



# COUNTY HEALTH STATUS PROFILES 2001

Department of  
Health Services and  
California  
Conference of Local  
Health Officers

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# COUNTY HEALTH STATUS PROFILES 2001

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Cover Photography by **Penelope Cook**: The Mendocino Coast



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## INTRODUCTION

**County Health Status Profiles** has been presented annually for the State of California since 1993. The purpose of this report is to present public health data that can be directly compared with clearly established benchmarks, such as national standards, and populations of similar composition.

In keeping with the goal of using national standards, this year's report has two major changes.

- Mortality cause of death data has been coded using the *International Classification of Diseases, 10th Revision* (prior reports used the *International Classification of Diseases, 9th Revision*).
- Age-adjusted rates use the 2000 Standard Population (prior reports used the 1940 Standard Population).

The impact of these changes is discussed in the Technical Notes section of this report.

This edition of the **Profiles** for 2001 includes all the same health indicators and essentially the same report format as last year. However, this year for the first time data tables for diabetes deaths, chlamydia and hepatitis C incidences are included.

This report presents vital statistics and morbidity tables that show the population, number of events, percentages, crude rates, and age-adjusted death rates by county. Also shown on these tables are the upper and lower 95% confidence limits, which provide a means for assessing the degree of stability of the estimated rates and percentages. Vital statistics rates and percentages are also subject to random variation, which is inversely related to the number of events (e.g. deaths) used to calculate the rates and percentages. Therefore, standard errors and relative standard errors (coefficients of variation) are calculated to measure the reliability of the rates and percentages. Estimated rates and percentages that are categorized as unreliable (relative standard error  $\geq 23\%$ ) are marked on these tables with an asterisk ( \* ). The counties on these tables are ranked by the rates or percentages, regardless of their reliability, in ascending order. Those with identical rates or percentages are ranked next by the county's population size in descending order.

The "**Highlights**" and the explanatory "**Notes**" are adjacent to each of the tables. The explanatory "**Notes**" as well as the "**Technical Notes**" are provided to assist the readers with information on data limitations and qualifications for correctly interpreting and comparing these data among the counties. For those who may want to learn more about the problems associated with analysis of vital events involving small numbers, small area analysis, and age-adjusted death rates, references to relevant statistical publications are located in the Bibliography.

Data for this report have been provided by the California Department of Health Services' Center for Health Statistics, Division of Communicable Disease Control, Genetic Disease Branch, and the Office of AIDS. In addition, the Demographic Research Unit and the Census Data Center of the Department of Finance provided the 1990 census data and the 1998 and 1999 race/ethnic population estimates by county with age and sex detail, October and May 2000, respectively.

You may access this report online at the California Department of Health Services web page. The web page address for the index of publications where this report will be listed is : [www.dhs.ca.gov/hisp/chs/OHIR/publicationindex.htm](http://www.dhs.ca.gov/hisp/chs/OHIR/publicationindex.htm).

If you have questions about this report, or desire additional state or county health status data and statistics (either hard copy reports or electronic media), please write or phone:

**California Department of Health Services  
Center for Health Statistics  
304 S Street, Third Floor  
P. O. Box 730241  
Sacramento, CA 94244-0241  
Telephone (916) 445-6355**

Should you wish additional copies of **County Health Status Profiles**, instructions for placing your order appear in the back of this report.

## **TABLE 1: DEATHS DUE TO ALL CAUSES, 1997-1999**

California Counties Ranked By Three-Year Average Age-Adjusted Death Rate

*The crude death rate from all causes for California was 673.6 per 100,000 population, a risk of dying equivalent to approximately one death for every 148 persons. This rate was based on a three-year average number of deaths of 225,617.7 from 1997 to 1999, and a population of 33,492,817 as of July 1, 1998. Among counties with "reliable" rates, the crude rate ranged from 1,312.1 in Lake County to 380.5 in Mono County, a difference in rates by a factor of 3.4 to 1.*

*The age-adjusted death rate from all causes for California for the three-year period from 1997 to 1999 was 791.5 per 100,000 population. Reliable age-adjusted death rates ranged from 1,078.7 in Yuba County to 631.0 in San Benito County. The difference between crude and age-adjusted rates shows how the county age composition differs from the 2000 United States population (the "standard population").*

*A Year 2010 National Objective for deaths due to all causes has not been established.*

### **Notes:**

Death rates are per 100,000 population. The crude death rate is the actual risk of dying. The age-adjusted rate is the hypothetical rate that the State/County would have if its population were distributed by age in the same proportions as the 2000 United States population.

\* Death rate unreliable, relative standard error is greater than or equal to 23%.

Counties were rank ordered first by increasing age-adjusted death rate (calculated to 15 decimal places), second by decreasing size of the population. For purposes of this report, rates with a relative standard error of greater than or equal to 23% are considered "unreliable." The upper and lower limits of the age-adjusted death rate at the 95% confidence level indicate the precision of the estimated death rate. The wider the interval, the less precise the death rate. The upper and lower limits define the range within which the death rate probably would occur in 95 out of 100 independent sets of data similar to the present set. (For additional information see the Technical Notes, pages 63 through 72.)

### **DATA SOURCES**

Department of Health Services: Death Statistical Master Files, 1997-1999.

Department of Finance: 1998 Population Estimates with Age, Sex and Race/Ethnic Detail, October 2000.

**TABLE 1  
DEATHS DUE TO ALL CAUSES  
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE  
CALIFORNIA COUNTIES, 1997-1999**

| RANK ORDER  | COUNTY            | 1998 POPULATION   | 1997-1999 DEATHS (AVERAGE) | CRUDE DEATH RATE | AGE-ADJUSTED DEATH RATE | 95% CONFIDENCE LIMITS |              |
|---|-------------------|-------------------|----------------------------|------------------|-------------------------|-----------------------|--------------|
|   |                   |                   |                            |                  |                         | LOWER                 | UPPER        |
| <b>YEAR 2010 NATIONAL OBJECTIVE: NONE ESTABLISHED</b> |                   |                   |                            |                  |                         |                       |              |
| 1   | MONO              | 10,600            | 40.3                       | 380.5            | 496.4 *                 | 193.2                 | 799.6        |
| 2   | SAN BENITO        | 47,762            | 265.0                      | 554.8            | 631.0                   | 483.9                 | 778.1        |
| 3   | SAN MATEO         | 721,374           | 4,929.3                    | 683.3            | 686.6                   | 648.3                 | 725.0        |
| 4   | NEVADA            | 89,952            | 849.0                      | 943.8            | 687.3                   | 594.5                 | 780.1        |
| 5   | LASSEN            | 33,473            | 202.3                      | 604.5            | 701.9                   | 515.0                 | 888.7        |
| 6   | SIERRA            | 3,371             | 37.0                       | 1,097.6          | 702.8 *                 | 295.1                 | 1110.6       |
| 7   | SANTA CRUZ        | 250,763           | 1,647.3                    | 656.9            | 710.2                   | 643.7                 | 776.6        |
| 8   | SANTA BARBARA     | 404,996           | 2,859.0                    | 705.9            | 713.9                   | 663.5                 | 764.3        |
| 9   | SAN FRANCISCO     | 789,413           | 6,694.3                    | 848.0            | 719.9                   | 688.8                 | 751.1        |
| 10  | SANTA CLARA       | 1,701,372         | 8,937.3                    | 525.3            | 721.7                   | 688.8                 | 754.7        |
| 11  | SAN LUIS OBISPO   | 238,094           | 1,976.3                    | 830.1            | 743.5                   | 680.9                 | 806.1        |
| 12  | AMADOR            | 33,121            | 350.0                      | 1,056.7          | 744.1                   | 592.1                 | 896.1        |
| 13  | IMPERIAL          | 143,423           | 861.3                      | 600.6            | 745.8                   | 651.7                 | 839.9        |
| 14  | MARIN             | 244,911           | 1,841.0                    | 751.7            | 746.9                   | 674.3                 | 819.5        |
| 15  | MONTEREY          | 384,087           | 2,274.3                    | 592.1            | 747.1                   | 685.3                 | 808.9        |
| 16  | EL DORADO         | 150,152           | 1,093.3                    | 728.2            | 756.2                   | 661.2                 | 851.2        |
| 17  | VENTURA           | 738,121           | 4,551.7                    | 616.7            | 757.7                   | 712.9                 | 802.6        |
| 18  | MADERA            | 114,782           | 809.3                      | 705.1            | 770.1                   | 666.9                 | 873.3        |
| 19  | PLUMAS            | 20,370            | 210.7                      | 1,034.2          | 770.6                   | 568.4                 | 972.8        |
| 20  | CALAVERAS         | 38,222            | 394.7                      | 1,032.6          | 775.2                   | 625.6                 | 924.7        |
| 21  | SAN DIEGO         | 2,828,325         | 18,853.7                   | 666.6            | 778.5                   | 756.7                 | 800.3        |
| 22  | COLUSA            | 18,590            | 142.0                      | 763.9            | 779.1                   | 544.6                 | 1013.6       |
| 23  | INYO              | 18,236            | 206.3                      | 1,131.5          | 779.3                   | 584.1                 | 974.6        |
| 24  | CONTRA COSTA      | 916,897           | 6,526.0                    | 711.7            | 780.7                   | 742.2                 | 819.1        |
| 25  | MARIPOSA          | 16,060            | 173.7                      | 1,081.4          | 785.3                   | 569.7                 | 1000.9       |
| 26  | ORANGE            | 2,763,830         | 16,290.0                   | 589.4            | 789.8                   | 764.2                 | 815.3        |
| 27  | LOS ANGELES       | 9,639,736         | 59,535.7                   | 617.6            | 790.9                   | 778.3                 | 803.4        |
| 28  | ALPINE            | 1,189             | 8.0                        | 672.8 *          | 791.4 *                 | 0.0                   | 1924.5       |
|   | <b>CALIFORNIA</b> | <b>33,492,817</b> | <b>225,617.7</b>           | <b>673.6</b>     | <b>791.5</b>            | <b>785.1</b>          | <b>798.0</b> |
| 29  | GLENN             | 26,796            | 222.0                      | 828.5            | 792.7                   | 602.3                 | 983.1        |
| 30  | ALAMEDA           | 1,428,262         | 9,746.0                    | 682.4            | 794.1                   | 763.3                 | 824.9        |
| 31  | RIVERSIDE         | 1,458,486         | 11,673.7                   | 800.4            | 794.2                   | 766.8                 | 821.5        |
| 32  | TUOLUMNE          | 52,705            | 534.3                      | 1,013.8          | 794.5                   | 661.8                 | 927.2        |
| 33  | SONOMA            | 440,461           | 3,730.7                    | 847.0            | 799.3                   | 750.0                 | 848.5        |
| 34  | PLACER            | 223,121           | 1,689.7                    | 757.3            | 802.2                   | 724.4                 | 880.0        |
| 35  | NAPA              | 122,560           | 1,266.0                    | 1,033.0          | 815.8                   | 731.5                 | 900.1        |
| 36  | BUTTE             | 199,611           | 2,149.7                    | 1,076.9          | 816.1                   | 753.1                 | 879.2        |
| 37  | KINGS             | 124,184           | 717.0                      | 577.4            | 822.0                   | 710.6                 | 933.3        |
| 38  | FRESNO            | 785,081           | 5,333.7                    | 679.4            | 828.5                   | 785.9                 | 871.2        |
| 39  | SUTTER            | 76,645            | 628.7                      | 820.2            | 831.3                   | 708.8                 | 953.8        |
| 40  | YOLO              | 155,995           | 1,027.0                    | 658.4            | 841.3                   | 740.2                 | 942.5        |
| 41  | SAN JOAQUIN       | 551,531           | 4,190.3                    | 759.8            | 843.0                   | 795.6                 | 890.4        |
| 42  | TEHAMA            | 55,130            | 583.0                      | 1,057.5          | 843.2                   | 715.5                 | 970.9        |
| 43  | TULARE            | 361,420           | 2,577.7                    | 713.2            | 848.5                   | 787.2                 | 909.9        |
| 44  | SISKIYOU          | 43,968            | 468.0                      | 1,064.4          | 854.8                   | 705.8                 | 1003.9       |
| 45  | KERN              | 640,005           | 4,565.0                    | 713.3            | 866.2                   | 818.8                 | 913.6        |
| 46  | DEL NORTE         | 27,804            | 254.3                      | 914.7            | 867.5                   | 681.6                 | 1053.3       |
| 47  | SOLANO            | 385,372           | 2,340.3                    | 607.3            | 868.2                   | 793.4                 | 943.0        |
| 48  | MENDOCINO         | 86,212            | 791.3                      | 917.9            | 872.8                   | 755.5                 | 990.0        |
| 49  | MODOC             | 9,845             | 112.7                      | 1,144.4          | 875.6                   | 554.2                 | 1196.9       |
| 50  | SACRAMENTO        | 1,176,182         | 8,804.0                    | 748.5            | 877.0                   | 840.1                 | 913.9        |
| 51  | LAKE              | 55,079            | 722.7                      | 1,312.1          | 877.3                   | 763.0                 | 991.6        |
| 52  | STANISLAUS        | 431,029           | 3,331.3                    | 772.9            | 909.4                   | 850.2                 | 968.6        |
| 53  | MERCED            | 204,352           | 1,361.0                    | 666.0            | 913.8                   | 814.5                 | 1013.0       |
| 54  | SAN BERNARDINO    | 1,645,702         | 10,720.0                   | 651.4            | 923.5                   | 888.1                 | 958.9        |
| 55  | HUMBOLDT          | 125,778           | 1,158.3                    | 920.9            | 942.0                   | 838.8                 | 1045.2       |
| 56  | SHASTA            | 164,748           | 1,685.3                    | 1,023.0          | 946.2                   | 857.9                 | 1034.4       |
| 57  | TRINITY           | 13,184            | 150.0                      | 1,137.7          | 981.7                   | 669.3                 | 1294.2       |
| 58  | YUBA              | 60,347            | 525.0                      | 870.0            | 1,078.7                 | 902.7                 | 1254.8       |

## **TABLE 2: DEATHS DUE TO MOTOR VEHICLE CRASHES, 1999**

### California Counties Ranked by Age-Adjusted Death Rate

*The crude death rate from motor vehicle crashes for California was 9.2 per 100,000 population, a risk of dying equivalent to approximately one death for every 10,851 persons. This rate was based on the number of deaths of 3,140 in 1999 and a population of 34,072,478 as of July 1, 1999. Among counties with "reliable" rates, the crude rate ranged from 24.4 in Fresno County to 5.1 in Santa Barbara County, a difference in rates by a factor of 4.8 to 1.*

*The age-adjusted death rate from motor vehicle crashes for California for 1999 was 9.5 per 100,000 population. Reliable age-adjusted death rates ranged from 25.2 in Fresno County to 5.2 in Santa Barbara County. The difference between crude and age-adjusted rates shows how the county age composition differs from the 2000 United States population.*

*Altogether 26 counties (12 with reliable age-adjusted death rates), but not California as a whole, met the Year 2010 National Objective of 9.2 age-adjusted rate due to motor vehicle crashes per 100,000 population.*

#### **Notes:**

Death rates are per 100,000 population. The crude death rate is the actual risk of dying. The age-adjusted rate is the hypothetical rate that the State/County would have if its population were distributed by age in the same proportions as the 2000 United States population.

- \* Death rate unreliable, relative standard error is greater than or equal to 23%.
- + Standard error indeterminate, death rate based on no (zero) deaths.
- Upper and lower limits at the 95% confidence level are not calculated for no (zero) deaths.

Counties were rank ordered first by increasing age-adjusted death rate (calculated to 15 decimal places), second by decreasing size of the population. For purposes of this report, rates with a relative standard error of greater than or equal to 23% are considered "unreliable." The upper and lower limits of the age-adjusted death rate at the 95% confidence level indicate the precision of the estimated death rate. The wider the interval, the less precise the death rate. The upper and lower limits define the range within which the death rate probably would occur in 95 out of 100 independent sets of data similar to the present set. (For additional information see the Technical Notes, pages 63 through 72.)

#### **DATA SOURCES**

Department of Health Services: Death Statistical Master Files, 1999.

Department of Finance: 1999 Population Projections with Age, Sex and Race/Ethnic Detail, May 2000.

**TABLE 2  
DEATHS DUE TO MOTOR VEHICLE CRASHES  
RANKED BY AGE-ADJUSTED DEATH RATE  
CALIFORNIA COUNTIES, 1999**

| RANK ORDER                           | COUNTY            | 1999 POPULATION   | 1999 DEATHS  | CRUDE DEATH RATE | AGE-ADJUSTED DEATH RATE | 95% CONFIDENCE LIMITS |            |
|--------------------------------------|-------------------|-------------------|--------------|------------------|-------------------------|-----------------------|------------|
|                                      |                   |                   |              |                  |                         | LOWER                 | UPPER      |
| 1                                    | MONO              | 10,730            | 0            | 0.0 +            | 0.0 +                   | -                     | -          |
| 2                                    | MODOC             | 10,384            | 0            | 0.0 +            | 0.0 +                   | -                     | -          |
| 3                                    | SIERRA            | 3,427             | 0            | 0.0 +            | 0.0 +                   | -                     | -          |
| 4                                    | ALPINE            | 1,226             | 0            | 0.0 +            | 0.0 +                   | -                     | -          |
| 5                                    | DEL NORTE         | 30,358            | 1            | 3.3 *            | 2.9 *                   | 0.0                   | 8.5        |
| 6                                    | LASSEN            | 35,208            | 1            | 2.8 *            | 3.2 *                   | 0.0                   | 9.4        |
| 7                                    | SANTA CRUZ        | 255,825           | 9            | 3.5 *            | 3.6 *                   | 1.2                   | 6.0        |
| 8                                    | MARIN             | 247,073           | 11           | 4.5 *            | 4.3 *                   | 1.7                   | 6.9        |
| 9                                    | COLUSA            | 20,091            | 1            | 5.0 *            | 5.1 *                   | 0.0                   | 15.1       |
| 10                                   | SANTA BARBARA     | 408,292           | 21           | 5.1              | 5.2                     | 3.0                   | 7.4        |
| 11                                   | SAN MATEO         | 735,381           | 41           | 5.6              | 5.6                     | 3.9                   | 7.3        |
| 12                                   | SAN FRANCISCO     | 788,975           | 51           | 6.5              | 6.4                     | 4.6                   | 8.2        |
| 13                                   | ALAMEDA           | 1,448,643         | 97           | 6.7              | 6.9                     | 5.5                   | 8.2        |
| 14                                   | SANTA CLARA       | 1,732,034         | 116          | 6.7              | 7.3                     | 5.9                   | 8.6        |
| 15                                   | NEVADA            | 94,014            | 7            | 7.4 *            | 7.3 *                   | 1.8                   | 12.8       |
| 16                                   | PLACER            | 233,836           | 17           | 7.3 *            | 7.3 *                   | 3.8                   | 10.9       |
| 17                                   | YOLO              | 160,805           | 10           | 6.2 *            | 7.3 *                   | 2.7                   | 12.0       |
| 18                                   | CONTRA COSTA      | 921,662           | 66           | 7.2              | 7.4                     | 5.6                   | 9.2        |
| 19                                   | EL DORADO         | 156,996           | 12           | 7.6 *            | 7.4 *                   | 3.2                   | 11.6       |
| 20                                   | SAN LUIS OBISPO   | 247,880           | 21           | 8.5              | 7.9                     | 4.4                   | 11.3       |
| 21                                   | ORANGE            | 2,787,593         | 210          | 7.5              | 7.9                     | 6.8                   | 8.9        |
| 22                                   | LOS ANGELES       | 9,727,841         | 751          | 7.7              | 8.2                     | 7.6                   | 8.8        |
| 23                                   | SAN DIEGO         | 2,884,572         | 238          | 8.3              | 8.4                     | 7.3                   | 9.5        |
| 24                                   | VENTURA           | 744,825           | 63           | 8.5              | 8.6                     | 6.5                   | 10.7       |
| 25                                   | SACRAMENTO        | 1,189,056         | 103          | 8.7              | 8.9                     | 7.2                   | 10.6       |
| 26                                   | MENDOCINO         | 88,978            | 8            | 9.0 *            | 9.1 *                   | 2.8                   | 15.5       |
| <b>YEAR 2010 NATIONAL OBJECTIVE:</b> |                   |                   |              |                  | <b>9.2</b>              |                       |            |
| 27                                   | MONTEREY          | 395,133           | 34           | 8.6              | 9.5                     | 6.3                   | 12.7       |
|                                      | <b>CALIFORNIA</b> | <b>34,072,478</b> | <b>3,140</b> | <b>9.2</b>       | <b>9.5</b>              | <b>9.2</b>            | <b>9.8</b> |
| 28                                   | SOLANO            | 392,201           | 37           | 9.4              | 9.6                     | 6.5                   | 12.8       |
| 29                                   | NAPA              | 125,123           | 13           | 10.4 *           | 10.2 *                  | 4.6                   | 15.7       |
| 30                                   | SUTTER            | 79,992            | 8            | 10.0 *           | 10.3 *                  | 3.1                   | 17.5       |
| 31                                   | SAN BENITO        | 50,087            | 5            | 10.0 *           | 11.0 *                  | 1.3                   | 20.6       |
| 32                                   | SONOMA            | 450,187           | 49           | 10.9             | 11.2                    | 8.0                   | 14.3       |
| 33                                   | RIVERSIDE         | 1,519,469         | 175          | 11.5             | 11.8                    | 10.0                  | 13.5       |
| 34                                   | INYO              | 18,348            | 2            | 10.9 *           | 12.0 *                  | 0.0                   | 28.7       |
| 35                                   | HUMBOLDT          | 127,658           | 17           | 13.3 *           | 12.9 *                  | 6.8                   | 19.1       |
| 36                                   | SHASTA            | 171,211           | 22           | 12.8             | 13.0                    | 7.6                   | 18.5       |
| 37                                   | BUTTE             | 204,216           | 27           | 13.2             | 13.6                    | 8.5                   | 18.8       |
| 38                                   | SAN BERNARDINO    | 1,688,984         | 216          | 12.8             | 13.8                    | 11.9                  | 15.6       |
| 39                                   | SISKIYOU          | 44,847            | 6            | 13.4 *           | 14.4 *                  | 2.7                   | 26.2       |
| 40                                   | KERN              | 662,472           | 91           | 13.7             | 14.5                    | 11.5                  | 17.5       |
| 41                                   | SAN JOAQUIN       | 566,793           | 82           | 14.5             | 14.7                    | 11.5                  | 17.9       |
| 42                                   | TEHAMA            | 55,806            | 9            | 16.1 *           | 14.8 *                  | 5.0                   | 24.6       |
| 43                                   | STANISLAUS        | 446,056           | 63           | 14.1             | 14.9                    | 11.2                  | 18.6       |
| 44                                   | LAKE              | 58,335            | 10           | 17.1 *           | 15.0 *                  | 5.2                   | 24.7       |
| 45                                   | TUOLUMNE          | 54,631            | 8            | 14.6 *           | 15.1 *                  | 4.6                   | 25.7       |
| 46                                   | TRINITY           | 13,353            | 2            | 15.0 *           | 15.1 *                  | 0.0                   | 36.6       |
| 47                                   | AMADOR            | 34,410            | 6            | 17.4 *           | 16.4 *                  | 2.6                   | 30.1       |
| 48                                   | GLENN             | 28,438            | 5            | 17.6 *           | 16.7 *                  | 1.9                   | 31.4       |
| 49                                   | TULARE            | 371,640           | 65           | 17.5             | 17.7                    | 13.3                  | 22.1       |
| 50                                   | MADERA            | 121,779           | 22           | 18.1             | 18.0                    | 10.4                  | 25.5       |
| 51                                   | MERCED            | 210,707           | 35           | 16.6             | 18.1                    | 11.9                  | 24.2       |
| 52                                   | IMPERIAL          | 150,381           | 25           | 16.6             | 18.5                    | 10.9                  | 26.0       |
| 53                                   | KINGS             | 123,683           | 21           | 17.0             | 19.8                    | 11.0                  | 28.6       |
| 54                                   | YUBA              | 63,062            | 13           | 20.6 *           | 22.1 *                  | 10.0                  | 34.2       |
| 55                                   | PLUMAS            | 20,714            | 5            | 24.1 *           | 23.3 *                  | 1.6                   | 45.0       |
| 56                                   | FRESNO            | 800,121           | 195          | 24.4             | 25.2                    | 21.7                  | 28.8       |
| 57                                   | CALAVERAS         | 40,597            | 12           | 29.6 *           | 28.1 *                  | 11.2                  | 45.1       |
| 58                                   | MARIPOSA          | 16,339            | 5            | 30.6 *           | 29.5 *                  | 2.3                   | 56.7       |

### **TABLE 3: DEATHS DUE TO UNINTENTIONAL INJURIES, 1999**

#### California Counties Ranked by Age-Adjusted Death Rate

*The crude death rate from unintentional injuries for California was 26.2 per 100,000 population, a risk of dying equivalent to approximately one death for every 3,811 persons. This rate was based on the 1999 number of deaths of 8,940 and a population of 34,072,478 as of July 1, 1999. Among counties with "reliable" rates, the crude rate ranged from 66.6 in Yuba County to 17.3 in Santa Clara County, a difference in rates by a factor of 3.8 to 1.*

*The age-adjusted death rate from unintentional injuries for California for 1999 was 27.5 per 100,000 population. Reliable age-adjusted death rates ranged from 72.9 in Yuba County to 19.2 in Santa Clara County. The difference between crude and age-adjusted rates shows how the county age composition differs from the 2000 United States population.*

*Altogether 5 counties (none with reliable age-adjusted death rates), but not California as a whole, met the Year 2010 National Objective of 17.5 age-adjusted death rate due to unintentional injuries per 100,000 population.*

#### **Notes:**

Death rates are per 100,000 population. The crude death rate is the actual risk of dying. The age-adjusted rate is the hypothetical rate that the State/County would have if its population were distributed by age in the same proportions as the 2000 United States population.

- \* Death rate unreliable, relative standard error is greater than or equal to 23%.
- + Standard error indeterminate, death rate based on no (zero) deaths.
- Upper and lower limits at the 95% confidence level are not calculated for no (zero) deaths.

Counties were rank ordered first by increasing age-adjusted death rate (calculated to 15 decimal places), second by decreasing size of the population. For purposes of this report, rates with a relative standard error of greater than or equal to 23% are considered "unreliable." The upper and lower limits of the age-adjusted death rate at the 95% confidence level indicate the precision of the estimated death rate. The wider the interval, the less precise the death rate. The upper and lower limits define the range within which the death rate probably would occur in 95 out of 100 independent sets of data similar to the present set. (For additional information see the Technical Notes, pages 63 through 72.)

#### **DATA SOURCES**

Department of Health Services: Death Statistical Master Files, 1999.

Department of Finance: 1999 Population Projections with Age, Sex and Race/Ethnic Detail, May 2000.

**TABLE 3  
DEATHS DUE TO UNINTENTIONAL INJURIES  
RANKED BY AGE-ADJUSTED DEATH RATES  
CALIFORNIA COUNTIES, 1999**

| RANK<br>ORDER                        | COUNTY          | 1999<br>POPULATION | 1999<br>DEATHS | CRUDE<br>DEATH RATE | AGE-ADJUSTED<br>DEATH RATE | 95% CONFIDENCE LIMITS |             |
|--------------------------------------|-----------------|--------------------|----------------|---------------------|----------------------------|-----------------------|-------------|
|                                      |                 |                    |                |                     |                            | LOWER                 | UPPER       |
| 1                                    | MODOC           | 10,384             | 0              | 0.0 +               | 0.0 +                      | -                     | -           |
| 2                                    | SIERRA          | 3,427              | 0              | 0.0 +               | 0.0 +                      | -                     | -           |
| 3                                    | ALPINE          | 1,226              | 0              | 0.0 +               | 0.0 +                      | -                     | -           |
| 4                                    | LASSEN          | 35,208             | 4              | 11.4 *              | 12.6 *                     | 0.2                   | 25.0        |
| 5                                    | COLUSA          | 20,091             | 3              | 14.9 *              | 15.4 *                     | 0.0                   | 32.8        |
| <b>YEAR 2010 NATIONAL OBJECTIVE:</b> |                 |                    |                |                     | <b>17.5</b>                |                       |             |
| 6                                    | SANTA CLARA     | 1,732,034          | 299            | 17.3                | 19.2                       | 16.9                  | 21.4        |
| 7                                    | MONO            | 10,730             | 2              | 18.6 *              | 20.7 *                     | 0.0                   | 49.4        |
| 8                                    | SAN MATEO       | 735,381            | 154            | 20.9                | 20.8                       | 17.5                  | 24.1        |
| 9                                    | MARIN           | 247,073            | 55             | 22.3                | 21.8                       | 16.0                  | 27.6        |
| 10                                   | LOS ANGELES     | 9,727,841          | 2,002          | 20.6                | 22.1                       | 21.1                  | 23.0        |
| 11                                   | SOLANO          | 392,201            | 76             | 19.4                | 22.3                       | 17.1                  | 27.5        |
| 12                                   | SANTA CRUZ      | 255,825            | 57             | 22.3                | 23.2                       | 17.1                  | 29.3        |
| 13                                   | SAN BENITO      | 50,087             | 11             | 22.0 *              | 24.0 *                     | 9.7                   | 38.2        |
| 14                                   | ORANGE          | 2,787,593          | 623            | 22.3                | 24.6                       | 22.6                  | 26.5        |
| 15                                   | ALAMEDA         | 1,448,643          | 345            | 23.8                | 24.6                       | 22.0                  | 27.3        |
| 16                                   | CONTRA COSTA    | 921,662            | 226            | 24.5                | 25.2                       | 21.9                  | 28.5        |
| 17                                   | INYO            | 18,348             | 5              | 27.3 *              | 26.6 *                     | 2.7                   | 50.6        |
| 18                                   | SAN BERNARDINO  | 1,688,984          | 406            | 24.0                | 27.1                       | 24.4                  | 29.9        |
| <b>CALIFORNIA</b>                    |                 | <b>34,072,478</b>  | <b>8,940</b>   | <b>26.2</b>         | <b>27.5</b>                | <b>26.9</b>           | <b>28.1</b> |
| 19                                   | YOLO            | 160,805            | 38             | 23.6                | 27.8                       | 18.8                  | 36.8        |
| 20                                   | SAN DIEGO       | 2,884,572          | 753            | 26.1                | 28.0                       | 26.0                  | 30.1        |
| 21                                   | PLACER          | 233,836            | 67             | 28.7                | 28.7                       | 21.8                  | 35.6        |
| 22                                   | SACRAMENTO      | 1,189,056          | 325            | 27.3                | 28.8                       | 25.6                  | 31.9        |
| 23                                   | VENTURA         | 744,825            | 201            | 27.0                | 28.9                       | 24.9                  | 33.0        |
| 24                                   | AMADOR          | 34,410             | 12             | 34.9 *              | 30.4 *                     | 12.2                  | 48.5        |
| 25                                   | NAPA            | 125,123            | 41             | 32.8                | 30.4                       | 21.0                  | 39.8        |
| 26                                   | EL DORADO       | 156,996            | 47             | 29.9                | 30.6                       | 21.8                  | 39.5        |
| 27                                   | MONTEREY        | 395,133            | 110            | 27.8                | 30.9                       | 25.1                  | 36.7        |
| 28                                   | SONOMA          | 450,187            | 144            | 32.0                | 31.4                       | 26.2                  | 36.5        |
| 29                                   | SAN LUIS OBISPO | 247,880            | 81             | 32.7                | 31.9                       | 24.8                  | 39.1        |
| 30                                   | RIVERSIDE       | 1,519,469          | 481            | 31.7                | 32.4                       | 29.5                  | 35.3        |
| 31                                   | SAN FRANCISCO   | 788,975            | 288            | 36.5                | 33.5                       | 29.5                  | 37.4        |
| 32                                   | GLENN           | 28,438             | 10             | 35.2 *              | 33.6 *                     | 12.6                  | 54.5        |
| 33                                   | MERCED          | 210,707            | 64             | 30.4                | 34.5                       | 25.9                  | 43.2        |
| 34                                   | SANTA BARBARA   | 408,292            | 144            | 35.3                | 34.8                       | 29.1                  | 40.5        |
| 35                                   | DEL NORTE       | 30,358             | 11             | 36.2 *              | 35.0 *                     | 14.2                  | 55.8        |
| 36                                   | NEVADA          | 94,014             | 36             | 38.3                | 36.0                       | 23.8                  | 48.2        |
| 37                                   | SAN JOAQUIN     | 566,793            | 209            | 36.9                | 38.3                       | 33.0                  | 43.5        |
| 38                                   | KERN            | 662,472            | 244            | 36.8                | 39.5                       | 34.5                  | 44.5        |
| 39                                   | SISKIYOU        | 44,847             | 18             | 40.1 *              | 39.9 *                     | 21.0                  | 58.8        |
| 40                                   | STANISLAUS      | 446,056            | 172            | 38.6                | 41.4                       | 35.2                  | 47.6        |
| 41                                   | TUOLUMNE        | 54,631             | 24             | 43.9                | 41.6                       | 24.6                  | 58.5        |
| 42                                   | MENDOCINO       | 88,978             | 37             | 41.6                | 41.9                       | 28.3                  | 55.5        |
| 43                                   | KINGS           | 123,683            | 43             | 34.8                | 42.1                       | 29.0                  | 55.1        |
| 44                                   | SUTTER          | 79,992             | 34             | 42.5                | 42.5                       | 28.2                  | 56.8        |
| 45                                   | MADERA          | 121,779            | 50             | 41.1                | 43.4                       | 31.3                  | 55.5        |
| 46                                   | FRESNO          | 800,121            | 328            | 41.0                | 43.4                       | 38.7                  | 48.2        |
| 47                                   | BUTTE           | 204,216            | 91             | 44.6                | 43.7                       | 34.6                  | 52.9        |
| 48                                   | TULARE          | 371,640            | 160            | 43.1                | 46.0                       | 38.8                  | 53.2        |
| 49                                   | IMPERIAL        | 150,381            | 77             | 51.2                | 47.7                       | 35.6                  | 59.7        |
| 50                                   | HUMBOLDT        | 127,658            | 68             | 53.3                | 52.0                       | 39.7                  | 64.4        |
| 51                                   | SHASTA          | 171,211            | 94             | 54.9                | 55.0                       | 43.8                  | 66.2        |
| 52                                   | PLUMAS          | 20,714             | 11             | 53.1 *              | 55.1 *                     | 20.6                  | 89.5        |
| 53                                   | TEHAMA          | 55,806             | 33             | 59.1                | 55.4                       | 36.1                  | 74.7        |
| 54                                   | CALAVERAS       | 40,597             | 23             | 56.7                | 55.5                       | 31.8                  | 79.3        |
| 55                                   | LAKE            | 58,335             | 34             | 58.3                | 58.1                       | 37.6                  | 78.6        |
| 56                                   | YUBA            | 63,062             | 42             | 66.6                | 72.9                       | 50.7                  | 95.1        |
| 57                                   | TRINITY         | 13,353             | 11             | 82.4 *              | 84.7 *                     | 33.8                  | 135.7       |
| 58                                   | MARIPOSA        | 16,339             | 16             | 97.9 *              | 94.8 *                     | 46.1                  | 143.5       |

## **TABLE 4: DEATHS DUE TO FIREARM INJURIES, 1999**

### California Counties Ranked by Age-Adjusted Death Rate

*The crude death rate from firearm injuries for California was 8.8 per 100,000 population, a risk of dying equivalent to approximately one death for every 11,308 persons. This rate was based on the 1999 number of deaths of 3,013 and a population of 34,072,478 as of July 1, 1999. Among counties with "reliable" rates, the crude rate ranged from 19.9 in Shasta County to 4.7 in Santa Barbara County, a difference in rates by a factor of 4.2 to 1.*

*The age-adjusted death rate from firearm injuries for California for 1999 was 9.2 per 100,000 population. Reliable age-adjusted death rates ranged from 19.5 in Shasta County to 4.9 in Santa Barbara County. The difference between crude and age-adjusted rates shows how the county age composition differs from the 2000 United States population.*

*Altogether 6 counties (none with reliable age-adjusted death rates), but not California as a whole, met the Year 2010 National Objective of 4.1 age-adjusted deaths due to firearm-related injuries per 100,000 population.*

#### **Notes:**

Death rates are per 100,000 population. The crude death rate is the actual risk of dying. The age-adjusted rate is the hypothetical rate that the State/County would have if its population were distributed by age in the same proportions as the 2000 United States population.

- \* Death rate unreliable, relative standard error is greater than or equal to 23%.
- + Standard error indeterminate, death rate based on no (zero) deaths.
- Upper and lower limits at the 95% confidence level are not calculated for no (zero) deaths.

Counties were rank ordered first by increasing age-adjusted death rate (calculated to 15 decimal places), second by decreasing size of the population. For purposes of this report, rates with a relative standard error of greater than or equal to 23% are considered "unreliable." The upper and lower limits of the age-adjusted death rate at the 95% confidence level indicate the precision of the estimated death rate. The wider the interval, the less precise the death rate. The upper and lower limits define the range within which the death rate probably would occur in 95 out of 100 independent sets of data similar to the present set. (For additional information see the Technical Notes, pages 63 through 72.)

#### **DATA SOURCES**

Department of Health Services: Death Statistical Master Files, 1999.

Department of Finance: 1999 Population Projections with Age, Sex and Race/Ethnic Detail, May 2000.

**TABLE 4**  
**DEATHS DUE TO FIREARM INJURIES**  
**RANKED BY AGE-ADJUSTED DEATH RATES**  
**CALIFORNIA COUNTIES, 1999**

| RANK ORDER                           | COUNTY            | 1999 POPULATION   | 1999 DEATHS  | CRUDE DEATH RATE | AGE-ADJUSTED DEATH RATE | 95% CONFIDENCE LIMITS |            |
|--------------------------------------|-------------------|-------------------|--------------|------------------|-------------------------|-----------------------|------------|
|                                      |                   |                   |              |                  |                         | LOWER                 | UPPER      |
| 1                                    | DEL NORTE         | 30,358            | 0            | 0.0 +            | 0.0 +                   | -                     | -          |
| 2                                    | ALPINE            | 1,226             | 0            | 0.0 +            | 0.0 +                   | -                     | -          |
| 3                                    | SAN BENITO        | 50,087            | 1            | 2.0 *            | 2.2 *                   | 0.0                   | 6.6        |
| 4                                    | MARIN             | 247,073           | 6            | 2.4 *            | 2.4 *                   | 0.5                   | 4.4        |
| 5                                    | KINGS             | 123,683           | 3            | 2.4 *            | 3.3 *                   | 0.0                   | 7.2        |
| 6                                    | MARIPOSA          | 16,339            | 1            | 6.1 *            | 3.8 *                   | 0.0                   | 11.2       |
| <b>YEAR 2010 NATIONAL OBJECTIVE:</b> |                   |                   |              |                  | <b>4.1</b>              |                       |            |
| 7                                    | SANTA CRUZ        | 255,825           | 12           | 4.7 *            | 4.7 *                   | 2.0                   | 7.5        |
| 8                                    | SANTA BARBARA     | 408,292           | 19           | 4.7              | 4.9                     | 2.7                   | 7.1        |
| 9                                    | SANTA CLARA       | 1,732,034         | 81           | 4.7              | 5.1                     | 3.9                   | 6.2        |
| 10                                   | SUTTER            | 79,992            | 4            | 5.0 *            | 5.1 *                   | 0.1                   | 10.0       |
| 11                                   | SAN LUIS OBISPO   | 247,880           | 13           | 5.2 *            | 5.2 *                   | 2.3                   | 8.0        |
| 12                                   | SAN MATEO         | 735,381           | 40           | 5.4              | 5.4                     | 3.7                   | 7.0        |
| 13                                   | PLACER            | 233,836           | 13           | 5.6 *            | 5.7 *                   | 2.6                   | 8.8        |
| 14                                   | SONOMA            | 450,187           | 28           | 6.2              | 6.2                     | 3.9                   | 8.5        |
| 15                                   | IMPERIAL          | 150,381           | 9            | 6.0 *            | 6.2 *                   | 2.0                   | 10.4       |
| 16                                   | SAN FRANCISCO     | 788,975           | 50           | 6.3              | 6.4                     | 4.6                   | 8.2        |
| 17                                   | INYO              | 18,348            | 1            | 5.5 *            | 6.5 *                   | 0.0                   | 19.2       |
| 18                                   | NAPA              | 125,123           | 8            | 6.4 *            | 6.5 *                   | 2.0                   | 11.1       |
| 19                                   | VENTURA           | 744,825           | 46           | 6.2              | 6.7                     | 4.7                   | 8.6        |
| 20                                   | ORANGE            | 2,787,593         | 172          | 6.2              | 6.7                     | 5.7                   | 7.8        |
| 21                                   | SAN DIEGO         | 2,884,572         | 197          | 6.8              | 7.3                     | 6.2                   | 8.3        |
| 22                                   | SOLANO            | 392,201           | 29           | 7.4              | 7.9                     | 4.9                   | 10.8       |
| 23                                   | ALAMEDA           | 1,448,643         | 120          | 8.3              | 8.5                     | 7.0                   | 10.1       |
| 24                                   | BUTTE             | 204,216           | 18           | 8.8 *            | 8.5 *                   | 4.5                   | 12.5       |
| 25                                   | STANISLAUS        | 446,056           | 37           | 8.3              | 8.6                     | 5.8                   | 11.4       |
| 26                                   | MONTEREY          | 395,133           | 35           | 8.9              | 9.2                     | 6.1                   | 12.2       |
|                                      | <b>CALIFORNIA</b> | <b>34,072,478</b> | <b>3,013</b> | <b>8.8</b>       | <b>9.2</b>              | <b>8.8</b>            | <b>9.5</b> |
| 27                                   | FRESNO            | 800,121           | 68           | 8.5              | 9.3                     | 7.1                   | 11.6       |
| 28                                   | TULARE            | 371,640           | 34           | 9.1              | 9.5                     | 6.3                   | 12.7       |
| 29                                   | SACRAMENTO        | 1,189,056         | 114          | 9.6              | 9.8                     | 8.0                   | 11.6       |
| 30                                   | RIVERSIDE         | 1,519,469         | 146          | 9.6              | 9.9                     | 8.3                   | 11.5       |
| 31                                   | MONO              | 10,730            | 1            | 9.3 *            | 10.1 *                  | 0.0                   | 29.9       |
| 32                                   | SAN JOAQUIN       | 566,793           | 57           | 10.1             | 10.3                    | 7.6                   | 13.0       |
| 33                                   | LAKE              | 58,335            | 7            | 12.0 *           | 10.4 *                  | 2.2                   | 18.5       |
| 34                                   | YOLO              | 160,805           | 15           | 9.3 *            | 10.4 *                  | 5.0                   | 15.8       |
| 35                                   | EL DORADO         | 156,996           | 16           | 10.2 *           | 10.5 *                  | 5.3                   | 15.6       |
| 36                                   | CONTRA COSTA      | 921,662           | 96           | 10.4             | 10.6                    | 8.5                   | 12.8       |
| 37                                   | SISKIYOU          | 44,847            | 5            | 11.1 *           | 10.7 *                  | 1.0                   | 20.3       |
| 38                                   | MADERA            | 121,779           | 12           | 9.9 *            | 10.8 *                  | 4.6                   | 17.0       |
| 39                                   | YUBA              | 63,062            | 6            | 9.5 *            | 10.9 *                  | 2.1                   | 19.7       |
| 40                                   | KERN              | 662,472           | 69           | 10.4             | 11.1                    | 8.4                   | 13.7       |
| 41                                   | TEHAMA            | 55,806            | 6            | 10.8 *           | 11.2 *                  | 2.1                   | 20.2       |
| 42                                   | MERCED            | 210,707           | 23           | 10.9             | 11.3                    | 6.6                   | 16.0       |
| 43                                   | LOS ANGELES       | 9,727,841         | 1,077        | 11.1             | 11.7                    | 11.0                  | 12.4       |
| 44                                   | HUMBOLDT          | 127,658           | 16           | 12.5 *           | 12.3 *                  | 6.3                   | 18.3       |
| 45                                   | NEVADA            | 94,014            | 12           | 12.8 *           | 12.5 *                  | 5.1                   | 19.9       |
| 46                                   | SAN BERNARDINO    | 1,688,984         | 198          | 11.7             | 12.7                    | 10.9                  | 14.5       |
| 47                                   | PLUMAS            | 20,714            | 3            | 14.5 *           | 13.2 *                  | 0.0                   | 28.6       |
| 48                                   | CALAVERAS         | 40,597            | 5            | 12.3 *           | 13.2 *                  | 1.2                   | 25.1       |
| 49                                   | LASSEN            | 35,208            | 5            | 14.2 *           | 13.7 *                  | 1.4                   | 26.0       |
| 50                                   | TUOLUMNE          | 54,631            | 9            | 16.5 *           | 14.4 *                  | 4.8                   | 23.9       |
| 51                                   | GLENN             | 28,438            | 4            | 14.1 *           | 15.0 *                  | 0.2                   | 29.8       |
| 52                                   | MODOC             | 10,384            | 2            | 19.3 *           | 15.8 *                  | 0.0                   | 37.9       |
| 53                                   | MENDOCINO         | 88,978            | 14           | 15.7 *           | 16.8 *                  | 7.9                   | 25.6       |
| 54                                   | AMADOR            | 34,410            | 7            | 20.3 *           | 17.8 *                  | 4.1                   | 31.5       |
| 55                                   | SHASTA            | 171,211           | 34           | 19.9             | 19.5                    | 12.9                  | 26.1       |
| 56                                   | COLUSA            | 20,091            | 4            | 19.9 *           | 20.7 *                  | 0.3                   | 41.2       |
| 57                                   | TRINITY           | 13,353            | 4            | 30.0 *           | 24.1 *                  | 0.4                   | 47.8       |
| 58                                   | SIERRA            | 3,427             | 1            | 29.2 *           | 34.9 *                  | 0.0                   | 103.3      |

## **TABLE 5: DEATHS DUE TO HOMICIDE, 1999**

### California Counties Ranked by Age-Adjusted Death Rate

*The crude death rate from homicide for California was 6.0 per 100,000 population, a risk of dying equivalent to approximately one death for every 16,686 persons. This rate was based on the 1999 number of deaths of 2,042 a population of 34,072,478 as of July 1, 1999. Among counties with "reliable" rates, the crude rate ranged from 9.2 in Los Angeles County to 2.3 in Santa Clara County, a difference in rates by a factor of 4 to 1.*

*The age-adjusted death rate from homicide for California for 1999 was 6.0 per 100,000 population. Reliable age-adjusted death rates ranged from 9.4 in Los Angeles County to 2.2 in Santa Clara County. The difference between crude and age-adjusted rates shows how the county age composition differs from the 2000 United States population.*

*Altogether 25 counties (2 with reliable age-adjusted death rates), but not California as a whole, met the Year 2010 National Objective of 3.0 age-adjusted deaths due to homicide per 100,000 population.*

#### **Notes:**

Death rates are per 100,000 population. The crude death rate is the actual risk of dying. The age-adjusted rate is the hypothetical rate that the State/County would have if its population were distributed by age in the same proportions as the 2000 United States population.

