



**COUNTY HEALTH  
STATUS PROFILES  
1999**

**Department of  
Health Services and  
California  
Conference of Local  
Health Officers**

**Public Health Week April 5-9, 1999**

COUNTY HEALTH STATUS

# **PROFILES**

## **1999**

Distributed by  
California Department of Health Services  
Director

Health Information and Strategic Planning  
George B. (Peter) Abbott, M.D., M.P.H.  
Acting Deputy Director

Center for Health Statistics  
Michael L. Rodrian, Chief

Office of Health Information and Research  
Anthony Oreglia, Chief

Planning and Data Analysis Section  
Michael Quinn, Chief

In collaboration with  
California Conference of Local Health Officers  
George Wolfe, M.D., M.P.H.  
President

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**DEPARTMENT OF HEALTH SERVICES**

714/744 P STREET  
P. O. BOX 942732  
SACRAMENTO, CA 94234-7320  
(916) 322-1223



Dear Colleague:

We are pleased to present the seventh edition of *County Health Status Profiles* for Public Health Week, April 5-9, 1999. This report contains selected health status indicators recommended by the U.S. Public Health Service for monitoring state and local progress toward achieving some of the goals set forth in *Healthy People 2000*. The Year 2000 National Health Objectives challenge public health professionals to increase the span of healthy life, reduce health disparities, and ensure access to preventive services for all Americans.

The set of health indicators from year to year remains relatively unchanged. The *Profiles* report is evaluated with each annual edition and amended according to priorities developed by the Department of Health Services and the California Conference of Local Health Officers. Critiques on style and technical presentation of last year's report have been incorporated wherever possible.

We believe this report represents an important means to assess public health in California. The health status indicators are based on data that are readily available for providing information to guide the future course of health promotion and preventive services.

George B. (Peter) Abbott, M.D., M.P.H.  
Acting Deputy Director  
Health Information and Strategic

George Wolfe, M.D., M.P.H.  
President  
California Conference of Local Planning Health Officers

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## INTRODUCTION

The collection, analysis, and use of public health data are essential components of a fully functioning public health program at the national, state, and local levels. Assessment of public health is enhanced when data collected at the state and local levels can be directly compared with clearly established benchmarks, such as national standards, and populations of similar composition, according to the Institute of Medicine's 1988 report entitled, ***The Future of Public Health***.

Recognition of the importance of well-defined goals and objectives for improving the health of the nation by the United States Public Health Services (USPHS), resulted in the publication of ***Healthy People 2000: National Health Promotion and Disease Prevention Objectives for the Nation***. Priority Area 22 in this report was established to develop and improve a statistical infrastructure that would allow all levels of government to monitor progress and to evaluate health status changes toward meeting the Year 2000 objectives. In response to the specifications of Objective 22.1, the Centers for Disease Control and Prevention (CDC) convened a committee to identify health status indicators. The committee members agreed that the indicators must have the following characteristics:

- Be few in number (10-20).
- Be comprehensive.
- Include global measures to assess morbidity, mortality, and quality of life.
- Include specific measures of community health.
- Contain a subset that is consistent at the federal, state, and local level.
- Be readily and uniformly understandable, and acceptable.
- Be measurable using available data.
- Imply specific interventions compelling action.
- Be outcome oriented.

For ***County Health Status Profiles***, some modifications have been made to the list of 18 indicators chosen by the committee. Principally, health indicators for Air Quality and for Work Related Deaths were omitted, but an indicator for adequacy of prenatal care was included: the Adequacy of Prenatal Care Utilization Index. Other health indicators, which have no established Year 2000 National Objective, but were included in this report are: deaths due to all causes of death; infant mortality tables among Asian/Other, Hispanic and White; and birth rates among adolescent mothers aged 15-19.

This edition of the **Profiles** for 1999 utilizes essentially the same health indicators and report format as last year. However, the Kessner Index was replaced with the Adequacy of Prenatal Care Utilization Index to measure the adequacy of prenatal care. This change was instituted in accordance with the Year 2010 National Health Objective. Also, Table 22 was added this year to facilitate the comparison of past three-year average data among selected health status indicators.

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) were calculated to measure the reliability of the rates and percentages. Estimated rates and percentages which were categorized as unreliable (relative standard error  $\geq 23\%$ ) are marked on these tables with an “\*” (asterisk). In accordance with the National Center for Health Statistics, please note the criterion for unreliable rates and percentages changed this year from a relative standard error of greater than 30% to a relative standard error of greater than or equal to 23%. 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**” were 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 Center for Health Statistics, the Division of Communicable Disease Control, and the Office of AIDS of the Department of Health Services. In addition, the Demographic Research Unit and the Census Data Center of the Department of Finance provided the 1990 census data and the 1996 race/ethnic population estimates by county with age and sex detail, January 1998.

If you have questions about this report, or you want other 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, 1995-1997**

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

*The crude death rate from all causes for California was 688.0 per 100,000 population, a risk of dying equivalent to approximately one death for every 145 persons. This rate was based on a three-year average number of deaths of 222,790.7 from 1995 to 1997, and a population of 32,383,811 as of July 1, 1996. Among counties with "reliable" rates, the crude rate ranged from 1,391.4 in Lake County to 372.3 in Mono County, a difference in rates by a factor of 3.7 to 1.*

*The age-adjusted death rate from all causes for California for the three-year period from 1995 to 1997 was 439.9 per 100,000 population. Reliable age-adjusted death rates ranged from 573.2 in Trinity County to 293.1 in Mono County. The difference between crude and age-adjusted rates shows how the county age composition differs from the 1940 United States population (the "standard population").*

*A Year 2000 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 1940 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. (See additional Technical Notes in the Appendix, pages 59 through 66).

#### **DATA SOURCES**

Department of Health Services: Death Statistical Master Files, 1995-1997.

Department of Finance: 1996 Race/Ethnic Population by County with Age and Sex Detail, January 1998.

**TABLE 1**  
**DEATHS DUE TO ALL CAUSES**  
**RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE**  
**CALIFORNIA COUNTIES, 1995-1997**

| RANK ORDER  | COUNTY            | 1996 POPULATION   | 1995-1997 DEATHS (AVERAGE) | CRUDE DEATH RATE | AGE-ADJUSTED DEATH RATE | 95% CONFIDENCE LIMITS |              |
|---|-------------------|-------------------|----------------------------|------------------|-------------------------|-----------------------|--------------|
|   |                   |                   |                            |                  |                         | LOWER                 | UPPER        |
| <b>YEAR 2000 NATIONAL OBJECTIVE: NONE ESTABLISHED</b> |                   |                   |                            |                  |                         |                       |              |
| 1   | MONO              | 10,565            | 39.3                       | 372.3            | 293.1                   | 197.2                 | 389.0        |
| 2   | SIERRA            | 3,401             | 29.3                       | 862.5            | 329.9 *                 | 175.3                 | 484.6        |
| 3   | SAN BENITO        | 44,008            | 247.3                      | 562.0            | 343.3                   | 295.1                 | 391.5        |
| 4   | SANTA CLARA       | 1,638,352         | 8,743.3                    | 533.7            | 366.0                   | 357.8                 | 374.2        |
| 5   | NEVADA            | 87,001            | 792.0                      | 910.3            | 370.2                   | 336.6                 | 403.8        |
| 6   | LASSEN            | 32,631            | 182.3                      | 558.8            | 373.0                   | 313.0                 | 432.9        |
| 7   | SAN MATEO         | 698,042           | 4,934.3                    | 706.9            | 373.4                   | 361.5                 | 385.3        |
| 8   | SANTA BARBARA     | 393,716           | 2,789.0                    | 708.4            | 377.8                   | 361.4                 | 394.2        |
| 9   | MARIN             | 239,630           | 1,850.7                    | 772.3            | 382.8                   | 362.7                 | 402.8        |
| 10  | VENTURA           | 714,845           | 4,281.0                    | 598.9            | 383.7                   | 371.2                 | 396.3        |
| 11  | ALPINE            | 1,194             | 6.0                        | 502.5 *          | 387.5 *                 | 67.1                  | 707.9        |
| 12  | SANTA CRUZ        | 243,657           | 1,689.3                    | 693.3            | 389.1                   | 367.4                 | 410.8        |
| 13  | ORANGE            | 2,649,846         | 15,704.7                   | 592.7            | 396.3                   | 389.6                 | 403.0        |
| 14  | SAN LUIS OBISPO   | 230,691           | 1,902.3                    | 824.6            | 402.0                   | 380.0                 | 424.0        |
| 15  | EL DORADO         | 144,710           | 1,034.3                    | 714.8            | 407.0                   | 379.2                 | 434.7        |
| 16  | MONTEREY          | 360,253           | 2,266.0                    | 629.0            | 411.9                   | 393.0                 | 430.8        |
| 17  | PLACER            | 209,167           | 1,588.3                    | 759.4            | 412.4                   | 389.5                 | 435.3        |
| 18  | AMADOR            | 32,925            | 359.3                      | 1,091.4          | 420.4                   | 366.7                 | 474.2        |
| 19  | CONTRA COSTA      | 877,965           | 6,345.3                    | 722.7            | 424.2                   | 412.7                 | 435.8        |
| 20  | SAN DIEGO         | 2,694,956         | 18,382.7                   | 682.1            | 430.8                   | 423.7                 | 437.9        |
| 21  | SONOMA            | 424,481           | 3,619.0                    | 852.6            | 435.5                   | 418.6                 | 452.4        |
| 22  | TUOLUMNE          | 51,583            | 502.0                      | 973.2            | 436.2                   | 389.6                 | 482.7        |
|   | <b>CALIFORNIA</b> | <b>32,383,811</b> | <b>222,790.7</b>           | <b>688.0</b>     | <b>439.9</b>            | <b>437.9</b>          | <b>441.9</b> |
| 23  | NAPA              | 118,949           | 1,264.3                    | 1,062.9          | 440.4                   | 410.3                 | 470.6        |
| 24  | IMPERIAL          | 141,229           | 826.0                      | 584.9            | 443.1                   | 409.6                 | 476.5        |
| 25  | LOS ANGELES       | 9,396,389         | 60,236.3                   | 641.1            | 445.9                   | 442.0                 | 449.9        |
| 26  | MADERA            | 110,298           | 789.0                      | 715.3            | 447.8                   | 412.6                 | 483.0        |
| 27  | MARIPOSA          | 15,965            | 165.7                      | 1,037.7          | 452.1                   | 364.8                 | 539.4        |
| 28  | ALAMEDA           | 1,365,041         | 9,722.7                    | 712.3            | 454.8                   | 444.8                 | 464.9        |
| 29  | RIVERSIDE         | 1,393,289         | 11,096.0                   | 796.4            | 455.0                   | 445.1                 | 465.0        |
| 30  | CALAVERAS         | 36,881            | 373.7                      | 1,013.2          | 457.0                   | 398.9                 | 515.1        |
| 31  | SUTTER            | 74,591            | 612.3                      | 820.9            | 457.7                   | 416.5                 | 498.8        |
| 32  | PLUMAS            | 20,239            | 207.7                      | 1,026.1          | 458.6                   | 380.8                 | 536.5        |
| 33  | FRESNO            | 769,709           | 5,205.3                    | 676.3            | 461.3                   | 447.2                 | 475.4        |
| 34  | INYO              | 18,225            | 224.3                      | 1,230.9          | 466.4                   | 387.4                 | 545.4        |
| 35  | YOLO              | 152,535           | 1,022.0                    | 670.0            | 466.9                   | 435.1                 | 498.8        |
| 36  | GLENN             | 26,699            | 232.3                      | 870.2            | 471.4                   | 400.0                 | 542.8        |
| 37  | COLUSA            | 18,197            | 146.0                      | 802.3            | 473.6                   | 385.2                 | 562.0        |
| 38  | BUTTE             | 196,522           | 2,143.0                    | 1,090.5          | 474.5                   | 448.7                 | 500.3        |
| 39  | SAN JOAQUIN       | 533,177           | 3,994.3                    | 749.2            | 479.6                   | 462.8                 | 496.4        |
| 40  | TEHAMA            | 54,353            | 583.7                      | 1,073.8          | 483.9                   | 435.9                 | 531.9        |
| 41  | SOLANO            | 372,493           | 2,338.0                    | 627.7            | 488.7                   | 467.8                 | 509.6        |
| 42  | SACRAMENTO        | 1,132,189         | 8,529.0                    | 753.3            | 489.1                   | 477.7                 | 500.5        |
| 43  | SAN FRANCISCO     | 768,263           | 7,358.3                    | 957.8            | 489.2                   | 475.9                 | 502.5        |
| 44  | MERCED            | 198,390           | 1,291.7                    | 651.1            | 491.2                   | 462.0                 | 520.3        |
| 45  | KERN              | 624,092           | 4,428.7                    | 709.6            | 496.2                   | 480.1                 | 512.4        |
| 46  | STANISLAUS        | 418,455           | 3,194.3                    | 763.4            | 498.0                   | 478.6                 | 517.3        |
| 47  | TULARE            | 353,645           | 2,600.7                    | 735.4            | 498.9                   | 477.3                 | 520.5        |
| 48  | KINGS             | 115,774           | 698.0                      | 602.9            | 499.5                   | 459.5                 | 539.5        |
| 49  | MENDOCINO         | 84,817            | 799.3                      | 942.4            | 499.8                   | 459.6                 | 540.0        |
| 50  | MODOC             | 10,028            | 109.0                      | 1,087.0          | 503.0                   | 382.3                 | 623.7        |
| 51  | SAN BERNARDINO    | 1,592,711         | 10,452.7                   | 656.3            | 513.3                   | 502.7                 | 523.9        |
| 52  | HUMBOLDT          | 125,100           | 1,109.0                    | 886.5            | 514.7                   | 480.2                 | 549.1        |
| 53  | SISKIYOU          | 43,945            | 512.3                      | 1,165.9          | 518.0                   | 463.2                 | 572.8        |
| 54  | DEL NORTE         | 27,527            | 241.7                      | 877.9            | 521.5                   | 445.2                 | 597.9        |
| 55  | SHASTA            | 161,688           | 1,610.3                    | 996.0            | 522.0                   | 492.5                 | 551.5        |
| 56  | LAKE              | 54,884            | 763.7                      | 1,391.4          | 561.4                   | 509.6                 | 613.3        |
| 57  | YUBA              | 60,575            | 475.0                      | 784.2            | 570.8                   | 514.4                 | 627.1        |
| 58  | TRINITY           | 13,328            | 146.3                      | 1,097.9          | 573.2                   | 463.4                 | 683.0        |

## **TABLE 2: DEATHS DUE TO MOTOR VEHICLE CRASHES, 1995-1997**

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

*The crude death rate from motor vehicle crashes for California was 12.5 per 100,000 population, a risk of dying equivalent to approximately one death for every 8,020 persons. This rate was based on a three-year average number of deaths of 4,037.7 from 1995 to 1997 and a population of 32,383,811 as of July 1, 1996. Among counties with "reliable" rates, the crude rate ranged from 29.9 in Madera County to 6.7 in San Mateo County, a difference in rates by a factor of 4.5 to 1.*

*The age-adjusted death rate from motor vehicle crashes for California for the three-year period from 1995 to 1997 was 12.4 per 100,000 population. Reliable age-adjusted death rates ranged from 29.2 in Madera County to 6.4 in San Mateo County. The difference between crude and age-adjusted rates shows how the county age composition differs from the 1940 United States population.*

*Altogether 20 counties (16 with reliable age-adjusted death rates) and California as a whole met the revised Year 2000 National Objective of 14.2 deaths 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 1940 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. (See Technical Notes in the Appendix, pages 59 through 66).

### **DATA SOURCES**

Department of Health Services: Death Statistical Master Files, 1995-1997.

Department of Finance: 1996 Race/Ethnic Population by County with Age and Sex Detail, January 1998.

**TABLE 2  
DEATHS DUE TO MOTOR VEHICLE CRASHES  
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE  
CALIFORNIA COUNTIES, 1995-1997**

| RANK ORDER | COUNTY                               | 1996 POPULATION   | 1995-1997 DEATHS (AVERAGE) | CRUDE DEATH RATE | AGE-ADJUSTED DEATH RATE | 95% CONFIDENCE LIMITS |             |
|------------|--------------------------------------|-------------------|----------------------------|------------------|-------------------------|-----------------------|-------------|
|            |                                      |                   |                            |                  |                         | LOWER                 | UPPER       |
| 1          | SIERRA                               | 3,401             | 0.0                        | 0.0 +            | 0.0 +                   | -                     | -           |
| 2          | SAN MATEO                            | 698,042           | 46.7                       | 6.7              | 6.4                     | 4.4                   | 8.3         |
| 3          | SAN FRANCISCO                        | 768,263           | 61.3                       | 8.0              | 7.3                     | 5.2                   | 9.4         |
| 4          | SANTA CLARA                          | 1,638,352         | 133.7                      | 8.2              | 8.1                     | 6.7                   | 9.6         |
| 5          | MARIN                                | 239,630           | 18.7                       | 7.8 *            | 8.3 *                   | 4.1                   | 12.4        |
| 6          | ALAMEDA                              | 1,365,041         | 114.0                      | 8.4              | 8.3                     | 6.7                   | 9.9         |
| 7          | NAPA                                 | 118,949           | 11.7                       | 9.8 *            | 8.5 *                   | 3.1                   | 13.9        |
| 8          | ORANGE                               | 2,649,846         | 228.0                      | 8.6              | 8.7                     | 7.5                   | 9.9         |
| 9          | CONTRA COSTA                         | 877,965           | 78.3                       | 8.9              | 8.8                     | 6.7                   | 10.8        |
| 10         | SANTA BARBARA                        | 393,716           | 37.7                       | 9.6              | 9.1                     | 6.1                   | 12.2        |
| 11         | SAN DIEGO                            | 2,694,956         | 269.0                      | 10.0             | 9.6                     | 8.4                   | 10.7        |
| 12         | LOS ANGELES                          | 9,396,389         | 992.0                      | 10.6             | 10.6                    | 9.9                   | 11.3        |
| 13         | SANTA CRUZ                           | 243,657           | 26.7                       | 10.9             | 11.0                    | 6.6                   | 15.3        |
| 14         | VENTURA                              | 714,845           | 79.0                       | 11.1             | 11.0                    | 8.5                   | 13.5        |
| 15         | YOLO                                 | 152,535           | 18.7                       | 12.2 *           | 11.2 *                  | 6.0                   | 16.5        |
| 16         | SAN LUIS OBISPO                      | 230,691           | 28.7                       | 12.4             | 11.9                    | 7.4                   | 16.4        |
|            | <b>CALIFORNIA</b>                    | <b>32,383,811</b> | <b>4,037.7</b>             | <b>12.5</b>      | <b>12.4</b>             | <b>12.0</b>           | <b>12.8</b> |
| 17         | SOLANO                               | 372,493           | 46.7                       | 12.5             | 13.0                    | 9.2                   | 16.8        |
| 18         | PLACER                               | 209,167           | 28.0                       | 13.4             | 13.5                    | 8.2                   | 18.8        |
| 19         | SACRAMENTO                           | 1,132,189         | 155.0                      | 13.7             | 13.7                    | 11.5                  | 15.9        |
| 20         | SONOMA                               | 424,481           | 60.3                       | 14.2             | 14.2                    | 10.4                  | 18.0        |
|            | <b>YEAR 2000 NATIONAL OBJECTIVE:</b> |                   |                            |                  |                         | <b>14.2</b>           |             |
| 21         | LAKE                                 | 54,884            | 9.7                        | 17.6 *           | 14.3 *                  | 3.9                   | 24.7        |
| 22         | MONTEREY                             | 360,253           | 52.3                       | 14.5             | 14.5                    | 10.4                  | 18.6        |
| 23         | AMADOR                               | 32,925            | 6.7                        | 20.2 *           | 15.1 *                  | 1.3                   | 28.9        |
| 24         | LASSEN                               | 32,631            | 6.0                        | 18.4 *           | 17.1 *                  | 3.2                   | 31.0        |
| 25         | SAN BERNARDINO                       | 1,592,711         | 263.0                      | 16.5             | 17.3                    | 15.1                  | 19.4        |
| 26         | RIVERSIDE                            | 1,393,289         | 252.7                      | 18.1             | 18.3                    | 15.9                  | 20.6        |
| 27         | SAN JOAQUIN                          | 533,177           | 99.0                       | 18.6             | 18.5                    | 14.7                  | 22.2        |
| 28         | NEVADA                               | 87,001            | 15.3                       | 17.6 *           | 18.5 *                  | 8.5                   | 28.5        |
| 29         | KERN                                 | 624,092           | 113.3                      | 18.2             | 18.6                    | 15.1                  | 22.1        |
| 30         | EL DORADO                            | 144,710           | 29.0                       | 20.0             | 18.7                    | 11.4                  | 25.9        |
| 31         | SHASTA                               | 161,688           | 33.3                       | 20.6             | 20.4                    | 13.1                  | 27.7        |
| 32         | IMPERIAL                             | 141,229           | 30.7                       | 21.7             | 20.6                    | 13.0                  | 28.1        |
| 33         | STANISLAUS                           | 418,455           | 86.3                       | 20.6             | 20.8                    | 16.3                  | 25.3        |
| 34         | PLUMAS                               | 20,239            | 5.0                        | 24.7 *           | 21.5 *                  | 0.0                   | 42.9        |
| 35         | BUTTE                                | 196,522           | 40.3                       | 20.5             | 21.5                    | 14.5                  | 28.6        |
| 36         | TUOLUMNE                             | 51,583            | 13.3                       | 25.8 *           | 22.2 *                  | 9.0                   | 35.3        |
| 37         | ALPINE                               | 1,194             | 0.3                        | 27.9 *           | 22.4 *                  | 0.0                   | 98.5        |
| 38         | KINGS                                | 115,774           | 26.0                       | 22.5             | 22.4                    | 13.7                  | 31.2        |
| 39         | HUMBOLDT                             | 125,100           | 29.0                       | 23.2             | 22.5                    | 14.0                  | 31.0        |
| 40         | SAN BENITO                           | 44,008            | 10.0                       | 22.7 *           | 22.5 *                  | 8.3                   | 36.7        |
| 41         | FRESNO                               | 769,709           | 177.7                      | 23.1             | 23.6                    | 20.0                  | 27.2        |
| 42         | SISKIYOU                             | 43,945            | 10.3                       | 23.5 *           | 23.8 *                  | 8.4                   | 39.2        |
| 43         | MONO                                 | 10,565            | 2.7                        | 25.2 *           | 24.0 *                  | 0.0                   | 53.2        |
| 44         | MERCED                               | 198,390           | 45.7                       | 23.0             | 24.1                    | 17.0                  | 31.2        |
| 45         | MENDOCINO                            | 84,817            | 21.3                       | 25.2             | 25.1                    | 13.9                  | 36.4        |
| 46         | TULARE                               | 353,645           | 87.7                       | 24.8             | 25.4                    | 20.0                  | 30.9        |
| 47         | GLENN                                | 26,699            | 6.7                        | 25.0 *           | 25.8 *                  | 5.9                   | 45.7        |
| 48         | SUTTER                               | 74,591            | 19.3                       | 25.9             | 26.6 *                  | 14.4                  | 38.9        |
| 49         | INYO                                 | 18,225            | 6.0                        | 32.9 *           | 26.8 *                  | 0.6                   | 53.0        |
| 50         | TEHAMA                               | 54,353            | 15.0                       | 27.6 *           | 27.6 *                  | 12.7                  | 42.5        |
| 51         | YUBA                                 | 60,575            | 16.0                       | 26.4 *           | 27.8 *                  | 13.8                  | 41.8        |
| 52         | MADERA                               | 110,298           | 33.0                       | 29.9             | 29.2                    | 18.9                  | 39.5        |
| 53         | DEL NORTE                            | 27,527            | 9.0                        | 32.7 *           | 31.4 *                  | 9.9                   | 52.9        |
| 54         | TRINITY                              | 13,328            | 4.0                        | 30.0 *           | 33.0 *                  | 0.0                   | 68.0        |
| 55         | MARIPOSA                             | 15,965            | 6.0                        | 37.6 *           | 33.1 *                  | 2.7                   | 63.4        |
| 56         | MODOC                                | 10,028            | 3.0                        | 29.9 *           | 33.5 *                  | 0.0                   | 73.9        |
| 57         | COLUSA                               | 18,197            | 6.3                        | 34.8 *           | 35.0 *                  | 6.9                   | 63.2        |
| 58         | CALAVERAS                            | 36,881            | 12.7                       | 34.3 *           | 35.9 *                  | 13.3                  | 58.4        |

### **TABLE 3: DEATHS DUE TO UNINTENTIONAL INJURIES, 1995-1997**

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

*The crude death rate from unintentional injuries for California was 28.2 per 100,000 population, a risk of dying equivalent to approximately one death for every 3,552 persons. This rate was based on a three-year average number of deaths of 9,117.0 from 1995 to 1997 and a population of 32,383,811 as of July 1, 1996. Among counties with "reliable" rates, the crude rate ranged from 54.4 in Humboldt County to 19.4 in Santa Clara County, a difference in rates by a factor of 2.8 to 1.*

*The age-adjusted death rate from unintentional injuries for California for the three-year period from 1995 to 1997 was 25.7 per 100,000 population. Reliable age-adjusted death rates ranged from 50.9 in Humboldt County to 17.5 in Santa Clara County. The difference between crude and age-adjusted rates shows how the county age composition differs from the 1940 United States population.*

*Altogether 22 counties (19 with reliable age-adjusted death rates) and California as a whole met the Year 2000 National Objective of 29.3 deaths 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 1940 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. (See Technical Notes in the Appendix, pages 59 through 66).

#### **DATA SOURCES**

Department of Health Services: Death Statistical Master Files, 1995-1997.

Department of Finance: 1996 Race/Ethnic Population by County with Age and Sex Detail, January 1998.

**TABLE 3**  
**DEATHS DUE TO UNINTENTIONAL INJURIES**  
**RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE**  
**CALIFORNIA COUNTIES, 1995-1997**

| RANK ORDER | COUNTY                               | 1996 POPULATION   | 1995-1997 DEATHS (AVERAGE) | CRUDE DEATH RATE | AGE-ADJUSTED DEATH RATE | 95% CONFIDENCE LIMITS |             |
|------------|--------------------------------------|-------------------|----------------------------|------------------|-------------------------|-----------------------|-------------|
|            |                                      |                   |                            |                  |                         | LOWER                 | UPPER       |
| 1          | SANTA CLARA                          | 1,638,352         | 317.3                      | 19.4             | 17.5                    | 15.4                  | 19.5        |
| 2          | MARIN                                | 239,630           | 55.3                       | 23.1             | 18.0                    | 12.5                  | 23.5        |
| 3          | SAN MATEO                            | 698,042           | 151.3                      | 21.7             | 18.3                    | 15.1                  | 21.4        |
| 4          | ORANGE                               | 2,649,846         | 575.0                      | 21.7             | 19.5                    | 17.9                  | 21.2        |
| 5          | CONTRA COSTA                         | 877,965           | 211.0                      | 24.0             | 21.2                    | 18.1                  | 24.2        |
| 6          | NAPA                                 | 118,949           | 36.0                       | 30.3             | 21.9                    | 13.5                  | 30.3        |
| 7          | LOS ANGELES                          | 9,396,389         | 2,187.7                    | 23.3             | 21.9                    | 21.0                  | 22.9        |
| 8          | ALPINE                               | 1,194             | 0.3                        | 27.9 *           | 22.4 *                  | 0.0                   | 98.5        |
| 9          | ALAMEDA                              | 1,365,041         | 345.3                      | 25.3             | 22.5                    | 20.0                  | 25.1        |
| 10         | SAN DIEGO                            | 2,694,956         | 678.3                      | 25.2             | 22.7                    | 20.9                  | 24.6        |
| 11         | SANTA CRUZ                           | 243,657           | 66.0                       | 27.1             | 23.3                    | 17.3                  | 29.4        |
| 12         | VENTURA                              | 714,845           | 192.7                      | 27.0             | 23.6                    | 20.0                  | 27.1        |
| 13         | YOLO                                 | 152,535           | 41.0                       | 26.9             | 23.6                    | 16.0                  | 31.2        |
| 14         | LASSEN                               | 32,631            | 9.7                        | 29.6 *           | 25.1 *                  | 8.6                   | 41.6        |
| 15         | SANTA BARBARA                        | 393,716           | 123.0                      | 31.2             | 25.3                    | 20.5                  | 30.2        |
|            | <b>CALIFORNIA</b>                    | <b>32,383,811</b> | <b>9,117.0</b>             | <b>28.2</b>      | <b>25.7</b>             | <b>25.1</b>           | <b>26.2</b> |
| 16         | PLACER                               | 209,167           | 60.7                       | 29.0             | 25.8                    | 18.7                  | 32.9        |
| 17         | SACRAMENTO                           | 1,132,189         | 324.3                      | 28.6             | 26.5                    | 23.4                  | 29.5        |
| 18         | SOLANO                               | 372,493           | 106.3                      | 28.5             | 27.3                    | 21.9                  | 32.6        |
| 19         | AMADOR                               | 32,925            | 13.3                       | 40.5 *           | 28.4 *                  | 9.5                   | 47.3        |
| 20         | SAN BERNARDINO                       | 1,592,711         | 462.7                      | 29.0             | 28.7                    | 26.0                  | 31.4        |
| 21         | SONOMA                               | 424,481           | 137.7                      | 32.4             | 28.8                    | 23.6                  | 34.0        |
| 22         | MONTEREY                             | 360,253           | 110.7                      | 30.7             | 29.1                    | 23.4                  | 34.8        |
|            | <b>YEAR 2000 NATIONAL OBJECTIVE:</b> |                   |                            |                  |                         | <b>29.3</b>           |             |
| 23         | SAN LUIS OBISPO                      | 230,691           | 85.0                       | 36.8             | 29.5                    | 22.6                  | 36.4        |
| 24         | SAN FRANCISCO                        | 768,263           | 307.3                      | 40.0             | 31.6                    | 27.7                  | 35.6        |
| 25         | RIVERSIDE                            | 1,393,289         | 502.7                      | 36.1             | 33.3                    | 30.2                  | 36.4        |
| 26         | PLUMAS                               | 20,239            | 9.0                        | 44.5 *           | 35.6 *                  | 8.3                   | 63.0        |
| 27         | SAN JOAQUIN                          | 533,177           | 205.7                      | 38.6             | 35.7                    | 30.6                  | 40.8        |
| 28         | EL DORADO                            | 144,710           | 57.7                       | 39.8             | 35.7                    | 25.8                  | 45.6        |
| 29         | SIERRA                               | 3,401             | 1.0                        | 29.4 *           | 36.1 *                  | 0.0                   | 115.2       |
| 30         | GLENN                                | 26,699            | 12.3                       | 46.2 *           | 36.4 *                  | 13.8                  | 59.1        |
| 31         | KINGS                                | 115,774           | 44.7                       | 38.6             | 37.2                    | 26.0                  | 48.4        |
| 32         | NEVADA                               | 87,001            | 36.7                       | 42.1             | 37.6                    | 23.7                  | 51.5        |
| 33         | KERN                                 | 624,092           | 246.7                      | 39.5             | 38.0                    | 33.1                  | 42.9        |
| 34         | SAN BENITO                           | 44,008            | 17.7                       | 40.1 *           | 38.2 *                  | 19.9                  | 56.5        |
| 35         | FRESNO                               | 769,709           | 306.7                      | 39.8             | 38.5                    | 34.0                  | 43.0        |
| 36         | STANISLAUS                           | 418,455           | 173.3                      | 41.4             | 38.8                    | 32.7                  | 44.8        |
| 37         | SHASTA                               | 161,688           | 71.7                       | 44.3             | 38.8                    | 29.0                  | 48.7        |
| 38         | TEHAMA                               | 54,353            | 25.0                       | 46.0             | 38.9                    | 21.8                  | 56.1        |
| 39         | MERCED                               | 198,390           | 81.0                       | 40.8             | 39.8                    | 30.9                  | 48.8        |
| 40         | LAKE                                 | 54,884            | 28.3                       | 51.6             | 40.2                    | 22.8                  | 57.7        |
| 41         | BUTTE                                | 196,522           | 92.7                       | 47.2             | 40.6                    | 31.3                  | 50.0        |
| 42         | SISKIYOU                             | 43,945            | 22.0                       | 50.1             | 41.6 *                  | 22.1                  | 61.2        |
| 43         | MONO                                 | 10,565            | 4.7                        | 44.2 *           | 41.9 *                  | 3.1                   | 80.7        |
| 44         | TUOLUMNE                             | 51,583            | 26.0                       | 50.4             | 42.5                    | 24.3                  | 60.7        |
| 45         | SUTTER                               | 74,591            | 33.0                       | 44.2             | 42.6                    | 27.5                  | 57.7        |
| 46         | IMPERIAL                             | 141,229           | 72.0                       | 51.0             | 43.2                    | 32.2                  | 54.3        |
| 47         | MADERA                               | 110,298           | 54.7                       | 49.6             | 45.6                    | 32.9                  | 58.3        |
| 48         | TULARE                               | 353,645           | 167.3                      | 47.3             | 46.0                    | 38.7                  | 53.2        |
| 49         | CALAVERAS                            | 36,881            | 18.7                       | 50.6 *           | 48.0 *                  | 23.1                  | 73.0        |
| 50         | MENDOCINO                            | 84,817            | 45.7                       | 53.8             | 48.1                    | 32.8                  | 63.3        |
| 51         | YUBA                                 | 60,575            | 30.0                       | 49.5             | 49.4                    | 31.0                  | 67.8        |
| 52         | DEL NORTE                            | 27,527            | 14.3                       | 52.1 *           | 50.7 *                  | 23.3                  | 78.1        |
| 53         | HUMBOLDT                             | 125,100           | 68.0                       | 54.4             | 50.9                    | 38.2                  | 63.5        |
| 54         | COLUSA                               | 18,197            | 10.7                       | 58.6 *           | 52.7 *                  | 18.8                  | 86.6        |
| 55         | INYO                                 | 18,225            | 12.3                       | 67.7 *           | 53.0 *                  | 17.5                  | 88.5        |
| 56         | MARIPOSA                             | 15,965            | 9.7                        | 60.5 *           | 58.6 *                  | 16.8                  | 100.5       |
| 57         | TRINITY                              | 13,328            | 9.3                        | 70.0 *           | 64.2 *                  | 17.6                  | 110.8       |
| 58         | MODOC                                | 10,028            | 8.0                        | 79.8 *           | 64.6 *                  | 11.0                  | 118.2       |

## **TABLE 4: DEATHS DUE TO FIREARM INJURIES, 1995-1997**

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

*The crude death rate from firearm injuries for California was 12.9 per 100,000 population, a risk of dying equivalent to approximately one death for every 7,771 persons. This rate was based on a three-year average number of deaths of 4,167.0 from 1995 to 1997 and a population of 32,383,811 as of July 1, 1996. Among counties with "reliable" rates, the crude rate ranged from 18.1 in Shasta County to 5.3 in Santa Clara County, a difference in rates by a factor of 3.4 to 1.*

*The age-adjusted death rate from firearm injuries for California for the three-year period from 1995 to 1997 was 13.5 per 100,000 population. Reliable age-adjusted death rates ranged from 19.1 in Los Angeles County to 5.5 in Santa Clara County. The difference between crude and age-adjusted rates shows how the county age composition differs from the 1940 United States population.*

*Altogether 31 counties (13 with reliable age-adjusted death rates), but not California, met the Year 2000 National Objective of 11.6 deaths due to firearm-related injuries per 100,000 population.*

### **Notes:**

This Year 2000 National Objective was revised from weapon-related deaths to firearm-related deaths. 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 1940 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. (See Technical Notes in the Appendix, pages 59 through 66).

