



COUNTY HEALTH STATUS PROFILES 2016

CALIFORNIA DEPARTMENT OF PUBLIC HEALTH AND
CALIFORNIA CONFERENCE OF LOCAL HEALTH OFFICERS
NATIONAL PUBLIC HEALTH WEEK, APRIL 4-10, 2016

COUNTY HEALTH STATUS PROFILES 2016

California Department of Public Health
Center for Health Statistics and Informatics
Jim Greene, MD, MS, Deputy Director

California Department of Public Health
Public Health Policy and Research Branch
Ellen Badley, MHA, Chief

California Department of Public Health
Assessment and Policy Section
Michelle Miles, Chief

California Department of Public Health
Data Analysis Reporting Unit
Michelle Adams, MPPA, Chief

In collaboration with
California Conference of Local Health Officers
Janet Berreman, MD, MPH, President



EDMUND G. BROWN JR.
GOVERNOR
State of California

Diana S. Dooley
Secretary
California Health and Human Services Agency

Karen L. Smith, MD, MPH
Director & State Public Health Officer
California Department of Public Health

ACKNOWLEDGMENTS

Steve Sottana, Research Program Specialist I with the California Department of Public Health (CDPH), Public Health Policy and Research Branch, Assessment and Policy Section, Data Analysis Reporting Unit prepared this report.

John Rudzinkas, MBA, Research Program Specialist I with the CDPH, Public Health Policy and Research Branch, Assessment and Policy Section, Data Analysis Reporting Unit independently peer reviewed the tables and thematic maps.

Scott Fujimoto, MD, MPH, with the CDPH, Public Health Policy and Research Branch, was an advisor and evaluator of the data analysis.

Bill Schooling, with the Department of Finance provided the 2013 race/ethnic population estimates by county with age and sex detail.

Michael Curtis, PhD and **Carina Saraiva, MPH**, with the CDPH, Maternal, Child and Adolescent Health Program provided direction in accessing the most current breastfeeding information.

Denise Gilson, with the CDPH, Sexually Transmitted Disease Control Branch provided chlamydia and gonorrhea case incidence data.

Saul Kanowitz, MPH, with the CDPH, Tuberculosis Control Branch provided tuberculosis case incidence data.

Valorie Eckert, MPH, with the CDPH, Office of AIDS provided AIDS case incidence data.

Jan Christensen, with the CDPH, Public Health Policy and Research Branch, Health Information and Research Section, Data Quality Management Unit matched the birth and infant death records from the Birth and Death Statistical Master Files to create the Birth Cohort-Perinatal Outcome Files of linked births and deaths.

Daniel Cox, with the CDPH, Information Technology Services Division, Application Development and Support Branch, Health and Administrative Support Section prepared the Web page and data links for the Internet version of the report and county summary tables.

Thank you to Elaine Bilot, MS, MA, former Chief of Data Analysis Reporting Unit, recently retired, who guided the compilation and publication of Profiles 2009 – Profiles 2015 and has set a standard of excellence.

Center for Health Statistics and Informatics staff, who collected, coded, and edited birth and death certificates, the basis of the Birth and the Death Statistical Master Files.

Cover photography by **John Rudzinkas**. Emerald Bay, Lake Tahoe.



KAREN L. SMITH, MD, MPH
Director and State Public Health Officer

State of California—Health and Human Services Agency
California Department of Public Health



EDMUND G. BROWN JR.
Governor

Dear Colleague:

We are pleased to present California's **County Health Status Profiles 2016 (Profiles)**. This report contains selected health status indicators that are recommended by the U.S. Department of Health and Human Services for monitoring state and local progress toward achieving the goals set forth in *Healthy People 2020 (HP 2020)*. These indicators are based on significant and readily available data to help guide the course of health promotion and preventive services.

The *HP 2020 National Objectives* challenge public health professionals to increase the span of high quality healthy lives, achieve health equity, and encourage quality of life healthy behaviors for all. This report is an important tool to measure progress toward those goals and to evaluate the health of Californians.

Profiles 2016 includes data years 2008-2014 and is updated each year and amended according to priorities developed by CDPH and the California Conference of Local Health Officers.

Karen L. Smith, MD, MPH
Director & State Public Health Officer
California Department of Public Health

Janet Berreman, MD, MPH
President
California Conference of
Local Health Officers



TABLE OF CONTENTS

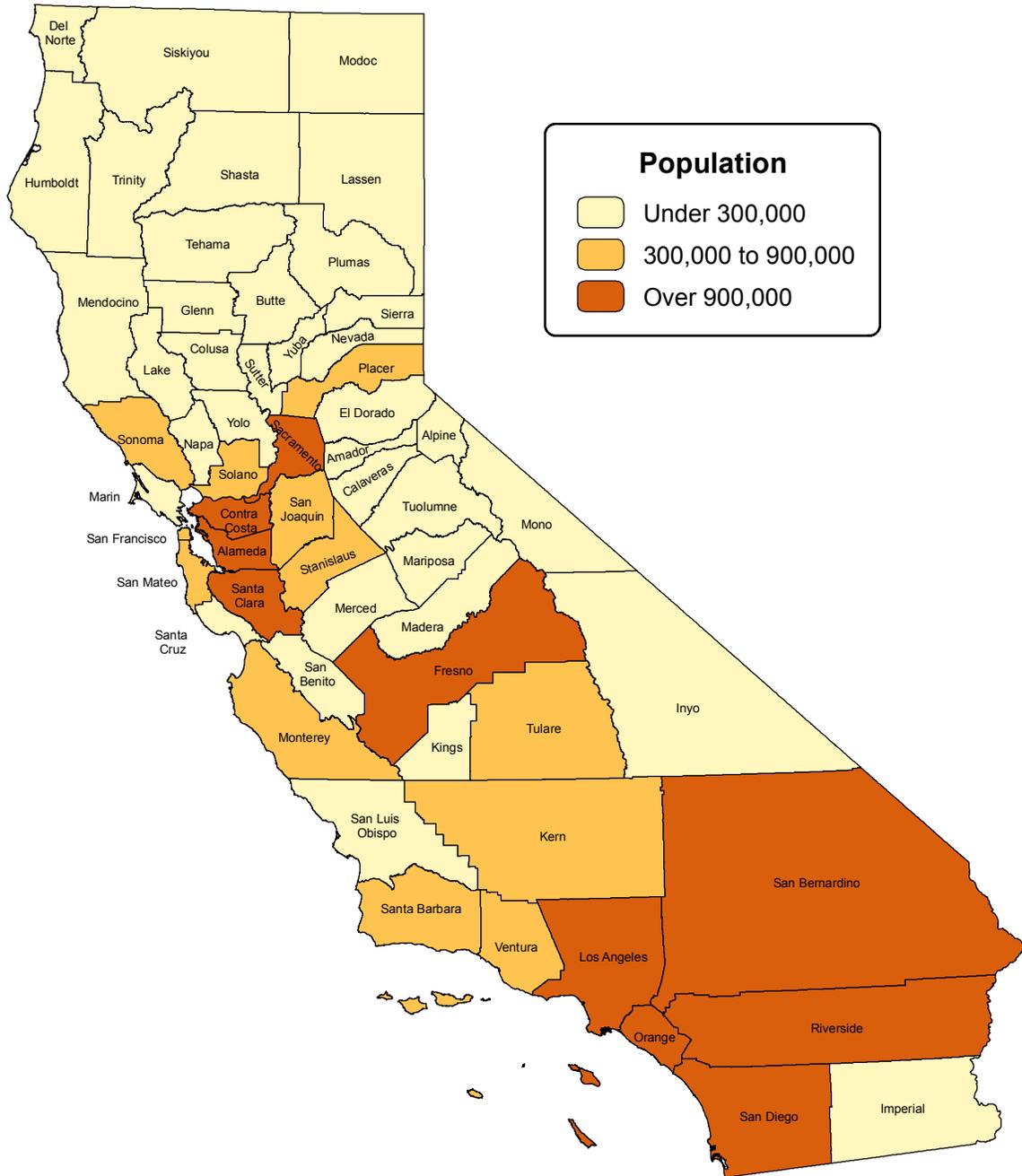
| | | |
|------------------------------|--|-------|
| INTRODUCTION..... | | 1-2 |
| TABLES WITH HIGHLIGHTS | | 3-82 |
| <u>TABLES</u> | <u>HEALTH STATUS INDICATORS</u> | |
| 1 – 19 | MORTALITY INDICATORS PER 100,000 POPULATION | |
| 1 | All Causes of Death | 3-4 |
| 2 | All Cancer Deaths | 5-6 |
| 3 | Colorectal Cancer | 7-8 |
| 4 | Lung Cancer | 9-10 |
| 5 | Female Breast Cancer | 11-12 |
| 6 | Prostate Cancer | 13-14 |
| 7 | Diabetes | 15-16 |
| 8 | Alzheimer's Disease..... | 17-18 |
| 9 | Coronary Heart Disease..... | 19-20 |
| 10 | Cerebrovascular Disease (Stroke)..... | 21-22 |
| 11 | Influenza/Pneumonia | 23-24 |
| 12 | Chronic Lower Respiratory Disease | 25-26 |
| 13 | Chronic Liver Disease and Cirrhosis..... | 27-28 |
| 14 | Accidents (Unintentional Injuries) | 29-30 |
| 15 | Motor Vehicle Traffic Crashes..... | 31-32 |
| 16 | Suicide..... | 33-34 |
| 17 | Homicide..... | 35-36 |
| 18 | Firearm-Related Deaths..... | 37-38 |
| 19 | Drug-Induced Deaths | 39-40 |
| 20 – 23 | MORBIDITY INDICATORS PER 100,000 POPULATION | |
| 20 | Acquired Immunodeficiency Syndrome (AIDS)..... | 41-42 |
| 21 | Chlamydia | 43-44 |
| 22F | Gonorrhea Females 15 To 44 Years Old..... | 45-46 |
| 22M | Gonorrhea Males 15 To 44 Years Old | 47-48 |
| 23 | Tuberculosis | 49-50 |
| 24A – 24E | BIRTH COHORT INFANT MORTALITY UNDER ONE YEAR OF AGE PER 1,000 LIVE BIRTHS | |
| 24A | Infant Mortality, All Race/Ethnic Groups | 51-52 |
| 24B | Asian/Pacific Islander Infant Mortality | 53-54 |
| 24C | Black Infant Mortality | 55-56 |
| 24D | Hispanic Infant Mortality..... | 57-58 |
| 24E | White Infant Mortality | 59-60 |

TABLE OF CONTENTS (continued)

| <u>TABLES</u> | <u>HEALTH STATUS INDICATORS</u> | |
|---------------|--|-------|
| 25 – 27B | NATALITY INDICATORS PER 100 LIVE BIRTHS OR 1,000 POPULATION | |
| 25 | Low Birthweight Infants | 61-62 |
| 26 | Births to Adolescent Mothers, 15-19 Years Old per 1,000 Live Births | 63-64 |
| 27A | Prenatal Care Begun During the First Trimester | 65-66 |
| 27B | Adequate/Adequate Plus Prenatal Care | 67-68 |
| | BREASTFEEDING INITIATION RATES PER 100 LIVE BIRTHS | |
| 28 | Breastfeeding Initiation During Early Postpartum | 69-70 |
| | 2013 CENSUS POPULATION HEALTH INDICATOR | |
| 29 | Persons Under 18 In Poverty | 71-72 |
| | CURRENT AND PRIOR THREE-YEAR AVERAGE RATES AND PERCENTAGES BY COUNTY | |
| 30 | A Comparison of Three-Year Average Rates and Percentages Among Selected Health Status Indicators | 73-82 |
| | TECHNICAL NOTES | 83-93 |
| | APPENDIX A | |
| | California's Health Status Profile 2016 | 94 |
| | BIBLIOGRAPHY | 95-96 |

CALIFORNIA COUNTIES

2013 STATEWIDE POPULATION: 38,202,206



State of California, Department of Finance, Report P-3: State and County Population Projections by Race/Ethnicity, Detailed Age, and Gender, 2010-2060. Sacramento, California, December 2014.

INTRODUCTION

County Health Status Profiles 2016 (Profiles 2016) has been published annually for the State of California since 1993. This report presents public health data that can be directly compared with clearly established benchmarks, such as national standards, and populations of similar composition. Appendix A (page 94) provides a summary table of California's rates for selected health status indicators, target rates established for Healthy People 2020 (HP 2020) National Objectives and the previous period rates.

In keeping with the goal of using national standards, causes of death were coded using the International Classification of Diseases, Tenth Revision (ICD-10) and age-adjusted rates were calculated using the year 2000 standard population weights to facilitate meaningful comparison of vital statistics data rates over time and between groups. For additional information on the HP 2020 recommendations, visit the [Centers for Disease Control and Prevention](#).

Profiles 2016 contains vital statistics and morbidity tables that show the population, number of events, crude rates, and age-adjusted death rates or percentages by county of residence (except where noted). In these tables, counties are ranked by rates or percentages based on the methodology described in the Technical Notes section (pages 83 to 93). Data limitations and qualifications are provided in the Technical Notes to assist the reader with interpretation and comparison of these data. For those who want to learn more about the challenges 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.

The tables also identify upper and lower 95 percent confidence intervals, which provide a means to assess the degree of stability for the estimated rates and percentages. Confidence intervals based on 100 or more events are calculated utilizing a normal distribution. In cases where more than zero but fewer than 100 events occurs, a gamma distribution is applied to approximate upper and lower 95 percent confidence intervals and to prevent producing a negative lower confidence interval. For additional information on the use of gamma distributions, please see [National Vital Statistics Report, Volume 63, No. 9, August 31, 2015](#). Vital statistics rates and percentages are subject to random variation, which is inversely related to the number of events (e.g., deaths) used to calculate the rates and percentages. Rates calculated from fewer than 20 events are considered unreliable and are indicated with an asterisk (*). Dashes (-) indicate that percentages and confidence limits are not calculated due to zero events. Thematic maps of California's 58 counties provide added visual comparison of rates or percentages from each table (excluding Table 30) along with the customary health status indicator highlights.

The race/ethnicity population figures by county with age and sex detail were provided by the Demographic Research Unit, California Department of Finance, and were utilized as denominators for the rate calculations. Rates developed for the current period (2012-2014) and previous period (2009-2011) used 2013 and 2010 population estimates, respectively, from the *State of California, Department of Finance, Report P-3: State and County Population Projections by Race/Ethnicity, Detailed Age, and Gender, 2010-2060. Sacramento, California, December 2014.*

The following California Department of Public Health (CDPH) offices provided data for this report: Vital Records, Communicable Disease Control, Genetic Disease Screening Program, Maternal, Child and Adolescent Health Program, and the Office of AIDS. The estimates of persons under age 18 in poverty for 2013 were obtained from the [U.S. Census Bureau](#).

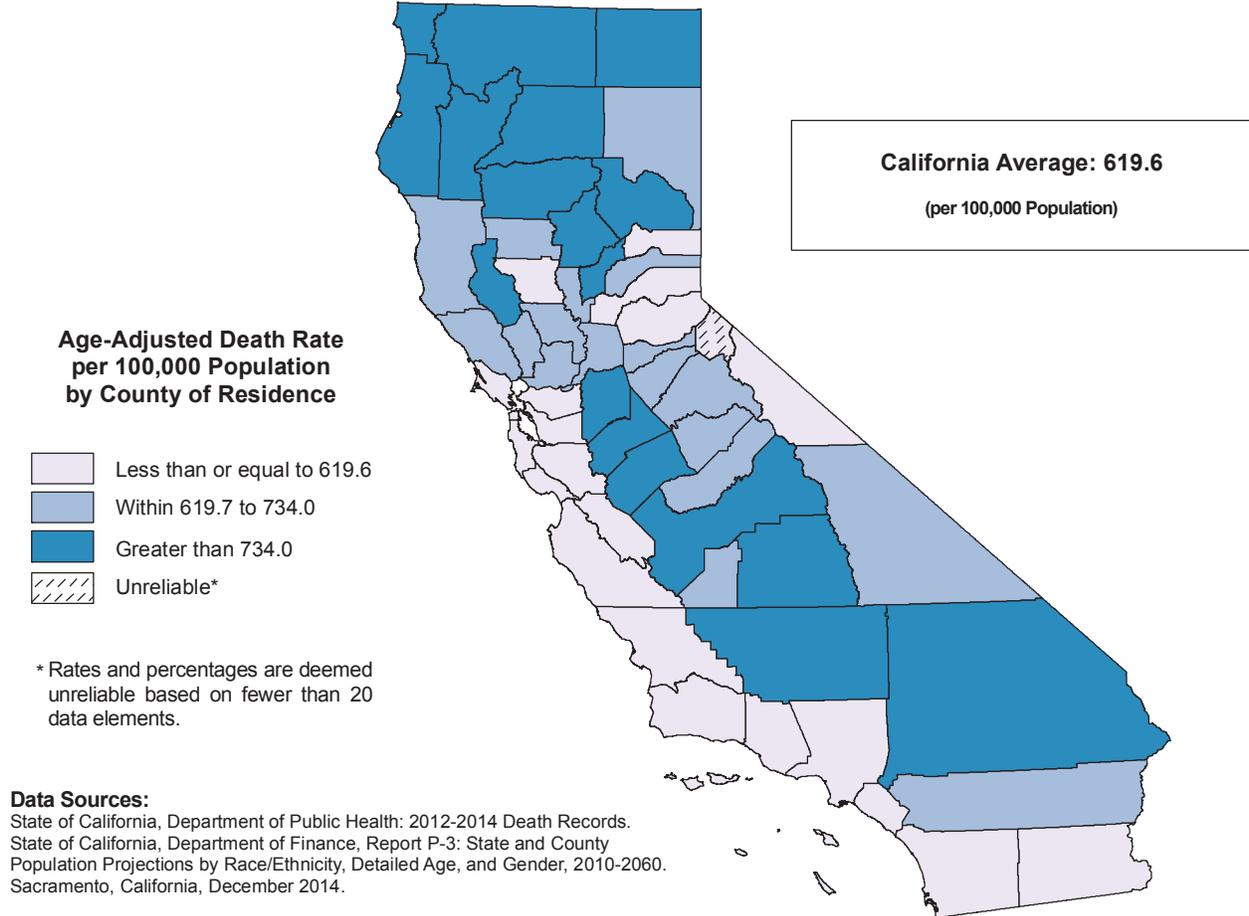
To access electronic copies of this report, visit the [CDPH, Center for Health Statistics and Informatics, Public Health Policy and Research Branch site](#).

If you have questions about this report, or desire additional state or county health status data and statistics please write, phone, or e-mail:

California Department of Public Health
Center for Health Statistics and Informatics
Public Health Policy and Research Branch
MS 5101
P.O. Box 997410
Sacramento, CA 95899-7410
Telephone (916) 552-8095
Fax (916) 650-6889
Email DAReports@cdph.ca.gov

Profiles for the years 1999 through 2015 are available on the [CDPH website](#). Paper copies of the 1993 through 2006 reports may be purchased for \$10 by contacting the Public Health Policy and Research Branch at the above address or phone number.

DEATHS DUE TO ALL CAUSES, 2012-2014



The crude death rate from deaths due to all causes for California was 642.5 deaths per 100,000 population, a risk of dying equivalent to approximately one death for every 155.6 persons. The crude death rate for California was based on a 2012 through 2014 three-year average number of deaths equaling 245,451.0 and a population count of 38,202,206 as of July 1, 2013. Among counties with reliable rates, the crude death rate ranged from 1,266.8 in Lake County to 375.6 in Mono County, a factor of 3.4 to 1.

The age-adjusted death rate from deaths due to all causes for California during the 2012 through 2014 three-year period was 619.6 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 918.6 in Lake County to 408.8 in Mono County.

A Healthy People 2020 National Objective for deaths due to all causes has not been established.

The California age-adjusted death rate from deaths due to all causes for the 2009-2011 period was 643.2 per 100,000 population.

**TABLE 1
DEATHS DUE TO ALL CAUSES
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE
CALIFORNIA COUNTIES, 2012-2014**

| RANK ORDER | COUNTY OF RESIDENCE | 2013 POPULATION | 2012-2014 DEATHS (AVERAGE) | CRUDE DEATH RATE | AGE-ADJUSTED DEATH RATE | 95% CONFIDENCE LIMITS | |
|--|---------------------|-------------------|----------------------------|------------------|-------------------------|-----------------------|--------------|
| | | | | | | LOWER | UPPER |
| HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: NOT ESTABLISHED | | | | | | | |
| 1 | MONO | 14,376 | 54.0 | 375.6 | 408.8 | 307.1 | 533.4 |
| 2 | MARIN | 256,264 | 1,875.0 | 731.7 | 482.4 | 459.6 | 505.2 |
| 3 | ALPINE | 1,228 | 8.3 | 678.6 * | 483.0 * | 212.8 | 939.3 |
| 4 | SAN MATEO | 741,857 | 4,603.0 | 620.5 | 496.3 | 481.6 | 511.0 |
| 5 | SANTA CLARA | 1,850,595 | 9,519.0 | 514.4 | 498.9 | 488.7 | 509.0 |
| 6 | SAN FRANCISCO | 833,827 | 5,572.0 | 668.2 | 535.5 | 521.1 | 549.9 |
| 7 | COLUSA | 21,987 | 129.0 | 586.7 | 559.7 | 461.6 | 657.9 |
| 8 | ORANGE | 3,097,966 | 18,530.7 | 598.2 | 562.5 | 554.3 | 570.7 |
| 9 | SAN BENITO | 57,366 | 307.3 | 535.7 | 568.4 | 503.4 | 633.4 |
| 10 | MONTEREY | 424,119 | 2,429.3 | 572.8 | 575.4 | 552.1 | 598.7 |
| 11 | ALAMEDA | 1,563,370 | 9,477.0 | 606.2 | 580.5 | 568.6 | 592.4 |
| 12 | SANTA BARBARA | 433,157 | 2,977.3 | 687.4 | 584.1 | 562.5 | 605.6 |
| 13 | LOS ANGELES | 10,010,961 | 59,022.0 | 589.6 | 585.1 | 580.3 | 589.9 |
| 14 | VENTURA | 839,617 | 5,301.3 | 631.4 | 585.6 | 569.6 | 601.6 |
| 15 | PLACER | 365,125 | 2,864.7 | 784.6 | 591.2 | 569.2 | 613.2 |
| 16 | EL DORADO | 184,054 | 1,397.7 | 759.4 | 592.1 | 560.0 | 624.1 |
| 17 | CONTRA COSTA | 1,081,862 | 7,243.3 | 669.5 | 592.4 | 578.5 | 606.3 |
| 18 | SANTA CRUZ | 271,495 | 1,714.7 | 631.6 | 595.8 | 566.7 | 625.0 |
| 19 | SAN DIEGO | 3,184,072 | 20,208.0 | 634.7 | 605.3 | 596.9 | 613.8 |
| 20 | SAN LUIS OBISPO | 271,740 | 2,235.3 | 822.6 | 605.7 | 579.7 | 631.6 |
| 21 | IMPERIAL | 179,326 | 1,010.0 | 563.2 | 606.7 | 568.9 | 644.4 |
| 22 | SIERRA | 3,270 | 37.0 | 1,131.5 | 615.5 | 433.4 | 848.4 |
| | CALIFORNIA | 38,202,206 | 245,451.0 | 642.5 | 619.6 | 617.1 | 622.1 |
| 23 | NAPA | 139,831 | 1,173.0 | 838.9 | 620.8 | 584.3 | 657.3 |
| 24 | SONOMA | 493,070 | 3,928.0 | 796.6 | 625.1 | 604.9 | 645.3 |
| 25 | NEVADA | 98,317 | 1,005.0 | 1,022.2 | 629.1 | 587.4 | 670.9 |
| 26 | INYO | 19,241 | 196.3 | 1,020.4 | 640.0 | 545.8 | 734.2 |
| 27 | MARIPOSA | 18,101 | 184.3 | 1,018.4 | 642.6 | 541.4 | 743.7 |
| 28 | YOLO | 206,621 | 1,223.0 | 591.9 | 646.2 | 609.4 | 683.1 |
| 29 | RIVERSIDE | 2,264,173 | 14,947.0 | 660.2 | 647.3 | 636.8 | 657.7 |
| 30 | AMADOR | 36,945 | 428.0 | 1,158.5 | 677.7 | 609.9 | 745.6 |
| 31 | CALAVERAS | 45,214 | 494.7 | 1,094.1 | 679.7 | 615.0 | 744.4 |
| 32 | SOLANO | 424,048 | 2,989.0 | 704.9 | 684.1 | 659.2 | 709.0 |
| 33 | KINGS | 152,456 | 802.0 | 526.1 | 686.0 | 637.5 | 734.4 |
| 34 | LASSEN | 34,966 | 229.3 | 655.9 | 686.0 | 594.9 | 777.0 |
| 35 | TUOLUMNE | 54,811 | 640.0 | 1,167.6 | 699.5 | 642.2 | 756.9 |
| 36 | MADERA | 153,409 | 1,032.3 | 672.9 | 702.1 | 658.8 | 745.3 |
| 37 | SUTTER | 97,386 | 733.0 | 752.7 | 708.8 | 657.2 | 760.5 |
| 38 | SACRAMENTO | 1,448,268 | 10,648.3 | 735.2 | 724.4 | 710.5 | 738.4 |
| 39 | GLENN | 28,599 | 239.3 | 836.9 | 726.1 | 632.8 | 819.4 |
| 40 | MENDOCINO | 88,931 | 854.3 | 960.7 | 729.6 | 678.7 | 780.5 |
| 41 | MERCED | 263,441 | 1,624.0 | 616.5 | 738.3 | 702.0 | 774.7 |
| 42 | FRESNO | 958,260 | 6,406.0 | 668.5 | 740.8 | 722.4 | 759.2 |
| 43 | TULARE | 456,075 | 2,854.7 | 625.9 | 749.6 | 721.7 | 777.4 |
| 44 | TRINITY | 13,776 | 151.7 | 1,100.9 | 752.7 | 621.5 | 883.9 |
| 45 | SAN BERNARDINO | 2,075,160 | 12,749.3 | 614.4 | 754.5 | 741.1 | 767.9 |
| 46 | PLUMAS | 19,466 | 234.3 | 1,203.8 | 763.5 | 656.8 | 870.2 |
| 47 | BUTTE | 222,035 | 2,228.7 | 1,003.7 | 768.3 | 735.3 | 801.4 |
| 48 | SAN JOAQUIN | 703,790 | 5,071.3 | 720.6 | 777.6 | 755.9 | 799.3 |
| 49 | STANISLAUS | 527,232 | 3,889.3 | 737.7 | 786.5 | 761.5 | 811.5 |
| 50 | SISKIYOU | 45,215 | 544.3 | 1,203.9 | 795.9 | 724.4 | 867.3 |
| 51 | MODOC | 9,457 | 114.0 | 1,205.5 | 798.1 | 642.1 | 954.2 |
| 52 | KERN | 869,797 | 5,611.7 | 645.2 | 810.4 | 788.7 | 832.1 |
| 53 | HUMBOLDT | 136,480 | 1,302.0 | 954.0 | 833.1 | 786.6 | 879.5 |
| 54 | DEL NORTE | 28,530 | 272.3 | 954.6 | 833.2 | 732.7 | 933.7 |
| 55 | TEHAMA | 64,498 | 682.7 | 1,058.4 | 849.6 | 784.7 | 914.5 |
| 56 | YUBA | 73,600 | 561.7 | 763.1 | 857.9 | 785.8 | 930.0 |
| 57 | SHASTA | 178,591 | 2,069.3 | 1,158.7 | 860.2 | 822.1 | 898.3 |
| 58 | LAKE | 64,782 | 820.7 | 1,266.8 | 918.6 | 853.0 | 984.1 |

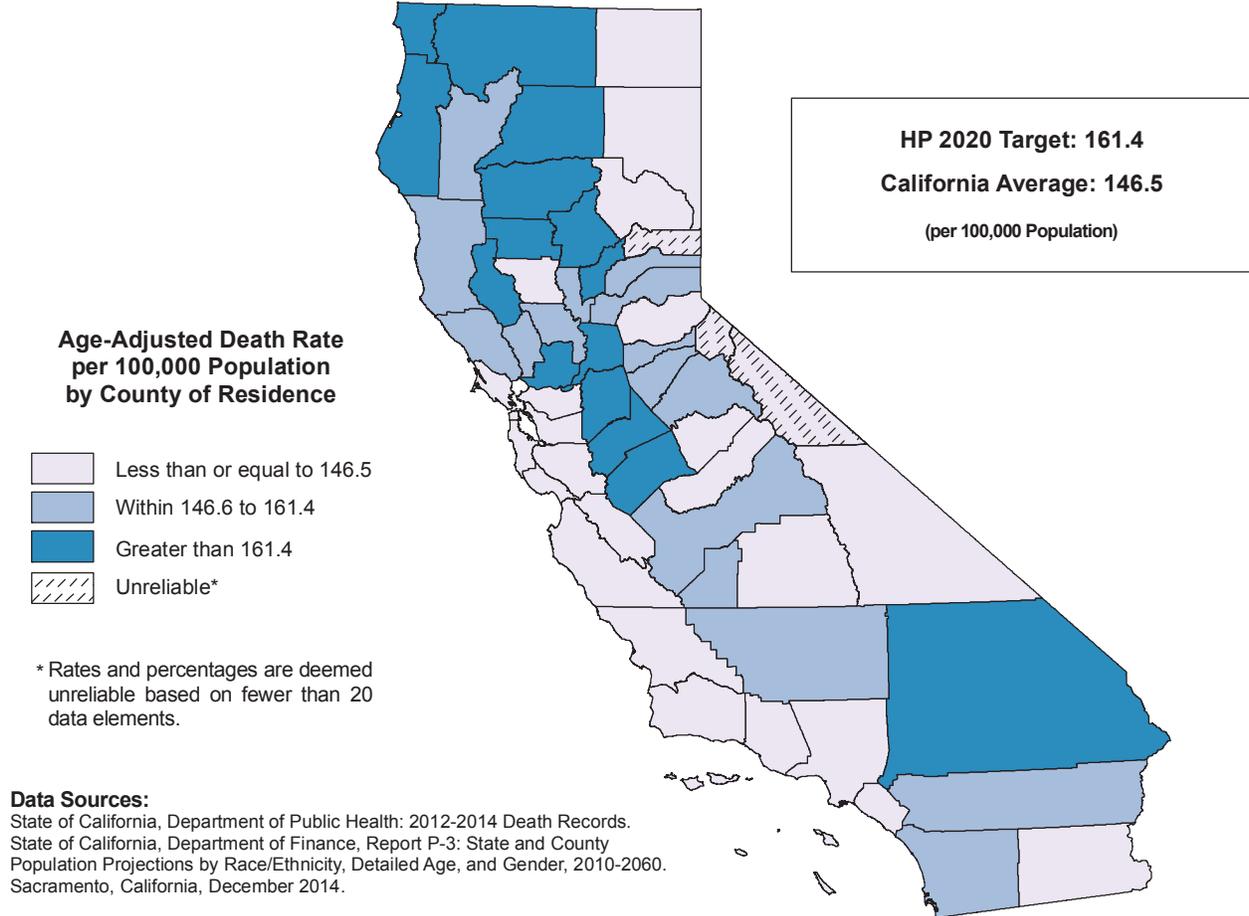
* Rates are deemed unreliable based on fewer than 20 data elements.

