 0 | 0 | 0 | 0 | 0 | 0 |
| SWP | 5 | 152 | 82 | 0 | 919 | 1,157 |
| Dedicated Natural Flow | 0 | 0 | 0 | 0 | 0 | 0 |
| **Total** | **50** | **6,036** | **1,408** | **2** | **2,983** | **10,479** |

**North Lahontan Region**

| Applied Water Use | Lassen Group | Alpine Group | Total |
|---|---|---|---|
| Urban | 18 | 23 | 41 |
| Agriculture | 283 | 177 | 460 |
| Environmental | 17 | 0 | 17 |
| Other | 14 | 0 | 14 |
| **Total Applied Use** | **332** | **201** | **532** |
| Local Supplies | 119 | 149 | 268 |
| Imports by Local | 0 | 0 | 0 |
| Groundwater | 179 | 46 | 225 |
| Reuse Groundwater | 25 | 0 | 25 |
| Reuse Surface Water | 6 | 0 | 6 |
| Reclaimed | 3 | 5 | 8 |
| Colorado River | 0 | 0 | 0 |
| CVP | 0 | 0 | 0 |
| Other Federal | 0 | 0 | 0 |
| SWP | 0 | 0 | 0 |
| Dedicated Natural Flow | 0 | 0 | 0 |
| **Total** | **332** | **201** | **532** |

**Table 21. (continued) Applied Water Budgets by Planning Subarea** (1,000 acre-feet)

**South Lahontan Region**

| Applied Water Use | Mono Owens | Death Valley | Indian Wells | Antelope Valley | Mojave River | Total |
|---|---|---|---|---|---|---|
| Urban | 12 | 3 | 15 | 86 | 81 | 197 |
| Agriculture | 138 | 11 | 12 | 66 | 90 | 316 |
| Environmental | 108 | 0 | 0 | 0 | 0 | 108 |
| Other | 0 | 0 | 0 | 5 | 1 | 5 |
| **Total Applied Use** | **258** | **14** | **27** | **156** | **171** | **626** |
| Local Supplies | 52 | 0 | 0 | 2 | 0 | 54 |
| Imports by Local | 0 | 0 | 0 | 0 | 0 | 0 |
| Groundwater | 80 | 13 | 19 | 54 | 112 | 278 |
| Reuse Groundwater | 17 | 1 | 7 | 27 | 35 | 87 |
| Reuse Surface Water | 1 | 0 | 0 | 5 | 4 | 10 |
| Reclaimed | 1 | 0 | 1 | 6 | 6 | 13 |
| Colorado River | 0 | 0 | 0 | 0 | 0 | 0 |
| CVP | 0 | 0 | 0 | 0 | 0 | 0 |
| Other Federal | 0 | 0 | 0 | 0 | 0 | 0 |
| SWP | 0 | 0 | 0 | 63 | 15 | 78 |
| Dedicated Natural Flow | 108 | 0 | 0 | 0 | 0 | 108 |
| **Total** | **258** | **14** | **27** | **156** | **171** | **626** |

**Colorado River Region**

| Applied Water Use | 29 Palms-Lanfair | Chuck-walla | Colo River | Coachella | Borrego | Imperial Valley | Total |
|---|---|---|---|---|---|---|---|
| Urban | 12 | 1 | 16 | 214 | 3 | 110 | 355 |
| Agriculture | 20 | 15 | 627 | 331 | 36 | 2,556 | 3,585 |
| Environmental | 0 | 0 | 0 | 0 | 0 | 37 | 37 |
| Other | 0 | 0 | 0 | 40 | 0 | 320 | 360 |
| **Total Applied Use** | **32** | **15** | **644** | **585** | **39** | **3,023** | **4,338** |
| Local Supplies | 0 | 0 | 0 | 6 | 0 | 0 | 6 |
| Imports by Local | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Groundwater | 23 | 14 | 12 | 65 | 6 | 0 | 120 |
| Reuse Groundwater | 7 | 1 | 1 | 112 | 1 | 0 | 122 |
| Reuse Surface Water | 0 | 0 | 131 | 1 | 0 | 0 | 132 |
| Reclaimed | 2 | 0 | 0 | 6 | 0 | 12 | 20 |
| Colorado River | 0 | 0 | 500 | 326 | 32 | 3,011 | 3,869 |
| CVP | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other Federal | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SWP | 0 | 0 | 0 | 70 | 0 | 0 | 70 |
| Dedicated Natural Flow | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Total** | **32** | **15** | **644** | **585** | **39** | **3,023** | **4,338** |