### **DATA SOURCES**

Department of Health Services: Death Statistical Master Files, 1995-1997.

Department of Finance: 1996 Race/Ethnic Population by County with Age and Sex Detail, January 1998.

**TABLE 4**  
**DEATHS DUE TO FIREARM INJURIES**  
**RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE**  
**CALIFORNIA COUNTIES, 1995-1997**

| RANK ORDER                           | COUNTY          | 1996 POPULATION   | 1995-1997 DEATHS (AVERAGE) | CRUDE DEATH RATE | AGE-ADJUSTED DEATH RATE | 95% CONFIDENCE LIMITS |             |
|--------------------------------------|-----------------|-------------------|----------------------------|------------------|-------------------------|-----------------------|-------------|
|                                      |                 |                   |                            |                  |                         | LOWER                 | UPPER       |
| 1                                    | ALPINE          | 1,194             | 0.0                        | 0.0 +            | 0.0 +                   | -                     | -           |
| 2                                    | SAN BENITO      | 44,008            | 2.0                        | 4.5 *            | 4.3 *                   | 0.0                   | 10.6        |
| 3                                    | SANTA CRUZ      | 243,657           | 15.0                       | 6.2 *            | 5.3 *                   | 2.4                   | 8.2         |
| 4                                    | MONO            | 10,565            | 0.7                        | 6.3 *            | 5.4 *                   | 0.0                   | 18.2        |
| 5                                    | SANTA CLARA     | 1,638,352         | 86.3                       | 5.3              | 5.5                     | 4.3                   | 6.7         |
| 6                                    | NAPA            | 118,949           | 9.0                        | 7.6 *            | 5.8 *                   | 1.6                   | 10.1        |
| 7                                    | SANTA BARBARA   | 393,716           | 26.0                       | 6.6              | 5.9                     | 3.5                   | 8.3         |
| 8                                    | MARIN           | 239,630           | 17.7                       | 7.4 *            | 6.2 *                   | 3.0                   | 9.4         |
| 9                                    | AMADOR          | 32,925            | 3.0                        | 9.1 *            | 6.7 *                   | 0.0                   | 15.1        |
| 10                                   | IMPERIAL        | 141,229           | 10.0                       | 7.1 *            | 7.2 *                   | 2.7                   | 11.8        |
| 11                                   | GLENN           | 26,699            | 2.0                        | 7.5 *            | 7.6 *                   | 0.0                   | 18.1        |
| 12                                   | SAN MATEO       | 698,042           | 53.3                       | 7.6              | 7.6                     | 5.4                   | 9.8         |
| 13                                   | SAN LUIS OBISPO | 230,691           | 22.3                       | 9.7              | 8.3                     | 4.6                   | 12.0        |
| 14                                   | VENTURA         | 714,845           | 60.0                       | 8.4              | 8.4                     | 6.2                   | 10.6        |
| 15                                   | YOLO            | 152,535           | 14.3                       | 9.4 *            | 8.7 *                   | 4.1                   | 13.4        |
| 16                                   | MERCED          | 198,390           | 16.7                       | 8.4 *            | 8.8 *                   | 4.5                   | 13.1        |
| 17                                   | ORANGE          | 2,649,846         | 221.3                      | 8.4              | 9.0                     | 7.7                   | 10.2        |
| 18                                   | TUOLUMNE        | 51,583            | 6.0                        | 11.6 *           | 9.1 *                   | 0.8                   | 17.3        |
| 19                                   | DEL NORTE       | 27,527            | 3.3                        | 12.1 *           | 9.1 *                   | 0.0                   | 19.6        |
| 20                                   | INYO            | 18,225            | 2.3                        | 12.8 *           | 9.2 *                   | 0.0                   | 21.9        |
| 21                                   | NEVADA          | 87,001            | 9.7                        | 11.1 *           | 9.4 *                   | 2.4                   | 16.3        |
| 22                                   | SAN DIEGO       | 2,694,956         | 271.0                      | 10.1             | 9.6                     | 8.4                   | 10.8        |
| 23                                   | SONOMA          | 424,481           | 42.0                       | 9.9              | 9.7                     | 6.6                   | 12.9        |
| 24                                   | SAN FRANCISCO   | 768,263           | 78.0                       | 10.2             | 10.4                    | 7.8                   | 13.0        |
| 25                                   | PLACER          | 209,167           | 23.7                       | 11.3             | 10.4                    | 6.0                   | 14.9        |
| 26                                   | KINGS           | 115,774           | 12.3                       | 10.7 *           | 10.6 *                  | 4.6                   | 16.7        |
| 27                                   | SOLANO          | 372,493           | 40.0                       | 10.7             | 11.1                    | 7.6                   | 14.7        |
| 28                                   | LASSEN          | 32,631            | 4.0                        | 12.3 *           | 11.2 *                  | 0.1                   | 22.3        |
| 29                                   | MONTEREY        | 360,253           | 37.3                       | 10.4             | 11.3                    | 7.5                   | 15.1        |
| 30                                   | EL DORADO       | 144,710           | 18.3                       | 12.7 *           | 11.5 *                  | 5.8                   | 17.2        |
| 31                                   | STANISLAUS      | 418,455           | 48.0                       | 11.5             | 11.6                    | 8.2                   | 15.0        |
| <b>YEAR 2000 NATIONAL OBJECTIVE:</b> |                 |                   |                            |                  | <b>11.6</b>             |                       |             |
| 32                                   | MARIPOSA        | 15,965            | 2.0                        | 12.5 *           | 12.5 *                  | 0.0                   | 32.5        |
| 33                                   | TEHAMA          | 54,353            | 7.3                        | 13.5 *           | 12.5 *                  | 2.5                   | 22.5        |
| 34                                   | SUTTER          | 74,591            | 10.7                       | 14.3 *           | 13.3 *                  | 4.9                   | 21.7        |
| 35                                   | MADERA          | 110,298           | 15.0                       | 13.6 *           | 13.3 *                  | 6.4                   | 20.3        |
| 36                                   | TULARE          | 353,645           | 45.7                       | 12.9             | 13.4                    | 9.4                   | 17.4        |
| 37                                   | BUTTE           | 196,522           | 30.0                       | 15.3             | 13.5                    | 8.2                   | 18.8        |
| <b>CALIFORNIA</b>                    |                 | <b>32,383,811</b> | <b>4,167.0</b>             | <b>12.9</b>      | <b>13.5</b>             | <b>13.1</b>           | <b>13.9</b> |
| 38                                   | CONTRA COSTA    | 877,965           | 115.7                      | 13.2             | 14.0                    | 11.3                  | 16.7        |
| 39                                   | RIVERSIDE       | 1,393,289         | 190.0                      | 13.6             | 14.0                    | 11.9                  | 16.1        |
| 40                                   | ALAMEDA         | 1,365,041         | 179.0                      | 13.1             | 14.0                    | 11.9                  | 16.2        |
| 41                                   | KERN            | 624,092           | 86.7                       | 13.9             | 14.5                    | 11.4                  | 17.6        |
| 42                                   | SACRAMENTO      | 1,132,189         | 160.0                      | 14.1             | 14.6                    | 12.3                  | 17.0        |
| 43                                   | HUMBOLDT        | 125,100           | 19.7                       | 15.7             | 14.6 *                  | 7.9                   | 21.3        |
| 44                                   | CALAVERAS       | 36,881            | 6.7                        | 18.1 *           | 14.7 *                  | 2.1                   | 27.3        |
| 45                                   | LAKE            | 54,884            | 10.3                       | 18.8 *           | 14.8 *                  | 4.5                   | 25.0        |
| 46                                   | MENDOCINO       | 84,817            | 14.7                       | 17.3 *           | 15.1 *                  | 6.9                   | 23.4        |
| 47                                   | YUBA            | 60,575            | 9.0                        | 14.9 *           | 15.1 *                  | 4.9                   | 25.4        |
| 48                                   | COLUSA          | 18,197            | 3.0                        | 16.5 *           | 15.3 *                  | 0.0                   | 33.7        |
| 49                                   | SIERRA          | 3,401             | 0.7                        | 19.6 *           | 15.6 *                  | 0.0                   | 52.9        |
| 50                                   | SISKIYOU        | 43,945            | 7.7                        | 17.4 *           | 16.0 *                  | 4.0                   | 27.9        |
| 51                                   | SAN BERNARDINO  | 1,592,711         | 244.7                      | 15.4             | 16.4                    | 14.3                  | 18.5        |
| 52                                   | SAN JOAQUIN     | 533,177           | 82.7                       | 15.5             | 16.6                    | 12.9                  | 20.2        |
| 53                                   | FRESNO          | 769,709           | 119.7                      | 15.5             | 16.7                    | 13.6                  | 19.7        |
| 54                                   | SHASTA          | 161,688           | 29.3                       | 18.1             | 17.1                    | 10.5                  | 23.7        |
| 55                                   | LOS ANGELES     | 9,396,389         | 1,610.0                    | 17.1             | 19.1                    | 18.2                  | 20.1        |
| 56                                   | MODOC           | 10,028            | 2.0                        | 19.9 *           | 20.8 *                  | 0.0                   | 50.0        |
| 57                                   | PLUMAS          | 20,239            | 5.0                        | 24.7 *           | 23.5 *                  | 0.1                   | 46.8        |
| 58                                   | TRINITY         | 13,328            | 4.3                        | 32.5 *           | 35.2 *                  | 0.0                   | 72.1        |



## **TABLE 5: DEATHS DUE TO HOMICIDE, 1995-1997**

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

*The crude death rate from homicide for California was 9.7 per 100,000 population, a risk of dying equivalent to approximately one death for every 10,324 persons. This rate was based on a three-year average number of deaths of 3,136.7 from 1995 to 1997 and a population of 32,383,811 as of July 1, 1996. Among counties with "reliable" rates, the crude rate ranged from 15.6 in Los Angeles County to 3.3 in Santa Clara County, a difference in rates by a factor of 4.7 to 1.*

*The age-adjusted death rate from homicide for California for the three-year period from 1995 to 1997 was 10.6 per 100,000 population. Reliable age-adjusted death rates ranged from 17.7 in Los Angeles County to 3.6 in Santa Clara County. The difference between crude and age-adjusted rates shows how the county age composition differs from the 1940 United States population.*

*Altogether 32 counties (5 with reliable age-adjusted death rates), but not California, met the Year 2000 National Objective of 7.2 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 1940 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. (See Technical Notes in the Appendix, pages 59 through 66).

### **DATA SOURCES**

Department of Health Services: Death Statistical Master Files, 1995-1997.

Department of Finance: 1996 Race/Ethnic Population by County with Age and Sex Detail, January 1998.

**TABLE 5**  
**DEATHS DUE TO HOMICIDE**  
**RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE**  
**CALIFORNIA COUNTIES, 1995-1997**

| RANK ORDER                           | COUNTY          | 1996 POPULATION   | 1995-1997 DEATHS (AVERAGE) | CRUDE DEATH RATE | AGE-ADJUSTED DEATH RATE | 95% CONFIDENCE LIMITS |             |
|--------------------------------------|-----------------|-------------------|----------------------------|------------------|-------------------------|-----------------------|-------------|
|                                      |                 |                   |                            |                  |                         | LOWER                 | UPPER       |
| 1                                    | AMADOR          | 32,925            | 0.0                        | 0.0 +            | 0.0 +                   | -                     | -           |
| 2                                    | MODOC           | 10,028            | 0.0                        | 0.0 +            | 0.0 +                   | -                     | -           |
| 3                                    | SIERRA          | 3,401             | 0.0                        | 0.0 +            | 0.0 +                   | -                     | -           |
| 4                                    | ALPINE          | 1,194             | 0.0                        | 0.0 +            | 0.0 +                   | -                     | -           |
| 5                                    | TUOLUMNE        | 51,583            | 0.3                        | 0.6 *            | 0.6 *                   | 0.0                   | 2.6         |
| 6                                    | GLENN           | 26,699            | 0.3                        | 1.2 *            | 1.2 *                   | 0.0                   | 5.2         |
| 7                                    | NAPA            | 118,949           | 1.7                        | 1.4 *            | 1.4 *                   | 0.0                   | 3.8         |
| 8                                    | SAN BENITO      | 44,008            | 0.7                        | 1.5 *            | 1.5 *                   | 0.0                   | 5.1         |
| 9                                    | EL DORADO       | 144,710           | 3.0                        | 2.1 *            | 2.3 *                   | 0.0                   | 5.0         |
| 10                                   | MARIN           | 239,630           | 5.0                        | 2.1 *            | 2.5 *                   | 0.1                   | 4.8         |
| 11                                   | SAN LUIS OBISPO | 230,691           | 6.7                        | 2.9 *            | 3.0 *                   | 0.6                   | 5.3         |
| 12                                   | SANTA CRUZ      | 243,657           | 7.0                        | 2.9 *            | 3.0 *                   | 0.7                   | 5.3         |
| 13                                   | MONO            | 10,565            | 0.3                        | 3.2 *            | 3.2 *                   | 0.0                   | 14.2        |
| 14                                   | SONOMA          | 424,481           | 12.7                       | 3.0 *            | 3.3 *                   | 1.4                   | 5.2         |
| 15                                   | INYO            | 18,225            | 0.3                        | 1.8 *            | 3.4 *                   | 0.0                   | 14.7        |
| 16                                   | NEVADA          | 87,001            | 2.7                        | 3.1 *            | 3.5 *                   | 0.0                   | 8.2         |
| 17                                   | CALAVERAS       | 36,881            | 1.3                        | 3.6 *            | 3.6 *                   | 0.0                   | 9.8         |
| 18                                   | PLACER          | 209,167           | 7.0                        | 3.3 *            | 3.6 *                   | 0.8                   | 6.3         |
| 19                                   | SANTA CLARA     | 1,638,352         | 53.7                       | 3.3              | 3.6                     | 2.6                   | 4.6         |
| 20                                   | SANTA BARBARA   | 393,716           | 16.3                       | 4.1 *            | 4.3 *                   | 2.1                   | 6.4         |
| 21                                   | YOLO            | 152,535           | 6.7                        | 4.4 *            | 4.3 *                   | 1.0                   | 7.6         |
| 22                                   | LASSEN          | 32,631            | 1.7                        | 5.1 *            | 4.5 *                   | 0.0                   | 11.3        |
| 23                                   | VENTURA         | 714,845           | 30.3                       | 4.2              | 4.7                     | 3.0                   | 6.4         |
| 24                                   | HUMBOLDT        | 125,100           | 6.0                        | 4.8 *            | 5.2 *                   | 1.0                   | 9.4         |
| 25                                   | SUTTER          | 74,591            | 4.0                        | 5.4 *            | 5.3 *                   | 0.0                   | 10.7        |
| 26                                   | SAN MATEO       | 698,042           | 31.7                       | 4.5              | 5.3                     | 3.4                   | 7.2         |
| 27                                   | BUTTE           | 196,522           | 9.3                        | 4.7 *            | 5.4 *                   | 1.9                   | 9.0         |
| 28                                   | ORANGE          | 2,649,846         | 136.0                      | 5.1              | 5.8                     | 4.8                   | 6.9         |
| 29                                   | SAN DIEGO       | 2,694,956         | 168.3                      | 6.2              | 6.2                     | 5.2                   | 7.1         |
| 30                                   | SHASTA          | 161,688           | 9.7                        | 6.0 *            | 6.5 *                   | 2.2                   | 10.7        |
| 31                                   | COLUSA          | 18,197            | 1.0                        | 5.5 *            | 6.6 *                   | 0.0                   | 19.5        |
| 32                                   | MERCED          | 198,390           | 12.0                       | 6.0 *            | 6.7 *                   | 2.9                   | 10.5        |
| <b>YEAR 2000 NATIONAL OBJECTIVE:</b> |                 |                   |                            |                  | <b>7.2</b>              |                       |             |
| 33                                   | DEL NORTE       | 27,527            | 2.0                        | 7.3 *            | 7.3 *                   | 0.0                   | 17.7        |
| 34                                   | SOLANO          | 372,493           | 25.7                       | 6.9              | 7.3                     | 4.4                   | 10.2        |
| 35                                   | LAKE            | 54,884            | 4.0                        | 7.3 *            | 7.4 *                   | 0.0                   | 15.3        |
| 36                                   | IMPERIAL        | 141,229           | 10.3                       | 7.3 *            | 7.5 *                   | 2.8                   | 12.1        |
| 37                                   | SISKIYOU        | 43,945            | 3.0                        | 6.8 *            | 7.5 *                   | 0.0                   | 16.3        |
| 38                                   | MENDOCINO       | 84,817            | 7.0                        | 8.3 *            | 8.2 *                   | 1.9                   | 14.5        |
| 39                                   | PLUMAS          | 20,239            | 1.3                        | 6.6 *            | 8.3 *                   | 0.0                   | 23.3        |
| 40                                   | TEHAMA          | 54,353            | 3.7                        | 6.7 *            | 8.4 *                   | 0.0                   | 17.2        |
| 41                                   | YUBA            | 60,575            | 4.7                        | 7.7 *            | 8.6 *                   | 0.7                   | 16.5        |
| 42                                   | KINGS           | 115,774           | 10.0                       | 8.6 *            | 8.6 *                   | 3.2                   | 14.0        |
| 43                                   | SAN FRANCISCO   | 768,263           | 63.0                       | 8.2              | 9.0                     | 6.6                   | 11.5        |
| 44                                   | STANISLAUS      | 418,455           | 36.3                       | 8.7              | 9.2                     | 6.2                   | 12.2        |
| 45                                   | MARIPOSA        | 15,965            | 1.0                        | 6.3 *            | 9.8 *                   | 0.0                   | 29.1        |
| 46                                   | SACRAMENTO      | 1,132,189         | 101.3                      | 9.0              | 10.0                    | 8.0                   | 12.0        |
| 47                                   | TULARE          | 353,645           | 32.7                       | 9.2              | 10.0                    | 6.5                   | 13.5        |
| 48                                   | MONTEREY        | 360,253           | 31.3                       | 8.7              | 10.0                    | 6.4                   | 13.6        |
| 49                                   | RIVERSIDE       | 1,393,289         | 128.3                      | 9.2              | 10.4                    | 8.5                   | 12.2        |
| 50                                   | CONTRA COSTA    | 877,965           | 81.3                       | 9.3              | 10.5                    | 8.2                   | 12.9        |
| 51                                   | KERN            | 624,092           | 62.3                       | 10.0             | 10.6                    | 8.0                   | 13.3        |
| <b>CALIFORNIA</b>                    |                 | <b>32,383,811</b> | <b>3,136.7</b>             | <b>9.7</b>       | <b>10.6</b>             | <b>10.3</b>           | <b>11.0</b> |
| 52                                   | MADERA          | 110,298           | 11.7                       | 10.6 *           | 11.1 *                  | 4.7                   | 17.5        |
| 53                                   | SAN BERNARDINO  | 1,592,711         | 183.3                      | 11.5             | 12.4                    | 10.6                  | 14.2        |
| 54                                   | ALAMEDA         | 1,365,041         | 166.7                      | 12.2             | 13.5                    | 11.3                  | 15.6        |
| 55                                   | SAN JOAQUIN     | 533,177           | 65.7                       | 12.3             | 13.5                    | 10.2                  | 16.9        |
| 56                                   | FRESNO          | 769,709           | 97.0                       | 12.6             | 13.5                    | 10.8                  | 16.3        |
| 57                                   | TRINITY         | 13,328            | 1.7                        | 12.5 *           | 16.5 *                  | 0.0                   | 43.7        |
| 58                                   | LOS ANGELES     | 9,396,389         | 1,465.7                    | 15.6             | 17.7                    | 16.7                  | 18.6        |

## **TABLE 6: DEATHS DUE TO SUICIDE, 1995-1997**

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

*The crude death rate from suicide for California was 11.0 per 100,000 population, a risk of dying equivalent to approximately one death for every 9,118 persons. This rate was based on a three-year average number of deaths of 3,551.7 from 1995 to 1997, and a population of 32,383,811 as of July 1, 1996. Among counties with "reliable" rates, the crude rate ranged from 21.6 in Shasta County to 8.2 in Santa Clara County, a difference in rates by a factor of 2.6 to 1.*

*The age-adjusted death rate from suicide for California for the three-year period from 1995 to 1997 was 10.3 per 100,000 population. Reliable age-adjusted death rates ranged from 19.9 in Shasta County to 7.8 in Santa Clara County. The difference between the crude rate and the age-adjusted rate shows how the county age composition differs from the 1940 United States population.*

*Altogether 24 counties (12 with reliable age-adjusted death rates) and California as a whole met the Year 2000 National Objective of 10.5 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 1940 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. (See Technical Notes in the Appendix, pages 59 through 66).

### **DATA SOURCES**

Department of Health Services: Death Statistical Master Files, 1995-1997.

Department of Finance: 1996 Race/Ethnic Population by County with Age and Sex Detail, January 1998.

**TABLE 6**  
**DEATHS DUE TO SUICIDE**  
**RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE**  
**CALIFORNIA COUNTIES, 1995-1997**

| RANK ORDER                           | COUNTY            | 1996 POPULATION   | 1995-1997 DEATHS (AVERAGE) | CRUDE DEATH RATE | AGE-ADJUSTED DEATH RATE | 95% CONFIDENCE LIMITS |             |
|--------------------------------------|-------------------|-------------------|----------------------------|------------------|-------------------------|-----------------------|-------------|
|                                      |                   |                   |                            |                  |                         | LOWER                 | UPPER       |
| 1                                    | ALPINE            | 1,194             | 0.0                        | 0.0 +            | 0.0 +                   | -                     | -           |
| 2                                    | MARIPOSA          | 15,965            | 1.3                        | 8.4 *            | 4.5 *                   | 0.0                   | 12.7        |
| 3                                    | IMPERIAL          | 141,229           | 8.3                        | 5.9 *            | 5.7 *                   | 1.7                   | 9.7         |
| 4                                    | SAN BENITO        | 44,008            | 2.7                        | 6.1 *            | 6.1 *                   | 0.0                   | 13.7        |
| 5                                    | GLENN             | 26,699            | 2.0                        | 7.5 *            | 6.7 *                   | 0.0                   | 16.3        |
| 6                                    | SANTA CLARA       | 1,638,352         | 134.7                      | 8.2              | 7.8                     | 6.4                   | 9.1         |
| 7                                    | MERCED            | 198,390           | 16.0                       | 8.1 *            | 8.3 *                   | 4.2                   | 12.5        |
| 8                                    | ORANGE            | 2,649,846         | 235.3                      | 8.9              | 8.5                     | 7.4                   | 9.6         |
| 9                                    | TULARE            | 353,645           | 30.7                       | 8.7              | 8.6                     | 5.5                   | 11.7        |
| 10                                   | CONTRA COSTA      | 877,965           | 84.3                       | 9.6              | 8.6                     | 6.7                   | 10.6        |
| 11                                   | LOS ANGELES       | 9,396,389         | 867.7                      | 9.2              | 8.9                     | 8.3                   | 9.5         |
| 12                                   | ALAMEDA           | 1,365,041         | 139.0                      | 10.2             | 9.2                     | 7.6                   | 10.8        |
| 13                                   | COLUSA            | 18,197            | 1.7                        | 9.2 *            | 9.2 *                   | 0.0                   | 23.5        |
| 14                                   | SOLANO            | 372,493           | 37.0                       | 9.9              | 9.5                     | 6.3                   | 12.6        |
| 15                                   | SAN MATEO         | 698,042           | 75.7                       | 10.8             | 9.6                     | 7.3                   | 11.9        |
| 16                                   | KINGS             | 115,774           | 11.0                       | 9.5 *            | 9.7 *                   | 3.9                   | 15.6        |
| 17                                   | MONO              | 10,565            | 1.3                        | 12.6 *           | 9.8 *                   | 0.0                   | 27.2        |
| 18                                   | SANTA BARBARA     | 393,716           | 44.7                       | 11.3             | 9.8                     | 6.8                   | 12.9        |
| 19                                   | VENTURA           | 714,845           | 76.3                       | 10.7             | 9.9                     | 7.7                   | 12.2        |
| 20                                   | MADERA            | 110,298           | 11.3                       | 10.3 *           | 10.0 *                  | 4.0                   | 16.0        |
| 21                                   | NAPA              | 118,949           | 14.7                       | 12.3 *           | 10.1 *                  | 4.5                   | 15.8        |
| 22                                   | FRESNO            | 769,709           | 76.0                       | 9.9              | 10.2                    | 7.8                   | 12.5        |
|                                      | <b>CALIFORNIA</b> | <b>32,383,811</b> | <b>3,551.7</b>             | <b>11.0</b>      | <b>10.3</b>             | <b>9.9</b>            | <b>10.6</b> |
| 23                                   | SAN JOAQUIN       | 533,177           | 57.7                       | 10.8             | 10.4                    | 7.6                   | 13.1        |
| 24                                   | TEHAMA            | 54,353            | 7.3                        | 13.5 *           | 10.4 *                  | 1.8                   | 19.1        |
| <b>YEAR 2000 NATIONAL OBJECTIVE:</b> |                   |                   |                            |                  | <b>10.5</b>             |                       |             |
| 25                                   | SANTA CRUZ        | 243,657           | 29.7                       | 12.2             | 10.7                    | 6.6                   | 14.8        |
| 26                                   | SAN BERNARDINO    | 1,592,711         | 172.7                      | 10.8             | 10.9                    | 9.2                   | 12.6        |
| 27                                   | TUOLUMNE          | 51,583            | 7.3                        | 14.2 *           | 10.9 *                  | 2.0                   | 19.8        |
| 28                                   | STANISLAUS        | 418,455           | 47.7                       | 11.4             | 11.1                    | 7.9                   | 14.3        |
| 29                                   | MONTEREY          | 360,253           | 42.3                       | 11.8             | 11.2                    | 7.7                   | 14.8        |
| 30                                   | YOLO              | 152,535           | 18.3                       | 12.0 *           | 11.3 *                  | 6.0                   | 16.7        |
| 31                                   | RIVERSIDE         | 1,393,289         | 174.3                      | 12.5             | 11.7                    | 9.9                   | 13.5        |
| 32                                   | KERN              | 624,092           | 73.7                       | 11.8             | 11.7                    | 9.0                   | 14.5        |
| 33                                   | SAN DIEGO         | 2,694,956         | 345.7                      | 12.8             | 12.0                    | 10.7                  | 13.3        |
| 34                                   | AMADOR            | 32,925            | 4.7                        | 14.2 *           | 12.3 *                  | 0.0                   | 24.7        |
| 35                                   | SAN LUIS OBISPO   | 230,691           | 33.3                       | 14.4             | 12.4                    | 7.9                   | 16.9        |
| 36                                   | MARIN             | 239,630           | 37.7                       | 15.7             | 12.5                    | 8.2                   | 16.9        |
| 37                                   | SUTTER            | 74,591            | 10.7                       | 14.3 *           | 12.6 *                  | 4.6                   | 20.5        |
| 38                                   | SACRAMENTO        | 1,132,189         | 160.3                      | 14.2             | 13.1                    | 11.0                  | 15.2        |
| 39                                   | LASSEN            | 32,631            | 4.7                        | 14.3 *           | 13.3 *                  | 1.1                   | 25.5        |
| 40                                   | SAN FRANCISCO     | 768,263           | 132.3                      | 17.2             | 13.9                    | 11.3                  | 16.5        |
| 41                                   | PLACER            | 209,167           | 33.0                       | 15.8             | 14.1                    | 9.0                   | 19.2        |
| 42                                   | BUTTE             | 196,522           | 32.7                       | 16.6             | 14.2                    | 8.8                   | 19.6        |
| 43                                   | NEVADA            | 87,001            | 13.7                       | 15.7 *           | 14.5 *                  | 5.6                   | 23.4        |
| 44                                   | SONOMA            | 424,481           | 71.7                       | 16.9             | 15.6                    | 11.8                  | 19.5        |
| 45                                   | CALAVERAS         | 36,881            | 7.3                        | 19.9 *           | 15.7 *                  | 3.0                   | 28.3        |
| 46                                   | YUBA              | 60,575            | 10.0                       | 16.5 *           | 15.9 *                  | 5.6                   | 26.2        |
| 47                                   | DEL NORTE         | 27,527            | 5.3                        | 19.4 *           | 16.0 *                  | 1.5                   | 30.6        |
| 48                                   | SISKIYOU          | 43,945            | 8.0                        | 18.2 *           | 16.3 *                  | 4.3                   | 28.4        |
| 49                                   | HUMBOLDT          | 125,100           | 25.0                       | 20.0             | 18.0                    | 10.7                  | 25.3        |
| 50                                   | MENDOCINO         | 84,817            | 18.3                       | 21.6 *           | 18.0 *                  | 9.2                   | 26.9        |
| 51                                   | INYO              | 18,225            | 3.7                        | 20.1 *           | 18.4 *                  | 0.0                   | 39.3        |
| 52                                   | TRINITY           | 13,328            | 3.0                        | 22.5 *           | 18.8 *                  | 0.0                   | 42.3        |
| 53                                   | EL DORADO         | 144,710           | 30.0                       | 20.7             | 19.0                    | 11.8                  | 26.3        |
| 54                                   | PLUMAS            | 20,239            | 4.7                        | 23.1 *           | 19.5 *                  | 0.0                   | 39.3        |
| 55                                   | SHASTA            | 161,688           | 35.0                       | 21.6             | 19.9                    | 12.9                  | 27.0        |
| 56                                   | LAKE              | 54,884            | 15.3                       | 27.9 *           | 22.8 *                  | 9.9                   | 35.8        |
| 57                                   | SIERRA            | 3,401             | 1.0                        | 29.4 *           | 24.1 *                  | 0.0                   | 71.4        |
| 58                                   | MODOC             | 10,028            | 2.0                        | 19.9 *           | 25.2 *                  | 0.0                   | 61.4        |

## **TABLE 7: DEATHS DUE TO ALL CANCERS, 1995-1997**

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

*The crude death rate from all cancers for California was 158.5 per 100,000 population, a risk of dying equivalent to approximately one death for every 631 persons. This rate was based on a three-year average number of deaths of 51,313.0 from 1995 to 1997, and a population of 32,383,811 as of July 1, 1996. Among counties with "reliable" rates, the crude rate ranged from 346.8 in Lake County to 112.9 in Kings County, a difference in rates by a factor of 3.1 to 1.*

*The age-adjusted death rate from all cancers for California for the three-year period from 1995 to 1997 was 113.3 per 100,000 population. Reliable age-adjusted death rates ranged from 158.1 in Trinity County to 95.2 in San Benito County. The difference between crude and age-adjusted rates shows how the county age composition differs from the 1940 United States population.*

*Altogether 47 counties (43 with reliable age-adjusted death rates) and California as a whole met the Year 2000 National Objective of 130.0 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 1940 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 100 independent sets of data similar to the present set. (See Technical Notes in the Appendix, pages 59 through 66).

### **DATA SOURCES**

Department of Health Services: Death Statistical Master Files, 1995-1997.

Department of Finance: 1996 Race/Ethnic Population by County with Age and Sex Detail, January 1998.