Note: Counties were rank ordered first by increasing age-adjusted death rate (calculated to 15 decimal places), second by decreasing population count.

Sources: State of California, Department of Public Health: 2012-2014 Death Records.

State of California, Department of Finance, Report P-3: State and County Population Projections by Race/Ethnicity, Detailed Age, and Gender, 2010-2060.
Sacramento, California, December 2014.

DEATHS DUE TO ALL CANCERS, 2012-2014



The crude death rate from cancer for California was 151.2 deaths per 100,000 population, a risk of dying from cancer equivalent to approximately one death for every 661.4 persons. The crude death rate for California was based on a 2012 through 2014 three-year average number of deaths equaling 57,763.3 and a population count of 38,202,206 as of July 1, 2013. Among counties with reliable rates, the crude death rate ranged from 287.5 in Siskiyou County to 109.6 in Lassen County, a factor of 2.6 to 1.

The age-adjusted death rate from cancer for California during the 2012 through 2014 three-year period was 146.5 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 194.4 in Tehama County to 109.4 in Lassen County.

Forty counties with reliable age-adjusted death rates and California as a whole met the Healthy People 2020 National Objective C-1 of no more than 161.4 age-adjusted deaths due to cancer per 100,000 population. An additional three counties with unreliable rates met the objective.

The California age-adjusted death rate from cancer for the 2009-2011 period was 154.6 per 100,000 population.

**TABLE 2
DEATHS DUE TO ALL CANCERS
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE
CALIFORNIA COUNTIES, 2012-2014**

| RANK ORDER | COUNTY OF RESIDENCE | 2013 POPULATION | 2012-2014 DEATHS (AVERAGE) | CRUDE DEATH RATE | AGE-ADJUSTED DEATH RATE | 95% CONFIDENCE LIMITS | | |
|------------|--|-------------------|----------------------------|------------------|-------------------------|-----------------------|--------------|--|
| | | | | | | LOWER | UPPER | |
| 1 | MONO | 14,376 | 12.0 | 83.5* | 81.0* | 41.8 | 141.5 | |
| 2 | ALPINE | 1,228 | 1.3 | 108.6* | 87.5* | 4.9 | 402.9 | |
| 3 | LASSEN | 34,966 | 38.3 | 109.6 | 109.4 | 77.5 | 149.9 | |
| 4 | COLUSA | 21,987 | 26.3 | 119.8 | 113.0 | 74.1 | 165.2 | |
| 5 | INYO | 19,241 | 37.0 | 192.3 | 120.1 | 84.5 | 165.5 | |
| 6 | MARIN | 256,264 | 466.7 | 182.1 | 121.9 | 110.5 | 133.3 | |
| 7 | IMPERIAL | 179,326 | 210.7 | 117.5 | 126.7 | 109.5 | 143.9 | |
| 8 | SANTA CLARA | 1,850,595 | 2,403.7 | 129.9 | 127.1 | 122.0 | 132.3 | |
| 9 | PLUMAS | 19,466 | 43.0 | 220.9 | 128.8 | 93.2 | 173.4 | |
| 10 | SAN MATEO | 741,857 | 1,160.3 | 156.4 | 129.1 | 121.6 | 136.7 | |
| 11 | MARIPOSA | 18,101 | 41.7 | 230.2 | 131.9 | 94.9 | 178.5 | |
| 12 | SAN BENITO | 57,366 | 73.3 | 127.8 | 133.8 | 104.9 | 168.1 | |
| 13 | SIERRA | 3,270 | 8.3 | 254.8* | 134.2* | 59.1 | 261.0 | |
| 14 | SAN FRANCISCO | 833,827 | 1,360.7 | 163.2 | 135.5 | 128.2 | 142.8 | |
| 15 | SANTA CRUZ | 271,495 | 398.7 | 146.8 | 136.3 | 122.4 | 150.2 | |
| 16 | MONTEREY | 424,119 | 561.7 | 132.4 | 137.2 | 125.7 | 148.7 | |
| 17 | EL DORADO | 184,054 | 339.0 | 184.2 | 137.5 | 122.4 | 152.6 | |
| 18 | ORANGE | 3,097,966 | 4,517.3 | 145.8 | 138.3 | 134.2 | 142.3 | |
| 19 | MADERA | 153,409 | 209.3 | 136.5 | 139.2 | 120.2 | 158.3 | |
| 20 | ALAMEDA | 1,563,370 | 2,284.7 | 146.1 | 140.5 | 134.6 | 146.3 | |
| 21 | LOS ANGELES | 10,010,961 | 14,075.0 | 140.6 | 140.8 | 138.4 | 143.1 | |
| 22 | MODOC | 9,457 | 22.3 | 236.2 | 142.1 | 89.4 | 214.5 | |
| 23 | VENTURA | 839,617 | 1,276.0 | 152.0 | 142.1 | 134.2 | 150.0 | |
| 24 | SAN LUIS OBISPO | 271,740 | 518.0 | 190.6 | 143.2 | 130.5 | 155.9 | |
| 25 | CONTRA COSTA | 1,081,862 | 1,779.0 | 164.4 | 145.6 | 138.7 | 152.5 | |
| 26 | TULARE | 456,075 | 559.0 | 122.6 | 145.7 | 133.5 | 158.0 | |
| 27 | SANTA BARBARA | 433,157 | 706.0 | 163.0 | 146.1 | 135.1 | 157.0 | |
| | CALIFORNIA | 38,202,206 | 57,763.3 | 151.2 | 146.5 | 145.3 | 147.7 | |
| 28 | PLACER | 365,125 | 710.3 | 194.5 | 147.5 | 136.5 | 158.5 | |
| 29 | FRESNO | 958,260 | 1,264.3 | 131.9 | 148.1 | 139.8 | 156.4 | |
| 30 | SUTTER | 97,386 | 157.7 | 161.9 | 148.6 | 125.3 | 172.0 | |
| 31 | NEVADA | 98,317 | 243.7 | 247.8 | 148.7 | 129.0 | 168.3 | |
| 32 | KINGS | 152,456 | 177.3 | 116.3 | 149.7 | 127.2 | 172.2 | |
| 33 | SAN DIEGO | 3,184,072 | 4,955.0 | 155.6 | 151.7 | 147.4 | 156.0 | |
| 34 | RIVERSIDE | 2,264,173 | 3,518.7 | 155.4 | 152.0 | 147.0 | 157.1 | |
| 35 | SONOMA | 493,070 | 952.0 | 193.1 | 154.4 | 144.2 | 164.5 | |
| 36 | YOLO | 206,621 | 291.7 | 141.2 | 155.5 | 137.3 | 173.7 | |
| 37 | AMADOR | 36,945 | 102.3 | 277.0 | 156.0 | 125.0 | 187.0 | |
| 38 | CALAVERAS | 45,214 | 125.3 | 277.2 | 157.9 | 128.7 | 187.1 | |
| 39 | KERN | 869,797 | 1,122.7 | 129.1 | 158.2 | 148.7 | 167.7 | |
| 40 | NAPA | 139,831 | 286.3 | 204.8 | 158.7 | 139.9 | 177.5 | |
| 41 | TRINITY | 13,776 | 35.3 | 256.5 | 159.2 | 111.1 | 221.1 | |
| 42 | TUOLUMNE | 54,811 | 150.3 | 274.3 | 159.9 | 133.4 | 186.4 | |
| 43 | MENDOCINO | 88,931 | 196.7 | 221.1 | 160.2 | 137.0 | 183.4 | |
| | HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: C-1 | | | | | 161.4 | | |
| 44 | MERCED | 263,441 | 357.7 | 135.8 | 162.2 | 145.1 | 179.2 | |
| 45 | DEL NORTE | 28,530 | 55.7 | 195.1 | 163.9 | 123.7 | 213.0 | |
| 46 | SAN BERNARDINO | 2,075,160 | 2,869.7 | 138.3 | 164.7 | 158.6 | 170.9 | |
| 47 | GLENN | 28,599 | 54.3 | 190.0 | 165.4 | 124.3 | 215.6 | |
| 48 | SACRAMENTO | 1,448,268 | 2,448.3 | 169.1 | 166.9 | 160.2 | 173.6 | |
| 49 | BUTTE | 222,035 | 480.3 | 216.3 | 168.0 | 152.5 | 183.4 | |
| 50 | SAN JOAQUIN | 703,790 | 1,111.0 | 157.9 | 170.3 | 160.1 | 180.5 | |
| 51 | HUMBOLDT | 136,480 | 274.3 | 201.0 | 170.9 | 150.1 | 191.7 | |
| 52 | YUBA | 73,600 | 117.3 | 159.4 | 172.3 | 140.6 | 204.1 | |
| 53 | STANISLAUS | 527,232 | 859.3 | 163.0 | 172.3 | 160.7 | 184.0 | |
| 54 | SOLANO | 424,048 | 791.7 | 186.7 | 175.1 | 162.6 | 187.5 | |
| 55 | SISKIYOU | 45,215 | 130.0 | 287.5 | 175.5 | 143.8 | 207.1 | |
| 56 | SHASTA | 178,591 | 447.3 | 250.5 | 178.8 | 161.9 | 195.7 | |
| 57 | LAKE | 64,782 | 184.3 | 284.5 | 193.2 | 164.5 | 222.0 | |
| 58 | TEHAMA | 64,498 | 163.0 | 252.7 | 194.4 | 164.0 | 224.7 | |

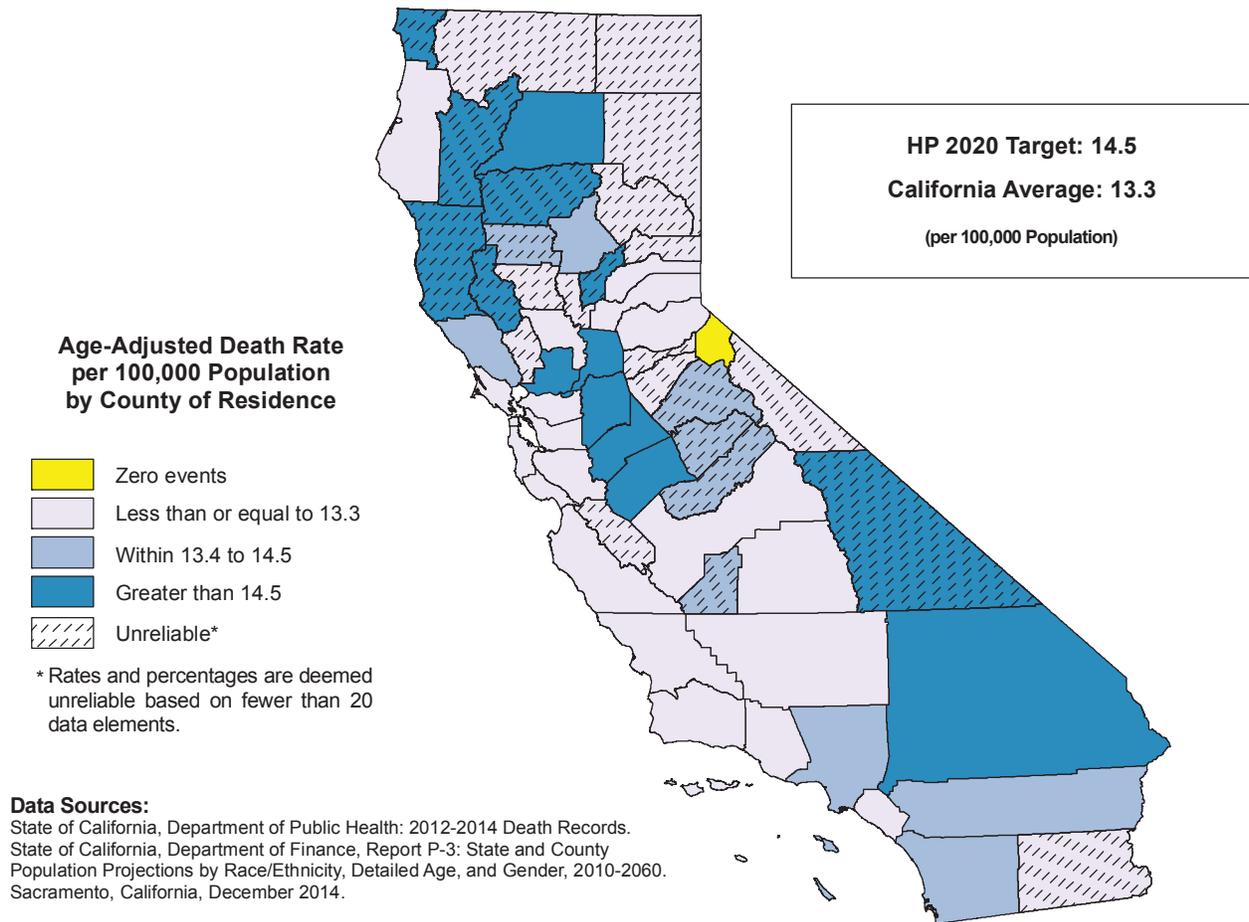
* Rates are deemed unreliable based on fewer than 20 data elements.

Note: Counties were rank ordered first by increasing age-adjusted death rate (calculated to 15 decimal places), second by decreasing population count.

Sources: State of California, Department of Public Health: 2012-2014 Death Records.

State of California, Department of Finance, Report P-3: State and County Population Projections by Race/Ethnicity, Detailed Age, and Gender, 2010-2060. Sacramento, California, December 2014.

DEATHS DUE TO COLORECTAL CANCER, 2012-2014



The crude death rate from colorectal cancer for California was 13.9 deaths per 100,000 population, a risk of dying from colorectal cancer equivalent to approximately one death for every 7,218.4 persons. The crude death rate for California was based on a 2012 through 2014 three-year average number of deaths equaling 5,292.3 and a population count of 38,202,206 as of July 1, 2013. Among counties with reliable rates, the crude death rate ranged from 21.3 in Shasta County to 9.5 in Monterey County, a factor of 2.2 to 1.

The age-adjusted death rate from colorectal cancer for California during the 2012 through 2014 three-year period was 13.3 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 17.7 in Stanislaus County to 8.2 in Marin County.

Twenty-five counties with reliable age-adjusted death rates and California as a whole met the Healthy People 2020 National Objective C-5 of no more than 14.5 age-adjusted deaths due to colorectal cancer per 100,000 population. An additional eighteen counties with unreliable rates and one county with no deaths due to colorectal cancer met the objective.

The California age-adjusted death rate from colorectal cancer for the 2009-2011 period was 14.5 per 100,000 population.

**TABLE 3
DEATHS DUE TO COLORECTAL CANCER
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE
CALIFORNIA COUNTIES, 2012-2014**

| RANK ORDER | COUNTY OF RESIDENCE | 2013 POPULATION | 2012-2014 DEATHS (AVERAGE) | CRUDE DEATH RATE | AGE-ADJUSTED DEATH RATE | 95% CONFIDENCE LIMITS | | |
|------------|--|-------------------|----------------------------|------------------|-------------------------|-----------------------|-------------|--|
| | | | | | | LOWER | UPPER | |
| 1 | ALPINE | 1,228 | 0.0 | - | - | - | - | |
| 2 | COLUSA | 21,987 | 1.3 | 6.1 * | 5.8 * | 0.3 | 26.6 | |
| 3 | SIERRA | 3,270 | 0.3 | 10.2 * | 5.9 * | 0.0 | 76.6 | |
| 4 | PLUMAS | 19,466 | 2.3 | 12.0 * | 6.8 * | 1.0 | 22.6 | |
| 5 | MARIN | 256,264 | 33.0 | 12.9 | 8.2 | 5.6 | 11.5 | |
| 6 | SUTTER | 97,386 | 8.7 | 8.9 * | 8.3 * | 3.7 | 15.9 | |
| 7 | MONO | 14,376 | 1.0 | 7.0 * | 8.4 * | 0.2 | 47.0 | |
| 8 | MODOC | 9,457 | 1.3 | 14.1 * | 8.5 * | 0.5 | 39.2 | |
| 9 | MONTEREY | 424,119 | 40.3 | 9.5 | 10.0 | 7.2 | 13.6 | |
| 10 | IMPERIAL | 179,326 | 17.0 | 9.5 * | 10.1 * | 5.9 | 16.2 | |
| 11 | PLACER | 365,125 | 52.0 | 14.2 | 10.8 | 8.1 | 14.2 | |
| 12 | SAN BENITO | 57,366 | 5.7 | 9.9 * | 10.9 * | 3.8 | 24.2 | |
| 13 | NAPA | 139,831 | 19.7 | 14.1 * | 10.9 * | 6.6 | 16.9 | |
| 14 | SANTA CLARA | 1,850,595 | 208.7 | 11.3 | 10.9 | 9.4 | 12.4 | |
| 15 | SAN MATEO | 741,857 | 101.3 | 13.7 | 11.2 | 9.0 | 13.4 | |
| 16 | LASSEN | 34,966 | 4.0 | 11.4 * | 11.5 * | 3.1 | 29.6 | |
| 17 | TULARE | 456,075 | 45.0 | 9.9 | 11.8 | 8.6 | 15.7 | |
| 18 | EL DORADO | 184,054 | 27.7 | 15.0 | 11.8 | 7.9 | 17.2 | |
| 19 | ORANGE | 3,097,966 | 397.7 | 12.8 | 11.9 | 10.7 | 13.1 | |
| 20 | SANTA CRUZ | 271,495 | 35.0 | 12.9 | 11.9 | 8.3 | 16.6 | |
| 21 | SISKIYOU | 45,215 | 8.7 | 19.2 * | 12.1 * | 5.4 | 23.3 | |
| 22 | SAN FRANCISCO | 833,827 | 126.0 | 15.1 | 12.4 | 10.2 | 14.6 | |
| 23 | YOLO | 206,621 | 22.7 | 11.0 | 12.4 | 7.9 | 18.7 | |
| 24 | ALAMEDA | 1,563,370 | 209.0 | 13.4 | 12.6 | 10.9 | 14.4 | |
| 25 | NEVADA | 98,317 | 20.7 | 21.0 | 12.7 | 7.9 | 19.5 | |
| 26 | AMADOR | 36,945 | 9.0 | 24.4 * | 12.8 * | 5.9 | 24.3 | |
| 27 | SANTA BARBARA | 433,157 | 62.3 | 14.4 | 12.8 | 9.8 | 16.4 | |
| 28 | FRESNO | 958,260 | 111.7 | 11.7 | 12.9 | 10.5 | 15.3 | |
| 29 | VENTURA | 839,617 | 115.7 | 13.8 | 12.9 | 10.5 | 15.3 | |
| 30 | SAN LUIS OBISPO | 271,740 | 48.0 | 17.7 | 12.9 | 9.5 | 17.2 | |
| 31 | HUMBOLDT | 136,480 | 20.3 | 14.9 | 13.0 | 8.0 | 20.0 | |
| 32 | KERN | 869,797 | 92.0 | 10.6 | 13.0 | 10.5 | 15.9 | |
| 33 | CONTRA COSTA | 1,081,862 | 161.0 | 14.9 | 13.0 | 11.0 | 15.1 | |
| 34 | CALAVERAS | 45,214 | 9.7 | 21.4 * | 13.1 * | 6.2 | 24.3 | |
| | CALIFORNIA | 38,202,206 | 5,292.3 | 13.9 | 13.3 | 13.0 | 13.7 | |
| 35 | MADERA | 153,409 | 19.7 | 12.8 * | 13.4 * | 8.2 | 20.8 | |
| 36 | SAN DIEGO | 3,184,072 | 445.0 | 14.0 | 13.5 | 12.2 | 14.7 | |
| 37 | SONOMA | 493,070 | 84.7 | 17.2 | 13.6 | 10.9 | 16.8 | |
| 38 | LOS ANGELES | 10,010,961 | 1,384.7 | 13.8 | 13.7 | 13.0 | 14.5 | |
| 39 | KINGS | 152,456 | 17.3 | 11.4 * | 13.8 * | 8.1 | 21.9 | |
| 40 | GLENN | 28,599 | 4.7 | 16.3 * | 13.8 * | 4.3 | 33.2 | |
| 41 | MARIPOSA | 18,101 | 4.3 | 23.9 * | 14.1 * | 4.1 | 35.0 | |
| 42 | BUTTE | 222,035 | 41.3 | 18.6 | 14.2 | 10.2 | 19.3 | |
| 43 | TUOLUMNE | 54,811 | 12.7 | 23.1 * | 14.2 * | 7.5 | 24.5 | |
| 44 | RIVERSIDE | 2,264,173 | 335.3 | 14.8 | 14.5 | 13.0 | 16.1 | |
| | HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: C-5 | | | | | 14.5 | | |
| 45 | LAKE | 64,782 | 14.3 | 22.1 * | 14.6 * | 8.0 | 24.3 | |
| 46 | MENDOCINO | 88,931 | 17.0 | 19.1 * | 14.9 * | 8.7 | 23.8 | |
| 47 | YUBA | 73,600 | 10.3 | 14.0 * | 15.0 * | 7.3 | 27.3 | |
| 48 | TRINITY | 13,776 | 3.7 | 26.6 * | 15.1 * | 3.8 | 40.1 | |
| 49 | INYO | 19,241 | 4.3 | 22.5 * | 15.5 * | 4.5 | 38.4 | |
| 50 | SACRAMENTO | 1,448,268 | 228.0 | 15.7 | 15.5 | 13.5 | 17.6 | |
| 51 | DEL NORTE | 28,530 | 5.3 | 18.7 * | 15.6 * | 5.3 | 35.5 | |
| 52 | SHASTA | 178,591 | 38.0 | 21.3 | 15.7 | 11.1 | 21.6 | |
| 53 | MERCED | 263,441 | 35.0 | 13.3 | 15.9 | 11.0 | 22.0 | |
| 54 | SAN JOAQUIN | 703,790 | 106.3 | 15.1 | 16.2 | 13.0 | 19.3 | |
| 55 | SOLANO | 424,048 | 74.0 | 17.5 | 16.4 | 12.9 | 20.6 | |
| 56 | SAN BERNARDINO | 2,075,160 | 284.7 | 13.7 | 16.6 | 14.6 | 18.6 | |
| 57 | STANISLAUS | 527,232 | 87.7 | 16.6 | 17.7 | 14.2 | 21.8 | |
| 58 | TEHAMA | 64,498 | 15.3 | 23.8 * | 18.9 * | 10.6 | 31.0 | |

* Rates are deemed unreliable based on fewer than 20 data elements.