- \* Death rate unreliable, relative standard error is greater than or equal to 23%.
- + Standard error indeterminate, death rate based on no (zero) deaths.
- Upper and lower limits at the 95% confidence level are not calculated for no (zero) deaths.

Counties were rank ordered first by increasing age-adjusted death rate (calculated to 15 decimal places), second by decreasing size of the population. For purposes of this report, rates with a relative standard error of greater than or equal to 23% are considered "unreliable." The upper and lower limits of the age-adjusted death rate at the 95% confidence level indicate the precision of the estimated death rate. The wider the interval, the less precise the death rate. The upper and lower limits define the range within which the death rate probably would occur in 95 out of 100 independent sets of data similar to the present set. (For additional information see the Technical Notes, pages 63 through 72.)

#### **DATA SOURCES**

Department of Health Services: Death Statistical Master Files, 1999.

Department of Finance: 1999 Population Projections with Age, Sex and Race/Ethnic Detail, May 2000.

**TABLE 5  
DEATHS DUE TO HOMICIDE  
RANKED BY AGE-ADJUSTED DEATH RATES  
CALIFORNIA COUNTIES, 1999**

| RANK ORDER                           | COUNTY          | 1999 POPULATION   | 1999 DEATHS  | CRUDE DEATH RATE | AGE-ADJUSTED DEATH RATE | 95% CONFIDENCE LIMITS |            |
|--------------------------------------|-----------------|-------------------|--------------|------------------|-------------------------|-----------------------|------------|
|                                      |                 |                   |              |                  |                         | LOWER                 | UPPER      |
| 1                                    | SISKIYOU        | 44,847            | 0            | 0.0 +            | 0.0 +                   | -                     | -          |
| 2                                    | CALAVERAS       | 40,597            | 0            | 0.0 +            | 0.0 +                   | -                     | -          |
| 3                                    | PLUMAS          | 20,714            | 0            | 0.0 +            | 0.0 +                   | -                     | -          |
| 4                                    | INYO            | 18,348            | 0            | 0.0 +            | 0.0 +                   | -                     | -          |
| 5                                    | TRINITY         | 13,353            | 0            | 0.0 +            | 0.0 +                   | -                     | -          |
| 6                                    | MONO            | 10,730            | 0            | 0.0 +            | 0.0 +                   | -                     | -          |
| 7                                    | MODOC           | 10,384            | 0            | 0.0 +            | 0.0 +                   | -                     | -          |
| 8                                    | ALPINE          | 1,226             | 0            | 0.0 +            | 0.0 +                   | -                     | -          |
| 9                                    | SAN LUIS OBISPO | 247,880           | 3            | 1.2 *            | 1.2 *                   | 0.0                   | 2.6        |
| 10                                   | MARIN           | 247,073           | 3            | 1.2 *            | 1.4 *                   | 0.0                   | 3.0        |
| 11                                   | PLACER          | 233,836           | 3            | 1.3 *            | 1.5 *                   | 0.0                   | 3.2        |
| 12                                   | KINGS           | 123,683           | 2            | 1.6 *            | 1.5 *                   | 0.0                   | 3.7        |
| 13                                   | SAN BENITO      | 50,087            | 1            | 2.0 *            | 1.8 *                   | 0.0                   | 5.4        |
| 14                                   | EL DORADO       | 156,996           | 3            | 1.9 *            | 1.9 *                   | 0.0                   | 4.0        |
| 15                                   | TUOLUMNE        | 54,631            | 1            | 1.8 *            | 1.9 *                   | 0.0                   | 5.7        |
| 16                                   | BUTTE           | 204,216           | 4            | 2.0 *            | 2.0 *                   | 0.0                   | 3.9        |
| 17                                   | SONOMA          | 450,187           | 9            | 2.0 *            | 2.1 *                   | 0.7                   | 3.4        |
| 18                                   | IMPERIAL        | 150,381           | 3            | 2.0 *            | 2.1 *                   | 0.0                   | 4.5        |
| 19                                   | TEHAMA          | 55,806            | 1            | 1.8 *            | 2.2 *                   | 0.0                   | 6.4        |
| 20                                   | SANTA CLARA     | 1,732,034         | 39           | 2.3              | 2.2                     | 1.5                   | 2.9        |
| 21                                   | SANTA BARBARA   | 408,292           | 9            | 2.2 *            | 2.2 *                   | 0.8                   | 3.7        |
| 22                                   | SANTA CRUZ      | 255,825           | 6            | 2.3 *            | 2.5 *                   | 0.5                   | 4.4        |
| 23                                   | YOLO            | 160,805           | 5            | 3.1 *            | 2.5 *                   | 0.0                   | 5.1        |
| 24                                   | SUTTER          | 79,992            | 2            | 2.5 *            | 2.7 *                   | 0.0                   | 6.4        |
| 25                                   | SAN MATEO       | 735,381           | 22           | 3.0              | 3.0                     | 1.7                   | 4.3        |
| <b>YEAR 2010 NATIONAL OBJECTIVE:</b> |                 |                   |              |                  | <b>3.0</b>              |                       |            |
| 26                                   | AMADOR          | 34,410            | 1            | 2.9 *            | 3.1 *                   | 0.0                   | 9.2        |
| 27                                   | VENTURA         | 744,825           | 25           | 3.4              | 3.3                     | 2.0                   | 4.7        |
| 28                                   | YUBA            | 63,062            | 2            | 3.2 *            | 3.5 *                   | 0.0                   | 8.5        |
| 29                                   | ORANGE          | 2,787,593         | 96           | 3.4              | 3.5                     | 2.8                   | 4.3        |
| 30                                   | SAN DIEGO       | 2,884,572         | 101          | 3.5              | 3.6                     | 2.9                   | 4.3        |
| 31                                   | NAPA            | 125,123           | 5            | 4.0 *            | 4.1 *                   | 0.5                   | 7.7        |
| 32                                   | FRESNO          | 800,121           | 37           | 4.6              | 4.4                     | 3.0                   | 5.9        |
| 33                                   | SOLANO          | 392,201           | 21           | 5.4              | 5.2                     | 3.0                   | 7.4        |
| 34                                   | STANISLAUS      | 446,056           | 24           | 5.4              | 5.4                     | 3.2                   | 7.5        |
| 35                                   | RIVERSIDE       | 1,519,469         | 81           | 5.3              | 5.5                     | 4.3                   | 6.7        |
| 36                                   | MADERA          | 121,779           | 7            | 5.7 *            | 6.0 *                   | 1.5                   | 10.4       |
| 37                                   | GLENN           | 28,438            | 2            | 7.0 *            | 6.0 *                   | 0.0                   | 14.3       |
| <b>CALIFORNIA</b>                    |                 | <b>34,072,478</b> | <b>2,042</b> | <b>6.0</b>       | <b>6.0</b>              | <b>5.7</b>            | <b>6.3</b> |
| 38                                   | LASSEN          | 35,208            | 2            | 5.7 *            | 6.1 *                   | 0.0                   | 14.5       |
| 39                                   | SACRAMENTO      | 1,189,056         | 76           | 6.4              | 6.3                     | 4.9                   | 7.8        |
| 40                                   | TULARE          | 371,640           | 25           | 6.7              | 6.4                     | 3.9                   | 8.9        |
| 41                                   | SAN FRANCISCO   | 788,975           | 51           | 6.5              | 6.5                     | 4.7                   | 8.4        |
| 42                                   | ALAMEDA         | 1,448,643         | 98           | 6.8              | 6.8                     | 5.4                   | 8.1        |
| 43                                   | LAKE            | 58,335            | 5            | 8.6 *            | 6.8 *                   | 0.5                   | 13.2       |
| 44                                   | CONTRA COSTA    | 921,662           | 61           | 6.6              | 6.9                     | 5.1                   | 8.6        |
| 45                                   | NEVADA          | 94,014            | 6            | 6.4 *            | 6.9 *                   | 1.2                   | 12.6       |
| 46                                   | MERCED          | 210,707           | 15           | 7.1 *            | 7.0 *                   | 3.4                   | 10.5       |
| 47                                   | HUMBOLDT        | 127,658           | 9            | 7.1 *            | 7.0 *                   | 2.4                   | 11.5       |
| 48                                   | SHASTA          | 171,211           | 12           | 7.0 *            | 7.1 *                   | 3.1                   | 11.1       |
| 49                                   | DEL NORTE       | 30,358            | 2            | 6.6 *            | 7.3 *                   | 0.0                   | 17.5       |
| 50                                   | SAN BERNARDINO  | 1,688,984         | 127          | 7.5              | 7.7                     | 6.4                   | 9.1        |
| 51                                   | KERN            | 662,472           | 52           | 7.8              | 7.8                     | 5.6                   | 9.9        |
| 52                                   | MONTEREY        | 395,133           | 31           | 7.8              | 7.9                     | 5.1                   | 10.7       |
| 53                                   | SAN JOAQUIN     | 566,793           | 45           | 7.9              | 7.9                     | 5.6                   | 10.2       |
| 54                                   | MARIPOSA        | 16,339            | 1            | 6.1 *            | 8.4 *                   | 0.0                   | 24.8       |
| 55                                   | MENDOCINO       | 88,978            | 7            | 7.9 *            | 8.6 *                   | 2.2                   | 15.0       |
| 56                                   | COLUSA          | 20,091            | 2            | 10.0 *           | 9.3 *                   | 0.0                   | 22.3       |
| 57                                   | LOS ANGELES     | 9,727,841         | 896          | 9.2              | 9.4                     | 8.8                   | 10.0       |
| 58                                   | SIERRA          | 3,427             | 1            | 29.2 *           | 34.9 *                  | 0.0                   | 103.3      |

## **TABLE 6: DEATHS DUE TO SUICIDE, 1999**

### California Counties Ranked by Age-Adjusted Death Rate

*The crude death rate from suicide for California was 8.9 per 100,000 population, a risk of dying equivalent to approximately one death for every 11,182 persons. This rate was based on the 1999 number of deaths of 3,047 and a population of 34,072,478 as of July 1, 1999. Among counties with "reliable" rates, the crude rate ranged from 22.8 in Shasta County to 7.1 in Monterey County, a difference in rates by a factor of 3.2 to 1.*

*The age-adjusted death rate from suicide for California for 1999 was 9.4 per 100,000 population. Reliable age-adjusted death rates ranged from 22.2 in Shasta County to 7.6 in Monterey County. The difference between the crude rate and the age-adjusted rate shows how the county age composition differs from the 2000 United States population.*

*Altogether 4 counties (none with reliable age-adjusted death rates), but not California as a whole, met the Year 2010 National Objective of 5.0 deaths due to suicide per 100,000 population.*

#### **Notes:**

Death rates are per 100,000 population. The crude death rate is the actual risk of dying. The age-adjusted rate is the hypothetical rate that the State/County would have if its population were distributed by age in the same proportions as the 2000 United States population.

- \* Death rate unreliable, relative standard error is greater than or equal to 23%.
- + Standard error indeterminate, death rate based on no (zero) deaths.
- Upper and lower limits at the 95% confidence level are not calculated for no (zero) deaths.

Counties were rank ordered first by increasing age-adjusted death rate (calculated to 15 decimal places), second by decreasing size of the population. For purposes of this report, rates with a relative standard error of greater than or equal to 23% are considered "unreliable." The upper and lower limits of the age-adjusted death rate at the 95% confidence level indicate the precision of the estimated death rate. The wider the interval, the less precise the death rate. The upper and lower limits define the range within which the death rate probably would occur in 95 out of 100 independent sets of data similar to the present set. (For additional information see the Technical Notes, pages 63 through 72.)

#### **DATA SOURCES**

Department of Health Services: Death Statistical Master Files, 1999.

Department of Finance: 1999 Population Projections with Age, Sex and Race/Ethnic Detail, May 2000.

**TABLE 6  
DEATHS DUE TO SUICIDE  
RANKED BY AGE-ADJUSTED DEATH RATE  
CALIFORNIA COUNTIES, 1999**

| RANK<br>ORDER                        | COUNTY          | 1999<br>POPULATION | 1999<br>DEATHS | CRUDE<br>DEATH RATE | AGE-ADJUSTED<br>DEATH RATE | 95% CONFIDENCE LIMITS |            |
|--------------------------------------|-----------------|--------------------|----------------|---------------------|----------------------------|-----------------------|------------|
|                                      |                 |                    |                |                     |                            | LOWER                 | UPPER      |
| 1                                    | MONO            | 10,730             | 0              | 0.0 +               | 0.0 +                      | -                     | -          |
| 2                                    | SIERRA          | 3,427              | 0              | 0.0 +               | 0.0 +                      | -                     | -          |
| 3                                    | ALPINE          | 1,226              | 0              | 0.0 +               | 0.0 +                      | -                     | -          |
| 4                                    | SAN BENITO      | 50,087             | 1              | 2.0 *               | 2.2 *                      | 0.0                   | 6.6        |
| <b>YEAR 2010 NATIONAL OBJECTIVE:</b> |                 |                    |                |                     | <b>5.0</b>                 |                       |            |
| 5                                    | DEL NORTE       | 30,358             | 2              | 6.6 *               | 7.0 *                      | 0.0                   | 16.7       |
| 6                                    | NAPA            | 125,123            | 9              | 7.2 *               | 7.0 *                      | 2.4                   | 11.6       |
| 7                                    | MONTEREY        | 395,133            | 28             | 7.1                 | 7.6                        | 4.8                   | 10.5       |
| 8                                    | SANTA CLARA     | 1,732,034          | 128            | 7.4                 | 7.7                        | 6.4                   | 9.1        |
| 9                                    | ORANGE          | 2,787,593          | 210            | 7.5                 | 8.0                        | 6.9                   | 9.1        |
| 10                                   | ALAMEDA         | 1,448,643          | 114            | 7.9                 | 8.0                        | 6.6                   | 9.5        |
| 11                                   | LOS ANGELES     | 9,727,841          | 732            | 7.5                 | 8.1                        | 7.5                   | 8.7        |
| 12                                   | PLACER          | 233,836            | 19             | 8.1                 | 8.5 *                      | 4.6                   | 12.3       |
| 13                                   | SAN MATEO       | 735,381            | 64             | 8.7                 | 8.5                        | 6.4                   | 10.5       |
| 14                                   | IMPERIAL        | 150,381            | 12             | 8.0 *               | 8.6 *                      | 3.6                   | 13.6       |
| 15                                   | STANISLAUS      | 446,056            | 36             | 8.1                 | 8.6                        | 5.8                   | 11.5       |
| 16                                   | SUTTER          | 79,992             | 7              | 8.8 *               | 8.7 *                      | 2.2                   | 15.1       |
| 17                                   | VENTURA         | 744,825            | 60             | 8.1                 | 8.9                        | 6.6                   | 11.1       |
| 18                                   | SANTA BARBARA   | 408,292            | 35             | 8.6                 | 8.9                        | 5.9                   | 11.9       |
| 19                                   | FRESNO          | 800,121            | 63             | 7.9                 | 9.0                        | 6.7                   | 11.2       |
| 20                                   | SOLANO          | 392,201            | 33             | 8.4                 | 9.0                        | 5.9                   | 12.2       |
| <b>CALIFORNIA</b>                    |                 | <b>34,072,478</b>  | <b>3,047</b>   | <b>8.9</b>          | <b>9.4</b>                 | <b>9.0</b>            | <b>9.7</b> |
| 21                                   | KINGS           | 123,683            | 10             | 8.1 *               | 9.5 *                      | 3.4                   | 15.7       |
| 22                                   | SAN FRANCISCO   | 788,975            | 83             | 10.5                | 9.6                        | 7.5                   | 11.7       |
| 23                                   | CONTRA COSTA    | 921,662            | 89             | 9.7                 | 9.8                        | 7.7                   | 11.8       |
| 24                                   | SONOMA          | 450,187            | 47             | 10.4                | 10.2                       | 7.3                   | 13.1       |
| 25                                   | SANTA CRUZ      | 255,825            | 27             | 10.6                | 10.2                       | 6.4                   | 14.1       |
| 26                                   | PLUMAS          | 20,714             | 3              | 14.5 *              | 10.3 *                     | 0.0                   | 22.2       |
| 27                                   | SAN JOAQUIN     | 566,793            | 56             | 9.9                 | 10.5                       | 7.7                   | 13.2       |
| 28                                   | KERN            | 662,472            | 62             | 9.4                 | 10.5                       | 7.9                   | 13.1       |
| 29                                   | MARIN           | 247,073            | 28             | 11.3                | 10.5                       | 6.6                   | 14.5       |
| 30                                   | MARIPOSA        | 16,339             | 2              | 12.2 *              | 10.7 *                     | 0.0                   | 26.1       |
| 31                                   | RIVERSIDE       | 1,519,469          | 155            | 10.2                | 10.7                       | 9.0                   | 12.4       |
| 32                                   | SAN DIEGO       | 2,884,572          | 286            | 9.9                 | 10.8                       | 9.5                   | 12.0       |
| 33                                   | SAN BERNARDINO  | 1,688,984          | 163            | 9.7                 | 10.8                       | 9.1                   | 12.5       |
| 34                                   | TULARE          | 371,640            | 37             | 10.0                | 11.2                       | 7.5                   | 14.8       |
| 35                                   | SAN LUIS OBISPO | 247,880            | 28             | 11.3                | 11.3                       | 7.0                   | 15.5       |
| 36                                   | COLUSA          | 20,091             | 2              | 10.0 *              | 11.4 *                     | 0.0                   | 27.2       |
| 37                                   | MADERA          | 121,779            | 13             | 10.7 *              | 11.8 *                     | 5.3                   | 18.2       |
| 38                                   | GLENN           | 28,438             | 3              | 10.5 *              | 12.0 *                     | 0.0                   | 25.5       |
| 39                                   | SACRAMENTO      | 1,189,056          | 138            | 11.6                | 12.0                       | 10.0                  | 14.0       |
| 40                                   | LASSEN          | 35,208             | 5              | 14.2 *              | 13.0 *                     | 1.3                   | 24.6       |
| 41                                   | MERCED          | 210,707            | 25             | 11.9                | 13.2                       | 7.9                   | 18.4       |
| 42                                   | EL DORADO       | 156,996            | 21             | 13.4                | 13.4                       | 7.6                   | 19.2       |
| 43                                   | YOLO            | 160,805            | 20             | 12.4                | 13.7 *                     | 7.5                   | 19.8       |
| 44                                   | NEVADA          | 94,014             | 13             | 13.8 *              | 14.0 *                     | 6.0                   | 22.0       |
| 45                                   | TUOLUMNE        | 54,631             | 9              | 16.5 *              | 14.4 *                     | 4.8                   | 23.9       |
| 46                                   | BUTTE           | 204,216            | 30             | 14.7                | 15.0                       | 9.5                   | 20.4       |
| 47                                   | HUMBOLDT        | 127,658            | 20             | 15.7                | 15.4                       | 8.7                   | 22.2       |
| 48                                   | TEHAMA          | 55,806             | 8              | 14.3 *              | 16.0 *                     | 4.8                   | 27.2       |
| 49                                   | SISKIYOU        | 44,847             | 8              | 17.8 *              | 16.1 *                     | 4.7                   | 27.6       |
| 50                                   | TRINITY         | 13,353             | 3              | 22.5 *              | 17.3 *                     | 0.0                   | 37.0       |
| 51                                   | LAKE            | 58,335             | 11             | 18.9 *              | 18.1 *                     | 6.9                   | 29.3       |
| 52                                   | YUBA            | 63,062             | 10             | 15.9 *              | 19.3 *                     | 7.3                   | 31.3       |
| 53                                   | INYO            | 18,348             | 3              | 16.4 *              | 19.4 *                     | 0.0                   | 41.4       |
| 54                                   | MENDOCINO       | 88,978             | 18             | 20.2 *              | 20.6 *                     | 11.0                  | 30.1       |
| 55                                   | CALAVERAS       | 40,597             | 7              | 17.2 *              | 20.7 *                     | 4.9                   | 36.6       |
| 56                                   | AMADOR          | 34,410             | 8              | 23.2 *              | 21.2 *                     | 6.0                   | 36.4       |
| 57                                   | SHASTA          | 171,211            | 39             | 22.8                | 22.2                       | 15.2                  | 29.2       |
| 58                                   | MODOC           | 10,384             | 4              | 38.5 *              | 33.9 *                     | 0.5                   | 67.3       |

## **TABLE 7: DEATHS DUE TO ALL CANCERS, 1999**

### California Counties Ranked by Age-Adjusted Death Rate

*The crude death rate from all cancers for California was 155.2 per 100,000 population, a risk of dying equivalent to approximately one death for every 644 persons. This rate was based on the 1999 number of deaths of 52,880 and a population of 34,072,478 as of July 1, 1999. Among counties with "reliable" rates, the crude rate ranged from 314.5 in Trinity County to 113.6 in Lassen County, a difference in rates by a factor of 2.8 to 1.*

*The age-adjusted death rate from all cancers for California for 1999 was 179.5 per 100,000 population. Reliable age-adjusted death rates ranged from 242.5 in Trinity County to 130.5 in Lassen County. The difference between crude and age-adjusted rates shows how the county age composition differs from the 2000 United States population.*

*Altogether 7 counties (4 with reliable age-adjusted death rates), but not California as a whole, met the Year 2010 National Objective of 159.9 age-adjusted deaths due to all cancers per 100,000 population.*

#### **Notes:**

Death rates are per 100,000 population. The crude death rate is the actual risk of dying. The age-adjusted rate is the hypothetical rate that the State/County would have if its population were distributed by age in the same proportions as the 2000 United States population.

\* Death rate unreliable, relative standard error is greater than or equal to 23%.

Counties were rank ordered first by increasing age-adjusted death rate (calculated to 15 decimal places), second by decreasing size of the population. For purposes of this report, rates with a relative standard error of greater than or equal to 23% are considered "unreliable." The upper and lower limits of the age-adjusted death rate at the 95% confidence level indicate the precision of the estimated death rate. The wider the interval, the less precise the death rate. The upper and lower limits define the range within which the death rate probably would occur in 95 out of 100 independent sets of data similar to the present set. (For additional information see the Technical Notes, pages 63 through 72.)

#### **DATA SOURCES**

Department of Health Services: Death Statistical Master Files, 1999.

Department of Finance: 1999 Population Projections with Age, Sex and Race/Ethnic Detail, May 2000.

**TABLE 7  
DEATHS DUE TO ALL CANCERS  
RANKED BY AGE-ADJUSTED DEATH RATES  
CALIFORNIA COUNTIES, 1999**

| RANK ORDER                           | COUNTY            | 1999 POPULATION   | 1999 DEATHS   | CRUDE DEATH RATE | AGE-ADJUSTED DEATH RATE | 95% CONFIDENCE LIMITS |              |
|--------------------------------------|-------------------|-------------------|---------------|------------------|-------------------------|-----------------------|--------------|
|                                      |                   |                   |               |                  |                         | LOWER                 | UPPER        |
| 1                                    | ALPINE            | 1,226             | 1             | 81.6 *           | 84.7 *                  | 0.0                   | 250.6        |
| 2                                    | MONO              | 10,730            | 12            | 111.8 *          | 124.0 *                 | 51.4                  | 196.5        |
| 3                                    | LASSEN            | 35,208            | 40            | 113.6            | 130.5                   | 90.0                  | 171.0        |
| 4                                    | MODOC             | 10,384            | 19            | 183.0            | 133.8 *                 | 73.2                  | 194.4        |
| 5                                    | SANTA CRUZ        | 255,825           | 339           | 132.5            | 144.7                   | 129.2                 | 160.2        |
| 6                                    | AMADOR            | 34,410            | 79            | 229.6            | 157.7                   | 122.3                 | 193.0        |
| 7                                    | IMPERIAL          | 150,381           | 184           | 122.4            | 159.9                   | 136.7                 | 183.0        |
| <b>YEAR 2010 NATIONAL OBJECTIVE:</b> |                   |                   |               |                  | <b>159.9</b>            |                       |              |
| 8                                    | MARIPOSA          | 16,339            | 38            | 232.6            | 160.6                   | 108.5                 | 212.7        |
| 9                                    | SANTA BARBARA     | 408,292           | 635           | 155.5            | 161.0                   | 148.5                 | 173.6        |
| 10                                   | SANTA CLARA       | 1,732,034         | 2,219         | 128.1            | 162.2                   | 155.4                 | 169.1        |
| 11                                   | LAKE              | 58,335            | 144           | 246.9            | 162.5                   | 134.9                 | 190.0        |
| 12                                   | DEL NORTE         | 30,358            | 54            | 177.9            | 163.1                   | 119.3                 | 206.9        |
| 13                                   | SUTTER            | 79,992            | 133           | 166.3            | 164.6                   | 136.6                 | 192.6        |
| 14                                   | SAN FRANCISCO     | 788,975           | 1,535         | 194.6            | 166.6                   | 158.2                 | 175.0        |
| 15                                   | SAN LUIS OBISPO   | 247,880           | 462           | 186.4            | 168.6                   | 153.0                 | 184.2        |
| 16                                   | KINGS             | 123,683           | 138           | 111.6            | 169.0                   | 140.5                 | 197.4        |
| 17                                   | SAN BENITO        | 50,087            | 74            | 147.7            | 169.6                   | 130.8                 | 208.3        |
| 18                                   | SAN MATEO         | 735,381           | 1,263         | 171.7            | 169.6                   | 160.2                 | 179.0        |
| 19                                   | COLUSA            | 20,091            | 34            | 169.2            | 170.2                   | 112.8                 | 227.6        |
| 20                                   | MADERA            | 121,779           | 193           | 158.5            | 170.9                   | 146.7                 | 195.0        |
| 21                                   | MARIN             | 247,073           | 440           | 178.1            | 171.5                   | 155.4                 | 187.5        |
| 22                                   | GLENN             | 28,438            | 52            | 182.9            | 174.3                   | 126.7                 | 221.9        |
| 23                                   | LOS ANGELES       | 9,727,841         | 13,457        | 138.3            | 174.3                   | 171.3                 | 177.3        |
| 24                                   | MONTEREY          | 395,133           | 552           | 139.7            | 175.1                   | 160.5                 | 189.7        |
| 25                                   | VENTURA           | 744,825           | 1,106         | 148.5            | 175.4                   | 165.0                 | 185.8        |
| 26                                   | TULARE            | 371,640           | 537           | 144.5            | 175.6                   | 160.7                 | 190.4        |
| 27                                   | CONTRA COSTA      | 921,662           | 1,571         | 170.5            | 176.9                   | 168.1                 | 185.7        |
| 28                                   | NEVADA            | 94,014            | 242           | 257.4            | 178.5                   | 155.7                 | 201.2        |
| 29                                   | RIVERSIDE         | 1,519,469         | 2,720         | 179.0            | 179.1                   | 172.3                 | 185.9        |
|                                      | <b>CALIFORNIA</b> | <b>34,072,478</b> | <b>52,880</b> | <b>155.2</b>     | <b>179.5</b>            | <b>178.0</b>          | <b>181.1</b> |
| 30                                   | NAPA              | 125,123           | 274           | 219.0            | 180.3                   | 158.8                 | 201.9        |
| 31                                   | FRESNO            | 800,121           | 1,191         | 148.9            | 182.7                   | 172.3                 | 193.1        |
| 32                                   | ORANGE            | 2,787,593         | 4,012         | 143.9            | 184.5                   | 178.7                 | 190.2        |
| 33                                   | SAN JOAQUIN       | 566,793           | 937           | 165.3            | 184.8                   | 172.9                 | 196.6        |
| 34                                   | ALAMEDA           | 1,448,643         | 2,326         | 160.6            | 184.9                   | 177.3                 | 192.4        |
| 35                                   | YOLO              | 160,805           | 238           | 148.0            | 185.7                   | 162.1                 | 209.4        |
| 36                                   | KERN              | 662,472           | 1,022         | 154.3            | 186.3                   | 174.9                 | 197.8        |
| 37                                   | SAN DIEGO         | 2,884,572         | 4,592         | 159.2            | 186.8                   | 181.3                 | 192.2        |
| 38                                   | EL DORADO         | 156,996           | 302           | 192.4            | 187.3                   | 166.0                 | 208.6        |
| 39                                   | SAN BERNARDINO    | 1,688,984         | 2,317         | 137.2            | 191.9                   | 184.0                 | 199.7        |
| 40                                   | TUOLUMNE          | 54,631            | 139           | 254.4            | 194.6                   | 161.7                 | 227.5        |
| 41                                   | SONOMA            | 450,187           | 929           | 206.4            | 196.9                   | 184.2                 | 209.6        |
| 42                                   | SOLANO            | 392,201           | 587           | 149.7            | 197.1                   | 180.9                 | 213.3        |
| 43                                   | BUTTE             | 204,216           | 519           | 254.1            | 197.7                   | 180.3                 | 215.1        |
| 44                                   | MERCED            | 210,707           | 313           | 148.5            | 198.4                   | 176.3                 | 220.4        |
| 45                                   | MENDOCINO         | 88,978            | 193           | 216.9            | 200.4                   | 172.1                 | 228.7        |
| 46                                   | SACRAMENTO        | 1,189,056         | 2,106         | 177.1            | 200.5                   | 191.9                 | 209.1        |
| 47                                   | SISKIYOU          | 44,847            | 115           | 256.4            | 201.5                   | 164.1                 | 238.9        |
| 48                                   | STANISLAUS        | 446,056           | 776           | 174.0            | 203.7                   | 189.3                 | 218.0        |
| 49                                   | CALAVERAS         | 40,597            | 120           | 295.6            | 204.1                   | 167.1                 | 241.1        |
| 50                                   | PLUMAS            | 20,714            | 62            | 299.3            | 204.1                   | 152.3                 | 256.0        |
| 51                                   | SHASTA            | 171,211           | 395           | 230.7            | 204.9                   | 184.6                 | 225.2        |
| 52                                   | INYO              | 18,348            | 54            | 294.3            | 206.1                   | 150.4                 | 261.9        |
| 53                                   | SIERRA            | 3,427             | 11            | 321.0 *          | 206.9 *                 | 83.3                  | 330.6        |
| 54                                   | HUMBOLDT          | 127,658           | 266           | 208.4            | 209.8                   | 184.6                 | 235.0        |
| 55                                   | PLACER            | 233,836           | 492           | 210.4            | 213.0                   | 194.2                 | 231.9        |
| 56                                   | TEHAMA            | 55,806            | 156           | 279.5            | 222.4                   | 186.9                 | 257.9        |
| 57                                   | YUBA              | 63,062            | 121           | 191.9            | 236.1                   | 194.0                 | 278.2        |
| 58                                   | TRINITY           | 13,353            | 42            | 314.5            | 242.5                   | 168.5                 | 316.6        |

## **TABLE 8: DEATHS DUE TO LUNG CANCER, 1999**

### California Counties Ranked By Age-Adjusted Death Rate

*The crude death rate from lung cancer for California was 40.4 per 100,000 population, a risk of dying equivalent to approximately one death for every 2,478 persons. This rate was based on the 1999 number of deaths of 13,751 and a population of 34,072,478 as of July 1, 1999. Among counties with "reliable" rates, the crude rate ranged from 123.2 in Calaveras County to 34.8 in Marin County, a difference in rates by a factor of 3.5 to 1.*

*The age-adjusted death rate from lung cancer for California for 1999 was 46.9 per 100,000 population. Reliable age-adjusted death rates ranged from 99.5 in Yuba County to 33.4 in Marin County. The difference between crude and age-adjusted rates shows how the county age composition differs from the 2000 United States population.*

*Altogether 13 counties (10 with reliable age-adjusted death rates), but not California as a whole, met the Year 2010 National Objective of 46.9 deaths due to lung cancer per 100,000 population.*

#### **Notes:**

Death rates are per 100,000 population. The crude death rate is the actual risk of dying. The age-adjusted rate is the hypothetical rate that the State/County would have if its population were distributed by age in the same proportions as the 2000 United States population.

- \* Death rate unreliable, relative standard error is greater than or equal to 23%.
- + Standard error indeterminate, death rate based on no (zero) deaths.
- Upper and lower limits at the 95% confidence level are not calculated for no (zero) deaths.

Counties were rank ordered first by increasing age-adjusted death rate (calculated to 15 decimal places), second by decreasing size of the population. For purposes of this report, rates with a relative standard error of greater than or equal to 23% are considered "unreliable." The upper and lower limits of the age-adjusted death rate at the 95% confidence level indicate the precision of the estimated death rate. The wider the interval, the less precise the death rate. The upper and lower limits define the range within which the death rate probably would occur in 95 out of 100 independent sets of data similar to the present set. (For additional information see the Technical Notes, pages 63 through 72.)

#### **DATA SOURCES**

Department of Health Services: Death Statistical Master Files, 1999.

Department of Finance: 1999 Population Projections with Age, Sex and Race/Ethnic Detail, May 2000.

**TABLE 8  
DEATHS DUE TO LUNG CANCER  
RANKED BY AGE-ADJUSTED DEATH RATES  
CALIFORNIA COUNTIES, 1999**

| RANK ORDER                           | COUNTY            | 1999 POPULATION   | 1999 DEATHS   | CRUDE DEATH RATE | AGE-ADJUSTED DEATH RATE | 95% CONFIDENCE LIMITS |             |
|--------------------------------------|-------------------|-------------------|---------------|------------------|-------------------------|-----------------------|-------------|
|                                      |                   |                   |               |                  |                         | LOWER                 | UPPER       |
| 1                                    | ALPINE            | 1,226             | 0             | 0.0 +            | 0.0 +                   | -                     | -           |
| 2                                    | MONO              | 10,730            | 2             | 18.6 *           | 17.2 *                  | 0.0                   | 41.3        |
| 3                                    | MARIN             | 247,073           | 86            | 34.8             | 33.4                    | 26.3                  | 40.5        |
| 4                                    | SAN BENITO        | 50,087            | 15            | 29.9 *           | 33.7 *                  | 16.6                  | 50.7        |
| 5                                    | SANTA CRUZ        | 255,825           | 81            | 31.7             | 35.6                    | 27.8                  | 43.4        |
| 6                                    | KINGS             | 123,683           | 30            | 24.3             | 37.0                    | 23.7                  | 50.3        |
| 7                                    | SANTA CLARA       | 1,732,034         | 512           | 29.6             | 37.6                    | 34.3                  | 40.9        |
| 8                                    | SAN FRANCISCO     | 788,975           | 374           | 47.4             | 41.1                    | 36.9                  | 45.2        |
| 9                                    | AMADOR            | 34,410            | 21            | 61.0             | 41.3                    | 23.3                  | 59.2        |
| 10                                   | SAN MATEO         | 735,381           | 308           | 41.9             | 41.3                    | 36.7                  | 46.0        |
| 11                                   | LOS ANGELES       | 9,727,841         | 3,243         | 33.3             | 42.5                    | 41.0                  | 43.9        |
| 12                                   | IMPERIAL          | 150,381           | 50            | 33.2             | 43.1                    | 31.2                  | 55.1        |
| 13                                   | SANTA BARBARA     | 408,292           | 174           | 42.6             | 44.5                    | 37.9                  | 51.1        |
| <b>YEAR 2000 NATIONAL OBJECTIVE:</b> |                   |                   |               |                  | <b>44.9</b>             |                       |             |
| 14                                   | SAN LUIS OBISPO   | 247,880           | 125           | 50.4             | 45.5                    | 37.5                  | 53.6        |
| 15                                   | LASSEN            | 35,208            | 14            | 39.8 *           | 46.5 *                  | 22.1                  | 70.8        |
| 16                                   | CONTRA COSTA      | 921,662           | 420           | 45.6             | 46.8                    | 42.3                  | 51.3        |
|                                      | <b>CALIFORNIA</b> | <b>34,072,478</b> | <b>13,751</b> | <b>40.4</b>      | <b>46.9</b>             | <b>46.1</b>           | <b>47.7</b> |
| 17                                   | RIVERSIDE         | 1,519,469         | 714           | 47.0             | 47.1                    | 43.6                  | 50.5        |
| 18                                   | VENTURA           | 744,825           | 295           | 39.6             | 47.1                    | 41.7                  | 52.5        |
| 19                                   | ORANGE            | 2,787,593         | 1,019         | 36.6             | 47.2                    | 44.2                  | 50.1        |
| 20                                   | TULARE            | 371,640           | 144           | 38.7             | 47.4                    | 39.7                  | 55.2        |
| 21                                   | SONOMA            | 450,187           | 223           | 49.5             | 47.9                    | 41.6                  | 54.2        |
| 22                                   | MERCED            | 210,707           | 76            | 36.1             | 47.9                    | 37.1                  | 58.7        |
| 23                                   | SAN DIEGO         | 2,884,572         | 1,182         | 41.0             | 48.0                    | 45.3                  | 50.8        |
| 24                                   | YOLO              | 160,805           | 61            | 37.9             | 48.1                    | 36.0                  | 60.2        |
| 25                                   | HUMBOLDT          | 127,658           | 61            | 47.8             | 48.5                    | 36.3                  | 60.7        |
| 26                                   | MONTEREY          | 395,133           | 153           | 38.7             | 48.8                    | 41.1                  | 56.6        |
| 27                                   | ALAMEDA           | 1,448,643         | 614           | 42.4             | 49.4                    | 45.5                  | 53.3        |
| 28                                   | EL DORADO         | 156,996           | 82            | 52.2             | 49.8                    | 39.0                  | 60.6        |
| 29                                   | FRESNO            | 800,121           | 324           | 40.5             | 50.2                    | 44.8                  | 55.7        |
| 30                                   | GLENN             | 28,438            | 15            | 52.7 *           | 50.3 *                  | 24.8                  | 75.9        |
| 31                                   | SAN BERNARDINO    | 1,688,984         | 617           | 36.5             | 51.6                    | 47.5                  | 55.7        |
| 32                                   | MARIPOSA          | 16,339            | 12            | 73.4 *           | 51.6 *                  | 21.8                  | 81.5        |
| 33                                   | LAKE              | 58,335            | 46            | 78.9             | 52.2                    | 36.6                  | 67.8        |
| 34                                   | SAN JOAQUIN       | 566,793           | 269           | 47.5             | 53.6                    | 47.2                  | 60.0        |
| 35                                   | NAPA              | 125,123           | 81            | 64.7             | 53.8                    | 42.0                  | 65.6        |
| 36                                   | SUTTER            | 79,992            | 44            | 55.0             | 54.3                    | 38.3                  | 70.4        |
| 37                                   | SISKIYOU          | 44,847            | 32            | 71.4             | 54.8                    | 35.7                  | 73.9        |
| 38                                   | SACRAMENTO        | 1,189,056         | 580           | 48.8             | 55.3                    | 50.8                  | 59.8        |
| 39                                   | DEL NORTE         | 30,358            | 19            | 62.6             | 56.1 *                  | 30.8                  | 81.4        |
| 40                                   | KERN              | 662,472           | 306           | 46.2             | 56.3                    | 50.0                  | 62.6        |
| 41                                   | MADERA            | 121,779           | 64            | 52.6             | 56.6                    | 42.7                  | 70.5        |
| 42                                   | SOLANO            | 392,201           | 171           | 43.6             | 57.1                    | 48.4                  | 65.7        |
| 43                                   | TUOLUMNE          | 54,631            | 43            | 78.7             | 58.5                    | 40.7                  | 76.3        |
| 44                                   | MENDOCINO         | 88,978            | 56            | 62.9             | 58.5                    | 43.2                  | 73.9        |
| 45                                   | MODOC             | 10,384            | 8             | 77.0 *           | 58.7 *                  | 17.7                  | 99.8        |
| 46                                   | NEVADA            | 94,014            | 81            | 86.2             | 59.1                    | 46.1                  | 72.1        |
| 47                                   | SHASTA            | 171,211           | 119           | 69.5             | 61.3                    | 50.2                  | 72.3        |
| 48                                   | STANISLAUS        | 446,056           | 236           | 52.9             | 62.4                    | 54.5                  | 70.4        |
| 49                                   | BUTTE             | 204,216           | 163           | 79.8             | 63.6                    | 53.6                  | 73.6        |
| 50                                   | INYO              | 18,348            | 18            | 98.1 *           | 66.4 *                  | 35.5                  | 97.4        |
| 51                                   | PLACER            | 233,836           | 160           | 68.4             | 68.6                    | 57.9                  | 79.2        |
| 52                                   | PLUMAS            | 20,714            | 22            | 106.2            | 70.9                    | 40.6                  | 101.2       |
| 53                                   | TEHAMA            | 55,806            | 51            | 91.4             | 71.1                    | 51.3                  | 90.8        |
| 54                                   | COLUSA            | 20,091            | 15            | 74.7 *           | 75.4 *                  | 37.2                  | 113.6       |
| 55                                   | SIERRA            | 3,427             | 4             | 116.7 *          | 78.1 *                  | 0.5                   | 155.8       |
| 56                                   | CALAVERAS         | 40,597            | 50            | 123.2            | 85.4                    | 61.4                  | 109.5       |
| 57                                   | TRINITY           | 13,353            | 15            | 112.3 *          | 92.0 *                  | 45.1                  | 138.9       |
| 58                                   | YUBA              | 63,062            | 51            | 80.9             | 99.5                    | 72.2                  | 126.8       |

## **TABLE 9: DEATHS DUE TO FEMALE BREAST CANCER, 1999**

### California Counties Ranked By Age-Adjusted Death Rate

*The crude death rate from female breast cancer for California was 24.0 per 100,000 population, a risk of dying equivalent to approximately one death for every 4,175 females. This rate was based on the 1999 deaths of 4,065 and a female population of 16,972,666 as of July 1, 1999. Among counties with "reliable" rates, the crude rate ranged from 42.8 in Marin County to 15.6 in Fresno County, a difference in rates by a factor of 2.7 to 1.*

*The age-adjusted death rate from female breast cancer for California for 1999 was 24.6 per 100,000 population. Reliable age-adjusted death rates ranged from 39.6 in Yolo County to 17.2 in San Francisco County. The difference between crude and age-adjusted rates shows how the county age composition differs from the 2000 United States population.*

*Altogether 20 counties (7 with reliable age-adjusted death rates), but not California as a whole, met the Year 2010 National Objective of 22.3 deaths due to female breast cancer per 100,000 population.*

#### **Notes:**

Death rates are per 100,000 female population. The crude death rate is the actual risk of dying. The age-adjusted rate is the hypothetical rate that the State/County would have if its population were distributed by age in the same proportions as the 2000 United States population.