**Table 22. Applied Water Budgets by Region** (1,000 acre-feet)

| California | NC | SF | CC | SC | SR | SJ | TL | NL | SL | CR | CA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Urban | 141 | 1,072 | 275 | 3,488 | 756 | 554 | 691 | 41 | 197 | 355 | 7,570 |
| Agriculture | 749 | 92 | 1,254 | 774 | 7,890 | 6,377 | 9,019 | 460 | 316 | 3,585 | 30,517 |
| Environmental | 8,893 | 3,961 | 8 | 36 | 4,869 | 843 | 54 | 17 | 108 | 37 | 18,826 |
| Other | 34 | 0 | 2 | 154 | 445 | 795 | 715 | 14 | 5 | 360 | 2,525 |
| **Total Applied Use Supplies** | **9,817** | **5,125** | **1,539** | **4,452** | **13,960** | **8,569** | **10,479** | **532** | **626** | **4,338** | **59,437** |
| Local | 410 | 381 | 45 | 272 | 3,588 | 3,077 | 1,688 | 268 | 54 | 6 | 9,787 |
| Imports by Local | 1 | 496 | 0 | 174 | 9 | 15 | 109 | 0 | 0 | 0 | 804 |
| Groundwater | 253 | 68 | 991 | 1,339 | 2,340 | 1,659 | 3,365 | 225 | 278 | 120 | 10,638 |
| Reuse Groundwater | 32 | 0 | 339 | 319 | 210 | 1,298 | 2,465 | 25 | 87 | 122 | 4,895 |
| Reuse Surface Water | 203 | 0 | 2 | 68 | 1,126 | 205 | 11 | 6 | 10 | 132 | 1,762 |
| Reclaimed | 12 | 32 | 21 | 178 | 0 | 2 | 0 | 8 | 13 | 20 | 287 |
| Colorado River | 0 | 0 | 0 | 1,232 | 0 | 0 | 0 | 0 | 0 | 3,869 | 5,100 |
| CVP | 0 | 147 | 52 | 0 | 2,038 | 1,592 | 1,684 | 0 | 0 | 0 | 5,514 |
| Other Federal | 271 | 58 | 81 | 0 | 257 | 103 | 0 | 0 | 0 | 0 | 770 |
| SWP | 0 | 146 | 0 | 867 | 22 | 3 | 1,157 | 0 | 78 | 70 | 2,343 |
| Dedicated Natural Flow | 8,636 | 3,797 | 8 | 4 | 4,371 | 614 | 0 | 0 | 108 | 0 | 17,537 |
| **Total Supplies** | **9,817** | **5,125** | **1,539** | **4,452** | **13,960** | **8,569** | **10,479** | **532** | **626** | **4,338** | **59,437** |

**Table 23. Net Water Budgets by Planning Subarea** (1,000 acre-feet)

| North Coast Region | | | | | |
|---|---|---|---|---|---|
| **Net Water Use** | **Upper Klamath** | **Lower Klamath** | **Coastal** | **Russian River** | **Total** |
| Urban | 13 | 14 | 42 | 72 | 141 |
| Agriculture | 355 | 30 | 63 | 82 | 530 |
| Environmental | 255 | 5,964 | 2,476 | 90 | 8,785 |
| Other | 20 | 0 | 0 | 0 | 20 |
| **Total Net Use** | **642** | **6,008** | **2,581** | **244** | **9,476** |
| Local Supplies | 225 | 28 | 48 | 109 | 410 |
| Imports by Local | 0 | 0 | 0 | 1 | 1 |
| Groundwater | 146 | 16 | 57 | 34 | 253 |
| Reclaimed | 0 | 0 | 2 | 10 | 12 |
| Colorado River | 0 | 0 | 0 | 0 | 0 |
| CVP | 0 | 0 | 0 | 0 | 0 |
| Other Federal | 271 | 0 | 0 | 0 | 271 |
| SWP | 0 | 0 | 0 | 0 | 0 |
| Dedicated Natural Flow | 0 | 5,964 | 2,474 | 90 | 8,528 |
| **Total** | **642** | **6,008** | **2,581** | **244** | **9,476** |