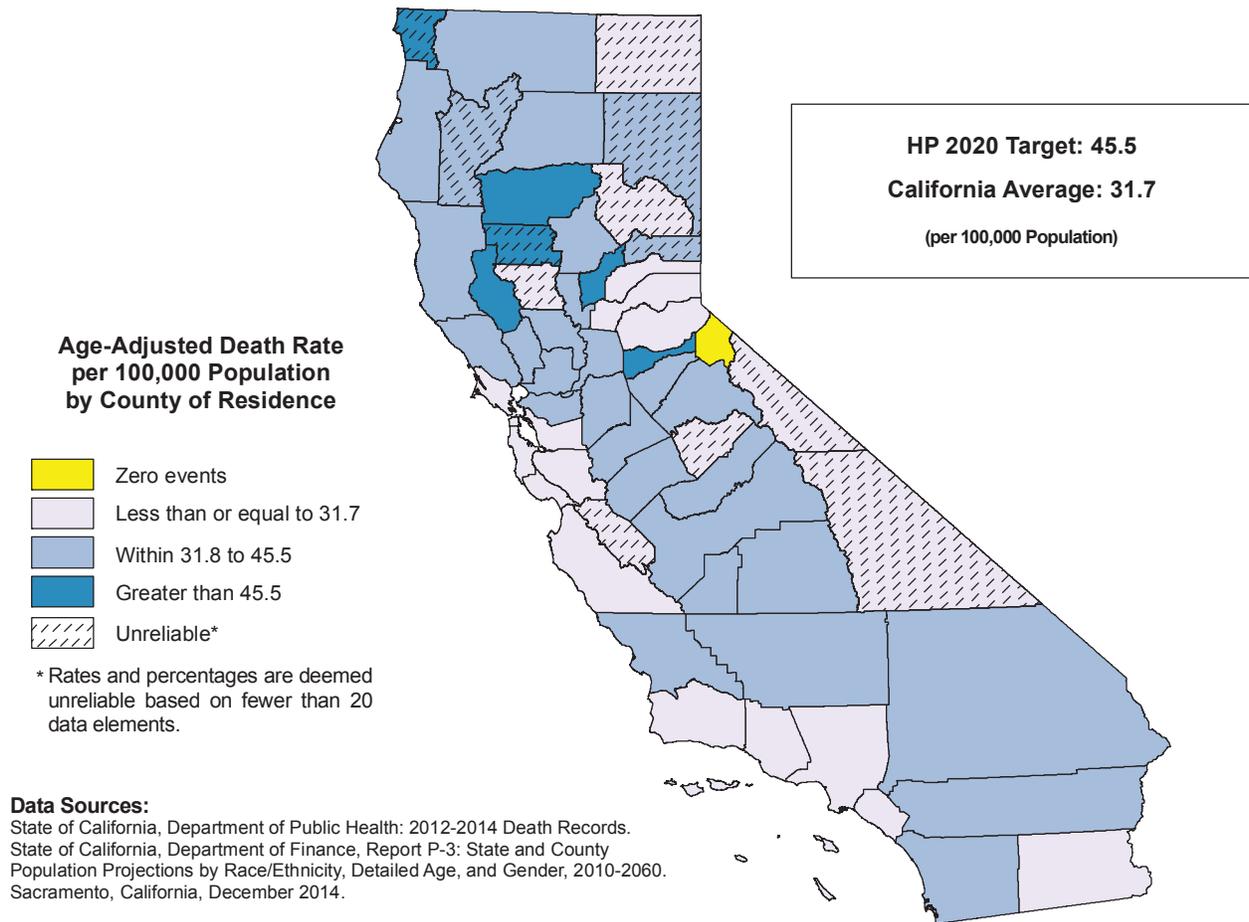
- Rates, percentages, and confidence limits are not calculated for zero events.

Note: Counties were rank ordered first by increasing age-adjusted death rate (calculated to 15 decimal places), second by decreasing population count.

Sources: State of California, Department of Public Health: 2012-2014 Death Records.

State of California, Department of Finance, Report P-3: State and County Population Projections by Race/Ethnicity, Detailed Age, and Gender, 2010-2060. Sacramento, California, December 2014.

DEATHS DUE TO LUNG CANCER, 2012-2014



The crude death rate from lung cancer for California was 32.4 deaths per 100,000 population, a risk of dying from lung cancer equivalent to approximately one death for every 3,086.8 persons. The crude death rate for California was based on a 2012 through 2014 three-year average number of deaths equaling 12,376.0 and a population count of 38,202,206 as of July 1, 2013. Among counties with reliable rates, the crude death rate ranged from 85.9 in Lake County to 24.0 in Imperial County, a factor of 3.6 to 1.

The age-adjusted death rate from lung cancer for California during the 2012 through 2014 three-year period was 31.7 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 55.8 in Lake County to 25.2 in Santa Barbara County.

Forty-one counties with reliable age-adjusted death rates and California as a whole met the Healthy People 2020 National Objective C-2 of no more than 45.5 age-adjusted deaths due to lung cancer per 100,000 population. An additional ten counties with unreliable rates and one county with no deaths due to lung cancer met the objective.

The California age-adjusted death rate from lung cancer for the 2009-2011 period was 36.1 per 100,000 population.

**TABLE 4
DEATHS DUE TO LUNG CANCER
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE
CALIFORNIA COUNTIES, 2012-2014**

| RANK ORDER | COUNTY OF RESIDENCE | 2013 POPULATION | 2012-2014 DEATHS (AVERAGE) | CRUDE DEATH RATE | AGE-ADJUSTED DEATH RATE | 95% CONFIDENCE LIMITS | | |
|------------|--|-------------------|----------------------------|------------------|-------------------------|-----------------------|-------------|--|
| | | | | | | LOWER | UPPER | |
| 1 | ALPINE | 1,228 | 0.0 | - | - | - | - | |
| 2 | MONO | 14,376 | 2.3 | 16.2 * | 15.3 * | 2.3 | 50.7 | |
| 3 | MODOC | 9,457 | 3.3 | 35.2 * | 20.7 * | 4.8 | 57.6 | |
| 4 | SANTA BARBARA | 433,157 | 121.0 | 27.9 | 25.2 | 20.6 | 29.7 | |
| 5 | MARIN | 256,264 | 97.0 | 37.9 | 25.3 | 20.5 | 30.9 | |
| 6 | SAN BENITO | 57,366 | 14.0 | 24.4 * | 25.6 * | 14.0 | 43.0 | |
| 7 | SANTA CRUZ | 271,495 | 71.0 | 26.2 | 25.8 | 20.1 | 32.5 | |
| 8 | SAN MATEO | 741,857 | 229.0 | 30.9 | 25.9 | 22.4 | 29.3 | |
| 9 | IMPERIAL | 179,326 | 43.0 | 24.0 | 26.1 | 18.9 | 35.1 | |
| 10 | SANTA CLARA | 1,850,595 | 488.0 | 26.4 | 26.2 | 23.9 | 28.6 | |
| 11 | VENTURA | 839,617 | 238.3 | 28.4 | 26.9 | 23.5 | 30.4 | |
| 12 | LOS ANGELES | 10,010,961 | 2,708.7 | 27.1 | 27.5 | 26.4 | 28.5 | |
| 13 | MONTEREY | 424,119 | 112.7 | 26.6 | 27.6 | 22.4 | 32.7 | |
| 14 | MARIPOSA | 18,101 | 9.7 | 53.4 * | 28.9 * | 13.7 | 53.7 | |
| 15 | ORANGE | 3,097,966 | 945.0 | 30.5 | 29.3 | 27.4 | 31.2 | |
| 16 | COLUSA | 21,987 | 6.7 | 30.3 * | 29.3 * | 11.5 | 61.5 | |
| 17 | PLACER | 365,125 | 148.0 | 40.5 | 30.3 | 25.4 | 35.2 | |
| 18 | PLUMAS | 19,466 | 11.0 | 56.5 * | 30.4 * | 15.2 | 54.5 | |
| 19 | SAN FRANCISCO | 833,827 | 303.7 | 36.4 | 30.5 | 27.0 | 33.9 | |
| 20 | ALAMEDA | 1,563,370 | 488.3 | 31.2 | 30.7 | 27.9 | 33.5 | |
| 21 | INYO | 19,241 | 10.0 | 52.0 * | 30.8 * | 14.7 | 56.6 | |
| 22 | NEVADA | 98,317 | 52.0 | 52.9 | 31.4 | 23.5 | 41.2 | |
| 23 | EL DORADO | 184,054 | 80.3 | 43.6 | 31.5 | 25.0 | 39.2 | |
| | CALIFORNIA | 38,202,206 | 12,376.0 | 32.4 | 31.7 | 31.2 | 32.3 | |
| 24 | TUOLUMNE | 54,811 | 31.0 | 56.6 | 31.8 | 21.6 | 45.2 | |
| 25 | LASSEN | 34,966 | 11.3 | 32.4 * | 32.0 * | 16.2 | 56.8 | |
| 26 | SAN LUIS OBISPO | 271,740 | 119.0 | 43.8 | 32.4 | 26.4 | 38.3 | |
| 27 | KINGS | 152,456 | 37.3 | 24.5 | 32.4 | 22.8 | 44.6 | |
| 28 | MADERA | 153,409 | 50.3 | 32.8 | 33.1 | 24.6 | 43.6 | |
| 29 | SAN DIEGO | 3,184,072 | 1,064.0 | 33.4 | 33.2 | 31.2 | 35.2 | |
| 30 | YOLO | 206,621 | 62.3 | 30.2 | 33.3 | 25.6 | 42.7 | |
| 31 | CONTRA COSTA | 1,081,862 | 409.0 | 37.8 | 33.9 | 30.5 | 37.2 | |
| 32 | SONOMA | 493,070 | 208.3 | 42.3 | 34.0 | 29.3 | 38.8 | |
| 33 | SIERRA | 3,270 | 2.3 | 71.4 * | 34.3 * | 5.2 | 113.8 | |
| 34 | FRESNO | 958,260 | 290.7 | 30.3 | 34.5 | 30.4 | 38.5 | |
| 35 | TULARE | 456,075 | 133.0 | 29.2 | 35.3 | 29.2 | 41.4 | |
| 36 | RIVERSIDE | 2,264,173 | 816.0 | 36.0 | 35.4 | 32.9 | 37.8 | |
| 37 | NAPA | 139,831 | 65.0 | 46.5 | 35.8 | 27.7 | 45.7 | |
| 38 | SAN BERNARDINO | 2,075,160 | 619.7 | 29.9 | 36.4 | 33.5 | 39.3 | |
| 39 | MENDOCINO | 88,931 | 47.0 | 52.8 | 37.1 | 27.3 | 49.3 | |
| 40 | HUMBOLDT | 136,480 | 61.7 | 45.2 | 37.2 | 28.5 | 47.7 | |
| 41 | TRINITY | 13,776 | 8.7 | 62.9 * | 37.9 * | 17.0 | 72.8 | |
| 42 | KERN | 869,797 | 277.0 | 31.8 | 39.3 | 34.6 | 44.0 | |
| 43 | MERCED | 263,441 | 86.3 | 32.8 | 39.4 | 31.5 | 48.6 | |
| 44 | STANISLAUS | 527,232 | 195.3 | 37.0 | 39.5 | 33.9 | 45.1 | |
| 45 | SISKIYOU | 45,215 | 30.3 | 67.1 | 39.8 | 26.9 | 56.6 | |
| 46 | CALAVERAS | 45,214 | 33.7 | 74.5 | 40.5 | 28.0 | 56.7 | |
| 47 | SACRAMENTO | 1,448,268 | 592.0 | 40.9 | 40.7 | 37.3 | 44.0 | |
| 48 | SAN JOAQUIN | 703,790 | 266.7 | 37.9 | 41.1 | 36.1 | 46.1 | |
| 49 | SOLANO | 424,048 | 191.0 | 45.0 | 42.1 | 36.0 | 48.2 | |
| 50 | SUTTER | 97,386 | 44.7 | 45.9 | 42.6 | 31.0 | 57.0 | |
| 51 | BUTTE | 222,035 | 127.7 | 57.5 | 44.6 | 36.7 | 52.5 | |
| 52 | SHASTA | 178,591 | 114.0 | 63.8 | 44.7 | 36.4 | 53.1 | |
| | HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: C-2 | | | | | 45.5 | | |
| 53 | DEL NORTE | 28,530 | 15.3 | 53.7 * | 45.6 * | 25.7 | 74.7 | |
| 54 | AMADOR | 36,945 | 31.0 | 83.9 | 45.7 | 31.1 | 64.9 | |
| 55 | YUBA | 73,600 | 32.0 | 43.5 | 46.9 | 32.1 | 66.2 | |
| 56 | GLENN | 28,599 | 16.7 | 58.3 * | 50.3 * | 29.1 | 80.8 | |
| 57 | TEHAMA | 64,498 | 47.0 | 72.9 | 54.0 | 39.7 | 71.9 | |
| 58 | LAKE | 64,782 | 55.7 | 85.9 | 55.8 | 42.1 | 72.5 | |

* Rates are deemed unreliable based on fewer than 20 data elements.

- Rates, percentages, and confidence limits are not calculated for zero events.

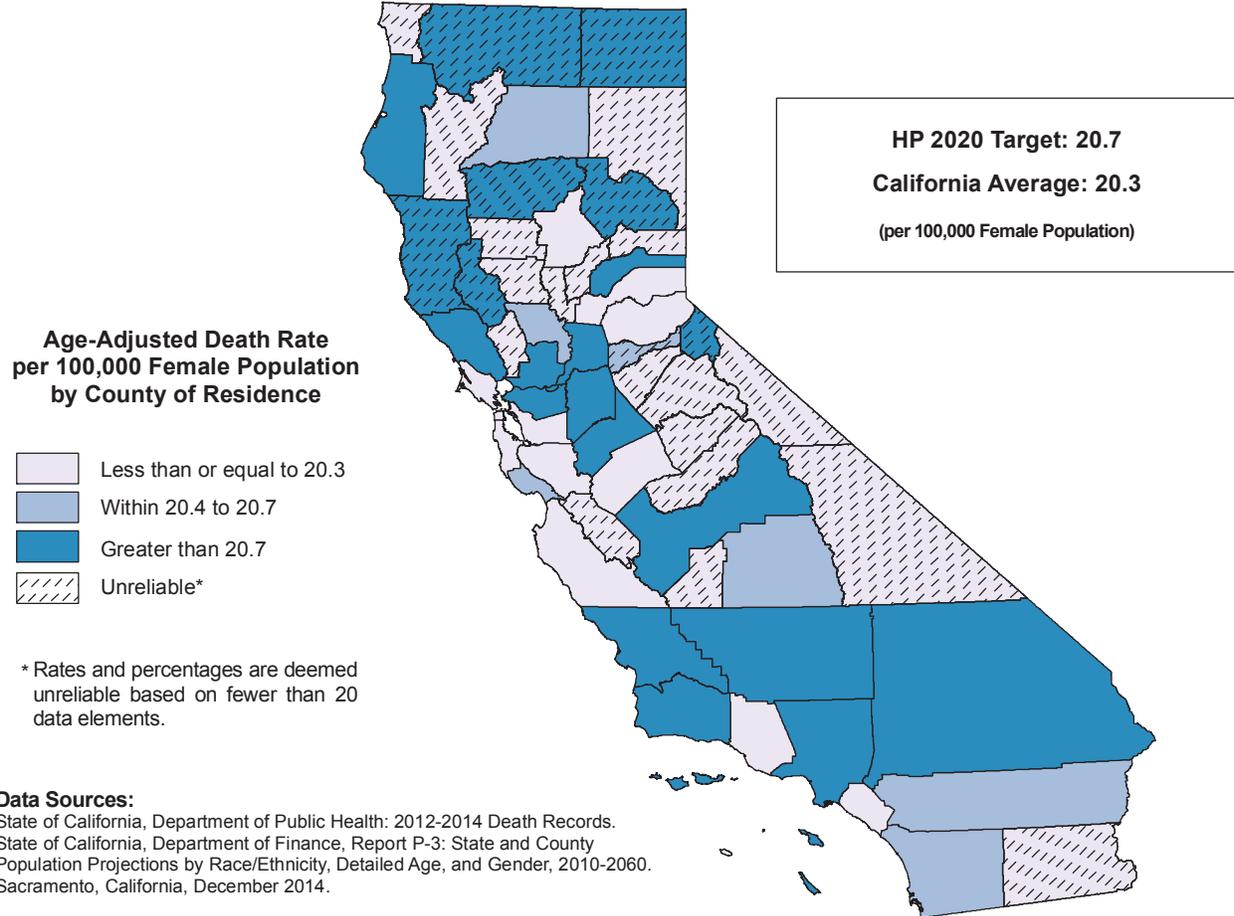
Note: Counties were rank ordered first by increasing age-adjusted death rate (calculated to 15 decimal places), second by decreasing population count.

Sources: State of California, Department of Public Health: 2012-2014 Death Records.

State of California, Department of Finance, Report P-3: State and County Population Projections by Race/Ethnicity, Detailed Age, and Gender, 2010-2060.

Sacramento, California, December 2014.

DEATHS DUE TO FEMALE BREAST CANCER, 2012-2014



The crude death rate from female breast cancer for California was 23.0 deaths per 100,000 female population, a risk of dying from breast cancer equivalent to approximately one death for every 4,341.4 females. The crude death rate for California was based on a 2012 through 2014 three-year average number of deaths equaling 4,421.3 and a female population count of 19,194,857 as of July 1, 2013. Among counties with reliable rates, the crude death rate ranged from 40.9 in Nevada County to 18.1 in Merced County, a factor of 2.3 to 1.

The age-adjusted death rate from female breast cancer for California during the 2012 through 2014 three-year period was 20.3 deaths per 100,000 female population. Reliable age-adjusted death rates ranged from 24.6 in Humboldt County to 16.1 in Santa Clara County.

Eighteen counties with reliable age-adjusted death rates and California as a whole met the Healthy People 2020 National Objective C-3 of no more than 20.7 age-adjusted deaths due to female breast cancer per 100,000 female population. An additional nineteen counties with unreliable rates met the objective.

The California age-adjusted death rate from female breast cancer for the 2009-2011 period was 21.2 per 100,000 female population.

**TABLE 5
DEATHS DUE TO FEMALE BREAST CANCER
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE
CALIFORNIA COUNTIES, 2012-2014**

| RANK ORDER | COUNTY OF RESIDENCE | 2013 POPULATION | 2012-2014 DEATHS (AVERAGE) | CRUDE DEATH RATE | AGE-ADJUSTED DEATH RATE | 95% CONFIDENCE LIMITS | | |
|------------|--|-------------------|----------------------------|------------------|-------------------------|-----------------------|-------------|--|
| | | | | | | LOWER | UPPER | |
| 1 | LASSEN | 12,564 | 1.3 | 10.6 * | 6.9 * | 0.4 | 31.7 | |
| 2 | INYO | 9,456 | 1.3 | 14.1 * | 7.1 * | 0.4 | 32.7 | |
| 3 | SIERRA | 1,620 | 0.3 | 20.6 * | 8.2 * | 0.0 | 106.8 | |
| 4 | SAN BENITO | 28,744 | 4.3 | 15.1 * | 13.5 * | 3.9 | 33.4 | |
| 5 | NAPA | 69,555 | 14.7 | 21.1 * | 15.1 * | 8.4 | 25.0 | |
| 6 | GLENN | 14,151 | 2.7 | 18.8 * | 15.2 * | 2.7 | 46.9 | |
| 7 | SUTTER | 49,009 | 9.0 | 18.4 * | 15.6 * | 7.1 | 29.6 | |
| 8 | TRINITY | 6,711 | 2.0 | 29.8 * | 16.0 * | 1.9 | 57.8 | |
| 9 | SANTA CLARA | 923,657 | 169.3 | 18.3 | 16.1 | 13.6 | 18.5 | |
| 10 | IMPERIAL | 87,071 | 13.7 | 15.7 * | 16.2 * | 8.8 | 27.4 | |
| 11 | DEL NORTE | 12,613 | 3.3 | 26.4 * | 16.8 * | 3.9 | 46.6 | |
| 12 | MONO | 6,811 | 1.0 | 14.7 * | 16.9 * | 0.4 | 94.3 | |
| 13 | CALAVERAS | 22,625 | 6.7 | 29.5 * | 17.0 * | 6.6 | 35.6 | |
| 14 | SAN FRANCISCO | 410,679 | 89.0 | 21.7 | 17.2 | 13.8 | 21.1 | |
| 15 | MADERA | 79,534 | 14.3 | 18.0 * | 17.9 * | 9.8 | 29.8 | |
| 16 | EL DORADO | 92,056 | 23.7 | 25.7 | 18.6 | 11.9 | 27.7 | |
| 17 | BUTTE | 111,860 | 28.0 | 25.0 | 18.6 | 12.3 | 26.9 | |
| 18 | TUOLUMNE | 25,805 | 8.7 | 33.6 * | 18.6 * | 8.3 | 35.7 | |
| 19 | MARIN | 130,377 | 38.7 | 29.7 | 18.8 | 13.3 | 25.7 | |
| 20 | PLACER | 186,780 | 47.7 | 25.5 | 18.8 | 13.8 | 24.9 | |
| 21 | ALAMEDA | 797,331 | 175.7 | 22.0 | 19.0 | 16.1 | 21.8 | |
| 22 | ORANGE | 1,565,455 | 348.7 | 22.3 | 19.1 | 17.0 | 21.1 | |
| 23 | SAN MATEO | 377,041 | 96.0 | 25.5 | 19.4 | 15.7 | 23.7 | |
| 24 | MONTEREY | 205,876 | 44.0 | 21.4 | 19.4 | 14.1 | 26.0 | |
| 25 | KINGS | 66,036 | 11.7 | 17.7 * | 19.5 * | 10.0 | 34.4 | |
| 26 | MARIPOSA | 8,940 | 3.0 | 33.6 * | 19.6 * | 4.0 | 57.3 | |
| 27 | MERCED | 130,742 | 23.7 | 18.1 | 19.7 | 12.6 | 29.5 | |
| 28 | VENTURA | 422,143 | 101.0 | 23.9 | 19.8 | 15.9 | 23.8 | |
| 29 | COLUSA | 10,679 | 2.3 | 21.8 * | 19.9 * | 3.0 | 65.9 | |
| 30 | YUBA | 36,597 | 7.3 | 20.0 * | 20.1 * | 8.3 | 40.7 | |
| | CALIFORNIA | 19,194,857 | 4,421.3 | 23.0 | 20.3 | 19.7 | 20.9 | |
| 31 | SANTA CRUZ | 135,792 | 34.0 | 25.0 | 20.4 | 14.1 | 28.4 | |
| 32 | AMADOR | 16,743 | 6.3 | 37.8 * | 20.5 * | 7.8 | 43.7 | |
| 33 | RIVERSIDE | 1,137,347 | 253.7 | 22.3 | 20.5 | 18.0 | 23.1 | |
| 34 | YOLO | 105,846 | 21.0 | 19.8 | 20.6 | 12.7 | 31.5 | |
| 35 | TULARE | 227,576 | 43.0 | 18.9 | 20.6 | 14.9 | 27.8 | |
| 36 | SHASTA | 90,697 | 28.3 | 31.2 | 20.7 | 13.8 | 29.8 | |
| 37 | SAN DIEGO | 1,580,411 | 370.3 | 23.4 | 20.7 | 18.6 | 22.8 | |
| | HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: C-3 | | | | | 20.7 | | |
| 38 | MENDOCINO | 44,282 | 14.0 | 31.6 * | 20.8 * | 11.4 | 34.9 | |
| 39 | CONTRA COSTA | 554,231 | 143.0 | 25.8 | 20.9 | 17.4 | 24.4 | |
| 40 | SACRAMENTO | 738,027 | 172.3 | 23.4 | 20.9 | 17.8 | 24.1 | |
| 41 | LOS ANGELES | 5,071,249 | 1,175.3 | 23.2 | 21.0 | 19.7 | 22.2 | |
| 42 | FRESNO | 479,123 | 97.0 | 20.2 | 21.1 | 17.1 | 25.8 | |
| 43 | SONOMA | 250,339 | 71.7 | 28.6 | 21.2 | 16.6 | 26.8 | |
| 44 | SANTA BARBARA | 215,485 | 53.7 | 24.9 | 21.3 | 16.0 | 27.8 | |
| 45 | SAN JOAQUIN | 352,972 | 78.7 | 22.3 | 21.9 | 17.3 | 27.3 | |
| 46 | SOLANO | 212,564 | 54.3 | 25.6 | 21.9 | 16.5 | 28.6 | |
| 47 | KERN | 418,872 | 85.3 | 20.4 | 22.1 | 17.7 | 27.4 | |
| 48 | STANISLAUS | 266,105 | 60.3 | 22.7 | 22.1 | 16.9 | 28.5 | |
| 49 | TEHAMA | 32,330 | 10.0 | 30.9 * | 22.2 * | 10.6 | 40.8 | |
| 50 | LAKE | 32,297 | 11.3 | 35.1 * | 22.3 * | 11.3 | 39.6 | |
| 51 | PLUMAS | 9,755 | 4.3 | 44.4 * | 22.9 * | 6.7 | 56.7 | |
| 52 | SAN LUIS OBISPO | 132,467 | 43.3 | 32.7 | 23.7 | 17.2 | 32.0 | |
| 53 | NEVADA | 49,678 | 20.3 | 40.9 | 24.0 | 14.7 | 37.0 | |
| 54 | SAN BERNARDINO | 1,042,531 | 240.3 | 23.1 | 24.1 | 21.0 | 27.2 | |
| 55 | HUMBOLDT | 67,659 | 21.0 | 31.0 | 24.6 | 15.2 | 37.6 | |
| 56 | SISKIYOU | 22,662 | 12.3 | 54.4 * | 32.9 * | 17.2 | 57.0 | |
| 57 | MODOC | 4,710 | 2.7 | 56.6 * | 34.4 * | 6.2 | 106.5 | |
| 58 | ALPINE | 589 | 0.3 | 56.6 * | 49.4 * | 0.0 | 645.8 | |

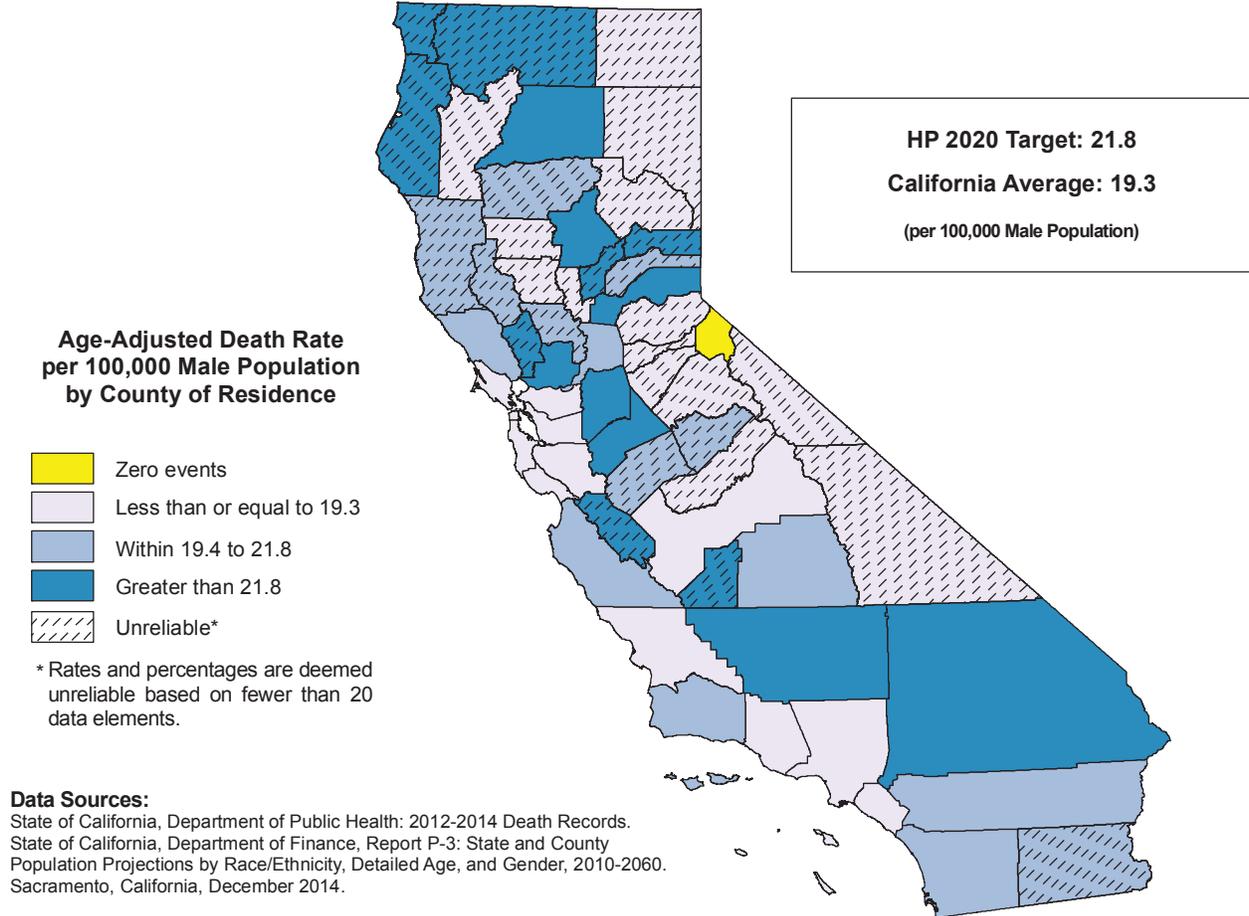
* Rates are deemed unreliable based on fewer than 20 data elements.