- \* Death rate unreliable, relative standard error is greater than or equal to 23%.
- + Standard error indeterminate, death rate based on no (zero) deaths.
- Upper and lower limits at the 95% confidence level are not calculated for no (zero) deaths.

Counties were rank ordered first by increasing age-adjusted death rate (calculated to 15 decimal places), second by decreasing size of the population. For purposes of this report, rates with a relative standard error of greater than or equal to 23% are considered "unreliable." The upper and lower limits of the age-adjusted death rate at the 95% confidence level indicate the precision of the estimated death rate. The wider the interval, the less precise the death rate. The upper and lower limits define the range within which the death rate probably would occur in 95 out of 100 independent sets of data similar to the present set. (For additional information see the Technical Notes, pages 63 through 72.)

#### **DATA SOURCES**

Department of Health Services: Death Statistical Master Files, 1999.

Department of Finance: 1999 Population Projections with Age, Sex and Race/Ethnic Detail, May 2000.

**TABLE 9  
DEATHS DUE TO FEMALE BREAST CANCER  
RANKED BY AGE-ADJUSTED DEATH RATES  
CALIFORNIA COUNTIES, 1999**

| RANK ORDER                           | COUNTY          | 1999 FEMALE POPULATION | 1999 DEATHS  | CRUDE DEATH RATE | AGE-ADJUSTED DEATH RATE | 95% CONFIDENCE LIMITS |             |
|--------------------------------------|-----------------|------------------------|--------------|------------------|-------------------------|-----------------------|-------------|
|                                      |                 |                        |              |                  |                         | LOWER                 | UPPER       |
| 1                                    | ALPINE          | 587                    | 0            | 0.0 +            | 0.0 +                   | -                     | -           |
| 2                                    | COLUSA          | 9,761                  | 1            | 10.2 *           | 9.5 *                   | 0.0                   | 28.2        |
| 3                                    | MADERA          | 62,883                 | 7            | 11.1 *           | 11.2 *                  | 2.9                   | 19.5        |
| 4                                    | LAKE            | 29,812                 | 7            | 23.5 *           | 15.1 *                  | 3.3                   | 26.9        |
| 5                                    | NAPA            | 63,003                 | 13           | 20.6 *           | 17.0 *                  | 7.6                   | 26.4        |
| 6                                    | SAN FRANCISCO   | 397,637                | 88           | 22.1             | 17.2                    | 13.5                  | 20.9        |
| 7                                    | FRESNO          | 402,902                | 63           | 15.6             | 17.3                    | 13.0                  | 21.6        |
| 8                                    | DEL NORTE       | 13,952                 | 3            | 21.5 *           | 17.8 *                  | 0.0                   | 38.5        |
| 9                                    | NEVADA          | 47,707                 | 14           | 29.3 *           | 17.8 *                  | 8.4                   | 27.2        |
| 10                                   | CALAVERAS       | 20,559                 | 6            | 29.2 *           | 17.9 *                  | 3.6                   | 32.2        |
| 11                                   | SUTTER          | 40,320                 | 8            | 19.8 *           | 18.0 *                  | 5.4                   | 30.5        |
| 12                                   | LASSEN          | 13,706                 | 3            | 21.9 *           | 18.2 *                  | 0.0                   | 38.8        |
| 13                                   | SANTA BARBARA   | 201,483                | 39           | 19.4             | 18.2                    | 12.4                  | 24.0        |
| 14                                   | MONTEREY        | 187,719                | 36           | 19.2             | 20.6                    | 13.8                  | 27.3        |
| 15                                   | AMADOR          | 15,908                 | 5            | 31.4 *           | 20.8 *                  | 2.1                   | 39.6        |
| 16                                   | EL DORADO       | 78,573                 | 18           | 22.9 *           | 21.0 *                  | 11.3                  | 30.7        |
| 17                                   | SISKIYOU        | 22,859                 | 6            | 26.2 *           | 21.2 *                  | 3.7                   | 38.7        |
| 18                                   | SANTA CRUZ      | 128,048                | 29           | 22.6             | 21.5                    | 13.5                  | 29.4        |
| 19                                   | RIVERSIDE       | 760,600                | 176          | 23.1             | 21.9                    | 18.6                  | 25.2        |
| 20                                   | CONTRA COSTA    | 466,755                | 112          | 24.0             | 22.2                    | 18.1                  | 26.3        |
| <b>YEAR 2010 NATIONAL OBJECTIVE:</b> |                 |                        |              |                  | <b>22.3</b>             |                       |             |
| 21                                   | KINGS           | 56,363                 | 10           | 17.7 *           | 23.0 *                  | 8.7                   | 37.2        |
| 22                                   | SANTA CLARA     | 851,134                | 187          | 22.0             | 23.6                    | 20.2                  | 27.0        |
| 23                                   | BUTTE           | 104,517                | 32           | 30.6             | 23.7                    | 15.2                  | 32.3        |
| 24                                   | ORANGE          | 1,378,230              | 304          | 22.1             | 24.0                    | 21.3                  | 26.8        |
| 25                                   | SAN MATEO       | 371,265                | 103          | 27.7             | 24.5                    | 19.8                  | 29.2        |
| 26                                   | KERN            | 324,854                | 72           | 22.2             | 24.6                    | 18.9                  | 30.4        |
| <b>CALIFORNIA</b>                    |                 | <b>16,972,666</b>      | <b>4,065</b> | <b>24.0</b>      | <b>24.6</b>             | <b>23.9</b>           | <b>25.4</b> |
| 27                                   | LOS ANGELES     | 4,859,767              | 1,101        | 22.7             | 24.7                    | 23.2                  | 26.1        |
| 28                                   | MODOC           | 5,085                  | 2            | 39.3 *           | 24.7 *                  | 0.0                   | 59.0        |
| 29                                   | YUBA            | 31,571                 | 7            | 22.2 *           | 25.0 *                  | 6.4                   | 43.5        |
| 30                                   | ALAMEDA         | 730,696                | 184          | 25.2             | 25.0                    | 21.4                  | 28.6        |
| 31                                   | SAN LUIS OBISPO | 120,632                | 37           | 30.7             | 25.4                    | 16.9                  | 33.9        |
| 32                                   | SAN DIEGO       | 1,415,670              | 347          | 24.5             | 26.0                    | 23.2                  | 28.8        |
| 33                                   | TULARE          | 186,146                | 44           | 23.6             | 26.0                    | 18.3                  | 33.7        |
| 34                                   | VENTURA         | 368,257                | 93           | 25.3             | 26.1                    | 20.8                  | 31.4        |
| 35                                   | TEHAMA          | 28,447                 | 9            | 31.6 *           | 26.3 *                  | 8.9                   | 43.7        |
| 36                                   | PLACER          | 117,759                | 34           | 28.9             | 26.6                    | 17.7                  | 35.6        |
| 37                                   | STANISLAUS      | 226,081                | 58           | 25.7             | 27.3                    | 20.2                  | 34.3        |
| 38                                   | SAN BERNARDINO  | 841,879                | 189          | 22.4             | 27.3                    | 23.4                  | 31.2        |
| 39                                   | SONOMA          | 228,547                | 73           | 31.9             | 27.5                    | 21.1                  | 33.9        |
| 40                                   | IMPERIAL        | 73,015                 | 17           | 23.3 *           | 27.7 *                  | 14.5                  | 40.9        |
| 41                                   | INYO            | 9,362                  | 4            | 42.7 *           | 28.0 *                  | 0.0                   | 56.0        |
| 42                                   | TUOLUMNE        | 25,980                 | 10           | 38.5 *           | 28.3 *                  | 10.3                  | 46.2        |
| 43                                   | MENDOCINO       | 44,521                 | 15           | 33.7 *           | 28.5 *                  | 14.1                  | 42.9        |
| 44                                   | SACRAMENTO      | 604,885                | 174          | 28.8             | 29.2                    | 24.9                  | 33.6        |
| 45                                   | SOLANO          | 191,963                | 50           | 26.0             | 29.7                    | 21.4                  | 38.0        |
| 46                                   | MERCED          | 104,372                | 26           | 24.9             | 29.9                    | 18.4                  | 41.4        |
| 47                                   | SAN JOAQUIN     | 279,628                | 79           | 28.3             | 29.9                    | 23.3                  | 36.6        |
| 48                                   | PLUMAS          | 10,402                 | 5            | 48.1 *           | 31.2 *                  | 3.4                   | 59.0        |
| 49                                   | HUMBOLDT        | 64,396                 | 24           | 37.3             | 32.6                    | 19.5                  | 45.7        |
| 50                                   | SHASTA          | 87,195                 | 35           | 40.1             | 33.0                    | 22.0                  | 44.0        |
| 51                                   | GLENN           | 14,135                 | 5            | 35.4 *           | 34.6 *                  | 3.9                   | 65.4        |
| 52                                   | MARIPOSA        | 8,149                  | 4            | 49.1 *           | 35.9 *                  | 0.0                   | 71.9        |
| 53                                   | MARIN           | 123,951                | 53           | 42.8             | 37.7                    | 27.5                  | 47.9        |
| 54                                   | MONO            | 4,962                  | 2            | 40.3 *           | 38.1 *                  | 0.0                   | 91.6        |
| 55                                   | YOLO            | 80,961                 | 27           | 33.3             | 39.6                    | 24.6                  | 54.7        |
| 56                                   | SIERRA          | 1,722                  | 1            | 58.1 *           | 42.6 *                  | 0.0                   | 126.1       |
| 57                                   | SAN BENITO      | 24,778                 | 10           | 40.4 *           | 42.9 *                  | 16.3                  | 69.6        |
| 58                                   | TRINITY         | 6,615                  | 4            | 60.5 *           | 43.0 *                  | 0.5                   | 85.4        |

## **TABLE 10: DEATHS DUE TO CORONARY HEART DISEASE, 1999**

### California Counties Ranked By Age-Adjusted Death Rate

*The crude death rate from coronary heart disease for California was 171.6 per 100,000 population, a risk of dying equivalent to approximately one death for every 583 persons. This rate was based on the number of deaths of 58,476 in 1999 and a population of 34,072,478 as of July 1, 1999. Among counties with "reliable" rates, the crude rate ranged from 299.8 in Inyo County to 91.8 in San Benito County, a difference in rates by a factor of 3.3 to 1.*

*The age-adjusted death rate from coronary heart disease for California for 1999 was 204.0 per 100,000 population. Reliable age-adjusted death rates ranged from 266.3 in San Bernardino County to 105.8 in Del Norte County. The difference between crude and age-adjusted rates shows how the county age composition differs from the 2000 United States population.*

*Altogether 26 counties (22 with reliable age-adjusted death rates), but not California as a whole, met the Year 2010 National Objective of 166.0 deaths due to coronary heart disease per 100,000 population.*

#### **Notes:**

Death rates are per 100,000 population. The crude death rate is the actual risk of dying. The age-adjusted rate is the hypothetical rate that the State/County would have if its population were distributed by age in the same proportions as the 2000 United States population.

\* Death rate unreliable, relative standard error is greater than or equal to 23%.

Counties were rank ordered first by increasing age-adjusted death rate (calculated to 15 decimal places), second by decreasing size of the population. For purposes of this report, rates with a relative standard error of greater than or equal to 23% are considered "unreliable." The upper and lower limits of the age-adjusted death rate at the 95% confidence level indicate the precision of the estimated death rate. The wider the interval, the less precise the death rate. The upper and lower limits define the range within which the death rate probably would occur in 95 out of 100 independent sets of data similar to the present set. (For additional information see the Technical Notes, pages 63 through 72.)

#### **DATA SOURCES**

Department of Health Services: Death Statistical Master Files, 1999.

Department of Finance: 1999 Population Projections with Age, Sex and Race/Ethnic Detail, May 2000.

**TABLE 10  
DEATHS DUE TO CORONARY HEART DISEASE  
RANKED BY AGE-ADJUSTED DEATH RATES  
CALIFORNIA COUNTIES, 1999**

| RANK ORDER                           | COUNTY          | 1999 POPULATION   | 1999 DEATHS   | CRUDE DEATH RATE | AGE-ADJUSTED DEATH RATE | 95% CONFIDENCE LIMITS |              |
|--------------------------------------|-----------------|-------------------|---------------|------------------|-------------------------|-----------------------|--------------|
|                                      |                 |                   |               |                  |                         | LOWER                 | UPPER        |
| 1                                    | SIERRA          | 3,427             | 5             | 145.9 *          | 76.7 *                  | 9.1                   | 144.3        |
| 2                                    | MONO            | 10,730            | 7             | 65.2 *           | 91.2 *                  | 21.6                  | 160.8        |
| 3                                    | ALPINE          | 1,226             | 1             | 81.6 *           | 91.8 *                  | 0.0                   | 271.8        |
| 4                                    | DEL NORTE       | 30,358            | 35            | 115.3            | 105.8                   | 70.5                  | 141.1        |
| 5                                    | MODOC           | 10,384            | 15            | 144.5 *          | 107.3 *                 | 52.5                  | 162.0        |
| 6                                    | SAN BENITO      | 50,087            | 46            | 91.8             | 107.9                   | 76.6                  | 139.1        |
| 7                                    | SISKIYOU        | 44,847            | 73            | 162.8            | 125.4                   | 96.4                  | 154.4        |
| 8                                    | NEVADA          | 94,014            | 185           | 196.8            | 134.3                   | 114.8                 | 153.8        |
| 9                                    | TUOLUMNE        | 54,631            | 103           | 188.5            | 139.4                   | 112.1                 | 166.6        |
| 10                                   | PLUMAS          | 20,714            | 42            | 202.8            | 139.8                   | 97.0                  | 182.5        |
| 11                                   | TRINITY         | 13,353            | 23            | 172.2            | 143.7                   | 83.8                  | 203.6        |
| 12                                   | MARIN           | 247,073           | 366           | 148.1            | 146.7                   | 131.6                 | 161.8        |
| 13                                   | NAPA            | 125,123           | 245           | 195.8            | 147.0                   | 128.4                 | 165.6        |
| 14                                   | BUTTE           | 204,216           | 424           | 207.6            | 147.1                   | 132.8                 | 161.4        |
| 15                                   | SAN MATEO       | 735,381           | 1,094         | 148.8            | 149.6                   | 140.7                 | 158.4        |
| 16                                   | MENDOCINO       | 88,978            | 146           | 164.1            | 151.7                   | 127.1                 | 176.4        |
| 17                                   | AMADOR          | 34,410            | 79            | 229.6            | 152.7                   | 118.8                 | 186.6        |
| 18                                   | YOLO            | 160,805           | 197           | 122.5            | 154.5                   | 132.9                 | 176.2        |
| 19                                   | LASSEN          | 35,208            | 47            | 133.5            | 154.7                   | 110.4                 | 198.9        |
| 20                                   | SANTA CRUZ      | 255,825           | 384           | 150.1            | 160.1                   | 144.0                 | 176.2        |
| 21                                   | MONTEREY        | 395,133           | 495           | 125.3            | 161.1                   | 146.9                 | 175.4        |
| 22                                   | CONTRA COSTA    | 921,662           | 1,367         | 148.3            | 161.5                   | 152.9                 | 170.1        |
| 23                                   | SANTA BARBARA   | 408,292           | 663           | 162.4            | 162.4                   | 150.0                 | 174.7        |
| 24                                   | CALAVERAS       | 40,597            | 91            | 224.2            | 162.4                   | 128.4                 | 196.3        |
| 25                                   | SAN FRANCISCO   | 788,975           | 1,592         | 201.8            | 164.1                   | 156.0                 | 172.2        |
| 26                                   | HUMBOLDT        | 127,658           | 211           | 165.3            | 165.5                   | 143.1                 | 187.8        |
| <b>YEAR 2010 NATIONAL OBJECTIVE:</b> |                 |                   |               |                  | <b>166.0</b>            |                       |              |
| 27                                   | LAKE            | 58,335            | 158           | 270.8            | 168.1                   | 141.0                 | 195.2        |
| 28                                   | GLENN           | 28,438            | 52            | 182.9            | 171.9                   | 124.9                 | 218.8        |
| 29                                   | SOLANO          | 392,201           | 470           | 119.8            | 173.9                   | 157.9                 | 189.9        |
| 30                                   | SONOMA          | 450,187           | 861           | 191.3            | 175.1                   | 163.4                 | 186.8        |
| 31                                   | MARIPOSA        | 16,339            | 44            | 269.3            | 175.9                   | 123.5                 | 228.4        |
| 32                                   | SANTA CLARA     | 1,732,034         | 2,116         | 122.2            | 175.9                   | 168.3                 | 183.5        |
| 33                                   | SHASTA          | 171,211           | 335           | 195.7            | 176.2                   | 157.3                 | 195.1        |
| 34                                   | VENTURA         | 744,825           | 1,047         | 140.6            | 176.5                   | 165.8                 | 187.3        |
| 35                                   | EL DORADO       | 156,996           | 266           | 169.4            | 176.7                   | 155.2                 | 198.1        |
| 36                                   | SAN LUIS OBISPO | 247,880           | 514           | 207.4            | 178.1                   | 162.6                 | 193.6        |
| 37                                   | IMPERIAL        | 150,381           | 209           | 139.0            | 183.6                   | 158.7                 | 208.6        |
| 38                                   | PLACER          | 233,836           | 404           | 172.8            | 183.8                   | 165.9                 | 201.8        |
| 39                                   | TEHAMA          | 55,806            | 135           | 241.9            | 184.7                   | 153.2                 | 216.3        |
| 40                                   | TULARE          | 371,640           | 574           | 154.5            | 185.7                   | 170.5                 | 200.9        |
| 41                                   | KINGS           | 123,683           | 146           | 118.0            | 186.7                   | 156.3                 | 217.2        |
| 42                                   | MERCED          | 210,707           | 283           | 134.3            | 187.1                   | 165.2                 | 208.9        |
| 43                                   | COLUSA          | 20,091            | 38            | 189.1            | 188.1                   | 128.1                 | 248.1        |
| 44                                   | ALAMEDA         | 1,448,643         | 2,301         | 158.8            | 188.2                   | 180.5                 | 195.9        |
| 45                                   | SAN DIEGO       | 2,884,572         | 4,676         | 162.1            | 189.8                   | 184.3                 | 195.2        |
| 46                                   | MADERA          | 121,779           | 213           | 174.9            | 190.1                   | 164.5                 | 215.6        |
| 47                                   | INYO            | 18,348            | 55            | 299.8            | 191.2                   | 140.3                 | 242.1        |
| 48                                   | FRESNO          | 800,121           | 1,301         | 162.6            | 200.0                   | 189.1                 | 210.9        |
| <b>CALIFORNIA</b>                    |                 | <b>34,072,478</b> | <b>58,476</b> | <b>171.6</b>     | <b>204.0</b>            | <b>202.3</b>          | <b>205.6</b> |
| 49                                   | SUTTER          | 79,992            | 171           | 213.8            | 207.5                   | 176.3                 | 238.6        |
| 50                                   | SAN JOAQUIN     | 566,793           | 1,111         | 196.0            | 215.0                   | 202.3                 | 227.7        |
| 51                                   | SACRAMENTO      | 1,189,056         | 2,181         | 183.4            | 218.5                   | 209.3                 | 227.7        |
| 52                                   | RIVERSIDE       | 1,519,469         | 3,553         | 233.8            | 228.6                   | 221.1                 | 236.2        |
| 53                                   | STANISLAUS      | 446,056           | 862           | 193.2            | 228.8                   | 213.5                 | 244.1        |
| 54                                   | ORANGE          | 2,787,593         | 4,614         | 165.5            | 232.5                   | 225.7                 | 239.2        |
| 55                                   | LOS ANGELES     | 9,727,841         | 17,394        | 178.8            | 235.0                   | 231.5                 | 238.5        |
| 56                                   | YUBA            | 63,062            | 122           | 193.5            | 240.7                   | 197.9                 | 283.5        |
| 57                                   | KERN            | 662,472           | 1,334         | 201.4            | 247.3                   | 234.0                 | 260.5        |
| 58                                   | SAN BERNARDINO  | 1,688,984         | 3,000         | 177.6            | 266.3                   | 256.7                 | 275.9        |

## **TABLE 11: DEATHS DUE TO CEREBROVASCULAR DISEASE (STROKE), 1999**

### California Counties Ranked by Average Age-Adjusted Death Rate

*The crude death rate from cerebrovascular disease for California was 53.1 per 100,000 population, a risk of dying equivalent to approximately one death for every 1,885 persons. This rate was based on the number of deaths of 18,079 in 1999 and a population of 34,072,478 as of July 1, 1999. Among counties with "reliable" rates, the crude rate ranged from 107.1 in Napa County to 37.2 in Imperial County, a difference in rates by a factor of 2.9 to 1.*

*The age-adjusted death rate from cerebrovascular disease for California for 1999 was 63.3 per 100,000 population. Reliable age-adjusted death rates ranged from 97.1 in Yuba County to 47.3 in San Benito County. The difference between crude and age-adjusted rates shows how the county age composition differs from the 2000 United States population.*

*Altogether 6 counties (1 with a reliable age-adjusted death rate), but not California as a whole, met the Year 2010 National Objective of 48.0 deaths due to cerebrovascular disease per 100,000 population.*

#### **Notes:**

Death rates are per 100,000 population. The crude death rate is the actual risk of dying. The age-adjusted rate is the hypothetical rate that the State/County would have if its population were distributed by age in the same proportions as the 2000 United States population.

\* Death rate unreliable, relative standard error is greater than or equal to 23%.

Counties were rank ordered first by increasing age-adjusted death rate (calculated to 15 decimal places), second by decreasing size of the population. For purposes of this report, rates with a relative standard error of greater than or equal to 23% are considered "unreliable." The upper and lower limits of the age-adjusted death rate at the 95% confidence level indicate the precision of the estimated death rate. The wider the interval, the less precise the death rate. The upper and lower limits define the range within which the death rate probably would occur in 95 out of 100 independent sets of data similar to the present set. (For additional information see the Technical Notes, pages 63 through 72.)

#### **DATA SOURCES**

Department of Health Services: Death Statistical Master Files, 1999.

Department of Finance: 1999 Population Projections with Age, Sex and Race/Ethnic Detail, May 2000.

**TABLE 11  
DEATHS DUE TO CEREBROVASCULAR DISEASE  
CRUDE AND AGE-ADJUSTED DEATH RATES  
CALIFORNIA COUNTIES, 1999**

| RANK<br>ORDER                        | COUNTY            | 1999<br>POPULATION | 1999<br>DEATHS | CRUDE<br>DEATH RATE | AGE-ADJUSTED<br>DEATH RATE | 95% CONFIDENCE LIMITS |             |
|--------------------------------------|-------------------|--------------------|----------------|---------------------|----------------------------|-----------------------|-------------|
|                                      |                   |                    |                |                     |                            | LOWER                 | UPPER       |
| 1                                    | MONO              | 10,730             | 2              | 18.6 *              | 26.7 *                     | 0.0                   | 64.6        |
| 2                                    | COLUSA            | 20,091             | 6              | 29.9 *              | 29.3 *                     | 5.8                   | 52.8        |
| 3                                    | PLUMAS            | 20,714             | 10             | 48.3 *              | 32.4 *                     | 12.1                  | 52.6        |
| 4                                    | INYO              | 18,348             | 11             | 60.0 *              | 36.1 *                     | 14.7                  | 57.4        |
| 5                                    | LASSEN            | 35,208             | 11             | 31.2 *              | 36.1 *                     | 14.8                  | 57.5        |
| 6                                    | SAN BENITO        | 50,087             | 20             | 39.9                | 47.3                       | 26.5                  | 68.1        |
| <b>YEAR 2010 NATIONAL OBJECTIVE:</b> |                   |                    |                |                     | <b>48.0</b>                |                       |             |
| 7                                    | TUOLUMNE          | 54,631             | 37             | 67.7                | 48.3                       | 32.6                  | 64.0        |
| 8                                    | MADERA            | 121,779            | 54             | 44.3                | 48.4                       | 35.5                  | 61.3        |
| 9                                    | SIERRA            | 3,427              | 3              | 87.5 *              | 48.7 *                     | 0.0                   | 104.1       |
| 10                                   | IMPERIAL          | 150,381            | 56             | 37.2                | 49.2                       | 36.3                  | 62.1        |
| 11                                   | SANTA CRUZ        | 255,825            | 119            | 46.5                | 49.7                       | 40.7                  | 58.7        |
| 12                                   | MARIPOSA          | 16,339             | 13             | 79.6 *              | 50.0 *                     | 22.7                  | 77.4        |
| 13                                   | CALAVERAS         | 40,597             | 28             | 69.0                | 50.3                       | 31.2                  | 69.4        |
| 14                                   | EL DORADO         | 156,996            | 76             | 48.4                | 51.1                       | 39.5                  | 62.7        |
| 15                                   | DEL NORTE         | 30,358             | 18             | 59.3 *              | 52.0 *                     | 27.9                  | 76.1        |
| 16                                   | TRINITY           | 13,353             | 8              | 59.9 *              | 53.9 *                     | 16.2                  | 91.6        |
| 17                                   | RIVERSIDE         | 1,519,469          | 850            | 55.9                | 54.3                       | 50.7                  | 58.0        |
| 18                                   | SHASTA            | 171,211            | 104            | 60.7                | 54.6                       | 44.1                  | 65.1        |
| 19                                   | KERN              | 662,472            | 300            | 45.3                | 55.6                       | 49.3                  | 61.9        |
| 20                                   | TULARE            | 371,640            | 180            | 48.4                | 57.6                       | 49.2                  | 66.1        |
| 21                                   | SISKIYOU          | 44,847             | 35             | 78.0                | 58.3                       | 38.9                  | 77.7        |
| 22                                   | SAN LUIS OBISPO   | 247,880            | 175            | 70.6                | 58.5                       | 49.8                  | 67.2        |
| 23                                   | LAKE              | 58,335             | 60             | 102.9               | 58.9                       | 43.9                  | 73.9        |
| 24                                   | MENDOCINO         | 88,978             | 57             | 64.1                | 59.6                       | 44.1                  | 75.1        |
| 25                                   | BUTTE             | 204,216            | 179            | 87.7                | 59.7                       | 50.8                  | 68.6        |
| 26                                   | LOS ANGELES       | 9,727,841          | 4,435          | 45.6                | 59.9                       | 58.1                  | 61.7        |
| 27                                   | SAN DIEGO         | 2,884,572          | 1,507          | 52.2                | 60.9                       | 57.8                  | 64.0        |
| 28                                   | SAN FRANCISCO     | 788,975            | 603            | 76.4                | 61.1                       | 56.2                  | 66.0        |
|                                      | <b>CALIFORNIA</b> | <b>34,072,478</b>  | <b>18,079</b>  | <b>53.1</b>         | <b>63.3</b>                | <b>62.3</b>           | <b>64.2</b> |
| 29                                   | SANTA CLARA       | 1,732,034          | 751            | 43.4                | 63.4                       | 58.8                  | 68.0        |
| 30                                   | NEVADA            | 94,014             | 86             | 91.5                | 63.4                       | 49.9                  | 76.9        |
| 31                                   | FRESNO            | 800,121            | 415            | 51.9                | 63.6                       | 57.5                  | 69.8        |
| 32                                   | VENTURA           | 744,825            | 377            | 50.6                | 64.1                       | 57.6                  | 70.6        |
| 33                                   | SAN BERNARDINO    | 1,688,984          | 726            | 43.0                | 64.2                       | 59.5                  | 68.9        |
| 34                                   | SANTA BARBARA     | 408,292            | 270            | 66.1                | 64.8                       | 57.1                  | 72.6        |
| 35                                   | AMADOR            | 34,410             | 34             | 98.8                | 66.1                       | 43.8                  | 88.5        |
| 36                                   | KINGS             | 123,683            | 52             | 42.0                | 67.2                       | 48.9                  | 85.5        |
| 37                                   | MONTEREY          | 395,133            | 206            | 52.1                | 67.4                       | 58.2                  | 76.6        |
| 38                                   | STANISLAUS        | 446,056            | 255            | 57.2                | 67.4                       | 59.1                  | 75.7        |
| 39                                   | SONOMA            | 450,187            | 333            | 74.0                | 67.7                       | 60.4                  | 74.9        |
| 40                                   | ORANGE            | 2,787,593          | 1,340          | 48.1                | 67.7                       | 64.1                  | 71.4        |
| 41                                   | SAN MATEO         | 735,381            | 495            | 67.3                | 68.1                       | 62.1                  | 74.1        |
| 42                                   | TEHAMA            | 55,806             | 50             | 89.6                | 68.2                       | 49.1                  | 87.3        |
| 43                                   | HUMBOLDT          | 127,658            | 88             | 68.9                | 68.9                       | 54.5                  | 83.3        |
| 44                                   | ALAMEDA           | 1,448,643          | 846            | 58.4                | 69.7                       | 65.0                  | 74.4        |
| 45                                   | SUTTER            | 79,992             | 59             | 73.8                | 71.2                       | 53.0                  | 89.4        |
| 46                                   | PLACER            | 233,836            | 159            | 68.0                | 72.5                       | 61.2                  | 83.8        |
| 47                                   | SACRAMENTO        | 1,189,056          | 723            | 60.8                | 73.0                       | 67.7                  | 78.4        |
| 48                                   | MERCED            | 210,707            | 110            | 52.2                | 73.1                       | 59.4                  | 86.8        |
| 49                                   | YOLO              | 160,805            | 93             | 57.8                | 73.4                       | 58.5                  | 88.3        |
| 50                                   | CONTRA COSTA      | 921,662            | 622            | 67.5                | 74.7                       | 68.8                  | 80.5        |
| 51                                   | SAN JOAQUIN       | 566,793            | 401            | 70.7                | 77.0                       | 69.5                  | 84.5        |
| 52                                   | MARIN             | 247,073            | 191            | 77.3                | 77.4                       | 66.4                  | 88.5        |
| 53                                   | GLENN             | 28,438             | 24             | 84.4                | 77.6                       | 46.4                  | 108.8       |
| 54                                   | NAPA              | 125,123            | 134            | 107.1               | 78.1                       | 64.8                  | 91.4        |
| 55                                   | MODOC             | 10,384             | 12             | 115.6 *             | 80.2 *                     | 34.8                  | 125.5       |
| 56                                   | SOLANO            | 392,201            | 220            | 56.1                | 85.8                       | 74.3                  | 97.3        |
| 57                                   | YUBA              | 63,062             | 49             | 77.7                | 97.1                       | 69.9                  | 124.4       |
| 58                                   | ALPINE            | 1,226              | 1              | 81.6 *              | 99.6 *                     | 0.0                   | 295.0       |

## **TABLE 12: DRUG-RELATED DEATHS, 1999**

### California Counties Ranked By Age-Adjusted Death Rate

*The crude death rate from drug-related deaths for California was 9.0 per 100,000 population, a risk of dying equivalent to approximately one death for every 11,168 persons. This rate was based on the number of deaths of 3,051 in 1999 and a population of 34,072,478 as of July 1, 1999. Among counties with "reliable" rates, the crude rate ranged from 22.6 in San Francisco County to 4.4 in Santa Clara County, a difference in rates by a factor of 5.1 to 1.*

*The age-adjusted death rate from drug-related deaths for California for 1999 was 9.1 per 100,000 population. Reliable age-adjusted death rates ranged from 21.5 in Humboldt County to 4.3 in Santa Clara County. The difference between crude and age-adjusted rates shows how the county age composition differs from the 2000 United States population.*

*Altogether 7 counties (none with reliable age-adjusted death rates), but not California as a whole, met the Year 2010 National Objective of 1.0 drug-related deaths per 100,000 population.*

#### **Notes:**

Death rates are per 100,000 population. The crude death rate is the actual risk of dying. The age-adjusted rate is the hypothetical rate that the State/County would have if its population were distributed by age in the same proportions as the 2000 United States population.

- \* Death rate unreliable, relative standard error is greater than or equal to 23%.
- + Standard error indeterminate, death rate based on no (zero) deaths.
- Upper and lower limits at the 95% confidence level are not calculated for no (zero) deaths.

Counties were rank ordered first by increasing age-adjusted death rate (calculated to 15 decimal places), second by decreasing size of the population. For purposes of this report, rates with a relative standard error of greater than or equal to 23% are considered "unreliable." The upper and lower limits of the age-adjusted death rate at the 95% confidence level indicate the precision of the estimated death rate. The wider the interval, the less precise the death rate. The upper and lower limits define the range within which the death rate probably would occur in 95 out of 100 independent sets of data similar to the present set. (For additional information see the Technical Notes, pages 63 through 72.)

#### **DATA SOURCES**

Department of Health Services: Death Statistical Master Files, 1999.

Department of Finance: 1999 Population Projections with Age, Sex and Race/Ethnic Detail, May 2000.

**TABLE 12  
DRUG-RELATED DEATHS  
RANKED BY AGE-ADJUSTED DEATH RATES  
CALIFORNIA COUNTIES, 1999**

| RANK<br>ORDER                        | COUNTY          | 1999<br>POPULATION | 1999         |                     | AGE-ADJUSTED<br>DEATH RATE | 95% CONFIDENCE LIMITS |            |
|--------------------------------------|-----------------|--------------------|--------------|---------------------|----------------------------|-----------------------|------------|
|                                      |                 |                    | DEATHS       | CRUDE<br>DEATH RATE |                            | LOWER                 | UPPER      |
| 1                                    | LASSEN          | 35,208             | 0            | 0.0 +               | 0.0 +                      | -                     | -          |
| 2                                    | GLENN           | 28,438             | 0            | 0.0 +               | 0.0 +                      | -                     | -          |
| 3                                    | TRINITY         | 13,353             | 0            | 0.0 +               | 0.0 +                      | -                     | -          |
| 4                                    | MONO            | 10,730             | 0            | 0.0 +               | 0.0 +                      | -                     | -          |
| 5                                    | MODOC           | 10,384             | 0            | 0.0 +               | 0.0 +                      | -                     | -          |
| 6                                    | SIERRA          | 3,427              | 0            | 0.0 +               | 0.0 +                      | -                     | -          |
| 7                                    | ALPINE          | 1,226              | 0            | 0.0 +               | 0.0 +                      | -                     | -          |
| <b>YEAR 2010 NATIONAL OBJECTIVE:</b> |                 |                    |              |                     | <b>1.0</b>                 |                       |            |
| 8                                    | AMADOR          | 34,410             | 1            | 2.9 *               | 3.1 *                      | 0.0                   | 9.2        |
| 9                                    | SANTA CLARA     | 1,732,034          | 77           | 4.4                 | 4.3                        | 3.4                   | 5.3        |
| 10                                   | INYO            | 18,348             | 1            | 5.5 *               | 4.9 *                      | 0.0                   | 14.6       |
| 11                                   | SUTTER          | 79,992             | 4            | 5.0 *               | 5.1 *                      | 0.1                   | 10.1       |
| 12                                   | NAPA            | 125,123            | 7            | 5.6 *               | 5.1 *                      | 1.3                   | 8.9        |
| 13                                   | TUOLUMNE        | 54,631             | 3            | 5.5 *               | 5.5 *                      | 0.0                   | 11.7       |
| 14                                   | PLACER          | 233,836            | 14           | 6.0 *               | 5.9 *                      | 2.8                   | 9.0        |
| 15                                   | SOLANO          | 392,201            | 23           | 5.9                 | 6.0                        | 3.5                   | 8.5        |
| 16                                   | YOLO            | 160,805            | 8            | 5.0 *               | 6.1 *                      | 1.8                   | 10.3       |
| 17                                   | SAN BENITO      | 50,087             | 3            | 6.0 *               | 6.3 *                      | 0.0                   | 13.4       |
| 18                                   | DEL NORTE       | 30,358             | 2            | 6.6 *               | 7.3 *                      | 0.0                   | 17.5       |
| 19                                   | SISKIYOU        | 44,847             | 3            | 6.7 *               | 7.5 *                      | 0.0                   | 16.1       |
| 20                                   | BUTTE           | 204,216            | 14           | 6.9 *               | 7.5 *                      | 3.6                   | 11.5       |
| 21                                   | SAN MATEO       | 735,381            | 57           | 7.8                 | 7.6                        | 5.6                   | 9.5        |
| 22                                   | CONTRA COSTA    | 921,662            | 72           | 7.8                 | 7.7                        | 5.9                   | 9.5        |
| 23                                   | ORANGE          | 2,787,593          | 220          | 7.9                 | 7.8                        | 6.8                   | 8.9        |
| 24                                   | ALAMEDA         | 1,448,643          | 121          | 8.4                 | 8.1                        | 6.6                   | 9.5        |
| 25                                   | PLUMAS          | 20,714             | 2            | 9.7 *               | 8.2 *                      | 0.0                   | 19.6       |
| 26                                   | LOS ANGELES     | 9,727,841          | 797          | 8.2                 | 8.3                        | 7.7                   | 8.9        |
| 27                                   | FRESNO          | 800,121            | 61           | 7.6                 | 8.4                        | 6.3                   | 10.5       |
| 28                                   | VENTURA         | 744,825            | 63           | 8.5                 | 8.5                        | 6.4                   | 10.6       |
| 29                                   | CALAVERAS       | 40,597             | 3            | 7.4 *               | 9.0 *                      | 0.0                   | 19.4       |
| 30                                   | MONTEREY        | 395,133            | 33           | 8.4                 | 9.0                        | 5.9                   | 12.1       |
| 31                                   | SACRAMENTO      | 1,189,056          | 109          | 9.2                 | 9.1                        | 7.4                   | 10.8       |
| <b>CALIFORNIA</b>                    |                 | <b>34,072,478</b>  | <b>3,051</b> | <b>9.0</b>          | <b>9.1</b>                 | <b>8.8</b>            | <b>9.4</b> |
| 32                                   | MERCED          | 210,707            | 17           | 8.1 *               | 9.4 *                      | 4.9                   | 13.9       |
| 33                                   | SONOMA          | 450,187            | 45           | 10.0                | 9.5                        | 6.7                   | 12.2       |
| 34                                   | SAN BERNARDINO  | 1,688,984          | 156          | 9.2                 | 9.9                        | 8.3                   | 11.4       |
| 35                                   | SANTA BARBARA   | 408,292            | 40           | 9.8                 | 9.9                        | 6.8                   | 13.0       |
| 36                                   | EL DORADO       | 156,996            | 16           | 10.2 *              | 10.0 *                     | 5.0                   | 14.9       |
| 37                                   | MADERA          | 121,779            | 11           | 9.0 *               | 10.1 *                     | 4.1                   | 16.1       |
| 38                                   | SAN DIEGO       | 2,884,572          | 265          | 9.2                 | 10.2                       | 9.0                   | 11.5       |
| 39                                   | RIVERSIDE       | 1,519,469          | 145          | 9.5                 | 10.3                       | 8.6                   | 12.0       |
| 40                                   | SANTA CRUZ      | 255,825            | 27           | 10.6                | 10.5                       | 6.5                   | 14.4       |
| 41                                   | NEVADA          | 94,014             | 10           | 10.6 *              | 10.5 *                     | 3.8                   | 17.3       |
| 42                                   | COLUSA          | 20,091             | 2            | 10.0 *              | 11.2 *                     | 0.0                   | 26.7       |
| 43                                   | MARIN           | 247,073            | 30           | 12.1                | 11.2                       | 7.2                   | 15.3       |
| 44                                   | TULARE          | 371,640            | 39           | 10.5                | 11.9                       | 8.2                   | 15.7       |
| 45                                   | SAN JOAQUIN     | 566,793            | 65           | 11.5                | 12.2                       | 9.2                   | 15.2       |
| 46                                   | SAN LUIS OBISPO | 247,880            | 29           | 11.7                | 12.5                       | 7.9                   | 17.1       |
| 47                                   | KINGS           | 123,683            | 14           | 11.3 *              | 13.2 *                     | 6.2                   | 20.3       |
| 48                                   | STANISLAUS      | 446,056            | 57           | 12.8                | 13.6                       | 10.1                  | 17.2       |
| 49                                   | KERN            | 662,472            | 83           | 12.5                | 13.7                       | 10.7                  | 16.6       |
| 50                                   | IMPERIAL        | 150,381            | 18           | 12.0 *              | 14.4 *                     | 7.6                   | 21.1       |
| 51                                   | MENDOCINO       | 88,978             | 13           | 14.6 *              | 14.9 *                     | 6.7                   | 23.1       |
| 52                                   | SHASTA          | 171,211            | 28           | 16.4                | 17.4                       | 10.9                  | 23.8       |
| 53                                   | MARIPOSA        | 16,339             | 3            | 18.4 *              | 18.8 *                     | 0.0                   | 41.2       |
| 54                                   | LAKE            | 58,335             | 10           | 17.1 *              | 18.9 *                     | 6.8                   | 31.1       |
| 55                                   | TEHAMA          | 55,806             | 10           | 17.9 *              | 19.9 *                     | 7.5                   | 32.4       |
| 56                                   | SAN FRANCISCO   | 788,975            | 178          | 22.6                | 20.4                       | 17.3                  | 23.4       |
| 57                                   | HUMBOLDT        | 127,658            | 28           | 21.9                | 21.5                       | 13.5                  | 29.4       |
| 58                                   | YUBA            | 63,062             | 14           | 22.2 *              | 25.1 *                     | 11.9                  | 38.4       |

## **TABLE 13: DEATHS DUE TO DIABETES, 1999**

California Counties Ranked by Average Age-Adjusted Death Rate

*The crude death rate from diabetes for California was 17.6 per 100,000 population, a risk of dying equivalent to approximately one death for every 5,675 persons. This rate was based on the number of deaths of 6,004 in 1999 and a population of 34,072,478 as of July 1, 1999. Among counties with "reliable" rates, the crude rate ranged from 41.2 in Tehama County to 13.3 in San Luis Obispo County, a difference in rates by a factor of 3.1 to 1.*

*The age-adjusted death rate from diabetes for California for 1999 was 20.5 per 100,000 population. Reliable age-adjusted death rates ranged from 51.8 in Kings County to 11.9 in San Luis Obispo County. The difference between crude and age-adjusted rates shows how the county age composition differs from the 2000 United States population.*

*Altogether 57 counties (35 with a reliable age-adjusted death rate) and California as whole, met the Year 2010 National Objective of 45.0 deaths due to diabetes per 100,000 population.*

### **Notes:**

Death rates are per 100,000 population. The crude death rate is the actual risk of dying. The age-adjusted rate is the hypothetical rate that the State/County would have if its population were distributed by age in the same proportions as the 2000 United States population.