**TABLE 7**  
**DEATHS DUE TO ALL CANCERS**  
**RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE**  
**CALIFORNIA COUNTIES, 1995-1997**

| RANK ORDER | COUNTY                               | 1996 POPULATION   | 1995-1997 DEATHS (AVERAGE) | CRUDE DEATH RATE | AGE-ADJUSTED DEATH RATE | 95% CONFIDENCE LIMITS |              |
|------------|--------------------------------------|-------------------|----------------------------|------------------|-------------------------|-----------------------|--------------|
|            |                                      |                   |                            |                  |                         | LOWER                 | UPPER        |
| 1          | MONO                                 | 10,565            | 7.7                        | 72.6 *           | 58.7 *                  | 16.3                  | 101.1        |
| 2          | SIERRA                               | 3,401             | 7.7                        | 225.4 *          | 93.9 *                  | 15.1                  | 172.8        |
| 3          | SAN BENITO                           | 44,008            | 60.0                       | 136.3            | 95.2                    | 69.1                  | 121.4        |
| 4          | LASSEN                               | 32,631            | 42.0                       | 128.7            | 95.4                    | 64.3                  | 126.5        |
| 5          | MODOC                                | 10,028            | 22.3                       | 222.7            | 97.0 *                  | 51.4                  | 142.5        |
| 6          | SANTA CLARA                          | 1,638,352         | 2,107.7                    | 128.6            | 98.4                    | 94.0                  | 102.8        |
| 7          | INYO                                 | 18,225            | 44.7                       | 245.1            | 99.1                    | 65.3                  | 132.9        |
| 8          | SANTA BARBARA                        | 393,716           | 630.0                      | 160.0            | 99.7                    | 91.1                  | 108.4        |
| 9          | VENTURA                              | 714,845           | 1,018.3                    | 142.5            | 102.7                   | 96.0                  | 109.4        |
| 10         | SANTA CRUZ                           | 243,657           | 381.3                      | 156.5            | 104.3                   | 92.7                  | 115.9        |
| 11         | NEVADA                               | 87,001            | 213.3                      | 245.2            | 105.0                   | 88.3                  | 121.6        |
| 12         | KINGS                                | 115,774           | 130.7                      | 112.9            | 106.3                   | 87.1                  | 125.4        |
| 13         | FRESNO                               | 769,709           | 1,059.3                    | 137.6            | 106.6                   | 99.6                  | 113.5        |
| 14         | SAN MATEO                            | 698,042           | 1,257.7                    | 180.2            | 107.7                   | 101.3                 | 114.2        |
| 15         | SAN FRANCISCO                        | 768,263           | 1,550.7                    | 201.8            | 107.9                   | 101.8                 | 114.0        |
| 16         | DEL NORTE                            | 27,527            | 48.7                       | 176.8            | 108.5                   | 74.1                  | 142.8        |
| 17         | MADERA                               | 110,298           | 178.0                      | 161.4            | 109.4                   | 91.8                  | 127.0        |
| 18         | TULARE                               | 353,645           | 507.3                      | 143.5            | 109.8                   | 99.4                  | 120.2        |
| 19         | ORANGE                               | 2,649,846         | 3,824.3                    | 144.3            | 110.0                   | 106.4                 | 113.7        |
| 20         | LOS ANGELES                          | 9,396,389         | 13,445.7                   | 143.1            | 111.2                   | 109.2                 | 113.2        |
| 21         | IMPERIAL                             | 141,229           | 190.3                      | 134.8            | 111.5                   | 94.4                  | 128.6        |
| 22         | MONTEREY                             | 360,253           | 558.7                      | 155.1            | 112.5                   | 102.4                 | 122.6        |
|            | <b>CALIFORNIA</b>                    | <b>32,383,811</b> | <b>51,313.0</b>            | <b>158.5</b>     | <b>113.3</b>            | <b>112.2</b>          | <b>114.3</b> |
| 23         | SAN LUIS OBISPO                      | 230,691           | 453.3                      | 196.5            | 113.9                   | 101.7                 | 126.0        |
| 24         | RIVERSIDE                            | 1,393,289         | 2,520.0                    | 180.9            | 114.5                   | 109.4                 | 119.5        |
| 25         | SUTTER                               | 74,591            | 138.7                      | 185.9            | 115.1                   | 94.3                  | 135.8        |
| 26         | CONTRA COSTA                         | 877,965           | 1,583.7                    | 180.4            | 115.6                   | 109.5                 | 121.6        |
| 27         | MARIN                                | 239,630           | 485.0                      | 202.4            | 115.8                   | 104.6                 | 127.0        |
| 28         | SAN JOAQUIN                          | 533,177           | 869.0                      | 163.0            | 116.2                   | 107.8                 | 124.6        |
| 29         | PLACER                               | 209,167           | 397.0                      | 189.8            | 116.4                   | 104.1                 | 128.7        |
| 30         | EL DORADO                            | 144,710           | 270.3                      | 186.8            | 116.5                   | 101.6                 | 131.3        |
| 31         | ALAMEDA                              | 1,365,041         | 2,255.0                    | 165.2            | 117.1                   | 111.9                 | 122.2        |
| 32         | KERN                                 | 624,092           | 959.0                      | 153.7            | 118.1                   | 110.0                 | 126.1        |
| 33         | SAN DIEGO                            | 2,694,956         | 4,387.3                    | 162.8            | 118.3                   | 114.4                 | 122.1        |
| 34         | SONOMA                               | 424,481           | 868.3                      | 204.6            | 118.7                   | 109.8                 | 127.6        |
| 35         | STANISLAUS                           | 418,455           | 696.7                      | 166.5            | 121.3                   | 111.5                 | 131.1        |
| 36         | SAN BERNARDINO                       | 1,592,711         | 2,247.7                    | 141.1            | 122.6                   | 117.3                 | 128.0        |
| 37         | SACRAMENTO                           | 1,132,189         | 1,959.7                    | 173.1            | 122.8                   | 117.0                 | 128.6        |
| 38         | COLUSA                               | 18,197            | 32.7                       | 179.5            | 123.3                   | 76.9                  | 169.7        |
| 39         | PLUMAS                               | 20,239            | 52.7                       | 260.2            | 124.0                   | 86.0                  | 161.9        |
| 40         | MERCED                               | 198,390           | 291.3                      | 146.8            | 124.2                   | 109.0                 | 139.4        |
| 41         | AMADOR                               | 32,925            | 92.3                       | 280.4            | 125.1                   | 95.5                  | 154.8        |
| 42         | BUTTE                                | 196,522           | 505.3                      | 257.1            | 126.0                   | 112.8                 | 139.2        |
| 43         | ALPINE                               | 1,194             | 2.0                        | 167.5 *          | 126.4 *                 | 0.0                   | 311.1        |
| 44         | TEHAMA                               | 54,353            | 141.3                      | 260.0            | 126.6                   | 102.4                 | 150.8        |
| 45         | HUMBOLDT                             | 125,100           | 255.7                      | 204.4            | 127.0                   | 109.9                 | 144.1        |
| 46         | MENDOCINO                            | 84,817            | 185.3                      | 218.5            | 127.1                   | 107.0                 | 147.3        |
| 47         | NAPA                                 | 118,949           | 319.3                      | 268.5            | 129.2                   | 112.7                 | 145.7        |
|            | <b>YEAR 2000 NATIONAL OBJECTIVE:</b> |                   |                            |                  | <b>130.0</b>            |                       |              |
| 48         | YOLO                                 | 152,535           | 247.3                      | 162.1            | 130.6                   | 113.2                 | 148.1        |
| 49         | SOLANO                               | 372,493           | 589.3                      | 158.2            | 132.5                   | 121.4                 | 143.7        |
| 50         | SHASTA                               | 161,688           | 392.0                      | 242.4            | 134.0                   | 119.3                 | 148.7        |
| 51         | MARIPOSA                             | 15,965            | 45.0                       | 281.9            | 134.7                   | 89.8                  | 179.5        |
| 52         | TUOLUMNE                             | 51,583            | 145.3                      | 281.7            | 136.1                   | 110.6                 | 161.6        |
| 53         | YUBA                                 | 60,575            | 104.3                      | 172.2            | 140.4                   | 111.7                 | 169.1        |
| 54         | CALAVERAS                            | 36,881            | 110.0                      | 298.3            | 141.8                   | 111.1                 | 172.5        |
| 55         | SISKIYOU                             | 43,945            | 132.7                      | 301.9            | 147.9                   | 119.0                 | 176.8        |
| 56         | GLENN                                | 26,699            | 62.0                       | 232.2            | 148.1                   | 107.0                 | 189.3        |
| 57         | LAKE                                 | 54,884            | 190.3                      | 346.8            | 151.3                   | 125.0                 | 177.6        |
| 58         | TRINITY                              | 13,328            | 39.7                       | 297.6            | 158.1                   | 102.7                 | 213.4        |

## **TABLE 8: DEATHS DUE TO LUNG CANCER, 1995-1997**

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

*The crude death rate from lung cancer for California was 42.2 per 100,000 population, a risk of dying equivalent to approximately one death for every 2,370 persons. This rate was based on a three-year average number of deaths of 13,666.3 from 1995 to 1997, and a population of 32,383,811 as of July 1, 1996. Among counties with "reliable" rates, the crude rate ranged from 116.0 in Lake County to 31.7 in Santa Clara County, a difference in rates by a factor of 3.7 to 1.*

*The age-adjusted death rate from lung cancer for California for the three-year period from 1995 to 1997 was 31.0 per 100,000 population. Reliable age-adjusted death rates ranged from 56.4 in Yuba County to 24.9 in Santa Clara County. The difference between crude and age-adjusted rates shows how the county age composition differs from the 1940 United States population.*

*Altogether 46 counties (38 with reliable age-adjusted death rates) and California as a whole met the Year 2000 National Objective of 42.0 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 1940 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. (See Technical Notes in the Appendix, pages 59 through 66).

### **DATA SOURCES**

Department of Health Services: Death Statistical Master Files, 1995-1997.

Department of Finance: 1996 Race/Ethnic Population by County with Age and Sex Detail, January 1998.

**TABLE 8**  
**DEATHS DUE TO LUNG CANCER**  
**RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE**  
**CALIFORNIA COUNTIES, 1995-1997**

| RANK ORDER | COUNTY                               | 1996 POPULATION   | 1995-1997 DEATHS (AVERAGE) | CRUDE DEATH RATE | AGE-ADJUSTED DEATH RATE | 95% CONFIDENCE LIMITS |             |
|------------|--------------------------------------|-------------------|----------------------------|------------------|-------------------------|-----------------------|-------------|
|            |                                      |                   |                            |                  |                         | LOWER                 | UPPER       |
| 1          | MONO                                 | 10,565            | 3.3                        | 31.6 *           | 23.6 *                  | 0.0                   | 49.0        |
| 2          | COLUSA                               | 18,197            | 7.3                        | 40.3 *           | 24.1 *                  | 4.9                   | 43.2        |
| 3          | SANTA CLARA                          | 1,638,352         | 520.0                      | 31.7             | 24.9                    | 22.7                  | 27.1        |
| 4          | SAN BENITO                           | 44,008            | 14.3                       | 32.6 *           | 25.7 *                  | 11.7                  | 39.8        |
| 5          | SANTA CRUZ                           | 243,657           | 91.7                       | 37.6             | 25.9                    | 20.1                  | 31.7        |
| 6          | SANTA BARBARA                        | 393,716           | 160.7                      | 40.8             | 26.0                    | 21.6                  | 30.5        |
| 7          | SIERRA                               | 3,401             | 2.7                        | 78.4 *           | 26.9 *                  | 0.0                   | 67.8        |
| 8          | VENTURA                              | 714,845           | 267.3                      | 37.4             | 27.4                    | 24.0                  | 30.9        |
| 9          | SAN FRANCISCO                        | 768,263           | 391.0                      | 50.9             | 27.5                    | 24.5                  | 30.5        |
| 10         | LASSEN                               | 32,631            | 11.3                       | 34.7 *           | 27.7 *                  | 10.5                  | 44.9        |
| 11         | IMPERIAL                             | 141,229           | 47.0                       | 33.3             | 27.9                    | 19.3                  | 36.5        |
| 12         | SAN MATEO                            | 698,042           | 320.0                      | 45.8             | 27.9                    | 24.7                  | 31.2        |
| 13         | LOS ANGELES                          | 9,396,389         | 3,327.7                    | 35.4             | 28.3                    | 27.3                  | 29.3        |
| 14         | MONTEREY                             | 360,253           | 140.3                      | 39.0             | 29.1                    | 24.0                  | 34.3        |
| 15         | NEVADA                               | 87,001            | 58.7                       | 67.4             | 29.6                    | 20.7                  | 38.5        |
| 16         | MARIN                                | 239,630           | 119.7                      | 49.9             | 29.6                    | 24.0                  | 35.3        |
| 17         | MODOC                                | 10,028            | 7.0                        | 69.8 *           | 29.7 *                  | 4.9                   | 54.4        |
| 18         | ORANGE                               | 2,649,846         | 1,008.7                    | 38.1             | 29.8                    | 27.9                  | 31.7        |
|            | <b>CALIFORNIA</b>                    | <b>32,383,811</b> | <b>13,666.3</b>            | <b>42.2</b>      | <b>31.0</b>             | <b>30.4</b>           | <b>31.5</b> |
| 19         | FRESNO                               | 769,709           | 296.0                      | 38.5             | 31.2                    | 27.4                  | 35.1        |
| 20         | KINGS                                | 115,774           | 38.3                       | 33.1             | 31.5                    | 21.1                  | 42.0        |
| 21         | CONTRA COSTA                         | 877,965           | 419.0                      | 47.7             | 31.5                    | 28.3                  | 34.7        |
| 22         | SAN DIEGO                            | 2,694,956         | 1,146.3                    | 42.5             | 31.6                    | 29.6                  | 33.6        |
| 23         | MADERA                               | 110,298           | 48.7                       | 44.1             | 31.7                    | 22.1                  | 41.2        |
| 24         | TULARE                               | 353,645           | 143.3                      | 40.5             | 31.9                    | 26.3                  | 37.5        |
| 25         | RIVERSIDE                            | 1,393,289         | 702.3                      | 50.4             | 32.2                    | 29.5                  | 34.8        |
| 26         | SAN LUIS OBISPO                      | 230,691           | 128.0                      | 55.5             | 33.0                    | 26.5                  | 39.5        |
| 27         | ALAMEDA                              | 1,365,041         | 617.0                      | 45.2             | 33.1                    | 30.3                  | 35.8        |
| 28         | SONOMA                               | 424,481           | 233.7                      | 55.0             | 33.4                    | 28.7                  | 38.2        |
| 29         | SUTTER                               | 74,591            | 39.0                       | 52.3             | 33.5                    | 22.4                  | 44.7        |
| 30         | PLACER                               | 209,167           | 115.3                      | 55.1             | 34.2                    | 27.6                  | 40.7        |
| 31         | SAN JOAQUIN                          | 533,177           | 249.0                      | 46.7             | 34.5                    | 29.9                  | 39.1        |
| 32         | SAN BERNARDINO                       | 1,592,711         | 625.7                      | 39.3             | 35.1                    | 32.2                  | 37.9        |
| 33         | KERN                                 | 624,092           | 281.7                      | 45.1             | 35.3                    | 30.9                  | 39.7        |
| 34         | EL DORADO                            | 144,710           | 83.0                       | 57.4             | 35.9                    | 27.7                  | 44.1        |
| 35         | TEHAMA                               | 54,353            | 40.7                       | 74.8             | 36.4                    | 23.9                  | 48.9        |
| 36         | STANISLAUS                           | 418,455           | 200.3                      | 47.9             | 36.6                    | 31.2                  | 42.0        |
| 37         | MERCED                               | 198,390           | 84.0                       | 42.3             | 36.8                    | 28.5                  | 45.1        |
| 38         | TUOLUMNE                             | 51,583            | 37.7                       | 73.0             | 36.9                    | 23.5                  | 50.3        |
| 39         | NAPA                                 | 118,949           | 85.7                       | 72.0             | 37.1                    | 28.2                  | 45.9        |
| 40         | INYO                                 | 18,225            | 16.7                       | 91.4 *           | 37.3 *                  | 17.0                  | 57.5        |
| 41         | SACRAMENTO                           | 1,132,189         | 584.7                      | 51.6             | 37.4                    | 34.2                  | 40.6        |
| 42         | HUMBOLDT                             | 125,100           | 73.0                       | 58.4             | 37.4                    | 28.1                  | 46.8        |
| 43         | BUTTE                                | 196,522           | 152.0                      | 77.3             | 38.1                    | 31.0                  | 45.2        |
| 44         | CALAVERAS                            | 36,881            | 29.0                       | 78.6             | 38.8                    | 23.2                  | 54.3        |
| 45         | DEL NORTE                            | 27,527            | 16.7                       | 60.5 *           | 39.6 *                  | 18.2                  | 61.1        |
| 46         | SHASTA                               | 161,688           | 115.7                      | 71.5             | 40.4                    | 32.4                  | 48.4        |
|            | <b>YEAR 2000 NATIONAL OBJECTIVE:</b> |                   |                            |                  |                         | <b>42.0</b>           |             |
| 47         | PLUMAS                               | 20,239            | 18.3                       | 90.6 *           | 42.1 *                  | 20.3                  | 63.9        |
| 48         | YOLO                                 | 152,535           | 78.3                       | 51.4             | 42.3                    | 32.3                  | 52.2        |
| 49         | AMADOR                               | 32,925            | 30.7                       | 93.1             | 42.3                    | 25.2                  | 59.3        |
| 50         | SOLANO                               | 372,493           | 183.7                      | 49.3             | 42.9                    | 36.5                  | 49.3        |
| 51         | GLENN                                | 26,699            | 19.0                       | 71.2             | 43.2 *                  | 21.9                  | 64.4        |
| 52         | MENDOCINO                            | 84,817            | 60.0                       | 70.7             | 44.4                    | 32.4                  | 56.4        |
| 53         | SISKIYOU                             | 43,945            | 42.0                       | 95.6             | 45.8                    | 30.5                  | 61.2        |
| 54         | MARIPOSA                             | 15,965            | 14.3                       | 89.8 *           | 46.1 *                  | 19.5                  | 72.8        |
| 55         | ALPINE                               | 1,194             | 0.7                        | 55.8 *           | 48.7 *                  | 0.0                   | 171.4       |
| 56         | LAKE                                 | 54,884            | 63.7                       | 116.0            | 52.4                    | 37.1                  | 67.8        |
| 57         | TRINITY                              | 13,328            | 13.7                       | 102.5 *          | 56.2 *                  | 24.1                  | 88.4        |
| 58         | YUBA                                 | 60,575            | 41.0                       | 67.7             | 56.4                    | 38.1                  | 74.7        |



## **TABLE 9: DEATHS DUE TO FEMALE BREAST CANCER, 1995-1997**

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

*The crude death rate from female breast cancer for California was 26.1 per 100,000 population, a risk of dying equivalent to approximately one death for every 3,839 females. This rate was based on a three-year average number of deaths of 4,208.7 from 1995 to 1997, and a female population of 16,155,887 as of July 1, 1996. Among counties with "reliable" rates, the crude rate ranged from 43.1 in Nevada County to 19.3 in Merced County, a difference in rates by a factor of 2.2 to 1.*

*The age-adjusted death rate from female breast cancer for California for the three-year period from 1995 to 1997 was 18.9 per 100,000 population. Reliable age-adjusted death rates ranged from 25.2 in Shasta County to 15.3 in Santa Barbara County. The difference between crude and age-adjusted rates shows how the county age composition differs from the 1940 United States population.*

*Altogether 43 counties (21 with reliable age-adjusted death rates) and California as a whole met the Year 2000 National Objective of 20.6 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 1940 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. (See Technical Notes in the Appendix, pages 59 through 66).

### **DATA SOURCES**

Department of Health Services: Death Statistical Master Files, 1995-1997.

Department of Finance: 1996 Race/Ethnic Population by County with Age and Sex Detail, January 1998.

**TABLE 9  
DEATHS DUE TO FEMALE BREAST CANCER  
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE  
CALIFORNIA COUNTIES, 1995-1997**

| RANK<br>ORDER | COUNTY                               | 1996<br>FEMALE<br>POPULATION | 1995-1997<br>DEATHS<br>(AVERAGE) | CRUDE<br>DEATH RATE | AGE-ADJUSTED<br>DEATH RATE | 95% CONFIDENCE LIMITS |             |
|---------------|--------------------------------------|------------------------------|----------------------------------|---------------------|----------------------------|-----------------------|-------------|
|               |                                      |                              |                                  |                     |                            | LOWER                 | UPPER       |
| 1             | SIERRA                               | 1,702                        | 0.0                              | 0.0 +               | 0.0 +                      | -                     | -           |
| 2             | ALPINE                               | 572                          | 0.0                              | 0.0 +               | 0.0 +                      | -                     | -           |
| 3             | MONO                                 | 4,864                        | 0.3                              | 6.9 *               | 7.6 *                      | 0.0                   | 33.2        |
| 4             | MODOC                                | 4,903                        | 1.3                              | 27.2 *              | 12.1 *                     | 0.0                   | 32.6        |
| 5             | LASSEN                               | 12,547                       | 2.7                              | 21.3 *              | 13.0 *                     | 0.0                   | 30.2        |
| 6             | MARIPOSA                             | 7,936                        | 2.0                              | 25.2 *              | 13.3 *                     | 0.0                   | 33.6        |
| 7             | DEL NORTE                            | 12,651                       | 2.3                              | 18.4 *              | 13.5 *                     | 0.0                   | 31.8        |
| 8             | KINGS                                | 53,333                       | 8.3                              | 15.6 *              | 14.2 *                     | 4.0                   | 24.4        |
| 9             | TRINITY                              | 6,577                        | 2.3                              | 35.5 *              | 14.2 *                     | 0.0                   | 34.9        |
| 10            | LAKE                                 | 28,131                       | 10.0                             | 35.5 *              | 14.4 *                     | 3.4                   | 25.5        |
| 11            | SANTA BARBARA                        | 194,744                      | 51.0                             | 26.2                | 15.3                       | 10.5                  | 20.1        |
| 12            | TEHAMA                               | 27,698                       | 8.0                              | 28.9 *              | 15.4 *                     | 2.7                   | 28.0        |
| 13            | MADERA                               | 57,367                       | 12.3                             | 21.5 *              | 15.8 *                     | 6.1                   | 25.5        |
| 14            | SAN FRANCISCO                        | 387,383                      | 107.3                            | 27.7                | 15.8                       | 12.4                  | 19.2        |
| 15            | YUBA                                 | 30,340                       | 5.3                              | 17.6 *              | 16.0 *                     | 1.9                   | 30.1        |
| 16            | FRESNO                               | 387,704                      | 79.7                             | 20.5                | 16.1                       | 12.2                  | 19.9        |
| 17            | INYO                                 | 9,294                        | 3.0                              | 32.3 *              | 16.2 *                     | 0.0                   | 39.1        |
| 18            | SAN MATEO                            | 353,159                      | 96.0                             | 27.2                | 16.2                       | 12.7                  | 19.8        |
| 19            | SAN BENITO                           | 21,771                       | 4.3                              | 19.9 *              | 16.4 *                     | 0.3                   | 32.4        |
| 20            | TULARE                               | 177,399                      | 35.3                             | 19.9                | 16.6                       | 10.7                  | 22.6        |
| 21            | CALAVERAS                            | 18,697                       | 5.0                              | 26.7 *              | 16.7 *                     | 1.0                   | 32.5        |
| 22            | SUTTER                               | 37,635                       | 9.3                              | 24.8 *              | 16.8 *                     | 5.0                   | 28.6        |
| 23            | MERCED                               | 98,314                       | 19.0                             | 19.3                | 17.0 *                     | 8.9                   | 25.1        |
| 24            | SANTA CLARA                          | 806,850                      | 187.3                            | 23.2                | 17.0                       | 14.5                  | 19.6        |
| 25            | COLUSA                               | 8,894                        | 1.7                              | 18.7 *              | 17.3 *                     | 0.0                   | 44.0        |
| 26            | MONTEREY                             | 172,715                      | 43.7                             | 25.3                | 17.5                       | 11.8                  | 23.2        |
| 27            | VENTURA                              | 353,790                      | 86.0                             | 24.3                | 17.5                       | 13.5                  | 21.4        |
| 28            | PLACER                               | 105,309                      | 27.7                             | 26.3                | 17.8                       | 10.6                  | 25.0        |
| 29            | ALAMEDA                              | 690,822                      | 178.3                            | 25.8                | 18.1                       | 15.2                  | 21.0        |
| 30            | NAPA                                 | 60,105                       | 20.0                             | 33.3                | 18.4 *                     | 9.0                   | 27.8        |
| 31            | MENDOCINO                            | 42,540                       | 13.7                             | 32.1 *              | 18.4 *                     | 7.3                   | 29.6        |
| 32            | KERN                                 | 306,406                      | 74.3                             | 24.3                | 18.5                       | 13.9                  | 23.1        |
| 33            | ORANGE                               | 1,312,309                    | 332.3                            | 25.3                | 18.7                       | 16.5                  | 20.8        |
| 34            | LOS ANGELES                          | 4,705,070                    | 1,138.3                          | 24.2                | 18.7                       | 17.5                  | 19.9        |
|               | <b>CALIFORNIA</b>                    | <b>16,155,887</b>            | <b>4,208.7</b>                   | <b>26.1</b>         | <b>18.9</b>                | <b>18.3</b>           | <b>19.5</b> |
| 35            | SONOMA                               | 215,788                      | 63.0                             | 29.2                | 19.1                       | 13.8                  | 24.4        |
| 36            | HUMBOLDT                             | 63,142                       | 18.7                             | 29.6 *              | 19.9 *                     | 10.0                  | 29.7        |
| 37            | SAN JOAQUIN                          | 263,817                      | 71.7                             | 27.2                | 19.9                       | 14.9                  | 24.9        |
| 38            | SOLANO                               | 182,152                      | 44.3                             | 24.3                | 19.9                       | 13.8                  | 26.1        |
| 39            | SAN LUIS OBISPO                      | 111,806                      | 36.3                             | 32.5                | 20.0                       | 12.4                  | 27.6        |
| 40            | RIVERSIDE                            | 697,250                      | 201.7                            | 28.9                | 20.1                       | 16.9                  | 23.2        |
| 41            | SANTA CRUZ                           | 122,177                      | 37.0                             | 30.3                | 20.2                       | 13.0                  | 27.5        |
| 42            | STANISLAUS                           | 212,255                      | 54.3                             | 25.6                | 20.2                       | 14.4                  | 26.0        |
| 43            | SAN BERNARDINO                       | 794,498                      | 188.7                            | 23.7                | 20.5                       | 17.4                  | 23.6        |
|               | <b>YEAR 2000 NATIONAL OBJECTIVE:</b> |                              |                                  | <b>20.6</b>         |                            |                       |             |
| 44            | SAN DIEGO                            | 1,319,466                    | 376.0                            | 28.5                | 20.7                       | 18.4                  | 23.0        |
| 45            | IMPERIAL                             | 68,356                       | 16.3                             | 23.9 *              | 21.0 *                     | 10.1                  | 31.8        |
| 46            | SACRAMENTO                           | 576,499                      | 170.0                            | 29.5                | 21.2                       | 17.8                  | 24.6        |
| 47            | CONTRA COSTA                         | 446,802                      | 145.0                            | 32.5                | 21.7                       | 17.9                  | 25.4        |
| 48            | BUTTE                                | 100,664                      | 38.0                             | 37.7                | 22.0                       | 13.8                  | 30.2        |
| 49            | YOLO                                 | 76,907                       | 18.7                             | 24.3 *              | 22.1 *                     | 11.4                  | 32.7        |
| 50            | SISKIYOU                             | 22,387                       | 9.0                              | 40.2 *              | 22.4 *                     | 5.8                   | 39.0        |
| 51            | NEVADA                               | 44,122                       | 19.0                             | 43.1                | 22.6 *                     | 10.8                  | 34.4        |
| 52            | TUOLUMNE                             | 24,417                       | 10.7                             | 43.7 *              | 23.5 *                     | 7.5                   | 39.4        |
| 53            | MARIN                                | 120,381                      | 47.0                             | 39.0                | 23.7                       | 16.3                  | 31.1        |
| 54            | EL DORADO                            | 72,388                       | 24.7                             | 34.1                | 23.7                       | 13.9                  | 33.5        |
| 55            | SHASTA                               | 82,399                       | 34.3                             | 41.7                | 25.2                       | 15.8                  | 34.5        |
| 56            | AMADOR                               | 15,221                       | 5.3                              | 35.0 *              | 25.7 *                     | 0.0                   | 52.4        |
| 57            | PLUMAS                               | 10,139                       | 4.3                              | 42.7 *              | 26.8 *                     | 0.0                   | 54.3        |
| 58            | GLENN                                | 13,323                       | 6.3                              | 47.5 *              | 32.1 *                     | 3.4                   | 60.9        |

## **TABLE 10: DEATHS DUE TO CORONARY HEART DISEASE, 1995-1997**

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

*The crude death rate from coronary heart disease for California was 178.7 per 100,000 population, a risk of dying equivalent to approximately one death for every 560 persons. This rate was based on a three-year average number of deaths of 57,858.3 from 1995 to 1997, and a population of 32,383,811 as of July 1, 1996. Among counties with "reliable" rates, the crude rate ranged from 351.2 in Inyo County to 97.7 in San Benito County, a difference in rates by a factor of 3.6 to 1.*

*The age-adjusted death rate from coronary heart disease for California for the three-year period from 1995 to 1997 was 96.9 per 100,000 population. Reliable age-adjusted death rates ranged from 127.3 in San Bernardino County to 52.3 in San Benito County. The difference between crude and age-adjusted rates shows how the county age composition differs from the 1940 United States population.*

*Altogether 45 counties (40 with reliable age-adjusted death rates) and California as a whole met the Year 2000 National Objective of 100.0 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 1940 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. (See Technical Notes in the Appendix, pages 59 through 66).

### **DATA SOURCES**

Department of Health Services: Death Statistical Master Files, 1995-1997.

Department of Finance: 1996 Race/Ethnic Population by County with Age and Sex Detail, January 1998.

**TABLE 10**  
**DEATHS DUE TO CORONARY HEART DISEASE**  
**RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE**  
**CALIFORNIA COUNTIES, 1995-1997**

| RANK<br>ORDER | COUNTY                               | 1996<br>POPULATION | 1995-1997<br>DEATHS<br>(AVERAGE) | CRUDE<br>DEATH RATE | AGE-ADJUSTED<br>DEATH RATE | 95% CONFIDENCE LIMITS |             |
|---------------|--------------------------------------|--------------------|----------------------------------|---------------------|----------------------------|-----------------------|-------------|
|               |                                      |                    |                                  |                     |                            | LOWER                 | UPPER       |
| 1             | SIERRA                               | 3,401              | 6.7                              | 196.0 *             | 48.4 *                     | 2.3                   | 94.6        |
| 2             | SAN BENITO                           | 44,008             | 43.0                             | 97.7                | 52.3                       | 34.5                  | 70.0        |
| 3             | LASSEN                               | 32,631             | 34.3                             | 105.2               | 64.5                       | 40.8                  | 88.2        |
| 4             | NEVADA                               | 87,001             | 171.7                            | 197.3               | 64.5                       | 52.8                  | 76.2        |
| 5             | MONO                                 | 10,565             | 10.3                             | 97.8 *              | 64.8 *                     | 22.3                  | 107.3       |
| 6             | MARIN                                | 239,630            | 382.3                            | 159.6               | 65.9                       | 58.4                  | 73.5        |
| 7             | TRINITY                              | 13,328             | 22.7                             | 170.1               | 72.2 *                     | 38.7                  | 105.8       |
| 8             | PLUMAS                               | 20,239             | 39.3                             | 194.3               | 73.0                       | 46.9                  | 99.2        |
| 9             | MONTEREY                             | 360,253            | 481.3                            | 133.6               | 73.3                       | 65.8                  | 80.7        |
| 10            | SAN MATEO                            | 698,042            | 1,166.7                          | 167.1               | 73.4                       | 68.7                  | 78.2        |
| 11            | BUTTE                                | 196,522            | 418.0                            | 212.7               | 74.3                       | 65.1                  | 83.5        |
| 12            | CALAVERAS                            | 36,881             | 75.3                             | 204.3               | 74.7                       | 55.3                  | 94.1        |
| 13            | SANTA CRUZ                           | 243,657            | 399.0                            | 163.8               | 74.7                       | 65.9                  | 83.5        |
| 14            | EL DORADO                            | 144,710            | 218.7                            | 151.1               | 75.2                       | 64.2                  | 86.2        |
| 15            | GLENN                                | 26,699             | 47.7                             | 178.5               | 75.7                       | 49.8                  | 101.7       |
| 16            | TUOLUMNE                             | 51,583             | 110.0                            | 213.2               | 77.2                       | 60.0                  | 94.4        |
| 17            | SANTA BARBARA                        | 393,716            | 696.3                            | 176.9               | 78.3                       | 71.4                  | 85.2        |
| 18            | MODOC                                | 10,028             | 19.3                             | 192.8               | 78.9 *                     | 33.3                  | 124.5       |
| 19            | VENTURA                              | 714,845            | 1,026.0                          | 143.5               | 79.2                       | 73.8                  | 84.5        |
| 20            | SANTA CLARA                          | 1,638,352          | 2,146.3                          | 131.0               | 79.4                       | 75.8                  | 83.0        |
| 21            | SONOMA                               | 424,481            | 814.3                            | 191.8               | 80.3                       | 73.7                  | 87.0        |
| 22            | CONTRA COSTA                         | 877,965            | 1,414.7                          | 161.1               | 80.8                       | 76.1                  | 85.4        |
| 23            | PLACER                               | 209,167            | 361.3                            | 172.7               | 81.2                       | 71.8                  | 90.6        |
| 24            | YOLO                                 | 152,535            | 202.3                            | 132.6               | 81.2                       | 68.6                  | 93.9        |
| 25            | TEHAMA                               | 54,353             | 122.3                            | 225.1               | 85.8                       | 67.6                  | 103.9       |
| 26            | MARIPOSA                             | 15,965             | 36.0                             | 225.5               | 85.8                       | 51.7                  | 119.9       |
| 27            | SISKIYOU                             | 43,945             | 105.3                            | 239.7               | 85.9                       | 66.5                  | 105.3       |
| 28            | NAPA                                 | 118,949            | 303.7                            | 255.3               | 86.9                       | 74.8                  | 99.1        |
| 29            | SAN FRANCISCO                        | 768,263            | 1,715.3                          | 223.3               | 87.7                       | 82.7                  | 92.8        |
| 30            | SAN LUIS OBISPO                      | 230,691            | 512.0                            | 221.9               | 88.3                       | 78.9                  | 97.7        |
| 31            | SOLANO                               | 372,493            | 466.3                            | 125.2               | 90.1                       | 81.4                  | 98.7        |
| 32            | MADERA                               | 110,298            | 185.3                            | 168.0               | 90.3                       | 75.5                  | 105.1       |
| 33            | ALPINE                               | 1,194              | 1.3                              | 111.7 *             | 90.5 *                     | 0.0                   | 246.5       |
| 34            | SHASTA                               | 161,688            | 334.7                            | 207.0               | 90.6                       | 79.6                  | 101.7       |
| 35            | COLUSA                               | 18,197             | 34.0                             | 186.8               | 90.7                       | 54.9                  | 126.5       |
| 36            | HUMBOLDT                             | 125,100            | 228.7                            | 182.8               | 90.8                       | 77.3                  | 104.4       |
| 37            | AMADOR                               | 32,925             | 93.0                             | 282.5               | 91.6                       | 69.7                  | 113.5       |
| 38            | ALAMEDA                              | 1,365,041          | 2,323.0                          | 170.2               | 91.8                       | 87.6                  | 96.0        |
| 39            | SUTTER                               | 74,591             | 140.0                            | 187.7               | 92.0                       | 74.7                  | 109.3       |
| 40            | MENDOCINO                            | 84,817             | 173.0                            | 204.0               | 92.1                       | 76.4                  | 107.8       |
| 41            | SAN DIEGO                            | 2,694,956          | 4,603.7                          | 170.8               | 92.1                       | 89.0                  | 95.2        |
| 42            | FRESNO                               | 769,709            | 1,282.3                          | 166.6               | 95.0                       | 88.9                  | 101.0       |
| 43            | ORANGE                               | 2,649,846          | 4,424.3                          | 167.0               | 95.3                       | 92.2                  | 98.4        |
| 44            | MERCED                               | 198,390            | 280.7                            | 141.5               | 95.5                       | 83.2                  | 107.8       |
| 45            | IMPERIAL                             | 141,229            | 198.0                            | 140.2               | 96.3                       | 81.3                  | 111.3       |
|               | <b>CALIFORNIA</b>                    | <b>32,383,811</b>  | <b>57,858.3</b>                  | <b>178.7</b>        | <b>96.9</b>                | <b>96.0</b>           | <b>97.8</b> |
|               | <b>YEAR 2000 NATIONAL OBJECTIVE:</b> |                    |                                  |                     | <b>100.0</b>               |                       |             |
| 46            | DEL NORTE                            | 27,527             | 52.7                             | 191.3               | 100.9                      | 69.0                  | 132.8       |
| 47            | SAN JOAQUIN                          | 533,177            | 1,025.0                          | 192.2               | 102.1                      | 94.8                  | 109.4       |
| 48            | SACRAMENTO                           | 1,132,189          | 2,109.0                          | 186.3               | 103.7                      | 98.8                  | 108.6       |
| 49            | INYO                                 | 18,225             | 64.0                             | 351.2               | 104.9                      | 72.8                  | 136.9       |
| 50            | RIVERSIDE                            | 1,393,289          | 3,236.0                          | 232.3               | 107.5                      | 103.1                 | 111.9       |
| 51            | LOS ANGELES                          | 9,396,389          | 17,362.7                         | 184.8               | 109.7                      | 107.9                 | 111.5       |
| 52            | TULARE                               | 353,645            | 678.7                            | 191.9               | 110.5                      | 100.9                 | 120.1       |
| 53            | STANISLAUS                           | 418,455            | 839.7                            | 200.7               | 114.0                      | 105.2                 | 122.7       |
| 54            | KINGS                                | 115,774            | 171.3                            | 148.0               | 115.4                      | 96.4                  | 134.5       |
| 55            | YUBA                                 | 60,575             | 108.3                            | 178.8               | 117.0                      | 92.5                  | 141.4       |
| 56            | KERN                                 | 624,092            | 1,229.7                          | 197.0               | 117.7                      | 110.3                 | 125.2       |
| 57            | LAKE                                 | 54,884             | 176.3                            | 321.3               | 118.2                      | 96.1                  | 140.4       |
| 58            | SAN BERNARDINO                       | 1,592,711          | 2,934.3                          | 184.2               | 127.3                      | 122.2                 | 132.4       |

## **TABLE 11: DEATHS DUE TO CEREBROVASCULAR DISEASE (STROKE) 1995-1997**

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

*The crude death rate from cerebrovascular disease for California was 50.8 per 100,000 population, a risk of dying equivalent to approximately one death for every 1,970 persons. This rate was based on a three-year average number of deaths of 16,435.3 from 1995 to 1997, and a population of 32,383,811 as of July 1, 1996. Among counties with "reliable" rates, the crude rate ranged from 137.3 in Lake County to 39.9 in San Bernardino County, a difference in rates by a factor of 3.4 to 1.*

*The age-adjusted death rate from cerebrovascular disease for California for the three-year period from 1995 to 1997 was 26.1 per 100,000 population. Reliable age-adjusted death rates ranged from 34.8 in Solano County to 18.5 in Nevada County. The difference between crude and age-adjusted rates shows how the county age composition differs from the 1940 United States population.*

*Altogether 7 counties (1 with reliable age-adjusted death rates), but not California, met the Year 2000 National Objective of 20.0 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 1940 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. (See Technical Notes in the Appendix, pages 59 through 66).