Note: Counties were rank ordered first by increasing age-adjusted death rate (calculated to 15 decimal places), second by decreasing population count.

Sources: State of California, Department of Public Health: 2012-2014 Death Records.

State of California, Department of Finance, Report P-3: State and County Population Projections by Race/Ethnicity, Detailed Age, and Gender, 2010-2060. Sacramento, California, December 2014.

DEATHS DUE TO PROSTATE CANCER, 2012-2014



The crude death rate from prostate cancer for California was 16.3 deaths per 100,000 male population, a risk of dying from prostate cancer equivalent to approximately one death for every 6,142.0 males. The crude death rate for California was based on a 2012 through 2014 three-year average number of deaths equaling 3,094.7 and a male population count of 19,007,349 as of July 1, 2013. Among counties with reliable rates, the crude death rate ranged from 28.4 in Shasta County to 12.2 in Fresno County, a factor of 2.3 to 1.

The age-adjusted death rate from prostate cancer for California during the 2012 through 2014 three-year period was 19.3 deaths per 100,000 male population. Reliable age-adjusted death rates ranged from 24.0 in San Joaquin County to 13.9 in San Francisco County.

Nineteen counties with reliable age-adjusted death rates and California as a whole met the Healthy People 2020 National Objective C-7 of no more than 21.8 age-adjusted deaths due to prostate cancer per 100,000 male population. An additional twenty-two counties with unreliable rates and one county with no deaths due to prostate cancer met the objective.

The California age-adjusted death rate from prostate cancer for the 2009-2011 period was 21.2 per 100,000 male population.

**TABLE 6
DEATHS DUE TO PROSTATE CANCER
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE
CALIFORNIA COUNTIES, 2012-2014**

| RANK ORDER | COUNTY OF RESIDENCE | 2013 POPULATION | 2012-2014 DEATHS (AVERAGE) | CRUDE DEATH RATE | AGE-ADJUSTED DEATH RATE | 95% CONFIDENCE LIMITS | | |
|------------|--|-------------------|----------------------------|------------------|-------------------------|-----------------------|-------------|--|
| | | | | | | LOWER | UPPER | |
| 1 | ALPINE | 639 | 0.0 | - | - | - | - | |
| 2 | MODOC | 4,747 | 0.3 | 7.0 * | 4.4 * | 0.0 | 58.2 | |
| 3 | TRINITY | 7,065 | 0.7 | 9.4 * | 5.2 * | 0.0 | 38.8 | |
| 4 | MONO | 7,565 | 0.3 | 4.4 * | 8.0 * | 0.0 | 104.0 | |
| 5 | GLENN | 14,448 | 1.3 | 9.2 * | 8.8 * | 0.5 | 40.7 | |
| 6 | INYO | 9,785 | 1.7 | 17.0 * | 10.8 * | 1.0 | 43.5 | |
| 7 | COLUSA | 11,308 | 1.3 | 11.8 * | 12.3 * | 0.7 | 56.5 | |
| 8 | LASSEN | 22,402 | 2.0 | 8.9 * | 13.4 * | 1.6 | 48.5 | |
| 9 | SAN FRANCISCO | 423,148 | 60.3 | 14.3 | 13.9 | 10.6 | 17.9 | |
| 10 | AMADOR | 20,202 | 4.3 | 21.5 * | 13.9 * | 4.1 | 34.5 | |
| 11 | MARIN | 125,887 | 24.7 | 19.6 | 15.2 | 9.8 | 22.5 | |
| 12 | SANTA CLARA | 926,938 | 122.7 | 13.2 | 15.9 | 13.1 | 18.8 | |
| 13 | SAN MATEO | 364,816 | 59.7 | 16.4 | 16.0 | 12.2 | 20.6 | |
| 14 | TUOLUMNE | 29,006 | 7.3 | 25.3 * | 16.3 * | 6.7 | 33.0 | |
| 15 | SUTTER | 48,377 | 7.0 | 14.5 * | 16.3 * | 6.6 | 33.6 | |
| 16 | FRESNO | 479,137 | 58.7 | 12.2 | 16.8 | 12.8 | 21.7 | |
| 17 | CALAVERAS | 22,589 | 6.3 | 28.0 * | 17.0 * | 6.4 | 36.2 | |
| 18 | SANTA CRUZ | 135,703 | 21.0 | 15.5 | 17.4 | 10.8 | 26.6 | |
| 19 | MADERA | 73,875 | 11.7 | 15.8 * | 17.5 * | 9.0 | 30.8 | |
| 20 | ALAMEDA | 766,039 | 113.3 | 14.8 | 17.7 | 14.4 | 21.1 | |
| 21 | VENTURA | 417,474 | 64.7 | 15.5 | 17.8 | 13.7 | 22.7 | |
| 22 | ORANGE | 1,532,511 | 235.0 | 15.3 | 17.9 | 15.6 | 20.2 | |
| 23 | PLUMAS | 9,711 | 3.0 | 30.9 * | 18.3 * | 3.8 | 53.5 | |
| 24 | EL DORADO | 91,998 | 19.7 | 21.4 * | 18.5 * | 11.2 | 28.7 | |
| 25 | LOS ANGELES | 4,939,712 | 744.3 | 15.1 | 18.6 | 17.3 | 20.0 | |
| 26 | CONTRA COSTA | 527,631 | 92.7 | 17.6 | 18.6 | 15.0 | 22.8 | |
| 27 | SAN LUIS OBISPO | 139,273 | 30.3 | 21.8 | 18.9 | 12.8 | 26.9 | |
| | CALIFORNIA | 19,007,349 | 3,094.7 | 16.3 | 19.3 | 18.6 | 20.0 | |
| 28 | TEHAMA | 32,168 | 7.3 | 22.8 * | 19.4 * | 8.0 | 39.3 | |
| 29 | NEVADA | 48,639 | 15.0 | 30.8 * | 19.5 * | 10.9 | 32.1 | |
| 30 | RIVERSIDE | 1,126,826 | 196.0 | 17.4 | 19.7 | 16.9 | 22.5 | |
| 31 | MONTEREY | 218,243 | 32.3 | 14.8 | 19.7 | 13.5 | 27.8 | |
| 32 | MENDOCINO | 44,649 | 10.3 | 23.1 * | 19.8 * | 9.6 | 36.1 | |
| 33 | SONOMA | 242,731 | 49.3 | 20.3 | 19.9 | 14.8 | 26.3 | |
| 34 | MERCED | 132,699 | 17.3 | 13.1 * | 20.3 * | 11.9 | 32.3 | |
| 35 | MARIPOSA | 9,161 | 3.0 | 32.7 * | 20.9 * | 4.3 | 60.9 | |
| 36 | SACRAMENTO | 710,241 | 120.3 | 16.9 | 21.0 | 17.2 | 24.8 | |
| 37 | TULARE | 228,499 | 31.0 | 13.6 | 21.1 | 14.3 | 29.9 | |
| 38 | SAN DIEGO | 1,603,661 | 288.7 | 18.0 | 21.3 | 18.8 | 23.8 | |
| 39 | YOLO | 100,775 | 15.7 | 15.5 * | 21.3 * | 12.1 | 34.8 | |
| 40 | IMPERIAL | 92,255 | 15.7 | 17.0 * | 21.6 * | 12.3 | 35.3 | |
| 41 | SANTA BARBARA | 217,672 | 46.7 | 21.4 | 21.7 | 15.9 | 28.9 | |
| 42 | LAKE | 32,485 | 9.3 | 28.7 * | 21.8 * | 10.1 | 40.9 | |
| | HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: C-7 | | | | | 21.8 | | |
| 43 | STANISLAUS | 261,127 | 43.7 | 16.7 | 21.9 | 15.9 | 29.5 | |
| 44 | PLACER | 178,345 | 45.3 | 25.4 | 22.2 | 16.2 | 29.7 | |
| 45 | KINGS | 86,420 | 10.7 | 12.3 * | 22.3 * | 11.0 | 40.3 | |
| 46 | DEL NORTE | 15,917 | 3.7 | 23.0 * | 23.2 * | 5.8 | 61.7 | |
| 47 | HUMBOLDT | 68,821 | 15.0 | 21.8 * | 23.5 * | 13.1 | 38.7 | |
| 48 | KERN | 450,925 | 64.3 | 14.3 | 23.5 | 18.1 | 30.0 | |
| 49 | SHASTA | 87,894 | 25.0 | 28.4 | 23.5 | 15.2 | 34.7 | |
| 50 | NAPA | 70,276 | 18.7 | 26.6 * | 23.5 * | 14.1 | 36.9 | |
| 51 | BUTTE | 110,175 | 29.7 | 26.9 | 23.6 | 15.9 | 33.7 | |
| 52 | SOLANO | 211,484 | 42.3 | 20.0 | 23.9 | 17.2 | 32.2 | |
| 53 | SAN BERNARDINO | 1,032,629 | 156.3 | 15.1 | 24.0 | 20.1 | 27.9 | |
| 54 | SAN JOAQUIN | 350,818 | 60.7 | 17.3 | 24.0 | 18.3 | 30.9 | |
| 55 | SAN BENITO | 28,622 | 5.7 | 19.8 * | 26.5 * | 9.4 | 59.0 | |
| 56 | SISKIYOU | 22,553 | 11.0 | 48.8 * | 32.8 * | 16.4 | 58.7 | |
| 57 | YUBA | 37,003 | 9.0 | 24.3 * | 34.3 * | 15.7 | 65.0 | |
| 58 | SIERRA | 1,650 | 1.3 | 80.8 * | 47.6 * | 2.6 | 219.3 | |

* Rates are deemed unreliable based on fewer than 20 data elements.

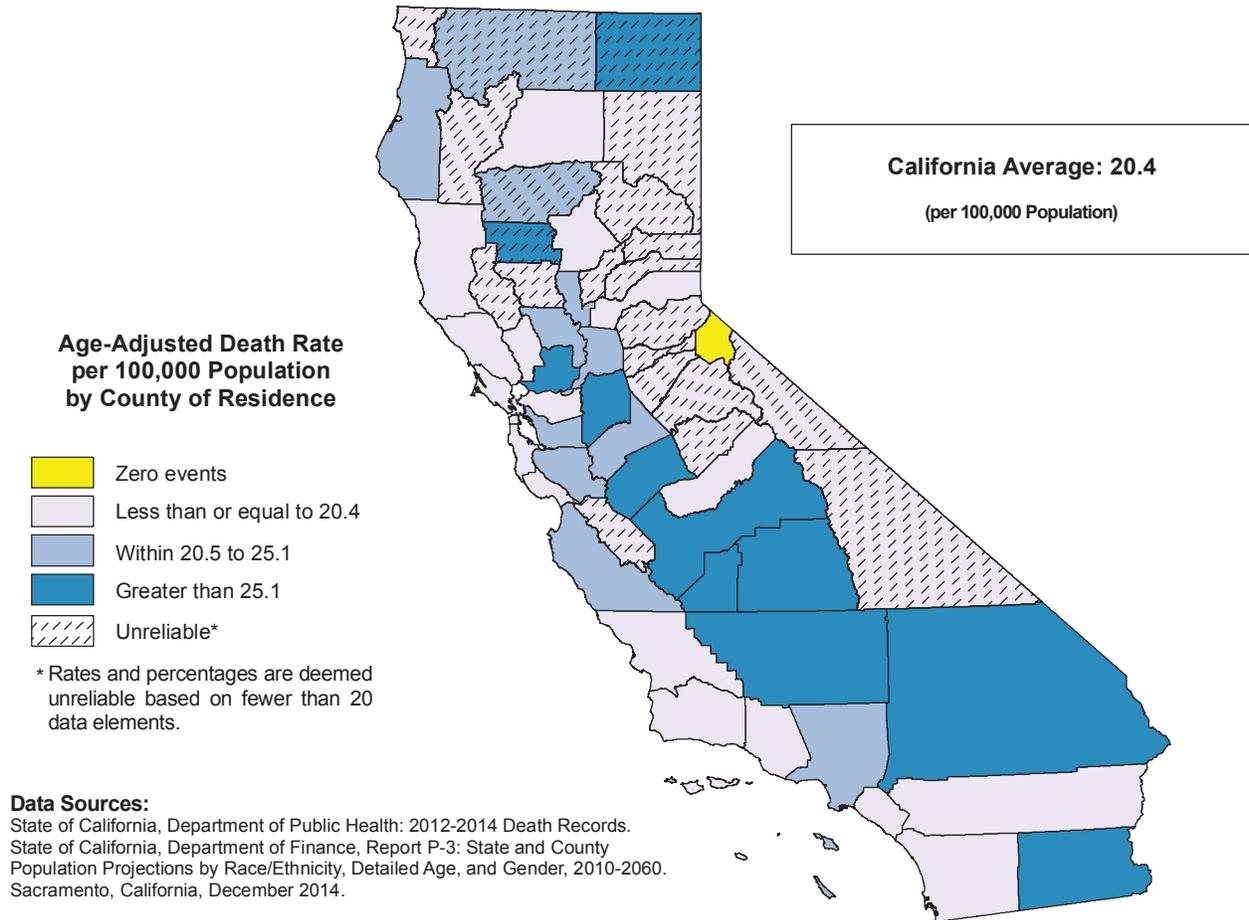
- Rates, percentages, and confidence limits are not calculated for zero events.

Note: Counties were rank ordered first by increasing age-adjusted death rate (calculated to 15 decimal places), second by decreasing population count.

Sources: State of California, Department of Public Health: 2012-2014 Death Records.

State of California, Department of Finance, Report P-3: State and County Population Projections by Race/Ethnicity, Detailed Age, and Gender, 2010-2060. Sacramento, California, December 2014.

DEATHS DUE TO DIABETES, 2012-2014



The crude death rate from diabetes for California was 21.0 deaths per 100,000 population, a risk of dying from diabetes equivalent to approximately one death for every 4,757.0 persons. The crude death rate for California was based on a 2012 through 2014 three-year average number of deaths equaling 8,030.7 and a population count of 38,202,206 as of July 1, 2013. Among counties with reliable rates, the crude death rate ranged from 27.1 in Kern County to 12.0 in Marin County, a factor of 2.3 to 1.

The age-adjusted death rate from diabetes for California during the 2012 through 2014 three-year period was 20.4 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 34.4 in Kern County to 7.7 in Marin County.

The Healthy People National Objective D-3 for diabetes mortality is based on both underlying and contributing causes of death. This report does not utilize multiple causes of death data. Therefore, California's progress in meeting this objective will not be addressed in this report.

The California age-adjusted death rate from diabetes for the 2009-2011 period was 19.9 per 100,000 population.

**TABLE 7
DEATHS DUE TO DIABETES
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE
CALIFORNIA COUNTIES, 2012-2014**

| RANK ORDER | COUNTY OF RESIDENCE | 2013 POPULATION | 2012-2014 DEATHS (AVERAGE) | CRUDE DEATH RATE | AGE-ADJUSTED DEATH RATE | 95% CONFIDENCE LIMITS | |
|---|---------------------|-------------------|----------------------------|------------------|-------------------------|-----------------------|-------------|
| | | | | | | LOWER | UPPER |
| HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: D-3 (NOT APPLICABLE) | | | | | | | |
| 1 | ALPINE | 1,228 | 0.0 | - | - | - | - |
| 2 | MARIN | 256,264 | 30.7 | 12.0 | 7.7 | 5.2 | 10.9 |
| 3 | EL DORADO | 184,054 | 17.7 | 9.6 * | 7.7 * | 4.6 | 12.3 |
| 4 | AMADOR | 36,945 | 5.0 | 13.5 * | 7.8 * | 2.5 | 18.3 |
| 5 | NEVADA | 98,317 | 13.0 | 13.2 * | 8.4 * | 4.5 | 14.4 |
| 6 | PLUMAS | 19,466 | 3.3 | 17.1 * | 10.0 * | 2.3 | 27.8 |
| 7 | NAPA | 139,831 | 21.0 | 15.0 | 11.5 | 7.1 | 17.6 |
| 8 | SAN FRANCISCO | 833,827 | 121.3 | 14.6 | 11.8 | 9.7 | 14.0 |
| 9 | TRINITY | 13,776 | 3.0 | 21.8 * | 12.4 * | 2.6 | 36.2 |
| 10 | SAN MATEO | 741,857 | 114.3 | 15.4 | 12.6 | 10.2 | 14.9 |
| 11 | SAN LUIS OBISPO | 271,740 | 44.7 | 16.4 | 12.7 | 9.2 | 17.0 |
| 12 | MONO | 14,376 | 1.3 | 9.3 * | 12.7 * | 0.7 | 58.4 |
| 13 | SANTA BARBARA | 433,157 | 70.3 | 16.2 | 14.2 | 11.1 | 17.9 |
| 14 | ORANGE | 3,097,966 | 465.7 | 15.0 | 14.3 | 13.0 | 15.6 |
| 15 | PLACER | 365,125 | 70.3 | 19.3 | 14.5 | 11.3 | 18.3 |
| 16 | COLUSA | 21,987 | 3.3 | 15.2 * | 14.8 * | 3.4 | 41.2 |
| 17 | DEL NORTE | 28,530 | 5.0 | 17.5 * | 14.8 * | 4.8 | 34.6 |
| 18 | CALAVERAS | 45,214 | 12.3 | 27.3 * | 14.9 * | 7.8 | 25.8 |
| 19 | SANTA CRUZ | 271,495 | 46.0 | 16.9 | 15.5 | 11.4 | 20.7 |
| 20 | SIERRA | 3,270 | 1.0 | 30.6 * | 15.7 * | 0.4 | 87.6 |
| 21 | TUOLUMNE | 54,811 | 15.0 | 27.4 * | 15.9 * | 8.9 | 26.2 |
| 22 | YUBA | 73,600 | 11.0 | 14.9 * | 16.1 * | 8.0 | 28.8 |
| 23 | CONTRA COSTA | 1,081,862 | 198.7 | 18.4 | 16.2 | 13.9 | 18.5 |
| 24 | SAN BENITO | 57,366 | 9.0 | 15.7 * | 16.6 * | 7.6 | 31.5 |
| 25 | LAKE | 64,782 | 15.3 | 23.7 * | 16.7 * | 9.4 | 27.4 |
| 26 | MENDOCINO | 88,931 | 20.7 | 23.2 | 17.0 | 10.5 | 26.1 |
| 27 | VENTURA | 839,617 | 156.3 | 18.6 | 17.3 | 14.5 | 20.0 |
| 28 | SONOMA | 493,070 | 109.0 | 22.1 | 17.7 | 14.3 | 21.1 |
| 29 | BUTTE | 222,035 | 51.3 | 23.1 | 18.0 | 13.4 | 23.6 |
| 30 | MARIPOSA | 18,101 | 4.0 | 22.1 * | 18.0 * | 4.9 | 46.2 |
| 31 | INYO | 19,241 | 6.0 | 31.2 * | 18.2 * | 6.7 | 39.6 |
| 32 | SHASTA | 178,591 | 45.3 | 25.4 | 18.7 | 13.6 | 25.0 |
| 33 | SAN DIEGO | 3,184,072 | 617.7 | 19.4 | 18.8 | 17.3 | 20.3 |
| 34 | MADERA | 153,409 | 28.0 | 18.3 | 18.9 | 12.6 | 27.3 |
| 35 | RIVERSIDE | 2,264,173 | 442.7 | 19.6 | 19.1 | 17.3 | 20.9 |
| 36 | LASSEN | 34,966 | 6.3 | 18.1 * | 19.4 * | 7.4 | 41.5 |
| | CALIFORNIA | 38,202,206 | 8,030.7 | 21.0 | 20.4 | 20.0 | 20.9 |
| 37 | MONTEREY | 424,119 | 82.3 | 19.4 | 20.5 | 16.3 | 25.4 |
| 38 | SISKIYOU | 45,215 | 14.0 | 31.0 * | 21.0 * | 11.5 | 35.3 |
| 39 | ALAMEDA | 1,563,370 | 344.3 | 22.0 | 21.1 | 18.8 | 23.4 |
| 40 | STANISLAUS | 527,232 | 108.0 | 20.5 | 21.6 | 17.5 | 25.7 |
| 41 | SANTA CLARA | 1,850,595 | 412.3 | 22.3 | 21.9 | 19.8 | 24.1 |
| 42 | LOS ANGELES | 10,010,961 | 2,221.7 | 22.2 | 22.3 | 21.4 | 23.2 |
| 43 | SUTTER | 97,386 | 23.0 | 23.6 | 22.4 | 14.2 | 33.6 |
| 44 | YOLO | 206,621 | 42.3 | 20.5 | 22.7 | 16.4 | 30.7 |
| 45 | HUMBOLDT | 136,480 | 36.7 | 26.9 | 23.7 | 16.6 | 32.6 |
| 46 | SACRAMENTO | 1,448,268 | 351.3 | 24.3 | 23.7 | 21.2 | 26.2 |
| 47 | TEHAMA | 64,498 | 19.7 | 30.5 * | 24.9 * | 15.2 | 38.6 |
| 48 | MODOC | 9,457 | 3.7 | 38.8 * | 25.3 * | 6.4 | 67.3 |
| 49 | SOLANO | 424,048 | 113.7 | 26.8 | 25.8 | 21.0 | 30.6 |
| 50 | TULARE | 456,075 | 101.7 | 22.3 | 26.7 | 21.4 | 31.9 |
| 51 | GLENN | 28,599 | 9.3 | 32.6 * | 27.6 * | 12.8 | 51.8 |
| 52 | IMPERIAL | 179,326 | 45.3 | 25.3 | 27.6 | 20.2 | 36.9 |
| 53 | MERCED | 263,441 | 61.3 | 23.3 | 28.0 | 21.4 | 35.9 |
| 54 | SAN JOAQUIN | 703,790 | 186.0 | 26.4 | 28.1 | 24.0 | 32.2 |
| 55 | FRESNO | 958,260 | 243.3 | 25.4 | 28.4 | 24.8 | 32.1 |
| 56 | KINGS | 152,456 | 34.3 | 22.5 | 30.3 | 21.0 | 42.2 |
| 57 | SAN BERNARDINO | 2,075,160 | 555.3 | 26.8 | 32.4 | 29.6 | 35.2 |
| 58 | KERN | 869,797 | 235.3 | 27.1 | 34.4 | 29.9 | 38.9 |

* Rates are deemed unreliable based on fewer than 20 data elements.

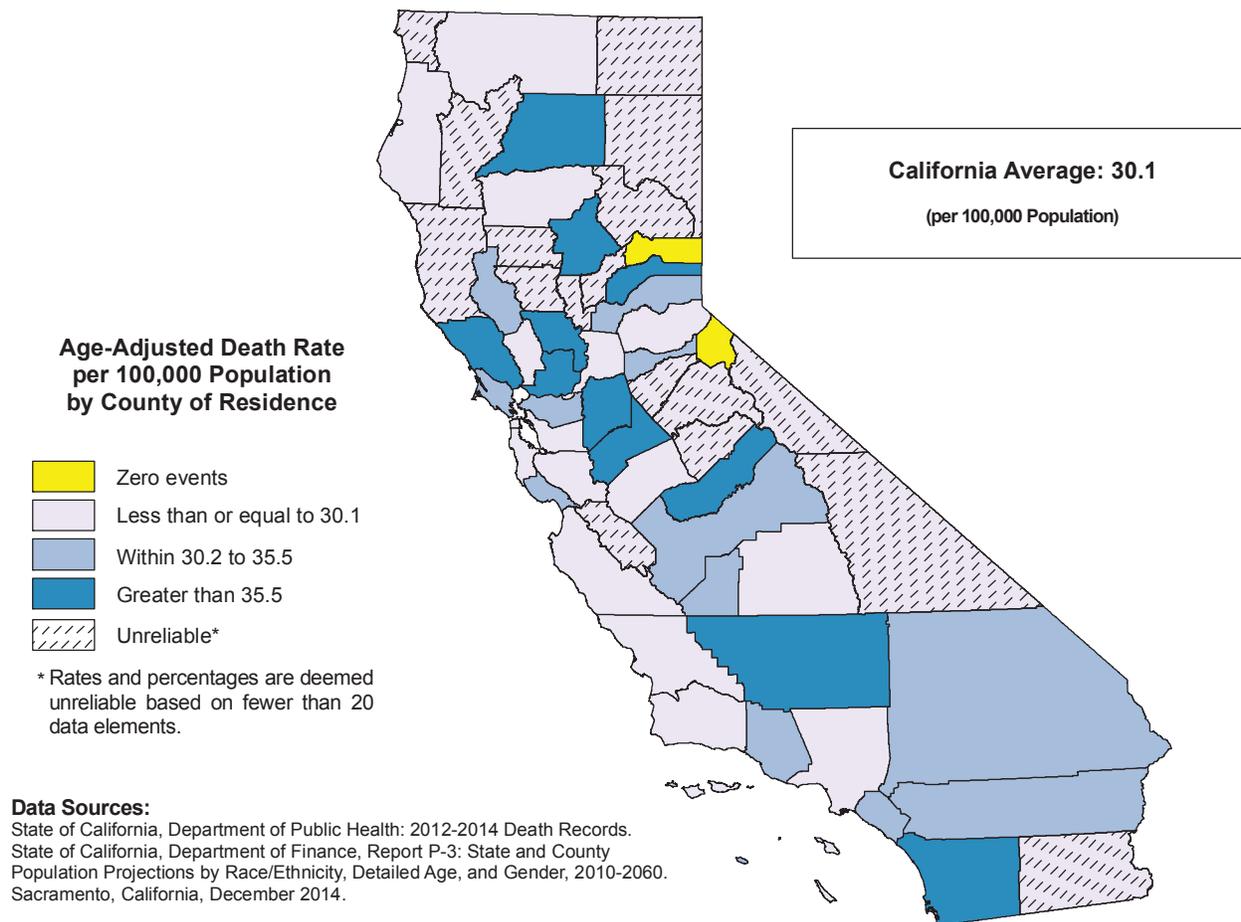
- Rates, percentages, and confidence limits are not calculated for zero events.

Note: Counties were rank ordered first by increasing age-adjusted death rate (calculated to 15 decimal places), second by decreasing population count.

Sources: State of California, Department of Public Health: 2012-2014 Death Records.

State of California, Department of Finance, Report P-3: State and County Population Projections by Race/Ethnicity, Detailed Age, and Gender, 2010-2060. Sacramento, California, December 2014.

DEATHS DUE TO ALZHEIMER'S DISEASE, 2012-2014



The crude death rate from Alzheimer's disease for California was 31.5 deaths per 100,000 population, a risk of dying from Alzheimer's disease equivalent to approximately one death for every 3,172.1 persons. The crude death rate for California was based on a 2012 through 2014 three-year average number of deaths equaling 12,043.3 and a population count of 38,202,206 as of July 1, 2013. Among counties with reliable rates, the crude death rate ranged from 67.5 in Nevada County to 17.9 in Tulare County, a factor of 3.8 to 1.