- \* Death rate unreliable, relative standard error is greater than or equal to 23%.
- + Standard error indeterminate, death rate based on no (zero) deaths.
- Upper and lower limits at the 95% confidence level are not calculated for no (zero) deaths.

Counties were rank ordered first by increasing age-adjusted death rate (calculated to 15 decimal places), second by decreasing size of the population. For purposes of this report, rates with a relative standard error of greater than or equal to 23% are considered "unreliable." The upper and lower limits of the age-adjusted death rate at the 95% confidence level indicate the precision of the estimated death rate. The wider the interval, the less precise the death rate. The upper and lower limits define the range within which the death rate probably would occur in 95 out of 100 independent sets of data similar to the present set. (For additional information see the Technical Notes, pages 63 through 72.)

### **DATA SOURCES**

Department of Health Services: Death Statistical Master Files, 1999.

Department of Finance: 1999 Population Projections with Age, Sex and Race/Ethnic Detail, May 2000.

**TABLE 13  
DEATHS DUE TO DIABETES  
RANKED BY AGE-ADJUSTED DEATH RATES  
CALIFORNIA COUNTIES, 1999**

| RANK<br>ORDER | COUNTY                               | 1999<br>POPULATION | 1999<br>DEATHS | CRUDE<br>DEATH RATE | AGE-ADJUSTED<br>DEATH RATE | 95% CONFIDENCE LIMITS |             |
|---------------|--------------------------------------|--------------------|----------------|---------------------|----------------------------|-----------------------|-------------|
|               |                                      |                    |                |                     |                            | LOWER                 | UPPER       |
| 1             | MONO                                 | 10,730             | 0              | 0.0 +               | 0.0 +                      | -                     | -           |
| 2             | ALPINE                               | 1,226              | 0              | 0.0 +               | 0.0 +                      | -                     | -           |
| 3             | SUTTER                               | 79,992             | 4              | 5.0 *               | 4.8 *                      | 0.1                   | 9.6         |
| 4             | MARIN                                | 247,073            | 18             | 7.3 *               | 7.0 *                      | 3.8                   | 10.3        |
| 5             | NEVADA                               | 94,014             | 10             | 10.6 *              | 7.8 *                      | 2.9                   | 12.7        |
| 6             | AMADOR                               | 34,410             | 5              | 14.5 *              | 8.7 *                      | 1.1                   | 16.4        |
| 7             | CALAVERAS                            | 40,597             | 6              | 14.8 *              | 11.8 *                     | 2.0                   | 21.5        |
| 8             | SAN LUIS OBISPO                      | 247,880            | 33             | 13.3                | 11.9                       | 7.8                   | 16.0        |
| 9             | MODOC                                | 10,384             | 2              | 19.3 *              | 13.2 *                     | 0.0                   | 31.5        |
| 10            | RIVERSIDE                            | 1,519,469          | 213            | 14.0                | 14.1                       | 12.2                  | 16.0        |
| 11            | SAN MATEO                            | 735,381            | 110            | 15.0                | 14.7                       | 12.0                  | 17.5        |
| 12            | INYO                                 | 18,348             | 4              | 21.8 *              | 15.3 *                     | 0.1                   | 30.5        |
| 13            | SAN FRANCISCO                        | 788,975            | 143            | 18.1                | 15.3                       | 12.8                  | 17.8        |
| 14            | PLACER                               | 233,836            | 35             | 15.0                | 15.3                       | 10.2                  | 20.4        |
| 15            | SAN DIEGO                            | 2,884,572          | 377            | 13.1                | 15.3                       | 13.8                  | 16.8        |
| 16            | TUOLUMNE                             | 54,631             | 11             | 20.1 *              | 15.5 *                     | 6.2                   | 24.9        |
| 17            | DEL NORTE                            | 30,358             | 5              | 16.5 *              | 15.6 *                     | 1.9                   | 29.4        |
| 18            | SONOMA                               | 450,187            | 75             | 16.7                | 16.2                       | 12.5                  | 19.8        |
| 19            | BUTTE                                | 204,216            | 45             | 22.0                | 16.2                       | 11.3                  | 21.1        |
| 20            | LASSEN                               | 35,208             | 5              | 14.2 *              | 16.4 *                     | 2.0                   | 30.8        |
| 21            | SANTA BARBARA                        | 408,292            | 65             | 15.9                | 16.5                       | 12.5                  | 20.6        |
| 22            | CONTRA COSTA                         | 921,662            | 146            | 15.8                | 16.6                       | 13.9                  | 19.3        |
| 23            | SAN BENITO                           | 50,087             | 7              | 14.0 *              | 16.9 *                     | 4.4                   | 29.4        |
| 24            | MONTEREY                             | 395,133            | 55             | 13.9                | 17.4                       | 12.8                  | 22.0        |
| 25            | EL DORADO                            | 156,996            | 28             | 17.8                | 17.5                       | 11.0                  | 24.0        |
| 26            | SANTA CLARA                          | 1,732,034          | 230            | 13.3                | 17.6                       | 15.3                  | 19.9        |
| 27            | LAKE                                 | 58,335             | 18             | 30.9 *              | 18.2 *                     | 9.7                   | 26.7        |
| 28            | KERN                                 | 662,472            | 105            | 15.8                | 19.2                       | 15.6                  | 22.9        |
| 29            | SANTA CRUZ                           | 255,825            | 45             | 17.6                | 19.4                       | 13.7                  | 25.1        |
| 30            | NAPA                                 | 125,123            | 31             | 24.8                | 19.8                       | 12.8                  | 26.8        |
| 31            | ORANGE                               | 2,787,593          | 427            | 15.3                | 20.1                       | 18.2                  | 22.1        |
| 32            | SACRAMENTO                           | 1,189,056          | 212            | 17.8                | 20.4                       | 17.7                  | 23.2        |
|               | <b>CALIFORNIA</b>                    | <b>34,072,478</b>  | <b>6,004</b>   | <b>17.6</b>         | <b>20.5</b>                | <b>20.0</b>           | <b>21.0</b> |
| 33            | SISKIYOU                             | 44,847             | 13             | 29.0 *              | 20.8 *                     | 9.5                   | 32.1        |
| 34            | IMPERIAL                             | 150,381            | 24             | 16.0                | 20.8                       | 12.5                  | 29.2        |
| 35            | MARIPOSA                             | 16,339             | 5              | 30.6 *              | 21.0 *                     | 2.2                   | 39.8        |
| 36            | SOLANO                               | 392,201            | 60             | 15.3                | 21.5                       | 16.0                  | 27.1        |
| 37            | VENTURA                              | 744,825            | 136            | 18.3                | 22.2                       | 18.4                  | 25.9        |
| 38            | COLUSA                               | 20,091             | 4              | 19.9 *              | 22.2 *                     | 0.4                   | 44.1        |
| 39            | MENDOCINO                            | 88,978             | 21             | 23.6                | 22.3                       | 12.7                  | 31.9        |
| 40            | SIERRA                               | 3,427              | 1              | 29.2 *              | 22.4 *                     | 0.0                   | 66.2        |
| 41            | YOLO                                 | 160,805            | 29             | 18.0                | 22.9                       | 14.5                  | 31.2        |
| 42            | ALAMEDA                              | 1,448,643          | 285            | 19.7                | 22.9                       | 20.2                  | 25.5        |
| 43            | PLUMAS                               | 20,714             | 6              | 29.0 *              | 23.0 *                     | 4.0                   | 42.1        |
| 44            | LOS ANGELES                          | 9,727,841          | 1,820          | 18.7                | 23.8                       | 22.7                  | 24.9        |
| 45            | TULARE                               | 371,640            | 73             | 19.6                | 23.9                       | 18.5                  | 29.4        |
| 46            | HUMBOLDT                             | 127,658            | 30             | 23.5                | 24.0                       | 15.4                  | 32.6        |
| 47            | MADERA                               | 121,779            | 28             | 23.0                | 24.4                       | 15.4                  | 33.5        |
| 48            | STANISLAUS                           | 446,056            | 100            | 22.4                | 26.4                       | 21.2                  | 31.6        |
| 49            | SHASTA                               | 171,211            | 51             | 29.8                | 26.8                       | 19.4                  | 34.3        |
| 50            | GLENN                                | 28,438             | 8              | 28.1 *              | 27.6 *                     | 8.4                   | 46.8        |
| 51            | SAN JOAQUIN                          | 566,793            | 139            | 24.5                | 27.6                       | 23.0                  | 32.2        |
| 52            | TRINITY                              | 13,353             | 5              | 37.4 *              | 29.9 *                     | 3.6                   | 56.3        |
| 53            | SAN BERNARDINO                       | 1,688,984          | 365            | 21.6                | 30.5                       | 27.3                  | 33.7        |
| 54            | YUBA                                 | 63,062             | 16             | 25.4 *              | 30.7 *                     | 15.7                  | 45.8        |
| 55            | MERCED                               | 210,707            | 48             | 22.8                | 30.9                       | 22.2                  | 39.7        |
| 56            | FRESNO                               | 800,121            | 204            | 25.5                | 31.4                       | 27.1                  | 35.8        |
| 57            | TEHAMA                               | 55,806             | 23             | 41.2                | 31.5                       | 18.5                  | 44.5        |
|               | <b>YEAR 2010 NATIONAL OBJECTIVE:</b> |                    |                |                     |                            | <b>45.0</b>           |             |
| 58            | KINGS                                | 123,683            | 40             | 32.3                | 51.8                       | 35.7                  | 67.9        |

## **TABLE 14: REPORTED INCIDENCE OF HEPATITIS C, 1999**

### California Counties Ranked By Crude Case Rate

*The crude case rate of reported Hepatitis C cases for California was 104.4 cases per 100,000 population or approximately one reported Hepatitis C case for every 958 persons. This rate was based on the 1999 reported number of cases of 35,573 and a population of 34,072,478 as of July 1, 1999. Among counties with "reliable" rates, the crude case rate ranged from 968.44 in Del Norte County to 9.93 in San Mateo County, a difference in rates by a factor of 97.5 to 1.*

*Altogether four counties (none with reliable case rates), but not California as a whole, met the Year 2010 National Objective of 1.00 case per 100,000 population.*

#### **Notes:**

Case rates are per 100,000 population.

- \* Case rate unreliable, relative standard error is greater than or equal to 23%.
- + Standard error indeterminate, case rate based on no (zero) cases.
- Upper and lower limits at the 95% confidence level are not calculated for no (zero) cases.

Counties were rank ordered first by increasing case rate (calculated to 15 decimal places), second by decreasing size of the population. For purposes of this report, rates with a relative standard error greater than or equal to 23% are considered "unreliable." The upper and lower limits of the crude case rate at the 95% confidence level give an indication of the precision of the estimated case rate. The wider the interval, the less precise the rate. The upper and lower limits of the crude case rate at the 95% confidence level define the range within which the case rate would probably occur in 95 out of 100 independent sets of data similar to the present set. (For additional information see the Technical Notes, pages 63 through 72.)

#### **DATA SOURCES**

Department of Health Services: Disease Investigation & Surveillance Branch.

Department of Finance: 1999 Population Projections with Age, Sex and Race/Ethnic Detail, May 2000.

**TABLE 14  
REPORTED INCIDENCE OF HEPATITIS C  
RANKED BY CRUDE CASE RATE  
CALIFORNIA COUNTIES, 1999**

| RANK<br>ORDER                        | COUNTY          | 1999<br>POPULATION | 1999<br>CASES    | CRUDE<br>CASE RATE | 95% CONFIDENCE LIMITS |               |
|--------------------------------------|-----------------|--------------------|------------------|--------------------|-----------------------|---------------|
|                                      |                 |                    |                  |                    | LOWER                 | UPPER         |
| 1                                    | FRESNO          | 800,121            | 0                | 0.00 +             | -                     | -             |
| 2                                    | MODOC           | 10,384             | 0                | 0.00 +             | -                     | -             |
| 3                                    | ALPINE          | 1,226              | 0                | 0.00 +             | -                     | -             |
| 4                                    | SAN FRANCISCO   | 788,975            | 2                | 0.25 *             | 0.00                  | 0.60          |
| <b>YEAR 2010 NATIONAL OBJECTIVE:</b> |                 |                    |                  | <b>1.00</b>        |                       |               |
| 5                                    | SAN MATEO       | 735,381            | 73               | 9.93               | 7.65                  | 12.20         |
| 6                                    | NEVADA          | 94,014             | 10               | 10.64 *            | 4.04                  | 17.23         |
| 7                                    | AMADOR          | 34,410             | 4                | 11.62 *            | 0.23                  | 23.02         |
| 8                                    | GLENN           | 28,438             | 9                | 31.65 *            | 10.97                 | 52.32         |
| 9                                    | PLUMAS          | 20,714             | 7                | 33.79 *            | 8.76                  | 58.83         |
| 10                                   | SAN BENITO      | 50,087             | 18               | 35.94 *            | 19.34                 | 52.54         |
| 11                                   | MONO            | 10,730             | 4                | 37.28 *            | 0.75                  | 73.81         |
| 12                                   | COLUSA          | 20,091             | 8                | 39.82 *            | 12.23                 | 67.41         |
| 13                                   | PLACER          | 233,836            | 125              | 53.46              | 44.08                 | 62.83         |
| 14                                   | SIERRA          | 3,427              | 2                | 58.36 *            | 0.00                  | 139.24        |
| 15                                   | EL DORADO       | 156,996            | 92               | 58.60              | 46.63                 | 70.57         |
| 16                                   | ALAMEDA         | 1,448,643          | 881              | 60.82              | 56.80                 | 64.83         |
| 17                                   | MERCED          | 210,707            | 166              | 78.78              | 66.80                 | 90.77         |
| 18                                   | VENTURA         | 744,825            | 592              | 79.48              | 73.08                 | 85.88         |
| 19                                   | TULARE          | 371,640            | 306              | 82.34              | 73.11                 | 91.56         |
| 20                                   | SAN LUIS OBISPO | 247,880            | 211              | 85.12              | 73.64                 | 96.61         |
| 21                                   | NAPA            | 125,123            | 109              | 87.11              | 70.76                 | 103.47        |
| 22                                   | SACRAMENTO      | 1,189,056          | 1,041            | 87.55              | 82.23                 | 92.87         |
| 23                                   | SANTA CLARA     | 1,732,034          | 1,520            | 87.76              | 83.35                 | 92.17         |
| 24                                   | ORANGE          | 2,787,593          | 2,493            | 89.43              | 85.92                 | 92.94         |
| 25                                   | MONTEREY        | 395,133            | 356              | 90.10              | 80.74                 | 99.46         |
| 26                                   | TEHAMA          | 55,806             | 51               | 91.39              | 66.31                 | 116.47        |
| 27                                   | MARIPOSA        | 16,339             | 15               | 91.80 *            | 45.35                 | 138.26        |
| 28                                   | INYO            | 18,348             | 17               | 92.65 *            | 48.61                 | 136.70        |
| 29                                   | YOLO            | 160,805            | 151              | 93.90              | 78.92                 | 108.88        |
| 30                                   | SANTA BARBARA   | 408,292            | 386              | 94.54              | 85.11                 | 103.97        |
| 31                                   | LOS ANGELES     | 9,727,841          | 9,737            | 100.09             | 98.11                 | 102.08        |
| 32                                   | SISKIYOU        | 44,847             | 46               | 102.57             | 72.93                 | 132.21        |
| 33                                   | SAN DIEGO       | 2,884,572          | 2,999            | 103.97             | 100.25                | 107.69        |
| <b>CALIFORNIA</b>                    |                 | <b>34,072,478</b>  | <b>35,573.00</b> | <b>104.40</b>      | <b>103.32</b>         | <b>105.49</b> |
| 34                                   | TUOLUMNE        | 54,631             | 58               | 106.17             | 78.84                 | 133.49        |
| 35                                   | SUTTER          | 79,992             | 85               | 106.26             | 83.67                 | 128.85        |
| 36                                   | RIVERSIDE       | 1,519,469          | 1,635            | 107.60             | 102.39                | 112.82        |
| 37                                   | SANTA CRUZ      | 255,825            | 276              | 107.89             | 95.16                 | 120.61        |
| 38                                   | YUBA            | 63,062             | 72               | 114.17             | 87.80                 | 140.55        |
| 39                                   | SONOMA          | 450,187            | 577              | 128.17             | 117.71                | 138.63        |
| 40                                   | MENDOCINO       | 88,978             | 116              | 130.37             | 106.64                | 154.09        |
| 41                                   | MARIN           | 247,073            | 334              | 135.18             | 120.68                | 149.68        |
| 42                                   | CALAVERAS       | 40,597             | 56               | 137.94             | 101.81                | 174.07        |
| 43                                   | BUTTE           | 204,216            | 288              | 141.03             | 124.74                | 157.31        |
| 44                                   | STANISLAUS      | 446,056            | 636              | 142.58             | 131.50                | 153.66        |
| 45                                   | SAN BERNARDINO  | 1,688,984          | 2,598            | 153.82             | 147.91                | 159.74        |
| 46                                   | CONTRA COSTA    | 921,662            | 1,418            | 153.85             | 145.84                | 161.86        |
| 47                                   | SOLANO          | 392,201            | 723              | 184.34             | 170.91                | 197.78        |
| 48                                   | LAKE            | 58,335             | 124              | 212.57             | 175.15                | 249.98        |
| 49                                   | KERN            | 662,472            | 1,409            | 212.69             | 201.58                | 223.79        |
| 50                                   | TRINITY         | 13,353             | 29               | 217.18             | 138.13                | 296.22        |
| 51                                   | HUMBOLDT        | 127,658            | 279              | 218.55             | 192.91                | 244.20        |
| 52                                   | IMPERIAL        | 150,381            | 341              | 226.76             | 202.69                | 250.83        |
| 53                                   | SHASTA          | 171,211            | 401              | 234.21             | 211.29                | 257.14        |
| 54                                   | SAN JOAQUIN     | 566,793            | 1,361            | 240.12             | 227.37                | 252.88        |
| 55                                   | KINGS           | 123,683            | 416              | 336.34             | 304.02                | 368.67        |
| 56                                   | MADERA          | 121,779            | 446              | 366.24             | 332.25                | 400.23        |
| 57                                   | LASSEN          | 35,208             | 170              | 482.84             | 410.26                | 555.43        |
| 58                                   | DEL NORTE       | 30,358             | 294              | 968.44             | 857.74                | 1079.15       |

## **TABLE 15: REPORTED INCIDENCE OF AIDS AMONG POPULATION AGES 13 YEARS AND OVER, 1997-1999**

California Counties Ranked By Three-Year Average Crude Case Rate

*The crude case rate of reported AIDS cases for Californians ages 13 years and over was 25.46 cases per 100,000 population ages 13 years and over or approximately one reported AIDS case for every 4,084 persons. This rate was based on a 1997 to 1999 three-year average reported number of cases of 5,945.00 and a population of 24,281,166 as of July 1, 1998. Among counties with "reliable" rates, the crude case rate ranged from 143.85 in San Francisco County to 8.90 in Ventura County, a difference in rates by a factor of 16.2 to 1.*

*The Year 2010 National Objective for incidence of AIDS among population ages 13 years and over is 1.00 case per 100,000 population.*

*Altogether 6 counties (none with reliable case rates), but not California as a whole, met the Year 2010 National Objective of 1.00 case per 100,000 population ages 13 years and over.*

### **Notes:**

Case rates are per 100,000 population. The average number of cases excludes those with "unknown" county of residence.

- \* Case rate unreliable, relative standard error is greater than or equal to 23%.
- + Standard error indeterminate, case rate based on no (zero) cases.
- Upper and lower limits at the 95% confidence level are not calculated for no (zero) cases.

Counties were rank ordered first by increasing case rate (calculated to 15 decimal places), second by decreasing size of the population. For purposes of this report, rates with a relative standard error greater than or equal to 23% are considered "unreliable." The upper and lower limits of the crude case rate at the 95% confidence level give an indication of the precision of the estimated case rate. The wider the interval, the less precise the rate. The upper and lower limits of the crude case rate at the 95% confidence level define the range within which the case rate would probably occur in 95 out of 100 independent sets of data similar to the present set. (For additional information see the Technical Notes, pages 63 through 72.)

### **DATA SOURCES**

Department of Health Services: Office of AIDS, AIDS Case Registry.

Department of Finance: 1998 Population Estimates with Age, Sex and Race/Ethnic Detail, October 2000.

**TABLE 15**  
**REPORTED INCIDENCE OF AIDS AMONG POPULATION AGES 13 YEARS AND OVER**  
**RANKED BY THREE-YEAR AVERAGE CRUDE CASE RATE**  
**CALIFORNIA COUNTIES, 1997-1999**

| RANK ORDER                           | COUNTY            | 1998 POPULATION AGED 13 AND OVER | 1997-1999 CASES (AVERAGE) | CRUDE CASE RATE | 95% CONFIDENCE LIMITS |              |
|--------------------------------------|-------------------|----------------------------------|---------------------------|-----------------|-----------------------|--------------|
|                                      |                   |                                  |                           |                 | LOWER                 | UPPER        |
| 1                                    | COLUSA            | 13,179                           | 0.00                      | 0.00 +          | -                     | -            |
| 2                                    | TRINITY           | 10,255                           | 0.00                      | 0.00 +          | -                     | -            |
| 3                                    | MONO              | 8,191                            | 0.00                      | 0.00 +          | -                     | -            |
| 4                                    | MODOC             | 7,607                            | 0.00                      | 0.00 +          | -                     | -            |
| 5                                    | SIERRA            | 2,783                            | 0.00                      | 0.00 +          | -                     | -            |
| 6                                    | ALPINE            | 942                              | 0.00                      | 0.00 +          | -                     | -            |
| <b>YEAR 2010 NATIONAL OBJECTIVE:</b> |                   |                                  |                           | <b>1.00</b>     |                       |              |
| 7                                    | GLENN             | 19,118                           | 0.33                      | 1.74 *          | 0.00                  | 7.66         |
| 8                                    | PLACER            | 168,134                          | 4.33                      | 2.58 *          | 0.15                  | 5.00         |
| 9                                    | TEHAMA            | 41,404                           | 1.67                      | 4.03 *          | 0.00                  | 10.14        |
| 10                                   | YOLO              | 106,344                          | 4.33                      | 4.07 *          | 0.24                  | 7.91         |
| 11                                   | IMPERIAL          | 96,804                           | 4.33                      | 4.48 *          | 0.26                  | 8.69         |
| 12                                   | DEL NORTE         | 20,993                           | 1.00                      | 4.76 *          | 0.00                  | 14.10        |
| 13                                   | PLUMAS            | 16,179                           | 1.00                      | 6.18 *          | 0.00                  | 18.30        |
| 14                                   | EL DORADO         | 114,718                          | 7.33                      | 6.39 *          | 1.77                  | 11.02        |
| 15                                   | MERCED            | 138,237                          | 9.00                      | 6.51 *          | 2.26                  | 10.76        |
| 16                                   | INYO              | 14,120                           | 1.00                      | 7.08 *          | 0.00                  | 20.96        |
| 17                                   | TULARE            | 245,956                          | 17.67                     | 7.18 *          | 3.83                  | 10.53        |
| 18                                   | CALAVERAS         | 29,982                           | 2.33                      | 7.78 *          | 0.00                  | 17.77        |
| 19                                   | SAN BENITO        | 33,979                           | 2.67                      | 7.85 *          | 0.00                  | 17.27        |
| 20                                   | HUMBOLDT          | 96,180                           | 7.67                      | 7.97 *          | 2.33                  | 13.61        |
| 21                                   | BUTTE             | 153,419                          | 12.67                     | 8.26 *          | 3.71                  | 12.80        |
| 22                                   | MADERA            | 80,658                           | 6.67                      | 8.27 *          | 1.99                  | 14.54        |
| 23                                   | SUTTER            | 55,485                           | 4.67                      | 8.41 *          | 0.78                  | 16.04        |
| 24                                   | VENTURA           | 537,738                          | 46.00                     | 8.55 *          | 6.08                  | 11.03        |
| 25                                   | TUOLUMNE          | 41,889                           | 3.67                      | 8.75 *          | 0.00                  | 17.71        |
| 26                                   | NAPA              | 94,421                           | 8.33                      | 8.83 *          | 2.83                  | 14.82        |
| 27                                   | SHASTA            | 123,481                          | 11.00                     | 8.91 *          | 3.64                  | 14.17        |
| 28                                   | SANTA BARBARA     | 295,644                          | 27.67                     | 9.36 *          | 5.87                  | 12.85        |
| 29                                   | YUBA              | 41,648                           | 4.00                      | 9.60 *          | 0.19                  | 19.02        |
| 30                                   | MENDOCINO         | 64,920                           | 6.33                      | 9.76 *          | 2.16                  | 17.35        |
| 31                                   | NEVADA            | 71,340                           | 7.33                      | 10.28 *         | 2.84                  | 17.72        |
| 32                                   | MARIPOSA          | 12,788                           | 1.33                      | 10.43 *         | 0.00                  | 28.12        |
| 33                                   | SISKIYOU          | 33,873                           | 3.67                      | 10.82 *         | 0.00                  | 21.90        |
| 34                                   | STANISLAUS        | 304,604                          | 34.00                     | 11.16 *         | 7.41                  | 14.91        |
| 35                                   | SANTA CRUZ        | 187,327                          | 21.33                     | 11.39 *         | 6.56                  | 16.22        |
| 36                                   | FRESNO            | 540,875                          | 63.67                     | 11.77 *         | 8.88                  | 14.66        |
| 37                                   | SANTA CLARA       | 1,269,067                        | 165.00                    | 13.00 *         | 11.02                 | 14.99        |
| 38                                   | SAN JOAQUIN       | 393,188                          | 52.00                     | 13.23 *         | 9.63                  | 16.82        |
| 39                                   | CONTRA COSTA      | 689,282                          | 93.33                     | 13.54 *         | 10.79                 | 16.29        |
| 40                                   | SAN BERNARDINO    | 1,139,083                        | 155.67                    | 13.67 *         | 11.52                 | 15.81        |
| 41                                   | SAN MATEO         | 550,456                          | 76.00                     | 13.81 *         | 10.70                 | 16.91        |
| 42                                   | ORANGE            | 2,005,668                        | 297.33                    | 14.82 *         | 13.14                 | 16.51        |
| 43                                   | SONOMA            | 336,648                          | 50.00                     | 14.85 *         | 10.74                 | 18.97        |
| 44                                   | SAN LUIS OBISPO   | 176,868                          | 27.33                     | 15.45 *         | 9.66                  | 21.25        |
| 45                                   | AMADOR            | 27,137                           | 4.33                      | 15.97 *         | 0.93                  | 31.00        |
| 46                                   | MONTEREY          | 271,774                          | 44.00                     | 16.19 *         | 11.41                 | 20.97        |
| 47                                   | KERN              | 444,658                          | 80.67                     | 18.14 *         | 14.18                 | 22.10        |
| 48                                   | SACRAMENTO        | 861,390                          | 166.67                    | 19.35 *         | 16.41                 | 22.29        |
| 49                                   | LAKE              | 42,613                           | 9.33                      | 21.90 *         | 7.85                  | 35.95        |
| 50                                   | LASSEN            | 25,427                           | 5.67                      | 22.29 *         | 3.94                  | 40.64        |
|                                      | <b>CALIFORNIA</b> | <b>24,281,166</b>                | <b>5,945.00</b>           | <b>24.48</b>    | <b>23.86</b>          | <b>25.11</b> |
| 51                                   | KINGS             | 85,017                           | 23.33                     | 27.45 *         | 16.31                 | 38.58        |
| 52                                   | RIVERSIDE         | 1,047,180                        | 289.00                    | 27.60 *         | 24.42                 | 30.78        |
| 53                                   | MARIN             | 195,690                          | 55.67                     | 28.45 *         | 20.97                 | 35.92        |
| 54                                   | ALAMEDA           | 1,066,738                        | 312.33                    | 29.28 *         | 26.03                 | 32.53        |
| 55                                   | LOS ANGELES       | 6,896,923                        | 2,104.00                  | 30.51 *         | 29.20                 | 31.81        |
| 56                                   | SOLANO            | 279,840                          | 85.67                     | 30.61 *         | 24.13                 | 37.10        |
| 57                                   | SAN DIEGO         | 2,014,570                        | 625.33                    | 31.04 *         | 28.61                 | 33.47        |
| 58                                   | SAN FRANCISCO     | 636,734                          | 895.33                    | 140.61 *        | 131.40                | 149.82       |

## **TABLE 16: REPORTED INCIDENCE OF TUBERCULOSIS, 1997-1999**

California Counties Ranked By Three-Year Average Crude Case Rate

*The crude case rate of reported tuberculosis cases for California was 11.47 cases per 100,000 population or approximately one reported tuberculosis case for every 8,721 persons. This rate was based on a 1997 to 1999 three-year average reported number of cases of 3,840.67 and a population of 33,492,817 as of July 1, 1998.*

*Among counties with "reliable" rates, the crude case rate ranged from 28.88 in San Francisco County to 5.03 in Riverside County, a difference in rates by a factor of 5.7 to 1.*

*Altogether 9 counties, (none with reliable case rates), but not California as a whole, met the Year 2010 National Objective of 1.00 case per 100,000 population.*

*The Year 2010 National Objective of 1.00 case per 100,000 population reflects a decrease from the Year 2000 National Objective of 3.50 cases per 100,000 population. Twenty counties, (none with reliable case rates), but not California as a whole, met the Year 2000 National Objective of 3.50 cases per 100,000 population.*

### **Notes:**

Case rates are per 100,000 population.

- \* Case rate unreliable, relative standard error is greater than or equal to 23%.
- + Standard error indeterminate, case rate based on no (zero) cases.
- Upper and lower limits at the 95% confidence level are not calculated for no (zero) cases.

Counties were rank ordered first by increasing case rate (calculated to 15 decimal places), second by decreasing size of the population. Of two counties with the same case rate, the one with the larger population is ranked ahead of the smaller. For purposes of this report, rates with a relative standard error greater than or equal to 23% are considered "unreliable." The upper and lower limits of the crude case rate at the 95% confidence level give an indication of the precision of the estimated case rate. The wider the interval, the less precise the rate. The upper and lower limits of the crude case rate at the 95% confidence level define the range within which the case rate would probably occur in 95 out of 100 independent sets of data similar to the present set. (For additional information see the Technical Notes, pages 63 through 72.)

### **DATA SOURCES**

Department of Health Services: Division of Communicable Disease Control.

Department of Finance: 1998 Population Estimates with Age, Sex and Race/Ethnic Detail, October 2000.

**TABLE 16**  
**REPORTED INCIDENCE OF TUBERCULOSIS**  
**RANKED BY THREE-YEAR AVERAGE CRUDE CASE RATE**  
**CALIFORNIA COUNTIES, 1997-1999**

| RANK ORDER                           | COUNTY          | 1998 POPULATION   | 1997-1999 CASES (AVERAGE) | CRUDE CASE RATE | 95% CONFIDENCE LIMITS |              |
|--------------------------------------|-----------------|-------------------|---------------------------|-----------------|-----------------------|--------------|
|                                      |                 |                   |                           |                 | LOWER                 | UPPER        |
| 1                                    | INYO            | 18,236            | 0.00                      | 0.00 +          | -                     | -            |
| 2                                    | MARIPOSA        | 16,060            | 0.00                      | 0.00 +          | -                     | -            |
| 3                                    | TRINITY         | 13,184            | 0.00                      | 0.00 +          | -                     | -            |
| 4                                    | MONO            | 10,600            | 0.00                      | 0.00 +          | -                     | -            |
| 5                                    | MODOC           | 9,845             | 0.00                      | 0.00 +          | -                     | -            |
| 6                                    | SIERRA          | 3,371             | 0.00                      | 0.00 +          | -                     | -            |
| 7                                    | ALPINE          | 1,189             | 0.00                      | 0.00 +          | -                     | -            |
| 8                                    | CALAVERAS       | 38,222            | 0.33                      | 0.87 *          | 0.00                  | 3.83         |
| 9                                    | LASSEN          | 33,473            | 0.33                      | 1.00 *          | 0.00                  | 4.38         |
| <b>YEAR 2010 NATIONAL OBJECTIVE:</b> |                 |                   |                           | <b>1.00</b>     |                       |              |
| 10                                   | NEVADA          | 89,952            | 1.00                      | 1.11 *          | 0.00                  | 3.29         |
| 11                                   | DEL NORTE       | 27,804            | 0.33                      | 1.20 *          | 0.00                  | 5.27         |
| 12                                   | GLENN           | 26,796            | 0.33                      | 1.24 *          | 0.00                  | 5.47         |
| 13                                   | EL DORADO       | 150,152           | 2.33                      | 1.55 *          | 0.00                  | 3.55         |
| 14                                   | PLUMAS          | 20,370            | 0.33                      | 1.64 *          | 0.00                  | 7.19         |
| 15                                   | PLACER          | 223,121           | 4.00                      | 1.79 *          | 0.04                  | 3.55         |
| 16                                   | AMADOR          | 33,121            | 0.67                      | 2.01 *          | 0.00                  | 6.84         |
| 17                                   | SISKIYOU        | 43,968            | 1.00                      | 2.27 *          | 0.00                  | 6.73         |
| 18                                   | MENDOCINO       | 86,212            | 2.33                      | 2.71 *          | 0.00                  | 6.18         |
| 19                                   | NAPA            | 122,560           | 3.67                      | 2.99 *          | 0.00                  | 6.05         |
| 20                                   | SONOMA          | 440,461           | 15.33                     | 3.48 *          | 1.74                  | 5.22         |
| 21                                   | BUTTE           | 199,611           | 7.00                      | 3.51 *          | 0.91                  | 6.10         |
| 22                                   | SHASTA          | 164,748           | 6.33                      | 3.84 *          | 0.85                  | 6.84         |
| 23                                   | TEHAMA          | 55,130            | 2.33                      | 4.23 *          | 0.00                  | 9.66         |
| 24                                   | LAKE            | 55,079            | 2.33                      | 4.24 *          | 0.00                  | 9.67         |
| 25                                   | SAN LUIS OBISPO | 238,094           | 10.33                     | 4.34 *          | 1.69                  | 6.99         |
| 26                                   | MERCED          | 204,352           | 9.67                      | 4.73 *          | 1.75                  | 7.71         |
| 27                                   | RIVERSIDE       | 1,458,486         | 73.33                     | 5.03            | 3.88                  | 6.18         |
| 28                                   | COLUSA          | 18,590            | 1.00                      | 5.38 *          | 0.00                  | 15.92        |
| 29                                   | SANTA CRUZ      | 250,763           | 13.67                     | 5.45 *          | 2.56                  | 8.34         |
| 30                                   | TUOLUMNE        | 52,705            | 3.00                      | 5.69 *          | 0.00                  | 12.13        |
| 31                                   | MARIN           | 244,911           | 14.00                     | 5.72 *          | 2.72                  | 8.71         |
| 32                                   | TULARE          | 361,420           | 24.33                     | 6.73            | 4.06                  | 9.41         |
| 33                                   | YOLO            | 155,995           | 10.67                     | 6.84 *          | 2.73                  | 10.94        |
| 34                                   | SAN BERNARDINO  | 1,645,702         | 114.67                    | 6.97            | 5.69                  | 8.24         |
| 35                                   | STANISLAUS      | 431,029           | 31.00                     | 7.19            | 4.66                  | 9.72         |
| 36                                   | MADERA          | 114,782           | 8.67                      | 7.55 *          | 2.52                  | 12.58        |
| 37                                   | SAN BENITO      | 47,762            | 3.67                      | 7.68 *          | 0.00                  | 15.53        |
| 38                                   | SANTA BARBARA   | 404,996           | 31.33                     | 7.74            | 5.03                  | 10.45        |
| 39                                   | HUMBOLDT        | 125,778           | 10.33                     | 8.22 *          | 3.21                  | 13.22        |
| 40                                   | YUBA            | 60,347            | 5.33                      | 8.84 *          | 1.34                  | 16.34        |
| 41                                   | VENTURA         | 738,121           | 66.00                     | 8.94            | 6.78                  | 11.10        |
| 42                                   | KERN            | 640,005           | 57.67                     | 9.01            | 6.68                  | 11.34        |
| 43                                   | SUTTER          | 76,645            | 7.00                      | 9.13 *          | 2.37                  | 15.90        |
| 44                                   | SACRAMENTO      | 1,176,182         | 118.00                    | 10.03           | 8.22                  | 11.84        |
| 45                                   | SAN MATEO       | 721,374           | 75.67                     | 10.49           | 8.13                  | 12.85        |
| 46                                   | ORANGE          | 2,763,830         | 291.33                    | 10.54           | 9.33                  | 11.75        |
| 47                                   | SOLANO          | 385,372           | 42.33                     | 10.99           | 7.68                  | 14.29        |
| 48                                   | CONTRA COSTA    | 916,897           | 102.00                    | 11.12           | 8.97                  | 13.28        |
| 49                                   | SAN DIEGO       | 2,828,325         | 323.00                    | 11.42           | 10.17                 | 12.67        |
| <b>CALIFORNIA</b>                    |                 | <b>33,492,817</b> | <b>3,840.67</b>           | <b>11.47</b>    | <b>11.10</b>          | <b>11.83</b> |
| 50                                   | KINGS           | 124,184           | 14.33                     | 11.54 *         | 5.57                  | 17.52        |
| 51                                   | MONTEREY        | 384,087           | 46.67                     | 12.15           | 8.66                  | 15.64        |
| 52                                   | SAN JOAQUIN     | 551,531           | 67.67                     | 12.27           | 9.35                  | 15.19        |
| 53                                   | FRESNO          | 785,081           | 102.33                    | 13.03           | 10.51                 | 15.56        |
| 54                                   | LOS ANGELES     | 9,639,736         | 1,366.00                  | 14.17           | 13.42                 | 14.92        |
| 55                                   | SANTA CLARA     | 1,701,372         | 251.00                    | 14.75           | 12.93                 | 16.58        |
| 56                                   | ALAMEDA         | 1,428,262         | 228.00                    | 15.96           | 13.89                 | 18.04        |
| 57                                   | IMPERIAL        | 143,423           | 38.67                     | 26.96           | 18.46                 | 35.46        |
| 58                                   | SAN FRANCISCO   | 789,413           | 228.00                    | 28.88           | 25.13                 | 32.63        |

## **TABLE 17: REPORTED INCIDENCE OF CHLAMYDIA, 1997-1999**

### California Counties Ranked By Three-Year Average Crude Case Rate

*The crude case rate of reported chlamydia cases for California was 228.96 cases per 100,000 population or approximately one reported chlamydia case for every 437 persons. This rate was based on a 1997 to 1999 three-year average reported number of cases of 76,684.67 and a population of 33,492,817 as of July 1, 1998.*

*Among counties with "reliable" rates, the crude case rate ranged from 344.59 in Fresno County to 50.40 in Nevada County, a difference in rates by a factor of 6.8 to 1.*

*Prevalence data is not available in California to evaluate the Year 2010 National Objective of no more than 3 percent testing positive in the population aged 15 to 24 years old.*

#### **Notes:**

Case rates are per 100,000 population.

\* Case rate unreliable, relative standard error is greater than or equal to 23%.

Counties were rank ordered first by increasing case rate (calculated to 15 decimal places), second by decreasing size of the population. Of two counties with the same case rate, the one with the larger population is ranked ahead of the smaller. For purposes of this report, rates with a relative standard error greater than or equal to 23% are considered "unreliable." The upper and lower limits of the crude case rate at the 95% confidence level give an indication of the precision of the estimated case rate. The wider the interval, the less precise the rate. The upper and lower limits of the crude case rate at the 95% confidence level define the range within which the case rate would probably occur in 95 out of 100 independent sets of data similar to the present set. (For additional information see the Technical Notes, pages 63 through 72.)

#### **DATA SOURCES**

Department of Health Services: Division of Communicable Disease Control.

Department of Finance: 1998 Population Estimates with Age, Sex and Race/Ethnic Detail, October 2000.