### **DATA SOURCES**

Department of Health Services: Death Statistical Master Files, 1995-1997.

Department of Finance: 1996 Race/Ethnic Population by County with Age and Sex Detail, January 1998.

**TABLE 11**  
**DEATHS DUE TO CEREBROVASCULAR DISEASE**  
**RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE**  
**CALIFORNIA COUNTIES, 1995-1997**

| RANK ORDER                           | COUNTY          | 1996 POPULATION   | 1995-1997 DEATHS (AVERAGE) | CRUDE DEATH RATE | AGE-ADJUSTED DEATH RATE | 95% CONFIDENCE LIMITS |             |
|--------------------------------------|-----------------|-------------------|----------------------------|------------------|-------------------------|-----------------------|-------------|
|                                      |                 |                   |                            |                  |                         | LOWER                 | UPPER       |
| 1                                    | ALPINE          | 1,194             | 0.0                        | 0.0 +            | 0.0 +                   | -                     | -           |
| 2                                    | PLUMAS          | 20,239            | 8.3                        | 41.2 *           | 12.2 *                  | 2.1                   | 22.3        |
| 3                                    | SIERRA          | 3,401             | 1.7                        | 49.0 *           | 12.9 *                  | 0.0                   | 35.6        |
| 4                                    | LASSEN          | 32,631            | 8.7                        | 26.6 *           | 13.2 *                  | 3.2                   | 23.1        |
| 5                                    | MARIPOSA        | 15,965            | 8.7                        | 54.3 *           | 17.1 *                  | 3.3                   | 30.9        |
| 6                                    | NEVADA          | 87,001            | 61.7                       | 70.9             | 18.5                    | 12.9                  | 24.2        |
| 7                                    | MONO            | 10,565            | 2.3                        | 22.1 *           | 19.4 *                  | 0.0                   | 44.6        |
| <b>YEAR 2000 NATIONAL OBJECTIVE:</b> |                 |                   |                            |                  | <b>20.0</b>             |                       |             |
| 8                                    | SAN BENITO      | 44,008            | 19.7                       | 44.7             | 20.7 *                  | 10.1                  | 31.2        |
| 9                                    | SAN LUIS OBISPO | 230,691           | 145.7                      | 63.1             | 21.2                    | 17.0                  | 25.5        |
| 10                                   | AMADOR          | 32,925            | 27.3                       | 83.0             | 21.7 *                  | 11.9                  | 31.4        |
| 11                                   | MODOC           | 10,028            | 6.7                        | 66.5 *           | 21.9 *                  | 1.9                   | 41.9        |
| 12                                   | CALAVERAS       | 36,881            | 26.7                       | 72.3             | 22.0 *                  | 11.2                  | 32.8        |
| 13                                   | EL DORADO       | 144,710           | 75.3                       | 52.1             | 22.2                    | 16.7                  | 27.7        |
| 14                                   | SHASTA          | 161,688           | 99.7                       | 61.6             | 23.1                    | 17.9                  | 28.4        |
| 15                                   | MADERA          | 110,298           | 51.0                       | 46.2             | 23.6                    | 16.2                  | 31.0        |
| 16                                   | VENTURA         | 714,845           | 330.0                      | 46.2             | 23.9                    | 21.1                  | 26.8        |
| 17                                   | SANTA CLARA     | 1,638,352         | 681.0                      | 41.6             | 24.4                    | 22.4                  | 26.3        |
| 18                                   | SANTA BARBARA   | 393,716           | 240.7                      | 61.1             | 24.5                    | 20.7                  | 28.2        |
| 19                                   | RIVERSIDE       | 1,393,289         | 756.0                      | 54.3             | 24.5                    | 22.4                  | 26.6        |
| 20                                   | ORANGE          | 2,649,846         | 1,162.0                    | 43.9             | 24.6                    | 23.0                  | 26.1        |
| 21                                   | MARIN           | 239,630           | 163.3                      | 68.2             | 24.9                    | 20.5                  | 29.2        |
| 22                                   | SANTA CRUZ      | 243,657           | 143.7                      | 59.0             | 25.3                    | 20.3                  | 30.3        |
| 23                                   | LOS ANGELES     | 9,396,389         | 4,101.3                    | 43.6             | 25.4                    | 24.6                  | 26.3        |
| 24                                   | SAN DIEGO       | 2,694,956         | 1,395.7                    | 51.8             | 25.5                    | 24.0                  | 27.1        |
| 25                                   | DEL NORTE       | 27,527            | 14.0                       | 50.9 *           | 25.6 *                  | 10.7                  | 40.5        |
| 26                                   | FRESNO          | 769,709           | 380.3                      | 49.4             | 25.9                    | 22.8                  | 28.9        |
| 27                                   | SAN FRANCISCO   | 768,263           | 552.3                      | 71.9             | 25.9                    | 23.2                  | 28.5        |
| 28                                   | HUMBOLDT        | 125,100           | 70.7                       | 56.5             | 25.9                    | 18.9                  | 32.9        |
| 29                                   | KERN            | 624,092           | 275.7                      | 44.2             | 26.1                    | 22.6                  | 29.6        |
| 30                                   | PLACER          | 209,167           | 124.0                      | 59.3             | 26.1                    | 21.0                  | 31.3        |
| <b>CALIFORNIA</b>                    |                 | <b>32,383,811</b> | <b>16,435.3</b>            | <b>50.8</b>      | <b>26.1</b>             | <b>25.6</b>           | <b>26.5</b> |
| 31                                   | BUTTE           | 196,522           | 177.7                      | 90.4             | 26.5                    | 21.4                  | 31.7        |
| 32                                   | SAN BERNARDINO  | 1,592,711         | 635.7                      | 39.9             | 26.5                    | 24.3                  | 28.8        |
| 33                                   | MONTEREY        | 360,253           | 185.0                      | 51.4             | 26.7                    | 22.3                  | 31.1        |
| 34                                   | SAN MATEO       | 698,042           | 470.0                      | 67.3             | 26.9                    | 24.1                  | 29.6        |
| 35                                   | STANISLAUS      | 418,455           | 222.0                      | 53.1             | 27.0                    | 22.9                  | 31.1        |
| 36                                   | TUOLUMNE        | 51,583            | 36.3                       | 70.4             | 27.3                    | 16.4                  | 38.2        |
| 37                                   | YOLO            | 152,535           | 78.3                       | 51.4             | 27.7                    | 20.7                  | 34.8        |
| 38                                   | SISKIYOU        | 43,945            | 36.0                       | 81.9             | 27.8                    | 17.0                  | 38.6        |
| 39                                   | MENDOCINO       | 84,817            | 64.0                       | 75.5             | 28.4                    | 20.5                  | 36.2        |
| 40                                   | NAPA            | 118,949           | 111.7                      | 93.9             | 28.5                    | 22.0                  | 35.0        |
| 41                                   | CONTRA COSTA    | 877,965           | 533.7                      | 60.8             | 28.8                    | 26.1                  | 31.5        |
| 42                                   | MERCED          | 198,390           | 95.7                       | 48.2             | 29.2                    | 22.7                  | 35.7        |
| 43                                   | SACRAMENTO      | 1,132,189         | 614.0                      | 54.2             | 29.2                    | 26.7                  | 31.7        |
| 44                                   | SONOMA          | 424,481           | 335.7                      | 79.1             | 29.2                    | 25.5                  | 33.0        |
| 45                                   | IMPERIAL        | 141,229           | 63.0                       | 44.6             | 29.3                    | 21.1                  | 37.4        |
| 46                                   | ALAMEDA         | 1,365,041         | 769.0                      | 56.3             | 29.4                    | 27.0                  | 31.8        |
| 47                                   | INYO            | 18,225            | 19.7                       | 107.9            | 30.4 *                  | 13.4                  | 47.5        |
| 48                                   | GLENN           | 26,699            | 18.3                       | 68.7 *           | 30.7 *                  | 13.9                  | 47.5        |
| 49                                   | COLUSA          | 18,197            | 11.0                       | 60.4 *           | 31.0 *                  | 9.6                   | 52.3        |
| 50                                   | YUBA            | 60,575            | 33.0                       | 54.5             | 31.3                    | 19.2                  | 43.3        |
| 51                                   | TRINITY         | 13,328            | 9.7                        | 72.5 *           | 31.3 *                  | 8.9                   | 53.6        |
| 52                                   | SUTTER          | 74,591            | 59.7                       | 80.0             | 32.0                    | 22.6                  | 41.3        |
| 53                                   | SAN JOAQUIN     | 533,177           | 334.3                      | 62.7             | 32.1                    | 28.1                  | 36.2        |
| 54                                   | TULARE          | 353,645           | 214.7                      | 60.7             | 32.4                    | 27.3                  | 37.4        |
| 55                                   | KINGS           | 115,774           | 56.3                       | 48.7             | 32.7                    | 23.3                  | 42.2        |
| 56                                   | LAKE            | 54,884            | 75.3                       | 137.3            | 33.7                    | 23.5                  | 43.8        |
| 57                                   | TEHAMA          | 54,353            | 53.0                       | 97.5             | 34.6                    | 23.4                  | 45.9        |
| 58                                   | SOLANO          | 372,493           | 188.7                      | 50.6             | 34.8                    | 29.5                  | 40.1        |

## **TABLE 12: DRUG-RELATED DEATHS, 1995-1997**

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

*The crude death rate from drug-related deaths for California was 8.5 per 100,000 population, a risk of dying equivalent to approximately one death for every 11,770 persons. This rate was based on a three-year average number of deaths of 2,746.7 from 1995 to 1997, and a population of 32,383,811 as of July 1, 1996. Among counties with "reliable" rates, the crude rate ranged from 23.4 in San Francisco County to 5.1 in Santa Clara County, a difference in rates by a factor of 4.6 to 1.*

*The age-adjusted death rate from drug-related deaths for California for the three-year period from 1995 to 1997 was 7.9 per 100,000 population. Reliable age-adjusted death rates ranged from 19.3 in San Francisco County to 4.5 in Santa Clara County. The difference between crude and age-adjusted rates shows how the county age composition differs from the 1940 United States population.*

*Altogether 6 counties (none with reliable age-adjusted death rates), but not California, met the Year 2000 National Objective of 3.0 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 1940 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. (See Technical Notes in the Appendix, pages 59 through 66).

### **DATA SOURCES**

Department of Health Services: Death Statistical Master Files, 1995-1997.

Department of Finance: 1996 Race/Ethnic Population by County with Age and Sex Detail, January 1998.

**TABLE 12**  
**DRUG-RELATED DEATHS**  
**RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE**  
**CALIFORNIA COUNTIES, 1995-1997**

| RANK ORDER                           | COUNTY            | 1996 POPULATION   | 1995-1997 DEATHS (AVERAGE) | CRUDE DEATH RATE | AGE-ADJUSTED DEATH RATE | 95% CONFIDENCE LIMITS |            |
|--------------------------------------|-------------------|-------------------|----------------------------|------------------|-------------------------|-----------------------|------------|
|                                      |                   |                   |                            |                  |                         | LOWER                 | UPPER      |
| 1                                    | ALPINE            | 1,194             | 0.0                        | 0.0 +            | 0.0 +                   | -                     | -          |
| 2                                    | GLENN             | 26,699            | 0.3                        | 1.2 *            | 0.4 *                   | 0.0                   | 2.0        |
| 3                                    | SISKIYOU          | 43,945            | 0.3                        | 0.8 *            | 0.7 *                   | 0.0                   | 3.1        |
| 4                                    | PLUMAS            | 20,239            | 0.3                        | 1.6 *            | 1.5 *                   | 0.0                   | 6.5        |
| 5                                    | SUTTER            | 74,591            | 1.7                        | 2.2 *            | 2.3 *                   | 0.0                   | 5.9        |
| 6                                    | SAN BENITO        | 44,008            | 1.0                        | 2.3 *            | 2.4 *                   | 0.0                   | 7.3        |
| <b>YEAR 2000 NATIONAL OBJECTIVE:</b> |                   |                   |                            |                  | <b>3.0</b>              |                       |            |
| 7                                    | COLUSA            | 18,197            | 0.7                        | 3.7 *            | 3.7 *                   | 0.0                   | 12.6       |
| 8                                    | PLACER            | 209,167           | 9.7                        | 4.6 *            | 3.8 *                   | 1.3                   | 6.3        |
| 9                                    | TRINITY           | 13,328            | 1.0                        | 7.5 *            | 4.1 *                   | 0.0                   | 12.6       |
| 10                                   | TEHAMA            | 54,353            | 3.3                        | 6.1 *            | 4.4 *                   | 0.0                   | 9.6        |
| 11                                   | SANTA CLARA       | 1,638,352         | 84.3                       | 5.1              | 4.5                     | 3.5                   | 5.5        |
| 12                                   | KINGS             | 115,774           | 5.7                        | 4.9 *            | 4.7 *                   | 0.8                   | 8.5        |
| 13                                   | INYO              | 18,225            | 1.0                        | 5.5 *            | 4.9 *                   | 0.0                   | 14.5       |
| 14                                   | CALAVERAS         | 36,881            | 2.0                        | 5.4 *            | 4.9 *                   | 0.0                   | 11.7       |
| 15                                   | SOLANO            | 372,493           | 21.0                       | 5.6              | 5.1                     | 2.9                   | 7.3        |
| 16                                   | YUBA              | 60,575            | 3.0                        | 5.0 *            | 5.2 *                   | 0.0                   | 11.2       |
| 17                                   | YOLO              | 152,535           | 8.0                        | 5.2 *            | 5.4 *                   | 1.6                   | 9.1        |
| 18                                   | MODOC             | 10,028            | 0.3                        | 3.3 *            | 5.7 *                   | 0.0                   | 24.9       |
| 19                                   | SAN MATEO         | 698,042           | 46.7                       | 6.7              | 5.8                     | 4.1                   | 7.5        |
| 20                                   | MADERA            | 110,298           | 6.0                        | 5.4 *            | 5.8 *                   | 1.2                   | 10.4       |
| 21                                   | MERCED            | 198,390           | 11.3                       | 5.7 *            | 6.0 *                   | 2.5                   | 9.5        |
| 22                                   | NEVADA            | 87,001            | 5.0                        | 5.7 *            | 6.1 *                   | 0.4                   | 11.7       |
| 23                                   | FRESNO            | 769,709           | 45.7                       | 5.9              | 6.1                     | 4.3                   | 7.9        |
| 24                                   | CONTRA COSTA      | 877,965           | 62.3                       | 7.1              | 6.3                     | 4.7                   | 7.9        |
| 25                                   | TUOLUMNE          | 51,583            | 3.7                        | 7.1 *            | 6.4 *                   | 0.0                   | 13.2       |
| 26                                   | ORANGE            | 2,649,846         | 186.7                      | 7.0              | 6.4                     | 5.4                   | 7.3        |
| 27                                   | NAPA              | 118,949           | 8.3                        | 7.0 *            | 6.5 *                   | 2.0                   | 10.9       |
| 28                                   | MONO              | 10,565            | 1.0                        | 9.5 *            | 6.5 *                   | 0.0                   | 20.1       |
| 29                                   | LASSEN            | 32,631            | 2.3                        | 7.2 *            | 6.6 *                   | 0.0                   | 15.2       |
| 30                                   | MARIPOSA          | 15,965            | 1.0                        | 6.3 *            | 6.7 *                   | 0.0                   | 20.4       |
| 31                                   | BUTTE             | 196,522           | 14.3                       | 7.3 *            | 7.0 *                   | 3.3                   | 10.8       |
| 32                                   | VENTURA           | 714,845           | 54.7                       | 7.6              | 7.1                     | 5.2                   | 9.1        |
| 33                                   | MARIN             | 239,630           | 21.3                       | 8.9              | 7.4                     | 4.1                   | 10.7       |
| 34                                   | SAN BERNARDINO    | 1,592,711         | 121.0                      | 7.6              | 7.5                     | 6.1                   | 8.8        |
| 35                                   | LOS ANGELES       | 9,396,389         | 764.7                      | 8.1              | 7.6                     | 7.1                   | 8.2        |
| 36                                   | AMADOR            | 32,925            | 2.7                        | 8.1 *            | 7.7 *                   | 0.0                   | 17.4       |
| 37                                   | SHASTA            | 161,688           | 13.7                       | 8.5 *            | 7.7 *                   | 3.5                   | 12.0       |
| 38                                   | SIERRA            | 3,401             | 0.3                        | 9.8 *            | 7.8 *                   | 0.0                   | 34.2       |
|                                      | <b>CALIFORNIA</b> | <b>32,383,811</b> | <b>2,746.7</b>             | <b>8.5</b>       | <b>7.9</b>              | <b>7.6</b>            | <b>8.2</b> |
| 39                                   | SACRAMENTO        | 1,132,189         | 98.7                       | 8.7              | 8.0                     | 6.4                   | 9.6        |
| 40                                   | RIVERSIDE         | 1,393,289         | 112.3                      | 8.1              | 8.0                     | 6.5                   | 9.5        |
| 41                                   | SANTA CRUZ        | 243,657           | 24.0                       | 9.8              | 8.6                     | 5.1                   | 12.1       |
| 42                                   | MENDOCINO         | 84,817            | 7.3                        | 8.6 *            | 8.8 *                   | 2.1                   | 15.4       |
| 43                                   | EL DORADO         | 144,710           | 14.0                       | 9.7 *            | 8.8 *                   | 4.0                   | 13.7       |
| 44                                   | ALAMEDA           | 1,365,041         | 138.7                      | 10.2             | 9.0                     | 7.5                   | 10.5       |
| 45                                   | MONTEREY          | 360,253           | 34.0                       | 9.4              | 9.1                     | 5.9                   | 12.2       |
| 46                                   | SONOMA            | 424,481           | 44.7                       | 10.5             | 9.3                     | 6.4                   | 12.1       |
| 47                                   | SAN DIEGO         | 2,694,956         | 260.7                      | 9.7              | 9.6                     | 8.4                   | 10.7       |
| 48                                   | SAN LUIS OBISPO   | 230,691           | 23.0                       | 10.0             | 9.6                     | 5.6                   | 13.6       |
| 49                                   | STANISLAUS        | 418,455           | 40.0                       | 9.6              | 9.6                     | 6.6                   | 12.6       |
| 50                                   | DEL NORTE         | 27,527            | 3.3                        | 12.1 *           | 9.8 *                   | 0.0                   | 21.0       |
| 51                                   | TULARE            | 353,645           | 32.3                       | 9.1              | 9.8                     | 6.4                   | 13.3       |
| 52                                   | SANTA BARBARA     | 393,716           | 43.7                       | 11.1             | 10.3                    | 7.2                   | 13.4       |
| 53                                   | IMPERIAL          | 141,229           | 13.0                       | 9.2 *            | 10.5 *                  | 4.7                   | 16.2       |
| 54                                   | KERN              | 624,092           | 70.3                       | 11.3             | 11.1                    | 8.5                   | 13.8       |
| 55                                   | SAN JOAQUIN       | 533,177           | 62.7                       | 11.8             | 11.6                    | 8.7                   | 14.5       |
| 56                                   | HUMBOLDT          | 125,100           | 18.7                       | 14.9 *           | 13.8 *                  | 7.5                   | 20.2       |
| 57                                   | LAKE              | 54,884            | 9.0                        | 16.4 *           | 15.3 *                  | 5.2                   | 25.5       |
| 58                                   | SAN FRANCISCO     | 768,263           | 180.0                      | 23.4             | 19.3                    | 16.4                  | 22.3       |



## **TABLE 13: REPORTED INCIDENCE OF AIDS, 1995-1997**

California Counties Ranked By Three-Year Average Crude Case Rate

*The crude case rate of reported AIDS cases for California was 22.06 cases per 100,000 population or approximately one reported AIDS case for every 4,532 persons. This rate was based on a 1995 to 1997 three-year average reported number of cases of 7,145.00, and a population of 32,383,811 as of July 1, 1996. Among counties with "reliable" rates, the crude case rate ranged from 143.96 in San Francisco to 8.20 in Stanislaus County, a difference in rates by a factor of 17.6 to 1.*

*The Year 2000 National Objective midcourse revision for incidence of AIDS is 43.00 cases per 100,000 population.*

*Altogether 57 counties (22 with reliable case rates) and California as a whole met the Year 2000 National Objective of 43.00 cases per 100,000 population.*

### **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. (See additional Technical Notes in the Appendix, pages 59 through 66).

### **DATA SOURCES**

Department of Health Services: Office of AIDS, AIDS Reporting System.

Department of Finance: 1996 Race/Ethnic Population by County with Age and Sex Detail, January 1998.

**TABLE 13**  
**REPORTED INCIDENCE OF AIDS**  
**RANKED BY THREE-YEAR AVERAGE CRUDE CASE RATE**  
**CALIFORNIA COUNTIES, 1995-1997**

| RANK<br>ORDER | COUNTY            | 1996<br>POPULATION                   | 1995-1997<br>CASES<br>(AVERAGE) | CRUDE<br>CASE RATE | 95% CONFIDENCE LIMITS |              |
|---------------|-------------------|--------------------------------------|---------------------------------|--------------------|-----------------------|--------------|
|               |                   |                                      |                                 |                    | LOWER                 | UPPER        |
| 1             | MODOC             | 10,028                               | 0.00                            | 0.00 +             | -                     | -            |
| 2             | SIERRA            | 3,401                                | 0.00                            | 0.00 +             | -                     | -            |
| 3             | ALPINE            | 1,194                                | 0.00                            | 0.00 +             | -                     | -            |
| 4             | TEHAMA            | 54,353                               | 0.67                            | 1.23 *             | 0.00                  | 4.17         |
| 5             | MONO              | 10,565                               | 0.33                            | 3.16 *             | 0.00                  | 13.87        |
| 6             | PLUMAS            | 20,239                               | 0.67                            | 3.29 *             | 0.00                  | 11.20        |
| 7             | SHASTA            | 161,688                              | 5.33                            | 3.30 *             | 0.50                  | 6.10         |
| 8             | GLENN             | 26,699                               | 1.00                            | 3.75 *             | 0.00                  | 11.09        |
| 9             | PLACER            | 209,167                              | 8.33                            | 3.98 *             | 1.28                  | 6.69         |
| 10            | TULARE            | 353,645                              | 15.67                           | 4.43 *             | 2.24                  | 6.62         |
| 11            | CALAVERAS         | 36,881                               | 1.67                            | 4.52 *             | 0.00                  | 11.38        |
| 12            | SAN BENITO        | 44,008                               | 2.00                            | 4.54 *             | 0.00                  | 10.84        |
| 13            | BUTTE             | 196,522                              | 9.00                            | 4.58 *             | 1.59                  | 7.57         |
| 14            | EL DORADO         | 144,710                              | 7.00                            | 4.84 *             | 1.25                  | 8.42         |
| 15            | DEL NORTE         | 27,527                               | 1.33                            | 4.84 *             | 0.00                  | 13.07        |
| 16            | YUBA              | 60,575                               | 3.00                            | 4.95 *             | 0.00                  | 10.56        |
| 17            | TRINITY           | 13,328                               | 0.67                            | 5.00 *             | 0.00                  | 17.01        |
| 18            | MERCED            | 198,390                              | 10.33                           | 5.21 *             | 2.03                  | 8.38         |
| 19            | COLUSA            | 18,197                               | 1.00                            | 5.50 *             | 0.00                  | 16.27        |
| 20            | MARIPOSA          | 15,965                               | 1.00                            | 6.26 *             | 0.00                  | 18.54        |
| 21            | MADERA            | 110,298                              | 7.00                            | 6.35 *             | 1.64                  | 11.05        |
| 22            | SUTTER            | 74,591                               | 5.00                            | 6.70 *             | 0.83                  | 12.58        |
| 23            | IMPERIAL          | 141,229                              | 10.00                           | 7.08 *             | 2.69                  | 11.47        |
| 24            | TUOLUMNE          | 51,583                               | 3.67                            | 7.11 *             | 0.00                  | 14.38        |
| 25            | YOLO              | 152,535                              | 11.00                           | 7.21 *             | 2.95                  | 11.47        |
| 26            | INYO              | 18,225                               | 1.33                            | 7.32 *             | 0.00                  | 19.73        |
| 27            | HUMBOLDT          | 125,100                              | 9.67                            | 7.73 *             | 2.86                  | 12.60        |
| 28            | STANISLAUS        | 418,455                              | 34.33                           | 8.20               | 5.46                  | 10.95        |
| 29            | SISKIYOU          | 43,945                               | 3.67                            | 8.34 *             | 0.00                  | 16.88        |
| 30            | NAPA              | 118,949                              | 10.00                           | 8.41 *             | 3.20                  | 13.62        |
| 31            | VENTURA           | 714,845                              | 64.33                           | 9.00               | 6.80                  | 11.20        |
| 32            | NEVADA            | 87,001                               | 8.00                            | 9.20 *             | 2.82                  | 15.57        |
| 33            | SAN JOAQUIN       | 533,177                              | 51.67                           | 9.69               | 7.05                  | 12.33        |
| 34            | MENDOCINO         | 84,817                               | 8.33                            | 9.83 *             | 3.15                  | 16.50        |
| 35            | SANTA BARBARA     | 393,716                              | 39.33                           | 9.99               | 6.87                  | 13.11        |
| 36            | SAN BERNARDINO    | 1,592,711                            | 184.33                          | 11.57              | 9.90                  | 13.24        |
| 37            | SANTA CRUZ        | 243,657                              | 29.00                           | 11.90              | 7.57                  | 16.23        |
| 38            | FRESNO            | 769,709                              | 93.00                           | 12.08              | 9.63                  | 14.54        |
| 39            | SANTA CLARA       | 1,638,352                            | 201.00                          | 12.27              | 10.57                 | 13.96        |
| 40            | SAN MATEO         | 698,042                              | 89.00                           | 12.75              | 10.10                 | 15.40        |
| 41            | ORANGE            | 2,649,846                            | 355.00                          | 13.40              | 12.00                 | 14.79        |
| 42            | SACRAMENTO        | 1,132,189                            | 168.67                          | 14.90              | 12.65                 | 17.15        |
| 43            | KINGS             | 115,774                              | 17.33                           | 14.97 *            | 7.92                  | 22.02        |
| 44            | KERN              | 624,092                              | 95.33                           | 15.28              | 12.21                 | 18.34        |
| 45            | LAKE              | 54,884                               | 8.67                            | 15.79 *            | 5.28                  | 26.30        |
| 46            | CONTRA COSTA      | 877,965                              | 139.00                          | 15.83              | 13.20                 | 18.46        |
| 47            | MONTEREY          | 360,253                              | 57.33                           | 15.91              | 11.80                 | 20.03        |
| 48            | SAN LUIS OBISPO   | 230,691                              | 39.67                           | 17.19              | 11.84                 | 22.55        |
| 49            | AMADOR            | 32,925                               | 6.00                            | 18.22 *            | 3.64                  | 32.80        |
| 50            | RIVERSIDE         | 1,393,289                            | 256.67                          | 18.42              | 16.17                 | 20.68        |
| 51            | LASSEN            | 32,631                               | 7.00                            | 21.45 *            | 5.56                  | 37.34        |
| 52            | SONOMA            | 424,481                              | 92.00                           | 21.67              | 17.24                 | 26.10        |
|               | <b>CALIFORNIA</b> | <b>32,383,811</b>                    | <b>7,145.00</b>                 | <b>22.06</b>       | <b>21.55</b>          | <b>22.58</b> |
| 53            | SOLANO            | 372,493                              | 83.33                           | 22.37              | 17.57                 | 27.18        |
| 54            | SAN DIEGO         | 2,694,956                            | 726.67                          | 26.96              | 25.00                 | 28.92        |
| 55            | LOS ANGELES       | 9,396,389                            | 2,571.00                        | 27.36              | 26.30                 | 28.42        |
| 56            | ALAMEDA           | 1,365,041                            | 377.67                          | 27.67              | 24.88                 | 30.46        |
| 57            | MARIN             | 239,630                              | 91.67                           | 38.25              | 30.42                 | 46.08        |
|               |                   | <b>YEAR 2000 NATIONAL OBJECTIVE:</b> |                                 | <b>43.00</b>       |                       |              |
| 58            | SAN FRANCISCO     | 768,263                              | 1,106.00                        | 143.96             | 135.48                | 152.45       |

## **TABLE 14: REPORTED INCIDENCE OF MEASLES, 1995-1997**

California Counties Ranked By Three-Year Average Crude Case Rate

*The crude case rate of reported measles cases for California was 0.19 cases per 100,000 population or approximately one reported measles case for every 525,114 persons. This rate was based on a 1995 to 1997 three-year average reported number of cases of 61.67, and a population of 32,383,811 as of July 1, 1996. Ventura County's 3.59 crude case rate was the only "reliable" rate among the 58 counties.*

*Altogether 33 counties met the Year 2000 National Objectives 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 2000 National Objective has been met by these counties as well.*

*The Year 2000 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.*

### **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. (See additional Technical Notes in the Appendix, pages 59 through 66).

### **DATA SOURCES**

Department of Health Services: Division of Communicable Disease Control.

Department of Finance: 1996 Race/Ethnic Population by County with Age and Sex Detail, January 1998.