**Table 23. (*continued*) Net Water Budgets by Planning Subarea** (1,000 acre-feet)

**San Francisco Bay Region**

| Net Water Use | North Bay | South Bay | Total |
|---|---|---|---|
| Urban | 153 | 920 | 1,072 |
| Agriculture | 62 | 30 | 92 |
| Environmental | 3,951 | 10 | 3,961 |
| Other | 0 | 0 | 0 |
| **Total Net Use** | **4,166** | **960** | **5,125** |
| Local Supplies | 238 | 143 | 381 |
| Imports by Local | 22 | 473 | 496 |
| Groundwater | 20 | 48 | 68 |
| Reclaimed | 0 | 32 | 32 |
| Colorado River | 0 | 0 | 0 |
| CVP | 0 | 147 | 147 |
| Other Federal | 58 | 0 | 58 |
| SWP | 30 | 116 | 146 |
| Dedicated Natural Flow | 3,797 | 0 | 3,797 |
| **Total** | **4,166** | **960** | **5,125** |

**Central Coast Region**

| Net Water Use | North Cent. Coast | South Cent. Coast | Total |
|---|---|---|---|
| Urban | 131 | 99 | 230 |
| Agriculture | 601 | 356 | 958 |
| Environmental | 0 | 0 | 0 |
| Other | 2 | 0 | 2 |
| **Total Net Use** | **735** | **455** | **1,190** |
| Local Supplies | 27 | 19 | 45 |
| *Imports by Local* | *0* | *0* | *0* |
| Groundwater | 655 | 336 | 991 |
| Reclaimed | 1 | 20 | 21 |
| Colorado River | 0 | 0 | 0 |
| CVP | 52 | 0 | 52 |
| Other Federal | 0 | 81 | 81 |
| SWP | 0 | 0 | 0 |
| *Dedicated Natural Flow* | *0* | *0* | *0* |
| **Total** | **735** | **455** | **1,190** |

**Table 23. (continued) Net Water Budgets by Planning Subarea** (1,000 acre-feet)

**South Coast Region**

| Net Water Use | Santa Clara | Metro LA | Santa Ana | San Diego | Total |
|---|---|---|---|---|---|
| Urban | 148 | 1,609 | 867 | 566 | 3,190 |
| Agriculture | 179 | 13 | 213 | 282 | 687 |
| Environmental | 0 | 28 | 3 | 1 | 31 |
| Other | 10 | 57 | 50 | 37 | 154 |
| **Total Net Use** | **337** | **1,707** | **1,133** | **885** | **4,062** |
| Local Supplies | 67 | 20 | 69 | 116 | 272 |
| Imports by Local | 0 | 174 | 0 | 0 | 174 |
| Groundwater | 150 | 530 | 564 | 95 | 1,339 |
| Reclaimed | 6 | 88 | 57 | 27 | 178 |
| Colorado River | 0 | 477 | 274 | 481 | 1,232 |
| CVP | 0 | 0 | 0 | 0 | 0 |
| Other Federal | 0 | 0 | 0 | 0 | 0 |
| SWP | 114 | 419 | 169 | 166 | 867 |
| Dedicated Natural Flow | 0 | 0 | 0 | 0 | 0 |
| **Total** | **337** | **1,707** | **1,133** | **885** | **4,062** |

**Sacramento River Region**

| Net Water Use | Shasta Pit | NW Valley | NE Valley | Central Basin W | Central Basin E | South East | South West | Delta SA | Total |
|---|---|---|---|---|---|---|---|---|---|
| Urban | 14 | 57 | 60 | 78 | 448 | 74 | 6 | 20 | 756 |
| Agriculture | 392 | 455 | 249 | 2,043 | 2,868 | 318 | 67 | 360 | 6,752 |
| Environmental | 2,145 | 42 | 0 | 167 | 1,351 | 982 | 0 | 9 | 4,696 |
| Other | 0 | 43 | 22 | 138 | 99 | 0 | 0 | 0 | 302 |
| **Total Net Use** | **2,551** | **596** | **331** | **2,426** | **4,766** | **1,373** | **73** | **390** | **12,505** |
| Local Supplies | 351 | 20 | 88 | 288 | 2,130 | 335 | 11 | 365 | 3,588 |
| Imports by Local | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 9 |
| Groundwater | 85 | 281 | 193 | 816 | 852 | 42 | 62 | 10 | 2,340 |
| Reclaimed | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Colorado River | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CVP | 0 | 150 | 51 | 1,157 | 661 | 5 | 0 | 15 | 2,038 |
| Other Federal | 0 | 103 | 0 | 154 | 0 | 0 | 0 | 0 | 257 |
| SWP | 0 | 0 | 0 | 11 | 11 | 1 | 0 | 0 | 22 |
| Dedicated Natural Flow | 2,115 | 42 | 0 | 0 | 1,113 | 982 | 0 | 0 | 4,252 |
| **Total** | **2,551** | **596** | **331** | **2,426** | **4,766** | **1,373** | **73** | **390** | **12,505** |