**TABLE 17**  
**REPORTED INCIDENCE OF CHLAMYDIA**  
**RANKED BY THREE-YEAR AVERAGE CRUDE CASE RATE**  
**CALIFORNIA COUNTIES, 1997-1999**

| RANK ORDER | COUNTY            | 1998 POPULATION   | 1997-1999 CASES (AVERAGE) | CRUDE CASE RATE | 95% CONFIDENCE LIMITS |               |
|------------|-------------------|-------------------|---------------------------|-----------------|-----------------------|---------------|
|            |                   |                   |                           |                 | LOWER                 | UPPER         |
| 1          | SIERRA            | 3,371             | 0.67                      | 19.78 *         | 0.00                  | 67.25         |
| 2          | CALAVERAS         | 38,222            | 13.33                     | 34.88 *         | 16.16                 | 53.61         |
| 3          | AMADOR            | 33,121            | 12.33                     | 37.24 *         | 16.45                 | 58.02         |
| 4          | NEVADA            | 89,952            | 45.33                     | 50.40           | 35.73                 | 65.07         |
| 5          | MARIPOSA          | 16,060            | 8.67                      | 53.96 *         | 18.04                 | 89.89         |
| 6          | TRINITY           | 13,184            | 8.00                      | 60.68 *         | 18.63                 | 102.73        |
| 7          | EL DORADO         | 150,152           | 90.67                     | 60.38           | 47.95                 | 72.81         |
| 8          | MODOC             | 9,845             | 6.33                      | 64.33 *         | 14.23                 | 114.43        |
| 9          | TUOLUMNE          | 52,705            | 35.00                     | 66.41           | 44.41                 | 88.41         |
| 10         | PLUMAS            | 20,370            | 13.67                     | 67.09 *         | 31.52                 | 102.66        |
| 11         | PLACER            | 223,121           | 152.67                    | 68.42           | 57.57                 | 79.28         |
| 12         | LASSEN            | 33,473            | 25.33                     | 75.68           | 46.21                 | 105.15        |
| 13         | NAPA              | 122,560           | 101.33                    | 82.68           | 66.58                 | 98.78         |
| 14         | LAKE              | 55,079            | 49.33                     | 89.57           | 64.57                 | 114.56        |
| 15         | GLENN             | 26,796            | 26.00                     | 97.03           | 59.73                 | 134.33        |
| 16         | MARIN             | 244,911           | 252.33                    | 103.03          | 90.32                 | 115.74        |
| 17         | DEL NORTE         | 27,804            | 30.33                     | 109.10          | 70.27                 | 147.92        |
| 18         | ALPINE            | 1,189             | 1.33                      | 112.14 *        | 0.00                  | 302.48        |
| 19         | SONOMA            | 440,461           | 505.33                    | 114.73          | 104.73                | 124.73        |
| 20         | SAN LUIS OBISPO   | 238,094           | 280.00                    | 117.60          | 103.83                | 131.38        |
| 21         | SAN BENITO        | 47,762            | 56.33                     | 117.95          | 87.15                 | 148.75        |
| 22         | MONO              | 10,600            | 13.00                     | 122.64 *        | 55.97                 | 189.31        |
| 23         | SISKIYOU          | 43,968            | 55.67                     | 126.61          | 93.35                 | 159.87        |
| 24         | VENTURA           | 738,121           | 928.33                    | 125.77          | 117.68                | 133.86        |
| 25         | MENDOCINO         | 86,212            | 111.67                    | 129.53          | 105.50                | 153.55        |
| 26         | SAN MATEO         | 721,374           | 939.00                    | 130.17          | 121.84                | 138.49        |
| 27         | TEHAMA            | 55,130            | 75.00                     | 136.04          | 105.25                | 166.83        |
| 28         | SUTTER            | 76,645            | 105.33                    | 137.43          | 111.18                | 163.68        |
| 29         | ORANGE            | 2,763,830         | 3,894.33                  | 140.90          | 136.48                | 145.33        |
| 30         | SANTA CRUZ        | 250,763           | 366.00                    | 145.95          | 131.00                | 160.91        |
| 31         | YUBA              | 60,347            | 92.67                     | 153.56          | 122.29                | 184.82        |
| 32         | RIVERSIDE         | 1,458,486         | 2,164.33                  | 148.40          | 142.14                | 154.65        |
| 33         | COLUSA            | 18,590            | 28.33                     | 152.41          | 96.29                 | 208.53        |
| 34         | YOLO              | 155,995           | 238.33                    | 152.78          | 133.39                | 172.18        |
| 35         | INYO              | 18,236            | 28.33                     | 155.37          | 98.16                 | 212.58        |
| 36         | BUTTE             | 199,611           | 340.00                    | 170.33          | 152.23                | 188.44        |
| 37         | SANTA BARBARA     | 404,996           | 711.67                    | 175.72          | 162.81                | 188.63        |
| 38         | CONTRA COSTA      | 916,897           | 1,662.67                  | 181.34          | 172.62                | 190.05        |
| 39         | SANTA CLARA       | 1,701,372         | 3,175.33                  | 186.63          | 180.14                | 193.13        |
| 40         | SHASTA            | 164,748           | 311.00                    | 188.77          | 167.79                | 209.75        |
| 41         | IMPERIAL          | 143,423           | 275.67                    | 192.21          | 169.52                | 214.90        |
| 42         | MONTEREY          | 384,087           | 767.67                    | 199.87          | 185.73                | 214.01        |
| 43         | MADERA            | 114,782           | 245.33                    | 213.74          | 186.99                | 240.48        |
| 44         | MERCED            | 204,352           | 448.33                    | 219.39          | 199.08                | 239.70        |
| 45         | STANISLAUS        | 431,029           | 985.00                    | 228.52          | 214.25                | 242.79        |
|            | <b>CALIFORNIA</b> | <b>33,492,817</b> | <b>76,684.67</b>          | <b>228.96</b>   | <b>227.34</b>         | <b>230.58</b> |
| 46         | SAN DIEGO         | 2,828,325         | 6,983.67                  | 246.92          | 241.13                | 252.71        |
| 47         | SAN JOAQUIN       | 551,531           | 1,380.00                  | 250.21          | 237.01                | 263.41        |
| 48         | SAN BERNARDINO    | 1,645,702         | 4,143.33                  | 251.77          | 244.10                | 259.43        |
| 49         | TULARE            | 361,420           | 954.67                    | 264.14          | 247.39                | 280.90        |
| 50         | KERN              | 640,005           | 1,753.00                  | 273.90          | 261.08                | 286.73        |
| 51         | SOLANO            | 385,372           | 1,052.33                  | 273.07          | 256.57                | 289.57        |
| 52         | ALAMEDA           | 1,428,262         | 3,939.33                  | 275.81          | 267.20                | 284.43        |
| 53         | LOS ANGELES       | 9,639,736         | 26,898.33                 | 279.04          | 275.70                | 282.37        |
| 54         | HUMBOLDT          | 125,778           | 363.00                    | 288.60          | 258.91                | 318.29        |
| 55         | KINGS             | 124,184           | 346.00                    | 278.62          | 249.26                | 307.98        |
| 56         | SAN FRANCISCO     | 789,413           | 2,540.67                  | 321.84          | 309.33                | 334.36        |
| 57         | SACRAMENTO        | 1,176,182         | 3,947.67                  | 335.63          | 325.16                | 346.10        |
| 58         | FRESNO            | 785,081           | 2,705.33                  | 344.59          | 331.61                | 357.58        |

**TABLE 18: REPORTED INCIDENCE OF PRIMARY AND SECONDARY SYPHILIS, 1997-1999**

California Counties Ranked By Three-Year Average Crude Case Rate

| RANK ORDER                           | COUNTY          | 1998 POPULATION   | 1997-1999 CASES (AVERAGE) | CRUDE CASE RATE | 95% CONFIDENCE LIMITS |             |
|--------------------------------------|-----------------|-------------------|---------------------------|-----------------|-----------------------|-------------|
|                                      |                 |                   |                           |                 | LOWER                 | UPPER       |
| 33                                   | SAN LUIS OBISPO | 238,094           | 0.33                      | 0.14 *          | 0.00                  | 0.62        |
| 34                                   | SANTA BARBARA   | 404,996           | 0.67                      | 0.16 *          | 0.00                  | 0.56        |
| 35                                   | SACRAMENTO      | 1,176,182         | 2.33                      | 0.20 *          | 0.00                  | 0.45        |
| <b>YEAR 2010 NATIONAL OBJECTIVE:</b> |                 |                   |                           | <b>0.20</b>     |                       |             |
| 36                                   | RIVERSIDE       | 1,458,486         | 3.00                      | 0.21 *          | 0.00                  | 0.44        |
| 37                                   | SANTA CLARA     | 1,701,372         | 3.67                      | 0.22 *          | 0.00                  | 0.44        |
| 38                                   | CONTRA COSTA    | 916,897           | 2.33                      | 0.25 *          | 0.00                  | 0.58        |
| 39                                   | SOLANO          | 385,372           | 1.00                      | 0.26 *          | 0.00                  | 0.77        |
| 40                                   | SANTA CRUZ      | 250,763           | 0.67                      | 0.27 *          | 0.00                  | 0.90        |
| 41                                   | KINGS           | 124,184           | 0.33                      | 0.27 *          | 0.00                  | 1.18        |
| 42                                   | MARIN           | 244,911           | 0.67                      | 0.27 *          | 0.00                  | 0.93        |
| 43                                   | SAN MATEO       | 721,374           | 2.33                      | 0.32 *          | 0.00                  | 0.74        |
| 44                                   | VENTURA         | 738,121           | 2.67                      | 0.36 *          | 0.00                  | 0.79        |
| 45                                   | SAN BERNARDINO  | 1,645,702         | 9.00                      | 0.55 *          | 0.19                  | 0.90        |
| 46                                   | TULARE          | 361,420           | 2.00                      | 0.55 *          | 0.00                  | 1.32        |
| 47                                   | MONTEREY        | 384,087           | 2.33                      | 0.61 *          | 0.00                  | 1.39        |
| 48                                   | ALAMEDA         | 1,428,262         | 10.00                     | 0.70 *          | 0.27                  | 1.13        |
| 49                                   | ORANGE          | 2,763,830         | 21.33                     | 0.77            | 0.44                  | 1.10        |
| 50                                   | SAN DIEGO       | 2,828,325         | 24.00                     | 0.85            | 0.51                  | 1.19        |
| <b>CALIFORNIA</b>                    |                 | <b>33,492,817</b> | <b>330.00</b>             | <b>0.99</b>     | <b>0.88</b>           | <b>1.09</b> |
| 51                                   | MERCED          | 204,352           | 2.33                      | 1.14 *          | 0.00                  | 2.61        |
| 52                                   | STANISLAUS      | 431,029           | 5.00                      | 1.16 *          | 0.14                  | 2.18        |
| 53                                   | LOS ANGELES     | 9,639,736         | 120.67                    | 1.25            | 1.03                  | 1.48        |
| 54                                   | KERN            | 640,005           | 16.33                     | 2.55 *          | 1.31                  | 3.79        |
| 55                                   | MADERA          | 114,782           | 3.33                      | 2.90 *          | 0.00                  | 6.02        |
| 56                                   | SAN JOAQUIN     | 551,531           | 19.67                     | 3.57            | 1.99                  | 5.14        |
| 57                                   | SAN FRANCISCO   | 789,413           | 37.00                     | 4.69            | 3.18                  | 6.20        |
| 58                                   | FRESNO          | 785,081           | 37.00                     | 4.71            | 3.19                  | 6.23        |

*The crude case rate of reported primary and secondary syphilis cases for California was .99 cases per 100,000 population or approximately one reported syphilis case for every 101,493 persons. Table 18 shows only those counties where at least one case was reported. This rate was based on a 1997 to 1999 three-year average reported number of cases of 330.0, and a population of 33,492,817 as of July 1, 1998.*

*Among counties with "reliable" rates, the crude case rate ranged from 4.71 in Fresno County to .77 in Orange County, a difference in rates by a factor of 6.1 to 1.*

*Altogether 35 counties (none with reliable case rates), but not California as a whole, met the Year 2010 National Objective of .20 cases per 100,000 population.*

*The Year 2010 National Objective of .20 cases per 100,000 population reflects a decrease from the Year 2000 National Objective of 4.00 cases per 100,000 population. Fifty-six counties (four with reliable case rates) and California as a whole met the Year 2000 National Objective of 4.00 cases per 100,000 population.*

(See Table 16 for Notes and Data Sources footnote.)

**TABLE 19: REPORTED INCIDENCE OF MEASLES, 1997-1999**

California Counties Ranked By Three-Year Average Crude Case Rate

| RANK ORDER                           | COUNTY         | 1998 POPULATION   | 1997-1999 CASES (AVERAGE) | CRUDE CASE RATE | 95% CONFIDENCE LIMITS |             |
|--------------------------------------|----------------|-------------------|---------------------------|-----------------|-----------------------|-------------|
|                                      |                |                   |                           |                 | LOWER                 | UPPER       |
| <b>YEAR 2010 NATIONAL OBJECTIVE:</b> |                |                   |                           | <b>0.00</b>     |                       |             |
| 45                                   | SAN BERNARDINO | 1,645,702         | 0.33                      | 0.02 *          | 0.00                  | 0.09        |
| 46                                   | LOS ANGELES    | 9,639,736         | 3.33                      | 0.03 *          | 0.00                  | 0.07        |
| 47                                   | VENTURA        | 738,121           | 0.33                      | 0.05 *          | 0.00                  | 0.20        |
| 48                                   | SAN DIEGO      | 2,828,325         | 1.33                      | 0.05 *          | 0.00                  | 0.13        |
| <b>CALIFORNIA</b>                    |                | <b>33,492,817</b> | <b>16.67</b>              | <b>0.05 *</b>   | <b>0.03</b>           | <b>0.07</b> |
| 49                                   | ORANGE         | 2,763,830         | 2.33                      | 0.08 *          | 0.00                  | 0.19        |
| 50                                   | SAN FRANCISCO  | 789,413           | 0.67                      | 0.08 *          | 0.00                  | 0.29        |
| 51                                   | MONTEREY       | 384,087           | 0.33                      | 0.09 *          | 0.00                  | 0.38        |
| 52                                   | SAN MATEO      | 721,374           | 0.67                      | 0.09 *          | 0.00                  | 0.31        |
| 53                                   | CONTRA COSTA   | 916,897           | 1.00                      | 0.11 *          | 0.00                  | 0.32        |
| 54                                   | PLACER         | 223,121           | 0.33                      | 0.15 *          | 0.00                  | 0.66        |
| 55                                   | ALAMEDA        | 1,428,262         | 2.67                      | 0.19 *          | 0.00                  | 0.41        |
| 56                                   | NEVADA         | 89,952            | 0.33                      | 0.37 *          | 0.00                  | 1.63        |
| 57                                   | HUMBOLDT       | 125,778           | 1.00                      | 0.80 *          | 0.00                  | 2.35        |
| 58                                   | SANTA CRUZ     | 250,763           | 2.00                      | 0.80 *          | 0.00                  | 1.90        |

The crude case rate of reported measles cases for California was 0.05 cases per 100,000 population or approximately one reported measles case for every 2,009,167 persons. Table 19 shows only those counties where at least one case was reported. This rate was based on a 1997 to 1999 three-year average reported number of cases of 16.67 and a population of 33,492,817 as of July 1, 1998. Of the 58 counties, none had a "reliable" rate.

Altogether 44 counties met the Year 2010 National Objective of no reported cases of measles during the three-year period. Many of the remaining counties were so close to zero, that for all practical purposes, the Year 2010 National Objective has been met by these counties as well.

The Year 2010 National Objective for incidence of reported measles cases is zero cases, which is equivalent to a case rate of 0.00 per 100,000 population.

(See Table 16 for Notes and Data Sources footnote.)

## **TABLE 20A: INFANT MORTALITY, ALL RACE/ETHNIC GROUPS, 1995-1997**

California Counties Ranked By Three-Year Average Birth Cohort Infant Death Rate

*The birth cohort infant death rate for California was 6.1 deaths per 1,000 live births, a risk of dying equivalent to approximately one infant death for every 164 births. This rate was based on the 3,280.70 infant deaths among 538,143.3 live births, the three-year average from 1995 to 1997.*

*Among counties with "reliable" rates, the birth cohort infant death rate ranged from 8.8 in Kern County to 4.2 in Sonoma County, a difference in rates by a factor of 2.1 to 1.*

*Altogether 11 counties (2 with reliable rates), but not California as a whole, met the Year 2010 National Objective of 4.5 infant deaths per 1,000 birth cohort live births.*

*The Year 2010 objective of 4.5 infant deaths per 1,000 live births reflects a decrease from the Year 2000 National Objective of 7.0 infant deaths per 1,000 live births. Thirty-eight counties (17 with reliable birth cohort infant death rates) and California as a whole met the Year 2000 National Objective.*

### **Notes:**

Infant deaths are deaths that occurred during the first year of life. Birth cohort infant death rates are per 1,000 live births. The birth cohort infant death rate is based upon births during a calendar year (a cohort) tracked individually for 365 days to determine whether or not death occurred. Thus, the deaths in the numerator of a birth cohort infant death rate are the records of the same infants as the births in the denominator. Birth cohort infant death rates, like population crude death rates, show the true risk of dying, and also, like age-adjusted population death rates, allow direct comparisons between counties.

- \* Death rate unreliable, relative standard error is greater than or equal to 23%.
- + Standard error indeterminate, death rate based on no (zero) deaths.
- Upper and lower limits at the 95% confidence level are not calculated for no (zero) deaths.

Counties were rank ordered first by increasing birth cohort death rate (calculated to 15 decimal places), second by decreasing size of the total number of live births. Infant mortality data by race/ethnicity is based on the mother's race/ethnicity reported on the birth record, and are grouped according to the latest methodology used by the State Data Center, Department of Finance to compile population estimates. For purposes of this report, rates with a relative standard error greater than or equal to 23% are considered "unreliable." The upper and lower limits of the birth cohort death rate at the 95% confidence level indicate the precision of the estimated death rate. The wider the interval, the less precise the death rate. The upper and lower limits define the range within which the death rate would probably occur in 95 out of 100 independent sets of data similar to the present set. (For additional information see the Technical Notes, pages 63 through 72.)

### **DATA SOURCES**

Department of Health Services: Birth Cohort-Perinatal Outcome Files, 1995-1997.

**TABLE 20A**  
**INFANT MORTALITY, ALL RACE/ETHNIC GROUPS**  
**RANKED BY THREE-YEAR AVERAGE BIRTH COHORT INFANT DEATH RATE**  
**CALIFORNIA COUNTIES, 1995-1997**

| RANK ORDER                           | COUNTY          | THREE-YEAR AVERAGE |                | BIRTH COHORT INFANT DEATH RATE | 95% CONFIDENCE LIMITS |            |
|--------------------------------------|-----------------|--------------------|----------------|--------------------------------|-----------------------|------------|
|                                      |                 | LIVE BIRTHS        | INFANT DEATHS  |                                | LOWER                 | UPPER      |
| 1                                    | MONO            | 124.7              | 0.0            | 0.0 +                          | -                     | -          |
| 2                                    | SIERRA          | 17.0               | 0.0            | 0.0 +                          | -                     | -          |
| 3                                    | ALPINE          | 9.3                | 0.0            | 0.0 +                          | -                     | -          |
| 4                                    | MARIN           | 2,636.7            | 9.7            | 3.7 *                          | 1.4                   | 6.0        |
| 5                                    | AMADOR          | 268.7              | 1.0            | 3.7 *                          | 0.0                   | 11.0       |
| 6                                    | GLENN           | 436.7              | 1.7            | 3.8 *                          | 0.0                   | 9.6        |
| 7                                    | EL DORADO       | 1,685.3            | 6.7            | 4.0 *                          | 1.0                   | 7.0        |
| 8                                    | SONOMA          | 5,451.3            | 23.0           | 4.2                            | 2.5                   | 5.9        |
| 9                                    | PLUMAS          | 157.3              | 0.7            | 4.2 *                          | 0.0                   | 14.4       |
| 10                                   | NAPA            | 1,490.7            | 6.3            | 4.2 *                          | 0.9                   | 7.6        |
| 11                                   | SAN FRANCISCO   | 8,385.7            | 36.7           | 4.4                            | 3.0                   | 5.8        |
| <b>YEAR 2010 NATIONAL OBJECTIVE:</b> |                 |                    |                | <b>4.5</b>                     |                       |            |
| 12                                   | SANTA CRUZ      | 3,485.3            | 16.3           | 4.7 *                          | 2.4                   | 7.0        |
| 13                                   | PLACER          | 2,748.0            | 13.0           | 4.7 *                          | 2.2                   | 7.3        |
| 14                                   | ORANGE          | 48,075.0           | 229.3          | 4.8                            | 4.2                   | 5.4        |
| 15                                   | SAN MATEO       | 10,022.3           | 48.3           | 4.8                            | 3.5                   | 6.2        |
| 16                                   | SANTA BARBARA   | 5,859.7            | 28.3           | 4.8                            | 3.1                   | 6.6        |
| 17                                   | TEHAMA          | 676.0              | 3.3            | 4.9 *                          | 0.0                   | 10.2       |
| 18                                   | SAN LUIS OBISPO | 2,543.7            | 12.7           | 5.0 *                          | 2.2                   | 7.7        |
| 19                                   | IMPERIAL        | 2,505.0            | 12.7           | 5.1 *                          | 2.3                   | 7.8        |
| 20                                   | LASSEN          | 308.3              | 1.7            | 5.4 *                          | 0.0                   | 13.6       |
| 21                                   | SANTA CLARA     | 26,351.3           | 143.3          | 5.4                            | 4.5                   | 6.3        |
| 22                                   | SAN DIEGO       | 44,687.7           | 244.0          | 5.5                            | 4.8                   | 6.1        |
| 23                                   | SAN BENITO      | 827.7              | 4.7            | 5.6 *                          | 0.5                   | 10.8       |
| 24                                   | ALAMEDA         | 20,794.3           | 117.3          | 5.6                            | 4.6                   | 6.7        |
| 25                                   | CONTRA COSTA    | 12,355.0           | 70.0           | 5.7                            | 4.3                   | 7.0        |
| 26                                   | CALAVERAS       | 343.0              | 2.0            | 5.8 *                          | 0.0                   | 13.9       |
| 27                                   | MADERA          | 1,995.7            | 11.7           | 5.8 *                          | 2.5                   | 9.2        |
| 28                                   | MONTEREY        | 6,721.7            | 39.3           | 5.9                            | 4.0                   | 7.7        |
| 29                                   | SOLANO          | 5,659.7            | 34.0           | 6.0                            | 4.0                   | 8.0        |
| 30                                   | VENTURA         | 11,670.3           | 71.3           | 6.1                            | 4.7                   | 7.5        |
| <b>CALIFORNIA</b>                    |                 | <b>538,143.3</b>   | <b>3,280.7</b> | <b>6.1</b>                     | <b>5.9</b>            | <b>6.3</b> |
| 31                                   | TULARE          | 7,094.0            | 44.0           | 6.2                            | 4.4                   | 8.0        |
| 32                                   | LOS ANGELES     | 168,710.3          | 1,050.0        | 6.2                            | 5.8                   | 6.6        |
| 33                                   | HUMBOLDT        | 1,517.3            | 9.7            | 6.4 *                          | 2.4                   | 10.4       |
| 34                                   | STANISLAUS      | 7,079.7            | 47.0           | 6.6                            | 4.7                   | 8.5        |
| 35                                   | YOLO            | 2,149.7            | 14.3           | 6.7 *                          | 3.2                   | 10.1       |
| 36                                   | RIVERSIDE       | 23,674.3           | 159.3          | 6.7                            | 5.7                   | 7.8        |
| 37                                   | SHASTA          | 2,028.3            | 13.7           | 6.7 *                          | 3.2                   | 10.3       |
| 38                                   | MARIPOSA        | 146.7              | 1.0            | 6.8 *                          | 0.0                   | 20.2       |
| 39                                   | SISKIYOU        | 483.3              | 3.3            | 6.9 *                          | 0.0                   | 14.3       |
| 40                                   | MERCED          | 3,789.3            | 26.7           | 7.0                            | 4.4                   | 9.7        |
| 41                                   | SACRAMENTO      | 17,967.3           | 127.0          | 7.1                            | 5.8                   | 8.3        |
| 42                                   | SUTTER          | 1,171.3            | 8.3            | 7.1 *                          | 2.3                   | 11.9       |
| 43                                   | SAN JOAQUIN     | 8,849.3            | 63.0           | 7.1                            | 5.4                   | 8.9        |
| 44                                   | LAKE            | 606.7              | 4.3            | 7.1 *                          | 0.4                   | 13.9       |
| 45                                   | NEVADA          | 808.7              | 6.0            | 7.4 *                          | 1.5                   | 13.4       |
| 46                                   | SAN BERNARDINO  | 29,270.3           | 224.7          | 7.7                            | 6.7                   | 8.7        |
| 47                                   | MENDOCINO       | 1,058.7            | 8.3            | 7.9 *                          | 2.5                   | 13.2       |
| 48                                   | BUTTE           | 2,416.7            | 19.3           | 8.0                            | 4.4                   | 11.6       |
| 49                                   | FRESNO          | 14,613.3           | 117.3          | 8.0                            | 6.6                   | 9.5        |
| 50                                   | YUBA            | 1,107.7            | 9.0            | 8.1 *                          | 2.8                   | 13.4       |
| 51                                   | TRINITY         | 122.7              | 1.0            | 8.2 *                          | 0.0                   | 24.1       |
| 52                                   | TUOLUMNE        | 473.7              | 4.0            | 8.4 *                          | 0.2                   | 16.7       |
| 53                                   | KINGS           | 2,160.3            | 18.3           | 8.5 *                          | 4.6                   | 12.4       |
| 54                                   | COLUSA          | 308.7              | 2.7            | 8.6 *                          | 0.0                   | 19.0       |
| 55                                   | KERN            | 11,590.7           | 102.0          | 8.8                            | 7.1                   | 10.5       |
| 56                                   | DEL NORTE       | 322.3              | 3.3            | 10.3 *                         | 0.0                   | 21.4       |
| 57                                   | INYO            | 217.7              | 2.3            | 10.7 *                         | 0.0                   | 24.5       |
| 58                                   | MODOC           | 111.3              | 1.7            | 15.0 *                         | 0.0                   | 37.7       |

## **TABLE 20B: ASIAN/OTHER INFANT MORTALITY, 1995-1997**

California Counties Ranked By Three-Year Average Birth Cohort Infant Death Rate

*The Asian/Other birth cohort infant death rate for California was 5.3 deaths per 1,000 live births, a risk of dying equivalent to approximately one infant death for every 188 births. This rate was based on the 317.7 infant deaths among 59,597.0 live births, the three-year average from 1995 to 1997.*

*Among counties with "reliable" rates, the birth cohort infant death rate ranged from 5.7 in San Diego County to 4.5 in Santa Clara County, a difference in rates by a factor of 1.3 to 1.*

*A Year 2010 National Objective for an Asian/Other birth cohort infant death rate has not been established.*

### **Notes:**

Infant deaths are deaths that occurred during the first year of life. Birth cohort infant death rates are per 1,000 live births. The birth cohort infant death rate is based upon births during a calendar year (a cohort) tracked individually for 365 days to determine whether or not death occurred. Thus, the deaths in the numerator of a birth cohort infant death rate are the records of the same infants as the births in denominator. Birth cohort infant death rates, like population crude death rates, show the true risk of dying, and also, like age-adjusted population death rates, allow direct comparison between counties.

- \* Death rate unreliable, relative standard error is greater than or equal to 23%.
- + Standard error indeterminate, case rate based on no (zero) deaths.
- Upper and lower limits at the 95% confidence level are not calculated for no (zero) deaths.

Counties were rank ordered first by increasing birth cohort death rate (calculated to 15 decimal places), second by decreasing size of the total number of live births. Infant mortality data by race/ethnicity is based on the mother's race/ethnicity reported on the birth record, and are grouped according to the latest methodology used by the State Data Center, Department of Finance to compile population estimates. For purposes of this report, rates with a relative standard error greater than or equal to 23% are considered "unreliable." The upper and lower limits of the birth cohort death rate at the 95% confidence level indicate the precision of the estimated death rate. The wider the interval, the less precise the death rate. The upper and lower limits define the range within which the death rate would probably occur in 95 out of 100 independent sets of data similar to the present set. (For additional information see the Technical Notes, pages 63 through 72.)

### **DATA SOURCES**

Department of Health Services: Birth Cohort-Perinatal Outcome Files, 1995-1997.

**TABLE 20B  
ASIAN/OTHER INFANT MORTALITY  
RANKED BY THREE-YEAR AVERAGE BIRTH COHORT INFANT DEATH RATE  
CALIFORNIA COUNTIES, 1995-1997**

| RANK ORDER  | COUNTY            | THREE-YEAR AVERAGE |               | BIRTH COHORT INFANT DEATH RATE | 95% CONFIDENCE LIMITS |            |
|---|-------------------|--------------------|---------------|--------------------------------|-----------------------|------------|
|   |                   | LIVE BIRTHS        | INFANT DEATHS |                                | LOWER                 | UPPER      |
| <b>YEAR 2010 NATIONAL OBJECTIVE: NONE ESTABLISHED</b> |                   |                    |               |                                |                       |            |
| 1   | SUTTER            | 177.3              | 0.0           | 0.0 +                          | -                     | -          |
| 2   | MARIN             | 168.7              | 0.0           | 0.0 +                          | -                     | -          |
| 3   | PLACER            | 125.0              | 0.0           | 0.0 +                          | -                     | -          |
| 4   | GLENN             | 37.7               | 0.0           | 0.0 +                          | -                     | -          |
| 5   | IMPERIAL          | 28.3               | 0.0           | 0.0 +                          | -                     | -          |
| 6   | SISKIYOU          | 26.3               | 0.0           | 0.0 +                          | -                     | -          |
| 7   | TEHAMA            | 20.7               | 0.0           | 0.0 +                          | -                     | -          |
| 8   | NEVADA            | 20.3               | 0.0           | 0.0 +                          | -                     | -          |
| 9   | SAN BENITO        | 19.7               | 0.0           | 0.0 +                          | -                     | -          |
| 10  | TUOLUMNE          | 15.7               | 0.0           | 0.0 +                          | -                     | -          |
| 11  | COLUSA            | 8.7                | 0.0           | 0.0 +                          | -                     | -          |
| 12  | AMADOR            | 8.3                | 0.0           | 0.0 +                          | -                     | -          |
| 13  | TRINITY           | 7.7                | 0.0           | 0.0 +                          | -                     | -          |
| 14  | PLUMAS            | 7.3                | 0.0           | 0.0 +                          | -                     | -          |
| 15  | MARIPOSA          | 7.3                | 0.0           | 0.0 +                          | -                     | -          |
| 16  | MODOC             | 7.0                | 0.0           | 0.0 +                          | -                     | -          |
| 17  | ALPINE            | 6.3                | 0.0           | 0.0 +                          | -                     | -          |
| 18  | MONO              | 5.7                | 0.0           | 0.0 +                          | -                     | -          |
| 19  | SIERRA            | 0.3                | 0.0           | 0.0 +                          | -                     | -          |
| 20  | MONTEREY          | 393.3              | 1.0           | 2.5 *                          | 0.0                   | 7.5        |
| 21  | SANTA CRUZ        | 114.0              | 0.3           | 2.9 *                          | 0.0                   | 12.9       |
| 22  | SONOMA            | 284.0              | 1.0           | 3.5 *                          | 0.0                   | 10.4       |
| 23  | VENTURA           | 659.3              | 2.3           | 3.5 *                          | 0.0                   | 8.1        |
| 24  | SANTA BARBARA     | 268.7              | 1.0           | 3.7 *                          | 0.0                   | 11.0       |
| 25  | MENDOCINO         | 88.3               | 0.3           | 3.8 *                          | 0.0                   | 16.6       |
| 26  | SAN LUIS OBISPO   | 84.3               | 0.3           | 4.0 *                          | 0.0                   | 17.4       |
| 27  | SAN FRANCISCO     | 2,931.0            | 11.7          | 4.0 *                          | 1.7                   | 6.3        |
| 28  | SANTA CLARA       | 6,872.7            | 30.7          | 4.5                            | 2.9                   | 6.0        |
| 29  | EL DORADO         | 71.7               | 0.3           | 4.7 *                          | 0.0                   | 20.4       |
| 30  | SAN MATEO         | 2,251.0            | 10.7          | 4.7 *                          | 1.9                   | 7.6        |
| 31  | SAN JOAQUIN       | 1,335.7            | 6.7           | 5.0 *                          | 1.2                   | 8.8        |
| 32  | LOS ANGELES       | 16,128.0           | 82.3          | 5.1                            | 4.0                   | 6.2        |
| 33  | CONTRA COSTA      | 1,479.0            | 7.7           | 5.2 *                          | 1.5                   | 8.9        |
| 34  | ALAMEDA           | 4,453.0            | 23.3          | 5.2                            | 3.1                   | 7.4        |
|   | <b>CALIFORNIA</b> | <b>59,597.0</b>    | <b>317.7</b>  | <b>5.3</b>                     | <b>4.7</b>            | <b>5.9</b> |
| 35  | BUTTE             | 248.7              | 1.3           | 5.4 *                          | 0.0                   | 14.5       |
| 36  | YUBA              | 185.0              | 1.0           | 5.4 *                          | 0.0                   | 16.0       |
| 37  | ORANGE            | 5,839.3            | 32.0          | 5.5                            | 3.6                   | 7.4        |
| 38  | SOLANO            | 881.3              | 5.0           | 5.7 *                          | 0.7                   | 10.6       |
| 39  | SAN DIEGO         | 4,629.7            | 26.3          | 5.7                            | 3.5                   | 7.9        |
| 40  | SACRAMENTO        | 2,689.3            | 15.3          | 5.7 *                          | 2.8                   | 8.6        |
| 41  | KERN              | 452.0              | 2.7           | 5.9 *                          | 0.0                   | 13.0       |
| 42  | NAPA              | 54.7               | 0.3           | 6.1 *                          | 0.0                   | 26.8       |
| 43  | SAN BERNARDINO    | 1,571.7            | 10.0          | 6.4 *                          | 2.4                   | 10.3       |
| 44  | YOLO              | 195.0              | 1.3           | 6.8 *                          | 0.0                   | 18.4       |
| 45  | RIVERSIDE         | 1,083.7            | 8.0           | 7.4 *                          | 2.3                   | 12.5       |
| 46  | MADERA            | 45.0               | 0.3           | 7.4 *                          | 0.0                   | 32.6       |
| 47  | STANISLAUS        | 483.7              | 3.7           | 7.6 *                          | 0.0                   | 15.3       |
| 48  | TULARE            | 300.7              | 2.7           | 8.9 *                          | 0.0                   | 19.5       |
| 49  | KINGS             | 111.3              | 1.0           | 9.0 *                          | 0.0                   | 26.6       |
| 50  | FRESNO            | 1,767.0            | 16.0          | 9.1 *                          | 4.6                   | 13.5       |
| 51  | MERCED            | 468.7              | 4.3           | 9.2 *                          | 0.5                   | 18.0       |
| 52  | HUMBOLDT          | 187.0              | 2.0           | 10.7 *                         | 0.0                   | 25.5       |
| 53  | INYO              | 30.7               | 0.3           | 10.9 *                         | 0.0                   | 47.8       |
| 54  | SHASTA            | 146.3              | 1.7           | 11.4 *                         | 0.0                   | 28.7       |
| 55  | DEL NORTE         | 45.3               | 0.7           | 14.7 *                         | 0.0                   | 50.0       |
| 56  | LASSEN            | 18.0               | 0.3           | 18.5 *                         | 0.0                   | 81.4       |
| 57  | CALAVERAS         | 12.7               | 0.3           | 26.3 *                         | 0.0                   | 115.7      |
| 58  | LAKE              | 38.0               | 1.3           | 35.1 *                         | 0.0                   | 94.6       |

## **TABLE 20C: BLACK INFANT MORTALITY, 1995-1997**

California Counties Ranked By Three-Year Average Birth Cohort Infant Death Rate

*The Black birth cohort infant death rate for California was 13.1 deaths per 1,000 live births, a risk of dying equivalent to approximately one infant death for every 77 births. This rate was based on the 488.3 deaths among the 37,414.0 live births, the three-year average from 1995 to 1997.*

*Among counties with "reliable" rates, the birth cohort infant death rate for Blacks ranged from 15.0 in San Bernardino County to 11.7 in Sacramento County, a difference in rates by a factor of 1.3 to 1.*

*A Year 2010 National Objective for a Black birth cohort infant death rate has not been established.*

*The Year 2000 National Objective was 11.0 infant deaths per 1,000 birth cohort live births. Thirty-two counties (none with a reliable birth cohort infant death rate), but not California as a whole, met the Year 2000 National Objective.*

### **Notes:**

Infant deaths are deaths that occurred during the first year of life. Birth cohort infant death rates are per 1,000 live births. The birth cohort infant death rate is based upon births during a calendar year (a cohort) tracked individually for 365 days to determine whether or not death occurred. Thus, the deaths in the numerator of a birth cohort infant death rate are the records of the same infants as the births in the denominator. Birth cohort infant death rates, like population crude death rates, show the true risk of dying and also, like age-adjusted population death rates, allow direct comparisons between counties.

- \* Death rate unreliable, relative standard error is greater than or equal to 23%.
- + Standard error indeterminate, death rate based on no (zero) deaths.
- Upper and lower limits at the 95% confidence level are not calculated for no (zero) deaths.

Counties were rank ordered first by increasing birth cohort death rate (calculated to 15 decimal places), second by decreasing size of the total number of live births. Infant mortality data by race/ethnicity is based on the mother's race/ethnicity reported on the birth record, and are grouped according to the latest methodology used by the State Data Center, Department of Finance to compile population estimates. For purposes of this report, rates with a relative standard error greater than or equal to 23% are considered "unreliable." The upper and lower limits of the birth case rate at the 95% confidence level indicate the precision of the estimated death rate. The wider the interval, the less precise the death rate. The upper and lower limits define the range within which the death rate would probably occur in 95 out of 100 independent sets of data similar to the present set. (For additional information see the Technical Notes, pages 63 through 72.)

### **DATA SOURCES**

Department of Health Services: Birth Cohort-Perinatal Outcome Files, 1995-1997.

**TABLE 20C  
BLACK INFANT MORTALITY  
RANKED BY THREE-YEAR AVERAGE BIRTH COHORT INFANT DEATH RATE  
CALIFORNIA COUNTIES, 1995-1997**

| RANK ORDER                                | COUNTY            | THREE-YEAR AVERAGE |               | BIRTH COHORT INFANT DEATH RATE | 95% CONFIDENCE LIMITS |             |
|---|-------------------|--------------------|---------------|--------------------------------|-----------------------|-------------|
|   |                   | LIVE BIRTHS        | INFANT DEATHS |                                | LOWER                 | UPPER       |
| <b>YEAR 2010 NATIONAL OBJECTIVE: NONI</b> |                   |                    |               |                                |                       |             |
| 1   | SONOMA            | 86.7               | 0.0           | 0.0 +                          | -                     | -           |
| 2   | MARIN             | 64.7               | 0.0           | 0.0 +                          | -                     | -           |
| 3   | IMPERIAL          | 29.3               | 0.0           | 0.0 +                          | -                     | -           |
| 4   | SAN LUIS OBISPO   | 23.3               | 0.0           | 0.0 +                          | -                     | -           |
| 5   | SANTA CRUZ        | 22.7               | 0.0           | 0.0 +                          | -                     | -           |
| 6   | NAPA              | 14.3               | 0.0           | 0.0 +                          | -                     | -           |
| 7   | SISKIYOU          | 6.3                | 0.0           | 0.0 +                          | -                     | -           |
| 8   | EL DORADO         | 6.0                | 0.0           | 0.0 +                          | -                     | -           |
| 9   | MENDOCINO         | 5.7                | 0.0           | 0.0 +                          | -                     | -           |
| 10  | LASSEN            | 4.3                | 0.0           | 0.0 +                          | -                     | -           |
| 11  | SAN BENITO        | 2.7                | 0.0           | 0.0 +                          | -                     | -           |
| 12  | PLUMAS            | 2.0                | 0.0           | 0.0 +                          | -                     | -           |
| 13  | AMADOR            | 2.0                | 0.0           | 0.0 +                          | -                     | -           |
| 14  | GLENN             | 2.0                | 0.0           | 0.0 +                          | -                     | -           |
| 15  | CALAVERAS         | 1.7                | 0.0           | 0.0 +                          | -                     | -           |
| 16  | DEL NORTE         | 1.3                | 0.0           | 0.0 +                          | -                     | -           |
| 17  | TRINITY           | 1.0                | 0.0           | 0.0 +                          | -                     | -           |
| 18  | MARIPOSA          | 0.7                | 0.0           | 0.0 +                          | -                     | -           |
| 19  | INYO              | 0.7                | 0.0           | 0.0 +                          | -                     | -           |
| 20  | NEVADA            | 0.7                | 0.0           | 0.0 +                          | -                     | -           |
| 21  | COLUSA            | 0.3                | 0.0           | 0.0 +                          | -                     | -           |
| 22  | MONO              | 0.3                | 0.0           | 0.0 +                          | -                     | -           |
| 23  | TUOLUMNE          | 0.0                | 0.0           | 0.0 +                          | -                     | -           |
| 24  | MODOC             | 0.0                | 0.0           | 0.0 +                          | -                     | -           |
| 25  | SIERRA            | 0.0                | 0.0           | 0.0 +                          | -                     | -           |
| 26  | ALPINE            | 0.0                | 0.0           | 0.0 +                          | -                     | -           |
| 27  | MADERA            | 48.0               | 0.3           | 6.9 *                          | 0.0                   | 30.5        |
| 28  | BUTTE             | 44.7               | 0.3           | 7.5 *                          | 0.0                   | 32.8        |
| 29  | MONTEREY          | 145.0              | 1.3           | 9.2 *                          | 0.0                   | 24.8        |
| 30  | YUBA              | 33.7               | 0.3           | 9.9 *                          | 0.0                   | 43.5        |
| 31  | SOLANO            | 851.3              | 8.7           | 10.2 *                         | 3.4                   | 17.0        |
| 32  | MERCED            | 151.0              | 1.7           | 11.0 *                         | 0.0                   | 27.8        |
| 33  | ORANGE            | 769.3              | 8.7           | 11.3 *                         | 3.8                   | 18.8        |
| 34  | SACRAMENTO        | 2,199.7            | 25.7          | 11.7                           | 7.2                   | 16.2        |
| 35  | SAN DIEGO         | 3,100.7            | 36.3          | 11.7                           | 7.9                   | 15.5        |
| 36  | ALAMEDA           | 3,803.3            | 45.0          | 11.8                           | 8.4                   | 15.3        |
| 37  | SAN FRANCISCO     | 895.7              | 10.7          | 11.9 *                         | 4.8                   | 19.1        |
| 38  | SAN MATEO         | 376.0              | 4.7           | 12.4 *                         | 1.2                   | 23.7        |
| 39  | CONTRA COSTA      | 1,383.0            | 18.0          | 13.0 *                         | 7.0                   | 19.0        |
|   | <b>CALIFORNIA</b> | <b>37,414.0</b>    | <b>488.3</b>  | <b>13.1</b>                    | <b>11.9</b>           | <b>14.2</b> |
| 40  | LOS ANGELES       | 15,309.3           | 202.0         | 13.2                           | 11.4                  | 15.0        |
| 41  | TULARE            | 96.7               | 1.3           | 13.8 *                         | 0.0                   | 37.2        |
| 42  | RIVERSIDE         | 1,487.3            | 20.7          | 13.9                           | 7.9                   | 19.9        |
| 43  | SANTA CLARA       | 817.7              | 11.7          | 14.3 *                         | 6.1                   | 22.5        |
| 44  | SANTA BARBARA     | 113.3              | 1.7           | 14.7 *                         | 0.0                   | 37.0        |
| 45  | SAN BERNARDINO    | 2,707.0            | 40.7          | 15.0                           | 10.4                  | 19.6        |
| 46  | KERN              | 689.0              | 10.7          | 15.5 *                         | 6.2                   | 24.8        |
| 47  | KINGS             | 122.3              | 2.0           | 16.3 *                         | 0.0                   | 39.0        |
| 48  | VENTURA           | 203.7              | 3.3           | 16.4 *                         | 0.0                   | 33.9        |
| 49  | SAN JOAQUIN       | 649.0              | 10.7          | 16.4 *                         | 6.6                   | 26.3        |
| 50  | PLACER            | 19.0               | 0.3           | 17.5 *                         | 0.0                   | 77.1        |
| 51  | FRESNO            | 833.7              | 14.7          | 17.6 *                         | 8.6                   | 26.6        |
| 52  | YOLO              | 45.3               | 1.0           | 22.1 *                         | 0.0                   | 65.3        |
| 53  | STANISLAUS        | 166.0              | 3.7           | 22.1 *                         | 0.0                   | 44.7        |
| 54  | LAKE              | 15.0               | 0.3           | 22.2 *                         | 0.0                   | 97.7        |
| 55  | HUMBOLDT          | 13.3               | 0.3           | 25.0 *                         | 0.0                   | 109.9       |
| 56  | SUTTER            | 20.7               | 0.7           | 32.3 *                         | 0.0                   | 109.7       |
| 57  | SHASTA            | 20.3               | 0.7           | 32.8 *                         | 0.0                   | 111.5       |
| 58  | TEHAMA            | 5.3                | 0.3           | 62.5 *                         | 0.0                   | 274.7       |

## **TABLE 20D: HISPANIC INFANT MORTALITY, 1995-1997**

California Counties Ranked By Three-Year Average Birth Cohort Infant Death Rate

*The Hispanic birth cohort infant death rate for California was 5.7 deaths per 1,000 live births, a risk of dying equivalent to approximately one infant death for every 174 births. This rate was based on the 1,450.3 deaths among 252,451.7 live births, the three-year average from 1995 to 1997.*

*Among counties with "reliable" rates, the birth cohort infant death rate ranged from 8.8 in Kern County to 4.3 in Alameda County, a difference in rates by a factor of 2.0 to 1.*

*A Year 2010 National Objective for a Hispanic birth cohort infant death rate has not been established.*

### **Notes:**

Infant deaths are deaths that occurred during the first year of life. Birth cohort infant death rates are per 1,000 live births. The birth cohort infant death rate is based upon births during a calendar year (a cohort) tracked individually for 365 days to determine whether or not death occurred. Thus, the deaths in the numerator of a birth cohort infant death rate are the records of the same infants as the births in the denominator. Birth cohort infant death rates, like population crude death rates, show the true risk of dying, and also, like age-adjusted population death rates, allow direct comparisons between counties.