The age-adjusted death rate from Alzheimer's disease for California during the 2012 through 2014 three-year period was 30.1 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 53.0 in San Joaquin County to 18.9 in Santa Clara County. However, CDPH has identified significant changes in reporting practice among certifiers in Santa Clara County that have affected this rate. See technical notes for further detail.

A Healthy People 2020 National Objective for deaths due to Alzheimer's disease has not been established.

The California age-adjusted death rate from Alzheimer's disease for the 2009-2011 period was 29.5 per 100,000 population.

**TABLE 8
DEATHS DUE TO ALZHEIMER'S DISEASE
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE
CALIFORNIA COUNTIES, 2012-2014**

| RANK ORDER | COUNTY OF RESIDENCE | 2013 POPULATION | 2012-2014 DEATHS (AVERAGE) | CRUDE DEATH RATE | AGE-ADJUSTED DEATH RATE | 95% CONFIDENCE LIMITS | |
|--|---------------------|-------------------|----------------------------|------------------|-------------------------|-----------------------|-------------|
| | | | | | | LOWER | UPPER |
| HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: NOT ESTABLISHED | | | | | | | |
| 1 | SIERRA | 3,270 | 0.0 | - | - | - | - |
| 2 | ALPINE | 1,228 | 0.0 | - | - | - | - |
| 3 | INYO | 19,241 | 0.7 | 3.5 * | 1.7 * | 0.0 | 12.6 |
| 4 | MONO | 14,376 | 0.3 | 2.3 * | 3.4 * | 0.0 | 45.1 |
| 5 | MODOC | 9,457 | 0.7 | 7.0 * | 4.5 * | 0.0 | 33.5 |
| 6 | IMPERIAL | 179,326 | 15.0 | 8.4 * | 9.2 * | 5.2 | 15.2 |
| 7 | SAN BENITO | 57,366 | 5.0 | 8.7 * | 9.6 * | 3.1 | 22.4 |
| 8 | LASSEN | 34,966 | 3.3 | 9.5 * | 10.7 * | 2.5 | 29.9 |
| 9 | TUOLUMNE | 54,811 | 11.0 | 20.1 * | 11.0 * | 5.5 | 19.6 |
| 10 | DEL NORTE | 28,530 | 4.3 | 15.2 * | 13.2 * | 3.8 | 32.6 |
| 11 | COLUSA | 21,987 | 3.3 | 15.2 * | 14.7 * | 3.4 | 40.9 |
| 12 | MENDOCINO | 88,931 | 19.7 | 22.1 * | 16.4 * | 10.0 | 25.4 |
| 13 | CALAVERAS | 45,214 | 13.0 | 28.8 * | 17.1 * | 9.1 | 29.2 |
| 14 | PLUMAS | 19,466 | 5.7 | 29.1 * | 17.2 * | 6.1 | 38.3 |
| 15 | SUTTER | 97,386 | 19.0 | 19.5 * | 18.5 * | 11.1 | 28.8 |
| 16 | SANTA CLARA | 1,850,595 | 368.7 | 19.9 | 18.9 | 17.0 | 20.9 |
| 17 | YUBA | 73,600 | 11.0 | 14.9 * | 19.3 * | 9.6 | 34.5 |
| 18 | SAN LUIS OBISPO | 271,740 | 79.3 | 29.2 | 19.3 | 15.3 | 24.0 |
| 19 | MARIPOSA | 18,101 | 6.3 | 35.0 * | 19.4 * | 7.4 | 41.5 |
| 20 | MONTEREY | 424,119 | 85.7 | 20.2 | 19.9 | 15.9 | 24.5 |
| 21 | GLENN | 28,599 | 7.7 | 26.8 * | 22.6 * | 9.5 | 45.1 |
| 22 | TULARE | 456,075 | 81.7 | 17.9 | 22.9 | 18.2 | 28.5 |
| 23 | TRINITY | 13,776 | 5.3 | 38.7 * | 23.7 * | 8.0 | 53.8 |
| 24 | LOS ANGELES | 10,010,961 | 2,648.0 | 26.5 | 26.0 | 25.0 | 27.0 |
| 25 | EL DORADO | 184,054 | 60.0 | 32.6 | 26.1 | 19.9 | 33.6 |
| 26 | HUMBOLDT | 136,480 | 40.0 | 29.3 | 26.3 | 18.8 | 35.8 |
| 27 | TEHAMA | 64,498 | 21.3 | 33.1 | 26.4 | 16.4 | 40.3 |
| 28 | ALAMEDA | 1,563,370 | 438.0 | 28.0 | 26.6 | 24.1 | 29.2 |
| 29 | SAN FRANCISCO | 833,827 | 317.0 | 38.0 | 26.9 | 23.9 | 29.9 |
| 30 | MERCED | 263,441 | 55.0 | 20.9 | 27.1 | 20.4 | 35.2 |
| 31 | SAN MATEO | 741,857 | 286.3 | 38.6 | 28.2 | 24.9 | 31.6 |
| 32 | SISKIYOU | 45,215 | 21.7 | 47.9 | 28.4 | 17.7 | 43.2 |
| 33 | NAPA | 139,831 | 59.7 | 42.7 | 28.8 | 22.0 | 37.1 |
| 34 | SACRAMENTO | 1,448,268 | 422.3 | 29.2 | 29.1 | 26.3 | 31.9 |
| 35 | SANTA BARBARA | 433,157 | 173.0 | 39.9 | 29.6 | 25.1 | 34.1 |
| | CALIFORNIA | 38,202,206 | 12,043.3 | 31.5 | 30.1 | 29.5 | 30.6 |
| 36 | LAKE | 64,782 | 27.3 | 42.2 | 30.2 | 20.0 | 43.9 |
| 37 | RIVERSIDE | 2,264,173 | 703.3 | 31.1 | 30.5 | 28.3 | 32.8 |
| 38 | VENTURA | 839,617 | 291.0 | 34.7 | 31.7 | 28.0 | 35.4 |
| 39 | PLACER | 365,125 | 167.7 | 45.9 | 32.6 | 27.6 | 37.6 |
| 40 | SAN BERNARDINO | 2,075,160 | 478.7 | 23.1 | 32.7 | 29.8 | 35.7 |
| 41 | CONTRA COSTA | 1,081,862 | 414.0 | 38.3 | 33.2 | 30.0 | 36.4 |
| 42 | AMADOR | 36,945 | 24.3 | 65.9 | 34.1 | 21.9 | 50.6 |
| 43 | SANTA CRUZ | 271,495 | 97.7 | 36.0 | 34.2 | 27.7 | 41.7 |
| 44 | ORANGE | 3,097,966 | 1,170.0 | 37.8 | 34.6 | 32.6 | 36.6 |
| 45 | FRESNO | 958,260 | 300.0 | 31.3 | 35.1 | 31.1 | 39.1 |
| 46 | MARIN | 256,264 | 149.7 | 58.4 | 35.3 | 29.5 | 41.0 |
| 47 | KINGS | 152,456 | 35.7 | 23.4 | 35.5 | 24.8 | 49.2 |
| 48 | YOLO | 206,621 | 69.0 | 33.4 | 35.7 | 27.8 | 45.2 |
| 49 | SAN DIEGO | 3,184,072 | 1,253.0 | 39.4 | 36.0 | 34.0 | 38.1 |
| 50 | NEVADA | 98,317 | 66.3 | 67.5 | 36.4 | 28.2 | 46.3 |
| 51 | MADERA | 153,409 | 53.0 | 34.5 | 38.2 | 28.6 | 49.9 |
| 52 | KERN | 869,797 | 233.0 | 26.8 | 39.5 | 34.4 | 44.6 |
| 53 | SONOMA | 493,070 | 272.0 | 55.2 | 40.3 | 35.4 | 45.2 |
| 54 | STANISLAUS | 527,232 | 192.7 | 36.5 | 40.8 | 35.0 | 46.5 |
| 55 | SOLANO | 424,048 | 174.0 | 41.0 | 42.1 | 35.8 | 48.4 |
| 56 | BUTTE | 222,035 | 138.0 | 62.2 | 42.8 | 35.5 | 50.0 |
| 57 | SHASTA | 178,591 | 109.7 | 61.4 | 43.6 | 35.4 | 51.8 |
| 58 | SAN JOAQUIN | 703,790 | 334.3 | 47.5 | 53.0 | 47.3 | 58.7 |

* Rates are deemed unreliable based on fewer than 20 data elements.

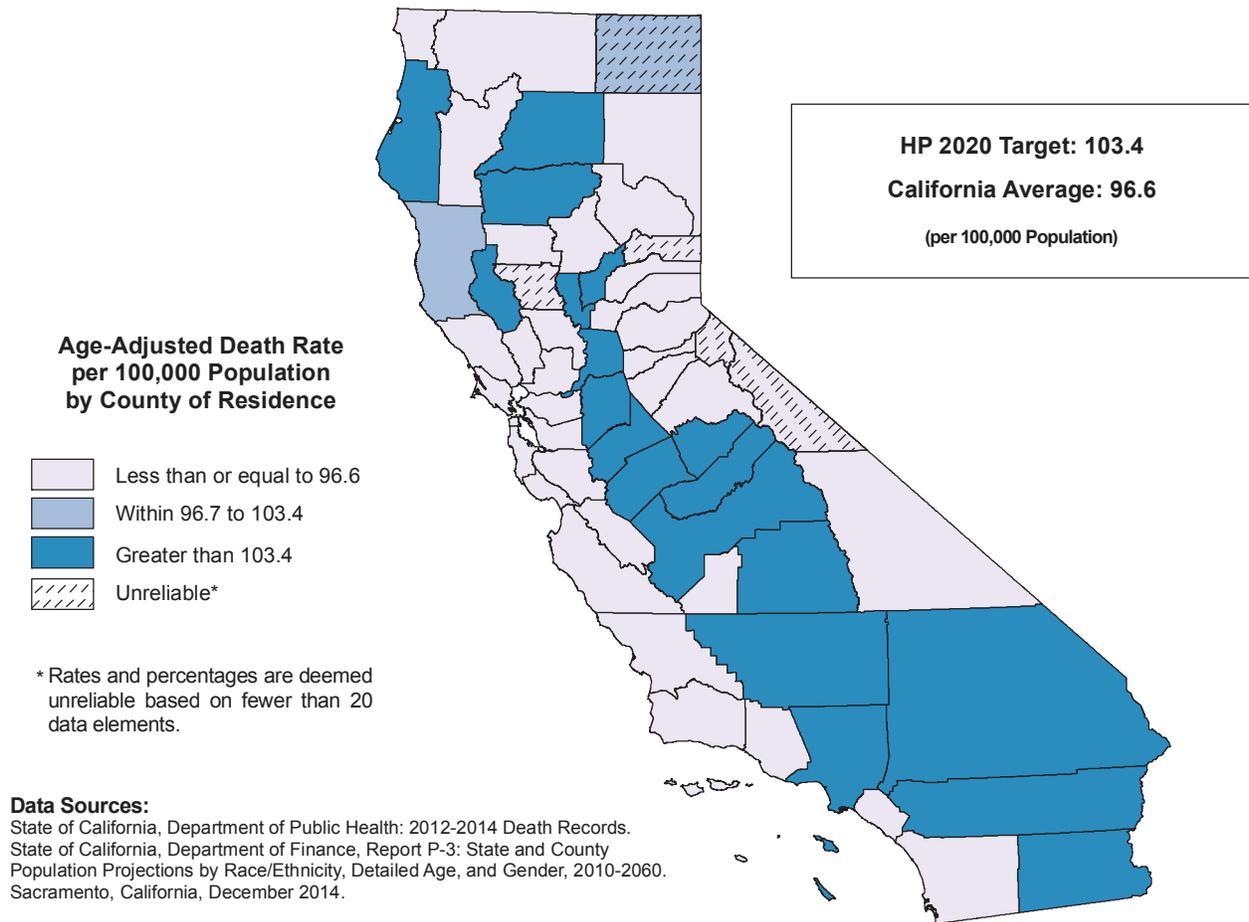
- Rates, percentages, and confidence limits are not calculated for zero events.

Note: Counties were rank ordered first by increasing age-adjusted death rate (calculated to 15 decimal places), second by decreasing population count.

Sources: State of California, Department of Public Health: 2012-2014 Death Records.

State of California, Department of Finance, Report P-3: State and County Population Projections by Race/Ethnicity, Detailed Age, and Gender, 2010-2060. Sacramento, California, December 2014.

DEATHS DUE TO CORONARY HEART DISEASE, 2012-2014



The crude death rate from coronary heart disease for California was 100.9 deaths per 100,000 population, a risk of dying from coronary heart disease equivalent to approximately one death for every 991.1 persons. The crude death rate for California was based on a 2012 through 2014 three-year average number of deaths equaling 38,543.3 and a population count of 38,202,206 as of July 1, 2013. Among counties with reliable rates, the crude death rate ranged from 200.7 in Mariposa County to 61.6 in San Benito County, a factor of 3.3 to 1.

The age-adjusted death rate from coronary heart disease for California during the 2012 through 2014 three-year period was 96.6 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 146.5 in Yuba County to 56.2 in Marin County.

Thirty-four counties with reliable age-adjusted death rates and California as a whole met the Healthy People 2020 National Objective HDS-2 of no more than 103.4 age adjusted deaths due to coronary heart disease per 100,000 population. An additional five counties with unreliable rates met the objective.

The California age-adjusted death rate from coronary heart disease for the 2009-2011 period was 109.2 per 100,000 population.

**TABLE 9
DEATHS DUE TO CORONARY HEART DISEASE
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE
CALIFORNIA COUNTIES, 2012-2014**

| RANK ORDER | COUNTY OF RESIDENCE | 2013 POPULATION | 2012-2014 DEATHS (AVERAGE) | CRUDE DEATH RATE | AGE-ADJUSTED DEATH RATE | 95% CONFIDENCE LIMITS | | |
|------------|--|-------------------|----------------------------|------------------|-------------------------|-----------------------|-------------|--|
| | | | | | | LOWER | UPPER | |
| 1 | ALPINE | 1,228 | 1.0 | 81.4 * | 38.0 * | 1.0 | 212.0 | |
| 2 | MONO | 14,376 | 5.3 | 37.1 * | 45.6 * | 15.5 | 103.7 | |
| 3 | MARIN | 256,264 | 231.0 | 90.1 | 56.2 | 48.8 | 63.7 | |
| 4 | SAN FRANCISCO | 833,827 | 664.0 | 79.6 | 61.0 | 56.3 | 65.8 | |
| 5 | SAN MATEO | 741,857 | 608.0 | 82.0 | 64.3 | 59.1 | 69.5 | |
| 6 | SAN BENITO | 57,366 | 35.3 | 61.6 | 64.9 | 45.3 | 90.2 | |
| 7 | SANTA CLARA | 1,850,595 | 1,269.0 | 68.6 | 66.0 | 62.3 | 69.7 | |
| 8 | CONTRA COSTA | 1,081,862 | 830.7 | 76.8 | 66.6 | 62.0 | 71.2 | |
| 9 | SIERRA | 3,270 | 4.7 | 142.7 * | 67.9 * | 21.0 | 163.0 | |
| 10 | MONTEREY | 424,119 | 294.3 | 69.4 | 68.6 | 60.6 | 76.6 | |
| 11 | ALAMEDA | 1,563,370 | 1,138.0 | 72.8 | 69.4 | 65.3 | 73.5 | |
| 12 | INYO | 19,241 | 23.7 | 123.0 | 69.7 | 44.5 | 104.0 | |
| 13 | SAN LUIS OBISPO | 271,740 | 275.0 | 101.2 | 70.6 | 62.1 | 79.1 | |
| 14 | SOLANO | 424,048 | 311.7 | 73.5 | 71.5 | 63.5 | 79.6 | |
| 15 | COLUSA | 21,987 | 16.3 | 74.3 * | 72.6 * | 41.8 | 117.4 | |
| 16 | YOLO | 206,621 | 141.7 | 68.6 | 75.8 | 63.1 | 88.5 | |
| 17 | SANTA CRUZ | 271,495 | 216.0 | 79.6 | 76.0 | 65.5 | 86.4 | |
| 18 | NAPA | 139,831 | 152.0 | 108.7 | 77.4 | 64.8 | 90.0 | |
| 19 | LASSEN | 34,966 | 26.3 | 75.3 | 79.1 | 51.8 | 115.6 | |
| 20 | VENTURA | 839,617 | 739.7 | 88.1 | 79.8 | 74.0 | 85.7 | |
| 21 | SONOMA | 493,070 | 524.7 | 106.4 | 80.3 | 73.2 | 87.3 | |
| 22 | SANTA BARBARA | 433,157 | 440.0 | 101.6 | 82.6 | 74.7 | 90.5 | |
| 23 | EL DORADO | 184,054 | 200.7 | 109.0 | 83.1 | 71.3 | 94.8 | |
| 24 | PLACER | 365,125 | 416.0 | 113.9 | 83.4 | 75.3 | 91.5 | |
| 25 | PLUMAS | 19,466 | 29.3 | 150.7 | 86.2 | 57.9 | 123.6 | |
| 26 | GLENN | 28,599 | 30.0 | 104.9 | 86.4 | 58.3 | 123.4 | |
| 27 | SAN DIEGO | 3,184,072 | 2,986.7 | 93.8 | 88.8 | 85.6 | 92.1 | |
| 28 | DEL NORTE | 28,530 | 30.3 | 106.3 | 89.8 | 60.7 | 127.9 | |
| 29 | NEVADA | 98,317 | 155.0 | 157.7 | 91.1 | 76.0 | 106.1 | |
| 30 | ORANGE | 3,097,966 | 3,059.7 | 98.8 | 91.7 | 88.4 | 95.0 | |
| 31 | TUOLUMNE | 54,811 | 87.3 | 159.3 | 92.8 | 74.4 | 114.4 | |
| 32 | SISKIYOU | 45,215 | 68.7 | 151.9 | 94.6 | 73.6 | 119.8 | |
| 33 | BUTTE | 222,035 | 287.3 | 129.4 | 94.7 | 83.5 | 106.0 | |
| 34 | TRINITY | 13,776 | 21.7 | 157.3 | 95.3 | 59.5 | 144.7 | |
| 35 | CALAVERAS | 45,214 | 73.0 | 161.5 | 95.8 | 75.1 | 120.5 | |
| 36 | KINGS | 152,456 | 107.3 | 70.4 | 96.5 | 78.0 | 115.0 | |
| 37 | AMADOR | 36,945 | 64.7 | 175.0 | 96.6 | 74.5 | 123.2 | |
| | CALIFORNIA | 38,202,206 | 38,543.3 | 100.9 | 96.6 | 95.6 | 97.5 | |
| 38 | MODOC | 9,457 | 16.0 | 169.2 * | 99.7 * | 57.0 | 161.8 | |
| 39 | MENDOCINO | 88,931 | 123.3 | 138.7 | 99.7 | 81.6 | 117.9 | |
| | HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: HDS-2 | | | | | 103.4 | | |
| 40 | SACRAMENTO | 1,448,268 | 1,557.3 | 107.5 | 105.6 | 100.3 | 110.9 | |
| 41 | TEHAMA | 64,498 | 87.7 | 135.9 | 105.6 | 84.7 | 130.2 | |
| 42 | HUMBOLDT | 136,480 | 170.0 | 124.6 | 106.0 | 89.7 | 122.2 | |
| 43 | SAN JOAQUIN | 703,790 | 688.7 | 97.9 | 106.3 | 98.2 | 114.3 | |
| 44 | IMPERIAL | 179,326 | 174.7 | 97.4 | 107.3 | 91.3 | 123.2 | |
| 45 | FRESNO | 958,260 | 972.3 | 101.5 | 113.2 | 106.0 | 120.4 | |
| 46 | SAN BERNARDINO | 2,075,160 | 1,810.7 | 87.3 | 113.4 | 108.0 | 118.7 | |
| 47 | LOS ANGELES | 10,010,961 | 11,541.3 | 115.3 | 113.6 | 111.5 | 115.7 | |
| 48 | RIVERSIDE | 2,264,173 | 2,647.3 | 116.9 | 113.9 | 109.6 | 118.3 | |
| 49 | MARIPOSA | 18,101 | 36.3 | 200.7 | 115.3 | 80.9 | 159.4 | |
| 50 | SHASTA | 178,591 | 294.3 | 164.8 | 118.6 | 104.8 | 132.4 | |
| 51 | MERCED | 263,441 | 254.3 | 96.5 | 119.0 | 104.2 | 133.7 | |
| 52 | SUTTER | 97,386 | 125.0 | 128.4 | 120.6 | 99.4 | 141.9 | |
| 53 | MADERA | 153,409 | 178.7 | 116.5 | 122.6 | 104.4 | 140.7 | |
| 54 | TULARE | 456,075 | 458.3 | 100.5 | 124.5 | 113.0 | 136.0 | |
| 55 | LAKE | 64,782 | 123.3 | 190.4 | 133.0 | 108.8 | 157.2 | |
| 56 | KERN | 869,797 | 906.7 | 104.2 | 136.9 | 127.8 | 145.9 | |
| 57 | STANISLAUS | 527,232 | 717.3 | 136.1 | 146.3 | 135.5 | 157.1 | |
| 58 | YUBA | 73,600 | 93.7 | 127.3 | 146.5 | 118.4 | 179.4 | |

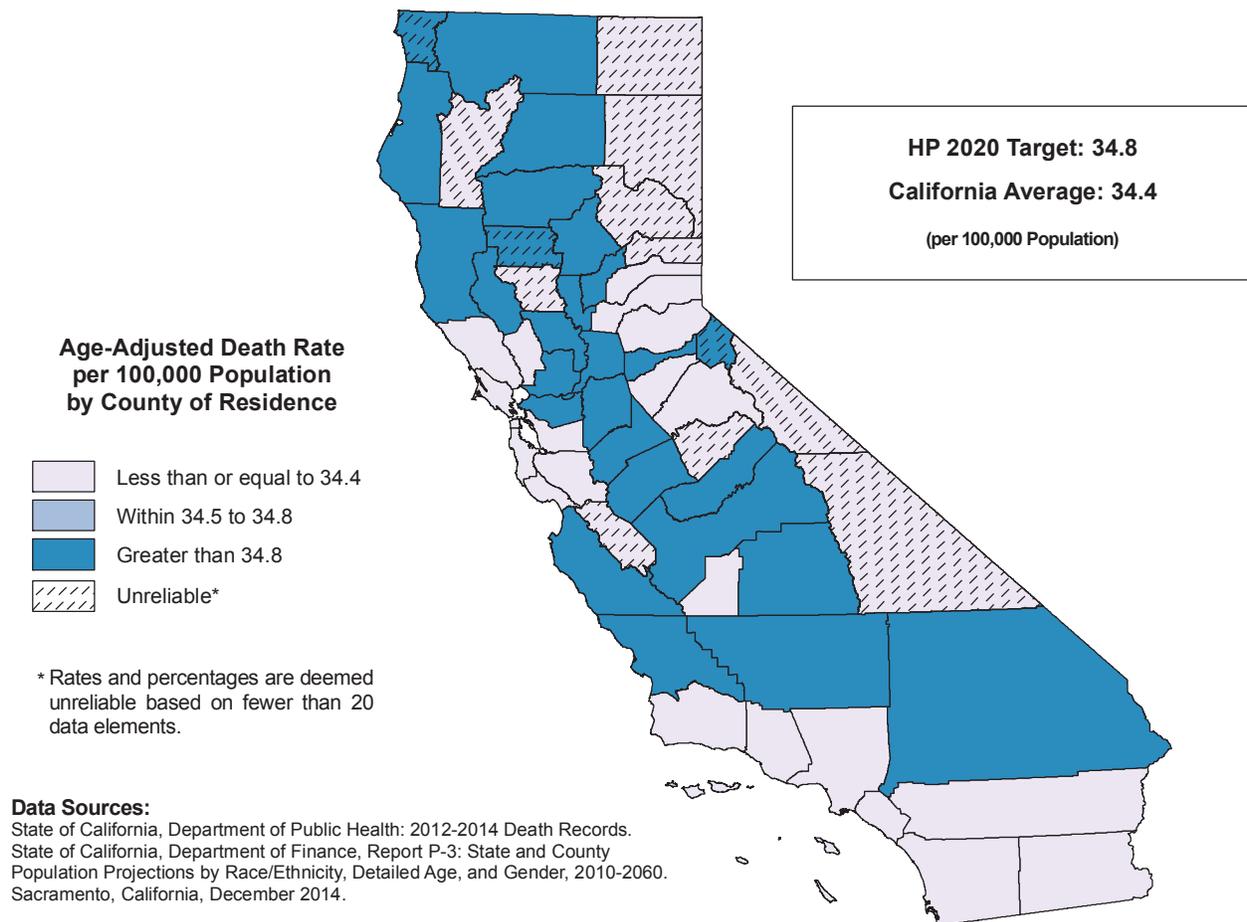
* Rates are deemed unreliable based on fewer than 20 data elements.

Note: Counties were rank ordered first by increasing age-adjusted death rate (calculated to 15 decimal places), second by decreasing population count.

Sources: State of California, Department of Public Health: 2012-2014 Death Records.

State of California, Department of Finance, Report P-3: State and County Population Projections by Race/Ethnicity, Detailed Age, and Gender, 2010-2060. Sacramento, California, December 2014.

DEATHS DUE TO CEREBROVASCULAR DISEASE (STROKE), 2012-2014



The crude death rate from cerebrovascular disease for California was 35.5 deaths per 100,000 population, a risk of dying from cerebrovascular disease equivalent to approximately one death for every 2,814.4 persons. The crude death rate for California was based on a 2012 through 2014 three-year average number of deaths equaling 13,574.0 and a population count of 38,202,206 as of July 1, 2013. Among counties with reliable rates, the crude death rate ranged from 75.9 in San Luis Obispo County to 23.6 in Kings County, a factor of 3.2 to 1.

The age-adjusted death rate from cerebrovascular disease for California during the 2012 through 2014 three-year period was 34.4 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 62.2 in Humboldt County to 22.3 in El Dorado County.

Twenty-one counties with reliable age-adjusted death rates and California as a whole met the Healthy People 2020 National Objective HDS-3 of no more than 34.8 age-adjusted deaths due to cerebrovascular disease per 100,000 population. An additional ten counties with unreliable rates met the objective.

The California age-adjusted death rate from cerebrovascular disease for the 2009-2011 period was 37.2 per 100,000 population.