## Table 23. (continued) Net Water Budgets by Planning Subarea (1,000 acre-feet)

**San Joaquin River Region**

| Net Water Use | Sierra Foothill | Eastern Valley Floor | Delta SA | Western Uplands | E Side Uplands | Valley E Side | Valley W Side | Total |
|---|---|---|---|---|---|---|---|---|
| Urban | 54 | 83 | 32 | 40 | 9 | 160 | 12 | 390 |
| Agriculture | 36 | 824 | 741 | 45 | 4 | 2,859 | 1,263 | 5,772 |
| Environmental | 112 | 426 | 23 | 0 | 0 | 100 | 128 | 789 |
| Other | 0 | 0 | 0 | 0 | 0 | 12 | 103 | 115 |
| **Total Net Use** | **202** | **1,331** | **796** | **85** | **13** | **3,131** | **1,506** | **7,066** |
| Local Supplies | 68 | 154 | 481 | 26 | 12 | 2,182 | 154 | 3,077 |
| Imports by Local | 2 | 0 | 0 | 4 | 0 | 0 | 9 | 15 |
| Groundwater | 17 | 680 | 300 | 1 | 1 | 585 | 75 | 1,659 |
| Reclaimed | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Colorado River | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CVP | 0 | 15 | 15 | 54 | 0 | 243 | 1,265 | 1,592 |
| Other Federal | 2 | 74 | 0 | 0 | 0 | 28 | 0 | 103 |
| SWP | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 |
| Dedicated Natural Flow | 112 | 409 | 0 | 0 | 0 | 93 | 0 | 614 |
| **Total** | **202** | **1,333** | **796** | **85** | **13** | **3,131** | **1,506** | **7,066** |

**Tulare Lake Region**

| Net Water Use | Uplands | KKT | San Luis West Side | Western Uplands | Kern Vly Floor | Total |
|---|---|---|---|---|---|---|
| Urban | 12 | 152 | 13 | 1 | 165 | 342 |
| Agriculture | 19 | 4,013 | 1,356 | 0 | 2,067 | 7,454 |
| Environmental | 0 | 25 | 0 | 0 | 18 | 43 |
| Other | 0 | 51 | 25 | 0 | 87 | 164 |
| **Total Net Use** | **31** | **4,240** | **1,395** | **1** | **2,336** | **8,002** |
| Local Supplies | 16 | 1,211 | 0 | 0 | 460 | 1,688 |
| Imports by Local | 0 | 13 | 55 | 0 | 40 | 109 |
| Groundwater | 10 | 2,299 | 414 | 1 | 642 | 3,365 |
| Reclaimed | 0 | 0 | 0 | 0 | 0 | 0 |
| Colorado River | 0 | 0 | 0 | 0 | 0 | 0 |
| CVP | 0 | 565 | 844 | 0 | 275 | 1,684 |
| Other Federal | 0 | 0 | 0 | 0 | 0 | 0 |
| SWP | 5 | 152 | 82 | 0 | 919 | 1,157 |
| Dedicated Natural Flow | 0 | 0 | 0 | 0 | 0 | 0 |
| **Total** | **31** | **4,240** | **1,395** | **1** | **2,336** | **8,002** |

**Table 23. (continued) Net Water Budgets by Planning Subarea** (1,000 acre-feet)

**North Lahontan Region**

| Net Water Use | *Lassen* Group | *Alpine* Group | Total |
|---|---|---|---|
| Urban | 18 | 23 | 41 |
| Agriculture | 266 | 177 | 443 |
| Environmental | 17 | 0 | 17 |
| Other | 0 | 0 | 0 |
| **Total Net Use** | **301** | **201** | **501** |
| Local Supplies | 119 | 149 | 268 |
| Imports by Local | 0 | 0 | 0 |
| Groundwater | 179 | 46 | 225 |
| Reclaimed | 3 | 5 | 8 |
| Colorado River | 0 | 0 | 0 |
| CVP | 0 | 0 | 0 |
| Other Federal | 0 | 0 | 0 |
| SWP | 0 | 0 | 0 |
| Dedicated Natural Flow | 0 | 0 | 0 |
| **Total** | **301** | **201** | **501** |