- \* Death rate unreliable, relative standard error is greater than or equal to 23%.
- + Standard error indeterminate, death rate based on no (zero) deaths.
- Upper and lower limits at the 95% confidence level are not calculated for no (zero) deaths.

Counties were rank ordered first by increasing birth cohort death rate (calculated to 15 decimal places), second by decreasing size of the total number of live births. Infant mortality data by race/ethnicity is based on the mother's race/ethnicity reported on the birth record, and are grouped according to the latest methodology used by the State Data Center, Department of Finance to compile population estimates. For purposes of this report, rates with a relative standard error greater than or equal to 23% are considered "unreliable." The upper and lower limits of the birth cohort death rate at the 95% confidence level indicate the precision of the estimated death rate. The wider the interval, the less precise the death rate. The upper and lower limits define the range within which the death rate would probably occur in 95 out of 100 independent sets of data similar to the present set. (For additional information see the Technical Notes, pages 63 through 72.)

### **DATA SOURCES**

Department of Health Services: Birth Cohort-Perinatal Outcome Files, 1995-1997.

**TABLE 20D  
HISPANIC INFANT MORTALITY  
RANKED BY THREE-YEAR AVERAGE BIRTH COHORT INFANT DEATH RATE  
CALIFORNIA COUNTIES, 1995-1997**

| RANK ORDER  | COUNTY            | THREE-YEAR AVERAGE |                | BIRTH COHORT INFANT DEATH RATE | 95% CONFIDENCE LIMITS |            |
|---|-------------------|--------------------|----------------|--------------------------------|-----------------------|------------|
|   |                   | LIVE BIRTHS        | INFANT DEATHS  |                                | LOWER                 | UPPER      |
| <b>YEAR 2010 NATIONAL OBJECTIVE: NONE ESTABLISHED</b> |                   |                    |                |                                |                       |            |
| 1   | TEHAMA            | 188.3              | 0.0            | 0.0 +                          | -                     | -          |
| 2   | LAKE              | 99.3               | 0.0            | 0.0 +                          | -                     | -          |
| 3   | SISKIYOU          | 80.0               | 0.0            | 0.0 +                          | -                     | -          |
| 4   | DEL NORTE         | 44.0               | 0.0            | 0.0 +                          | -                     | -          |
| 5   | MONO              | 43.3               | 0.0            | 0.0 +                          | -                     | -          |
| 6   | CALAVERAS         | 32.0               | 0.0            | 0.0 +                          | -                     | -          |
| 7   | MARIPOSA          | 14.7               | 0.0            | 0.0 +                          | -                     | -          |
| 8   | PLUMAS            | 14.3               | 0.0            | 0.0 +                          | -                     | -          |
| 9   | TRINITY           | 4.0                | 0.0            | 0.0 +                          | -                     | -          |
| 10  | SIERRA            | 1.7                | 0.0            | 0.0 +                          | -                     | -          |
| 11  | ALPINE            | 0.3                | 0.0            | 0.0 +                          | -                     | -          |
| 12  | GLENN             | 174.3              | 0.3            | 1.9 *                          | 0.0                   | 8.4        |
| 13  | BUTTE             | 382.3              | 1.0            | 2.6 *                          | 0.0                   | 7.7        |
| 14  | EL DORADO         | 312.7              | 1.0            | 3.2 *                          | 0.0                   | 9.5        |
| 15  | PLACER            | 397.0              | 1.3            | 3.4 *                          | 0.0                   | 9.1        |
| 16  | NEVADA            | 87.7               | 0.3            | 3.8 *                          | 0.0                   | 16.7       |
| 17  | SAN LUIS OBISPO   | 696.7              | 2.7            | 3.8 *                          | 0.0                   | 8.4        |
| 18  | SAN MATEO         | 3,193.0            | 13.3           | 4.2 *                          | 1.9                   | 6.4        |
| 19  | SONOMA            | 1,501.7            | 6.3            | 4.2 *                          | 0.9                   | 7.5        |
| 20  | ALAMEDA           | 5,216.3            | 22.7           | 4.3                            | 2.6                   | 6.1        |
| 21  | ORANGE            | 22,998.0           | 107.3          | 4.7                            | 3.8                   | 5.6        |
| 22  | SAN FRANCISCO     | 1,908.0            | 9.0            | 4.7 *                          | 1.6                   | 7.8        |
| 23  | MERCED            | 1,973.7            | 9.7            | 4.9 *                          | 1.8                   | 8.0        |
| 24  | YUBA              | 203.7              | 1.0            | 4.9 *                          | 0.0                   | 14.5       |
| 25  | SOLANO            | 1,218.3            | 6.0            | 4.9 *                          | 1.0                   | 8.9        |
| 26  | SANTA CRUZ        | 1,681.0            | 8.3            | 5.0 *                          | 1.6                   | 8.3        |
| 27  | IMPERIAL          | 2,135.0            | 10.7           | 5.0 *                          | 2.0                   | 8.0        |
| 28  | MARIN             | 523.7              | 2.7            | 5.1 *                          | 0.0                   | 11.2       |
| 29  | SAN JOAQUIN       | 3,388.7            | 17.7           | 5.2 *                          | 2.8                   | 7.6        |
| 30  | SAN DIEGO         | 18,068.0           | 95.3           | 5.3                            | 4.2                   | 6.3        |
| 31  | CONTRA COSTA      | 2,838.0            | 15.0           | 5.3 *                          | 2.6                   | 8.0        |
| 32  | SANTA BARBARA     | 3,262.7            | 17.3           | 5.3 *                          | 2.8                   | 7.8        |
| 33  | NAPA              | 598.3              | 3.3            | 5.6 *                          | 0.0                   | 11.6       |
| 34  | LOS ANGELES       | 104,251.7          | 595.7          | 5.7                            | 5.3                   | 6.2        |
|   | <b>CALIFORNIA</b> | <b>252,451.7</b>   | <b>1,450.3</b> | <b>5.7</b>                     | <b>5.4</b>            | <b>6.0</b> |
| 35  | SUTTER            | 342.3              | 2.0            | 5.8 *                          | 0.0                   | 13.9       |
| 36  | MADERA            | 1,240.0            | 7.3            | 5.9 *                          | 1.6                   | 10.2       |
| 37  | RIVERSIDE         | 11,899.3           | 70.7           | 5.9                            | 4.6                   | 7.3        |
| 38  | INYO              | 55.7               | 0.3            | 6.0 *                          | 0.0                   | 26.3       |
| 39  | STANISLAUS        | 2,960.7            | 18.0           | 6.1 *                          | 3.3                   | 8.9        |
| 40  | YOLO              | 819.0              | 5.0            | 6.1 *                          | 0.8                   | 11.5       |
| 41  | MONTEREY          | 4,294.0            | 26.7           | 6.2                            | 3.9                   | 8.6        |
| 42  | SACRAMENTO        | 3,595.3            | 22.3           | 6.2                            | 3.6                   | 8.8        |
| 43  | TULARE            | 4,575.3            | 28.7           | 6.3                            | 4.0                   | 8.6        |
| 44  | TUOLUMNE          | 51.7               | 0.3            | 6.5 *                          | 0.0                   | 28.4       |
| 45  | SANTA CLARA       | 9,211.0            | 60.0           | 6.5                            | 4.9                   | 8.2        |
| 46  | SAN BERNARDINO    | 14,192.3           | 93.0           | 6.6                            | 5.2                   | 7.9        |
| 47  | SHASTA            | 145.0              | 1.0            | 6.9 *                          | 0.0                   | 20.4       |
| 48  | KINGS             | 1,111.7            | 7.7            | 6.9 *                          | 2.0                   | 11.8       |
| 49  | VENTURA           | 5,413.3            | 39.0           | 7.2                            | 4.9                   | 9.5        |
| 50  | FRESNO            | 7,961.7            | 57.7           | 7.2                            | 5.4                   | 9.1        |
| 51  | SAN BENITO        | 509.7              | 4.0            | 7.8 *                          | 0.2                   | 15.5       |
| 52  | COLUSA            | 195.0              | 1.7            | 8.5 *                          | 0.0                   | 21.5       |
| 53  | KERN              | 5,825.0            | 51.0           | 8.8                            | 6.4                   | 11.2       |
| 54  | LASSEN            | 35.3               | 0.3            | 9.4 *                          | 0.0                   | 41.5       |
| 55  | MENDOCINO         | 306.0              | 3.3            | 10.9 *                         | 0.0                   | 22.6       |
| 56  | MODOC             | 27.0               | 0.3            | 12.3 *                         | 0.0                   | 54.3       |
| 57  | AMADOR            | 26.7               | 0.3            | 12.5 *                         | 0.0                   | 54.9       |
| 58  | HUMBOLDT          | 126.3              | 1.7            | 13.2 *                         | 0.0                   | 33.2       |

## **TABLE 20E: WHITE INFANT MORTALITY, 1995-1997**

California Counties Ranked By Three-Year Average Birth Cohort Infant Death Rate

*The White birth cohort infant death rate for California was 5.5 deaths per 1,000 live births, a risk of dying equivalent to approximately one infant death for every 181 births. This rate was based on the 1,043.0 deaths among 188,680.7 live births, the three-year average from 1995 to 1997.*

*Among counties with "reliable" rates, the birth cohort infant death rate ranged from 8.4 in Kern County to 4.1 in Alameda County, a difference in rates by a factor of 2 to 1.*

*A Year 2010 National Objective for a White birth cohort infant death rate has not been established.*

### **Notes:**

Infant deaths are deaths that occurred during the first year of life. Birth cohort infant death rates are per 1,000 live births. The birth cohort infant death rate is based upon births during a calendar year (a cohort) tracked individually for 365 days to determine whether or not death occurred. Thus, the deaths in the numerator of a birth cohort infant death rate are the records of the same infants as the births in the denominator. Birth cohort infant death rates, like population crude death rates, show the true risk of dying, and also, like age-adjusted population rates, allow direct comparisons between counties.

- \* Death rate unreliable, relative standard error is greater than or equal to 23%.
- + Standard error indeterminate, death rate based on no (zero) deaths.
- Upper and lower limits at the 95% confidence level are not calculated for no (zero) deaths.

Counties were rank ordered first by increasing birth cohort death rate (calculated to 15 decimal places), second by decreasing size of the total number of live births. Infant mortality data by race/ethnicity is based on the mother's race/ethnicity reported on the birth record, and are grouped according to the latest methodology used by the State Data Center, Department of Finance to compile population estimates. For purposes of this report, rates with a relative standard error greater than or equal to 23% are considered "unreliable." The upper and lower limits of the birth cohort death rate at the 95% confidence level indicate the precision of the estimated death rate. The wider the interval, the less precise the death rate. The upper and lower limits define the range within which the death rate would probably occur in 95 out of 100 independent sets of data similar to the present set. (For additional information see the Technical Notes, pages 63 through 72.)

### **DATA SOURCES**

Department of Health Services: Birth Cohort-Perinatal Outcome Files, 1995-1997.

**TABLE 20E  
WHITE INFANT MORTALITY  
RANKED BY THREE-YEAR AVERAGE BIRTH COHORT INFANT DEATH RATE  
CALIFORNIA COUNTIES, 1995-1997**

| RANK ORDER  | COUNTY            | THREE-YEAR AVERAGE |                | BIRTH COHORT INFANT DEATH RATE | 95% CONFIDENCE LIMITS |            |
|---|-------------------|--------------------|----------------|--------------------------------|-----------------------|------------|
|   |                   | LIVE BIRTHS        | INFANT DEATHS  |                                | LOWER                 | UPPER      |
| <b>YEAR 2010 NATIONAL OBJECTIVE: NONE ESTABLISHED</b> |                   |                    |                |                                |                       |            |
| 1   | MONO              | 75.3               | 0.0            | 0.0 +                          | -                     | -          |
| 2   | SIERRA            | 15.0               | 0.0            | 0.0 +                          | -                     | -          |
| 3   | ALPINE            | 2.7                | 0.0            | 0.0 +                          | -                     | -          |
| 4   | SAN BENITO        | 295.7              | 0.7            | 2.3 *                          | 0.0                   | 7.7        |
| 5   | SAN FRANCISCO     | 2,651.0            | 7.3            | 2.8 *                          | 0.8                   | 4.8        |
| 6   | AMADOR            | 231.7              | 0.7            | 2.9 *                          | 0.0                   | 9.8        |
| 7   | MARIN             | 1,879.7            | 6.3            | 3.4 *                          | 0.7                   | 6.0        |
| 8   | NAPA              | 823.3              | 3.0            | 3.6 *                          | 0.0                   | 7.8        |
| 9   | SANTA BARBARA     | 2,215.0            | 8.3            | 3.8 *                          | 1.2                   | 6.3        |
| 10  | LASSEN            | 250.7              | 1.0            | 4.0 *                          | 0.0                   | 11.8       |
| 11  | ALAMEDA           | 7,321.7            | 30.3           | 4.1                            | 2.7                   | 5.6        |
| 12  | CONTRA COSTA      | 6,655.0            | 29.0           | 4.4                            | 2.8                   | 5.9        |
| 13  | EL DORADO         | 1,295.0            | 5.7            | 4.4 *                          | 0.8                   | 8.0        |
| 14  | SONOMA            | 3,579.0            | 15.7           | 4.4 *                          | 2.2                   | 6.5        |
| 15  | ORANGE            | 18,468.3           | 82.0           | 4.4                            | 3.5                   | 5.4        |
| 16  | SANTA CLARA       | 9,450.0            | 43.3           | 4.6                            | 3.2                   | 6.0        |
| 17  | SANTA CRUZ        | 1,667.7            | 7.7            | 4.6 *                          | 1.3                   | 7.9        |
| 18  | SAN DIEGO         | 18,889.3           | 87.7           | 4.6                            | 3.7                   | 5.6        |
| 19  | MONTEREY          | 1,889.3            | 9.3            | 4.9 *                          | 1.8                   | 8.1        |
| 20  | PLACER            | 2,207.0            | 11.0           | 5.0 *                          | 2.0                   | 7.9        |
| 21  | PLUMAS            | 133.7              | 0.7            | 5.0 *                          | 0.0                   | 17.0       |
| 22  | MADERA            | 662.7              | 3.3            | 5.0 *                          | 0.0                   | 10.4       |
| 23  | VENTURA           | 5,394.0            | 27.3           | 5.1                            | 3.2                   | 7.0        |
| 24  | SAN MATEO         | 4,202.3            | 21.3           | 5.1                            | 2.9                   | 7.2        |
| 25  | LAKE              | 454.3              | 2.3            | 5.1 *                          | 0.0                   | 11.7       |
| 26  | LOS ANGELES       | 33,021.3           | 172.7          | 5.2                            | 4.4                   | 6.0        |
| 27  | SOLANO            | 2,708.7            | 14.3           | 5.3 *                          | 2.6                   | 8.0        |
| 28  | TULARE            | 2,121.3            | 11.7           | 5.5 *                          | 2.3                   | 8.7        |
|   | <b>CALIFORNIA</b> | <b>188,680.7</b>   | <b>1,043.0</b> | <b>5.5</b>                     | <b>5.2</b>            | <b>5.9</b> |
| 29  | SAN LUIS OBISPO   | 1,739.3            | 9.7            | 5.6 *                          | 2.1                   | 9.1        |
| 30  | HUMBOLDT          | 1,190.7            | 6.7            | 5.6 *                          | 1.3                   | 9.8        |
| 31  | SUTTER            | 631.0              | 3.7            | 5.8 *                          | 0.0                   | 11.8       |
| 32  | GLENN             | 222.7              | 1.3            | 6.0 *                          | 0.0                   | 16.2       |
| 33  | MENDOCINO         | 658.7              | 4.0            | 6.1 *                          | 0.1                   | 12.0       |
| 34  | STANISLAUS        | 3,469.3            | 22.0           | 6.3                            | 3.7                   | 9.0        |
| 35  | IMPERIAL          | 312.3              | 2.0            | 6.4 *                          | 0.0                   | 15.3       |
| 36  | SHASTA            | 1,716.7            | 11.0           | 6.4 *                          | 2.6                   | 10.2       |
| 37  | RIVERSIDE         | 9,204.0            | 59.7           | 6.5                            | 4.8                   | 8.1        |
| 38  | TEHAMA            | 461.7              | 3.0            | 6.5 *                          | 0.0                   | 13.9       |
| 39  | YOLO              | 1,090.3            | 7.3            | 6.7 *                          | 1.9                   | 11.6       |
| 40  | CALAVERAS         | 296.7              | 2.0            | 6.7 *                          | 0.0                   | 16.1       |
| 41  | SACRAMENTO        | 9,483.0            | 65.0           | 6.9                            | 5.2                   | 8.5        |
| 42  | SAN BERNARDINO    | 10,799.3           | 81.0           | 7.5                            | 5.9                   | 9.1        |
| 43  | SAN JOAQUIN       | 3,476.0            | 26.7           | 7.7                            | 4.8                   | 10.6       |
| 44  | MARIPOSA          | 124.0              | 1.0            | 8.1 *                          | 0.0                   | 23.9       |
| 45  | NEVADA            | 700.0              | 5.7            | 8.1 *                          | 1.4                   | 14.8       |
| 46  | TUOLUMNE          | 406.3              | 3.3            | 8.2 *                          | 0.0                   | 17.0       |
| 47  | YUBA              | 685.3              | 5.7            | 8.3 *                          | 1.5                   | 15.1       |
| 48  | FRESNO            | 4,051.0            | 33.7           | 8.3                            | 5.5                   | 11.1       |
| 49  | KERN              | 4,624.7            | 39.0           | 8.4                            | 5.8                   | 11.1       |
| 50  | SISKIYOU          | 370.7              | 3.3            | 9.0 *                          | 0.0                   | 18.6       |
| 51  | TRINITY           | 110.0              | 1.0            | 9.1 *                          | 0.0                   | 26.9       |
| 52  | MERCED            | 1,196.0            | 11.3           | 9.5 *                          | 4.0                   | 15.0       |
| 53  | COLUSA            | 104.7              | 1.0            | 9.6 *                          | 0.0                   | 28.3       |
| 54  | BUTTE             | 1,741.0            | 16.7           | 9.6 *                          | 5.0                   | 14.2       |
| 55  | KINGS             | 815.0              | 8.0            | 9.8 *                          | 3.0                   | 16.6       |
| 56  | DEL NORTE         | 231.7              | 2.7            | 11.5 *                         | 0.0                   | 25.3       |
| 57  | INYO              | 130.7              | 1.7            | 12.8 *                         | 0.0                   | 32.1       |
| 58  | MODOC             | 77.3               | 1.3            | 17.2 *                         | 0.0                   | 46.5       |

## **TABLE 21: LOW BIRTHWEIGHT INFANTS, 1997-1999**

California Counties Ranked By Percentage of Three-Year Average Low Birthweight Infants

*The relative number of low birthweight infants for California was 6.2 per 100 live births, a percent equivalent to one in 16 live births. This percentage was based on a three-year average number of low birthweight infants of 32,118.7 and a three-year average total number of live births of 521,160.0 from 1997 to 1999.*

*Among counties with "reliable" percentages, the percent of low birthweight infants ranged from 7.3 in Yuba County to 4.4 in Humboldt and Tehama County, a difference in percentage by a factor of 1.7 to 1.*

*Altogether 14 counties (eight with reliable percentages), but not California as a whole, met the Year 2010 National Objective of 5.0 percent low birthweight infants.*

### **Notes:**

Low birthweight includes infants less than 2500 grams at birth. The average number of live births excludes those births of unknown birthweight.

- \* Percentage unreliable, relative standard error is greater than or equal to 23%.
- + Standard error indeterminate, percent based on no (zero) low birthweight infants.
- Upper and lower limits at the 95% confidence level are not calculated for no (zero) low birthweight infants.

Counties were rank ordered first by increasing percentage of low birthweight infants (calculated to 15 decimal places), second by decreasing size of the total number of live births. For purposes of this report, percentages with a relative standard error greater than or equal to 23% are considered "unreliable." The upper and lower limits of the percent of births at the 95% confidence level indicate the precision of the estimated percentage. The wider the interval, the less precise the percent. The upper and lower limits define the range within which the percentage would probably occur in 95 out of 100 independent sets of data similar to the present set. (For additional information see the Technical Notes, pages 63 through 72.)

### **DATA SOURCES**

Department of Health Services: Birth Statistical Master Files, 1997-1999.

**TABLE 21  
LOW BIRTHWEIGHT INFANTS  
RANKED BY THREE-YEAR AVERAGE LOW BIRTHWEIGHT PERCENTAGE  
CALIFORNIA COUNTIES, 1997-1999**

| RANK<br>ORDER                        | COUNTY          | 1997-1999 LIVE BIRTHS (AVERAGE) |                 |            | 95% CONFIDENCE LIMITS |            |
|--------------------------------------|-----------------|---------------------------------|-----------------|------------|-----------------------|------------|
|                                      |                 | TOTAL<br>NUMBER                 | LOW BIRTHWEIGHT |            | LOWER                 | UPPER      |
|                                      |                 |                                 | NUMBER          | PERCENT    |                       |            |
| 1                                    | ALPINE          | 11.3                            | 0.0             | 0.0 +      | -                     | -          |
| 2                                    | SIERRA          | 14.3                            | 0.3             | 2.1 *      | 0.0                   | 9.6        |
| 3                                    | PLUMAS          | 139.7                           | 3.0             | 2.1 *      | 0.0                   | 4.6        |
| 4                                    | LASSEN          | 301.7                           | 13.0            | 4.3 *      | 2.0                   | 6.7        |
| 5                                    | HUMBOLDT        | 1,462.3                         | 63.7            | 4.4        | 3.3                   | 5.4        |
| 6                                    | TEHAMA          | 637.3                           | 28.3            | 4.4        | 2.8                   | 6.1        |
| 7                                    | GLENN           | 397.7                           | 17.7            | 4.5 *      | 2.4                   | 6.5        |
| 8                                    | SAN BENITO      | 917.7                           | 42.3            | 4.6        | 3.2                   | 6.0        |
| 9                                    | MENDOCINO       | 1,039.7                         | 49.0            | 4.7        | 3.4                   | 6.0        |
| 10                                   | PLACER          | 2,744.7                         | 131.7           | 4.8        | 4.0                   | 5.6        |
| 11                                   | NAPA            | 1,489.7                         | 72.7            | 4.9        | 3.8                   | 6.0        |
| 12                                   | CALAVERAS       | 313.3                           | 15.3            | 4.9 *      | 2.4                   | 7.3        |
| 13                                   | BUTTE           | 2,258.7                         | 111.0           | 4.9        | 4.0                   | 5.8        |
| 14                                   | SAN LUIS OBISPO | 2,407.0                         | 119.7           | 5.0        | 4.1                   | 5.9        |
| <b>YEAR 2010 NATIONAL OBJECTIVE:</b> |                 |                                 |                 | <b>5.0</b> |                       |            |
| 15                                   | SHASTA          | 1,929.3                         | 99.0            | 5.1        | 4.1                   | 6.1        |
| 16                                   | MADERA          | 2,006.0                         | 103.7           | 5.2        | 4.2                   | 6.2        |
| 17                                   | SONOMA          | 5,433.7                         | 283.3           | 5.2        | 4.6                   | 5.8        |
| 18                                   | MARIN           | 2,623.3                         | 137.0           | 5.2        | 4.3                   | 6.1        |
| 19                                   | SANTA CRUZ      | 3,475.3                         | 183.3           | 5.3        | 4.5                   | 6.0        |
| 20                                   | INYO            | 193.7                           | 10.3            | 5.3 *      | 2.1                   | 8.6        |
| 21                                   | SISKIYOU        | 449.3                           | 24.0            | 5.3        | 3.2                   | 7.5        |
| 22                                   | DEL NORTE       | 312.7                           | 17.0            | 5.4 *      | 2.9                   | 8.0        |
| 23                                   | ORANGE          | 46,728.3                        | 2,545.7         | 5.4        | 5.2                   | 5.7        |
| 24                                   | NEVADA          | 774.3                           | 42.3            | 5.5        | 3.8                   | 7.1        |
| 25                                   | TULARE          | 6,861.7                         | 376.7           | 5.5        | 4.9                   | 6.0        |
| 26                                   | YOLO            | 2,132.0                         | 117.3           | 5.5        | 4.5                   | 6.5        |
| 27                                   | EL DORADO       | 1,660.0                         | 92.3            | 5.6        | 4.4                   | 6.7        |
| 28                                   | MONTEREY        | 6,749.7                         | 375.7           | 5.6        | 5.0                   | 6.1        |
| 29                                   | IMPERIAL        | 2,448.3                         | 137.0           | 5.6        | 4.7                   | 6.5        |
| 30                                   | LAKE            | 570.0                           | 32.0            | 5.6        | 3.7                   | 7.6        |
| 31                                   | VENTURA         | 11,433.7                        | 644.7           | 5.6        | 5.2                   | 6.1        |
| 32                                   | MODOC           | 82.3                            | 4.7             | 5.7 *      | 0.5                   | 10.9       |
| 33                                   | SANTA BARBARA   | 5,683.0                         | 328.0           | 5.8        | 5.1                   | 6.4        |
| 34                                   | TUOLUMNE        | 445.3                           | 26.0            | 5.8        | 3.6                   | 8.1        |
| 35                                   | COLUSA          | 318.7                           | 18.7            | 5.9 *      | 3.2                   | 8.5        |
| 36                                   | AMADOR          | 265.7                           | 15.7            | 5.9 *      | 3.0                   | 8.8        |
| 37                                   | SAN DIEGO       | 43,310.7                        | 2,561.3         | 5.9        | 5.7                   | 6.1        |
| 38                                   | KINGS           | 2,132.0                         | 126.3           | 5.9        | 4.9                   | 7.0        |
| 39                                   | MERCED          | 3,599.0                         | 216.3           | 6.0        | 5.2                   | 6.8        |
| 40                                   | SANTA CLARA     | 26,447.0                        | 1,594.3         | 6.0        | 5.7                   | 6.3        |
| 41                                   | KERN            | 11,389.3                        | 692.3           | 6.1        | 5.6                   | 6.5        |
| 42                                   | SAN MATEO       | 10,098.0                        | 621.0           | 6.1        | 5.7                   | 6.6        |
| 43                                   | RIVERSIDE       | 23,361.3                        | 1,440.0         | 6.2        | 5.8                   | 6.5        |
| 44                                   | SAN JOAQUIN     | 8,739.3                         | 538.7           | 6.2        | 5.6                   | 6.7        |
| <b>CALIFORNIA</b>                    |                 | <b>521,160.0</b>                | <b>32,118.7</b> | <b>6.2</b> | <b>6.1</b>            | <b>6.2</b> |
| 45                                   | SUTTER          | 1,165.0                         | 73.3            | 6.3        | 4.9                   | 7.7        |
| 46                                   | CONTRA COSTA    | 12,461.7                        | 789.3           | 6.3        | 5.9                   | 6.8        |
| 47                                   | STANISLAUS      | 6,944.0                         | 440.3           | 6.3        | 5.7                   | 6.9        |
| 48                                   | SAN BERNARDINO  | 28,320.0                        | 1,818.0         | 6.4        | 6.1                   | 6.7        |
| 49                                   | MONO            | 124.0                           | 8.0             | 6.5 *      | 2.0                   | 10.9       |
| 50                                   | FRESNO          | 14,165.3                        | 920.0           | 6.5        | 6.1                   | 6.9        |
| 51                                   | LOS ANGELES     | 158,929.0                       | 10,375.7        | 6.5        | 6.4                   | 6.7        |
| 52                                   | SOLANO          | 5,507.7                         | 361.3           | 6.6        | 5.9                   | 7.2        |
| 53                                   | SACRAMENTO      | 17,601.7                        | 1,185.0         | 6.7        | 6.3                   | 7.1        |
| 54                                   | MARIPOSA        | 132.0                           | 9.0             | 6.8 *      | 2.4                   | 11.3       |
| 55                                   | SAN FRANCISCO   | 8,157.3                         | 558.3           | 6.8        | 6.3                   | 7.4        |
| 56                                   | ALAMEDA         | 20,748.7                        | 1,426.7         | 6.9        | 6.5                   | 7.2        |
| 57                                   | TRINITY         | 103.7                           | 7.3             | 7.0 *      | 1.9                   | 12.1       |
| 58                                   | YUBA            | 1,012.0                         | 74.0            | 7.3        | 5.6                   | 9.0        |

**TABLE 22: BIRTHS TO ADOLESCENT MOTHERS, 15 TO 19 YEARS OLD,  
1997-1999**

California Counties Ranked By Three-Year Average Age-Specific Birth Rate

*The age-specific birth rate to adolescents, age 15 to 19, in California was 53.6 per 1,000 female population, a rate equivalent to approximately one birth for every 19 adolescent females. This rate was based on the 1997 to 1999 average of 58,189.7 births and a female population for the same age group of 1,084,781 as of July 1, 1998.*

*Among counties with "reliable" rates, the age-specific rate ranged from 83.3 in Tulare County to 15.6 in Marin County, a difference in rates by a factor of 5.3 to 1.*

*A Year 2010 National Objective for births to adolescents in the age group of 15 to 19 years old has not been established.*

**Notes:**

\* Age-specific rate unreliable, relative standard error is greater than or equal to 23%.

Counties were rank ordered first by increasing age-specific birth rate (calculated to 15 decimal places), second by decreasing size of population. For purposes of this report, rates with a relative standard error greater than or equal to 23% are considered "unreliable." The upper and lower limits of the age-specific birth rate at the 95% confidence level indicate the precision of the estimated birth rate. The wider the interval, the less precise the birth rate. The upper and lower limits define the range within which the birth rate would probably occur in 95 out of 100 independent sets of data similar to the present set. (For additional information see the Technical Notes, pages 63 through 72.)

**DATA SOURCES**

Department of Health Services: Birth Statistical Master Files, 1997-1999.

Department of Finance: 1998 Population Estimates with Age, Sex and Race/Ethnic Detail, October 2000.

**TABLE 22**  
**BIRTHS AMONG ADOLESCENT MOTHERS, 15 TO 19 YEARS OLD**  
**RANKED BY THREE-YEAR AVERAGE AGE-SPECIFIC BIRTH RATE**  
**CALIFORNIA COUNTIES, 1997-1999**

| RANK ORDER  | COUNTY            | 1998 FEMALE POPULATION 15-19 YRS OLD | 1997-1999 LIVE BIRTHS (AVERAGE) | AGE-SPECIFIC BIRTH RATE | 95% CONFIDENCE LIMITS |             |
|---|-------------------|--------------------------------------|---------------------------------|-------------------------|-----------------------|-------------|
|   |                   |                                      |                                 |                         | LOWER                 | UPPER       |
| <b>YEAR 2010 NATIONAL OBJECTIVE: NONE ESTABLISHED</b> |                   |                                      |                                 |                         |                       |             |
| 1   | SIERRA            | 144                                  | 1.7                             | 11.6 *                  | 0.0                   | 29.1        |
| 2   | MARIN             | 5,994                                | 93.7                            | 15.6                    | 12.5                  | 18.8        |
| 3   | PLUMAS            | 788                                  | 16.7                            | 21.2 *                  | 11.0                  | 31.3        |
| 4   | PLACER            | 8,239                                | 201.3                           | 24.4                    | 21.1                  | 27.8        |
| 5   | NEVADA            | 3,238                                | 79.7                            | 24.6                    | 19.2                  | 30.0        |
| 6   | ALPINE            | 40                                   | 1.0                             | 25.0 *                  | 0.0                   | 74.0        |
| 7   | CALAVERAS         | 1,373                                | 37.0                            | 26.9                    | 18.3                  | 35.6        |
| 8   | EL DORADO         | 5,533                                | 152.3                           | 27.5                    | 23.2                  | 31.9        |
| 9   | AMADOR            | 1,064                                | 30.3                            | 28.5                    | 18.4                  | 38.7        |
| 10  | SAN FRANCISCO     | 17,243                               | 520.0                           | 30.2                    | 27.6                  | 32.7        |
| 11  | SAN LUIS OBISPO   | 8,073                                | 245.0                           | 30.3                    | 26.5                  | 34.1        |
| 12  | MONO              | 307                                  | 9.7                             | 31.5 *                  | 11.6                  | 51.3        |
| 13  | SAN MATEO         | 20,017                               | 658.0                           | 32.9                    | 30.4                  | 35.4        |
| 14  | CONTRA COSTA      | 29,930                               | 1,012.3                         | 33.8                    | 31.7                  | 35.9        |
| 15  | NAPA              | 3,865                                | 131.3                           | 34.0                    | 28.2                  | 39.8        |
| 16  | TUOLUMNE          | 1,717                                | 58.7                            | 34.2                    | 25.4                  | 42.9        |
| 17  | SONOMA            | 14,601                               | 509.0                           | 34.9                    | 31.8                  | 37.9        |
| 18  | MODOC             | 380                                  | 13.3                            | 35.1 *                  | 16.3                  | 53.9        |
| 19  | MARIPOSA          | 513                                  | 19.3                            | 37.7                    | 20.9                  | 54.5        |
| 20  | YOLO              | 5,732                                | 217.3                           | 37.9                    | 32.9                  | 43.0        |
| 21  | ALAMEDA           | 42,841                               | 1,709.7                         | 39.9                    | 38.0                  | 41.8        |
| 22  | TRINITY           | 484                                  | 19.3                            | 39.9                    | 22.1                  | 57.8        |
| 23  | HUMBOLDT          | 4,538                                | 181.7                           | 40.0                    | 34.2                  | 45.9        |
| 24  | SANTA CLARA       | 49,883                               | 2,010.7                         | 40.3                    | 38.5                  | 42.1        |
| 25  | LASSEN            | 1,054                                | 43.0                            | 40.8                    | 28.6                  | 53.0        |
| 26  | VENTURA           | 25,391                               | 1,081.3                         | 42.6                    | 40.0                  | 45.1        |
| 27  | SANTA CRUZ        | 7,838                                | 336.3                           | 42.9                    | 38.3                  | 47.5        |
| 28  | SISKIYOU          | 1,716                                | 74.0                            | 43.1                    | 33.3                  | 52.9        |
| 29  | SOLANO            | 14,282                               | 633.7                           | 44.4                    | 40.9                  | 47.8        |
| 30  | MENDOCINO         | 3,225                                | 147.3                           | 45.7                    | 38.3                  | 53.1        |
| 31  | ORANGE            | 80,679                               | 3,772.7                         | 46.8                    | 45.3                  | 48.3        |
| 32  | BUTTE             | 6,829                                | 321.3                           | 47.1                    | 41.9                  | 52.2        |
| 33  | INYO              | 641                                  | 31.3                            | 48.9                    | 31.8                  | 66.0        |
| 34  | SAN DIEGO         | 85,315                               | 4,251.0                         | 49.8                    | 48.3                  | 51.3        |
| 35  | SHASTA            | 6,142                                | 308.0                           | 50.1                    | 44.5                  | 55.7        |
| 36  | SUTTER            | 2,795                                | 140.7                           | 50.3                    | 42.0                  | 58.6        |
| 37  | SACRAMENTO        | 40,599                               | 2,071.0                         | 51.0                    | 48.8                  | 53.2        |
| 38  | LAKE              | 1,891                                | 97.7                            | 51.6                    | 41.4                  | 61.9        |
| 39  | SANTA BARBARA     | 12,618                               | 665.3                           | 52.7                    | 48.7                  | 56.7        |
| 40  | GLENN             | 1,136                                | 60.7                            | 53.4                    | 40.0                  | 66.8        |
|   | <b>CALIFORNIA</b> | <b>1,084,781</b>                     | <b>58,189.7</b>                 | <b>53.6</b>             | <b>53.2</b>           | <b>54.1</b> |
| 41  | TEHAMA            | 2,035                                | 114.3                           | 56.2                    | 45.9                  | 66.5        |
| 42  | STANISLAUS        | 17,270                               | 986.7                           | 57.1                    | 53.6                  | 60.7        |
| 43  | COLUSA            | 755                                  | 43.7                            | 57.8                    | 40.7                  | 75.0        |
| 44  | LOS ANGELES       | 298,125                              | 17,865.3                        | 59.9                    | 59.0                  | 60.8        |
| 45  | DEL NORTE         | 1,045                                | 63.3                            | 60.6                    | 45.7                  | 75.5        |
| 46  | RIVERSIDE         | 52,170                               | 3,195.3                         | 61.2                    | 59.1                  | 63.4        |
| 47  | SAN BENITO        | 1,834                                | 112.7                           | 61.4                    | 50.1                  | 72.8        |
| 48  | SAN JOAQUIN       | 20,868                               | 1,299.3                         | 62.3                    | 58.9                  | 65.6        |
| 49  | IMPERIAL          | 6,205                                | 387.7                           | 62.5                    | 56.3                  | 68.7        |
| 50  | SAN BERNARDINO    | 62,674                               | 4,106.3                         | 65.5                    | 63.5                  | 67.5        |
| 51  | YUBA              | 2,357                                | 159.7                           | 67.7                    | 57.2                  | 78.2        |
| 52  | MERCED            | 8,668                                | 608.7                           | 70.2                    | 64.6                  | 75.8        |
| 53  | MONTEREY          | 12,451                               | 885.0                           | 71.1                    | 66.4                  | 75.8        |
| 54  | KERN              | 24,510                               | 1,934.7                         | 78.9                    | 75.4                  | 82.5        |
| 55  | FRESNO            | 31,037                               | 2,467.7                         | 79.5                    | 76.4                  | 82.6        |
| 56  | MADERA            | 4,383                                | 357.0                           | 81.5                    | 73.0                  | 89.9        |
| 57  | KINGS             | 4,524                                | 373.7                           | 82.6                    | 74.2                  | 91.0        |
| 58  | TULARE            | 15,182                               | 1,264.3                         | 83.3                    | 78.7                  | 87.9        |

**TABLE 23A: PRENATAL CARE NOT BEGUN DURING THE FIRST TRIMESTER OF PREGNANCY, 1997-1999**

California Counties Ranked By Percentage of Three-Year Average Late/No Prenatal Care

*The relative number of births to mothers with late or no prenatal care for California was 17.4 per 100 live births. This percentage was based on a three-year average number of births to mothers with late or no prenatal care of 89,426.7 and a three-year average total number of live births of 513,602.0 from 1997 to 1999.*

*Among counties with "reliable" percentages, the percent of births to mothers with late or no prenatal care ranged from 41.4 in Mendocino County to 11.1 in Ventura County, a difference in percentage by a factor of 3.7 to 1.*

*None of the 58 counties, irrespective of the "reliability" of their percentages, nor California as a whole, met the Year 2010 National Objective of not more than 10.0 percent of live births to mothers with late or no prenatal care.*

**Notes:**

The average number of live births excludes those births with unknown prenatal care.

\* Percentage unreliable, relative standard error is greater than or equal to 23%.

Counties were rank ordered first by increasing percentage of births to mothers with late or no prenatal care (calculated to 15 decimal places), second by decreasing size of the total number of live births. For purposes of this report, percentages with a relative standard error greater than or equal to 23% are considered "unreliable." The upper and lower limits of the percent of births at the 95% confidence level indicate the precision of the estimated percentage. The wider the interval, the less precise the percent. The upper and lower limits define the range within which the percentage would probably occur in 95 out of 100 independent sets of data similar to the present set. (For additional information see the Technical Notes, pages 63 through 72.)

**DATA SOURCES**

Department of Health Services: Birth Statistical Master Files, 1997-1999.