**TABLE 10
DEATHS DUE TO CEREBROVASCULAR DISEASE (STROKE)
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE
CALIFORNIA COUNTIES, 2012-2014**

| RANK ORDER | COUNTY OF RESIDENCE | 2013 POPULATION | 2012-2014 DEATHS (AVERAGE) | CRUDE DEATH RATE | AGE-ADJUSTED DEATH RATE | 95% CONFIDENCE LIMITS | | |
|------------|--|-------------------|----------------------------|------------------|-------------------------|-----------------------|-------------|--|
| | | | | | | LOWER | UPPER | |
| 1 | MONO | 14,376 | 2.0 | 13.9* | 17.6* | 2.1 | 63.6 | |
| 2 | SIERRA | 3,270 | 1.3 | 40.8* | 21.6* | 1.2 | 99.5 | |
| 3 | EL DORADO | 184,054 | 53.0 | 28.8 | 22.3 | 16.7 | 29.2 | |
| 4 | MARIPOSA | 18,101 | 7.0 | 38.7* | 23.7* | 9.5 | 48.8 | |
| 5 | MARIN | 256,264 | 100.0 | 39.0 | 24.6 | 19.6 | 29.6 | |
| 6 | LASSEN | 34,966 | 7.7 | 21.9* | 24.9* | 10.5 | 49.7 | |
| 7 | SAN MATEO | 741,857 | 240.7 | 32.4 | 25.3 | 22.0 | 28.5 | |
| 8 | SANTA CLARA | 1,850,595 | 485.7 | 26.2 | 25.6 | 23.3 | 27.9 | |
| 9 | COLUSA | 21,987 | 6.3 | 28.8* | 27.4* | 10.4 | 58.6 | |
| 10 | PLACER | 365,125 | 144.7 | 39.6 | 28.9 | 24.1 | 33.6 | |
| 11 | SANTA CRUZ | 271,495 | 81.3 | 30.0 | 28.9 | 23.0 | 35.9 | |
| 12 | PLUMAS | 19,466 | 8.3 | 42.8* | 29.0* | 12.8 | 56.4 | |
| 13 | NEVADA | 98,317 | 49.7 | 50.5 | 29.2 | 21.7 | 38.6 | |
| 14 | CALAVERAS | 45,214 | 24.0 | 53.1 | 29.8 | 19.1 | 44.4 | |
| 15 | SAN FRANCISCO | 833,827 | 318.7 | 38.2 | 29.9 | 26.6 | 33.3 | |
| 16 | IMPERIAL | 179,326 | 50.0 | 27.9 | 30.4 | 22.6 | 40.1 | |
| 17 | TUOLUMNE | 54,811 | 30.0 | 54.7 | 30.4 | 20.5 | 43.5 | |
| 18 | TRINITY | 13,776 | 6.0 | 43.6* | 30.5* | 11.2 | 66.3 | |
| 19 | SAN BENITO | 57,366 | 16.3 | 28.5* | 31.3* | 18.0 | 50.5 | |
| 20 | INYO | 19,241 | 11.0 | 57.2* | 31.9* | 15.9 | 57.0 | |
| 21 | SAN DIEGO | 3,184,072 | 1,088.0 | 34.2 | 32.2 | 30.3 | 34.2 | |
| 22 | MODOC | 9,457 | 5.0 | 52.9* | 32.4* | 10.5 | 75.7 | |
| 23 | KINGS | 152,456 | 36.0 | 23.6 | 32.5 | 22.8 | 45.1 | |
| 24 | VENTURA | 839,617 | 295.7 | 35.2 | 32.6 | 28.8 | 36.4 | |
| 25 | LOS ANGELES | 10,010,961 | 3,293.3 | 32.9 | 32.8 | 31.7 | 34.0 | |
| 26 | RIVERSIDE | 2,264,173 | 762.0 | 33.7 | 33.1 | 30.7 | 35.4 | |
| 27 | ORANGE | 3,097,966 | 1,116.3 | 36.0 | 33.9 | 31.9 | 35.9 | |
| 28 | SANTA BARBARA | 433,157 | 180.7 | 41.7 | 34.0 | 28.9 | 39.1 | |
| 29 | SONOMA | 493,070 | 218.7 | 44.3 | 34.2 | 29.5 | 38.8 | |
| 30 | NAPA | 139,831 | 67.3 | 48.2 | 34.3 | 26.6 | 43.6 | |
| 31 | ALAMEDA | 1,563,370 | 557.7 | 35.7 | 34.4 | 31.5 | 37.3 | |
| | CALIFORNIA | 38,202,206 | 13,574.0 | 35.5 | 34.4 | 33.8 | 35.0 | |
| | HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: HDS-3 | | | | | | 34.8 | |
| 32 | YOLO | 206,621 | 67.3 | 32.6 | 35.1 | 27.2 | 44.6 | |
| 33 | ALPINE | 1,228 | 0.7 | 54.3* | 35.4* | 0.2 | 264.3 | |
| 34 | AMADOR | 36,945 | 25.0 | 67.7 | 36.2 | 23.4 | 53.4 | |
| 35 | GLENN | 28,599 | 12.0 | 42.0* | 36.2* | 18.7 | 63.2 | |
| 36 | SISKIYOU | 45,215 | 26.7 | 59.0 | 36.6 | 24.1 | 53.4 | |
| 37 | MONTEREY | 424,119 | 156.7 | 36.9 | 36.7 | 30.8 | 42.6 | |
| 38 | MENDOCINO | 88,931 | 45.3 | 51.0 | 37.9 | 27.7 | 50.7 | |
| 39 | BUTTE | 222,035 | 117.3 | 52.8 | 38.1 | 31.0 | 45.2 | |
| 40 | SOLANO | 424,048 | 162.7 | 38.4 | 38.2 | 32.3 | 44.1 | |
| 41 | CONTRA COSTA | 1,081,862 | 474.3 | 43.8 | 38.4 | 34.9 | 41.9 | |
| 42 | SUTTER | 97,386 | 40.3 | 41.4 | 38.6 | 27.6 | 52.5 | |
| 43 | KERN | 869,797 | 255.0 | 29.3 | 38.9 | 34.0 | 43.7 | |
| 44 | SAN BERNARDINO | 2,075,160 | 620.0 | 29.9 | 39.0 | 35.9 | 42.2 | |
| 45 | SACRAMENTO | 1,448,268 | 577.7 | 39.9 | 39.8 | 36.5 | 43.1 | |
| 46 | DEL NORTE | 28,530 | 12.7 | 44.4* | 40.5* | 21.4 | 69.7 | |
| 47 | MADERA | 153,409 | 58.7 | 38.2 | 41.1 | 31.2 | 53.0 | |
| 48 | MERCED | 263,441 | 88.7 | 33.7 | 41.5 | 33.3 | 51.1 | |
| 49 | LAKE | 64,782 | 40.0 | 61.7 | 42.6 | 30.4 | 58.0 | |
| 50 | TULARE | 456,075 | 158.0 | 34.6 | 42.7 | 36.0 | 49.4 | |
| 51 | SHASTA | 178,591 | 105.7 | 59.2 | 43.1 | 34.7 | 51.5 | |
| 52 | TEHAMA | 64,498 | 36.3 | 56.3 | 44.6 | 31.3 | 61.7 | |
| 53 | STANISLAUS | 527,232 | 214.7 | 40.7 | 44.7 | 38.6 | 50.7 | |
| 54 | FRESNO | 958,260 | 386.0 | 40.3 | 45.5 | 40.9 | 50.1 | |
| 55 | SAN JOAQUIN | 703,790 | 293.7 | 41.7 | 45.8 | 40.5 | 51.2 | |
| 56 | YUBA | 73,600 | 30.7 | 41.7 | 50.1 | 34.0 | 71.3 | |
| 57 | SAN LUIS OBISPO | 271,740 | 206.3 | 75.9 | 51.8 | 44.6 | 59.0 | |
| 58 | HUMBOLDT | 136,480 | 97.3 | 71.3 | 62.2 | 50.4 | 75.8 | |

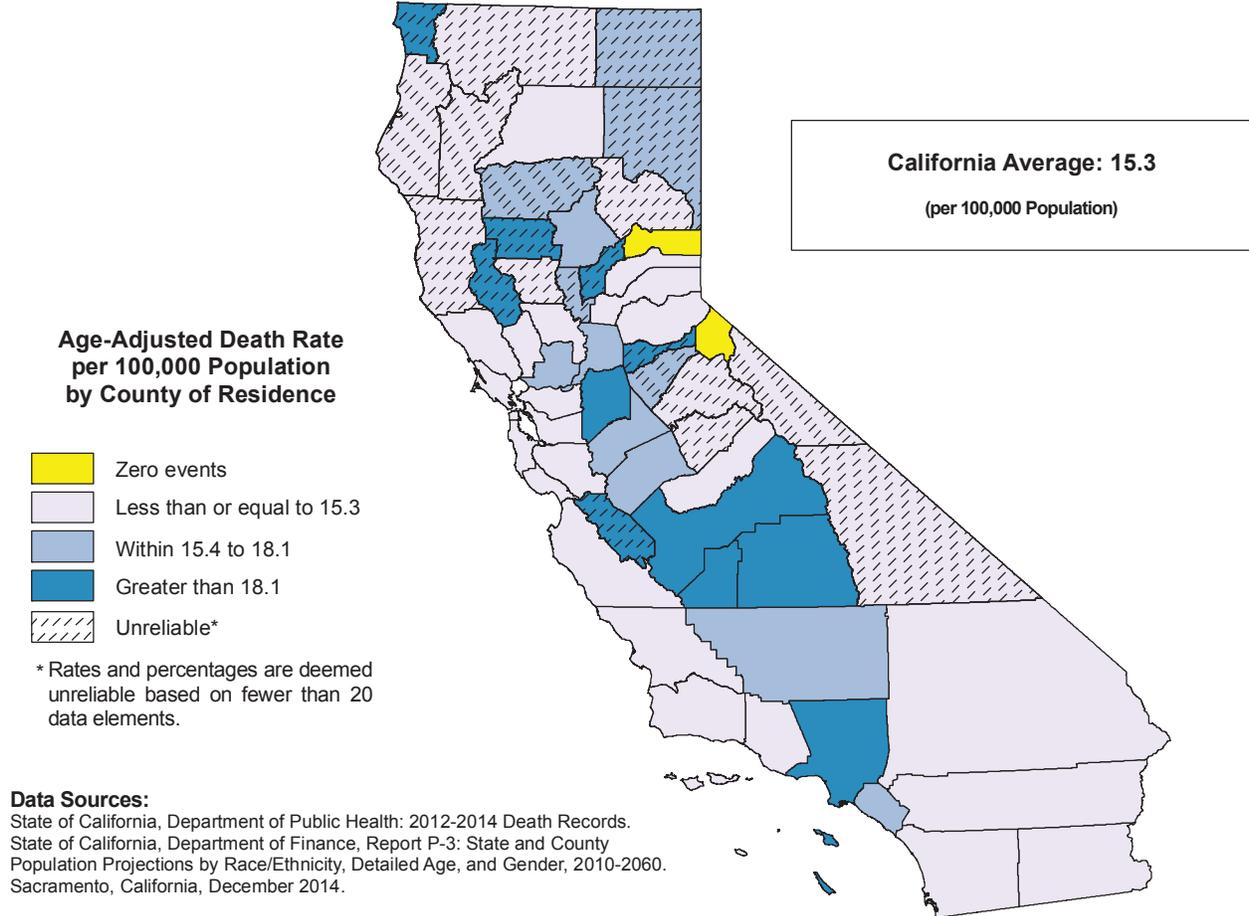
* Rates are deemed unreliable based on fewer than 20 data elements.

Note: Counties were rank ordered first by increasing age-adjusted death rate (calculated to 15 decimal places), second by decreasing population count.

Sources: State of California, Department of Public Health: 2012-2014 Death Records.

State of California, Department of Finance, Report P-3: State and County Population Projections by Race/Ethnicity, Detailed Age, and Gender, 2010-2060. Sacramento, California, December 2014.

DEATHS DUE TO INFLUENZA/PNEUMONIA, 2012-2014



The crude death rate from influenza/pneumonia for California was 16.0 deaths per 100,000 population, a risk of dying from influenza/pneumonia equivalent to approximately one death for every 6,268.1 persons. The crude death rate for California was based on a 2012 through 2014 three-year average number of deaths equaling 6,094.7 and a population count of 38,202,206 as of July 1, 2013. Among counties with reliable rates, the crude death rate ranged from 22.4 in Nevada County to 9.8 in San Diego County, a factor of 2.3 to 1.

The age-adjusted death rate from influenza/pneumonia for California during the 2012 through 2014 three-year period was 15.3 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 23.3 in Tulare County to 8.9 in Sonoma County.

A Healthy People 2020 National Objective for deaths due to influenza/pneumonia has not been established.

The California age-adjusted death rate from influenza/pneumonia for the 2009-2011 period was 16.9 per 100,000 population.

**TABLE 11
DEATHS DUE TO INFLUENZA/PNEUMONIA
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE
CALIFORNIA COUNTIES, 2012-2014**

| RANK ORDER | COUNTY OF RESIDENCE | 2013 POPULATION | 2012-2014 DEATHS (AVERAGE) | CRUDE DEATH RATE | AGE-ADJUSTED DEATH RATE | 95% CONFIDENCE LIMITS | |
|--|---------------------|-------------------|----------------------------|------------------|-------------------------|-----------------------|-------------|
| | | | | | | LOWER | UPPER |
| HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: NOT ESTABLISHED | | | | | | | |
| 1 | SIERRA | 3,270 | 0.0 | - | - | - | - |
| 2 | ALPINE | 1,228 | 0.0 | - | - | - | - |
| 3 | MONO | 14,376 | 0.7 | 4.6 * | 5.5 * | 0.0 | 40.8 |
| 4 | INYO | 19,241 | 2.0 | 10.4 * | 5.8 * | 0.7 | 20.9 |
| 5 | COLUSA | 21,987 | 1.7 | 7.6 * | 6.8 * | 0.6 | 27.3 |
| 6 | HUMBOLDT | 136,480 | 12.3 | 9.0 * | 7.6 * | 4.0 | 13.1 |
| 7 | TRINITY | 13,776 | 2.0 | 14.5 * | 8.8 * | 1.1 | 31.9 |
| 8 | SONOMA | 493,070 | 59.0 | 12.0 | 8.9 | 6.8 | 11.5 |
| 9 | SAN DIEGO | 3,184,072 | 313.0 | 9.8 | 9.1 | 8.1 | 10.2 |
| 10 | MARIN | 256,264 | 39.3 | 15.3 | 9.2 | 6.6 | 12.6 |
| 11 | VENTURA | 839,617 | 85.0 | 10.1 | 9.3 | 7.5 | 11.5 |
| 12 | MARIPOSA | 18,101 | 3.0 | 16.6 * | 9.4 * | 1.9 | 27.5 |
| 13 | SAN LUIS OBISPO | 271,740 | 37.7 | 13.9 | 9.4 | 6.6 | 12.9 |
| 14 | CONTRA COSTA | 1,081,862 | 120.3 | 11.1 | 9.8 | 8.0 | 11.5 |
| 15 | PLACER | 365,125 | 49.7 | 13.6 | 9.8 | 7.3 | 13.0 |
| 16 | SANTA BARBARA | 433,157 | 57.7 | 13.3 | 10.9 | 8.2 | 14.0 |
| 17 | SANTA CRUZ | 271,495 | 33.7 | 12.4 | 11.3 | 7.8 | 15.9 |
| 18 | RIVERSIDE | 2,264,173 | 261.0 | 11.5 | 11.4 | 10.0 | 12.7 |
| 19 | EL DORADO | 184,054 | 28.0 | 15.2 | 11.6 | 7.7 | 16.8 |
| 20 | SAN FRANCISCO | 833,827 | 131.7 | 15.8 | 11.9 | 9.8 | 14.0 |
| 21 | SANTA CLARA | 1,850,595 | 232.3 | 12.6 | 12.1 | 10.5 | 13.7 |
| 22 | MONTEREY | 424,119 | 51.7 | 12.2 | 12.1 | 9.1 | 15.9 |
| 23 | SHASTA | 178,591 | 30.7 | 17.2 | 12.5 | 8.4 | 17.7 |
| 24 | ALAMEDA | 1,563,370 | 212.3 | 13.6 | 12.9 | 11.2 | 14.7 |
| 25 | SISKIYOU | 45,215 | 8.0 | 17.7 * | 13.0 * | 5.6 | 25.6 |
| 26 | NAPA | 139,831 | 27.0 | 19.3 | 13.1 | 8.7 | 19.1 |
| 27 | NEVADA | 98,317 | 22.0 | 22.4 | 13.4 | 8.4 | 20.4 |
| 28 | SAN MATEO | 741,857 | 136.3 | 18.4 | 13.7 | 11.4 | 16.0 |
| 29 | TUOLUMNE | 54,811 | 13.3 | 24.3 * | 13.8 * | 7.4 | 23.4 |
| 30 | MENDOCINO | 88,931 | 16.7 | 18.7 * | 14.0 * | 8.1 | 22.5 |
| 31 | YOLO | 206,621 | 28.3 | 13.7 | 14.2 | 9.4 | 20.4 |
| 32 | SAN BERNARDINO | 2,075,160 | 235.0 | 11.3 | 14.4 | 12.5 | 16.3 |
| 33 | PLUMAS | 19,466 | 5.0 | 25.7 * | 14.8 * | 4.8 | 34.4 |
| 34 | IMPERIAL | 179,326 | 24.7 | 13.8 | 14.9 | 9.6 | 22.1 |
| 35 | MADERA | 153,409 | 22.0 | 14.3 | 15.0 | 9.4 | 22.6 |
| | CALIFORNIA | 38,202,206 | 6,094.7 | 16.0 | 15.3 | 14.9 | 15.7 |
| 36 | KERN | 869,797 | 108.0 | 12.4 | 15.7 | 12.7 | 18.8 |
| 37 | SACRAMENTO | 1,448,268 | 232.3 | 16.0 | 15.7 | 13.7 | 17.8 |
| 38 | BUTTE | 222,035 | 49.0 | 22.1 | 15.9 | 11.7 | 21.0 |
| 39 | TEHAMA | 64,498 | 13.0 | 20.2 * | 16.0 * | 8.5 | 27.3 |
| 40 | SUTTER | 97,386 | 17.0 | 17.5 * | 16.2 * | 9.4 | 25.9 |
| 41 | ORANGE | 3,097,966 | 534.0 | 17.2 | 16.2 | 14.8 | 17.6 |
| 42 | CALAVERAS | 45,214 | 13.0 | 28.8 * | 16.7 * | 8.9 | 28.6 |
| 43 | LASSEN | 34,966 | 5.0 | 14.3 * | 16.9 * | 5.5 | 39.5 |
| 44 | MERCED | 263,441 | 37.0 | 14.0 | 17.4 | 12.2 | 23.9 |
| 45 | SOLANO | 424,048 | 76.0 | 17.9 | 17.5 | 13.8 | 21.9 |
| 46 | STANISLAUS | 527,232 | 87.7 | 16.6 | 17.7 | 14.2 | 21.9 |
| 47 | MODOC | 9,457 | 2.7 | 28.2 * | 18.1 * | 3.3 | 56.1 |
| 48 | SAN JOAQUIN | 703,790 | 121.3 | 17.2 | 18.7 | 15.3 | 22.1 |
| 49 | LAKE | 64,782 | 16.3 | 25.2 * | 18.7 * | 10.8 | 30.3 |
| 50 | GLENN | 28,599 | 6.7 | 23.3 * | 20.6 * | 8.0 | 43.1 |
| 51 | FRESNO | 958,260 | 180.0 | 18.8 | 21.0 | 17.9 | 24.2 |
| 52 | LOS ANGELES | 10,010,961 | 2,130.0 | 21.3 | 21.2 | 20.3 | 22.1 |
| 53 | YUBA | 73,600 | 13.7 | 18.6 * | 21.4 * | 11.6 | 36.1 |
| 54 | KINGS | 152,456 | 25.3 | 16.6 | 21.9 | 14.2 | 32.2 |
| 55 | DEL NORTE | 28,530 | 7.0 | 24.5 * | 22.7 * | 9.1 | 46.8 |
| 56 | SAN BENITO | 57,366 | 12.3 | 21.5 * | 22.7 * | 11.9 | 39.4 |
| 57 | TULARE | 456,075 | 87.0 | 19.1 | 23.3 | 18.7 | 28.8 |
| 58 | AMADOR | 36,945 | 17.3 | 46.9 * | 25.0 * | 14.6 | 39.8 |

* Rates are deemed unreliable based on fewer than 20 data elements.

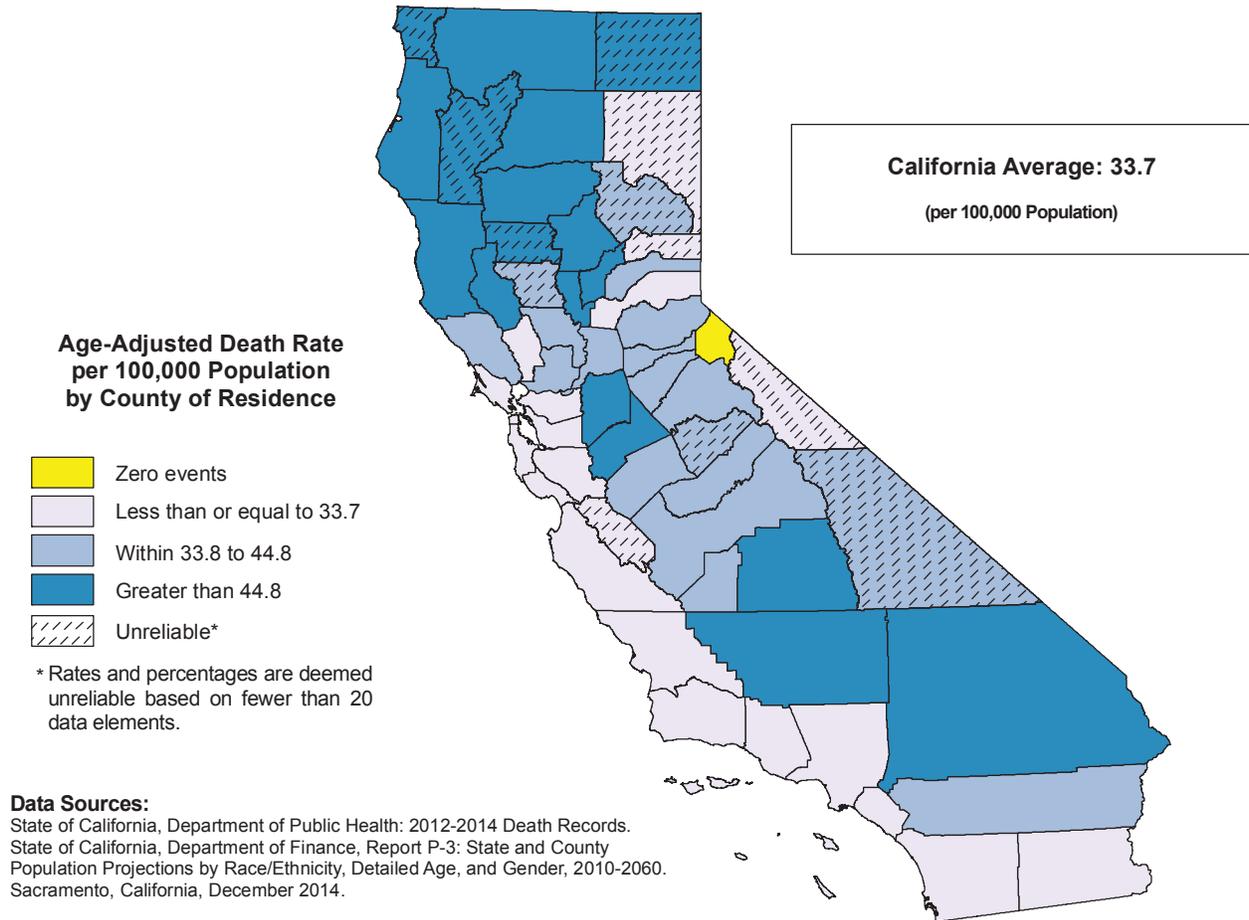
- Rates, percentages, and confidence limits are not calculated for zero events.

Note: Counties were rank ordered first by increasing age-adjusted death rate (calculated to 15 decimal places), second by decreasing population count.

Sources: State of California, Department of Public Health: 2012-2014 Death Records.

State of California, Department of Finance, Report P-3: State and County Population Projections by Race/Ethnicity, Detailed Age, and Gender, 2010-2060. Sacramento, California, December 2014.

DEATHS DUE TO CHRONIC LOWER RESPIRATORY DISEASE, 2012-2014



The crude death rate from chronic lower respiratory disease for California was 34.2 deaths per 100,000 population, a risk of dying from chronic lower respiratory disease equivalent to approximately one death for every 2,922.2 persons. The crude death rate for California was based on a 2012 through 2014 three-year average number of deaths equaling 13,073.0 and a population count of 38,202,206 as of July 1, 2013. Among counties with reliable rates, the crude death rate ranged from 103.0 in Shasta County to 16.9 in Imperial County, a factor of 6.1 to 1.

The age-adjusted death rate from chronic lower respiratory disease for California during the 2012 through 2014 three-year period was 33.7 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 75.6 in Yuba County to 18.8 in San Francisco County.

A Healthy People 2020 National Objective for deaths due to chronic lower respiratory disease has not been established.

The California age-adjusted death rate from chronic lower respiratory disease for the 2009-2011 period was 36.8 per 100,000 population.