**TABLE 14**  
**REPORTED INCIDENCE OF MEASLES**  
**RANKED BY THREE-YEAR AVERAGE CRUDE CASE RATE**  
**CALIFORNIA COUNTIES, 1995-1997**

| RANK<br>ORDER                        | COUNTY          | 1996<br>POPULATION | 1995-1997<br>CASES<br>(AVERAGE) | CRUDE<br>CASE RATE | 95% CONFIDENCE LIMITS |             |
|--------------------------------------|-----------------|--------------------|---------------------------------|--------------------|-----------------------|-------------|
|                                      |                 |                    |                                 |                    | LOWER                 | UPPER       |
| 1                                    | SONOMA          | 424,481            | 0.00                            | 0.00 +             | -                     | -           |
| 2                                    | STANISLAUS      | 418,455            | 0.00                            | 0.00 +             | -                     | -           |
| 3                                    | SANTA BARBARA   | 393,716            | 0.00                            | 0.00 +             | -                     | -           |
| 4                                    | MONTEREY        | 360,253            | 0.00                            | 0.00 +             | -                     | -           |
| 5                                    | MARIN           | 239,630            | 0.00                            | 0.00 +             | -                     | -           |
| 6                                    | SAN LUIS OBISPO | 230,691            | 0.00                            | 0.00 +             | -                     | -           |
| 7                                    | BUTTE           | 196,522            | 0.00                            | 0.00 +             | -                     | -           |
| 8                                    | SHASTA          | 161,688            | 0.00                            | 0.00 +             | -                     | -           |
| 9                                    | YOLO            | 152,535            | 0.00                            | 0.00 +             | -                     | -           |
| 10                                   | EL DORADO       | 144,710            | 0.00                            | 0.00 +             | -                     | -           |
| 11                                   | IMPERIAL        | 141,229            | 0.00                            | 0.00 +             | -                     | -           |
| 12                                   | HUMBOLDT        | 125,100            | 0.00                            | 0.00 +             | -                     | -           |
| 13                                   | NAPA            | 118,949            | 0.00                            | 0.00 +             | -                     | -           |
| 14                                   | KINGS           | 115,774            | 0.00                            | 0.00 +             | -                     | -           |
| 15                                   | MADERA          | 110,298            | 0.00                            | 0.00 +             | -                     | -           |
| 16                                   | MENDOCINO       | 84,817             | 0.00                            | 0.00 +             | -                     | -           |
| 17                                   | SUTTER          | 74,591             | 0.00                            | 0.00 +             | -                     | -           |
| 18                                   | YUBA            | 60,575             | 0.00                            | 0.00 +             | -                     | -           |
| 19                                   | LAKE            | 54,884             | 0.00                            | 0.00 +             | -                     | -           |
| 20                                   | TEHAMA          | 54,353             | 0.00                            | 0.00 +             | -                     | -           |
| 21                                   | SAN BENITO      | 44,008             | 0.00                            | 0.00 +             | -                     | -           |
| 22                                   | SISKIYOU        | 43,945             | 0.00                            | 0.00 +             | -                     | -           |
| 23                                   | CALAVERAS       | 36,881             | 0.00                            | 0.00 +             | -                     | -           |
| 24                                   | AMADOR          | 32,925             | 0.00                            | 0.00 +             | -                     | -           |
| 25                                   | LASSEN          | 32,631             | 0.00                            | 0.00 +             | -                     | -           |
| 26                                   | DEL NORTE       | 27,527             | 0.00                            | 0.00 +             | -                     | -           |
| 27                                   | GLENN           | 26,699             | 0.00                            | 0.00 +             | -                     | -           |
| 28                                   | PLUMAS          | 20,239             | 0.00                            | 0.00 +             | -                     | -           |
| 29                                   | MARIPOSA        | 15,965             | 0.00                            | 0.00 +             | -                     | -           |
| 30                                   | TRINITY         | 13,328             | 0.00                            | 0.00 +             | -                     | -           |
| 31                                   | MODOC           | 10,028             | 0.00                            | 0.00 +             | -                     | -           |
| 32                                   | SIERRA          | 3,401              | 0.00                            | 0.00 +             | -                     | -           |
| 33                                   | ALPINE          | 1,194              | 0.00                            | 0.00 +             | -                     | -           |
| <b>YEAR 2000 NATIONAL OBJECTIVE:</b> |                 |                    |                                 | <b>0.00</b>        |                       |             |
| 34                                   | SANTA CLARA     | 1,638,352          | 0.33                            | 0.02 *             | 0.00                  | 0.09        |
| 35                                   | SACRAMENTO      | 1,132,189          | 0.33                            | 0.03 *             | 0.00                  | 0.13        |
| 36                                   | LOS ANGELES     | 9,396,389          | 5.00                            | 0.05 *             | 0.01                  | 0.10        |
| 37                                   | SAN DIEGO       | 2,694,956          | 2.33                            | 0.09 *             | 0.00                  | 0.20        |
| 38                                   | SOLANO          | 372,493            | 0.33                            | 0.09 *             | 0.00                  | 0.39        |
| 39                                   | SAN MATEO       | 698,042            | 0.67                            | 0.10 *             | 0.00                  | 0.32        |
| 40                                   | FRESNO          | 769,709            | 1.00                            | 0.13 *             | 0.00                  | 0.38        |
| 41                                   | PLACER          | 209,167            | 0.33                            | 0.16 *             | 0.00                  | 0.70        |
| 42                                   | MERCED          | 198,390            | 0.33                            | 0.17 *             | 0.00                  | 0.74        |
| 43                                   | SAN FRANCISCO   | 768,263            | 1.33                            | 0.17 *             | 0.00                  | 0.47        |
| 44                                   | ORANGE          | 2,649,846          | 4.67                            | 0.18 *             | 0.02                  | 0.34        |
| 45                                   | SAN JOAQUIN     | 533,177            | 1.00                            | 0.19 *             | 0.00                  | 0.56        |
| 46                                   | SAN BERNARDINO  | 1,592,711          | 3.00                            | 0.19 *             | 0.00                  | 0.40        |
| 47                                   | TULARE          | 353,645            | 0.67                            | 0.19 *             | 0.00                  | 0.64        |
| 48                                   | CONTRA COSTA    | 877,965            | 1.67                            | 0.19 *             | 0.00                  | 0.48        |
| <b>CALIFORNIA</b>                    |                 | <b>32,383,811</b>  | <b>61.67</b>                    | <b>0.19</b>        | <b>0.14</b>           | <b>0.24</b> |
| 49                                   | ALAMEDA         | 1,365,041          | 2.67                            | 0.20 *             | 0.00                  | 0.43        |
| 50                                   | SANTA CRUZ      | 243,657            | 0.67                            | 0.27 *             | 0.00                  | 0.93        |
| 51                                   | RIVERSIDE       | 1,393,289          | 4.33                            | 0.31 *             | 0.02                  | 0.60        |
| 52                                   | NEVADA          | 87,001             | 0.33                            | 0.38 *             | 0.00                  | 1.68        |
| 53                                   | KERN            | 624,092            | 2.67                            | 0.43 *             | 0.00                  | 0.94        |
| 54                                   | TUOLUMNE        | 51,583             | 0.33                            | 0.65 *             | 0.00                  | 2.84        |
| 55                                   | COLUSA          | 18,197             | 0.33                            | 1.83 *             | 0.00                  | 8.05        |
| 56                                   | VENTURA         | 714,845            | 25.67                           | 3.59               | 2.20                  | 4.98        |
| 57                                   | INYO            | 18,225             | 1.00                            | 5.49 *             | 0.00                  | 16.24       |
| 58                                   | MONO            | 10,565             | 0.67                            | 6.31 *             | 0.00                  | 21.46       |

## **TABLE 15: REPORTED INCIDENCE OF TUBERCULOSIS, 1995-1997**

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

*The crude case rate of reported tuberculosis cases for California was 13.43 cases per 100,000 population or approximately one reported tuberculosis case for every 7,446 persons. This rate was based on a 1995 to 1997 three-year average reported number of cases of 4,349.00, and a population of 32,383,811 as of July 1, 1996.*

*Among counties with "reliable" rates, the crude case rate ranged from 33.58 in San Francisco to 6.24 in Riverside County, a difference in rates by a factor of 5.4 to 1.*

*Altogether 16 counties, (none with reliable case rates), but not California, 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. (See additional Technical Notes in the Appendix, pages 59 through 66).

#### **DATA SOURCES**

Department of Health Services: Division of Communicable Disease Control.

Department of Finance: 1996 Race/Ethnic Population by County with Age and Sex Detail, January 1998.

**TABLE 15**  
**REPORTED INCIDENCE OF TUBERCULOSIS**  
**RANKED BY THREE-YEAR AVERAGE CRUDE CASE RATE**  
**CALIFORNIA COUNTIES, 1995-1997**

| RANK ORDER                           | COUNTY          | 1996 POPULATION   | 1995-1997 CASES (AVERAGE) | CRUDE CASE RATE | 95% CONFIDENCE LIMITS |              |
|--------------------------------------|-----------------|-------------------|---------------------------|-----------------|-----------------------|--------------|
|                                      |                 |                   |                           |                 | LOWER                 | UPPER        |
| 1                                    | NEVADA          | 87,001            | 0.00                      | 0.00 +          | -                     | -            |
| 2                                    | CALAVERAS       | 36,881            | 0.00                      | 0.00 +          | -                     | -            |
| 3                                    | INYO            | 18,225            | 0.00                      | 0.00 +          | -                     | -            |
| 4                                    | MARIPOSA        | 15,965            | 0.00                      | 0.00 +          | -                     | -            |
| 5                                    | MONO            | 10,565            | 0.00                      | 0.00 +          | -                     | -            |
| 6                                    | MODOC           | 10,028            | 0.00                      | 0.00 +          | -                     | -            |
| 7                                    | SIERRA          | 3,401             | 0.00                      | 0.00 +          | -                     | -            |
| 8                                    | ALPINE          | 1,194             | 0.00                      | 0.00 +          | -                     | -            |
| 9                                    | TUOLUMNE        | 51,583            | 0.33                      | 0.65 *          | 0.00                  | 2.84         |
| 10                                   | DEL NORTE       | 27,527            | 0.33                      | 1.21 *          | 0.00                  | 5.32         |
| 11                                   | SISKIYOU        | 43,945            | 0.67                      | 1.52 *          | 0.00                  | 5.16         |
| 12                                   | MENDOCINO       | 84,817            | 1.33                      | 1.57 *          | 0.00                  | 4.24         |
| 13                                   | AMADOR          | 32,925            | 0.67                      | 2.02 *          | 0.00                  | 6.89         |
| 14                                   | PLACER          | 209,167           | 4.67                      | 2.23 *          | 0.21                  | 4.26         |
| 15                                   | EL DORADO       | 144,710           | 3.33                      | 2.30 *          | 0.00                  | 4.78         |
| 16                                   | LASSEN          | 32,631            | 1.00                      | 3.06 *          | 0.00                  | 9.07         |
| <b>YEAR 2000 NATIONAL OBJECTIVE:</b> |                 |                   |                           | <b>3.50</b>     |                       |              |
| 17                                   | SHASTA          | 161,688           | 6.00                      | 3.71 *          | 0.74                  | 6.68         |
| 18                                   | GLENN           | 26,699            | 1.00                      | 3.75 *          | 0.00                  | 11.09        |
| 19                                   | BUTTE           | 196,522           | 7.67                      | 3.90 *          | 1.14                  | 6.66         |
| 20                                   | SONOMA          | 424,481           | 18.33                     | 4.32 *          | 2.34                  | 6.30         |
| 21                                   | SAN LUIS OBISPO | 230,691           | 11.33                     | 4.91 *          | 2.05                  | 7.77         |
| 22                                   | SAN BENITO      | 44,008            | 2.33                      | 5.30 *          | 0.00                  | 12.11        |
| 23                                   | NAPA            | 118,949           | 7.00                      | 5.88 *          | 1.53                  | 10.24        |
| 24                                   | RIVERSIDE       | 1,393,289         | 87.00                     | 6.24            | 4.93                  | 7.56         |
| 25                                   | HUMBOLDT        | 125,100           | 8.33                      | 6.66 *          | 2.14                  | 11.18        |
| 26                                   | MARIN           | 239,630           | 16.67                     | 6.96 *          | 3.62                  | 10.29        |
| 27                                   | LAKE            | 54,884            | 4.00                      | 7.29 *          | 0.15                  | 14.43        |
| 28                                   | COLUSA          | 18,197            | 1.33                      | 7.33 *          | 0.00                  | 19.76        |
| 29                                   | TEHAMA          | 54,353            | 4.00                      | 7.36 *          | 0.15                  | 14.57        |
| 30                                   | TRINITY         | 13,328            | 1.00                      | 7.50 *          | 0.00                  | 22.21        |
| 31                                   | MERCED          | 198,390           | 15.67                     | 7.90 *          | 3.99                  | 11.81        |
| 32                                   | STANISLAUS      | 418,455           | 33.33                     | 7.97            | 5.26                  | 10.67        |
| 33                                   | SANTA CRUZ      | 243,657           | 19.67                     | 8.07            | 4.50                  | 11.64        |
| 34                                   | SAN BERNARDINO  | 1,592,711         | 129.33                    | 8.12            | 6.72                  | 9.52         |
| 35                                   | PLUMAS          | 20,239            | 1.67                      | 8.23 *          | 0.00                  | 20.74        |
| 36                                   | YOLO            | 152,535           | 13.00                     | 8.52 *          | 3.89                  | 13.16        |
| 37                                   | MADERA          | 110,298           | 10.33                     | 9.37 *          | 3.66                  | 15.08        |
| 38                                   | TULARE          | 353,645           | 33.67                     | 9.52            | 6.30                  | 12.74        |
| 39                                   | FRESNO          | 769,709           | 77.67                     | 10.09           | 7.85                  | 12.33        |
| 40                                   | VENTURA         | 714,845           | 74.00                     | 10.35           | 7.99                  | 12.71        |
| 41                                   | YUBA            | 60,575            | 6.33                      | 10.46 *         | 2.31                  | 18.60        |
| 42                                   | KERN            | 624,092           | 71.33                     | 11.43           | 8.78                  | 14.08        |
| 43                                   | ORANGE          | 2,649,846         | 313.00                    | 11.81           | 10.50                 | 13.12        |
| 44                                   | SUTTER          | 74,591            | 9.00                      | 12.07 *         | 4.18                  | 19.95        |
| 45                                   | SACRAMENTO      | 1,132,189         | 139.00                    | 12.28           | 10.24                 | 14.32        |
| 46                                   | MONTEREY        | 360,253           | 44.67                     | 12.40           | 8.76                  | 16.03        |
| 47                                   | CONTRA COSTA    | 877,965           | 109.67                    | 12.49           | 10.15                 | 14.83        |
| 48                                   | SAN MATEO       | 698,042           | 87.67                     | 12.56           | 9.93                  | 15.19        |
| 49                                   | SAN JOAQUIN     | 533,177           | 71.33                     | 13.38           | 10.27                 | 16.48        |
| <b>CALIFORNIA</b>                    |                 | <b>32,383,811</b> | <b>4,349.00</b>           | <b>13.43</b>    | <b>13.03</b>          | <b>13.83</b> |
| 50                                   | SANTA BARBARA   | 393,716           | 56.00                     | 14.22           | 10.50                 | 17.95        |
| 51                                   | SAN DIEGO       | 2,694,956         | 385.67                    | 14.31           | 12.88                 | 15.74        |
| 52                                   | SOLANO          | 372,493           | 56.33                     | 15.12           | 11.17                 | 19.07        |
| 53                                   | LOS ANGELES     | 9,396,389         | 1,566.33                  | 16.67           | 15.84                 | 17.50        |
| 54                                   | SANTA CLARA     | 1,638,352         | 280.33                    | 17.11           | 15.11                 | 19.11        |
| 55                                   | ALAMEDA         | 1,365,041         | 237.67                    | 17.41           | 15.20                 | 19.62        |
| 56                                   | KINGS           | 115,774           | 21.00                     | 18.14           | 10.38                 | 25.90        |
| 57                                   | IMPERIAL        | 141,229           | 39.00                     | 27.61           | 18.95                 | 36.28        |
| 58                                   | SAN FRANCISCO   | 768,263           | 258.00                    | 33.58           | 29.48                 | 37.68        |

## **TABLE 16: REPORTED INCIDENCE OF PRIMARY AND SECONDARY SYPHILIS, 1995-1997**

California Counties Ranked By Three-Year Average Crude Case Rate

*The crude case rate of reported primary and secondary syphilis cases for California was 1.52 cases per 100,000 population or approximately one reported syphilis case for every 65,687 persons. This rate was based on a 1995 to 1997 three-year average reported number of cases of 493.00, and a population of 32,383,811 as of July 1, 1996.*

*Among counties with "reliable" rates, the crude case rate ranged from 7.06 in Fresno County to 1.37 in San Diego County, a difference in rates by a factor of 5.2 to 1.*

*Altogether 54 counties (3 with reliable case rates) and California as a whole met the revised Year 2000 National Objective of 4.00 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. (See additional Technical Notes in the Appendix, pages 59 through 66).

### **DATA SOURCES**

Department of Health Services: Division of Communicable Disease Control.

Department of Finance: 1996 Race/Ethnic Population by County with Age and Sex Detail, January 1998.

**TABLE 16**  
**REPORTED INCIDENCE OF PRIMARY AND SECONDARY SYPHILIS**  
**RANKED BY THREE-YEAR AVERAGE CRUDE CASE RATE**  
**CALIFORNIA COUNTIES, 1995-1997**

| RANK<br>ORDER | COUNTY                               | 1996<br>POPULATION | 1995-1997<br>CASES<br>(AVERAGE) | CRUDE<br>CASE RATE | 95% CONFIDENCE LIMITS |             |
|---------------|--------------------------------------|--------------------|---------------------------------|--------------------|-----------------------|-------------|
|               |                                      |                    |                                 |                    | LOWER                 | UPPER       |
| 1             | BUTTE                                | 196,522            | 0.00                            | 0.00 +             | -                     | -           |
| 2             | SHASTA                               | 161,688            | 0.00                            | 0.00 +             | -                     | -           |
| 3             | EL DORADO                            | 144,710            | 0.00                            | 0.00 +             | -                     | -           |
| 4             | IMPERIAL                             | 141,229            | 0.00                            | 0.00 +             | -                     | -           |
| 5             | NAPA                                 | 118,949            | 0.00                            | 0.00 +             | -                     | -           |
| 6             | NEVADA                               | 87,001             | 0.00                            | 0.00 +             | -                     | -           |
| 7             | MENDOCINO                            | 84,817             | 0.00                            | 0.00 +             | -                     | -           |
| 8             | SUTTER                               | 74,591             | 0.00                            | 0.00 +             | -                     | -           |
| 9             | YUBA                                 | 60,575             | 0.00                            | 0.00 +             | -                     | -           |
| 10            | LAKE                                 | 54,884             | 0.00                            | 0.00 +             | -                     | -           |
| 11            | TEHAMA                               | 54,353             | 0.00                            | 0.00 +             | -                     | -           |
| 12            | TUOLUMNE                             | 51,583             | 0.00                            | 0.00 +             | -                     | -           |
| 13            | SISKIYOU                             | 43,945             | 0.00                            | 0.00 +             | -                     | -           |
| 14            | CALAVERAS                            | 36,881             | 0.00                            | 0.00 +             | -                     | -           |
| 15            | AMADOR                               | 32,925             | 0.00                            | 0.00 +             | -                     | -           |
| 16            | LASSEN                               | 32,631             | 0.00                            | 0.00 +             | -                     | -           |
| 17            | DEL NORTE                            | 27,527             | 0.00                            | 0.00 +             | -                     | -           |
| 18            | PLUMAS                               | 20,239             | 0.00                            | 0.00 +             | -                     | -           |
| 19            | INYO                                 | 18,225             | 0.00                            | 0.00 +             | -                     | -           |
| 20            | COLUSA                               | 18,197             | 0.00                            | 0.00 +             | -                     | -           |
| 21            | MARIPOSA                             | 15,965             | 0.00                            | 0.00 +             | -                     | -           |
| 22            | TRINITY                              | 13,328             | 0.00                            | 0.00 +             | -                     | -           |
| 23            | MONO                                 | 10,565             | 0.00                            | 0.00 +             | -                     | -           |
| 24            | MODOC                                | 10,028             | 0.00                            | 0.00 +             | -                     | -           |
| 25            | SIERRA                               | 3,401              | 0.00                            | 0.00 +             | -                     | -           |
| 26            | ALPINE                               | 1,194              | 0.00                            | 0.00 +             | -                     | -           |
| 27            | SONOMA                               | 424,481            | 0.33                            | 0.08 *             | 0.00                  | 0.35        |
| 28            | MARIN                                | 239,630            | 0.33                            | 0.14 *             | 0.00                  | 0.61        |
| 29            | SAN LUIS OBISPO                      | 230,691            | 0.33                            | 0.14 *             | 0.00                  | 0.64        |
| 30            | PLACER                               | 209,167            | 0.33                            | 0.16 *             | 0.00                  | 0.70        |
| 31            | MERCED                               | 198,390            | 0.33                            | 0.17 *             | 0.00                  | 0.74        |
| 32            | SANTA BARBARA                        | 393,716            | 0.67                            | 0.17 *             | 0.00                  | 0.58        |
| 33            | SOLANO                               | 372,493            | 0.67                            | 0.18 *             | 0.00                  | 0.61        |
| 34            | SANTA CLARA                          | 1,638,352          | 3.33                            | 0.20 *             | 0.00                  | 0.42        |
| 35            | YOLO                                 | 152,535            | 0.33                            | 0.22 *             | 0.00                  | 0.96        |
| 36            | HUMBOLDT                             | 125,100            | 0.33                            | 0.27 *             | 0.00                  | 1.17        |
| 37            | VENTURA                              | 714,845            | 2.00                            | 0.28 *             | 0.00                  | 0.67        |
| 38            | CONTRA COSTA                         | 877,965            | 3.33                            | 0.38 *             | 0.00                  | 0.79        |
| 39            | SANTA CRUZ                           | 243,657            | 1.00                            | 0.41 *             | 0.00                  | 1.21        |
| 40            | SACRAMENTO                           | 1,132,189          | 5.00                            | 0.44 *             | 0.05                  | 0.83        |
| 41            | ORANGE                               | 2,649,846          | 13.67                           | 0.52 *             | 0.24                  | 0.79        |
| 42            | SAN MATEO                            | 698,042            | 4.00                            | 0.57 *             | 0.01                  | 1.13        |
| 43            | KINGS                                | 115,774            | 0.67                            | 0.58 *             | 0.00                  | 1.96        |
| 44            | RIVERSIDE                            | 1,393,289          | 9.00                            | 0.65 *             | 0.22                  | 1.07        |
| 45            | MONTEREY                             | 360,253            | 2.67                            | 0.74 *             | 0.00                  | 1.63        |
| 46            | SAN BENITO                           | 44,008             | 0.33                            | 0.76 *             | 0.00                  | 3.33        |
| 47            | ALAMEDA                              | 1,365,041          | 11.33                           | 0.83 *             | 0.35                  | 1.31        |
| 48            | TULARE                               | 353,645            | 3.00                            | 0.85 *             | 0.00                  | 1.81        |
| 49            | STANISLAUS                           | 418,455            | 3.67                            | 0.88 *             | 0.00                  | 1.77        |
| 50            | SAN BERNARDINO                       | 1,592,711          | 14.33                           | 0.90 *             | 0.43                  | 1.37        |
| 51            | GLENN                                | 26,699             | 0.33                            | 1.25 *             | 0.00                  | 5.49        |
| 52            | SAN DIEGO                            | 2,694,956          | 37.00                           | 1.37               | 0.93                  | 1.82        |
|               | <b>CALIFORNIA</b>                    | <b>32,383,811</b>  | <b>493.00</b>                   | <b>1.52</b>        | <b>1.39</b>           | <b>1.66</b> |
| 53            | LOS ANGELES                          | 9,396,389          | 221.67                          | 2.36               | 2.05                  | 2.67        |
| 54            | KERN                                 | 624,092            | 22.33                           | 3.58               | 2.09                  | 5.06        |
|               | <b>YEAR 2000 NATIONAL OBJECTIVE:</b> |                    |                                 | <b>4.00</b>        |                       |             |
| 55            | MADERA                               | 110,298            | 4.67                            | 4.23 *             | 0.39                  | 8.07        |
| 56            | SAN FRANCISCO                        | 768,263            | 40.00                           | 5.21               | 3.59                  | 6.82        |
| 57            | SAN JOAQUIN                          | 533,177            | 31.67                           | 5.94               | 3.87                  | 8.01        |
| 58            | FRESNO                               | 769,709            | 54.33                           | 7.06               | 5.18                  | 8.94        |



## **TABLE 17A: INFANT MORTALITY, ALL RACE/ETHNIC GROUPS, 1993-1995**

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

*The birth cohort infant death rate for California was 6.8 deaths per 1,000 live births, a risk of dying equivalent to approximately one infant death for every 148 births. This rate was based on the 3,841.0 infant deaths among 567,721.0 live births, the three-year average from 1993 to 1995.*

*Among counties with "reliable" rates, the birth cohort infant death rate ranged from 11.0 in Kern County to 4.2 in San Mateo County, a difference in rates by a factor of 2.6 to 1.*

*Altogether 33 counties (15 with reliable birth cohort infant death rates) and California as a whole met the Year 2000 National Objective of 7.0 infant deaths per 1,000 birth cohort live births.*

### **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, but in addition, 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 methodology used by the State Data Center, Department of Finance to compile the 1995 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. (See additional Technical Notes in the Appendix, pages 59 through 66).

### **DATA SOURCES**

Department of Health Services: Birth Cohort-Perinatal Outcome Files, 1993-1995.

**TABLE 17A**  
**INFANT MORTALITY, ALL RACE/ETHNIC GROUPS**  
**RANKED BY THREE-YEAR AVERAGE BIRTH COHORT INFANT DEATH RATE**  
**CALIFORNIA COUNTIES, 1993-1995**

| RANK<br>ORDER | COUNTY            | THREE-YEAR AVERAGE                   |                  | BIRTH COHORT<br>INFANT<br>DEATH RATE | 95% CONFIDENCE LIMITS |            |
|---------------|-------------------|--------------------------------------|------------------|--------------------------------------|-----------------------|------------|
|               |                   | LIVE<br>BIRTHS                       | INFANT<br>DEATHS |                                      | LOWER                 | UPPER      |
| 1             | SIERRA            | 20.7                                 | 0.0              | 0.0 +                                | -                     | -          |
| 2             | ALPINE            | 8.3                                  | 0.0              | 0.0 +                                | -                     | -          |
| 3             | MARIPOSA          | 170.7                                | 0.3              | 2.0 *                                | 0.0                   | 8.6        |
| 4             | MONO              | 133.7                                | 0.3              | 2.5 *                                | 0.0                   | 11.0       |
| 5             | GLENN             | 441.0                                | 1.7              | 3.8 *                                | 0.0                   | 9.5        |
| 6             | SAN MATEO         | 10,212.0                             | 43.3             | 4.2                                  | 3.0                   | 5.5        |
| 7             | SAN BENITO        | 780.7                                | 3.3              | 4.3 *                                | 0.0                   | 8.9        |
| 8             | MARIN             | 2,722.7                              | 12.3             | 4.5 *                                | 2.0                   | 7.1        |
| 9             | AMADOR            | 265.7                                | 1.3              | 5.0 *                                | 0.0                   | 13.5       |
| 10            | NEVADA            | 849.0                                | 4.3              | 5.1 *                                | 0.3                   | 9.9        |
| 11            | VENTURA           | 12,040.7                             | 61.7             | 5.1                                  | 3.8                   | 6.4        |
| 12            | SONOMA            | 5,521.3                              | 29.0             | 5.3                                  | 3.3                   | 7.2        |
| 13            | SISKIYOU          | 488.0                                | 2.7              | 5.5 *                                | 0.0                   | 12.0       |
| 14            | SANTA CLARA       | 26,534.0                             | 148.3            | 5.6                                  | 4.7                   | 6.5        |
| 15            | IMPERIAL          | 2,737.0                              | 15.3             | 5.6 *                                | 2.8                   | 8.4        |
| 16            | TUOLUMNE          | 476.0                                | 2.7              | 5.6 *                                | 0.0                   | 12.3       |
| 17            | EL DORADO         | 1,769.3                              | 10.0             | 5.7 *                                | 2.1                   | 9.2        |
| 18            | ORANGE            | 49,968.7                             | 288.3            | 5.8                                  | 5.1                   | 6.4        |
| 19            | SAN FRANCISCO     | 8,892.3                              | 52.0             | 5.8                                  | 4.3                   | 7.4        |
| 20            | CONTRA COSTA      | 12,526.0                             | 73.7             | 5.9                                  | 4.5                   | 7.2        |
| 21            | NAPA              | 1,510.0                              | 9.0              | 6.0 *                                | 2.1                   | 9.9        |
| 22            | SANTA CRUZ        | 3,680.7                              | 22.0             | 6.0                                  | 3.5                   | 8.5        |
| 23            | SAN DIEGO         | 47,470.7                             | 285.0            | 6.0                                  | 5.3                   | 6.7        |
| 24            | PLACER            | 2,731.7                              | 16.7             | 6.1 *                                | 3.2                   | 9.0        |
| 25            | ALAMEDA           | 21,418.3                             | 131.0            | 6.1                                  | 5.1                   | 7.2        |
| 26            | SANTA BARBARA     | 6,272.0                              | 39.0             | 6.2                                  | 4.3                   | 8.2        |
| 27            | MONTEREY          | 7,124.3                              | 44.3             | 6.2                                  | 4.4                   | 8.1        |
| 28            | TULARE            | 7,261.7                              | 46.0             | 6.3                                  | 4.5                   | 8.2        |
| 29            | SAN LUIS OBISPO   | 2,670.3                              | 17.0             | 6.4 *                                | 3.3                   | 9.4        |
| 30            | STANISLAUS        | 7,386.0                              | 49.3             | 6.7                                  | 4.8                   | 8.5        |
| 31            | SUTTER            | 1,185.0                              | 8.0              | 6.8 *                                | 2.1                   | 11.4       |
|               | <b>CALIFORNIA</b> | <b>567,721.0</b>                     | <b>3,841.0</b>   | <b>6.8</b>                           | <b>6.6</b>            | <b>7.0</b> |
| 32            | YOLO              | 2,252.0                              | 15.7             | 7.0 *                                | 3.5                   | 10.4       |
| 33            | LOS ANGELES       | 181,747.0                            | 1,271.0          | 7.0                                  | 6.6                   | 7.4        |
|               |                   | <b>YEAR 2000 NATIONAL OBJECTIVE:</b> |                  | <b>7.0</b>                           |                       |            |
| 34            | LAKE              | 655.0                                | 4.7              | 7.1 *                                | 0.7                   | 13.6       |
| 35            | SAN JOAQUIN       | 9,299.3                              | 66.7             | 7.2                                  | 5.4                   | 8.9        |
| 36            | SOLANO            | 5,948.7                              | 43.0             | 7.2                                  | 5.1                   | 9.4        |
| 37            | SHASTA            | 2,096.7                              | 15.3             | 7.3 *                                | 3.7                   | 11.0       |
| 38            | TEHAMA            | 762.3                                | 5.7              | 7.4 *                                | 1.3                   | 13.6       |
| 39            | MERCED            | 4,179.3                              | 31.7             | 7.6                                  | 4.9                   | 10.2       |
| 40            | YUBA              | 1,231.7                              | 9.3              | 7.6 *                                | 2.7                   | 12.4       |
| 41            | LASSEN            | 306.7                                | 2.3              | 7.6 *                                | 0.0                   | 17.4       |
| 42            | SACRAMENTO        | 18,854.3                             | 144.7            | 7.7                                  | 6.4                   | 8.9        |
| 43            | RIVERSIDE         | 24,749.0                             | 192.7            | 7.8                                  | 6.7                   | 8.9        |
| 44            | TRINITY           | 127.0                                | 1.0              | 7.9 *                                | 0.0                   | 23.3       |
| 45            | MADERA            | 1,977.0                              | 15.7             | 7.9 *                                | 4.0                   | 11.8       |
| 46            | SAN BERNARDINO    | 31,276.3                             | 249.3            | 8.0                                  | 7.0                   | 9.0        |
| 47            | MODOC             | 124.3                                | 1.0              | 8.0 *                                | 0.0                   | 23.8       |
| 48            | COLUSA            | 325.0                                | 2.7              | 8.2 *                                | 0.0                   | 18.1       |
| 49            | KINGS             | 2,226.7                              | 18.7             | 8.4 *                                | 4.6                   | 12.2       |
| 50            | FRESNO            | 15,581.3                             | 132.0            | 8.5                                  | 7.0                   | 9.9        |
| 51            | INYO              | 220.7                                | 2.0              | 9.1 *                                | 0.0                   | 21.6       |
| 52            | BUTTE             | 2,534.0                              | 23.0             | 9.1                                  | 5.4                   | 12.8       |
| 53            | MENDOCINO         | 1,128.0                              | 10.7             | 9.5 *                                | 3.8                   | 15.1       |
| 54            | HUMBOLDT          | 1,593.3                              | 16.3             | 10.3 *                               | 5.3                   | 15.2       |
| 55            | PLUMAS            | 187.7                                | 2.0              | 10.7 *                               | 0.0                   | 25.4       |
| 56            | KERN              | 12,361.7                             | 136.3            | 11.0                                 | 9.2                   | 12.9       |
| 57            | DEL NORTE         | 334.7                                | 4.3              | 12.9 *                               | 0.8                   | 25.1       |
| 58            | CALAVERAS         | 373.0                                | 5.3              | 14.3 *                               | 2.2                   | 26.4       |

## **TABLE 17B: ASIAN/OTHER INFANT MORTALITY, 1993-1995**

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

*The Asian/Other birth cohort infant death rate for California was 5.6 deaths per 1,000 live births, a risk of dying equivalent to approximately one infant death for every 180 births. This rate was based on the 335.3 infant deaths among 60,226.3 live births, the three-year average from 1993 to 1995.*

*Among counties with "reliable" rates, the birth cohort infant death rate ranged from 6.1 in Orange County to 4.6 in Alameda County, a difference in rates by a factor of 1.3 to 1.*

*A Year 2000 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, but in addition, 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 methodology used by the State Data Center, Department of Finance to compile the 1995 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. (See additional Technical Notes in the Appendix, pages 59 through 66).

### **DATA SOURCES**

Department of Health Services: Birth Cohort-Perinatal Outcome Files, 1993-1995.