**South Lahontan Region**

| Net Water Use | Mono Owens | Death Valley | Indian Wells | Antelope Valley | Mojave River | Total |
|---|---|---|---|---|---|---|
| Urban | 7 | 3 | 9 | 58 | 53 | 130 |
| Agriculture | 126 | 10 | 11 | 62 | 79 | 287 |
| Environmental | 87 | 0 | 0 | 0 | 0 | 87 |
| Other | 0 | 0 | 0 | 5 | 1 | 5 |
| **Total Net Use** | **219** | **13** | **20** | **124** | **133** | **509** |
| Local Supplies | 52 | 0 | 0 | 2 | 0 | 54 |
| Imports by Local | 0 | 0 | 0 | 0 | 0 | 0 |
| Groundwater | 80 | 13 | 19 | 54 | 112 | 278 |
| Reclaimed | 1 | 0 | 1 | 6 | 6 | 13 |
| Colorado River | 0 | 0 | 0 | 0 | 0 | 0 |
| CVP | 0 | 0 | 0 | 0 | 0 | 0 |
| Other Federal | 0 | 0 | 0 | 0 | 0 | 0 |
| SWP | 0 | 0 | 0 | 63 | 15 | 78 |
| Dedicated Natural Flow | 87 | 0 | 0 | 0 | 0 | 87 |
| **Total** | **219** | **13** | **20** | **124** | **133** | **509** |

**Table 23. (continued) Net Water Budgets by Planning Subarea** (1,000 acre-feet)

| Colorado River Region | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Net Water Use** | **29 Palms-Lanfair** | **Chuck-walla** | **Colorado River** | **Coachella** | **Borrego** | **Imperial Valley** | **Total** |
| Urban | 7 | 0 | 11 | 167 | 2 | 110 | 297 |
| Agriculture | 18 | 14 | 501 | 266 | 36 | 2,556 | 3,391 |
| Environmental | 0 | 0 | 0 | 0 | 0 | 37 | 37 |
| Other | 0 | 0 | 0 | 40 | 0 | 320 | 360 |
| **Total Net Use** | **25** | **14** | **512** | **472** | **38** | **3,023** | **4,084** |
| Local Supplies | 0 | 0 | 0 | 6 | 0 | 0 | 6 |
| Imports by Local | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Groundwater | 23 | 14 | 12 | 65 | 6 | 0 | 120 |
| Reclaimed | 2 | 0 | 0 | 6 | 0 | 12 | 20 |
| Colorado River | 0 | 0 | 500 | 326 | 32 | 3,011 | 3,869 |
| CVP | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other Federal | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SWP | 0 | 0 | 0 | 70 | 0 | 0 | 70 |
| Dedicated Natural Flow | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Total** | **25** | **14** | **512** | **472** | **38** | **3,023** | **4,085** |

**Table 24. Net Water Budgets by Region** (1,000 acre-feet)

| **California** | **NC** | **SF** | **CC** | **SC** | **SR** | **SJ** | **TL** | **NL** | **SL** | **CR** | **CA** |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Urban | 141 | 1,072 | 230 | 3,190 | 756 | 390 | 342 | 41 | 130 | 297 | 6,589 |
| Agriculture | 530 | 92 | 958 | 687 | 6,752 | 5,772 | 7,454 | 443 | 287 | 3,391 | 26,365 |
| Environmental | 8,785 | 3,961 | 0 | 31 | 4,696 | 789 | 43 | 17 | 87 | 37 | 18,445 |
| Other | 20 | 0 | 2 | 154 | 302 | 115 | 164 | 0 | 5 | 360 | 1,122 |
| **Total Net Use** | **9,476** | **5,125** | **1,190** | **4,062** | **12,505** | **7,065** | **8,002** | **501** | **509** | **4,084** | **52,521** |
| Local | 410 | 381 | 45 | 272 | 3,588 | 3,077 | 1,688 | 268 | 54 | 6 | 9,787 |
| Imports by Local | 1 | 496 | 0 | 174 | 9 | 15 | 109 | 0 | 0 | 0 | 804 |
| Groundwater | 253 | 68 | 991 | 1,339 | 2,340 | 1,659 | 3,365 | 225 | 278 | 120 | 10,638 |
| Reclaimed | 12 | 32 | 21 | 178 | 0 | 2 | 0 | 8 | 13 | 20 | 287 |
| Colorado River | 0 | 0 | 0 | 1,232 | 0 | 0 | 0 | 0 | 0 | 3,869 | 5,100 |
| CVP | 0 | 147 | 52 | 0 | 2,038 | 1,592 | 1,684 | 0 | 0 | 0 | 5,514 |
| Other Federal | 271 | 58 | 81 | 0 | 257 | 103 | 0 | 0 | 0 | 0 | 770 |
| SWP | 0 | 146 | 0 | 867 | 22 | 3 | 1,157 | 0 | 78 | 70 | 2,343 |
| Dedicated Natural Flow | 8,528 | 3,797 | 0 | 0 | 4,252 | 614 | 0 | 0 | 87 | 0 | 17,278 |
| **Total Supplies** | **9,476** | **5,125** | **1,190** | **4,062** | **12,505** | **7,066** | **8,002** | **501** | **509** | **4,085** | **52,521** |