**TABLE 12
DEATHS DUE TO CHRONIC LOWER RESPIRATORY DISEASE
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE
CALIFORNIA COUNTIES, 2012-2014**

| RANK ORDER | COUNTY OF RESIDENCE | 2013 POPULATION | 2012-2014 DEATHS (AVERAGE) | CRUDE DEATH RATE | AGE-ADJUSTED DEATH RATE | 95% CONFIDENCE LIMITS | |
|--|---------------------|-------------------|----------------------------|------------------|-------------------------|-----------------------|-------------|
| | | | | | | LOWER | UPPER |
| HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: NOT ESTABLISHED | | | | | | | |
| 1 | ALPINE | 1,228 | 0.0 | - | - | - | - |
| 2 | MONO | 14,376 | 1.3 | 9.3 * | 9.8 * | 0.5 | 45.2 |
| 3 | SAN FRANCISCO | 833,827 | 197.0 | 23.6 | 18.8 | 16.2 | 21.5 |
| 4 | IMPERIAL | 179,326 | 30.3 | 16.9 | 19.1 | 12.9 | 27.2 |
| 5 | MARIN | 256,264 | 79.0 | 30.8 | 19.9 | 15.8 | 24.8 |
| 6 | SAN MATEO | 741,857 | 202.0 | 27.2 | 22.2 | 19.1 | 25.3 |
| 7 | SANTA CLARA | 1,850,595 | 413.7 | 22.4 | 22.2 | 20.0 | 24.4 |
| 8 | SIERRA | 3,270 | 1.3 | 40.8 * | 23.3 * | 1.3 | 107.5 |
| 9 | SANTA BARBARA | 433,157 | 130.7 | 30.2 | 25.3 | 20.9 | 29.8 |
| 10 | ALAMEDA | 1,563,370 | 426.3 | 27.3 | 26.6 | 24.1 | 29.2 |
| 11 | SANTA CRUZ | 271,495 | 76.0 | 28.0 | 27.5 | 21.7 | 34.5 |
| 12 | NAPA | 139,831 | 52.3 | 37.4 | 27.6 | 20.6 | 36.2 |
| 13 | MONTEREY | 424,119 | 112.7 | 26.6 | 27.7 | 22.5 | 32.9 |
| 14 | ORANGE | 3,097,966 | 920.7 | 29.7 | 28.6 | 26.7 | 30.5 |
| 15 | LOS ANGELES | 10,010,961 | 2,850.0 | 28.5 | 28.9 | 27.9 | 30.0 |
| 16 | SAN BENITO | 57,366 | 15.0 | 26.1 * | 28.9 * | 16.2 | 47.7 |
| 17 | VENTURA | 839,617 | 270.3 | 32.2 | 30.6 | 26.9 | 34.2 |
| 18 | LASSEN | 34,966 | 10.0 | 28.6 * | 30.7 * | 14.7 | 56.5 |
| 19 | SAN DIEGO | 3,184,072 | 1,037.3 | 32.6 | 31.9 | 30.0 | 33.9 |
| 20 | CONTRA COSTA | 1,081,862 | 389.7 | 36.0 | 32.3 | 29.0 | 35.5 |
| 21 | PLACER | 365,125 | 162.7 | 44.6 | 33.0 | 27.9 | 38.1 |
| 22 | SAN LUIS OBISPO | 271,740 | 123.3 | 45.4 | 33.4 | 27.4 | 39.4 |
| | CALIFORNIA | 38,202,206 | 13,073.0 | 34.2 | 33.7 | 33.1 | 34.3 |
| 23 | AMADOR | 36,945 | 23.7 | 64.1 | 34.6 | 22.1 | 51.6 |
| 24 | SONOMA | 493,070 | 215.3 | 43.7 | 34.9 | 30.1 | 39.7 |
| 25 | FRESNO | 958,260 | 292.7 | 30.5 | 35.1 | 31.0 | 39.2 |
| 26 | EL DORADO | 184,054 | 85.3 | 46.4 | 35.4 | 28.3 | 43.8 |
| 27 | COLUSA | 21,987 | 8.0 | 36.4 * | 35.8 * | 15.4 | 70.5 |
| 28 | CALAVERAS | 45,214 | 30.0 | 66.4 | 38.6 | 26.0 | 55.1 |
| 29 | KINGS | 152,456 | 42.3 | 27.8 | 38.6 | 27.9 | 52.1 |
| 30 | NEVADA | 98,317 | 68.0 | 69.2 | 40.0 | 31.1 | 50.8 |
| 31 | SOLANO | 424,048 | 172.0 | 40.6 | 40.4 | 34.2 | 46.5 |
| 32 | PLUMAS | 19,466 | 14.0 | 71.9 * | 40.5 * | 22.1 | 68.0 |
| 33 | SACRAMENTO | 1,448,268 | 588.3 | 40.6 | 41.0 | 37.7 | 44.4 |
| 34 | INYO | 19,241 | 14.0 | 72.8 * | 41.9 * | 22.9 | 70.4 |
| 35 | MADERA | 153,409 | 62.0 | 40.4 | 42.3 | 32.4 | 54.2 |
| 36 | MERCED | 263,441 | 88.7 | 33.7 | 42.5 | 34.1 | 52.3 |
| 37 | MARIPOSA | 18,101 | 14.3 | 79.2 * | 42.9 * | 23.6 | 71.5 |
| 38 | RIVERSIDE | 2,264,173 | 992.0 | 43.8 | 43.2 | 40.5 | 45.9 |
| 39 | TUOLUMNE | 54,811 | 42.3 | 77.2 | 43.7 | 31.6 | 59.1 |
| 40 | YOLO | 206,621 | 82.0 | 39.7 | 44.6 | 35.5 | 55.4 |
| 41 | TULARE | 456,075 | 166.7 | 36.5 | 44.9 | 38.0 | 51.8 |
| 42 | TRINITY | 13,776 | 10.7 | 77.4 * | 45.0 * | 22.2 | 81.2 |
| 43 | SAN JOAQUIN | 703,790 | 293.7 | 41.7 | 46.6 | 41.2 | 52.0 |
| 44 | STANISLAUS | 527,232 | 229.0 | 43.4 | 47.0 | 40.9 | 53.2 |
| 45 | MENDOCINO | 88,931 | 58.0 | 65.2 | 47.1 | 35.8 | 60.9 |
| 46 | SUTTER | 97,386 | 50.3 | 51.7 | 48.8 | 36.3 | 64.3 |
| 47 | GLENN | 28,599 | 17.0 | 59.4 * | 49.9 * | 29.0 | 79.8 |
| 48 | BUTTE | 222,035 | 154.0 | 69.4 | 52.0 | 43.7 | 60.4 |
| 49 | HUMBOLDT | 136,480 | 83.3 | 61.1 | 52.9 | 42.1 | 65.5 |
| 50 | SAN BERNARDINO | 2,075,160 | 877.3 | 42.3 | 54.9 | 51.2 | 58.6 |
| 51 | DEL NORTE | 28,530 | 17.3 | 60.8 * | 55.0 * | 32.2 | 87.7 |
| 52 | SISKIYOU | 45,215 | 41.0 | 90.7 | 56.4 | 40.5 | 76.5 |
| 53 | KERN | 869,797 | 374.7 | 43.1 | 56.9 | 51.1 | 62.8 |
| 54 | MODOC | 9,457 | 10.3 | 109.3 * | 64.7 * | 31.4 | 117.8 |
| 55 | TEHAMA | 64,498 | 56.0 | 86.8 | 67.1 | 50.7 | 87.2 |
| 56 | LAKE | 64,782 | 64.7 | 99.8 | 67.3 | 51.9 | 85.9 |
| 57 | SHASTA | 178,591 | 184.0 | 103.0 | 72.7 | 62.1 | 83.4 |
| 58 | YUBA | 73,600 | 48.3 | 65.7 | 75.6 | 55.8 | 100.1 |

* Rates are deemed unreliable based on fewer than 20 data elements.

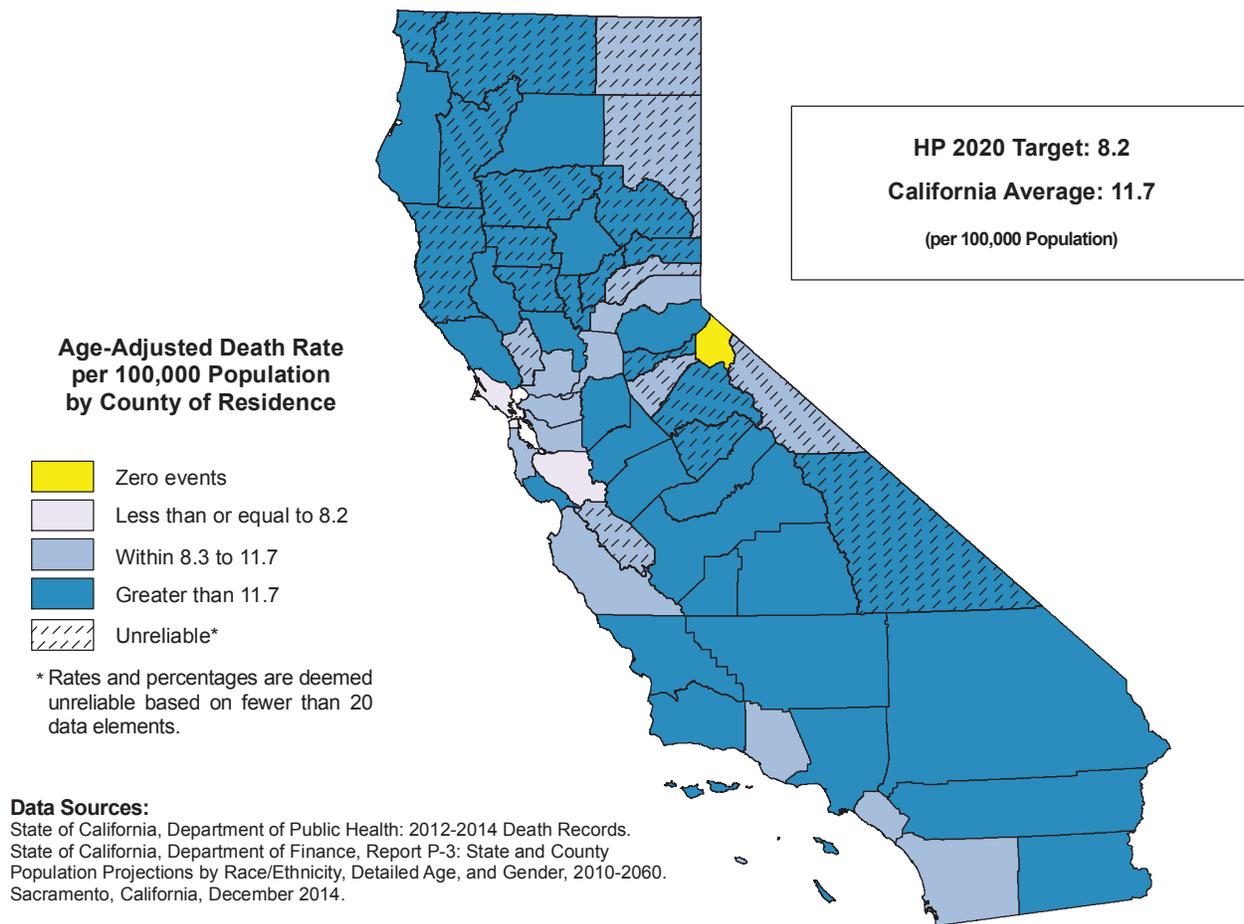
- Rates, percentages, and confidence limits are not calculated for zero events.

Note: Counties were rank ordered first by increasing age-adjusted death rate (calculated to 15 decimal places), second by decreasing population count.

Sources: State of California, Department of Public Health: 2012-2014 Death Records.

State of California, Department of Finance, Report P-3: State and County Population Projections by Race/Ethnicity, Detailed Age, and Gender, 2010-2060. Sacramento, California, December 2014.

DEATHS DUE TO CHRONIC LIVER DISEASE AND CIRRHOSIS, 2012-2014



The crude death rate from chronic liver disease and cirrhosis for California was 12.6 deaths per 100,000 population, a risk of dying from chronic liver disease and cirrhosis equivalent to approximately one death for every 7,948.9 persons. The crude death rate for California was based on a 2012 through 2014 three-year average number of deaths equaling 4,806.0 and a population count of 38,202,206 as of July 1, 2013. Among counties with reliable rates, the crude death rate ranged from 35.5 in Lake County to 9.0 in Santa Clara County, a factor of 3.9 to 1.

The age-adjusted death rate from chronic liver disease and cirrhosis for California during the 2012 through 2014 three-year period was 11.7 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 24.6 in Lake County to 7.0 in Marin County.

Three counties with reliable age-adjusted death rates met the Healthy People 2020 National Objective SA-11 of no more than 8.2 age-adjusted deaths due to chronic liver disease and cirrhosis per 100,000 population. One county with no deaths due to chronic liver disease and cirrhosis also met the objective. The statewide age-adjusted death rate for chronic liver disease and cirrhosis did not meet the national objective.

The California age-adjusted death rate from chronic liver disease and cirrhosis for the 2009-2011 period was 11.3 per 100,000 population.

**TABLE 13
DEATHS DUE TO CHRONIC LIVER DISEASE AND CIRRHOSIS
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE
CALIFORNIA COUNTIES, 2012-2014**

| RANK ORDER | COUNTY OF RESIDENCE | 2013 POPULATION | 2012-2014 DEATHS (AVERAGE) | CRUDE DEATH RATE | AGE-ADJUSTED DEATH RATE | 95% CONFIDENCE LIMITS | |
|--|---------------------|-------------------|----------------------------|------------------|-------------------------|-----------------------|-------------|
| | | | | | | LOWER | UPPER |
| 1 | ALPINE | 1,228 | 0.0 | - | - | - | - |
| 2 | MARIN | 256,264 | 26.3 | 10.3 | 7.0 | 4.6 | 10.2 |
| 3 | SAN FRANCISCO | 833,827 | 76.3 | 9.2 | 7.8 | 6.2 | 9.8 |
| 4 | SANTA CLARA | 1,850,595 | 166.7 | 9.0 | 8.2 | 7.0 | 9.5 |
| HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: SA-11 | | | | | | 8.2 | |
| 5 | CONTRA COSTA | 1,081,862 | 105.7 | 9.8 | 8.4 | 6.8 | 10.0 |
| 6 | LASSEN | 34,966 | 3.0 | 8.6 * | 8.5 * | 1.8 | 24.9 |
| 7 | SAN MATEO | 741,857 | 77.0 | 10.4 | 8.7 | 6.8 | 10.8 |
| 8 | ALAMEDA | 1,563,370 | 162.7 | 10.4 | 9.3 | 7.9 | 10.8 |
| 9 | SAN BENITO | 57,366 | 6.0 | 10.5 * | 9.5 * | 3.5 | 20.6 |
| 10 | NAPA | 139,831 | 17.3 | 12.4 * | 9.5 * | 5.6 | 15.2 |
| 11 | MONTEREY | 424,119 | 41.3 | 9.7 | 9.6 | 6.9 | 13.0 |
| 12 | ORANGE | 3,097,966 | 330.3 | 10.7 | 9.7 | 8.6 | 10.7 |
| 13 | SAN DIEGO | 3,184,072 | 330.7 | 10.4 | 9.9 | 8.8 | 11.0 |
| 14 | VENTURA | 839,617 | 92.0 | 11.0 | 9.9 | 8.0 | 12.2 |
| 15 | SOLANO | 424,048 | 49.3 | 11.6 | 10.5 | 7.8 | 13.9 |
| 16 | PLACER | 365,125 | 49.3 | 13.5 | 10.6 | 7.9 | 14.1 |
| 17 | CALAVERAS | 45,214 | 8.0 | 17.7 * | 10.8 * | 4.7 | 21.2 |
| 18 | MONO | 14,376 | 2.0 | 13.9 * | 11.0 * | 1.3 | 39.8 |
| 19 | NEVADA | 98,317 | 15.3 | 15.6 * | 11.1 * | 6.2 | 18.1 |
| 20 | MODOC | 9,457 | 1.7 | 17.6 * | 11.3 * | 1.0 | 45.4 |
| 21 | SACRAMENTO | 1,448,268 | 175.0 | 12.1 | 11.3 | 9.6 | 13.0 |
| | CALIFORNIA | 38,202,206 | 4,806.0 | 12.6 | 11.7 | 11.4 | 12.1 |
| 22 | INYO | 19,241 | 3.3 | 17.3 * | 12.0 * | 2.8 | 33.4 |
| 23 | SONOMA | 493,070 | 73.3 | 14.9 | 12.1 | 9.5 | 15.2 |
| 24 | SANTA BARBARA | 433,157 | 55.7 | 12.9 | 12.4 | 9.4 | 16.2 |
| 25 | LOS ANGELES | 10,010,961 | 1,306.7 | 13.1 | 12.5 | 11.8 | 13.2 |
| 26 | SANTA CRUZ | 271,495 | 38.7 | 14.2 | 12.6 | 8.9 | 17.2 |
| 27 | RIVERSIDE | 2,264,173 | 299.3 | 13.2 | 12.7 | 11.3 | 14.2 |
| 28 | AMADOR | 36,945 | 7.0 | 18.9 * | 13.0 * | 5.2 | 26.9 |
| 29 | KERN | 869,797 | 107.7 | 12.4 | 13.3 | 10.7 | 15.8 |
| 30 | SAN LUIS OBISPO | 271,740 | 46.7 | 17.2 | 14.0 | 10.3 | 18.6 |
| 31 | EL DORADO | 184,054 | 37.0 | 20.1 | 14.0 | 9.9 | 19.3 |
| 32 | MARIPOSA | 18,101 | 4.0 | 22.1 * | 14.1 * | 3.8 | 36.1 |
| 33 | YOLO | 206,621 | 28.7 | 13.9 | 14.4 | 9.6 | 20.7 |
| 34 | FRESNO | 958,260 | 131.0 | 13.7 | 14.7 | 12.1 | 17.2 |
| 35 | COLUSA | 21,987 | 3.3 | 15.2 * | 14.7 * | 3.4 | 40.8 |
| 36 | SAN BERNARDINO | 2,075,160 | 287.0 | 13.8 | 14.7 | 12.9 | 16.4 |
| 37 | GLENN | 28,599 | 4.7 | 16.3 * | 14.7 * | 4.5 | 35.3 |
| 38 | STANISLAUS | 527,232 | 78.3 | 14.9 | 14.9 | 11.8 | 18.6 |
| 39 | TUOLUMNE | 54,811 | 11.7 | 21.3 * | 14.9 * | 7.6 | 26.3 |
| 40 | IMPERIAL | 179,326 | 25.7 | 14.3 | 15.2 | 9.9 | 22.3 |
| 41 | YUBA | 73,600 | 10.7 | 14.5 * | 15.2 * | 7.5 | 27.5 |
| 42 | MERCED | 263,441 | 38.7 | 14.7 | 16.2 | 11.5 | 22.1 |
| 43 | DEL NORTE | 28,530 | 5.7 | 19.9 * | 16.2 * | 5.7 | 36.1 |
| 44 | MENDOCINO | 88,931 | 18.0 | 20.2 * | 16.7 * | 9.9 | 26.3 |
| 45 | SUTTER | 97,386 | 17.7 | 18.1 * | 16.8 * | 9.9 | 26.7 |
| 46 | SAN JOAQUIN | 703,790 | 118.3 | 16.8 | 16.9 | 13.8 | 20.0 |
| 47 | BUTTE | 222,035 | 44.0 | 19.8 | 17.0 | 12.3 | 22.8 |
| 48 | KINGS | 152,456 | 24.3 | 16.0 | 18.1 | 11.6 | 26.8 |
| 49 | SHASTA | 178,591 | 43.3 | 24.3 | 18.2 | 13.2 | 24.5 |
| 50 | TULARE | 456,075 | 74.7 | 16.4 | 18.3 | 14.4 | 23.0 |
| 51 | PLUMAS | 19,466 | 5.0 | 25.7 * | 18.5 * | 6.0 | 43.1 |
| 52 | SIERRA | 3,270 | 1.3 | 40.8 * | 18.6 * | 1.0 | 85.7 |
| 53 | MADERA | 153,409 | 29.0 | 18.9 | 18.9 | 12.7 | 27.2 |
| 54 | TEHAMA | 64,498 | 14.7 | 22.7 * | 19.2 * | 10.7 | 31.8 |
| 55 | SISKIYOU | 45,215 | 11.0 | 24.3 * | 20.8 * | 10.4 | 37.1 |
| 56 | HUMBOLDT | 136,480 | 36.3 | 26.6 | 22.7 | 15.9 | 31.4 |
| 57 | LAKE | 64,782 | 23.0 | 35.5 | 24.6 | 15.6 | 36.9 |
| 58 | TRINITY | 13,776 | 4.7 | 33.9 * | 26.5 * | 8.2 | 63.5 |

* Rates are deemed unreliable based on fewer than 20 data elements.

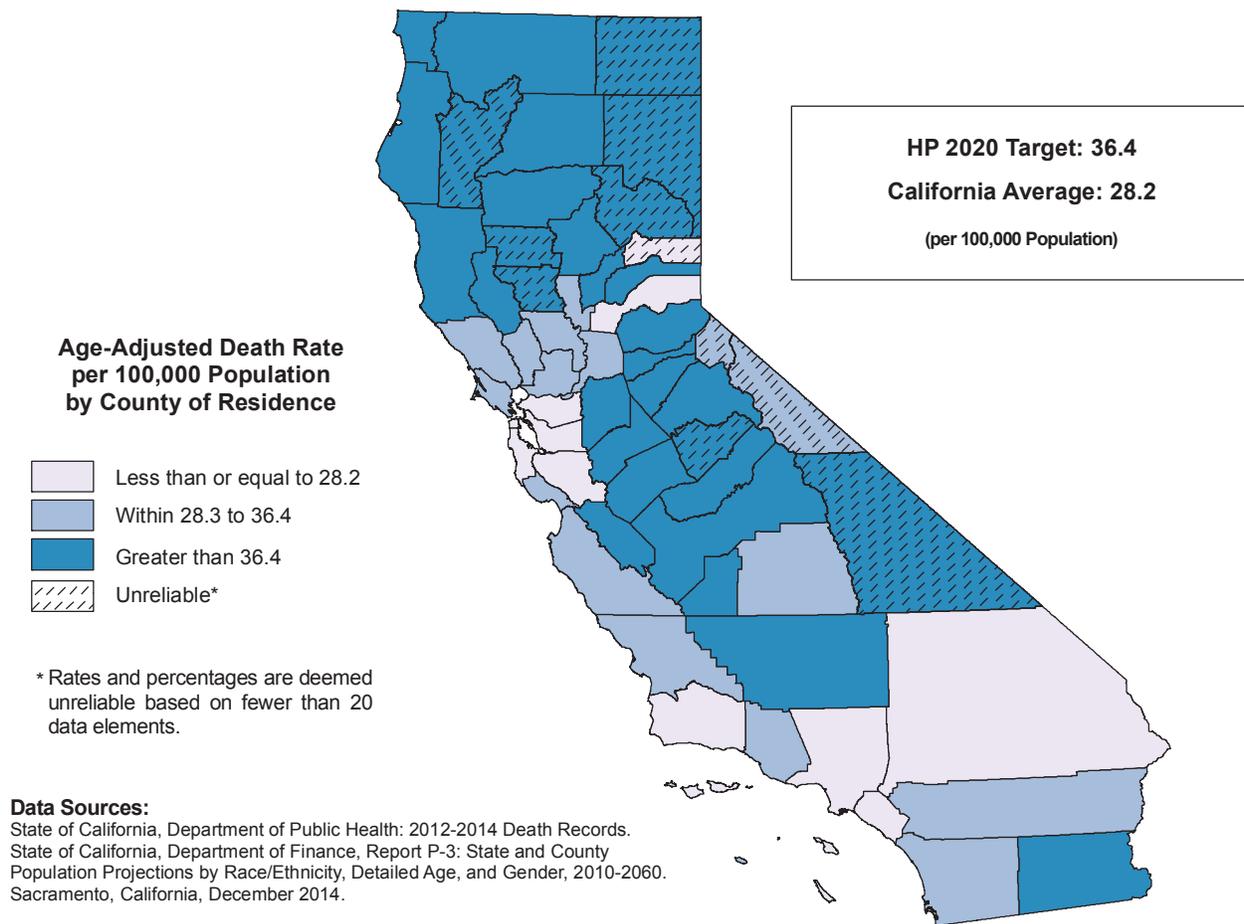
- Rates, percentages, and confidence limits are not calculated for zero events.

Note: Counties were rank ordered first by increasing age-adjusted death rate (calculated to 15 decimal places), second by decreasing population count.

Sources: State of California, Department of Public Health: 2012-2014 Death Records.

State of California, Department of Finance, Report P-3: State and County Population Projections by Race/Ethnicity, Detailed Age, and Gender, 2010-2060. Sacramento, California, December 2014.

DEATHS DUE TO ACCIDENTS (UNINTENTIONAL INJURIES), 2012-2014



The crude death rate from accidents for California was 29.2 deaths per 100,000 population, a risk of dying from an accident equivalent to approximately one death for every 3,422.2 persons. The crude death rate for California was based on a 2012 through 2014 three-year average number of deaths equaling 11,163.0 and a population count of 38,202,206 as of July 1, 2013. Among counties with reliable rates, the crude death rate ranged from 92.1 in Lake County to 21.5 in Los Angeles County, a factor of 4.3 to 1.

The age-adjusted death rate from accidents for California during the 2012 through 2014 three-year period was 28.2 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 83.6 in Lake County to 20.3 in San Mateo County.

Twenty-four counties with reliable age-adjusted death rates and California as a whole met the Healthy People 2020 National Objective IVP-11 of no more than 36.4 age-adjusted deaths due to accidents per 100,000 population. An additional three counties with unreliable rates met the objective.

The California age-adjusted death rate from accidents for the 2009-2011 period was 27.5 per 100,000 population.

**TABLE 14
DEATHS DUE TO ACCIDENTS (UNINTENTIONAL INJURIES)
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE
CALIFORNIA COUNTIES, 2012-2014**

| RANK ORDER | COUNTY OF RESIDENCE | 2013 POPULATION | 2012-2014 DEATHS (AVERAGE) | CRUDE DEATH RATE | AGE-ADJUSTED DEATH RATE | 95% CONFIDENCE LIMITS | | |
|------------|---|-------------------|----------------------------|------------------|-------------------------|-----------------------|-------------|--|
| | | | | | | LOWER | UPPER | |
| 1 | SAN MATEO | 741,857 | 171.0 | 23.1 | 20.3 | 17.2 | 23.5 | |
| 2 | LOS ANGELES | 10,010,961 | 2,154.0 | 21.5 | 21.0 | 20.1 | 21.9 | |
| 3 | ORANGE | 3,097,966 | 725.0 | 23.4 | 22.5 | 20.8 | 24.1 | |
| 4 | SANTA CLARA | 1,850,595 | 441.7 | 23.9 | 22.8 | 20.7 | 25.0 | |
| 5 | ALAMEDA | 1,563,370 | 393.3 | 25.2 | 23.9 | 21.5 | 26.3 | |
| 6 | SANTA BARBARA | 433,157 | 116.0 | 26.8 | 25.2 | 20.5 | 29.9 | |
| 7 | CONTRA COSTA | 1,081,862 | 295.7 | 27.3 | 25.4 | 22.5 | 28.4 | |
| 8 | SAN FRANCISCO | 833,827 | 258.3 | 31.0 | 26.0 | 22.8 | 29.3 | |
| 9 | SAN BERNARDINO | 2,075,160 | 513.3 | 24.7 | 26.2 | 23.9 | 28.5 | |
| 10 | SIERRA | 3,270 | 1.7 | 51.0 * | 26.2 * | 2.3 | 105.3 | |
| 11 | PLACER | 365,125 | 112.7 | 30.9 | 26.9 | 21.7 | 32.0 | |
| | CALIFORNIA | 38,202,206 | 11,163.0 | 29.2 | 28.2 | 27.7 | 28.8 | |
| 12 | SONOMA | 493,070 | 160.3 | 32.5 | 28.4 | 23.8 | 32.9 | |
| 13 | MARIN | 256,264 | 95.7 | 37.3 | 29.2 | 23.6 | 35.6 | |
| 14 | VENTURA | 839,617 | 256.3 | 30.5 | 29.3 | 25.7 | 33.0 | |
| 15 | MONTEREY | 424,119 | 129.3 | 30.5 | 30.6 | 25.3 | 36.0 | |
| 16 | SAN DIEGO | 3,184,072 | 1,030.3 | 32.4 | 30.8 | 28.9 | 32.7 | |
| 17 | NAPA | 139,831 | 50.3 | 36.0 | 31.2 | 23.2 | 41.0 | |
| 18 | RIVERSIDE | 2,264,173 | 730.0 | 32.2 | 32.0 | 29.7 | 34.4 | |
| 19 | SOLANO | 424,048 | 143.7 | 33.9 | 32.8 | 27.3 | 38.2 | |
| 20 | ALPINE | 1,228 | 0.7 | 54.3 * | 33.3 * | 0.2 | 248.6 | |
| 21 | SACRAMENTO | 1,448,268 | 504.0 | 34.8 | 34.0 | 31.0 | 37.0 | |
| 22 | SAN LUIS OBISPO | 271,740 | 104.3 | 38.4 | 34.1 | 27.3 | 41.0 | |
| 23 | SANTA CRUZ | 271,495 | 96.3 | 35.5 | 34.2 | 27.7 | 41.7 | |
| 24 | TULARE | 456,075 | 144.3 | 31.6 | 34.3 | 28.6 | 40.0 | |
| 25 | SUTTER | 97,386 | 33.7 | 34.6 | 34.4 | 23.8 | 48.2 | |
| 26 | YOLO | 206,621 | 68.3 | 33.1 | 34.6 | 26.9 | 43.9 | |
| 27 | MONO | 14,376 | 5.0 | 34.8 * | 35.1 * | 11.4 | 82.0 | |
| | HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: IVP-11 | | | | | 36.4 | | |
| 28 | COLUSA | 21,987 | 8.7 | 39.4 * | 36.8 * | 16.5 | 70.7 | |
| 29 | STANISLAUS | 527,232 | 191.3 | 36.3 | 37.0 | 31.7 | 42.3 | |
| 30 | KINGS | 152,456 | 52.0 | 34.1 | 37.3 | 27.8 | 48.9 | |
| 31 | SAN JOAQUIN | 703,790 | 257.0 | 36.5 | 37.5 | 32.9 | 42.2 | |
| 32 | FRESNO | 958,260 | 353.3 | 36.9 | 38.7 | 34.6 | 42.8 | |
| 33 | MADERA | 153,409 | 60.0 | 39.1 | 40.3 | 30.7 | 51.8 | |
| 34 | IMPERIAL | 179,326 | 71.3 | 39.8 | 40.7 | 31.8 | 51.4 | |
| 35 | CALAVERAS | 45,214 | 21.7 | 47.9 | 41.4 | 25.8 | 62.9 | |
| 36 | SAN BENITO | 57,366 | 23.7 | 41.3 | 42.9 | 27.4 | 64.1 | |
| 37 | EL DORADO | 184,054 | 89.3 | 48.5 | 43.6 | 35.0 | 53.7 | |
| 38 | KERN | 869,797 | 368.7 | 42.4 | 44.6 | 39.9 | 49.2 | |
| 39 | AMADOR | 36,945 | 20.0 | 54.1 | 44.7 | 27.3 | 69.0 | |
| 40 | MERCED | 263,441 | 113.3 | 43.0 | 46.5 | 37.8 | 55.2 | |
| 41 | LASSEN | 34,966 | 18.0 | 51.5 * | 47.4 * | 28.1 | 75.0 | |
| 42 | INYO | 19,241 | 10.7 | 55.4 * | 49.1 * | 24.2 | 88.6 | |
| 43 | TUOLUMNE | 54,811 | 37.0 | 67.5 | 53.6 | 37.7 | 73.8 | |
| 44 | NEVADA | 98,317 | 60.7 | 61.7 | 53.8 | 41.1 | 69.1 | |
| 45 | GLENN | 28,599 | 16.0 | 55.9 * | 53.8 * | 30.8 | 87.4 | |
| 46 | MENDOCINO | 88,931 | 50.0 | 56.2 | 54.2 | 40.2 | 71.4 | |
| 47 | TEHAMA | 64,498 | 38.3 | 59.4 | 55.3 | 39.2 | 75.8 | |
| 48 | SISKIYOU | 45,215 | 28.3 | 62.7 | 56.9 | 37.9 | 82.0 | |
| 49 | SHASTA | 178,591 | 114.0 | 63.8 | 59.8 | 48.2 | 71.4 | |
| 50 | MARIPOSA | 18,101 | 13.7 | 75.5 * | 60.8 * | 33.0 | 102.7 | |
| 51 | BUTTE | 222,035 | 149.0 | 67.1 | 61.6 | 51.1 | 72.0 | |
| 52 | YUBA | 73,600 | 44.0 | 59.8 | 62.8 | 45.6 | 84.3 | |
| 53 | DEL NORTE | 28,530 | 21.7 | 75.9 | 68.1 | 42.5 | 103.4 | |
| 54 | HUMBOLDT | 136,480 | 99.0 | 72.5 | 68.4 | 55.5 | 83.3 | |
| 55 | PLUMAS | 19,466 | 16.3 | 83.9 * | 72.2 * | 41.6 | 116.7 | |
| 56 | MODOC | 9,457 | 8.3 | 88.1 * | 77.7 * | 34.3 | 151.2 | |
| 57 | LAKE | 64,782 | 59.7 | 92.1 | 83.6 | 63.8 | 107.7 | |
| 58 | TRINITY | 13,776 | 12.7 | 91.9 * | 86.5 * | 45.6 | 148.9 | |