**TABLE 17B**  
**ASIAN/OTHER INFANT MORTALITY**  
**RANKED BY THREE-YEAR AVERAGE BIRTH COHORT INFANT DEATH RATE**  
**CALIFORNIA COUNTIES, 1993-1995**

| RANK ORDER  | COUNTY            | THREE-YEAR AVERAGE |               | BIRTH COHORT INFANT DEATH RATE | 95% CONFIDENCE LIMITS |            |
|---|-------------------|--------------------|---------------|--------------------------------|-----------------------|------------|
|   |                   | LIVE BIRTHS        | INFANT DEATHS |                                | LOWER                 | UPPER      |
| <b>YEAR 2000 NATIONAL OBJECTIVE: NONE ESTABLISHED</b> |                   |                    |               |                                |                       |            |
| 1   | PLACER            | 100.7              | 0.0           | 0.0 +                          | -                     | -          |
| 2   | GLENN             | 46.0               | 0.0           | 0.0 +                          | -                     | -          |
| 3   | SISKIYOU          | 23.0               | 0.0           | 0.0 +                          | -                     | -          |
| 4   | TEHAMA            | 21.7               | 0.0           | 0.0 +                          | -                     | -          |
| 5   | SAN BENITO        | 16.0               | 0.0           | 0.0 +                          | -                     | -          |
| 6   | NEVADA            | 12.7               | 0.0           | 0.0 +                          | -                     | -          |
| 7   | PLUMAS            | 9.3                | 0.0           | 0.0 +                          | -                     | -          |
| 8   | COLUSA            | 9.0                | 0.0           | 0.0 +                          | -                     | -          |
| 9   | MARIPOSA          | 7.7                | 0.0           | 0.0 +                          | -                     | -          |
| 10  | AMADOR            | 7.7                | 0.0           | 0.0 +                          | -                     | -          |
| 11  | TRINITY           | 7.3                | 0.0           | 0.0 +                          | -                     | -          |
| 12  | ALPINE            | 5.3                | 0.0           | 0.0 +                          | -                     | -          |
| 13  | MONO              | 5.3                | 0.0           | 0.0 +                          | -                     | -          |
| 14  | MODOC             | 5.0                | 0.0           | 0.0 +                          | -                     | -          |
| 15  | SIERRA            | 0.3                | 0.0           | 0.0 +                          | -                     | -          |
| 16  | YOLO              | 191.7              | 0.3           | 1.7 *                          | 0.0                   | 7.6        |
| 17  | VENTURA           | 635.3              | 1.7           | 2.6 *                          | 0.0                   | 6.6        |
| 18  | SANTA CRUZ        | 113.7              | 0.3           | 2.9 *                          | 0.0                   | 12.9       |
| 19  | MARIN             | 182.0              | 0.7           | 3.7 *                          | 0.0                   | 12.5       |
| 20  | SUTTER            | 168.0              | 0.7           | 4.0 *                          | 0.0                   | 13.5       |
| 21  | MONTEREY          | 387.0              | 1.7           | 4.3 *                          | 0.0                   | 10.8       |
| 22  | SAN MATEO         | 2,207.0            | 9.7           | 4.4 *                          | 1.6                   | 7.1        |
| 23  | SAN FRANCISCO     | 3,124.0            | 14.3          | 4.6 *                          | 2.2                   | 7.0        |
| 24  | ALAMEDA           | 4,277.7            | 19.7          | 4.6                            | 2.6                   | 6.6        |
| 25  | CONTRA COSTA      | 1,467.7            | 7.0           | 4.8 *                          | 1.2                   | 8.3        |
| 26  | SAN DIEGO         | 4,602.7            | 22.3          | 4.9                            | 2.8                   | 6.9        |
| 27  | KERN              | 461.0              | 2.3           | 5.1 *                          | 0.0                   | 11.6       |
| 28  | SONOMA            | 262.7              | 1.3           | 5.1 *                          | 0.0                   | 13.7       |
| 29  | SAN JOAQUIN       | 1,506.0            | 7.7           | 5.1 *                          | 1.5                   | 8.7        |
| 30  | SANTA CLARA       | 6,274.7            | 34.3          | 5.5                            | 3.6                   | 7.3        |
| 31  | LOS ANGELES       | 16,650.7           | 91.7          | 5.5                            | 4.4                   | 6.6        |
| 32  | SAN BERNARDINO    | 1,633.7            | 9.0           | 5.5 *                          | 1.9                   | 9.1        |
|   | <b>CALIFORNIA</b> | <b>60,226.3</b>    | <b>335.3</b>  | <b>5.6</b>                     | <b>5.0</b>            | <b>6.2</b> |
| 33  | SACRAMENTO        | 2,659.0            | 16.0          | 6.0 *                          | 3.1                   | 9.0        |
| 34  | ORANGE            | 5,726.0            | 34.7          | 6.1                            | 4.0                   | 8.1        |
| 35  | STANISLAUS        | 511.0              | 3.3           | 6.5 *                          | 0.0                   | 13.5       |
| 36  | RIVERSIDE         | 1,221.7            | 8.0           | 6.5 *                          | 2.0                   | 11.1       |
| 37  | BUTTE             | 251.0              | 1.7           | 6.6 *                          | 0.0                   | 16.7       |
| 38  | MADERA            | 50.0               | 0.3           | 6.7 *                          | 0.0                   | 29.3       |
| 39  | SANTA BARBARA     | 300.0              | 2.0           | 6.7 *                          | 0.0                   | 15.9       |
| 40  | SHASTA            | 149.0              | 1.0           | 6.7 *                          | 0.0                   | 19.9       |
| 41  | YUBA              | 233.3              | 1.7           | 7.1 *                          | 0.0                   | 18.0       |
| 42  | MERCED            | 554.7              | 4.0           | 7.2 *                          | 0.1                   | 14.3       |
| 43  | SAN LUIS OBISPO   | 84.3               | 0.7           | 7.9 *                          | 0.0                   | 26.9       |
| 44  | SOLANO            | 875.3              | 7.0           | 8.0 *                          | 2.1                   | 13.9       |
| 45  | FRESNO            | 2,155.7            | 18.0          | 8.4 *                          | 4.5                   | 12.2       |
| 46  | TULARE            | 318.0              | 2.7           | 8.4 *                          | 0.0                   | 18.5       |
| 47  | EL DORADO         | 77.7               | 0.7           | 8.6 *                          | 0.0                   | 29.2       |
| 48  | KINGS             | 108.7              | 1.0           | 9.2 *                          | 0.0                   | 27.2       |
| 49  | INYO              | 35.7               | 0.3           | 9.3 *                          | 0.0                   | 41.1       |
| 50  | MENDOCINO         | 90.0               | 1.0           | 11.1 *                         | 0.0                   | 32.9       |
| 51  | IMPERIAL          | 28.3               | 0.3           | 11.8 *                         | 0.0                   | 51.7       |
| 52  | NAPA              | 53.0               | 0.7           | 12.6 *                         | 0.0                   | 42.8       |
| 53  | DEL NORTE         | 53.0               | 0.7           | 12.6 *                         | 0.0                   | 42.8       |
| 54  | HUMBOLDT          | 192.7              | 3.0           | 15.6 *                         | 0.0                   | 33.2       |
| 55  | LASSEN            | 16.3               | 0.3           | 20.4 *                         | 0.0                   | 89.7       |
| 56  | CALAVERAS         | 14.7               | 0.3           | 22.7 *                         | 0.0                   | 99.9       |
| 57  | TUOLUMNE          | 14.0               | 0.3           | 23.8 *                         | 0.0                   | 104.6      |
| 58  | LAKE              | 31.0               | 1.0           | 32.3 *                         | 0.0                   | 95.5       |

## **TABLE 17C: BLACK INFANT MORTALITY, 1993-1995**

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

*The Black birth cohort infant death rate for California was 14.6 deaths per 1,000 live births, a risk of dying equivalent to approximately one infant death for every 69 births. This rate was based on the 606.0 deaths among the 41,535.7 live births, the three-year average from 1993 to 1995.*

*Among counties with "reliable" rates, the birth cohort infant death rate for Blacks ranged from 24.2 in Kern County to 11.8 in Alameda County, a difference in rates by a factor of 2.1 to 1.*

*Altogether 38 counties (none with a reliable birth cohort infant death rate), but not California, met the Year 2000 National Objective of 11.0 infant deaths per 1,000 birth cohort live births.*

### **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, but in addition, 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 methodology used by the State Data Center, Department of Finance to compile the 1995 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. (See additional Technical Notes in the Appendix, pages 59 through 66).

### **DATA SOURCES**

Department of Health Services: Birth Cohort-Perinatal Outcome Files, 1993-1995.

**TABLE 17C**  
**BLACK INFANT MORTALITY**  
**RANKED BY THREE-YEAR AVERAGE BIRTH COHORT INFANT DEATH RATE**  
**CALIFORNIA COUNTIES, 1993-1995**

| RANK ORDER                           | COUNTY          | THREE-YEAR AVERAGE |               | BIRTH COHORT INFANT DEATH RATE | 95% CONFIDENCE LIMITS |             |
|--------------------------------------|-----------------|--------------------|---------------|--------------------------------|-----------------------|-------------|
|                                      |                 | LIVE BIRTHS        | INFANT DEATHS |                                | LOWER                 | UPPER       |
| 1                                    | BUTTE           | 49.7               | 0.0           | 0.0 +                          | -                     | -           |
| 2                                    | SANTA CRUZ      | 26.0               | 0.0           | 0.0 +                          | -                     | -           |
| 3                                    | SUTTER          | 18.3               | 0.0           | 0.0 +                          | -                     | -           |
| 4                                    | HUMBOLDT        | 17.0               | 0.0           | 0.0 +                          | -                     | -           |
| 5                                    | LAKE            | 15.3               | 0.0           | 0.0 +                          | -                     | -           |
| 6                                    | NAPA            | 14.0               | 0.0           | 0.0 +                          | -                     | -           |
| 7                                    | EL DORADO       | 7.0                | 0.0           | 0.0 +                          | -                     | -           |
| 8                                    | LASSEN          | 5.0                | 0.0           | 0.0 +                          | -                     | -           |
| 9                                    | SISKIYOU        | 4.3                | 0.0           | 0.0 +                          | -                     | -           |
| 10                                   | MENDOCINO       | 3.3                | 0.0           | 0.0 +                          | -                     | -           |
| 11                                   | SAN BENITO      | 2.7                | 0.0           | 0.0 +                          | -                     | -           |
| 12                                   | MARIPOSA        | 2.3                | 0.0           | 0.0 +                          | -                     | -           |
| 13                                   | CALAVERAS       | 2.3                | 0.0           | 0.0 +                          | -                     | -           |
| 14                                   | TUOLUMNE        | 2.0                | 0.0           | 0.0 +                          | -                     | -           |
| 15                                   | PLUMAS          | 1.7                | 0.0           | 0.0 +                          | -                     | -           |
| 16                                   | DEL NORTE       | 1.7                | 0.0           | 0.0 +                          | -                     | -           |
| 17                                   | NEVADA          | 1.0                | 0.0           | 0.0 +                          | -                     | -           |
| 18                                   | TRINITY         | 1.0                | 0.0           | 0.0 +                          | -                     | -           |
| 19                                   | COLUSA          | 1.0                | 0.0           | 0.0 +                          | -                     | -           |
| 20                                   | INYO            | 1.0                | 0.0           | 0.0 +                          | -                     | -           |
| 21                                   | GLENN           | 0.7                | 0.0           | 0.0 +                          | -                     | -           |
| 22                                   | AMADOR          | 0.7                | 0.0           | 0.0 +                          | -                     | -           |
| 23                                   | MODOC           | 0.3                | 0.0           | 0.0 +                          | -                     | -           |
| 24                                   | SIERRA          | 0.0                | 0.0           | 0.0 +                          | -                     | -           |
| 25                                   | ALPINE          | 0.0                | 0.0           | 0.0 +                          | -                     | -           |
| 26                                   | MONO            | 0.0                | 0.0           | 0.0 +                          | -                     | -           |
| 27                                   | MARIN           | 82.7               | 0.3           | 4.0 *                          | 0.0                   | 17.7        |
| 28                                   | MONTEREY        | 209.3              | 1.3           | 6.4 *                          | 0.0                   | 17.2        |
| 29                                   | SONOMA          | 100.0              | 0.7           | 6.7 *                          | 0.0                   | 22.7        |
| 30                                   | MADERA          | 46.3               | 0.3           | 7.2 *                          | 0.0                   | 31.6        |
| 31                                   | SANTA BARBARA   | 136.0              | 1.0           | 7.4 *                          | 0.0                   | 21.8        |
| 32                                   | YOLO            | 45.0               | 0.3           | 7.4 *                          | 0.0                   | 32.6        |
| 33                                   | YUBA            | 43.3               | 0.3           | 7.7 *                          | 0.0                   | 33.8        |
| 34                                   | IMPERIAL        | 34.3               | 0.3           | 9.7 *                          | 0.0                   | 42.7        |
| 35                                   | MERCED          | 171.3              | 1.7           | 9.7 *                          | 0.0                   | 24.5        |
| 36                                   | SAN JOAQUIN     | 643.0              | 6.3           | 9.8 *                          | 2.2                   | 17.5        |
| 37                                   | SOLANO          | 884.0              | 9.0           | 10.2 *                         | 3.5                   | 16.8        |
| 38                                   | ORANGE          | 820.7              | 8.7           | 10.6 *                         | 3.5                   | 17.6        |
| <b>YEAR 2000 NATIONAL OBJECTIVE:</b> |                 |                    |               | <b>11.0</b>                    |                       |             |
| 39                                   | STANISLAUS      | 146.7              | 1.7           | 11.4 *                         | 0.0                   | 28.6        |
| 40                                   | SANTA CLARA     | 900.7              | 10.3          | 11.5 *                         | 4.5                   | 18.5        |
| 41                                   | ALAMEDA         | 4,253.3            | 50.0          | 11.8                           | 8.5                   | 15.0        |
| 42                                   | SAN MATEO       | 451.0              | 5.3           | 11.8 *                         | 1.8                   | 21.9        |
| 43                                   | SAN DIEGO       | 3,439.0            | 45.7          | 13.3                           | 9.4                   | 17.1        |
| 44                                   | SAN FRANCISCO   | 1,127.0            | 15.0          | 13.3 *                         | 6.6                   | 20.0        |
| 45                                   | CONTRA COSTA    | 1,495.3            | 20.0          | 13.4                           | 7.5                   | 19.2        |
| <b>CALIFORNIA</b>                    |                 | <b>41,535.7</b>    | <b>606.0</b>  | <b>14.6</b>                    | <b>13.4</b>           | <b>15.8</b> |
| 46                                   | TULARE          | 110.3              | 1.7           | 15.1 *                         | 0.0                   | 38.0        |
| 47                                   | SACRAMENTO      | 2,345.3            | 35.7          | 15.2                           | 10.2                  | 20.2        |
| 48                                   | LOS ANGELES     | 17,398.3           | 270.7         | 15.6                           | 13.7                  | 17.4        |
| 49                                   | RIVERSIDE       | 1,456.7            | 24.3          | 16.7                           | 10.1                  | 23.3        |
| 50                                   | SAN BERNARDINO  | 2,905.0            | 50.3          | 17.3                           | 12.5                  | 22.1        |
| 51                                   | KINGS           | 112.3              | 2.0           | 17.8 *                         | 0.0                   | 42.5        |
| 52                                   | VENTURA         | 221.3              | 4.0           | 18.1 *                         | 0.4                   | 35.8        |
| 53                                   | FRESNO          | 924.0              | 18.0          | 19.5 *                         | 10.5                  | 28.5        |
| 54                                   | SHASTA          | 16.7               | 0.3           | 20.0 *                         | 0.0                   | 87.9        |
| 55                                   | SAN LUIS OBISPO | 31.0               | 0.7           | 21.5 *                         | 0.0                   | 73.1        |
| 56                                   | KERN            | 786.3              | 19.0          | 24.2                           | 13.3                  | 35.0        |
| 57                                   | PLACER          | 17.7               | 0.7           | 37.7 *                         | 0.0                   | 128.3       |
| 58                                   | TEHAMA          | 3.3                | 0.3           | 100.0 *                        | 0.0                   | 439.5       |

## **TABLE 17D: HISPANIC INFANT MORTALITY, 1993-1995**

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

*The Hispanic birth cohort infant death rate for California was 6.3 deaths per 1,000 live births, a risk of dying equivalent to approximately one infant death for every 159 births. This rate was based on the 1,617.7 deaths among 257,806.7 live births, the three-year average from 1993 to 1995.*

*Among counties with "reliable" rates, the birth cohort infant death rate ranged from 10.0 in Kern County to 4.8 in Ventura County, a difference in rates by a factor of more than 2.1 to 1.*

*A Year 2000 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, but in addition, 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 methodology used by the State Data Center, Department of Finance to compile the 1995 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. (See additional Technical Notes in the Appendix, pages 59 through 66).

### **DATA SOURCES**

Department of Health Services: Birth Cohort-Perinatal Outcome Files, 1993-1995.

**TABLE 17D**  
**HISPANIC INFANT MORTALITY**  
**RANKED BY THREE-YEAR AVERAGE BIRTH COHORT INFANT DEATH RATE**  
**CALIFORNIA COUNTIES, 1993-1995**

| RANK ORDER  | COUNTY            | THREE-YEAR AVERAGE |                | BIRTH COHORT INFANT DEATH RATE | 95% CONFIDENCE LIMITS |            |
|---|-------------------|--------------------|----------------|--------------------------------|-----------------------|------------|
|   |                   | LIVE BIRTHS        | INFANT DEATHS  |                                | LOWER                 | UPPER      |
| <b>YEAR 2000 NATIONAL OBJECTIVE: NONE ESTABLISHED</b> |                   |                    |                |                                |                       |            |
| 1   | SISKIYOU          | 80.0               | 0.0            | 0.0 +                          | -                     | -          |
| 2   | MONO              | 44.7               | 0.0            | 0.0 +                          | -                     | -          |
| 3   | LASSEN            | 40.0               | 0.0            | 0.0 +                          | -                     | -          |
| 4   | CALAVERAS         | 29.7               | 0.0            | 0.0 +                          | -                     | -          |
| 5   | AMADOR            | 23.7               | 0.0            | 0.0 +                          | -                     | -          |
| 6   | MARIPOSA          | 13.0               | 0.0            | 0.0 +                          | -                     | -          |
| 7   | TRINITY           | 4.0                | 0.0            | 0.0 +                          | -                     | -          |
| 8   | SIERRA            | 1.3                | 0.0            | 0.0 +                          | -                     | -          |
| 9   | ALPINE            | 0.0                | 0.0            | 0.0 +                          | -                     | -          |
| 10  | GLENN             | 165.3              | 0.3            | 2.0 *                          | 0.0                   | 8.9        |
| 11  | SAN MATEO         | 3,222.7            | 10.3           | 3.2 *                          | 1.3                   | 5.2        |
| 12  | LAKE              | 99.7               | 0.3            | 3.3 *                          | 0.0                   | 14.7       |
| 13  | MENDOCINO         | 298.0              | 1.0            | 3.4 *                          | 0.0                   | 9.9        |
| 14  | SHASTA            | 151.7              | 0.7            | 4.4 *                          | 0.0                   | 14.9       |
| 15  | SONOMA            | 1,414.7            | 6.3            | 4.5 *                          | 1.0                   | 8.0        |
| 16  | BUTTE             | 369.0              | 1.7            | 4.5 *                          | 0.0                   | 11.4       |
| 17  | IMPERIAL          | 2,308.3            | 11.0           | 4.8 *                          | 1.9                   | 7.6        |
| 18  | VENTURA           | 5,447.7            | 26.3           | 4.8                            | 3.0                   | 6.7        |
| 19  | ALAMEDA           | 4,925.7            | 24.0           | 4.9                            | 2.9                   | 6.8        |
| 20  | NAPA              | 560.0              | 3.0            | 5.4 *                          | 0.0                   | 11.4       |
| 21  | CONTRA COSTA      | 2,662.7            | 15.0           | 5.6 *                          | 2.8                   | 8.5        |
| 22  | INYO              | 59.0               | 0.3            | 5.6 *                          | 0.0                   | 24.8       |
| 23  | SAN FRANCISCO     | 2,004.0            | 11.3           | 5.7 *                          | 2.4                   | 8.9        |
| 24  | SAN DIEGO         | 18,576.0           | 105.3          | 5.7                            | 4.6                   | 6.8        |
| 25  | SAN BENITO        | 470.0              | 2.7            | 5.7 *                          | 0.0                   | 12.5       |
| 26  | EL DORADO         | 293.3              | 1.7            | 5.7 *                          | 0.0                   | 14.3       |
| 27  | SOLANO            | 1,162.7            | 6.7            | 5.7 *                          | 1.4                   | 10.1       |
| 28  | SANTA BARBARA     | 3,384.0            | 20.0           | 5.9                            | 3.3                   | 8.5        |
| 29  | ORANGE            | 23,247.3           | 139.0          | 6.0                            | 5.0                   | 7.0        |
| 30  | SANTA CLARA       | 9,152.7            | 55.7           | 6.1                            | 4.5                   | 7.7        |
| 31  | LOS ANGELES       | 110,019.7          | 684.3          | 6.2                            | 5.8                   | 6.7        |
| 32  | TEHAMA            | 213.3              | 1.3            | 6.2 *                          | 0.0                   | 16.9       |
| 33  | TULARE            | 4,494.7            | 28.3           | 6.3                            | 4.0                   | 8.6        |
|   | <b>CALIFORNIA</b> | <b>257,806.7</b>   | <b>1,617.7</b> | <b>6.3</b>                     | <b>6.0</b>            | <b>6.6</b> |
| 34  | STANISLAUS        | 2,902.0            | 18.7           | 6.4 *                          | 3.5                   | 9.4        |
| 35  | MARIN             | 506.7              | 3.3            | 6.6 *                          | 0.0                   | 13.6       |
| 36  | MONTEREY          | 4,345.0            | 28.7           | 6.6                            | 4.2                   | 9.0        |
| 37  | SANTA CRUZ        | 1,764.0            | 11.7           | 6.6 *                          | 2.8                   | 10.4       |
| 38  | YUBA              | 200.0              | 1.3            | 6.7 *                          | 0.0                   | 18.0       |
| 39  | SAN BERNARDINO    | 13,763.3           | 93.3           | 6.8                            | 5.4                   | 8.2        |
| 40  | SAN JOAQUIN       | 3,311.3            | 22.7           | 6.8                            | 4.0                   | 9.7        |
| 41  | SACRAMENTO        | 3,486.7            | 24.0           | 6.9                            | 4.1                   | 9.6        |
| 42  | RIVERSIDE         | 11,636.7           | 80.7           | 6.9                            | 5.4                   | 8.4        |
| 43  | COLUSA            | 189.7              | 1.3            | 7.0 *                          | 0.0                   | 19.0       |
| 44  | DEL NORTE         | 47.0               | 0.3            | 7.1 *                          | 0.0                   | 31.2       |
| 45  | TUOLUMNE          | 47.0               | 0.3            | 7.1 *                          | 0.0                   | 31.2       |
| 46  | MERCED            | 2,019.0            | 14.3           | 7.1 *                          | 3.4                   | 10.8       |
| 47  | KINGS             | 1,100.3            | 8.0            | 7.3 *                          | 2.2                   | 12.3       |
| 48  | SAN LUIS OBISPO   | 692.7              | 5.3            | 7.7 *                          | 1.2                   | 14.2       |
| 49  | FRESNO            | 8,047.3            | 62.3           | 7.7                            | 5.8                   | 9.7        |
| 50  | YOLO              | 805.0              | 6.3            | 7.9 *                          | 1.7                   | 14.0       |
| 51  | HUMBOLDT          | 123.3              | 1.0            | 8.1 *                          | 0.0                   | 24.0       |
| 52  | NEVADA            | 80.7               | 0.7            | 8.3 *                          | 0.0                   | 28.1       |
| 53  | SUTTER            | 337.7              | 3.0            | 8.9 *                          | 0.0                   | 18.9       |
| 54  | PLACER            | 372.3              | 3.3            | 9.0 *                          | 0.0                   | 18.6       |
| 55  | MADERA            | 1,211.0            | 11.3           | 9.4 *                          | 3.9                   | 14.8       |
| 56  | KERN              | 5,833.0            | 58.3           | 10.0                           | 7.4                   | 12.6       |
| 57  | MODOC             | 28.3               | 0.3            | 11.8 *                         | 0.0                   | 51.7       |
| 58  | PLUMAS            | 18.3               | 0.3            | 18.2 *                         | 0.0                   | 79.9       |



## **TABLE 17E: WHITE INFANT MORTALITY, 1993-1995**

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

*The White birth cohort infant death rate for California was 6.2 deaths per 1,000 live births, a risk of dying equivalent to approximately one infant death for every 162 births. This rate was based on the 1,282.0 deaths among 208,152.3 live births, the three-year average from 1993 to 1995.*

*Among counties with "reliable" rates, the birth cohort infant death rate ranged from 10.7 in Kern County to 4.6 in Contra Costa County, a difference in rates by a factor of 2.3 to 1.*

*A Year 2000 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 methodology used by the State Data Center, Department of Finance to compile the 1995 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. (See additional Technical Notes in the Appendix, pages 59 through 66).

### **DATA SOURCES**

Department of Health Services: Birth Cohort-Perinatal Outcome Files, 1993-1995.

**TABLE 17E  
WHITE INFANT MORTALITY  
RANKED BY THREE-YEAR AVERAGE BIRTH COHORT INFANT DEATH RATE  
CALIFORNIA COUNTIES, 1993-1995**

| RANK ORDER  | COUNTY            | THREE-YEAR AVERAGE |                | BIRTH COHORT INFANT DEATH RATE | 95% CONFIDENCE LIMITS |            |
|---|-------------------|--------------------|----------------|--------------------------------|-----------------------|------------|
|   |                   | LIVE BIRTHS        | INFANT DEATHS  |                                | LOWER                 | UPPER      |
| <b>YEAR 2000 NATIONAL OBJECTIVE: NONE ESTABLISHED</b> |                   |                    |                |                                |                       |            |
| 1   | SIERRA            | 19.0               | 0.0            | 0.0 +                          | -                     | -          |
| 2   | ALPINE            | 3.0                | 0.0            | 0.0 +                          | -                     | -          |
| 3   | MARIPOSA          | 147.7              | 0.3            | 2.3 *                          | 0.0                   | 9.9        |
| 4   | SAN BENITO        | 292.0              | 0.7            | 2.3 *                          | 0.0                   | 7.8        |
| 5   | MONO              | 83.7               | 0.3            | 4.0 *                          | 0.0                   | 17.5       |
| 6   | MARIN             | 1,951.3            | 8.0            | 4.1 *                          | 1.3                   | 6.9        |
| 7   | SAN MATEO         | 4,331.3            | 18.0           | 4.2 *                          | 2.2                   | 6.1        |
| 8   | SAN FRANCISCO     | 2,637.3            | 11.3           | 4.3 *                          | 1.8                   | 6.8        |
| 9   | CONTRA COSTA      | 6,900.3            | 31.7           | 4.6                            | 3.0                   | 6.2        |
| 10  | ALAMEDA           | 7,961.7            | 37.3           | 4.7                            | 3.2                   | 6.2        |
| 11  | SANTA CLARA       | 10,206.0           | 48.0           | 4.7                            | 3.4                   | 6.0        |
| 12  | TUOLUMNE          | 413.0              | 2.0            | 4.8 *                          | 0.0                   | 11.6       |
| 13  | NEVADA            | 754.7              | 3.7            | 4.9 *                          | 0.0                   | 9.8        |
| 14  | VENTURA           | 5,736.3            | 29.7           | 5.2                            | 3.3                   | 7.0        |
| 15  | ORANGE            | 20,174.7           | 106.0          | 5.3                            | 4.3                   | 6.3        |
| 16  | SAN DIEGO         | 20,853.0           | 111.7          | 5.4                            | 4.4                   | 6.3        |
| 17  | MADERA            | 669.7              | 3.7            | 5.5 *                          | 0.0                   | 11.1       |
| 18  | EL DORADO         | 1,391.3            | 7.7            | 5.5 *                          | 1.6                   | 9.4        |
| 19  | SONOMA            | 3,744.0            | 20.7           | 5.5                            | 3.1                   | 7.9        |
| 20  | SAN LUIS OBISPO   | 1,862.3            | 10.3           | 5.5 *                          | 2.2                   | 8.9        |
| 21  | SANTA CRUZ        | 1,777.0            | 10.0           | 5.6 *                          | 2.1                   | 9.1        |
| 22  | PLACER            | 2,241.0            | 12.7           | 5.7 *                          | 2.5                   | 8.8        |
| 23  | TULARE            | 2,338.7            | 13.3           | 5.7 *                          | 2.6                   | 8.8        |
| 24  | AMADOR            | 233.7              | 1.3            | 5.7 *                          | 0.0                   | 15.4       |
| 25  | MONTEREY          | 2,183.0            | 12.7           | 5.8 *                          | 2.6                   | 9.0        |
| 26  | GLENN             | 229.0              | 1.3            | 5.8 *                          | 0.0                   | 15.7       |
| 27  | LOS ANGELES       | 37,678.3           | 224.3          | 6.0                            | 5.2                   | 6.7        |
| 28  | NAPA              | 883.0              | 5.3            | 6.0 *                          | 0.9                   | 11.2       |
|   | <b>CALIFORNIA</b> | <b>208,152.3</b>   | <b>1,282.0</b> | <b>6.2</b>                     | <b>5.8</b>            | <b>6.5</b> |
| 29  | SANTA BARBARA     | 2,452.0            | 16.0           | 6.5 *                          | 3.3                   | 9.7        |
| 30  | LAKE              | 509.0              | 3.3            | 6.5 *                          | 0.0                   | 13.6       |
| 31  | SUTTER            | 661.0              | 4.3            | 6.6 *                          | 0.4                   | 12.7       |
| 32  | SACRAMENTO        | 10,363.3           | 69.0           | 6.7                            | 5.1                   | 8.2        |
| 33  | STANISLAUS        | 3,826.3            | 25.7           | 6.7                            | 4.1                   | 9.3        |
| 34  | SOLANO            | 3,026.7            | 20.3           | 6.7                            | 3.8                   | 9.6        |
| 35  | SISKIYOU          | 380.7              | 2.7            | 7.0 *                          | 0.0                   | 15.4       |
| 36  | YOLO              | 1,210.3            | 8.7            | 7.2 *                          | 2.4                   | 11.9       |
| 37  | MODOC             | 90.7               | 0.7            | 7.4 *                          | 0.0                   | 25.0       |
| 38  | SAN BERNARDINO    | 12,974.3           | 96.7           | 7.5                            | 6.0                   | 8.9        |
| 39  | SHASTA            | 1,779.3            | 13.3           | 7.5 *                          | 3.5                   | 11.5       |
| 40  | FRESNO            | 4,454.3            | 33.7           | 7.6                            | 5.0                   | 10.1       |
| 41  | TEHAMA            | 524.0              | 4.0            | 7.6 *                          | 0.2                   | 15.1       |
| 42  | RIVERSIDE         | 10,434.0           | 79.7           | 7.6                            | 6.0                   | 9.3        |
| 43  | SAN JOAQUIN       | 3,839.0            | 30.0           | 7.8                            | 5.0                   | 10.6       |
| 44  | YUBA              | 755.0              | 6.0            | 7.9 *                          | 1.6                   | 14.3       |
| 45  | MERCED            | 1,434.3            | 11.7           | 8.1 *                          | 3.5                   | 12.8       |
| 46  | LASSEN            | 245.3              | 2.0            | 8.2 *                          | 0.0                   | 19.5       |
| 47  | KINGS             | 905.3              | 7.7            | 8.5 *                          | 2.5                   | 14.5       |
| 48  | TRINITY           | 114.7              | 1.0            | 8.7 *                          | 0.0                   | 25.8       |
| 49  | HUMBOLDT          | 1,260.3            | 12.3           | 9.8 *                          | 4.3                   | 15.2       |
| 50  | IMPERIAL          | 366.0              | 3.7            | 10.0 *                         | 0.0                   | 20.3       |
| 51  | PLUMAS            | 158.3              | 1.7            | 10.5 *                         | 0.0                   | 26.5       |
| 52  | BUTTE             | 1,864.3            | 19.7           | 10.5                           | 5.9                   | 15.2       |
| 53  | COLUSA            | 125.3              | 1.3            | 10.6 *                         | 0.0                   | 28.7       |
| 54  | INYO              | 125.0              | 1.3            | 10.7 *                         | 0.0                   | 28.8       |
| 55  | KERN              | 5,281.3            | 56.7           | 10.7                           | 7.9                   | 13.5       |
| 56  | MENDOCINO         | 736.7              | 8.7            | 11.8 *                         | 3.9                   | 19.6       |
| 57  | DEL NORTE         | 233.0              | 3.3            | 14.3 *                         | 0.0                   | 29.7       |
| 58  | CALAVERAS         | 326.3              | 5.0            | 15.3 *                         | 1.9                   | 28.8       |

## **TABLE 18: LOW BIRTHWEIGHT INFANTS, 1995-1997**

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

*The relative number of low birthweight infants for California was 6.1 per 100 live births. This percentage was based on a three-year average number of low birthweight infants of 32,823.0 and a three-year average total number of live births of 537,975.7 from 1995 to 1997.*

*Among counties with "reliable" percentages, the percent of low birthweight infants ranged from 6.9 in Alameda County to 4.2 in Napa County, a difference in percentage by a factor of 1.6 to 1.*

*Altogether 13 counties (7 with reliable percentages), but not California, met the Year 2000 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 100 independent sets of data similar to the present set. (See additional Technical Notes in the Appendix, pages 59 through 66).

### **DATA SOURCES**

Department of Health Services: Birth Statistical Master Files, 1995-1997.

**TABLE 18**  
**LOW BIRTHWEIGHT INFANTS**  
**RANKED BY THREE-YEAR AVERAGE LOW BIRTHWEIGHT PERCENTAGE**  
**CALIFORNIA COUNTIES, 1995-1997**

| RANK<br>ORDER                        | COUNTY          | 1995-1997 LIVE BIRTHS (AVERAGE) |                 |            | 95% CONFIDENCE LIMITS |            |
|--------------------------------------|-----------------|---------------------------------|-----------------|------------|-----------------------|------------|
|                                      |                 | TOTAL<br>NUMBER                 | LOW BIRTHWEIGHT |            | LOWER                 | UPPER      |
|                                      |                 |                                 | NUMBER          | PERCENT    |                       |            |
| 1                                    | SIERRA          | 17.0                            | 0.0             | 0.0 +      | -                     | -          |
| 2                                    | ALPINE          | 9.3                             | 0.0             | 0.0 +      | -                     | -          |
| 3                                    | GLENN           | 436.3                           | 18.0            | 4.1 *      | 2.2                   | 6.0        |
| 4                                    | NAPA            | 1,490.3                         | 62.7            | 4.2        | 3.2                   | 5.2        |
| 5                                    | SAN BENITO      | 827.3                           | 38.0            | 4.6        | 3.1                   | 6.1        |
| 6                                    | HUMBOLDT        | 1,517.0                         | 70.3            | 4.6        | 3.6                   | 5.7        |
| 7                                    | LASSEN          | 307.3                           | 14.3            | 4.7 *      | 2.2                   | 7.1        |
| 8                                    | SANTA CRUZ      | 3,484.3                         | 164.7           | 4.7        | 4.0                   | 5.4        |
| 9                                    | IMPERIAL        | 2,505.0                         | 118.7           | 4.7        | 3.9                   | 5.6        |
| 10                                   | PLACER          | 2,748.0                         | 133.7           | 4.9        | 4.0                   | 5.7        |
| 11                                   | PLUMAS          | 157.3                           | 7.7             | 4.9 *      | 1.4                   | 8.4        |
| 12                                   | BUTTE           | 2,415.3                         | 118.7           | 4.9        | 4.0                   | 5.8        |
| 13                                   | AMADOR          | 268.7                           | 13.3            | 4.9 *      | 2.3                   | 7.6        |
| <b>YEAR 2000 NATIONAL OBJECTIVE:</b> |                 |                                 |                 | <b>5.0</b> |                       |            |
| 14                                   | SAN LUIS OBISPO | 2,543.7                         | 130.3           | 5.1        | 4.2                   | 6.0        |
| 15                                   | SHASTA          | 2,028.0                         | 104.0           | 5.1        | 4.1                   | 6.1        |
| 16                                   | MENDOCINO       | 1,058.7                         | 54.3            | 5.1        | 3.8                   | 6.5        |
| 17                                   | MONTEREY        | 6,721.3                         | 349.7           | 5.2        | 4.7                   | 5.7        |
| 18                                   | TUOLUMNE        | 474.0                           | 25.0            | 5.3        | 3.2                   | 7.3        |
| 19                                   | ORANGE          | 48,067.7                        | 2,540.7         | 5.3        | 5.1                   | 5.5        |
| 20                                   | MADERA          | 1,996.0                         | 105.7           | 5.3        | 4.3                   | 6.3        |
| 21                                   | SONOMA          | 5,451.0                         | 289.3           | 5.3        | 4.7                   | 5.9        |
| 22                                   | NEVADA          | 807.7                           | 43.3            | 5.4        | 3.8                   | 7.0        |
| 23                                   | MARIN           | 2,635.3                         | 141.3           | 5.4        | 4.5                   | 6.2        |
| 24                                   | VENTURA         | 11,671.0                        | 637.3           | 5.5        | 5.0                   | 5.9        |
| 25                                   | TEHAMA          | 675.7                           | 37.0            | 5.5        | 3.7                   | 7.2        |
| 26                                   | TULARE          | 7,092.0                         | 388.7           | 5.5        | 4.9                   | 6.0        |
| 27                                   | DEL NORTE       | 322.0                           | 17.7            | 5.5 *      | 2.9                   | 8.1        |
| 28                                   | COLUSA          | 308.7                           | 17.0            | 5.5 *      | 2.9                   | 8.1        |
| 29                                   | YOLO            | 2,149.3                         | 118.7           | 5.5        | 4.5                   | 6.5        |
| 30                                   | MODOC           | 111.3                           | 6.3             | 5.7 *      | 1.2                   | 10.1       |
| 31                                   | SUTTER          | 1,171.0                         | 66.7            | 5.7        | 4.3                   | 7.1        |
| 32                                   | LAKE            | 607.0                           | 34.7            | 5.7        | 3.8                   | 7.6        |
| 33                                   | SAN DIEGO       | 44,678.7                        | 2,561.7         | 5.7        | 5.5                   | 6.0        |
| 34                                   | CALAVERAS       | 343.0                           | 20.0            | 5.8        | 3.3                   | 8.4        |
| 35                                   | SAN MATEO       | 10,020.7                        | 585.0           | 5.8        | 5.4                   | 6.3        |
| 36                                   | SANTA BARBARA   | 5,859.7                         | 343.7           | 5.9        | 5.2                   | 6.5        |
| 37                                   | KINGS           | 2,159.7                         | 127.7           | 5.9        | 4.9                   | 6.9        |
| 38                                   | TRINITY         | 122.7                           | 7.3             | 5.9 *      | 1.6                   | 10.3       |
| 39                                   | SANTA CLARA     | 26,346.0                        | 1,574.3         | 6.0        | 5.7                   | 6.3        |
| 40                                   | MERCED          | 3,788.3                         | 232.0           | 6.1        | 5.3                   | 6.9        |
| 41                                   | MARIPOSA        | 146.7                           | 9.0             | 6.1 *      | 2.1                   | 10.1       |
| 42                                   | RIVERSIDE       | 23,669.3                        | 1,454.0         | 6.1        | 5.8                   | 6.5        |
| <b>CALIFORNIA</b>                    |                 | <b>537,975.7</b>                | <b>32,823.0</b> | <b>6.1</b> | <b>6.0</b>            | <b>6.2</b> |
| 43                                   | EL DORADO       | 1,685.3                         | 104.3           | 6.2        | 5.0                   | 7.4        |
| 44                                   | CONTRA COSTA    | 12,353.3                        | 764.7           | 6.2        | 5.8                   | 6.6        |
| 45                                   | STANISLAUS      | 7,079.3                         | 438.7           | 6.2        | 5.6                   | 6.8        |
| 46                                   | SISKIYOU        | 483.0                           | 30.3            | 6.3        | 4.0                   | 8.5        |
| 47                                   | YUBA            | 1,107.7                         | 69.7            | 6.3        | 4.8                   | 7.8        |
| 48                                   | SOLANO          | 5,657.7                         | 358.7           | 6.3        | 5.7                   | 7.0        |
| 49                                   | KERN            | 11,589.0                        | 739.3           | 6.4        | 5.9                   | 6.8        |
| 50                                   | LOS ANGELES     | 168,613.7                       | 10,839.3        | 6.4        | 6.3                   | 6.5        |
| 51                                   | SAN JOAQUIN     | 8,849.7                         | 571.7           | 6.5        | 5.9                   | 7.0        |
| 52                                   | SACRAMENTO      | 17,961.3                        | 1,172.3         | 6.5        | 6.2                   | 6.9        |
| 53                                   | FRESNO          | 14,609.0                        | 963.7           | 6.6        | 6.2                   | 7.0        |
| 54                                   | SAN BERNARDINO  | 29,260.0                        | 1,951.3         | 6.7        | 6.4                   | 7.0        |
| 55                                   | INYO            | 217.7                           | 14.7            | 6.8 *      | 3.3                   | 10.2       |
| 56                                   | SAN FRANCISCO   | 8,384.7                         | 570.0           | 6.8        | 6.2                   | 7.4        |
| 57                                   | ALAMEDA         | 20,790.3                        | 1,443.3         | 6.9        | 6.6                   | 7.3        |
| 58                                   | MONO            | 124.7                           | 8.7             | 7.0 *      | 2.3                   | 11.6       |

## **TABLE 19: BIRTHS TO ADOLESCENT MOTHERS, 15 TO 19 YEARS OLD, 1995-1997**

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 61.7 per 1,000 female population, a rate equivalent to approximately one birth for every 16 adolescent females. This rate was based on a three-year average number of births of 63,204.3 to adolescents from 1995 to 1997, and a female population of 1,023,945 for the same age group as of July 1, 1996.*

*Among counties with "reliable" rates, the age-specific rate ranged from 91.4 in Tulare County to 19.1 in Marin County, a difference in rates by a factor of 4.8 to 1.*

*A Year 2000 National Objective for births to adolescents 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. (See additional Technical Notes in the Appendix, pages 59 through 66).