## Table 25. Groundwater Changes Northern District, Spring 1993 to Spring 1994

| PSA | DAU | County | Basin | Change | |
|---|---|---|---|---|---|
| | | | | Elevation (Feet) | Storage (1,000 af) |
| Upper Klamath | Lost River | Modoc | Klamath River Valley | 0.2 | 0.5 |
| | | Siskiyou | Klamath River Valley | -1.8 | -14.7 |
| | Butte Valley | Siskiyou | Siskiyou Butte Valle | -0.1 | -3.0 |
| | Scott Valley | Siskiyou | Scott River Valley | -1.9 | -6.8 |
| | Shasta Valley | Siskiyou | Shasta Valley | 0.0 | 0.2 |
| Lower Klamath | Trinity | Humboldt | Hoopa Valley | -2.7 | -0.6 |
| | Lower Klamath | Del Norte | Klamath River Mouth | -1.5 | -0.8 |
| | | Humboldt | Prairie Creek | -1.5 | -0.1 |
| | Smith River | Del Norte | Smith River Plain | -3.5 | -11.1 |
| Coastal | Lower Eel | Humboldt | Eel River | -1.6 | -8.4 |
| | Van Duzen | Humboldt | Eel River | -1.6 | -0.5 |
| | S.F. Eel | Mendocino | Laytonville | -2.7 | -1.5 |
| | Upper Eel | Mendocino | Covelo Round Valley | -2.2 | -2.3 |
| | | Mendocino | Little Lake Valley | -3.3 | -2.5 |
| | Redwood Creek | Humboldt | Prairie Creek | -1.2 | -1.2 |
| | | Humboldt | Redwood Creek | -1.1 | -0.2 |
| | Mad-Trinidad | Humboldt | Humboldt Big Lagoon | 2.8 | 0.4 |
| | | Humboldt | Mad River Valley | -3.4 | -1.0 |
| | Eureka Plain | Humboldt | Eureka Plain | -1.2 | -3.1 |
| | | Humboldt | Mad River Valley | -2.5 | -5.8 |
| Shasta Lake | Goose Lake | Lassen | Alturas | 0.3 | 0.1 |
| | | Modoc | Alturas | 0.3 | 3.5 |
| | Alturas | Modoc | Goose Lake | 1.0 | 3.3 |
| | Big Valley | Lassen | Big Valley | -0.7 | -4.0 |
| | | Modoc | Big Valley | -0.9 | -1.6 |
| | | Modoc | Round Valley | -1.7 | -1.2 |
| | MacArthur | Lassen | Fall River Valley | -1.8 | -1.0 |
| | Hat Creek | Shasta | Fall River Valley | -2.0 | -9.8 |
| Northwest Valley | Redding West | Shasta | Redding | -1.8 | -13.9 |
| | | Tehama | Redding | -0.7 | -5.9 |
| | Red Bluff-Orland | Glenn | Sacramento Valley | -4.5 | -35.9 |
| | | Tehama | Sacramento Valley | -1.5 | -52.5 |
| Northeast Valley | Redding East | Shasta | Redding | 0.0 | 0.3 |
| | | Tehama | Redding | 0.0 | 0.0 |
| | Los Molinos | Butte | Sacramento Valley | -2.5 | -14.8 |
| | | Tehama | Sacramento Valley | -1.6 | -12.6 |
| Southeast Valley | Feather River | Plumas | Almanor | -0.6 | -0.2 |
| | | Plumas | Mohawk Valley | -1.0 | -0.4 |
| | | Plumas | Sierra Valley | 5.0 | 24.7 |
| | | Sierra | Sierra Valley | 0.2 | 0.7 |
| Central Basin West | Willows-Arbuckle | Colusa | Sacramento Valley | -1.4 | -41.9 |
| | | Glenn | Sacramento Valley | 1.6 | 40.2 |
| | Glenn-Knights Ld | Colusa | Sacramento Valley | -3.2 | -23.9 |