**TABLE 23A  
 PRENATAL CARE NOT BEGUN DURING THE FIRST TRIMESTER OF PREGNANCY  
 RANKED BY PERCENTAGE OF THREE-YEAR AVERAGE LATE / NO PRENATAL CARE  
 CALIFORNIA COUNTIES, 1997-1999**

| RANK ORDER        | COUNTY          | 1997-1999 LIVE BIRTHS (AVERAGE)      |                              |             | 95% CONFIDENCE LIMITS |             |  |
|-------------------|-----------------|--------------------------------------|------------------------------|-------------|-----------------------|-------------|--|
|                   |                 | TOTAL NUMBER                         | LATE/NO PRENATAL CARE NUMBER | PERCENT     | LOWER                 | UPPER       |  |
|                   |                 | <b>YEAR 2010 NATIONAL OBJECTIVE:</b> |                              |             | <b>10.0</b>           |             |  |
| 1                 | VENTURA         | 11,341.7                             | 1,256.7                      | 11.1        | 10.5                  | 11.7        |  |
| 2                 | ALAMEDA         | 20,426.3                             | 2,297.0                      | 11.2        | 10.8                  | 11.7        |  |
| 3                 | SONOMA          | 5,197.0                              | 613.3                        | 11.8        | 10.9                  | 12.7        |  |
| 4                 | CONTRA COSTA    | 12,265.7                             | 1,458.7                      | 11.9        | 11.3                  | 12.5        |  |
| 5                 | TUOLUMNE        | 444.7                                | 60.7                         | 13.6        | 10.2                  | 17.1        |  |
| 6                 | MARIN           | 2,594.0                              | 355.0                        | 13.7        | 12.3                  | 15.1        |  |
| 7                 | PLACER          | 2,714.0                              | 372.3                        | 13.7        | 12.3                  | 15.1        |  |
| 8                 | AMADOR          | 263.7                                | 36.3                         | 13.8        | 9.3                   | 18.3        |  |
| 9                 | SHASTA          | 1,924.3                              | 269.7                        | 14.0        | 12.3                  | 15.7        |  |
| 10                | SANTA CLARA     | 26,004.7                             | 3,656.3                      | 14.1        | 13.6                  | 14.5        |  |
| 11                | SAN FRANCISCO   | 8,116.7                              | 1,164.3                      | 14.3        | 13.5                  | 15.2        |  |
| 12                | ORANGE          | 46,482.7                             | 6,674.7                      | 14.4        | 14.0                  | 14.7        |  |
| 13                | SAN MATEO       | 10,078.0                             | 1,463.7                      | 14.5        | 13.8                  | 15.3        |  |
| 14                | EL DORADO       | 1,649.0                              | 244.3                        | 14.8        | 13.0                  | 16.7        |  |
| 15                | CALAVERAS       | 310.7                                | 47.0                         | 15.1        | 10.8                  | 19.5        |  |
| 16                | LOS ANGELES     | 156,894.7                            | 23,901.7                     | 15.2        | 15.0                  | 15.4        |  |
| 17                | SAN BENITO      | 908.7                                | 140.3                        | 15.4        | 12.9                  | 18.0        |  |
| 18                | SANTA CRUZ      | 3,431.7                              | 531.7                        | 15.5        | 14.2                  | 16.8        |  |
| 19                | PLUMAS          | 139.3                                | 21.7                         | 15.6        | 9.0                   | 22.1        |  |
| 20                | SAN LUIS OBISPO | 2,391.7                              | 408.0                        | 17.1        | 15.4                  | 18.7        |  |
| <b>CALIFORNIA</b> |                 | <b>513,602.0</b>                     | <b>89,426.7</b>              | <b>17.4</b> | <b>17.3</b>           | <b>17.5</b> |  |
| 21                | FRESNO          | 14,078.0                             | 2,467.7                      | 17.5        | 16.8                  | 18.2        |  |
| 22                | SISKIYOU        | 442.7                                | 82.7                         | 18.7        | 14.6                  | 22.7        |  |
| 23                | STANISLAUS      | 6,914.7                              | 1,326.0                      | 19.2        | 18.1                  | 20.2        |  |
| 24                | KERN            | 10,781.3                             | 2,071.7                      | 19.2        | 18.4                  | 20.0        |  |
| 25                | NEVADA          | 771.0                                | 149.3                        | 19.4        | 16.3                  | 22.5        |  |
| 26                | KINGS           | 2,125.3                              | 412.0                        | 19.4        | 17.5                  | 21.3        |  |
| 27                | TEHAMA          | 635.7                                | 124.7                        | 19.6        | 16.2                  | 23.1        |  |
| 28                | SAN DIEGO       | 42,655.7                             | 8,398.0                      | 19.7        | 19.3                  | 20.1        |  |
| 29                | MADERA          | 1,998.3                              | 400.7                        | 20.1        | 18.1                  | 22.0        |  |
| 30                | SANTA BARBARA   | 5,652.7                              | 1,138.7                      | 20.1        | 19.0                  | 21.3        |  |
| 31                | HUMBOLDT        | 1,441.0                              | 290.3                        | 20.1        | 17.8                  | 22.5        |  |
| 32                | LASSEN          | 300.3                                | 60.7                         | 20.2        | 15.1                  | 25.3        |  |
| 33                | MONTEREY        | 6,717.7                              | 1,426.3                      | 21.2        | 20.1                  | 22.3        |  |
| 34                | SACRAMENTO      | 17,338.7                             | 3,838.3                      | 22.1        | 21.4                  | 22.8        |  |
| 35                | DEL NORTE       | 311.7                                | 69.3                         | 22.2        | 17.0                  | 27.5        |  |
| 36                | RIVERSIDE       | 23,109.0                             | 5,190.0                      | 22.5        | 21.8                  | 23.1        |  |
| 37                | TRINITY         | 103.7                                | 23.7                         | 22.8        | 13.6                  | 32.0        |  |
| 38                | SAN BERNARDINO  | 27,834.3                             | 6,401.3                      | 23.0        | 22.4                  | 23.6        |  |
| 39                | NAPA            | 1,386.3                              | 324.7                        | 23.4        | 20.9                  | 26.0        |  |
| 40                | IMPERIAL        | 2,417.3                              | 622.7                        | 25.8        | 23.7                  | 27.8        |  |
| 41                | SOLANO          | 4,930.0                              | 1,279.3                      | 25.9        | 24.5                  | 27.4        |  |
| 42                | TULARE          | 6,646.0                              | 1,772.3                      | 26.7        | 25.4                  | 27.9        |  |
| 43                | MONO            | 123.7                                | 33.0                         | 26.7        | 17.6                  | 35.8        |  |
| 44                | YOLO            | 2,104.0                              | 565.3                        | 26.9        | 24.7                  | 29.1        |  |
| 45                | MODOC           | 81.7                                 | 22.0                         | 26.9        | 15.7                  | 38.2        |  |
| 46                | SAN JOAQUIN     | 8,508.7                              | 2,346.3                      | 27.6        | 26.5                  | 28.7        |  |
| 47                | INYO            | 193.3                                | 54.7                         | 28.3        | 20.8                  | 35.8        |  |
| 48                | BUTTE           | 2,253.7                              | 643.7                        | 28.6        | 26.4                  | 30.8        |  |
| 49                | GLENN           | 396.3                                | 114.3                        | 28.8        | 23.6                  | 34.1        |  |
| 50                | MARIPOSA        | 129.7                                | 37.7                         | 29.0        | 19.8                  | 38.3        |  |
| 51                | LAKE            | 563.3                                | 172.3                        | 30.6        | 26.0                  | 35.2        |  |
| 52                | SIERRA          | 14.3                                 | 4.7                          | 32.6 *      | 3.0                   | 62.1        |  |
| 53                | SUTTER          | 1,162.7                              | 388.7                        | 33.4        | 30.1                  | 36.8        |  |
| 54                | MERCED          | 3,534.7                              | 1,266.0                      | 35.8        | 33.8                  | 37.8        |  |
| 55                | YUBA            | 1,010.0                              | 383.3                        | 38.0        | 34.2                  | 41.8        |  |
| 56                | ALPINE          | 11.3                                 | 4.3                          | 38.2 *      | 2.2                   | 74.2        |  |
| 57                | COLUSA          | 318.0                                | 122.0                        | 38.4        | 31.6                  | 45.2        |  |
| 58                | MENDOCINO       | 1,026.3                              | 424.7                        | 41.4        | 37.4                  | 45.3        |  |

**TABLE 23B: "ADEQUATE/ADEQUATE PLUS" PRENATAL CARE  
(ADEQUACY OF PRENATAL CARE UTILIZATION INDEX),  
1997-1999**

California Counties Ranked By Percentage of Three-Year Average  
"Adequate/Adequate Plus" Prenatal Care

*The relative number of births to mothers with "adequate/adequate plus" prenatal care for California was 75.0 per 100 live births. This percentage was based on a three-year average number of births to mothers with "adequate/adequate plus" prenatal care of 378,360.0 and a three-year average total number of live births of 504,324.3 from 1997 to 1999.*

*Among counties with "reliable" percentages, the percent of births to mothers with "adequate/adequate plus" prenatal care ranged from 83.8 in San Luis Obispo County to 54.8 in Trinity County, a difference in percentage by a factor of 1.5 to 1.*

*None of the 58 counties, irrespective of the "reliability" of their percentages, or California as a whole, met the Year 2010 National Objective of at least 90.0 percent of all live births to mothers who received "adequate/adequate plus" prenatal care according to the Adequacy of Prenatal Care Utilization Index.*

**Notes:**

The average total number of live births excludes "unknown" adequacy of prenatal care. The definition of "adequate/adequate plus" prenatal care includes mothers who initiated prenatal care by the fourth month of pregnancy and had greater than or equal to 80 percent of the expected number of prenatal care visits recommended by the American College of Obstetricians and Gynecologists.

\* Percentage unreliable, relative standard error is greater than or equal to 23%.

Counties were rank ordered first by decreasing percentage of births to mothers with "adequate/adequate plus" prenatal care (calculated to 15 decimal places), second by decreasing size of the total number of live births. For purposes of this report, percentages with a relative standard error greater than or equal to 23% are considered "unreliable." The upper and lower limits of the percent of births at the 95% confidence level indicate the precision of the estimated percentage. The wider the interval, the less precise the percent. The upper and lower limits define the range within which the percentage would probably occur in 95 out of 100 independent sets of data similar to the present set. (For additional information see the Technical Notes, pages 63 through 72.)

**DATA SOURCES**

Department of Health Services: Birth Statistical Master Files, 1996-1998.

**TABLE 23B**  
**"ADEQUATE/ADEQUATE PLUS" PRENATAL CARE (ADEQUACY OF PRENATAL CARE UTILIZATION INDEX)**  
**RANKED BY PERCENTAGE OF THREE-YEAR AVERAGE "ADEQUATE/ADEQUATE PLUS" PRENATAL CARE**  
**CALIFORNIA COUNTIES, 1997-1999**

| RANK ORDER        | COUNTY          | 1997-1999 LIVE BIRTHS (AVERAGE)      |                             |             | 95% CONFIDENCE LIMITS |             |
|-------------------|-----------------|--------------------------------------|-----------------------------|-------------|-----------------------|-------------|
|                   |                 | TOTAL NUMBER                         | ADEQUATE/ADEQUATE PLUS CARE |             | LOWER                 | UPPER       |
|                   |                 |                                      | NUMBER                      | PERCENT     |                       |             |
|                   |                 | <b>YEAR 2010 NATIONAL OBJECTIVE:</b> |                             |             | <b>90.0</b>           |             |
| 1                 | SAN LUIS OBISPO | 2,375.7                              | 1,991.0                     | 83.8        | 80.1                  | 87.5        |
| 2                 | VENTURA         | 11,260.0                             | 9,428.3                     | 83.7        | 82.0                  | 85.4        |
| 3                 | FRESNO          | 13,914.3                             | 11,450.0                    | 82.3        | 80.8                  | 83.8        |
| 4                 | PLACER          | 2,595.0                              | 2,105.0                     | 81.1        | 77.7                  | 84.6        |
| 5                 | TUOLUMNE        | 444.3                                | 359.7                       | 80.9        | 72.6                  | 89.3        |
| 6                 | LASSEN          | 300.0                                | 242.7                       | 80.9        | 70.7                  | 91.1        |
| 7                 | EL DORADO       | 1,615.0                              | 1,295.7                     | 80.2        | 75.9                  | 84.6        |
| 8                 | ALAMEDA         | 20,123.3                             | 16,061.7                    | 79.8        | 78.6                  | 81.1        |
| 9                 | MARIN           | 2,573.0                              | 2,047.3                     | 79.6        | 76.1                  | 83.0        |
| 10                | SAN MATEO       | 10,057.7                             | 7,944.3                     | 79.0        | 77.3                  | 80.7        |
| 11                | SAN FRANCISCO   | 7,999.7                              | 6,309.3                     | 78.9        | 76.9                  | 80.8        |
| 12                | MONO            | 123.3                                | 96.7                        | 78.4        | 62.8                  | 94.0        |
| 13                | ORANGE          | 45,858.7                             | 35,883.7                    | 78.2        | 77.4                  | 79.1        |
| 14                | DEL NORTE       | 309.7                                | 239.7                       | 77.4        | 67.6                  | 87.2        |
| 15                | LOS ANGELES     | 152,806.0                            | 118,220.0                   | 77.4        | 76.9                  | 77.8        |
| 16                | KINGS           | 2,122.7                              | 1,637.7                     | 77.2        | 73.4                  | 80.9        |
| 17                | AMADOR          | 261.7                                | 200.7                       | 76.7        | 66.1                  | 87.3        |
| 18                | TEHAMA          | 632.0                                | 480.0                       | 75.9        | 69.2                  | 82.7        |
| 19                | CONTRA COSTA    | 12,147.0                             | 9,204.3                     | 75.8        | 74.2                  | 77.3        |
| 20                | SANTA BARBARA   | 5,629.7                              | 4,256.7                     | 75.6        | 73.3                  | 77.9        |
| 21                | GLENN           | 394.7                                | 297.3                       | 75.3        | 66.8                  | 83.9        |
| <b>CALIFORNIA</b> |                 | <b>504,324.3</b>                     | <b>378,360.0</b>            | <b>75.0</b> | <b>74.8</b>           | <b>75.3</b> |
| 22                | INYO            | 192.7                                | 144.0                       | 74.7        | 62.5                  | 86.9        |
| 23                | SONOMA          | 4,886.3                              | 3,610.3                     | 73.9        | 71.5                  | 76.3        |
| 24                | CALAVERAS       | 310.0                                | 229.0                       | 73.9        | 64.3                  | 83.4        |
| 25                | SACRAMENTO      | 16,725.0                             | 12,336.3                    | 73.8        | 72.5                  | 75.1        |
| 26                | ALPINE          | 11.3                                 | 8.3                         | 73.5 *      | 23.6                  | 100.0       |
| 27                | SANTA CRUZ      | 3,370.0                              | 2,469.7                     | 73.3        | 70.4                  | 76.2        |
| 28                | SANTA CLARA     | 25,960.7                             | 19,014.0                    | 73.2        | 72.2                  | 74.3        |
| 29                | BUTTE           | 2,243.7                              | 1,642.0                     | 73.2        | 69.6                  | 76.7        |
| 30                | PLUMAS          | 139.3                                | 101.0                       | 72.5        | 58.4                  | 86.6        |
| 31                | KERN            | 9,980.0                              | 7,205.7                     | 72.2        | 70.5                  | 73.9        |
| 32                | SAN DIEGO       | 42,382.0                             | 30,592.0                    | 72.2        | 71.4                  | 73.0        |
| 33                | SISKIYOU        | 433.7                                | 313.0                       | 72.2        | 64.2                  | 80.2        |
| 34                | MONTEREY        | 6,695.3                              | 4,830.7                     | 72.1        | 70.1                  | 74.2        |
| 35                | MADERA          | 1,984.3                              | 1,424.3                     | 71.8        | 68.1                  | 75.5        |
| 36                | SAN BERNARDINO  | 27,112.7                             | 19,138.7                    | 70.6        | 69.6                  | 71.6        |
| 37                | TULARE          | 6,626.3                              | 4,664.3                     | 70.4        | 68.4                  | 72.4        |
| 38                | SIERRA          | 14.3                                 | 10.0                        | 69.8 *      | 26.5                  | 100.0       |
| 39                | NAPA            | 1,375.0                              | 958.7                       | 69.7        | 65.3                  | 74.1        |
| 40                | SHASTA          | 1,919.0                              | 1,333.7                     | 69.5        | 65.8                  | 73.2        |
| 41                | NEVADA          | 764.7                                | 530.0                       | 69.3        | 63.4                  | 75.2        |
| 42                | RIVERSIDE       | 22,974.7                             | 15,836.0                    | 68.9        | 67.9                  | 70.0        |
| 43                | SUTTER          | 1,157.3                              | 775.7                       | 67.0        | 62.3                  | 71.7        |
| 44                | IMPERIAL        | 2,380.0                              | 1,577.0                     | 66.3        | 63.0                  | 69.5        |
| 45                | YOLO            | 2,065.7                              | 1,366.0                     | 66.1        | 62.6                  | 69.6        |
| 46                | SOLANO          | 4,887.7                              | 3,212.0                     | 65.7        | 63.4                  | 68.0        |
| 47                | STANISLAUS      | 6,880.0                              | 4,486.0                     | 65.2        | 63.3                  | 67.1        |
| 48                | MODOC           | 80.3                                 | 52.3                        | 65.1        | 47.5                  | 82.8        |
| 49                | SAN JOAQUIN     | 8,251.0                              | 5,299.3                     | 64.2        | 62.5                  | 66.0        |
| 50                | MARIPOSA        | 129.7                                | 82.0                        | 63.2        | 49.6                  | 76.9        |
| 51                | LAKE            | 558.3                                | 348.0                       | 62.3        | 55.8                  | 68.9        |
| 52                | YUBA            | 1,001.0                              | 622.7                       | 62.2        | 57.3                  | 67.1        |
| 53                | MERCED          | 3,525.7                              | 2,165.7                     | 61.4        | 58.8                  | 64.0        |
| 54                | COLUSA          | 317.3                                | 193.7                       | 61.0        | 52.4                  | 69.6        |
| 55                | MENDOCINO       | 1,018.7                              | 621.0                       | 61.0        | 56.2                  | 65.8        |
| 56                | HUMBOLDT        | 1,416.0                              | 844.3                       | 59.6        | 55.6                  | 63.7        |
| 57                | SAN BENITO      | 908.0                                | 514.3                       | 56.6        | 51.7                  | 61.5        |
| 58                | TRINITY         | 103.3                                | 56.7                        | 54.8        | 40.6                  | 69.1        |

## **TABLE 24: BREASTFEEDING INITIATION DURING EARLY POSTPARTUM, 1997-1999**

*The relative number of breastfed infants for California was 79.9 per 100 hospital births. This percentage was based on the 398,169.3 breastfed infants among 498,198.7 hospital births, the three-year average from 1997 to 1999.*

*Among counties with "reliable" percentages, the percent of breastfed infants ranged from 92.9 in Santa Cruz County to 68.4 in Yuba County, a difference in percentage by a factor of 1.4 to 1.*

*Altogether 48 counties (46 with reliable percentages) and California as a whole met the Year 2010 National Objective of at least 75.0 percent of all infants are breastfed during the early postpartum period.*

### **Notes:**

Breastfeeding initiation includes: exclusively breastfed infants; and combination breastfed and formula fed infants. The data include only births occurring in a California hospital. The average number of total hospital births excludes those of unknown feeding type.

\* Percentage unreliable, relative standard error is greater than or equal to 23%.

Counties were rank ordered first by decreasing percentage of breastfed infants (calculated to 15 decimal places), second by decreasing size of the total number of hospital births. For purposes of this report, percentages with a relative standard error greater than or equal to 23% are considered "unreliable." The upper and lower limits of the percent of breastfed infants at the 95% confidence level indicate the precision of the estimated percentage. The wider the interval, the less precise the percent. The upper and lower limits define the range within which the percentage would probably occur in 95 out of 100 independent sets of data similar to the present set. (For additional information see the Technical Notes, pages 63 through 72.)

### **DATA SOURCES**

Department of Health Services: Genetic Disease Branch, Newborn Screening Program.

**TABLE 24  
BREASTFEEDING INITIATION DURING EARLY POSTPARTUM  
RANKED BY THREE-YEAR AVERAGE BREASTFEEDING INITIATION PERCENTAGE  
CALIFORNIA COUNTIES, 1997-1999**

| RANK<br>ORDER | COUNTY                               | 1997-1999 HOSPITAL BIRTHS (AVERAGE) |                  |             | 95% CONFIDENCE LIMITS |             |
|---------------|--------------------------------------|-------------------------------------|------------------|-------------|-----------------------|-------------|
|               |                                      | TOTAL<br>NUMBER                     | BREASTFED        |             | LOWER                 | UPPER       |
|               |                                      |                                     | NUMBER           | PERCENT     |                       |             |
| 1             | SANTA CRUZ                           | 3,440.7                             | 3,198.0          | 92.9        | 89.7                  | 96.2        |
| 2             | NEVADA                               | 753.3                               | 695.7            | 92.3        | 85.5                  | 99.2        |
| 3             | MARIN                                | 2,642.0                             | 2,437.7          | 92.3        | 88.6                  | 95.9        |
| 4             | SIERRA                               | 12.7                                | 11.7             | 92.1 *      | 39.3                  | 100.0       |
| 5             | TRINITY                              | 102.3                               | 94.0             | 91.9        | 73.3                  | 100.0       |
| 6             | SAN LUIS OBISPO                      | 2,367.3                             | 2,171.7          | 91.7        | 87.9                  | 95.6        |
| 7             | MONTEREY                             | 6,304.3                             | 5,733.7          | 90.9        | 88.6                  | 93.3        |
| 8             | SAN MATEO                            | 9,141.7                             | 8,291.0          | 90.7        | 88.7                  | 92.6        |
| 9             | SONOMA                               | 5,124.7                             | 4,643.3          | 90.6        | 88.0                  | 93.2        |
| 10            | LASSEN                               | 261.0                               | 236.3            | 90.5        | 79.0                  | 100.0       |
| 11            | INYO                                 | 293.7                               | 265.0            | 90.2        | 79.4                  | 100.0       |
| 12            | NAPA                                 | 1,376.7                             | 1,241.3          | 90.2        | 85.2                  | 95.2        |
| 13            | PLACER                               | 2,334.7                             | 2,074.7          | 88.9        | 85.0                  | 92.7        |
| 14            | EL DORADO                            | 1,598.3                             | 1,418.7          | 88.8        | 84.1                  | 93.4        |
| 15            | HUMBOLDT                             | 1,418.3                             | 1,258.7          | 88.7        | 83.8                  | 93.6        |
| 16            | SANTA CLARA                          | 26,544.0                            | 23,427.0         | 88.3        | 87.1                  | 89.4        |
| 17            | SANTA BARBARA                        | 5,474.0                             | 4,827.0          | 88.2        | 85.7                  | 90.7        |
| 18            | PLUMAS                               | 129.0                               | 113.7            | 88.1        | 71.9                  | 100.0       |
| 19            | MENDOCINO                            | 1,020.0                             | 896.0            | 87.8        | 82.1                  | 93.6        |
| 20            | SISKIYOU                             | 319.0                               | 280.0            | 87.8        | 77.5                  | 98.1        |
| 21            | DEL NORTE                            | 322.0                               | 282.3            | 87.7        | 77.5                  | 97.9        |
| 22            | GLENN                                | 262.0                               | 229.7            | 87.7        | 76.3                  | 99.0        |
| 23            | SHASTA                               | 1,852.7                             | 1,609.3          | 86.9        | 82.6                  | 91.1        |
| 24            | TUOLUMNE                             | 495.3                               | 429.7            | 86.7        | 78.5                  | 94.9        |
| 25            | YOLO                                 | 2,066.0                             | 1,786.3          | 86.5        | 82.5                  | 90.5        |
| 26            | VENTURA                              | 10,683.0                            | 9,217.0          | 86.3        | 84.5                  | 88.0        |
| 27            | ALPINE                               | 12.0                                | 10.3             | 86.1 *      | 33.6                  | 100.0       |
| 28            | MODOC                                | 57.3                                | 49.3             | 86.0        | 62.0                  | 100.0       |
| 29            | CONTRA COSTA                         | 12,174.0                            | 10,443.0         | 85.8        | 84.1                  | 87.4        |
| 30            | SAN DIEGO                            | 37,599.0                            | 32,227.3         | 85.7        | 84.8                  | 86.6        |
| 31            | AMADOR                               | 268.0                               | 229.0            | 85.4        | 74.4                  | 96.5        |
| 32            | SAN BENITO                           | 837.3                               | 714.0            | 85.3        | 79.0                  | 91.5        |
| 33            | MARIPOSA                             | 119.0                               | 101.3            | 85.2        | 68.6                  | 100.0       |
| 34            | SAN FRANCISCO                        | 8,227.3                             | 6,896.3          | 83.8        | 81.8                  | 85.8        |
| 35            | BUTTE                                | 2,270.3                             | 1,901.7          | 83.8        | 80.0                  | 87.5        |
| 36            | ALAMEDA                              | 20,046.0                            | 16,727.3         | 83.4        | 82.2                  | 84.7        |
| 37            | MONO                                 | 45.3                                | 37.7             | 83.1        | 56.6                  | 100.0       |
| 38            | TEHAMA                               | 627.0                               | 517.7            | 82.6        | 75.5                  | 89.7        |
| 39            | CALAVERAS                            | 248.7                               | 204.7            | 82.3        | 71.0                  | 93.6        |
| 40            | LAKE                                 | 542.3                               | 441.3            | 81.4        | 73.8                  | 89.0        |
| 41            | ORANGE                               | 45,331.7                            | 36,612.0         | 80.8        | 79.9                  | 81.6        |
| 42            | SOLANO                               | 4,877.7                             | 3,916.7          | 80.3        | 77.8                  | 82.8        |
|               | <b>CALIFORNIA</b>                    | <b>498,198.7</b>                    | <b>398,169.3</b> | <b>79.9</b> | <b>79.7</b>           | <b>80.2</b> |
| 43            | COLUSA                               | 305.7                               | 244.0            | 79.8        | 69.8                  | 89.8        |
| 44            | SUTTER                               | 1,192.3                             | 934.3            | 78.4        | 73.3                  | 83.4        |
| 45            | SACRAMENTO                           | 16,691.0                            | 13,020.0         | 78.0        | 76.7                  | 79.3        |
| 46            | SAN JOAQUIN                          | 8,391.0                             | 6,512.3          | 77.6        | 75.7                  | 79.5        |
| 47            | TULARE                               | 6,379.3                             | 4,928.7          | 77.3        | 75.1                  | 79.4        |
| 48            | LOS ANGELES                          | 155,361.0                           | 118,840.3        | 76.5        | 76.1                  | 76.9        |
| 49            | FRESNO                               | 13,596.3                            | 10,186.7         | 74.9        | 73.5                  | 76.4        |
| 50            | MADERA                               | 1,987.7                             | 1,489.0          | 74.9        | 71.1                  | 78.7        |
|               | <b>YEAR 2010 NATIONAL OBJECTIVE:</b> |                                     |                  | <b>75.0</b> |                       |             |
| 51            | STANISLAUS                           | 6,780.3                             | 5,034.3          | 74.2        | 72.2                  | 76.3        |
| 52            | MERCED                               | 3,339.7                             | 2,470.3          | 74.0        | 71.1                  | 76.9        |
| 53            | RIVERSIDE                            | 22,056.0                            | 16,213.7         | 73.5        | 72.4                  | 74.6        |
| 54            | IMPERIAL                             | 2,409.3                             | 1,770.0          | 73.5        | 70.0                  | 76.9        |
| 55            | KERN                                 | 10,674.7                            | 7,792.3          | 73.0        | 71.4                  | 74.6        |
| 56            | SAN BERNARDINO                       | 26,690.0                            | 18,941.7         | 71.0        | 70.0                  | 72.0        |
| 57            | KINGS                                | 1,865.7                             | 1,306.7          | 70.0        | 66.2                  | 73.8        |
| 58            | YUBA                                 | 857.0                               | 586.0            | 68.4        | 62.8                  | 73.9        |

## **TABLE 25: PERSONS UNDER 18 BELOW POVERTY, 1990 CENSUS**

California Counties Ranked By Percentage of Census Population Under 18 Below Poverty

*The relative number of persons under 18 who were in poverty in California was 18.2 per 100 population under 18. This percentage was based on the 1990 Census.*

*All 58 counties had "reliable" percentages of persons under 18 years of age below poverty. The percents ranged from 33.2 in Tulare County to 6.3 in Marin County, a difference in percentage by a factor of 5.3 to 1.*

*A Year 2010 National Objective for the percentage of persons under 18 years of age who are below poverty has not been established.*

### **Notes:**

Percentages are based on the population under 18 years of age for which the poverty status was determined and excludes persons of unknown poverty status.

Counties were rank ordered first by increasing percentage of persons under 18 in poverty (calculated to 15 decimal places), second by decreasing size of the same age group population. The upper and lower limits of the percent of persons under 18 years of age in poverty at the 95% confidence level indicate the precision of the estimated percentage. The wider the interval, the less precise the percentage. The upper and lower limits define the range within which the estimated percentage would probably occur in 95 out of 100 independent sets of data similar to the present set. (For additional information see the Technical Notes, pages 63 through 72.)

### **DATA SOURCES**

Department of Finance: State Census Data Center, 1990 Census, Summary Tape File P117/118.

**TABLE 25**  
**PERSONS UNDER 18 BELOW POVERTY**  
**RANKED BY PERCENTAGE OF CENSUS POPULATION UNDER 18 BELOW POVERTY**  
**CALIFORNIA COUNTIES, 1990**

| RANK<br>ORDER   | COUNTY            | UNDER 18         |                  |             | 95% CONFIDENCE LIMITS |             |
|---|-------------------|------------------|------------------|-------------|-----------------------|-------------|
|   |                   | POPULATION       | IN POVERTY       |             | LOWER                 | UPPER       |
|   |                   |                  | NUMBER           | PERCENT     |                       |             |
| <b>YEAR 2010 NATIONAL OBJECTIVE: NONE ESTABLISHED</b> |                   |                  |                  |             |                       |             |
| 1   | MARIN             | 43,099           | 2,728            | 6.3         | 6.1                   | 6.6         |
| 2   | SAN MATEO         | 138,532          | 11,207           | 8.1         | 7.9                   | 8.2         |
| 3   | PLACER            | 44,502           | 4,064            | 9.1         | 8.9                   | 9.4         |
| 4   | SIERRA            | 710              | 67               | 9.4         | 7.2                   | 11.7        |
| 5   | SONOMA            | 93,032           | 8,989            | 9.7         | 9.5                   | 9.9         |
| 6   | NAPA              | 25,234           | 2,442            | 9.7         | 9.3                   | 10.1        |
| 7   | EL DORADO         | 32,426           | 3,281            | 10.1        | 9.8                   | 10.5        |
| 8   | VENTURA           | 178,737          | 18,305           | 10.2        | 10.1                  | 10.4        |
| 9   | NEVADA            | 18,427           | 1,915            | 10.4        | 9.9                   | 10.9        |
| 10  | SANTA CLARA       | 349,495          | 36,759           | 10.5        | 10.4                  | 10.6        |
| 11  | SOLANO            | 95,907           | 10,153           | 10.6        | 10.4                  | 10.8        |
| 12  | CONTRA COSTA      | 197,901          | 21,904           | 11.1        | 10.9                  | 11.2        |
| 13  | MONO              | 2,360            | 264              | 11.2        | 9.8                   | 12.5        |
| 14  | ORANGE            | 573,127          | 65,463           | 11.4        | 11.3                  | 11.5        |
| 15  | SANTA CRUZ        | 52,656           | 6,280            | 11.9        | 11.6                  | 12.2        |
| 16  | AMADOR            | 5,506            | 676              | 12.3        | 11.4                  | 13.2        |
| 17  | SAN BENITO        | 11,265           | 1,453            | 12.9        | 12.2                  | 13.6        |
| 18  | SAN LUIS OBISPO   | 46,527           | 6,232            | 13.4        | 13.1                  | 13.7        |
| 19  | TUOLUMNE          | 10,656           | 1,435            | 13.5        | 12.8                  | 14.2        |
| 20  | MARIPOSA          | 3,130            | 455              | 14.5        | 13.2                  | 15.9        |
| 21  | ALAMEDA           | 297,681          | 45,747           | 15.4        | 15.2                  | 15.5        |
| 22  | SANTA BARBARA     | 83,327           | 12,829           | 15.4        | 15.1                  | 15.7        |
| 23  | RIVERSIDE         | 326,377          | 51,608           | 15.8        | 15.7                  | 15.9        |
| 24  | CALAVERAS         | 7,693            | 1,222            | 15.9        | 15.0                  | 16.8        |
| 25  | SAN DIEGO         | 596,807          | 96,720           | 16.2        | 16.1                  | 16.3        |
| 26  | MONTEREY          | 95,470           | 16,255           | 17.0        | 16.8                  | 17.3        |
| 27  | INYO              | 4,395            | 753              | 17.1        | 15.9                  | 18.4        |
| 28  | COLUSA            | 4,948            | 858              | 17.3        | 16.2                  | 18.5        |
| 29  | YOLO              | 32,928           | 5,774            | 17.5        | 17.1                  | 18.0        |
| 30  | LASSEN            | 6,641            | 1,176            | 17.7        | 16.7                  | 18.7        |
| 31  | SAN BERNARDINO    | 429,107          | 76,768           | 17.9        | 17.8                  | 18.0        |
|   | <b>CALIFORNIA</b> | <b>7,563,329</b> | <b>1,380,275</b> | <b>18.2</b> | <b>18.2</b>           | <b>18.3</b> |
| 32  | SAN FRANCISCO     | 114,074          | 21,228           | 18.6        | 18.4                  | 18.9        |
| 33  | PLUMAS            | 4,971            | 976              | 19.6        | 18.4                  | 20.9        |
| 34  | SACRAMENTO        | 268,085          | 53,348           | 19.9        | 19.7                  | 20.1        |
| 35  | SHASTA            | 38,939           | 8,030            | 20.6        | 20.2                  | 21.1        |
| 36  | MENDOCINO         | 21,267           | 4,468            | 21.0        | 20.4                  | 21.6        |
| 37  | MODOC             | 2,550            | 536              | 21.0        | 19.2                  | 22.8        |
| 38  | STANISLAUS        | 110,597          | 23,353           | 21.1        | 20.8                  | 21.4        |
| 39  | SISKIYOU          | 11,358           | 2,413            | 21.2        | 20.4                  | 22.1        |
| 40  | LOS ANGELES       | 2,268,176        | 496,504          | 21.9        | 21.8                  | 22.0        |
| 41  | LAKE              | 11,798           | 2,729            | 23.1        | 22.3                  | 24.0        |
| 42  | HUMBOLDT          | 29,905           | 6,918            | 23.1        | 22.6                  | 23.7        |
| 43  | SUTTER            | 18,003           | 4,195            | 23.3        | 22.6                  | 24.0        |
| 44  | SAN JOAQUIN       | 138,154          | 32,725           | 23.7        | 23.4                  | 23.9        |
| 45  | BUTTE             | 41,735           | 10,142           | 24.3        | 23.8                  | 24.8        |
| 46  | TEHAMA            | 12,881           | 3,132            | 24.3        | 23.5                  | 25.2        |
| 47  | KERN              | 167,206          | 41,417           | 24.8        | 24.5                  | 25.0        |
| 48  | DEL NORTE         | 6,138            | 1,528            | 24.9        | 23.6                  | 26.1        |
| 49  | MADERA            | 26,808           | 6,817            | 25.4        | 24.8                  | 26.0        |
| 50  | GLENN             | 7,368            | 1,939            | 26.3        | 25.1                  | 27.5        |
| 51  | KINGS             | 30,207           | 8,146            | 27.0        | 26.4                  | 27.6        |
| 52  | TRINITY           | 3,416            | 939              | 27.5        | 25.7                  | 29.2        |
| 53  | MERCED            | 59,438           | 17,853           | 30.0        | 29.6                  | 30.5        |
| 54  | YUBA              | 17,828           | 5,369            | 30.1        | 29.3                  | 30.9        |
| 55  | IMPERIAL          | 37,254           | 11,576           | 31.1        | 30.5                  | 31.6        |
| 56  | FRESNO            | 204,757          | 66,416           | 32.4        | 32.2                  | 32.7        |
| 57  | ALPINE            | 271              | 89               | 32.8        | 26.0                  | 39.7        |
| 58  | TULARE            | 101,542          | 33,707           | 33.2        | 32.8                  | 33.5        |

**TABLE 26  
A COMPARISON OF THREE-YEAR AVERAGE RATES AND PERCENTAGES  
AMONG SELECTED HEALTH STATUS INDICATORS  
CALIFORNIA COUNTIES**

| COUNTY            | AGE-ADJUSTED DEATH RATES                                     |              | MORBIDITY RATE  |             | MORBIDITY RATE  |             |
|-------------------|--|--------------|---|-------------|---|-------------|
|                   | ALL CAUSES<br>OF DEATH<br>(THREE-YEAR AVERAGES) <sup>1</sup> |              | REPORTED INCIDENCE<br>OF AIDS<br>(THREE-YEAR AVERAGES) <sup>2</sup> |             | TUBERCULOSIS<br>CRUDE RATES<br>(THREE-YEAR AVERAGES) <sup>1</sup> |             |
|                   | 1994-1996  | 1997-1999    | 1994-1996   | 1997-1999   | 1994-1996   | 1997-1999   |
| <b>CALIFORNIA</b> | <b>840.7</b>   | <b>791.5</b> | <b>44.9</b>   | <b>24.5</b> | <b>13.8</b>   | <b>11.6</b> |
| ALAMEDA           | 868.2  | 794.1        | 53.1  | 29.3        | 16.6  | 11.6        |
| ALPINE            | 334.3 *  | 791.4 *      | 0.0 +   | 0.0 +       | 0.0 +   | 22.0 *      |
| AMADOR            | 784.4  | 744.1        | 11.4 *  | 16.0 *      | 2.0 *   | 8.4 *       |
| BUTTE             | 825.6  | 816.1        | 10.6 *  | 8.3 *       | 2.8 *   | 13.0        |
| CALAVERAS         | 803.1  | 775.2        | 2.3 *   | 7.8 *       | 0.0 +   | 14.1 *      |
| COLUSA            | 882.8  | 779.1        | 10.6 *  | 0.0 +       | 1.8 *   | 14.3 *      |
| CONTRA COSTA      | 831.8  | 780.7        | 29.9  | 13.5        | 11.7  | 12.0        |
| DEL NORTE         | 833.7  | 867.5        | 19.6 *  | 4.8 *       | 4.8 *   | 8.9 *       |
| EL DORADO         | 803.7  | 756.2        | 13.8 *  | 6.4 *       | 1.8 *   | 10.1 *      |
| FRESNO            | 862.3  | 828.5        | 22.0  | 11.8        | 9.3   | 13.5        |
| GLENN             | 878.3  | 792.7        | 1.8 *   | 1.7 *       | 2.5 *   | 8.1 *       |
| HUMBOLDT          | 958.3  | 942.0        | 20.1 *  | 8.0 *       | 5.3 *   | 12.0 *      |
| IMPERIAL          | 765.8  | 745.8        | 17.0 *  | 4.5 *       | 27.0  | 7.7 *       |
| INYO              | 835.3  | 779.3        | 11.6 *  | 7.1 *       | 0.0 +   | 10.9 *      |
| KERN              | 906.4  | 866.2        | 25.8  | 18.1        | 13.6  | 13.4        |
| KINGS             | 912.7  | 822.0        | 21.0 *  | 27.4        | 17.2  | 10.1 *      |
| LAKE              | 981.1  | 877.3        | 32.8 *  | 21.9 *      | 6.1 *   | 13.0 *      |
| LASSEN            | 691.9  | 701.9        | 27.9 *  | 22.3 *      | 3.0 *   | 8.7 *       |
| LOS ANGELES       | 842.9  | 790.9        | 56.2  | 30.5        | 17.8  | 16.3        |
| MADERA            | 860.8  | 770.1        | 12.9 *  | 8.3 *       | 10.7 *  | 12.2 *      |
| MARIN             | 811.8  | 746.9        | 72.3  | 28.4        | 7.5 *   | 4.6 *       |
| MARIPOSA          | 811.9  | 785.3        | 13.3 *  | 10.4 *      | 0.0 +   | 21.9 *      |
| MENDOCINO         | 968.6  | 872.8        | 23.9 *  | 9.8 *       | 3.5 *   | 13.1 *      |
| MERCED            | 883.6  | 913.8        | 10.1 *  | 6.5 *       | 9.3   | 9.4 *       |
| MODOC             | 857.0  | 875.6        | 0.0 +   | 0.0 +       | 3.4 *   | 13.0 *      |
| MONO              | 433.9 *  | 496.4 *      | 8.3 *   | 0.0 +       | 0.0 +   | 5.1 *       |
| MONTEREY          | 830.4  | 747.1        | 28.3  | 16.2        | 11.4  | 11.1        |
| NAPA              | 851.9  | 815.8        | 22.7  | 8.8 *       | 5.2 *   | 5.7 *       |
| NEVADA            | 700.1  | 687.3        | 18.6 *  | 10.3 *      | 0.0 +   | 9.7 *       |
| ORANGE            | 808.2  | 789.8        | 26.2  | 14.8        | 11.8  | 7.4         |
| PLACER            | 826.5  | 802.2        | 16.2  | 2.6 *       | 2.5 *   | 7.9 *       |
| PLUMAS            | 794.7  | 770.6        | 4.1 *   | 6.2 *       | 6.5 *   | 15.9 *      |
| RIVERSIDE         | 826.4  | 794.2        | 49.4  | 27.6        | 6.9   | 12.4        |
| SACRAMENTO        | 920.8  | 877.0        | 33.3  | 19.3        | 11.4  | 12.4        |
| SAN BENITO        | 679.6  | 631.0        | 14.4 *  | 7.8 *       | 4.9 *   | 3.2 *       |
| SAN BERNARDINO    | 945.8  | 923.5        | 23.2  | 13.7        | 8.0   | 14.2        |
| SAN DIEGO         | 836.9  | 778.5        | 53.2  | 31.0        | 14.7  | 8.3         |
| SAN FRANCISCO     | 906.7  | 719.9        | 267.5   | 140.6       | 34.3  | 8.3         |
| SAN JOAQUIN       | 867.4  | 843.0        | 20.2  | 13.2        | 14.8  | 14.5        |
| SAN LUIS OBISPO   | 781.2  | 743.5        | 28.9  | 15.5        | 7.3 *   | 8.5         |
| SAN MATEO         | 751.6  | 686.6        | 28.9  | 13.8        | 11.7  | 6.3         |
| SANTA BARBARA     | 397.0  | 360.6        | 18.8  | 9.4         | 17.0  | 6.5         |
| SANTA CLARA       | 774.9  | 721.7        | 25.2  | 13.0        | 17.1  | 5.2         |
| SANTA CRUZ        | 782.4  | 710.2        | 22.6  | 11.4        | 9.8   | 6.5 *       |
| SHASTA            | 955.7  | 946.2        | 5.3 *   | 8.9 *       | 2.0 *   | 15.6        |
| SIERRA            | 543.3 *  | 702.8 *      | 12.4 *  | 0.0 +       | 0.0 +   | 15.0 *      |
| SISKIYOU          | 947.3  | 854.8        | 15.6 *  | 10.8 *      | 1.5 *   | 13.9 *      |
| SOLANO            | 929.8  | 868.2        | 42.9  | 30.6        | 14.0  | 10.3        |
| SONOMA            | 824.5  | 799.3        | 43.1  | 14.9        | 5.4   | 7.7         |
| STANISLAUS        | 915.6  | 909.4        | 14.9  | 11.2        | 6.7   | 10.4        |
| SUTTER            | 858.1  | 831.3        | 10.7 *  | 8.4 *       | 12.6 *  | 14.2 *      |
| TEHAMA            | 912.5  | 843.2        | 7.4 *   | 4.0 *       | 5.4 *   | 11.8 *      |
| TRINITY           | 984.7  | 981.7        | 16.1 *  | 0.0 +       | 7.6 *   | 15.1 *      |
| TULARE            | 884.3  | 848.5        | 11.3  | 7.2 *       | 11.7  | 10.3        |
| TUOLUMNE          | 447.9  | 436.3        | 14.8 *  | 8.8 *       | 1.3 *   | 8.2 *       |
| VENTURA           | 754.0  | 757.7        | 15.3  | 8.6         | 9.3   | 8.7         |
| YOLO              | 891.7  | 841.3        | 20.6  | 4.1 *       | 9.0 *   | 8.6 *       |
| YUBA              | 966.9  | 1,078.7      | 10.3 *  | 9.6 *       | 10.5 *  | 14.4 *      |