### **DATA SOURCES**

Department of Health Services: Birth Statistical Master Files, 1995-1997.

Department of Finance: 1996 Race/Ethnic Population by County with Age and Sex Detail, January 1998.

**TABLE 19**  
**BIRTHS AMONG ADOLESCENT MOTHERS, 15 TO 19 YEARS OLD**  
**RANKED BY THREE-YEAR AVERAGE AGE-SPECIFIC BIRTH RATE**  
**CALIFORNIA COUNTIES, 1995-1997**

| RANK<br>ORDER   | COUNTY            | 1996 FEMALE<br>POPULATION<br>15-19 YRS OLD | 1995-1997<br>LIVE BIRTHS<br>(AVERAGE) | AGE-SPECIFIC<br>BIRTH RATE | 95% CONFIDENCE LIMITS |             |
|---|-------------------|--|---------------------------------------|----------------------------|-----------------------|-------------|
|   |                   |  |                                       |                            | LOWER                 | UPPER       |
| <b>YEAR 2000 NATIONAL OBJECTIVE: NONE ESTABLISHED</b> |                   |  |                                       |                            |                       |             |
| 1   | SIERRA            | 137  | 2.0                                   | 14.6 *                     | 0.0                   | 34.8        |
| 2   | MARIN             | 5,627                                      | 107.7                                 | 19.1                       | 15.5                  | 22.7        |
| 3   | NEVADA            | 3,101                                      | 87.0                                  | 28.1                       | 22.2                  | 34.0        |
| 4   | SAN LUIS OBISPO   | 8,625                                      | 254.7                                 | 29.5                       | 25.9                  | 33.2        |
| 5   | PLUMAS            | 776  | 23.3                                  | 30.1                       | 17.9                  | 42.3        |
| 6   | EL DORADO         | 5,148                                      | 160.3                                 | 31.1                       | 26.3                  | 36.0        |
| 7   | PLACER            | 7,506                                      | 235.0                                 | 31.3                       | 27.3                  | 35.3        |
| 8   | MARIPOSA          | 491  | 17.0                                  | 34.6 *                     | 18.2                  | 51.1        |
| 9   | CALAVERAS         | 1,294                                      | 46.0                                  | 35.5                       | 25.3                  | 45.8        |
| 10  | AMADOR            | 1,000                                      | 36.0                                  | 36.0                       | 24.2                  | 47.8        |
| 11  | YOLO              | 6,795                                      | 247.3                                 | 36.4                       | 31.9                  | 40.9        |
| 12  | SAN FRANCISCO     | 16,489                                     | 603.0                                 | 36.6                       | 33.7                  | 39.5        |
| 13  | MONO              | 291  | 10.7                                  | 36.7 *                     | 14.7                  | 58.7        |
| 14  | TRINITY           | 482  | 18.0                                  | 37.3 *                     | 20.1                  | 54.6        |
| 15  | SAN MATEO         | 18,693                                     | 699.3                                 | 37.4                       | 34.6                  | 40.2        |
| 16  | CONTRA COSTA      | 27,864                                     | 1,073.3                               | 38.5                       | 36.2                  | 40.8        |
| 17  | SONOMA            | 13,447                                     | 521.0                                 | 38.7                       | 35.4                  | 42.1        |
| 18  | NAPA              | 3,659                                      | 149.0                                 | 40.7                       | 34.2                  | 47.3        |
| 19  | TUOLUMNE          | 1,710                                      | 70.3                                  | 41.1                       | 31.5                  | 50.7        |
| 20  | SISKIYOU          | 1,690                                      | 77.3                                  | 45.8                       | 35.6                  | 56.0        |
| 21  | HUMBOLDT          | 4,362                                      | 199.7                                 | 45.8                       | 39.4                  | 52.1        |
| 22  | SANTA CRUZ        | 8,020                                      | 373.0                                 | 46.5                       | 41.8                  | 51.2        |
| 23  | SANTA CLARA       | 46,420                                     | 2,161.3                               | 46.6                       | 44.6                  | 48.5        |
| 24  | ALAMEDA           | 39,203                                     | 1,866.0                               | 47.6                       | 45.4                  | 49.8        |
| 25  | VENTURA           | 24,135                                     | 1,169.7                               | 48.5                       | 45.7                  | 51.2        |
| 26  | LASSEN            | 978  | 49.7                                  | 50.8                       | 36.7                  | 64.9        |
| 27  | SOLANO            | 13,362                                     | 679.0                                 | 50.8                       | 47.0                  | 54.6        |
| 28  | MODOC             | 396  | 20.7                                  | 52.2                       | 29.7                  | 74.7        |
| 29  | ALPINE            | 38   | 2.0                                   | 52.6 *                     | 0.0                   | 125.6       |
| 30  | INYO              | 639  | 34.0                                  | 53.2                       | 35.3                  | 71.1        |
| 31  | SHASTA            | 5,853                                      | 317.0                                 | 54.2                       | 48.2                  | 60.1        |
| 32  | MENDOCINO         | 3,099                                      | 169.3                                 | 54.6                       | 46.4                  | 62.9        |
| 33  | ORANGE            | 75,287                                     | 4,153.0                               | 55.2                       | 53.5                  | 56.8        |
| 34  | SANTA BARBARA     | 12,890                                     | 714.7                                 | 55.4                       | 51.4                  | 59.5        |
| 35  | SAN DIEGO         | 81,398                                     | 4,653.3                               | 57.2                       | 55.5                  | 58.8        |
| 36  | COLUSA            | 753  | 44.0                                  | 58.4                       | 41.2                  | 75.7        |
| 37  | SUTTER            | 2,641                                      | 154.3                                 | 58.4                       | 49.2                  | 67.7        |
| 38  | SACRAMENTO        | 37,348                                     | 2,197.3                               | 58.8                       | 56.4                  | 61.3        |
| 39  | LAKE              | 1,823                                      | 107.7                                 | 59.1                       | 47.9                  | 70.2        |
| 40  | GLENN             | 1,077                                      | 63.7                                  | 59.1                       | 44.6                  | 73.6        |
| 41  | BUTTE             | 6,350                                      | 376.3                                 | 59.3                       | 53.3                  | 65.3        |
| 42  | TEHAMA            | 1,993                                      | 118.3                                 | 59.4                       | 48.7                  | 70.1        |
|   | <b>CALIFORNIA</b> | <b>1,023,945</b>                           | <b>63,204.3</b>                       | <b>61.7</b>                | <b>61.2</b>           | <b>62.2</b> |
| 43  | IMPERIAL          | 6,309                                      | 389.7                                 | 61.8                       | 55.6                  | 67.9        |
| 44  | DEL NORTE         | 944  | 59.7                                  | 63.2                       | 47.2                  | 79.2        |
| 45  | STANISLAUS        | 16,136                                     | 1,063.7                               | 65.9                       | 62.0                  | 69.9        |
| 46  | SAN BENITO        | 1,715                                      | 115.3                                 | 67.2                       | 55.0                  | 79.5        |
| 47  | RIVERSIDE         | 47,423                                     | 3,305.0                               | 69.7                       | 67.3                  | 72.1        |
| 48  | LOS ANGELES       | 283,802                                    | 20,033.3                              | 70.6                       | 69.6                  | 71.6        |
| 49  | SAN JOAQUIN       | 19,381                                     | 1,383.0                               | 71.4                       | 67.6                  | 75.1        |
| 50  | SAN BERNARDINO    | 58,376                                     | 4,309.7                               | 73.8                       | 71.6                  | 76.0        |
| 51  | MONTEREY          | 11,236                                     | 920.3                                 | 81.9                       | 76.6                  | 87.2        |
| 52  | YUBA              | 2,244                                      | 192.0                                 | 85.6                       | 73.5                  | 97.7        |
| 53  | MERCED            | 7,982                                      | 687.3                                 | 86.1                       | 79.7                  | 92.5        |
| 54  | MADERA            | 4,432                                      | 383.7                                 | 86.6                       | 77.9                  | 95.2        |
| 55  | FRESNO            | 29,378                                     | 2,561.7                               | 87.2                       | 83.8                  | 90.6        |
| 56  | KERN              | 22,739                                     | 2,008.7                               | 88.3                       | 84.5                  | 92.2        |
| 57  | KINGS             | 4,181                                      | 379.0                                 | 90.6                       | 81.5                  | 99.8        |
| 58  | TULARE            | 14,777                                     | 1,350.0                               | 91.4                       | 86.5                  | 96.2        |

## **TABLE 20A: PRENATAL CARE NOT BEGUN DURING THE FIRST TRIMESTER OF PREGNANCY , 1995-1997**

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 19.5 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 103,981.0 and a three-year average total number of live births of 531,959.7 from 1995 to 1997.*

*Among counties with "reliable" percentages, the percent of births to mothers with late or no prenatal care ranged from 43.5 in Mendocino County to 10.7 in Sonoma County, a difference in percentage by a factor of 4.1 to 1.*

*None of the 58 counties, irrespective of the "reliability" of their percentages, or California as a whole met the Year 2000 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. (See additional Technical Notes in the Appendix, pages 59 through 66).

### **DATA SOURCES**

Department of Health Services: Birth Statistical Master Files, 1995-1997.

**TABLE 20A**  
**PRENATAL CARE NOT BEGUN DURING THE FIRST TRIMESTER OF PREGNANCY**  
**RANKED BY PERCENTAGE OF THREE-YEAR AVERAGE LATE / NO PRENATAL CARE**  
**CALIFORNIA COUNTIES, 1995-1997**

| RANK<br>ORDER     | COUNTY          | 1995-1997 LIVE BIRTHS (AVERAGE)      |                                 | 95% CONFIDENCE LIMITS |             |             |
|-------------------|-----------------|--------------------------------------|---------------------------------|-----------------------|-------------|-------------|
|                   |                 | TOTAL<br>NUMBER                      | LATE/NO PRENATAL CARE<br>NUMBER | PERCENT               | LOWER       | UPPER       |
|                   |                 | <b>YEAR 2000 NATIONAL OBJECTIVE:</b> |                                 |                       | <b>10.0</b> |             |
| 1                 | SONOMA          | 5,262.3                              | 565.7                           | 10.7                  | 9.9         | 11.6        |
| 2                 | ALAMEDA         | 20,461.0                             | 2,358.3                         | 11.5                  | 11.1        | 12.0        |
| 3                 | VENTURA         | 11,622.7                             | 1,384.7                         | 11.9                  | 11.3        | 12.5        |
| 4                 | AMADOR          | 267.7                                | 32.7                            | 12.2                  | 8.0         | 16.4        |
| 5                 | TUOLUMNE        | 473.7                                | 64.3                            | 13.6                  | 10.3        | 16.9        |
| 6                 | SAN FRANCISCO   | 8,324.3                              | 1,159.3                         | 13.9                  | 13.1        | 14.7        |
| 7                 | MARIN           | 2,607.7                              | 367.3                           | 14.1                  | 12.6        | 15.5        |
| 8                 | SHASTA          | 2,021.0                              | 295.7                           | 14.6                  | 13.0        | 16.3        |
| 9                 | SAN MATEO       | 9,983.3                              | 1,462.0                         | 14.6                  | 13.9        | 15.4        |
| 10                | SANTA CLARA     | 25,770.3                             | 3,906.0                         | 15.2                  | 14.7        | 15.6        |
| 11                | PLACER          | 2,731.7                              | 417.3                           | 15.3                  | 13.8        | 16.7        |
| 12                | CONTRA COSTA    | 12,093.7                             | 1,858.0                         | 15.4                  | 14.7        | 16.1        |
| 13                | CALAVERAS       | 340.7                                | 53.0                            | 15.6                  | 11.4        | 19.7        |
| 14                | ORANGE          | 47,835.7                             | 7,936.7                         | 16.6                  | 16.2        | 17.0        |
| 15                | SANTA CRUZ      | 3,434.3                              | 572.7                           | 16.7                  | 15.3        | 18.0        |
| 16                | EL DORADO       | 1,679.3                              | 280.3                           | 16.7                  | 14.7        | 18.6        |
| 17                | SAN BENITO      | 816.7                                | 142.3                           | 17.4                  | 14.6        | 20.3        |
| 18                | NEVADA          | 804.3                                | 142.7                           | 17.7                  | 14.8        | 20.6        |
| 19                | LOS ANGELES     | 166,722.7                            | 30,144.0                        | 18.1                  | 17.9        | 18.3        |
| 20                | TRINITY         | 122.3                                | 23.3                            | 19.1                  | 11.3        | 26.8        |
| 21                | FRESNO          | 14,536.7                             | 2,837.3                         | 19.5                  | 18.8        | 20.2        |
| <b>CALIFORNIA</b> |                 | <b>531,959.7</b>                     | <b>103,981.0</b>                | <b>19.5</b>           | <b>19.4</b> | <b>19.7</b> |
| 22                | SAN LUIS OBISPO | 2,534.7                              | 498.7                           | 19.7                  | 17.9        | 21.4        |
| 23                | STANISLAUS      | 7,060.0                              | 1,416.3                         | 20.1                  | 19.0        | 21.1        |
| 24                | NAPA            | 1,462.7                              | 300.3                           | 20.5                  | 18.2        | 22.9        |
| 25                | SANTA BARBARA   | 5,823.3                              | 1,208.7                         | 20.8                  | 19.6        | 21.9        |
| 26                | SAN DIEGO       | 44,385.3                             | 9,525.0                         | 21.5                  | 21.0        | 21.9        |
| 27                | MADERA          | 1,989.7                              | 427.0                           | 21.5                  | 19.4        | 23.5        |
| 28                | KINGS           | 2,132.3                              | 458.3                           | 21.5                  | 19.5        | 23.5        |
| 29                | TEHAMA          | 674.7                                | 150.3                           | 22.3                  | 18.7        | 25.8        |
| 30                | PLUMAS          | 156.3                                | 35.3                            | 22.6                  | 15.1        | 30.1        |
| 31                | HUMBOLDT        | 1,495.3                              | 361.3                           | 24.2                  | 21.7        | 26.7        |
| 32                | RIVERSIDE       | 23,492.0                             | 5,693.3                         | 24.2                  | 23.6        | 24.9        |
| 33                | MONTEREY        | 6,687.7                              | 1,681.0                         | 25.1                  | 23.9        | 26.3        |
| 34                | SISKIYOU        | 480.7                                | 121.7                           | 25.3                  | 20.8        | 29.8        |
| 35                | SIERRA          | 17.0                                 | 4.3                             | 25.5 *                | 1.5         | 49.5        |
| 36                | LASSEN          | 304.0                                | 77.7                            | 25.5                  | 19.9        | 31.2        |
| 37                | SAN BERNARDINO  | 28,923.3                             | 7,410.7                         | 25.6                  | 25.0        | 26.2        |
| 38                | SACRAMENTO      | 17,772.0                             | 4,611.3                         | 25.9                  | 25.2        | 26.7        |
| 39                | KERN            | 11,131.0                             | 2,941.0                         | 26.4                  | 25.5        | 27.4        |
| 40                | SAN JOAQUIN     | 8,625.7                              | 2,322.3                         | 26.9                  | 25.8        | 28.0        |
| 41                | TULARE          | 7,054.7                              | 1,926.3                         | 27.3                  | 26.1        | 28.5        |
| 42                | MARIPOSA        | 145.0                                | 40.0                            | 27.6                  | 19.0        | 36.1        |
| 43                | DEL NORTE       | 320.0                                | 90.7                            | 28.3                  | 22.5        | 34.2        |
| 44                | SOLANO          | 5,497.0                              | 1,558.7                         | 28.4                  | 26.9        | 29.8        |
| 45                | MODOC           | 110.7                                | 31.7                            | 28.6                  | 18.6        | 38.6        |
| 46                | BUTTE           | 2,410.3                              | 702.0                           | 29.1                  | 27.0        | 31.3        |
| 47                | SUTTER          | 1,167.7                              | 340.3                           | 29.1                  | 26.0        | 32.2        |
| 48                | YOLO            | 2,126.7                              | 637.3                           | 30.0                  | 27.6        | 32.3        |
| 49                | GLENN           | 434.3                                | 133.0                           | 30.6                  | 25.4        | 35.8        |
| 50                | IMPERIAL        | 2,502.3                              | 772.3                           | 30.9                  | 28.7        | 33.0        |
| 51                | MERCED          | 3,729.3                              | 1,216.3                         | 32.6                  | 30.8        | 34.4        |
| 52                | MONO            | 124.3                                | 40.7                            | 32.7                  | 22.7        | 42.8        |
| 53                | LAKE            | 598.3                                | 205.0                           | 34.3                  | 29.6        | 39.0        |
| 54                | INYO            | 217.3                                | 75.3                            | 34.7                  | 26.8        | 42.5        |
| 55                | YUBA            | 1,105.3                              | 392.7                           | 35.5                  | 32.0        | 39.0        |
| 56                | COLUSA          | 308.0                                | 113.3                           | 36.8                  | 30.0        | 43.6        |
| 57                | MENDOCINO       | 1,039.3                              | 452.0                           | 43.5                  | 39.5        | 47.5        |
| 58                | ALPINE          | 9.3                                  | 5.0                             | 53.6 *                | 6.6         | 100.5       |



**TABLE 20B: "ADEQUATE/ADEQUATE PLUS" PRENATAL CARE  
(ADEQUACY OF PRENATAL CARE UTILIZATION INDEX),  
1995-1997**

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 67.1 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 361,108.0 and a three-year average total number of live births of 538,009.3 from 1995 to 1997.*

*Among counties with "reliable" percentages, the percent of births to mothers with "adequate/adequate plus" prenatal care ranged from 80.3 in San Luis Obispo County to 46.7 in San Benito County, a difference in percentage by a factor of 1.7 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-born infants whose mothers received "adequate/adequate plus" prenatal care according to the Adequacy of Prenatal Care Utilization Index.*

**Notes:**

The average total number of live births includes "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. (See additional Technical Notes in the Appendix, pages 59 through 66).

**DATA SOURCES**

Department of Health Services: Birth Statistical Master Files, 1995-1997.

**TABLE 20B**  
**"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, 1995-1997**

| RANK<br>ORDER                        | COUNTY            | 1995-1997 LIVE BIRTHS (AVERAGE) |                                       |             | 95% CONFIDENCE LIMITS |             |
|--------------------------------------|-------------------|---------------------------------|---------------------------------------|-------------|-----------------------|-------------|
|                                      |                   | TOTAL<br>NUMBER                 | ADEQUATE/ADEQUATE PLUS CARE<br>NUMBER | PERCENT     | LOWER                 | UPPER       |
| <b>YEAR 2010 NATIONAL OBJECTIVE:</b> |                   |                                 | <b>90.0</b>                           |             |                       |             |
| 1                                    | SAN LUIS OBISPO   | 2,543.7                         | 2,042.3                               | 80.3        | 76.8                  | 83.8        |
| 2                                    | TUOLUMNE          | 474.0                           | 377.0                                 | 79.5        | 71.5                  | 87.6        |
| 3                                    | MARIN             | 2,635.7                         | 2,089.3                               | 79.3        | 75.9                  | 82.7        |
| 4                                    | VENTURA           | 11,671.7                        | 9,110.0                               | 78.1        | 76.4                  | 79.7        |
| 5                                    | SAN FRANCISCO     | 8,385.3                         | 6,440.0                               | 76.8        | 74.9                  | 78.7        |
| 6                                    | FRESNO            | 14,610.3                        | 11,044.0                              | 75.6        | 74.2                  | 77.0        |
| 7                                    | ALPINE            | 9.3                             | 7.0                                   | 75.0 *      | 19.4                  | 130.6       |
| 8                                    | ALAMEDA           | 20,791.7                        | 15,478.3                              | 74.4        | 73.3                  | 75.6        |
| 9                                    | MONO              | 124.7                           | 92.3                                  | 74.1        | 59.0                  | 89.2        |
| 10                                   | EL DORADO         | 1,685.3                         | 1,238.0                               | 73.5        | 69.4                  | 77.5        |
| 11                                   | LASSEN            | 307.7                           | 225.7                                 | 73.3        | 63.8                  | 82.9        |
| 12                                   | AMADOR            | 268.7                           | 196.0                                 | 73.0        | 62.7                  | 83.2        |
| 13                                   | PLACER            | 2,748.0                         | 1,988.0                               | 72.3        | 69.2                  | 75.5        |
| 14                                   | SAN MATEO         | 10,021.3                        | 7,219.0                               | 72.0        | 70.4                  | 73.7        |
| 15                                   | CALAVERAS         | 343.0                           | 244.3                                 | 71.2        | 62.3                  | 80.2        |
| 16                                   | MADERA            | 1,996.0                         | 1,414.3                               | 70.9        | 67.2                  | 74.6        |
| 17                                   | ORANGE            | 48,071.3                        | 33,716.3                              | 70.1        | 69.4                  | 70.9        |
| 18                                   | SANTA BARBARA     | 5,860.0                         | 4,083.7                               | 69.7        | 67.5                  | 71.8        |
| 19                                   | SUTTER            | 1,171.0                         | 806.0                                 | 68.8        | 64.1                  | 73.6        |
| 20                                   | TEHAMA            | 675.7                           | 462.7                                 | 68.5        | 62.2                  | 74.7        |
| 21                                   | SAN DIEGO         | 44,681.0                        | 30,523.3                              | 68.3        | 67.5                  | 69.1        |
| 22                                   | CONTRA COSTA      | 12,353.7                        | 8,406.3                               | 68.0        | 66.6                  | 69.5        |
| 23                                   | LOS ANGELES       | 168,623.7                       | 113,999.0                             | 67.6        | 67.2                  | 68.0        |
| 24                                   | SONOMA            | 5,451.3                         | 3,676.0                               | 67.4        | 65.3                  | 69.6        |
|                                      | <b>CALIFORNIA</b> | <b>538,009.3</b>                | <b>361,108.0</b>                      | <b>67.1</b> | <b>66.9</b>           | <b>67.3</b> |
| 25                                   | BUTTE             | 2,415.3                         | 1,609.7                               | 66.6        | 63.4                  | 69.9        |
| 26                                   | IMPERIAL          | 2,505.0                         | 1,663.0                               | 66.4        | 63.2                  | 69.6        |
| 27                                   | SHASTA            | 2,028.0                         | 1,340.3                               | 66.1        | 62.6                  | 69.6        |
| 28                                   | DEL NORTE         | 322.3                           | 211.3                                 | 65.6        | 56.7                  | 74.4        |
| 29                                   | INYO              | 217.7                           | 142.7                                 | 65.5        | 54.8                  | 76.3        |
| 30                                   | KINGS             | 2,160.0                         | 1,415.0                               | 65.5        | 62.1                  | 68.9        |
| 31                                   | PLUMAS            | 157.3                           | 102.0                                 | 64.8        | 52.2                  | 77.4        |
| 32                                   | GLENN             | 436.3                           | 282.7                                 | 64.8        | 57.2                  | 72.3        |
| 33                                   | SANTA CLARA       | 26,348.3                        | 16,909.0                              | 64.2        | 63.2                  | 65.1        |
| 34                                   | SACRAMENTO        | 17,962.0                        | 11,502.0                              | 64.0        | 62.9                  | 65.2        |
| 35                                   | MONTEREY          | 6,721.7                         | 4,292.7                               | 63.9        | 62.0                  | 65.8        |
| 36                                   | SISKIYOU          | 483.0                           | 307.0                                 | 63.6        | 56.5                  | 70.7        |
| 37                                   | RIVERSIDE         | 23,670.7                        | 15,001.7                              | 63.4        | 62.4                  | 64.4        |
| 38                                   | YUBA              | 1,107.7                         | 693.7                                 | 62.6        | 58.0                  | 67.3        |
| 39                                   | SANTA CRUZ        | 3,484.3                         | 2,169.7                               | 62.3        | 59.6                  | 64.9        |
| 40                                   | MARIPOSA          | 146.7                           | 91.0                                  | 62.0        | 49.3                  | 74.8        |
| 41                                   | NAPA              | 1,490.3                         | 921.0                                 | 61.8        | 57.8                  | 65.8        |
| 42                                   | TULARE            | 7,092.7                         | 4,361.7                               | 61.5        | 59.7                  | 63.3        |
| 43                                   | SIERRA            | 17.0                            | 10.3                                  | 60.8 *      | 23.7                  | 97.8        |
| 44                                   | NEVADA            | 807.7                           | 490.3                                 | 60.7        | 55.3                  | 66.1        |
| 45                                   | STANISLAUS        | 7,080.0                         | 4,259.3                               | 60.2        | 58.4                  | 62.0        |
| 46                                   | SAN BERNARDINO    | 29,262.3                        | 17,584.3                              | 60.1        | 59.2                  | 61.0        |
| 47                                   | YOLO              | 2,149.3                         | 1,291.0                               | 60.1        | 56.8                  | 63.3        |
| 48                                   | SAN JOAQUIN       | 8,849.7                         | 5,237.3                               | 59.2        | 57.6                  | 60.8        |
| 49                                   | MERCED            | 3,788.7                         | 2,180.7                               | 57.6        | 55.1                  | 60.0        |
| 50                                   | KERN              | 11,590.0                        | 6,589.3                               | 56.9        | 55.5                  | 58.2        |
| 51                                   | SOLANO            | 5,658.3                         | 3,175.7                               | 56.1        | 54.2                  | 58.1        |
| 52                                   | COLUSA            | 308.7                           | 173.0                                 | 56.0        | 47.7                  | 64.4        |
| 53                                   | LAKE              | 607.0                           | 339.3                                 | 55.9        | 50.0                  | 61.9        |
| 54                                   | HUMBOLDT          | 1,517.0                         | 833.7                                 | 55.0        | 51.2                  | 58.7        |
| 55                                   | TRINITY           | 122.7                           | 63.7                                  | 51.9        | 39.2                  | 64.7        |
| 56                                   | MENDOCINO         | 1,059.0                         | 543.0                                 | 51.3        | 47.0                  | 55.6        |
| 57                                   | MODOC             | 111.3                           | 55.7                                  | 50.0        | 36.9                  | 63.1        |
| 58                                   | SAN BENITO        | 827.3                           | 386.3                                 | 46.7        | 42.0                  | 51.4        |

## **TABLE 21: 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 2000 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. (See additional Technical Notes in the Appendix, pages 59 through 66).