**Table 25. (continued) Groundwater Changes Northern District, Spring 1993 to Spring 1994**

| PSA | DAU | County | Basin | Change | |
|---|---|---|---|---|---|
| | | | | Elevation (Feet) | Storage (1,000 af) |
| Central Basin East | Durham-Sutter | Butte | Sacramento Valley | -1.9 | -24.5 |
| | | Glenn | Sacramento Valley | 0.6 | 0.6 |
| | Butte City | Butte | Sacramento Valley | -1.9 | -2.9 |
| | | Colusa | Sacramento Valley | -2.9 | -8.5 |
| | | Glenn | Sacramento Valley | -3.6 | -7.5 |
| | Yuba City-Gridley | Butte | Sacramento Valley | -1.0 | -6.9 |
| | Honcut Valley | Butte | Sacramento Valley | -0.9 | -2.8 |
| Southwest Valley | Cache Creek | Lake | Burns Valley | -1.5 | -0.1 |
| | | Lake | High Valley | -4.5 | -0.6 |
| | | Lake | Kelseyville Valley | -2.9 | -3.9 |
| | | Lake | Scotts Valley | -2.9 | -0.6 |
| | | Lake | Upper Lake | -3.1 | -2.1 |
| | Putah Creek | Lake | Coyote Valley | -3.5 | -1.0 |
| | | Lake | Middletown-Collayomi | -3.3 | -1.2 |
| Lassen Group | Surprise Valley | Lassen | Surprise Valley | 7.0 | 1.0 |
| | | Modoc | Surprise Valley | 7.0 | 108.5 |
| | Madeline Plains | Lassen | Termo-Madeline Plain | 0.9 | 10.9 |
| | Susanville | Lassen | Honey Lake | 0.7 | 9.9 |
| | Herlong | Lassen | Honey Lake | 0.2 | 1.2 |
| | | Lassen | Long Valley | -1.6 | -4.0 |
| | | Sierra | Long Valley | -3.5 | -2.2 |
| | Upper Honey Lake | Lassen | Secret Valley | 0.8 | 2.0 |
| | | Lassen | Willow Creek Valley | -0.4 | -0.4 |

**Table 25. (continued) Groundwater Changes Central District, Spring 1993 to Spring 1994**

| PSA | Basin | Change | |
|---|---|---|---|
| | | Elevation (Feet) | Storage (1,000 af) |
| Central Basin E | Sutter | -3.0 | -36.5 |
| | North Yuba | -1.3 | -9.5 |
| | South Yuba | 0.6 | 4.2 |
| | North American | -1.5 | -33.4 |
| | South American | 0.2 | 2.5 |
| Central Basin W | Solano | -3.3 | -104.6 |
| | Yolo | -0.1 | -1.3 |
| | Colusa | -2.3 | -31.9 |
| Eastern Valley Floor | Cosumnes | -2.1 | -43.0 |
| | E San Joaquin | 1.5 | 79.6 |
| Delta Service Area Western Uplands | Tracy | -2.5 | -77.2 |
| Alpine Group | El Dorado | -2.8 | -2.7 |
| Russian R- Marin | Potter Valley | | |
| | Ukiah Valley | 0.7 | 2.5 |
| | Sanel Valley | -0.9 | -0.5 |
| | Alexander Valley | 1.4 | 4.7 |
| | Santa Rosa Valley | -4.1 | -29.1 |
| North Bay | Petaluma Valley | -1.0 | -1.1 |
| | Sonoma Valley | -1.9 | -4.2 |
| | Napa Valley | -4.2 | -5.3 |
| | Suisun-Fairfield | -2.4 | -3.3 |
| South Bay | Pittsburg Plain | -1.8 | -2.4 |
| | Clayton Valley | -1.1 | -1.5 |
| | Ygnacio Valley | 0.2 | 0.3 |
| | Half Moon Bay | -4.2 | -4.7 |
| | San Gregorio Valley | -3.4 | -1.5 |
| | Pescadero Valley | -2.3 | -0.8 |
| | Santa Clara Valley | | |
| | Coyote | | |
| | Llagas | | |