**TABLE 26 (continued)**  
**A COMPARISON OF THREE-YEAR AVERAGE RATES AND PERCENTAGES**  
**AMONG SELECTED HEALTH STATUS INDICATORS**  
**CALIFORNIA COUNTIES**

| COUNTY            | PERCENT   |             | MORTALITY RATE  |            | PERCENT  |            |
|-------------------|---|-------------|---|------------|--|------------|
|                   | ADEQUATE/ADEQUATE PLUS<br>PRENATAL CARE<br>(THREE-YEAR AVERAGES) <sup>3</sup> |             | INFANT MORTALITY,<br>ALL RACE/ETHNIC GROUPS<br>(THREE-YEAR AVERAGES) <sup>3</sup> |            | LOW BIRTHWEIGHT<br>INFANTS<br>(THREE-YEAR AVERAGES) <sup>4</sup> |            |
|                   | 1994-1996   | 1997-1999   | 1992-1994   | 1995-1997  | 1994-1996  | 1997-1999  |
| <b>CALIFORNIA</b> | <b>71.2</b>   | <b>75.0</b> | <b>7.0</b>  | <b>6.1</b> | <b>6.1</b>   | <b>6.2</b> |
| ALAMEDA           | 80.7  | 79.8        | 6.7   | 5.6        | 7.1  | 6.9        |
| ALPINE            | 81.5 *  | 73.5 *      | 0.0   | 0.0 +      | 0.0 +  | 0.0 +      |
| AMADOR            | 80.3  | 76.7        | 8.2   | 3.7 *      | 4.5 *  | 5.9 *      |
| BUTTE             | 68.2  | 73.2        | 7.4   | 8.0        | 5.5  | 4.9        |
| CALAVERAS         | 73.7  | 73.9        | 13.3  | 5.8 *      | 6.5 *  | 4.9 *      |
| COLUSA            | 58.2  | 61.0        | 6.2   | 8.6 *      | 5.7 *  | 5.9 *      |
| CONTRA COSTA      | 75.0  | 75.8        | 5.8   | 5.7        | 6.2  | 6.3        |
| DEL NORTE         | 63.8  | 77.4        | 11.4  | 10.3 *     | 5.4 *  | 5.4 *      |
| EL DORADO         | 79.8  | 80.2        | 6.4   | 4.0 *      | 5.8  | 5.6        |
| FRESNO            | 78.7  | 82.3        | 8.8   | 8.0        | 6.7  | 6.5        |
| GLENN             | 63.9  | 75.3        | 7.3   | 3.8 *      | 4.0 *  | 4.5 *      |
| HUMBOLDT          | 63.7  | 59.6        | 10.1  | 6.4 *      | 4.9  | 4.4        |
| IMPERIAL          | 67.0  | 66.3        | 5.3   | 5.1 *      | 4.9  | 5.6        |
| INYO              | 66.7  | 74.7        | 13.7  | 10.7 *     | 6.3 *  | 5.3 *      |
| KERN              | 64.2  | 72.2        | 10.6  | 8.8        | 6.6  | 6.1        |
| KINGS             | 62.1  | 77.2        | 8.2   | 8.5 *      | 6.0  | 5.9        |
| LAKE              | 59.3  | 62.3        | 8.9   | 7.1 *      | 5.4  | 5.6        |
| LASSEN            | 75.5  | 80.9        | 6.4   | 5.4 *      | 5.3 *  | 4.3 *      |
| LOS ANGELES       | 71.0  | 77.4        | 7.2   | 6.2        | 6.4  | 6.5        |
| MADERA            | 72.6  | 71.8        | 7.8   | 5.8 *      | 5.3  | 5.2        |
| MARIN             | 85.7  | 79.6        | 4.8   | 3.7 *      | 5.5  | 5.2        |
| MARIPOSA          | 62.9  | 63.2        | 0.0   | 6.8 *      | 4.5 *  | 6.8 *      |
| MENDOCINO         | 53.0  | 61.0        | 8.9   | 7.9 *      | 5.2  | 4.7        |
| MERCED            | 59.8  | 61.4        | 7.4   | 7.0        | 5.8  | 6.0        |
| MODOC             | 57.2  | 65.1        | 9.0   | 15.0 *     | 7.5 *  | 5.7 *      |
| MONO              | 75.1  | 78.4        | 2.4   | 0.0 +      | 6.5 *  | 6.5 *      |
| MONTEREY          | 65.4  | 72.1        | 6.2   | 5.9        | 5.3  | 5.6        |
| NAPA              | 67.5  | 69.7        | 5.5   | 4.2 *      | 4.1  | 4.9        |
| NEVADA            | 65.2  | 69.3        | 4.2   | 7.4 *      | 5.1  | 5.5        |
| ORANGE            | 73.9  | 78.2        | 5.8   | 4.8        | 5.3  | 5.4        |
| PLACER            | 78.7  | 81.1        | 5.4   | 4.7 *      | 5.0  | 4.8        |
| PLUMAS            | 68.4  | 72.5        | 15.7  | 4.2 *      | 6.2 *  | 2.1 *      |
| RIVERSIDE         | 66.3  | 68.9        | 8.0   | 6.7        | 6.1  | 6.2        |
| SACRAMENTO        | 69.8  | 73.8        | 7.8   | 7.1        | 6.5  | 6.7        |
| SAN BENITO        | 53.9  | 56.6        | 7.0   | 5.6 *      | 5.0  | 4.6        |
| SAN BERNARDINO    | 64.0  | 70.6        | 8.4   | 7.7        | 6.6  | 6.4        |
| SAN DIEGO         | 72.0  | 72.2        | 6.4   | 5.5        | 5.8  | 5.9        |
| SAN FRANCISCO     | 81.2  | 78.9        | 6.9   | 4.4        | 6.8  | 6.8        |
| SAN JOAQUIN       | 68.8  | 64.2        | 8.0   | 7.1        | 6.5  | 6.2        |
| SAN LUIS OBISPO   | 81.8  | 83.8        | 7.1   | 5.0 *      | 5.0  | 5.0        |
| SAN MATEO         | 74.0  | 79.0        | 4.4   | 4.8        | 5.7  | 6.1        |
| SANTA BARBARA     | 74.0  | 75.6        | 5.5   | 4.8        | 5.7  | 5.8        |
| SANTA CLARA       | 70.6  | 73.2        | 5.7   | 5.4        | 5.9  | 6.0        |
| SANTA CRUZ        | 67.9  | 73.3        | 5.7   | 4.7 *      | 4.9  | 5.3        |
| SHASTA            | 74.0  | 69.5        | 8.6   | 6.7 *      | 5.4  | 5.1        |
| SIERRA            | 63.2 *  | 69.8 *      | 0.0   | 0.0 +      | 5.2 *  | 2.1 *      |
| SISKIYOU          | 67.0  | 72.2        | 5.1   | 6.9 *      | 5.5  | 5.3        |
| SOLANO            | 63.0  | 65.7        | 7.9   | 6.0        | 6.4  | 6.6        |
| SONOMA            | 75.4  | 73.9        | 5.7   | 4.2        | 5.2  | 5.2        |
| STANISLAUS        | 64.1  | 65.2        | 7.4   | 6.6        | 6.2  | 6.3        |
| SUTTER            | 69.5  | 67.0        | 7.6   | 7.1 *      | 5.6  | 6.3        |
| TEHAMA            | 69.2  | 75.9        | 6.6   | 4.9 *      | 5.4  | 4.4        |
| TRINITY           | 59.4  | 54.8        | 14.5  | 8.2 *      | 6.7 *  | 7.0 *      |
| TULARE            | 64.5  | 70.4        | 6.4   | 6.2        | 5.8  | 5.5        |
| TUOLUMNE          | 78.7  | 80.9        | 6.7   | 8.4 *      | 6.2  | 5.8        |
| VENTURA           | 80.8  | 83.7        | 5.4   | 6.1        | 5.4  | 5.6        |
| YOLO              | 62.3  | 66.1        | 8.0   | 6.7 *      | 5.7  | 5.5        |
| YUBA              | 62.9  | 62.2        | 5.7   | 8.1 *      | 6.2  | 7.3        |

<sup>1</sup> Age-adjusted death rates are per 100,000 population. \* Rate or percent unreliable; relative standard error greater than or equal to 30 percent.  
<sup>2</sup> Crude case rates are per 100,000 population. + Standard error indeterminate; rate or percent based on no (zero) events.  
<sup>3</sup> Birth cohort rates are per 1,000 live births.  
<sup>4</sup> Low birthweight infant percentages are per 100 live births.

## TECHNICAL NOTES

### DATA SOURCES

The California Department of Health Services, Center for Health Statistics, Office of Vital Records, was the source for the birth and death data that appear in this report. These data were tabulated from the Birth and Death Statistical Master Files for the years 1997 through 1999, and from the linked births-deaths in the Birth Cohort-Perinatal Outcome Files for the years 1995 through 1997, which are based on the Statistical Master Files.

The California Department of Health Services, Division of Communicable Disease Control, Office of Statistics and Surveillance, was the source for the reported case incidence of measles, tuberculosis, hepatitis C, chlamydia, and primary and secondary syphilis. Incidence data of diagnosed AIDS cases were provided by the California Department of Health Services, Office of AIDS, AIDS Case Registry. Breastfeeding incidence data were provided by the California Department of Health Services, Genetic Disease Branch, Newborn Screening Program.

The California Department of Finance, Demographic Research Unit and Census Data Center, provided the population data. The 1998 population data used in this report were the Race/Ethnic Population by County with Age and Sex Detail, October 2000. The 1999 population data used in this report were the Race/Ethnic Population by County with Age and Sex Detail, May 2000. The number and percentage of the population under 18 years of age who were below poverty level were tabulated from the U.S. Bureau of the Census, 1990 Census, Summary Tape File 3.

### DATA DEFINITIONS

#### **Mortality** (Tables 1-13):

In prior *Profiles* reports a consistent use of the consensus set of health status indicators has been facilitated by reference to the causes of mortality coded according to the International Classification of Diseases, Ninth Revision (ICD-9).

Beginning in 1999 deaths are coded using the International Classification of Diseases, Tenth Revision (ICD-10). This change in coding is a worldwide standard created by the World Health Organization. In the United States the National Center for Health Statistics sets the standards for implementation of the ICD-10. In their publication *A Guide to State Implementation of ICD-10 for Mortality*, differences between the 9<sup>th</sup> and 10<sup>th</sup> revision are examined:

“ICD-10 differs from ICD-9 in a number of respects: (1) ICD-10 is far more detailed than ICD-9, about 8,000 categories compared with 4,000 categories; (2) ICD-10 uses 4-digit alphanumeric codes compared with 4-digit numeric codes in ICD-9, (3) Cause-of-death titles have been changed, and conditions have been regrouped. (4) Some coding rules have been changed.”

Readers and users of these data therefore, should be cautioned that prior year's mortality tables are not necessarily comparable, and should not be used to create trend data.

Following is a list of the mortality tables in this report and the International Classification of Diseases, Tenth Revision used to create these tables.

|           |   |  |
|-----------|---|--|
| Table 1:  | All Causes of Death.....                | A00-Y89  |
| Table 2:  | Motor Vehicle Crashes .....             | VO2-V04, V09.0, V09.2, V12-V14,<br>V19.0-V19.2, V19.4-V19.6, V20-<br>V79, V80.3-V80.5, V81.0-V81.1,<br>V82.0-V82.1, V83-V86, V87.0-<br>V87.8, V88.0-V88.8, V89.0,<br>V89.2   |
| Table 3:  | Unintentional Injuries .....            | V01-X59, Y85-Y86   |
| Table 4:  | Firearm – related Deaths.....           | W32-W34, X72-X74, X93-X95,<br>Y22-Y24, Y35.0   |
| Table 5:  | Homicides.....                          | X85-Y09, Y87.1   |
| Table 6:  | Suicides .....                          | X60-X84, Y87.0   |
| Table 7:  | All Cancers .....                       | C00-C97  |
| Table 8:  | Lung Cancer .....                       | C33-C34  |
| Table 9:  | Female Breast Cancer.....               | C50  |
| Table 10: | Coronary (Ischemic) Heart Disease ..... | I11, I20-I25   |
| Table 11: | Cerebrovascular Disease .....           | I60-I69  |
| Table 12: | Drug-Related Deaths.....                | F11.0-F11.5, F11.7-F11.9,F12.0-<br>F12.5, F12.7-F12.9, F13.0-<br>F13.5, F13.7-F13.9, F14.0-<br>F14.5, F14.7-F14.9, F15.0-<br>F15.5, F15.7-F15.9, F16.0-<br>F16.5, F16.7-F16.9, F17.0-<br>F17.5, F17.7-F17.9, F18.0-<br>F18.5, F18.7-F18.9, F19.0-<br>F19.5, F19.7-F19.9, X40-X44,<br>X60-X64, X85, Y10-Y14 |
| Table 13: | Diabetes Deaths .....                   | E10-E14  |

The cardiovascular disease health indicator has been divided into coronary heart disease and cerebrovascular disease (stroke), because Year 2010 National Health Objectives have been separately established for these two diagnostic groups.

**Morbidity** (Tables 14-19): In general, the case definition of a disease is in terms of laboratory test results, or in the absence of a laboratory test, then a constellation of clearly specified signs and symptoms that meet a series of clinical criteria.

The original case definition for Acquired Immunodeficiency Syndrome (AIDS) is contained in the **Morbidity and Mortality Weekly Report (MMWR)**, Supplement 1S, Volume 36, August 14, 1987. The 1993 revised classification system for human immunodeficiency virus (HIV) infection and the expanded surveillance case definition for AIDS is in the **MMWR**, Volume 41, Number RR-17, December 18, 1992. Original case definitions for measles, syphilis, and tuberculosis are contained in the **Morbidity and Mortality Weekly Report (MMWR), Recommendations and Reports**, Volume 39, Number RR-13, October 19, 1990.

Caution in interpretation of morbidity tables is advised due to incomplete reporting of infectious and communicable diseases by many health care providers. Many factors contribute to the underreporting of these diseases. These factors include: lack of awareness regarding disease surveillance; lack of follow-up on support staff assigned to report; failing to perform diagnostic lab tests to confirm or rule out infectious etiology; concern for anonymity of the client; or expediting treatment in lieu of waiting for laboratory results because of time or cost constraints.

All vital events are subject to the vagaries of reporting. This fact forms the basis for the argument supporting the concept of sampling error in vital statistics. The problem of the uncertainty of reporting all events can be especially true for morbidity data. Therefore, the headings of the tables on AIDS, Measles, Tuberculosis, Hepatitis C, Chlamydia and Syphilis emphasize that the data show only **reported** number of cases. For more complete and technical definitions of types of morbidity, contact the Division of Communicable Disease Control or the Office of AIDS.

**Birth Cohort Infant Mortality** (Tables 20A-20E): The infant mortality rate is the number of deaths among infants under one year of age per 1,000 live births. It is a universally accepted and easily understood indicator which represents the overall health status of a community. Studies of infant mortality, in which race is reported on birth certificates independently from death certificates, show that infant death rates based on these data may underestimate the infant death rates for infants of all race/ethnic groups and especially for certain race/ethnic groups. Infant mortality rates for race/ethnic groups in this report are based on linked birth and infant death records in the Birth Cohort-Perinatal Outcome Files, which generate more accurate estimates of the total number of infant deaths. Also, infant death rates that are calculated from these files provide a consistent identification of race/ethnicity for both births and deaths.

Since delayed birth and death certificate data are included in the Birth Cohort-Perinatal Outcome Files after the Birth and Death Statistical Master Files have been closed to further processing, these files cannot be as timely as the Statistical Master Files. However, the Birth Cohort-Perinatal Outcome Files are more complete.

**Race/Ethnicity** (Tables 20A-20E): The four groups, based on mother's race/ethnicity, are mutually exclusive and all inclusive categories. They are also consistent for the most part with those used by the State Census Data Center, Department of Finance, for compiling 1998 and 1999 population estimates.

The mother's Hispanic origin is determined first, irrespective of race, and then second, the race categories for the remaining non-Hispanics are determined. The White category includes the following groups: White, Other (Specified), Not Stated, and Unknown. The White race/ethnic group is also non-Hispanic. The Black category only includes non-Hispanic Blacks. The Asian/Other category includes the following groups: Aleut, American Indian, Asian Indian, Asian (specified/unspecified), Cambodian, Chinese, Eskimo, Filipino, Guamanian, Hawaiian, Japanese, Korean, Laotian, Other Pacific Islander, Samoan, Thai, and Vietnamese. The Asian/Other race/ethnic group is also non-Hispanic. This composition is somewhat different from the Asian/Pacific Islander category specified by United States Public Health Services (USPHS) in *Healthy People 2010*, primarily because of inclusion of Aleut, American Indian and Eskimo groups. The Hispanic ethnic group includes any race, but is made up primarily of the White race.

**Natality** (Tables 21-23B): The natality data were obtained from the Birth Statistical Master Files from 1997 through 1999. Records with unknown birthweight were excluded from the total number of live births shown in Table 21. Also, records with unknown prenatal care were excluded from the total number of live births shown in Table 23A, and records with unknown adequacy of prenatal care were excluded from the total number of live births shown in Table 23B.

Low birthweight has been associated with negative birth outcomes, and as an indicator of access problems and/or need for prenatal care services. Prevalence of low birthweight is defined as the percentage of live births weighing less than 2,500 grams (approximately 5.5 pounds). Birth rates to adolescents are also an indicator for other high-risk pregnancy factors. It is defined as the number of births to mothers 15-19 years of age per 1,000 female population 15-19 years of age.

The prenatal care indicator, Month Prenatal Care Began, has been associated with access to care. Late prenatal care is defined as the percentage of mothers who did not begin prenatal care in the first trimester. However, the percentage of births in which the mother's prenatal care began in the first trimester, as a health indicator, does not readily permit an unambiguous interpretation. According to some researchers, it fails to document whether or not prenatal care actually continues for the course of the pregnancy. Therefore, in addition to Prenatal Care Not Begun First Trimester of Pregnancy, this *Profiles* includes adequacy of prenatal care based on the Adequacy of Prenatal Care Utilization Index.

In *Profiles* reports from 1995 through 1998, the Kessner Index was used to measure the adequacy of prenatal care. The Kessner Index was replaced in the 1999 report by the Adequacy of Prenatal Care Utilization Index, which is the methodology specified in *Healthy People 2010 Objectives*. The Adequacy of Prenatal Care Utilization Index developed by Milton Kottlechuck attempts to characterize prenatal care utilization on two independent and distinctive dimensions: Adequacy of Initiation of Prenatal Care and Adequacy of Received Services (once prenatal care has begun). The initial dimension, Adequacy of Initiation of Prenatal Care, characterizes the adequacy of the timing of initiation of care (month prenatal care began). The second dimension, Adequacy of Received Services, characterizes the adequacy of prenatal care visits (number of visits) received during the time the mother is actually in prenatal care (from initiation until the

delivery). The adequacy of prenatal visits is based on the recommendations established by the American College of Obstetricians and Gynecologists. These two dimensions are then combined into a single summary prenatal care utilization index, which contains the following five adequacy of prenatal care categories:

- (1) Adequate Plus: Prenatal care begun by the fourth month and 110 percent or more of the recommended visits received.
- (2) Adequate: Prenatal care begun by the fourth month and 80 to 109 percent of the recommended visits received.
- (3) Intermediate: Prenatal care begun by the fourth month and 50 to 79 percent of the recommended visits received.
- (4) Inadequate: Prenatal care begun after the fourth month or less than 50 percent of the recommended visits received.
- (5) Missing Information: Unknown adequacy of prenatal care.

Only “adequate and adequate plus” prenatal care are used in Table 23B to measure the adequacy of prenatal care utilization. Also, please note the two-factor index does not assess the quality of the prenatal care that is delivered, but simply its utilization. For further information on the Adequacy of Prenatal Care Utilization Index see the *American Journal of Public Health* article by Kottlechuck listed in the Bibliography.

**Breastfeeding Initiation During Early Postpartum** (Table 24): Extensive research, especially in recent years, demonstrates the diverse and compelling advantages to infants, mothers, families, and society from breastfeeding and the use of human milk for infant feeding. Breastfeeding provides advantages with regard to the general health, growth, and development of infants, while significantly decreasing their risk for a large number of acute and chronic diseases. There are also a number of studies that indicate possible health benefits for mothers such as less postpartum bleeding, rapid uterine involution, and reduced risk of ovarian cancer and post menopausal breast cancer. In addition to individual health benefits, breastfeeding provides significant social and economic benefits to the nation, including reduced health care costs and reduced employee absenteeism for care attributable to child illness.

The breastfeeding initiation data presented in this report were obtained from the Genetic Disease Branch, Newborn Screening Program. The Newborn Screening Program collects feeding data from all mothers who gave birth in a California hospital, usually within 24 hours of life. Births that occurred outside of California, at home, or in-transit are not collected through this Program and are not represented in Table 24. These births, however, account for less than 1.0 percent of the total resident live births in California.

The feeding data captured by the Newborn Screening Program were compiled into the following four categories:

- (1) Breastfed: Exclusively breastfed.
- (2) Combination: Both breastfed and formula fed.
- (3) Non-Breastfed: Formula fed and other (e.g., line fed).
- (4) Unknown: Feeding choice unknown at the time of hospital discharge.

The breastfeeding initiation data presented in Table 24 are a composite of both “breastfed” and “combination” fed births. Records that were of “unknown” feeding type were excluded from the analyses.

The infant feeding data collected on the Newborn Screening form reflect the intentions of the mother at that time, and no follow-up survey is conducted to validate the accuracy of the information after the mother is discharged from the hospital. Caution should also be taken when analyzing breastfeeding initiation data alone because breastfeeding duration is not taken into consideration. Examination of breastfeeding initiation data along with duration data is recommended to thoroughly measure the effects of breastfeeding. Since appropriate data are not currently available, breastfeeding duration data are not presented in this report.

**Childhood Poverty** (Table 25): Children under the age of 18 living in families at or below the poverty level define the category of the population under 18 below poverty. The percent of children under 18 in this category is an indicator of global risk factors that have implications for the accessibility to health services.

## **CRUDE RATES AND AGE-ADJUSTED RATES**

The numerator data used to compute rates and percentages were three-year averages compiled by: county of residence of the decedent for the mortality table that includes all causes of death; county of residence of the mother for birth data (including linked birth-death data for infant mortality); and county of occurrence for morbidity data, except for AIDS which was compiled by county of residence. Three-year averages tend to reduce the year-to-year fluctuations and increase the stability of estimates of vital events compared to data from single years.

The numerator data used to compute rates for the mortality data presented in Tables 2 through 13 were for the single year 1999. Mortality data for specific causes of death in 1999 cannot be combined with prior years' data because of the change from the Ninth Revision to the Tenth Revision of the International Classification of Diseases for cause of death coding, (See the **Mortality** section under **DATA DEFINITIONS** for further explanation.)

In the subsequent **Profiles** report a two-year average will be used to combine data for years 1999 and 2000, and the following year data for 1999, 2000 and 2001 will be combined for a three-year average. Thereafter, three-year averages will be used as numerator data for specific causes of mortality in the **Profiles** reports.

An unstandardized rate (usually referred to as a "crude rate") is obtained by dividing the total number of vital events (e.g. deaths) by the total population at risk, then multiplying by some convenient basis (e.g. 100,000). Subpopulations (such as counties) with varying age compositions can have highly disparate death rates, since the risk of dying is primarily a function of age. Therefore, counties with a large component of elderly tend to have a high death rate simply because the risk of dying is determined mostly by age. Any unwanted effect of different age compositions among counties can be removed from the county death rates by the process of "age-adjustment." By removing the effect of different age compositions, counties with age-adjusted rates are more directly comparable with the Year 2010 National Objective.

Age-adjusted death rates are hypothetical rates obtained by calculating age-specific rates for each county and multiplying these rates by proportions of the same age categories in a "standard population," then summing the apportioned specific rates to a county total. The "standard population" used in the age-adjusted county death rates in this report is the 2000 United States Standard Million Population. The age-adjusted rates put all counties on the same footing with respect to the effect of age and permit direct comparisons among counties. It is important to understand that age-adjusted death rates should be viewed as constructs or index numbers rather than as actual measures of the risk of mortality. Crude death rates, which include the effect of age, are the rates that should be applied when measuring the actual risk of dying in a specific population. For further information on age-adjusted rates, see the National Center for Health Statistics (NCHS) report by Curtin and Klein listed in the Bibliography on "Direct Standardization."

The 2000 U.S. population was used as the "standard population" in this report, because the national objectives in **Healthy People 2010** are based on the 2000 U.S. population. The use of an agreed upon standard population permits direct comparison with both national data and the year 2010 objectives.

Readers should be cautioned that age adjusted rates from prior **Profiles** reports using the 1940 Standard Population cannot be compared with the age adjusted rates in this year's report, which use the 2000 Standard Population. As an example, the 1999 age adjusted death rate from all causes using the 2000 Standard Population for California was 791.5. If you were to use the 1940 Standard Population to create age adjusted rates for the same California deaths in 1999, the age adjusted rate would be 415.0. See *Appendix A, following these Technical Notes* for a comparison by county of 1999 age adjusted death rates using the 1940 and 2000 Standard Populations.

Data for the morbidity tables were not age-adjusted due to the unavailability of data by age. Hence, only crude rates can be calculated. Although age and aging do impact morbidity, the effect is not as prominent as its impact on mortality.

Birth cohort infant death rates are also not age-adjusted. Since the deaths are linked to the births on a record by record basis, these rates are based on a numerator (deaths) and a denominator (births) from the same record. Age-adjusting is not applicable to these data. Comparisons among counties reflect the actual risk of dying within the one year of birth in the cohort of births, and at the same time, are unaffected by confounding of different age compositions because the cohorts are all of the same age (under one year).

## RELIABILITY OF RATES

All vital statistics rates, including morbidity rates, are subject to random variation. This variation is inversely related to the number of events (e.g. death) used to calculate the rate. The smaller the frequency of occurrence of an event, then the greater the likelihood of random fluctuations within a specified time period. The more rare an event, the relatively less stable its occurrence from observation to observation. Even present day statewide crude death rates may be interpreted as "rare" events occurring on the average of less than one death in 148 persons in the course of a year. (See Table 1: Deaths Due to All Causes, which shows 673.6 deaths per 100,000 population statewide.)

As a consequence, counties with only a few deaths, or a few cases of morbidity, can have highly unstable rates from year to year. The observation and enumeration of rare events is beset with uncertainty. The observation of no vital events is especially hazardous, regardless of the size of the population. This report reduces some year-to-year fluctuation in the occurrence of rare events by basing some rates on three-year average number of vital events (e.g. 1997-1999), divided by the population in the middle year (e.g. 1998). The "standard error" of a death rate and "coefficient of variation" (or relative standard error) provide a rational basis for determining which rates may be considered "unreliable." Although reliability of a rate is not either-or/on-off, in this report, counties with a relative standard error of greater than or equal to 23% of the rate or percent are marked with an asterisk (\*). This criterion conforms with the standard used by the National Center for Health Statistics in determining the reliability cut-off for rates and percents. In addition, rates of zero, based on no events, are denoted with a plus sign (+), because the standard error cannot be calculated and is indeterminate. Furthermore, whenever the standard error is indeterminate, the confidence limits are not calculated, and a dash (-) denotes these confidence limits.

The 95% confidence limits depict the region within which (if data similar to the present set were independently acquired on 100 separate occasions) the rate would probably occur in 95 of those sets of data. In 5 of those 100 data sets, the rate or percent would fall outside the limits.

Finally, for appropriate statistical methodologies in comparing independent rates or percentages, please see the NCHS reports listed in the Bibliography by Curtin and Klein on "Direct Standardization" and by Kleinman on "Infant Mortality."

## RANKING OF COUNTIES

Data on each health indicator, except adequacy of prenatal care (Table 23B) and incidence of breastfeeding (Table 24), are displayed with the counties in rank order by increasing rates or percentages (calculated to 15 decimal places); lower rates or percentages are near the top of the table and higher rates or percentages are near the bottom of the table. Data for adequacy of prenatal care and incidence of breastfeeding are displayed with the counties in rank order by decreasing percentages (calculated to 15 decimal places); higher percentages are near the top of the table and lower percentages are near the bottom of the table. For all health indicators, counties with identical rates or percentages are ranked by size of population, with larger counties ahead of smaller counties.

## **FORMULAS USED IN THIS REPORT**

$$CDR = \left( \frac{nD}{Npop} \right) \times B$$

$$ADR = W_a \left( \frac{nD_a}{Npop_a} \right) \times B$$

$$ASDR = \left( \frac{nD_a}{Npop_a} \right) \times B$$

$$SE_x = \left( \frac{CDR}{\sqrt{nD}} \right)$$

$$SE_y = \sqrt{\frac{(W_a \times ASDR)^2}{nD_a}}$$

$$RSE_x = \left| \frac{SE_x}{CDR} \right| \times 100$$

$$RSE_y = \left( \frac{SE_y}{ADR} \right) \times 100$$

$$\text{Lower 95\% CL} = ADR - (1.96 \times SE_y) \quad \text{Upper 95\% CL} = ADR + (1.96 \times SE_y)$$

Where:

- CDR = Crude Death Rate
- ADR = Age-Adjusted Death Rate
- ASDR = Age-Specific Death Rate
- nD = Number of Deaths
- Npop = Population Size
- nD<sub>a</sub> = Number of Deaths in an Age Group
- Npop<sub>a</sub> = Population Size in Same Age Group
- B = Base (100,000)
- W<sub>a</sub> = Age-Specific Weight (Standard Population Proportion)
- SE<sub>x</sub> = Standard Error of a Crude Death Rate
- RSE<sub>x</sub> = Relative Standard Error of a Crude Death Rate
- SE<sub>y</sub> = Standard Error of an Age-Adjusted Death Rate
- RSE<sub>y</sub> = Relative Standard Error of an Age-Adjusted Death Rate
- CL = Confidence Limit

## **PROCEDURE FOR CALCULATING AGE-ADJUSTED RATES BY THE DIRECT METHOD**

Age-adjusted rates calculated in this report follow the procedure that was used to set the Year 2010 National Objectives. The standard population was the year 2000 United States population (the U.S. "Standard Million"). The data below were taken from Table 1: Deaths Due to All Causes, 1997-1999 for Alameda County.

| <b>ALAMEDA COUNTY</b>         |                                   |                        |                                  |   |                              |
|-------------------------------|-----------------------------------|------------------------|----------------------------------|---|------------------------------|
| <b>AGE GROUPS</b>             | <b>1997-1999 DEATHS (AVERAGE)</b> | <b>1998 POPULATION</b> | <b>AGE-SPECIFIC RATE/100,000</b> | <b>2000 U.S. STANDARD MILLION PROPORTIONS</b> | <b>WEIGHTED RATE FACTORS</b> |
|                               | <b>(A)</b>                        | <b>(B)</b>             | <b>(C)</b>                       | <b>(D)</b>                                    | <b>(E)</b>                   |
| TOTAL                         | 9,746.0                           | 1,428,262              | 682.4                            |   |                              |
| <1                            | 113.3                             | 20,512                 | 552.5                            | 0.013818                                      | 7.6                          |
| 1-4                           | 19.3                              | 86,520                 | 22.3                             | 0.055317                                      | 1.2                          |
| 5-14                          | 25.7                              | 210,279                | 12.2                             | 0.145565                                      | 1.8                          |
| 15-24                         | 122.0                             | 169,834                | 71.8                             | 0.138646                                      | 10.0                         |
| 25-34                         | 208.3                             | 222,190                | 93.8                             | 0.135573                                      | 12.7                         |
| 35-44                         | 443.3                             | 257,313                | 172.3                            | 0.162613                                      | 28.0                         |
| 45-54                         | 778.3                             | 199,232                | 390.7                            | 0.134834                                      | 52.7                         |
| 55-64                         | 994.3                             | 113,039                | 879.6                            | 0.087247                                      | 76.7                         |
| 65-74                         | 1,782.0                           | 79,636                 | 2,237.7                          | 0.066037                                      | 147.8                        |
| 75-84                         | 2,749.0                           | 51,849                 | 5,301.9                          | 0.044842                                      | 237.7                        |
| >84                           | 2,508.3                           | 17,858                 | 14,046.0                         | 0.015508                                      | 217.8                        |
| <b>AGE-ADJUSTED RATE-----</b> |                                   |                        |                                  |   | <b>794.1</b>                 |

- STEP 1:** *Array the data of three-year average number of deaths and population for 11 age groups in columns A and B.*
- STEP 2:** *Calculate age-specific rates by dividing the number of deaths in column A (numerator) by the population in column B (denominator). Multiply the result (quotient) by the base of 100,000 to obtain the rates in column C.*
- STEP 3:** *Multiply each age-specific rate in column C by the corresponding 2000 U.S. Standard Million proportion in column D and enter the result in column E.*
- STEP 4:** *The values for each age group in column E are summed to obtain the Age-Adjusted Death Rate for Alameda County of 794.1 per 100,000 population.*
- STEP 5:** *Repeat Steps 1 through 4 for each county and the statewide total. Note that the 2000 U.S. Standard Million proportions remain the same for each county and the state.*
- STEP 6:** *Direct comparisons can now be made among the counties, with the removal of the effect that varying county age compositions may have on death rates.*

**COMPARISON OF 1940 AND 2000 STANDARD POPULATION AGE-ADJUSTED RATES  
DEATHS DUE TO ALL CAUSES  
CALIFORNIA COUNTIES, 1997-1999**

| COUNTY          | 1998<br>POPULATION | 1997-1999<br>DEATHS<br>(AVERAGE) | CRUDE<br>DEATH RATE | YEAR 2000<br>AGE-ADJUSTED<br>DEATH RATE | YEAR 1940<br>AGE-ADJUSTE<br>DEATH RATE * |
|-----------------|--------------------|----------------------------------|---------------------|---|--|
| CALIFORNIA      | 33,492,817.0       | 225,617.7                        | 673.6               | 791.5                                   | 415.0                                    |
| ALAMEDA         | 1,428,262.0        | 9,746.0                          | 682.4               | 794.1                                   | 419.9                                    |
| ALPINE          | 1,189.0            | 8.0                              | 672.8 *             | 791.4 *                                 | 411.2 *                                  |
| AMADOR          | 33,121.0           | 350.0                            | 1,056.7             | 744.1                                   | 400.4                                    |
| BUTTE           | 199,611.0          | 2,149.7                          | 1,076.9             | 816.1                                   | 462.8                                    |
| CALAVERAS       | 38,222.0           | 394.7                            | 1,032.6             | 775.2                                   | 441.2                                    |
| COLUSA          | 18,590.0           | 142.0                            | 763.9               | 779.1                                   | 448.1                                    |
| CONTRA COSTA    | 916,897.0          | 6,526.0                          | 711.7               | 780.7                                   | 397.5                                    |
| DEL NORTE       | 27,804.0           | 254.3                            | 914.7               | 867.5                                   | 521.8                                    |
| EL DORADO       | 150,152.0          | 1,093.3                          | 728.2               | 756.2                                   | 391.3                                    |
| FRESNO          | 785,081.0          | 5,333.7                          | 679.4               | 828.5                                   | 451.7                                    |
| GLENN           | 26,796.0           | 222.0                            | 828.5               | 792.7                                   | 442.7                                    |
| HUMBOLDT        | 125,778.0          | 1,158.3                          | 920.9               | 942.0                                   | 513.4                                    |
| IMPERIAL        | 143,423.0          | 861.3                            | 600.6               | 745.8                                   | 437.4                                    |
| INYO            | 18,236.0           | 206.3                            | 1,131.5             | 779.3                                   | 420.1                                    |
| KERN            | 640,005.0          | 4,565.0                          | 713.3               | 866.2                                   | 489.6                                    |
| KINGS           | 124,184.0          | 717.0                            | 577.4               | 822.0                                   | 463.1                                    |
| LAKE            | 55,079.0           | 722.7                            | 1,312.1             | 877.3                                   | 529.9                                    |
| LASSEN          | 33,473.0           | 202.3                            | 604.5               | 701.9                                   | 380.6                                    |
| LOS ANGELES     | 9,639,736.0        | 59,535.7                         | 617.6               | 790.9                                   | 417.5                                    |
| MADERA          | 114,782.0          | 809.3                            | 705.1               | 770.1                                   | 421.1                                    |
| MARIN           | 244,911.0          | 1,841.0                          | 751.7               | 746.9                                   | 348.9                                    |
| MARIPOSA        | 16,060.0           | 173.7                            | 1,081.4             | 785.3                                   | 464.2                                    |
| MENDOCINO       | 86,212.0           | 791.3                            | 917.9               | 872.8                                   | 474.0                                    |
| MERCED          | 204,352.0          | 1,361.0                          | 666.0               | 913.8                                   | 488.0                                    |
| MODOC           | 9,845.0            | 112.7                            | 1,144.4             | 875.6                                   | 458.2                                    |
| MONO            | 10,600.0           | 40.3                             | 380.5               | 496.4 *                                 | 287.9 *                                  |
| MONTEREY        | 384,087.0          | 2,274.3                          | 592.1               | 747.1                                   | 383.8                                    |
| NAPA            | 122,560.0          | 1,266.0                          | 1,033.0             | 815.8                                   | 412.0                                    |
| NEVADA          | 89,952.0           | 849.0                            | 943.8               | 687.3                                   | 357.1                                    |
| ORANGE          | 2,763,830.0        | 16,290.0                         | 589.4               | 789.8                                   | 376.5                                    |
| PLACER          | 223,121.0          | 1,689.7                          | 757.3               | 802.2                                   | 390.1                                    |
| PLUMAS          | 20,370.0           | 210.7                            | 1,034.2             | 770.6                                   | 433.9                                    |
| RIVERSIDE       | 1,458,486.0        | 11,673.7                         | 800.4               | 794.2                                   | 442.9                                    |
| SACRAMENTO      | 1,176,182.0        | 8,804.0                          | 748.5               | 877.0                                   | 464.6                                    |
| SAN BENITO      | 47,762.0           | 265.0                            | 554.8               | 631.0                                   | 331.4                                    |
| SAN BERNARDINO  | 1,645,702.0        | 10,720.0                         | 651.4               | 923.5                                   | 495.2                                    |
| SAN DIEGO       | 2,828,325.0        | 18,853.7                         | 666.6               | 778.5                                   | 403.8                                    |
| SAN FRANCISCO   | 789,413.0          | 6,694.3                          | 848.0               | 719.9                                   | 403.2                                    |
| SAN JOAQUIN     | 551,531.0          | 4,190.3                          | 759.8               | 843.0                                   | 472.7                                    |
| SAN LUIS OBISPO | 238,094.0          | 1,976.3                          | 830.1               | 743.5                                   | 388.4                                    |
| SAN MATEO       | 721,374.0          | 4,929.3                          | 683.3               | 686.6                                   | 343.3                                    |
| SANTA BARBARA   | 404,996.0          | 2,859.0                          | 705.9               | 713.9                                   | 360.6                                    |
| SANTA CLARA     | 1,701,372.0        | 8,937.3                          | 525.3               | 721.7                                   | 345.1                                    |
| SANTA CRUZ      | 250,763.0          | 1,647.3                          | 656.9               | 710.2                                   | 361.1                                    |
| SHASTA          | 164,748.0          | 1,685.3                          | 1,023.0             | 946.2                                   | 509.1                                    |
| SIERRA          | 3,371.0            | 37.0                             | 1,097.6             | 702.8 *                                 | 383.5 *                                  |
| SISKIYOU        | 43,968.0           | 468.0                            | 1,064.4             | 854.8                                   | 469.1                                    |
| SOLANO          | 385,372.0          | 2,340.3                          | 607.3               | 868.2                                   | 452.8                                    |
| SONOMA          | 440,461.0          | 3,730.7                          | 847.0               | 799.3                                   | 412.9                                    |
| STANISLAUS      | 431,029.0          | 3,331.3                          | 772.9               | 909.4                                   | 493.9                                    |
| SUTTER          | 76,645.0           | 628.7                            | 820.2               | 831.3                                   | 453.7                                    |
| TEHAMA          | 55,130.0           | 583.0                            | 1,057.5             | 843.2                                   | 471.6                                    |
| TRINITY         | 13,184.0           | 150.0                            | 1,137.7             | 981.7                                   | 567.2                                    |
| TULARE          | 361,420.0          | 2,577.7                          | 713.2               | 848.5                                   | 475.9                                    |
| TUOLUMNE        | 52,705.0           | 534.3                            | 1,013.8             | 794.5                                   | 436.3                                    |
| VENTURA         | 738,121.0          | 4,551.7                          | 616.7               | 757.7                                   | 374.1                                    |
| YOLO            | 155,995.0          | 1,027.0                          | 658.4               | 841.3                                   | 437.5                                    |
| YUBA            | 60,347.0           | 525.0                            | 870.0               | 1,078.7                                 | 615.7                                    |

Note: \* Case rate unreliable, relative standard error is greater than or equal to 23%.

## BIBLIOGRAPHY

**American Academy of Pediatrics.** Breastfeeding and the Use of Human Milk (RE9729). *Pediatrics*, Vol. 100, No. 6, December 1997: pp. 1035-1039.

**Armitage P, Berry G.** *Statistical Methods in Medical Research*, second edition. Boston: Blackwell Scientific Publication, 1987.

**Curtin LR, Klein RJ.** Direct Standardization (Age-Adjusted Death Rates), *Healthy People 2000 Statistical Notes*. National Center for Health Statistics, DHHS Pub. No. (PHS) 95-1237, March 1995; No. 6-Revised.

**Fleiss JL.** *Statistical Methods for Rates and Proportions*, second edition. New York: John Wiley and Sons, 1981.

**Foster JE.** Using Natality Data in Health Planning. *Statistical Notes for Health Planners*. National Center for Health Statistics, DHHS Pub. No. (PHS) 81-1237, November 1980; No. 12.

**Freedman MA.** Health Status Indicators for the Year 2000. *Healthy People 2000 Statistical Notes*. National Center for Health Statistics, DHHS Pub. No. (PHS) 92-1237, Fall 1991; Vol 1, No. 1.

**Institute for Medicine.** *The Future of Public Health*. Washington, D.C.: National Academy of Science Press, 1988; pp. 13-15.

**Klein RJ, Schoenborn, CA.** *Healthy People 2010 Statistical Notes: Age Adjustment Using the 2000 Projected U.S. Population*. National Center for Health Statistics, DHHS Publication, Number 20, January 2001.

**Kleinman JC.** Mortality. *Statistical Notes for Health Planners*. National Center for Health Statistics, DHHS Pub. No. (HRA) 77-1237, February 1977; No. 3.

**Kottlechuck M.** An Evaluation of the Kessner Adequacy of Prenatal Care Index and a Proposed Adequacy of Prenatal Care Utilization Index. *American Journal of Public Health*, Vol. 84, No. 9, September 1994: pp. 1414-1420.

**Lilienfeld AM, Lilienfeld DE.** *Foundations of Epidemiology*, second edition. New York: Oxford University Press, 1980.

**Tashiro M.** A Description of the California Birth Cohort Perinatal File. *Data Matters #83-11078*. Center for Health Statistics, California Department of Health Services, February 1984.

**U. S. Department of Health and Human Services.** *Healthy People 2000: National Health Promotion and Disease Prevention Objectives for the Nation*. Washington, D.C.: Public Health Service, DHHS Pub. No. (PHS) 91-50212, 1991.

**U. S. Department of Health and Human Services.** *Healthy People 2010 Objectives (Conference Edition, in Two Volumes)*. Washington, D.C., January 2000.

**World Health Organization.** *Manual of the International Classification of Diseases, Injuries, and Causes of Death*, tenth revision. Geneva: World Health Organization, 1992.

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