### **DATA SOURCES**

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

**TABLE 21**  
**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 2000 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 22  
A COMPARISON OF THREE-YEAR AVERAGE RATES AND PERCENTAGES  
AMONG SELECTED HEALTH STATUS INDICATORS  
CALIFORNIA COUNTIES**

| COUNTY            | AGE-ADJUSTED DEATH RATES           |             |                                    |             |                                    |             |
|-------------------|------------------------------------|-------------|------------------------------------|-------------|------------------------------------|-------------|
|                   | MOTOR VEHICLE ACCIDENTS            |             | UNINTENTIONAL INJURIES             |             | FIREARM INJURIES                   |             |
|                   | (THREE-YEAR AVERAGES) <sup>1</sup> |             | (THREE-YEAR AVERAGES) <sup>1</sup> |             | (THREE-YEAR AVERAGES) <sup>1</sup> |             |
|                   | 1992-1994                          | 1995-1997   | 1992-1994                          | 1995-1997   | 1992-1994                          | 1995-1997   |
| <b>CALIFORNIA</b> | <b>13.4</b>                        | <b>12.4</b> | <b>27.1</b>                        | <b>25.7</b> | <b>17.0</b>                        | <b>13.5</b> |
| ALAMEDA           | 8.8                                | 8.3         | 23.8                               | 22.5        | 18.5                               | 14.0        |
| ALPINE            | 0.0 +                              | 22.4 *      | 0.0 +                              | 22.4 *      | 0.0 +                              | 0.0 +       |
| AMADOR            | 23.2 ^                             | 15.1 *      | 39.1                               | 28.4 *      | 19.0 ^                             | 6.7 *       |
| BUTTE             | 18.5                               | 21.5        | 38.0                               | 40.6        | 11.9                               | 13.5        |
| CALAVERAS         | 35.1                               | 35.9 *      | 57.3                               | 48.0 *      | 15.5 ^                             | 14.7 *      |
| COLUSA            | 36.2 ^                             | 35.0 *      | 43.2 ^                             | 52.7 *      | 17.3 ^                             | 15.3 *      |
| CONTRA COSTA      | 10.3                               | 8.8         | 23.4                               | 21.2        | 17.4                               | 14.0        |
| DEL NORTE         | 13.8 ^                             | 31.4 *      | 31.3 ^                             | 50.7 *      | 16.8 ^                             | 9.1 *       |
| EL DORADO         | 18.7                               | 18.7        | 34.8                               | 35.7        | 11.4                               | 11.5 *      |
| FRESNO            | 28.5                               | 23.6        | 45.6                               | 38.5        | 19.9                               | 16.7        |
| GLENN             | 37.2 ^                             | 25.8 *      | 52.2                               | 36.4 *      | 7.2 ^                              | 7.6 *       |
| HUMBOLDT          | 18.6                               | 22.5        | 50.3                               | 50.9        | 18.0                               | 14.6 *      |
| IMPERIAL          | 21.2                               | 20.6        | 38.4                               | 43.2        | 8.8                                | 7.2 *       |
| INYO              | 15.3 ^                             | 26.8 *      | 45.3 ^                             | 53.0 *      | 19.4 ^                             | 9.2 *       |
| KERN              | 22.8                               | 18.6        | 42.4                               | 38.0        | 16.7                               | 14.5        |
| KINGS             | 19.3                               | 22.4        | 33.5                               | 37.2        | 11.8                               | 10.6 *      |
| LAKE              | 32.7                               | 14.3 *      | 60.6                               | 40.2        | 24.6                               | 14.8 *      |
| LASSEN            | 12.8 ^                             | 17.1 *      | 20.4 ^                             | 25.1 *      | 15.1 ^                             | 11.2 *      |
| LOS ANGELES       | 11.8                               | 10.6        | 24.7                               | 21.9        | 24.0                               | 19.1        |
| MADERA            | 34.0                               | 29.2        | 55.8                               | 45.6        | 17.2                               | 13.3 *      |
| MARIN             | 10.2                               | 8.3 *       | 22.6                               | 18.0        | 6.3                                | 6.2 *       |
| MARIPOSA          | 24.9 ^                             | 33.1 *      | 45.3 ^                             | 58.6 *      | 12.6 ^                             | 12.5 *      |
| MENDOCINO         | 30.0                               | 25.1        | 50.5                               | 48.1        | 19.2                               | 15.1 *      |
| MERCED            | 26.8                               | 24.1        | 40.4                               | 39.8        | 13.1                               | 8.8 *       |
| MODOC             | 25.9 ^                             | 33.5 *      | 51.0 ^                             | 64.6 *      | 30.6 ^                             | 20.8 *      |
| MONO              | 31.5 ^                             | 24.0 *      | 47.6 ^                             | 41.9 *      | 18.8 ^                             | 5.4 *       |
| MONTEREY          | 13.5                               | 14.5        | 28.4                               | 29.1        | 12.5                               | 11.3        |
| NAPA              | 10.6                               | 8.5 *       | 25.6                               | 21.9        | 7.3 ^                              | 5.8 *       |
| NEVADA            | 18.7                               | 18.5 *      | 30.2                               | 37.6        | 15.6                               | 9.4 *       |
| ORANGE            | 9.4                                | 8.7         | 20.4                               | 19.5        | 11.4                               | 9.0         |
| PLACER            | 13.7                               | 13.5        | 28.4                               | 25.8        | 9.3                                | 10.4        |
| PLUMAS            | 25.2 ^                             | 21.5 *      | 47.7 ^                             | 35.6 *      | 13.6 ^                             | 23.5 *      |
| RIVERSIDE         | 18.7                               | 18.3        | 32.7                               | 33.3        | 18.7                               | 14.0        |
| SACRAMENTO        | 14.7                               | 13.7        | 27.1                               | 26.5        | 17.8                               | 14.6        |
| SAN BENITO        | 24.4 ^                             | 22.5 *      | 38.1                               | 38.2 *      | 4.7 ^                              | 4.3 *       |
| SAN BERNARDINO    | 18.0                               | 17.3        | 30.6                               | 28.7        | 21.6                               | 16.4        |
| SAN DIEGO         | 10.4                               | 9.6         | 22.0                               | 22.7        | 12.5                               | 9.6         |
| SAN FRANCISCO     | 7.9                                | 7.3         | 31.9                               | 31.6        | 14.3                               | 10.4        |
| SAN JOAQUIN       | 22.7                               | 18.5        | 40.6                               | 35.7        | 18.0                               | 16.6        |
| SAN LUIS OBISPO   | 13.1                               | 11.9        | 27.2                               | 29.5        | 9.5                                | 8.3         |
| SAN MATEO         | 7.2                                | 6.4         | 18.8                               | 18.3        | 10.8                               | 7.6         |
| SANTA BARBARA     | 10.8                               | 9.1         | 24.6                               | 25.3        | 6.7                                | 5.9         |
| SANTA CLARA       | 8.5                                | 8.1         | 18.5                               | 17.5        | 6.9                                | 5.5         |
| SANTA CRUZ        | 11.2                               | 11.0        | 23.0                               | 23.3        | 9.9                                | 5.3 *       |
| SHASTA            | 24.9                               | 20.4        | 40.4                               | 38.8        | 17.2                               | 17.1        |
| SIERRA            | 0.0 +                              | 0.0 +       | 64.7 ^                             | 36.1 *      | 0.0 +                              | 15.6 *      |
| SISKIYOU          | 22.8                               | 23.8 *      | 44.7                               | 41.6 *      | 25.3                               | 16.0 *      |
| SOLANO            | 13.8                               | 13.0        | 28.1                               | 27.3        | 12.2                               | 11.1        |
| SONOMA            | 13.9                               | 14.2        | 24.5                               | 28.8        | 8.2                                | 9.7         |
| STANISLAUS        | 18.1                               | 20.8        | 38.4                               | 38.8        | 14.7                               | 11.6        |
| SUTTER            | 23.2                               | 26.6 *      | 39.6                               | 42.6        | 14.7                               | 13.3 *      |
| TEHAMA            | 22.7                               | 27.6 *      | 43.3                               | 38.9        | 19.6 ^                             | 12.5 *      |
| TRINITY           | 30.4 ^                             | 33.0 *      | 63.0 ^                             | 64.2 *      | 25.0 ^                             | 35.2 *      |
| TULARE            | 28.9                               | 25.4        | 44.6                               | 46.0        | 14.4                               | 13.4        |
| TUOLUMNE          | 18.7 ^                             | 22.2 *      | 44.8                               | 42.5        | 13.8 ^                             | 9.1 *       |
| VENTURA           | 12.2                               | 11.0        | 24.2                               | 23.6        | 8.8                                | 8.4         |
| YOLO              | 16.9                               | 11.2 *      | 28.5                               | 23.6        | 9.9                                | 8.7 *       |
| YUBA              | 30.7                               | 27.8 *      | 50.6                               | 49.4        | 17.0 ^                             | 15.1 *      |

**TABLE 22 (continued)**  
**A COMPARISON OF THREE-YEAR AVERAGE RATES AND PERCENTAGES**  
**AMONG SELECTED HEALTH STATUS INDICATORS**  
**CALIFORNIA COUNTIES**

| COUNTY            | AGE-ADJUSTED DEATH RATES                       |             |   |             |   |              |
|-------------------|--|-------------|---|-------------|---|--------------|
|                   | HOMICIDE<br>(THREE-YEAR AVERAGES) <sup>1</sup> |             | SUICIDE<br>(THREE-YEAR AVERAGES) <sup>1</sup> |             | ALL CANCERS<br>(THREE-YEAR AVERAGES) <sup>1</sup> |              |
|                   | 1992-1994                                      | 1995-1997   | 1992-1994                                     | 1995-1997   | 1992-1994   | 1995-1997    |
| <b>CALIFORNIA</b> | <b>13.4</b>                                    | <b>10.6</b> | <b>10.9</b>                                   | <b>10.3</b> | <b>118.0</b>                                      | <b>113.3</b> |
| ALAMEDA           | 16.2   | 13.5        | 9.9   | 9.2         | 125.2   | 117.1        |
| ALPINE            | 0.0 +  | 0.0 +       | 0.0 +   | 0.0 +       | 0.0 +   | 126.4 *      |
| AMADOR            | 1.6 ^  | 0.0 +       | 19.8 ^  | 12.3 *      | 120.6   | 125.1        |
| BUTTE             | 3.9 ^  | 5.4 *       | 14.3  | 14.2        | 130.5   | 126.0        |
| CALAVERAS         | 8.0 ^  | 3.6 *       | 19.3 ^  | 15.7 *      | 117.3   | 141.8        |
| COLUSA            | 5.8 ^  | 6.6 *       | 15.7 ^  | 9.2 *       | 121.6   | 123.3        |
| CONTRA COSTA      | 14.3   | 10.5        | 9.4   | 8.6         | 113.1   | 115.6        |
| DEL NORTE         | 4.3 ^  | 7.3 *       | 16.1 ^  | 16.0 *      | 138.1   | 108.5        |
| EL DORADO         | 5.0 ^  | 2.3 *       | 12.9  | 19.0        | 103.2   | 116.5        |
| FRESNO            | 18.1   | 13.5        | 10.1  | 10.2        | 114.7   | 106.6        |
| GLENN             | 2.9 ^  | 1.2 *       | 17.0 ^  | 6.7 *       | 128.1   | 148.1        |
| HUMBOLDT          | 7.7 ^  | 5.2 *       | 16.0  | 18.0        | 137.6   | 127.0        |
| IMPERIAL          | 7.5 ^  | 7.5 *       | 7.6 ^   | 5.7 *       | 113.3   | 111.5        |
| INYO              | 0.0 +  | 3.4 *       | 16.7 ^  | 18.4 *      | 106.8   | 99.1         |
| KERN              | 12.7   | 10.6        | 10.4  | 11.7        | 118.8   | 118.1        |
| KINGS             | 8.4 ^  | 8.6 *       | 10.5  | 9.7 *       | 105.9   | 106.3        |
| LAKE              | 8.5 ^  | 7.4 *       | 22.7  | 22.8 *      | 152.0   | 151.3        |
| LASSEN            | 6.6 ^  | 4.5 *       | 13.4 ^  | 13.3 *      | 89.9  | 95.4         |
| LOS ANGELES       | 21.9   | 17.7        | 10.2  | 8.9         | 119.8   | 111.2        |
| MADERA            | 13.5   | 11.1 *      | 6.2 ^   | 10.0 *      | 108.7   | 109.4        |
| MARIN             | 2.9 ^  | 2.5 *       | 11.4  | 12.5        | 115.0   | 115.8        |
| MARIPOSA          | 3.3 ^  | 9.8 *       | 8.7 ^   | 4.5 *       | 104.8   | 134.7        |
| MENDOCINO         | 7.6 ^  | 8.2 *       | 21.1  | 18.0 *      | 134.4   | 127.1        |
| MERCED            | 9.6  | 6.7 *       | 10.6  | 8.3 *       | 125.0   | 124.2        |
| MODOC             | 0.0 +  | 0.0 +       | 14.7 ^  | 25.2 *      | 104.3   | 97.0 *       |
| MONO              | 0.0 +  | 3.2 *       | 22.3 ^  | 9.8 *       | 74.4 ^  | 58.7 *       |
| MONTEREY          | 9.5  | 10.0        | 9.8   | 11.2        | 109.7   | 112.5        |
| NAPA              | 3.5 ^  | 1.4 *       | 10.7  | 10.1 *      | 124.0   | 129.2        |
| NEVADA            | 5.5 ^  | 3.5 *       | 15.6  | 14.5 *      | 109.2   | 105.0        |
| ORANGE            | 7.9  | 5.8         | 9.3   | 8.5         | 113.9   | 110.0        |
| PLACER            | 4.3 ^  | 3.6 *       | 12.8  | 14.1        | 113.9   | 116.4        |
| PLUMAS            | 0.0 +  | 8.3 *       | 14.8 ^  | 19.5 *      | 97.2  | 124.0        |
| RIVERSIDE         | 13.3   | 10.4        | 12.6  | 11.7        | 114.9   | 114.5        |
| SACRAMENTO        | 12.2   | 10.0        | 12.4  | 13.1        | 121.9   | 122.8        |
| SAN BENITO        | 3.3 ^  | 1.5 *       | 6.2 ^   | 6.1 *       | 106.4   | 95.2         |
| SAN BERNARDINO    | 15.9   | 12.4        | 13.0  | 10.9        | 127.2   | 122.6        |
| SAN DIEGO         | 8.6  | 6.2         | 12.1  | 12.0        | 118.1   | 118.3        |
| SAN FRANCISCO     | 14.0   | 9.0         | 15.3  | 13.9        | 118.1   | 107.9        |
| SAN JOAQUIN       | 14.1   | 13.5        | 10.0  | 10.4        | 117.2   | 116.2        |
| SAN LUIS OBISPO   | 3.5 ^  | 3.0 *       | 13.3  | 12.4        | 114.0   | 113.9        |
| SAN MATEO         | 6.8  | 5.3         | 10.3  | 9.6         | 114.1   | 107.7        |
| SANTA BARBARA     | 3.6  | 4.3 *       | 12.3  | 9.8         | 110.9   | 99.7         |
| SANTA CLARA       | 4.4  | 3.6         | 8.2   | 7.8         | 105.9   | 98.4         |
| SANTA CRUZ        | 4.0 ^  | 3.0 *       | 14.9  | 10.7        | 119.0   | 104.3        |
| SHASTA            | 6.2 ^  | 6.5 *       | 17.6  | 19.9        | 136.4   | 134.0        |
| SIERRA            | 0.0 +  | 0.0 +       | 17.9 ^  | 24.1 *      | 93.8 ^  | 93.9 *       |
| SISKIYOU          | 3.3 ^  | 7.5 *       | 24.9  | 16.3 *      | 122.1   | 147.9        |
| SOLANO            | 10.9   | 7.3         | 8.2   | 9.5         | 130.8   | 132.5        |
| SONOMA            | 3.7  | 3.3 *       | 11.9  | 15.6        | 123.5   | 118.7        |
| STANISLAUS        | 7.8  | 9.2         | 10.9  | 11.1        | 124.9   | 121.3        |
| SUTTER            | 6.5 ^  | 5.3 *       | 15.0  | 12.6 *      | 119.9   | 115.1        |
| TEHAMA            | 3.8 ^  | 8.4 *       | 17.4 ^  | 10.4 *      | 139.8   | 126.6        |
| TRINITY           | 6.5 ^  | 16.5 *      | 25.1 ^  | 18.8 *      | 161.7   | 158.1        |
| TULARE            | 12.2   | 10.0        | 8.3   | 8.6         | 109.8   | 109.8        |
| TUOLUMNE          | 5.5 ^  | 0.6 *       | 16.8 ^  | 10.9 *      | 115.2   | 136.1        |
| VENTURA           | 5.0  | 4.7         | 9.8   | 9.9         | 109.5   | 102.7        |
| YOLO              | 3.3 ^  | 4.3 *       | 13.0  | 11.3 *      | 118.7   | 130.6        |
| YUBA              | 7.4 ^  | 8.6 *       | 19.6  | 15.9 *      | 139.0   | 140.4        |

**TABLE 22 (continued)**  
**A COMPARISON OF THREE-YEAR AVERAGE RATES AND PERCENTAGES**  
**AMONG SELECTED HEALTH STATUS INDICATORS**  
**CALIFORNIA COUNTIES**

| COUNTY            | AGE-ADJUSTED DEATH RATES           |             |                                    |             |                                    |            |
|-------------------|------------------------------------|-------------|------------------------------------|-------------|------------------------------------|------------|
|                   | CORONARY HEART DISEASE             |             | CEREBROVASCULAR DISEASE            |             | DRUG-RELATED DEATHS                |            |
|                   | (THREE-YEAR AVERAGES) <sup>1</sup> |             | (THREE-YEAR AVERAGES) <sup>1</sup> |             | (THREE-YEAR AVERAGES) <sup>1</sup> |            |
|                   | 1992-1994                          | 1995-1997   | 1992-1994                          | 1995-1997   | 1992-1994                          | 1995-1997  |
| <b>CALIFORNIA</b> | <b>103.9</b>                       | <b>96.9</b> | <b>25.8</b>                        | <b>26.1</b> | <b>7.8</b>                         | <b>7.9</b> |
| ALAMEDA           | 98.5                               | 91.8        | 30.3                               | 29.4        | 9.3                                | 9.0        |
| ALPINE            | 0.0 +                              | 90.5 *      | 0.0 +                              | 0.0 +       | 0.0 +                              | 0.0 +      |
| AMADOR            | 80.1                               | 91.6        | 25.0                               | 21.7 *      | 5.3 ^                              | 7.7 *      |
| BUTTE             | 81.4                               | 74.3        | 24.9                               | 26.5        | 8.8                                | 7.0 *      |
| CALAVERAS         | 82.7                               | 74.7        | 22.8                               | 22.0 *      | 9.9 ^                              | 4.9 *      |
| COLUSA            | 119.6                              | 90.7        | 24.7 ^                             | 31.0 *      | 0.0 +                              | 3.7 *      |
| CONTRA COSTA      | 79.2                               | 80.8        | 24.3                               | 28.8        | 7.0                                | 6.3        |
| DEL NORTE         | 94.5                               | 100.9       | 29.7                               | 25.6 *      | 8.4 ^                              | 9.8 *      |
| EL DORADO         | 73.8                               | 75.2        | 18.6                               | 22.2        | 5.7 ^                              | 8.8 *      |
| FRESNO            | 96.3                               | 95.0        | 24.8                               | 25.9        | 9.9                                | 6.1        |
| GLENN             | 91.3                               | 75.7        | 18.9                               | 30.7 *      | 2.4 ^                              | 0.4 *      |
| HUMBOLDT          | 96.1                               | 90.8        | 23.4                               | 25.9        | 16.8                               | 13.8 *     |
| IMPERIAL          | 115.1                              | 96.3        | 31.2                               | 29.3        | 6.5 ^                              | 10.5 *     |
| INYO              | 77.7                               | 104.9       | 23.8                               | 30.4 *      | 8.5 ^                              | 4.9 *      |
| KERN              | 123.5                              | 117.7       | 25.9                               | 26.1        | 7.8                                | 11.1       |
| KINGS             | 109.2                              | 115.4       | 33.2                               | 32.7        | 6.7 ^                              | 4.7 *      |
| LAKE              | 115.7                              | 118.2       | 32.7                               | 33.7        | 11.0 ^                             | 15.3 *     |
| LASSEN            | 66.7                               | 64.5        | 17.6 ^                             | 13.2 *      | 7.3 ^                              | 6.6 *      |
| LOS ANGELES       | 125.8                              | 109.7       | 27.3                               | 25.4        | 8.3                                | 7.6        |
| MADERA            | 94.2                               | 90.3        | 20.5                               | 23.6        | 9.6 ^                              | 5.8 *      |
| MARIN             | 71.8                               | 65.9        | 25.7                               | 24.9        | 8.1                                | 7.4        |
| MARIPOSA          | 87.1                               | 85.8        | 21.2 ^                             | 17.1 *      | 4.7 ^                              | 6.7 *      |
| MENDOCINO         | 89.1                               | 92.1        | 29.6                               | 28.4        | 8.7 ^                              | 8.8 *      |
| MERCED            | 87.9                               | 95.5        | 25.7                               | 29.2        | 5.6 ^                              | 6.0 *      |
| MODOC             | 97.8                               | 78.9 *      | 24.7 ^                             | 21.9 *      | 0.0 +                              | 5.7 *      |
| MONO              | 40.7 ^                             | 64.8 *      | 12.6 ^                             | 19.4 *      | 0.0 +                              | 6.5 *      |
| MONTEREY          | 81.1                               | 73.3        | 26.9                               | 26.7        | 7.4                                | 9.1        |
| NAPA              | 89.7                               | 86.9        | 25.1                               | 28.5        | 6.3 ^                              | 6.5 *      |
| NEVADA            | 68.9                               | 64.5        | 21.7                               | 18.5        | 4.7 ^                              | 6.1 *      |
| ORANGE            | 97.8                               | 95.3        | 22.4                               | 24.6        | 6.1                                | 6.4        |
| PLACER            | 83.3                               | 81.2        | 23.4                               | 26.1        | 5.7                                | 3.8 *      |
| PLUMAS            | 66.0                               | 73.0        | 14.6 ^                             | 12.2 *      | 4.1 ^                              | 1.5 *      |
| RIVERSIDE         | 117.5                              | 107.5       | 23.9                               | 24.5        | 6.9                                | 8.0        |
| SACRAMENTO        | 98.1                               | 103.7       | 25.6                               | 29.2        | 7.2                                | 8.0        |
| SAN BENITO        | 85.2                               | 52.3        | 17.7                               | 20.7 *      | 4.2 ^                              | 2.4 *      |
| SAN BERNARDINO    | 131.0                              | 127.3       | 27.9                               | 26.5        | 6.6                                | 7.5        |
| SAN DIEGO         | 91.5                               | 92.1        | 23.4                               | 25.5        | 8.1                                | 9.6        |
| SAN FRANCISCO     | 100.8                              | 87.7        | 29.1                               | 25.9        | 19.4                               | 19.3       |
| SAN JOAQUIN       | 106.6                              | 102.1       | 29.0                               | 32.1        | 11.0                               | 11.6       |
| SAN LUIS OBISPO   | 91.9                               | 88.3        | 22.7                               | 21.2        | 8.6                                | 9.6        |
| SAN MATEO         | 79.7                               | 73.4        | 28.5                               | 26.9        | 6.5                                | 5.8        |
| SANTA BARBARA     | 83.5                               | 78.3        | 23.2                               | 24.5        | 8.1                                | 10.3       |
| SANTA CLARA       | 84.3                               | 79.4        | 23.5                               | 24.4        | 4.9                                | 4.5        |
| SANTA CRUZ        | 87.1                               | 74.7        | 23.3                               | 25.3        | 7.6                                | 8.6        |
| SHASTA            | 93.3                               | 90.6        | 26.8                               | 23.1        | 7.6                                | 7.7 *      |
| SIERRA            | 65.6 ^                             | 48.4 *      | 22.3 ^                             | 12.9 *      | 0.0 +                              | 7.8 *      |
| SISKIYOU          | 99.3                               | 85.9        | 18.9                               | 27.8        | 2.6 ^                              | 0.7 *      |
| SOLANO            | 87.7                               | 90.1        | 34.4                               | 34.8        | 5.1                                | 5.1        |
| SONOMA            | 84.6                               | 80.3        | 26.8                               | 29.2        | 7.6                                | 9.3        |
| STANISLAUS        | 101.6                              | 114.0       | 25.2                               | 27.0        | 8.9                                | 9.6        |
| SUTTER            | 87.1                               | 92.0        | 31.9                               | 32.0        | 3.4 ^                              | 2.3 *      |
| TEHAMA            | 86.9                               | 85.8        | 21.5                               | 34.6        | 5.0 ^                              | 4.4 *      |
| TRINITY           | 92.2                               | 72.2 *      | 19.9 ^                             | 31.3 *      | 7.4 ^                              | 4.1 *      |
| TULARE            | 110.7                              | 110.5       | 29.0                               | 32.4        | 6.1                                | 9.8        |
| TUOLUMNE          | 82.6                               | 77.2        | 20.2                               | 27.3        | 7.5 ^                              | 6.4 *      |
| VENTURA           | 83.5                               | 79.2        | 23.8                               | 23.9        | 6.8                                | 7.1        |
| YOLO              | 93.1                               | 81.2        | 26.4                               | 27.7        | 7.5                                | 5.4 *      |
| YUBA              | 117.5                              | 117.0       | 28.7                               | 31.3        | 8.0 ^                              | 5.2 *      |

**TABLE 22 (continued)**  
**A COMPARISON OF THREE-YEAR AVERAGE RATES AND PERCENTAGES**  
**AMONG SELECTED HEALTH STATUS INDICATORS**  
**CALIFORNIA COUNTIES**

| COUNTY            | MORBIDITY RATE   |             | MORTALITY RATE  |            | PERCENT  |            |
|-------------------|--|-------------|---|------------|--|------------|
|                   | REPORTED INCIDENCE OF AIDS<br>(THREE-YEAR AVERAGES) <sup>2</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> |            |
|                   | 1992-1994  | 1995-1997   | 1990-1992   | 1993-1995  | 1992-1994  | 1995-1997  |
| <b>CALIFORNIA</b> | <b>34.3</b>  | <b>22.1</b> | <b>7.5</b>  | <b>6.8</b> | <b>6.0</b>   | <b>6.1</b> |
| ALAMEDA           | 40.5   | 27.7        | 7.9   | 6.1        | 7.2  | 6.9        |
| ALPINE            | 0.0 +  | 0.0 +       | 0.0 +   | 0.0 +      | 0.0 +  | 0.0 +      |
| AMADOR            | 7.1 ^  | 18.2 *      | 7.7 ^   | 5.0 *      | 3.7 ^  | 4.9 *      |
| BUTTE             | 8.6  | 4.6 *       | 7.0   | 9.1        | 5.5  | 4.9        |
| CALAVERAS         | 0.0 +  | 4.5 *       | 6.8 ^   | 14.3 *     | 5.3  | 5.8        |
| COLUSA            | 7.6 ^  | 5.5 *       | 5.4 ^   | 8.2 *      | 4.2  | 5.5 *      |
| CONTRA COSTA      | 26.4   | 15.8        | 6.2   | 5.9        | 6.2  | 6.2        |
| DEL NORTE         | 14.0 ^   | 4.8 *       | 7.9 ^   | 12.9 *     | 4.6  | 5.5 *      |
| EL DORADO         | 12.1   | 4.8 *       | 7.0   | 5.7 *      | 5.7  | 6.2        |
| FRESNO            | 16.3   | 12.1        | 9.4   | 8.5        | 6.8  | 6.6        |
| GLENN             | 0.0 +  | 3.7 *       | 9.0 ^   | 3.8 *      | 4.7  | 4.1 *      |
| HUMBOLDT          | 19.0   | 7.7 *       | 8.1   | 10.3 *     | 4.7  | 4.6        |
| IMPERIAL          | 6.6 ^  | 7.1 *       | 5.9   | 5.6 *      | 5.2  | 4.7        |
| INYO              | 0.0 +  | 7.3 *       | 16.5 ^  | 9.1 *      | 6.5  | 6.8 *      |
| KERN              | 15.3   | 15.3        | 10.0  | 11.0       | 6.7  | 6.4        |
| KINGS             | 12.7   | 15.0 *      | 9.0   | 8.4 *      | 6.1  | 5.9        |
| LAKE              | 18.4 ^   | 15.8 *      | 9.5 ^   | 7.1 *      | 5.3  | 5.7        |
| LASSEN            | 6.8 ^  | 21.5 *      | 6.1 ^   | 7.6 *      | 4.2  | 4.7 *      |
| LOS ANGELES       | 39.5   | 27.4        | 7.7   | 7.0        | 6.2  | 6.4        |
| MADERA            | 11.2   | 6.3 *       | 4.5 ^   | 7.9 *      | 5.3  | 5.3        |
| MARIN             | 67.5   | 38.3        | 4.5   | 4.5 *      | 5.2  | 5.4        |
| MARIPOSA          | 6.2 ^  | 6.3 *       | 0.0 +   | 2.0 *      | 5.4 ^  | 6.1 *      |
| MENDOCINO         | 21.0   | 9.8 *       | 6.2 ^   | 9.5 *      | 5.8  | 5.1        |
| MERCED            | 6.1  | 5.2 *       | 7.9   | 7.6        | 5.5  | 6.1        |
| MODOC             | 0.0 +  | 0.0 +       | 12.0 ^  | 8.0 *      | 7.8 ^  | 5.7 *      |
| MONO              | 0.0 +  | 3.2 *       | 0.0 +   | 2.5 *      | 7.3 ^  | 7.0 *      |
| MONTEREY          | 21.3   | 15.9        | 6.4   | 6.2        | 5.4  | 5.2        |
| NAPA              | 13.6   | 8.4 *       | 4.2 ^   | 6.0 *      | 4.3  | 4.2        |
| NEVADA            | 10.1 ^   | 9.2 *       | 7.2 ^   | 5.1 *      | 4.2  | 5.4        |
| ORANGE            | 19.9   | 13.4        | 6.4   | 5.8        | 5.2  | 5.3        |
| PLACER            | 3.4 ^  | 4.0 *       | 5.0   | 6.1 *      | 4.9  | 4.9        |
| PLUMAS            | 0.0 +  | 3.3 *       | 10.4 ^  | 10.7 *     | 5.4 ^  | 4.9 *      |
| RIVERSIDE         | 26.5   | 18.4        | 8.7   | 7.8        | 6.2  | 6.1        |
| SACRAMENTO        | 26.2   | 14.9        | 8.3   | 7.7        | 6.5  | 6.5        |
| SAN BENITO        | 7.3 ^  | 4.5 *       | 9.0 ^   | 4.3 *      | 6.0  | 4.6        |
| SAN BERNARDINO    | 19.1   | 11.6        | 9.2   | 8.0        | 6.6  | 6.7        |
| SAN DIEGO         | 36.3   | 27.0        | 7.0   | 6.0        | 5.9  | 5.7        |
| SAN FRANCISCO     | 291.1  | 144.0       | 7.3   | 5.8        | 6.7  | 6.8        |
| SAN JOAQUIN       | 14.3   | 9.7         | 8.7   | 7.2        | 6.6  | 6.5        |
| SAN LUIS OBISPO   | 21.2   | 17.2        | 6.5   | 6.4 *      | 4.8  | 5.1        |
| SAN MATEO         | 28.1   | 12.7        | 5.8   | 4.2        | 5.5  | 5.8        |
| SANTA BARBARA     | 17.2   | 10.0        | 6.1   | 6.2        | 5.2  | 5.9        |
| SANTA CLARA       | 21.2   | 12.3        | 6.1   | 5.6        | 5.5  | 6.0        |
| SANTA CRUZ        | 20.6   | 11.9        | 5.4   | 6.0        | 4.8  | 4.7        |
| SHASTA            | 4.1 ^  | 3.3 *       | 8.7   | 7.3 *      | 5.1  | 5.1        |
| SIERRA            | 0.0 +  | 0.0 +       | 0.0 +   | 0.0 +      | 4.8 ^  | 0.0 +      |
| SISKIYOU          | 0.0 +  | 8.3 *       | 10.0 ^  | 5.5 *      | 4.2  | 6.3        |
| SOLANO            | 30.3   | 22.4        | 7.4   | 7.2        | 6.5  | 6.3        |
| SONOMA            | 40.4   | 21.7        | 5.8   | 5.3        | 4.8  | 5.3        |
| STANISLAUS        | 13.6   | 8.2         | 8.0   | 6.7        | 6.2  | 6.2        |
| SUTTER            | 6.9 ^  | 6.7 *       | 5.9 ^   | 6.8 *      | 5.9  | 5.7        |
| TEHAMA            | 6.8 ^  | 1.2 *       | 8.9 ^   | 7.4 *      | 4.6  | 5.5        |
| TRINITY           | 7.4 ^  | 5.0 *       | 14.5 ^  | 7.9 *      | 5.3 ^  | 5.9 *      |
| TULARE            | 7.8  | 4.4 *       | 6.9   | 6.3        | 5.7  | 5.5        |
| TUOLUMNE          | 10.1 ^   | 7.1 *       | 8.4 ^   | 5.6 *      | 7.9  | 5.3        |
| VENTURA           | 10.9   | 9.0         | 6.8   | 5.1        | 5.6  | 5.5        |
| YOLO              | 9.8  | 7.2 *       | 8.6   | 7.0 *      | 5.6  | 5.5        |
| YUBA              | 9.5 ^  | 5.0 *       | 8.4   | 7.6 *      | 6.2  | 6.3        |

<sup>1</sup> Age-adjusted death rates are per 100,000 population.

<sup>2</sup> Crude case rates are per 100,000 population.

<sup>3</sup> Birth cohort rates are per 1,000 live births.

<sup>4</sup> Low birthweight infant percentages are per 100 live births.

\* Rate or percent unreliable; relative standard error greater than or equal to 23%.

^ Rate or percent unreliable; relative standard error greater than 30%.

+ Standard error indeterminate; rate or percent based on no (zero) events.

Source: Department of Health Services, Center for Health Statistics: Birth and Death Statistical Master Files, 1992-1997; and Birth Cohort Files, 1990-1995.

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

Department of Finance: Intercensal Estimates of California Population, 1993; 1996 Race/Ethnic Population by County with Age and Sex Detail, January 1998.



# 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 1995 through 1997, and from the linked births-deaths in the Birth Cohort-Perinatal Outcome Files for the years 1993 through 1995, 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, and primary and secondary syphilis. Incidence data of diagnosed AIDS cases were provided by the California Department of Health Services, Office of AIDS, AIDS Reporting System.

The California Department of Finance, Demographic Research Unit and Census Data Center, provided the population data. The 1996 population data used in this report were the Race/Ethnic Population by County with Age and Sex Detail, January 1998. 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 1-12): 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):

|           |                                |   |
|-----------|--------------------------------|---|
| Table 1:  | All Causes of Death.....       | 001 - E999  |
| Table 2:  | Motor Vehicle Crashes .....    | E810 - E825   |
| Table 3:  | Unintentional Injuries .....   | E800 - E949   |
| Table 4:  | Firearm – related Deaths ..... | E922.0 - E922.3,<br>E922.8 - E922.9,<br>E955.0 - E955.4,<br>E965.0 - E965.4, E970,<br>E985.0 - E985.4 |
| Table 5:  | Homicides .....                | E960 - E969   |
| Table 6:  | Suicides .....                 | E950 - E959   |
| Table 7:  | All Cancers.....               | 140 - 208   |
| Table 8:  | Lung Cancer .....              | 162.2 - 162.9   |
| Table 9:  | Female Breast Cancer .....     | 174   |
| Table 10: | Coronary Heart Disease .....   | 402, 410 - 414, 429.2   |
| Table 11: | Cerebrovascular Disease.....   | 430 - 438   |
| Table 12: | Drug-Related Deaths.....       | 292, 304, 305.2 - 305.9,<br>E850 - E858, E950.0 -<br>E950.5, E962.0, E980.0 -<br>E980.5               |

The cardiovascular disease health indicator has been divided into coronary heart disease and cerebrovascular disease (stroke), because Year 2000 National Health Objectives have been separately established for these two diagnostic groups.

**Morbidity** (Tables 13-16): 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 which meet a series of clinical criteria.

The original case definition for Acquired Immune Deficiency 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, 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 17A-17E): 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 17A-17E): 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 1996 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 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 non-Hispanic. This composition is somewhat different from the Asian/Pacific Islander category specified by USPHS in **Healthy People 2000**, 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.

**Nativity** (Tables 18-20B): The nativity data were obtained from the Birth Statistical Master Files from 1995 through 1997. Records with unknown birthweight were excluded from the average number of live births shown in Table 18, and records with unknown prenatal care were excluded from the average number of live births shown in Table 20A.

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 past **Profiles** reports, the Kessner Index was used to measure the adequacy of prenatal care. The Kessner Index was replaced this year 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 Kottelchuck 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 20B 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 Kottelchuck listed in the Bibliography.

**Childhood Poverty** (Table 21): 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. This indicator was modified from that specified in **Healthy People 2000**, which targeted children under 15 years of age, because the Census Bureau produces standard tabulations only for age groups under 18, and not under 15 years of age.

## **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 mortality data; 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.

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 2000 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 1940 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. 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 crude death rates, which include the effect of age, show the actual risk of dying in the population.

The 1940 U.S. population was used as the "standard population", in this report, because the national objectives in *Healthy People 2000* are based on the 1940 U.S. population. The use of an agreed upon standard population permits direct comparison with both national data and the Year 2000 objectives.

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 145 persons in the course of a year. (See Table 1: Deaths Due to All Causes, which shows 688.0 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 death rates on three-year average number

of vital events (e.g. 1995-1997), divided by the population in the middle year (e.g. 1996). 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 death 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 a " \* " (asterisk). The National Center for Health Statistics assigns 23% as the reliability cut-off in its publications of rates and percents. In addition, rates of zero, based on no death 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 five 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 20B), 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 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

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

$$ADR = \sum W_a \left( \frac{nD_a}{N_{pop_a}} \right) \times B$$

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

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

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

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

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

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

Where:

- CDR = Crude Death Rate
- ADR = Age-Adjusted Death Rate
- ASDR = Age-Specific Death Rate
- $nD$  = Number of Deaths
- $N_{pop}$  = Population Size
- $nD_a$  = Number of Deaths in an Age Group
- $N_{pop_a}$  = Population Size in Same Age Group
- B = Base (100,000)
- $W_a$  = Age-Specific Weight (Standard Population Proportion)
- $SE_x$  = Standard Error of a Crude Death Rate
- $RSE_x$  = Relative Standard Error of a Crude Death Rate
- $SE_y$  = Standard Error of an Age-Adjusted Death Rate
- $RSE_y$  = Relative Standard Error of an Age-Adjusted Death Rate
- CL = Confidence Limit



- STEP 1:** *Array the data of three-year average number of deaths and population for eleven 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 1940 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 454.8 per 100,000 population.*
- STEP 5:** *Repeat Steps 1 through 4 for each county and the statewide total. Note that the 1940 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.*



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