**Table 25. (continued) Groundwater Changes San Joaquin District, Spring 1993 to Spring 1994**

| PSA/DAU | Change | |
|---|---|---|
| | Elevation (Feet) | Storage (1,000 af) |
| **Valley East Side** | | |
| 206 Modesto-Oakdale | -3.8 | -67 |
| 207 Modesto Reservoir | 0.0 | 0 |
| 208 Turlock | 2.2 | 56 |
| 209 Turlock Lake | 0.3 | 5 |
| 210 Merced | 0.8 | 26 |
| 211 Merced Stream Group | 1.5 | 1 |
| 212 El Nido-Stevinson | -3.0 | -37 |
| 213 Madera-Chowchilla | 4.3 | 99 |
| 214 Adobe | -2.8 | -35 |
| 215 Gravelly Ford | 1.1 | 22 |
| **Valley West Side** | | |
| 216 West Side | -1.4 | -48 |
| **Kings-Kaweah-Tule** | | |
| 233 Fresno | 1.1 | 48 |
| 234 Academy | 0.2 | 0 |
| 235 Raisin | -0.9 | -14 |
| 236 Consolidated | 3.7 | 109 |
| 237 Lower Kings River | 0.1 | 7 |
| 238 Hanford-Lemoore | 3.6 | 64 |
| 239 Alta | 4.1 | 54 |
| 240 Orange Cove | 8.3 | 13 |
| 241 Tulare Lake | 2.2 | 12 |
| 242 Kaweah Delta | 0.4 | 2 |
| 243 Tule Delta | 5.6 | 255 |
| **San Luis West Side** | | |
| 244 Westlands | 5.6 | 72 |
| 245 Kettleman Plain | 0.0 | 0 |
| 246 South Tulare Lake | 0.1 | 0 |
| **Kern Valley Floor** | | |
| 254 Kern Delta | 8.5 | 384 |
| 255 Semitropic | -4.1 | -87 |
| 256 North Kern | 3.7 | 59 |
| 257 Northeastern Kern | 3.0 | 9 |
| 258 Arvin-Edison | 26.3 | 59 |
| 259 Antelope Plain | 6.9 | 23 |
| 260 Buena Vista Valley | 7.6 | 3 |
| 261 Wheeler Ridge-Maricopa | 1.3 | 2 |
| **Central Coast North** | | |
| 48 Pressure | -2.7 | N/A |
| 49 East Side | 0.2 | N/A |
| 50 Forebay | 1.4 | N/A |
| 51 Upper Valley | -2.4 | N/A |
| 62 South Santa Clara Valley | 3.9 | N/A |

**Table 25. (continued) Groundwater Changes Southern District, Spring 1993 to Spring 1994**

| Region | Basin | Change | |
|---|---|---|---|
| | | Elevation (Feet) | Storage (1,000 af) |
| Central Coast | Arroyo Grande | -2 | |
| | Nipomo | -1 | |
| | Pismo Beach | -16 | |
| | Carpinteria | -6 | |
| | Santa Barbara | -2 | |
| | Santa Ynez | 11 | |
| | Santa Maria | 0 | |
| South Coast | Piru Basin | -27 | |
| | Fillmore Basin | -5 | |
| | Santa Paula Basin | -5 | |
| | Oxnard Forebay | 18 | |
| | North (West) Los Posas | -16 | |
| | Oxnard Plain Pressure | 9 | |
| | Santa Clara | 0 | |
| | Central | 5 | |
| | West Coast | -4 | |
| | Montebello Forebay | -29 | |
| | San Fernando | -2 | -22 |
| | Main San Gabriel | 17 | |
| | San Gabriel Canyon | 29 | |
| | Pomona | -29 | |
| | Raymond | 2 | |
| | Orange Co WD | -10 to 30 | 36 |
| | Chino | 21 | |
| | Bunker Hill | 11 | |
| | Colton & Riverside Basins | 19 | |
| | San Bernardino | 36 | |
| | Yucaipa | 12 | |
| | Temecula | -18 | |
| | San Diego Co | 2 | |
| South Lahontan | Owens Valley | 2 | |
| | Antelope Valley | -2 | |
| | Mojave River | 3 | |
| Colorado River | Indio Basin | -3 | |
| | Warren Valley | -11 | |

## Contributors

**Northern District**

Tito Cervantes
Todd Hillaire
Glen Pearson

**Central District**

Andrew Aguilar
Ed Morris
Dean Reynolds
Eric Senter

**San Joaquin District**

Michael McGinnis
Robert Polgar
Dave Scruggs
Ernie Taylor
Iris Yamagata

**Southern District**

Glenn Bergquist
Dave Inouye
Vern Knoop
Kelly Lawler
Ed Low
Michael Maisner

**Headquarters**

Nikki Blomquist
Marla Hambright
Tom Hawkins
Scott Matyac
Dick Neal
Bob Zettlemoyer