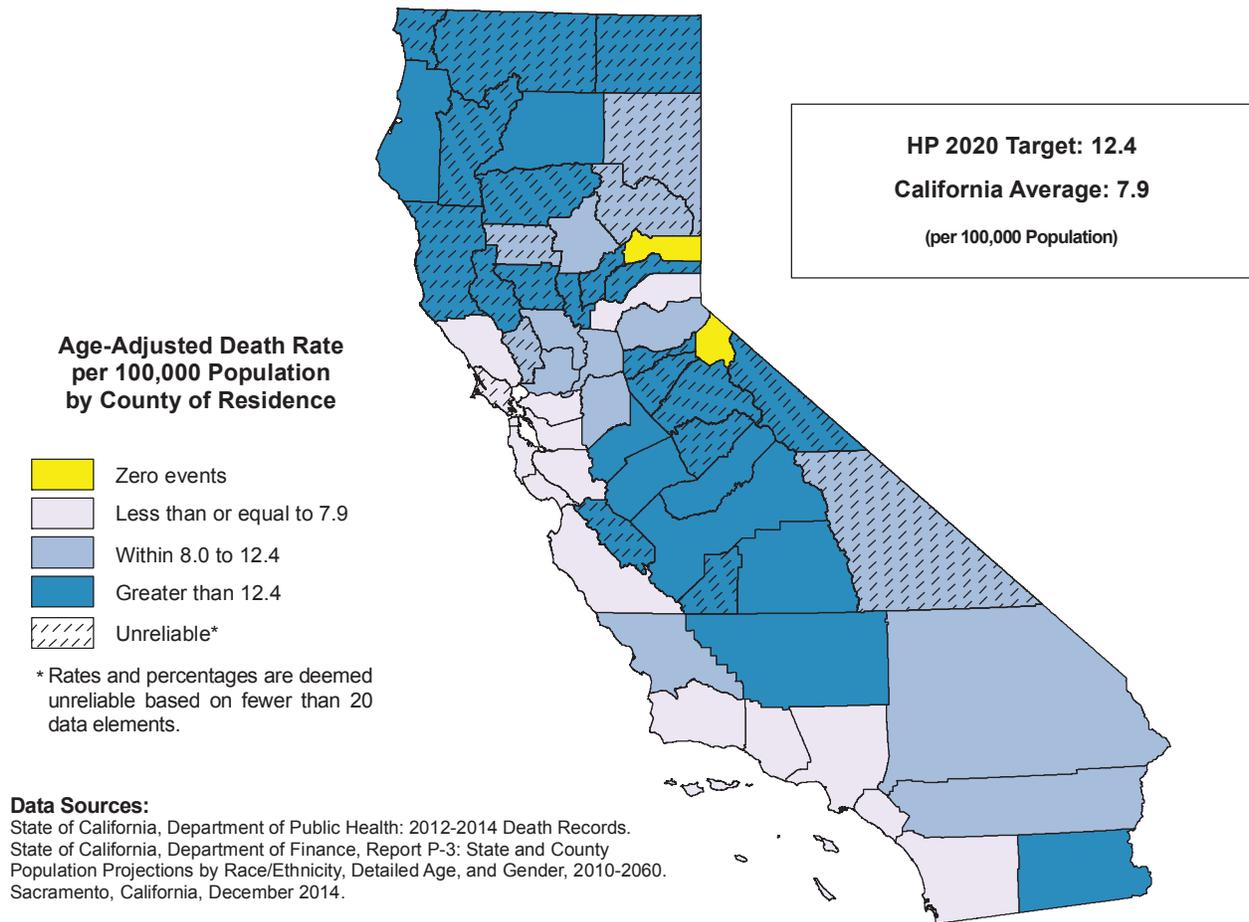
* Rates are deemed unreliable based on fewer than 20 data elements.

Note: Counties were rank ordered first by increasing age-adjusted death rate (calculated to 15 decimal places), second by decreasing population count.

Sources: State of California, Department of Public Health: 2012-2014 Death Records.

State of California, Department of Finance, Report P-3: State and County Population Projections by Race/Ethnicity, Detailed Age, and Gender, 2010-2060. Sacramento, California, December 2014.

DEATHS DUE TO MOTOR VEHICLE TRAFFIC CRASHES, 2012-2014



The crude death rate from motor vehicle traffic crashes for California was 8.1 deaths per 100,000 population, a risk of dying from a motor vehicle traffic crash equivalent to approximately one death for every 12,279.7 persons. The crude death rate for California was based on a 2012 through 2014 three-year average number of deaths equaling 3,111.0 and a population count of 38,202,206 as of July 1, 2013. Among counties with reliable rates, the crude death rate ranged from 20.0 in Humboldt County to 3.4 in San Francisco County, a factor of 5.9 to 1.

The age-adjusted death rate from motor vehicle traffic crashes for California during the 2012 through 2014 three-year period was 7.9 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 19.4 in Humboldt County to 3.1 in San Francisco County.

Twenty-three counties with reliable age-adjusted death rates and California as a whole met the Healthy People 2020 National Objective IVP-13.1 of no more than 12.4 age-adjusted deaths due to motor vehicle traffic crashes per 100,000 population. An additional six counties with unreliable rates and two counties with no deaths due to motor vehicle traffic crashes met the objective.

The California age-adjusted death rate from motor vehicle traffic crashes for the 2009-2011 period was 7.5 per 100,000 population.

**TABLE 15
DEATHS DUE TO MOTOR VEHICLE TRAFFIC CRASHES
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE
CALIFORNIA COUNTIES, 2012-2014**

| RANK ORDER | COUNTY OF RESIDENCE | 2013 POPULATION | 2012-2014 DEATHS (AVERAGE) | CRUDE DEATH RATE | AGE-ADJUSTED DEATH RATE | 95% CONFIDENCE LIMITS | | |
|------------|---|-------------------|----------------------------|------------------|-------------------------|-----------------------|------------|--|
| | | | | | | LOWER | UPPER | |
| 1 | SIERRA | 3,270 | 0.0 | - | - | - | - | |
| 2 | ALPINE | 1,228 | 0.0 | - | - | - | - | |
| 3 | SAN FRANCISCO | 833,827 | 28.0 | 3.4 | 3.1 | 2.1 | 4.5 | |
| 4 | MARIN | 256,264 | 12.0 | 4.7 * | 4.1 * | 2.1 | 7.2 | |
| 5 | SAN MATEO | 741,857 | 39.0 | 5.3 | 5.1 | 3.7 | 7.0 | |
| 6 | ALAMEDA | 1,563,370 | 84.7 | 5.4 | 5.3 | 4.2 | 6.5 | |
| 7 | CONTRA COSTA | 1,081,862 | 61.0 | 5.6 | 5.6 | 4.3 | 7.2 | |
| 8 | SANTA CLARA | 1,850,595 | 105.0 | 5.7 | 5.6 | 4.5 | 6.7 | |
| 9 | SONOMA | 493,070 | 31.3 | 6.4 | 5.8 | 3.9 | 8.2 | |
| 10 | ORANGE | 3,097,966 | 184.7 | 6.0 | 5.8 | 5.0 | 6.6 | |
| 11 | PLACER | 365,125 | 22.7 | 6.2 | 6.0 | 3.8 | 9.1 | |
| 12 | SAN DIEGO | 3,184,072 | 212.3 | 6.7 | 6.4 | 5.5 | 7.3 | |
| 13 | SANTA BARBARA | 433,157 | 29.3 | 6.8 | 6.4 | 4.3 | 9.2 | |
| 14 | LOS ANGELES | 10,010,961 | 691.7 | 6.9 | 6.7 | 6.2 | 7.2 | |
| 15 | VENTURA | 839,617 | 58.7 | 7.0 | 6.8 | 5.2 | 8.8 | |
| 16 | MONTEREY | 424,119 | 32.0 | 7.5 | 7.5 | 5.1 | 10.6 | |
| 17 | SANTA CRUZ | 271,495 | 21.3 | 7.9 | 7.7 | 4.8 | 11.7 | |
| | CALIFORNIA | 38,202,206 | 3,111.0 | 8.1 | 7.9 | 7.7 | 8.2 | |
| 18 | NAPA | 139,831 | 11.3 | 8.1 * | 8.3 * | 4.2 | 14.7 | |
| 19 | SACRAMENTO | 1,448,268 | 127.0 | 8.8 | 8.7 | 7.2 | 10.2 | |
| 20 | INYO | 19,241 | 2.0 | 10.4 * | 9.7 * | 1.2 | 34.9 | |
| 21 | YOLO | 206,621 | 20.0 | 9.7 | 9.7 | 5.9 | 15.0 | |
| 22 | SAN LUIS OBISPO | 271,740 | 28.7 | 10.5 | 9.9 | 6.6 | 14.3 | |
| 23 | SOLANO | 424,048 | 43.3 | 10.2 | 9.9 | 7.2 | 13.3 | |
| 24 | RIVERSIDE | 2,264,173 | 228.0 | 10.1 | 10.0 | 8.7 | 11.3 | |
| 25 | SAN JOAQUIN | 703,790 | 71.7 | 10.2 | 10.2 | 8.0 | 12.9 | |
| 26 | GLENN | 28,599 | 2.7 | 9.3 * | 10.4 * | 1.9 | 32.2 | |
| 27 | BUTTE | 222,035 | 24.0 | 10.8 | 10.7 | 6.8 | 15.9 | |
| 28 | EL DORADO | 184,054 | 20.3 | 11.0 | 10.9 | 6.7 | 16.7 | |
| 29 | LASSEN | 34,966 | 4.3 | 12.4 * | 11.4 * | 3.3 | 28.3 | |
| 30 | SAN BERNARDINO | 2,075,160 | 238.0 | 11.5 | 11.5 | 10.0 | 13.0 | |
| 31 | PLUMAS | 19,466 | 2.7 | 13.7 * | 12.3 * | 2.2 | 38.2 | |
| | HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: IVP-13.1 | | | | | 12.4 | | |
| 32 | YUBA | 73,600 | 9.0 | 12.2 * | 12.7 * | 5.8 | 24.1 | |
| 33 | KINGS | 152,456 | 19.0 | 12.5 * | 12.7 * | 7.7 | 19.9 | |
| 34 | STANISLAUS | 527,232 | 66.7 | 12.6 | 12.7 | 9.9 | 16.2 | |
| 35 | IMPERIAL | 179,326 | 23.0 | 12.8 | 12.9 | 8.2 | 19.3 | |
| 36 | TUOLUMNE | 54,811 | 8.0 | 14.6 * | 12.9 * | 5.6 | 25.5 | |
| 37 | FRESNO | 958,260 | 126.0 | 13.1 | 13.1 | 10.8 | 15.4 | |
| 38 | KERN | 869,797 | 115.7 | 13.3 | 13.2 | 10.7 | 15.6 | |
| 39 | AMADOR | 36,945 | 5.3 | 14.4 * | 13.3 * | 4.5 | 30.3 | |
| 40 | SHASTA | 178,591 | 24.7 | 13.8 | 13.5 | 8.7 | 20.0 | |
| 41 | TULARE | 456,075 | 62.7 | 13.7 | 14.2 | 10.9 | 18.2 | |
| 42 | MONO | 14,376 | 2.0 | 13.9 * | 14.4 * | 1.7 | 51.9 | |
| 43 | SUTTER | 97,386 | 13.7 | 14.0 * | 14.4 * | 7.8 | 24.3 | |
| 44 | NEVADA | 98,317 | 14.3 | 14.6 * | 14.7 * | 8.1 | 24.6 | |
| 45 | SAN BENITO | 57,366 | 8.0 | 13.9 * | 14.9 * | 6.5 | 29.5 | |
| 46 | COLUSA | 21,987 | 3.7 | 16.7 * | 15.8 * | 4.0 | 42.0 | |
| 47 | MADERA | 153,409 | 24.0 | 15.6 | 15.9 | 10.2 | 23.6 | |
| 48 | MERCED | 263,441 | 40.7 | 15.4 | 16.0 | 11.4 | 21.7 | |
| 49 | MENDOCINO | 88,931 | 15.3 | 17.2 * | 17.1 * | 9.6 | 28.0 | |
| 50 | SISKIYOU | 45,215 | 8.3 | 18.4 * | 17.5 * | 7.7 | 34.0 | |
| 51 | TEHAMA | 64,498 | 11.7 | 18.1 * | 18.1 * | 9.3 | 31.9 | |
| 52 | HUMBOLDT | 136,480 | 27.3 | 20.0 | 19.4 | 12.8 | 28.2 | |
| 53 | MARIPOSA | 18,101 | 4.3 | 23.9 * | 21.3 * | 6.2 | 52.7 | |
| 54 | LAKE | 64,782 | 14.3 | 22.1 * | 21.8 * | 12.0 | 36.3 | |
| 55 | MODOC | 9,457 | 2.7 | 28.2 * | 22.8 * | 4.1 | 70.7 | |
| 56 | CALAVERAS | 45,214 | 11.7 | 25.8 * | 24.9 * | 12.7 | 43.8 | |
| 57 | DEL NORTE | 28,530 | 7.3 | 25.7 * | 25.1 * | 10.3 | 50.9 | |
| 58 | TRINITY | 13,776 | 4.0 | 29.0 * | 28.0 * | 7.6 | 71.6 | |

* Rates are deemed unreliable based on fewer than 20 data elements.

- Rates, percentages, and confidence limits are not calculated for zero events.

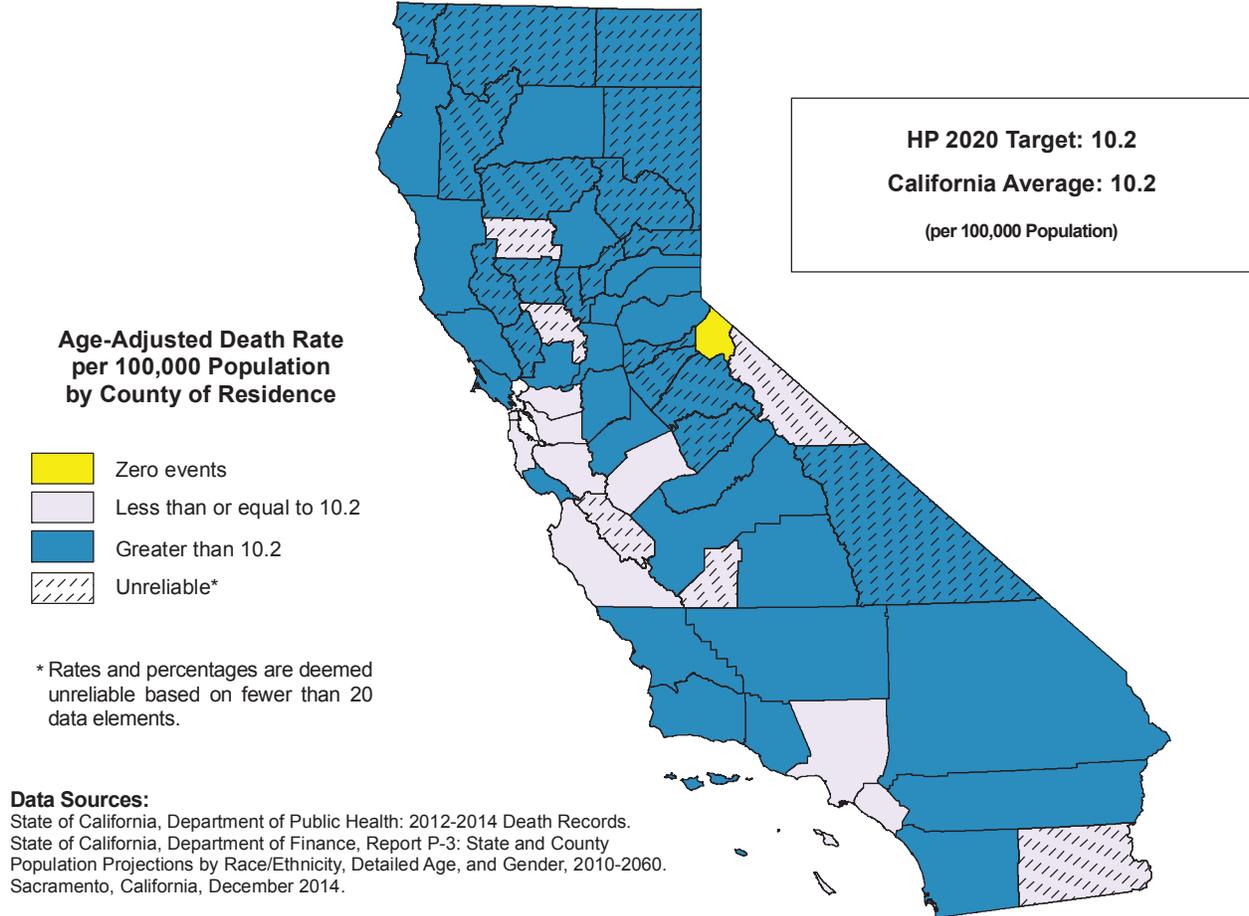
Note: Counties were rank ordered first by increasing age-adjusted death rate (calculated to 15 decimal places), second by decreasing population count.

Sources: State of California, Department of Public Health: 2012-2014 Death Records.

State of California, Department of Finance, Report P-3: State and County Population Projections by Race/Ethnicity, Detailed Age, and Gender, 2010-2060.

Sacramento, California, December 2014.

DEATHS DUE TO SUICIDE, 2012-2014



The crude death rate from suicide for California was 10.5 deaths per 100,000 population, equivalent to approximately one suicide for every 9,517.2 persons. The crude death rate for California was based on a 2012 through 2014 three-year average number of deaths equaling 4,014.0 and a population count of 38,202,206 as of July 1, 2013. Among counties with reliable rates, the crude death rate ranged from 26.4 in Humboldt County to 7.6 in San Mateo County, a factor of 3.5 to 1.

The age-adjusted death rate from suicide for California during the 2012 through 2014 three-year period was 10.2 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 24.7 in Humboldt County to 7.0 in San Mateo County.

Nine counties with reliable age-adjusted death rates and California as a whole met the Healthy People 2020 National Objective MHMD-1 of no more than 10.2 age-adjusted deaths due to suicide per 100,000 population. An additional six counties with unreliable rates and one county with no deaths due to suicide met the objective.

The California age-adjusted death rate from suicide for the 2009-2011 period was 10.1 per 100,000 population.

**TABLE 16
DEATHS DUE TO SUICIDE
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE
CALIFORNIA COUNTIES, 2012-2014**

| RANK ORDER | COUNTY OF RESIDENCE | 2013 POPULATION | 2012-2014 DEATHS (AVERAGE) | CRUDE DEATH RATE | AGE-ADJUSTED DEATH RATE | 95% CONFIDENCE LIMITS | |
|---|---------------------|-------------------|----------------------------|------------------|-------------------------|-----------------------|-------------|
| | | | | | | LOWER | UPPER |
| 1 | ALPINE | 1,228 | 0.0 | - | - | - | - |
| 2 | SAN BENITO | 57,366 | 2.7 | 4.6 * | 4.5 * | 0.8 | 13.9 |
| 3 | IMPERIAL | 179,326 | 12.0 | 6.7 * | 6.8 * | 3.5 | 11.8 |
| 4 | SAN MATEO | 741,857 | 56.7 | 7.6 | 7.0 | 5.3 | 9.1 |
| 5 | LOS ANGELES | 10,010,961 | 784.3 | 7.8 | 7.6 | 7.1 | 8.2 |
| 6 | SAN FRANCISCO | 833,827 | 70.3 | 8.4 | 7.6 | 5.9 | 9.6 |
| 7 | SANTA CLARA | 1,850,595 | 152.7 | 8.2 | 7.9 | 6.7 | 9.2 |
| 8 | GLENN | 28,599 | 2.3 | 8.2 * | 7.9 * | 1.2 | 26.3 |
| 9 | YOLO | 206,621 | 17.3 | 8.4 * | 8.5 * | 5.0 | 13.6 |
| 10 | ALAMEDA | 1,563,370 | 147.7 | 9.4 | 9.0 | 7.5 | 10.4 |
| 11 | MONTEREY | 424,119 | 39.3 | 9.3 | 9.2 | 6.6 | 12.6 |
| 12 | MERCED | 263,441 | 22.7 | 8.6 | 9.4 | 5.9 | 14.1 |
| 13 | CONTRA COSTA | 1,081,862 | 107.0 | 9.9 | 9.5 | 7.7 | 11.3 |
| 14 | KINGS | 152,456 | 14.3 | 9.4 * | 9.7 * | 5.3 | 16.1 |
| 15 | MONO | 14,376 | 1.3 | 9.3 * | 9.9 * | 0.5 | 45.5 |
| 16 | ORANGE | 3,097,966 | 324.0 | 10.5 | 10.0 | 8.9 | 11.1 |
| | CALIFORNIA | 38,202,206 | 4,014.0 | 10.5 | 10.2 | 9.9 | 10.5 |
| HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: MHMD-1 | | | | | | 10.2 | |
| 17 | SAN BERNARDINO | 2,075,160 | 205.3 | 9.9 | 10.3 | 8.9 | 11.7 |
| 18 | FRESNO | 958,260 | 93.3 | 9.7 | 10.4 | 8.4 | 12.8 |
| 19 | TULARE | 456,075 | 44.7 | 9.8 | 10.5 | 7.6 | 14.0 |
| 20 | RIVERSIDE | 2,264,173 | 242.3 | 10.7 | 10.7 | 9.4 | 12.1 |
| 21 | STANISLAUS | 527,232 | 56.0 | 10.6 | 10.8 | 8.2 | 14.1 |
| 22 | VENTURA | 839,617 | 97.0 | 11.6 | 11.2 | 9.1 | 13.6 |
| 23 | SANTA BARBARA | 433,157 | 50.3 | 11.6 | 11.2 | 8.3 | 14.7 |
| 24 | PLACER | 365,125 | 45.7 | 12.5 | 11.3 | 8.3 | 15.1 |
| 25 | SOLANO | 424,048 | 51.0 | 12.0 | 11.3 | 8.4 | 14.9 |
| 26 | SAN JOAQUIN | 703,790 | 77.3 | 11.0 | 11.4 | 9.0 | 14.2 |
| 27 | NAPA | 139,831 | 17.3 | 12.4 * | 12.0 * | 7.0 | 19.1 |
| 28 | SONOMA | 493,070 | 67.3 | 13.7 | 12.2 | 9.5 | 15.5 |
| 29 | MARIN | 256,264 | 38.0 | 14.8 | 12.4 | 8.8 | 17.0 |
| 30 | SAN DIEGO | 3,184,072 | 416.7 | 13.1 | 12.7 | 11.4 | 13.9 |
| 31 | KERN | 869,797 | 109.7 | 12.6 | 13.2 | 10.7 | 15.8 |
| 32 | SACRAMENTO | 1,448,268 | 201.7 | 13.9 | 13.6 | 11.7 | 15.5 |
| 33 | TUOLUMNE | 54,811 | 8.7 | 15.8 * | 14.2 * | 6.4 | 27.2 |
| 34 | SANTA CRUZ | 271,495 | 40.3 | 14.9 | 14.4 | 10.3 | 19.6 |
| 35 | EL DORADO | 184,054 | 31.0 | 16.8 | 14.8 | 10.1 | 21.1 |
| 36 | MADERA | 153,409 | 22.7 | 14.8 | 15.4 | 9.7 | 23.2 |
| 37 | BUTTE | 222,035 | 35.7 | 16.1 | 15.5 | 10.8 | 21.4 |
| 38 | YUBA | 73,600 | 11.7 | 15.9 * | 16.0 * | 8.2 | 28.1 |
| 39 | SAN LUIS OBISPO | 271,740 | 50.0 | 18.4 | 16.5 | 12.2 | 21.7 |
| 40 | SUTTER | 97,386 | 16.7 | 17.1 * | 16.7 * | 9.6 | 26.8 |
| 41 | INYO | 19,241 | 4.3 | 22.5 * | 16.8 * | 4.9 | 41.7 |
| 42 | NEVADA | 98,317 | 22.0 | 22.4 | 19.0 | 11.9 | 28.8 |
| 43 | TEHAMA | 64,498 | 13.7 | 21.2 * | 19.2 * | 10.4 | 32.4 |
| 44 | CALAVERAS | 45,214 | 10.3 | 22.9 * | 20.3 * | 9.9 | 36.9 |
| 45 | TRINITY | 13,776 | 3.0 | 21.8 * | 20.9 * | 4.3 | 61.1 |
| 46 | LASSEN | 34,966 | 8.0 | 22.9 * | 21.0 * | 9.0 | 41.3 |
| 47 | SHASTA | 178,591 | 41.7 | 23.3 | 21.2 | 15.2 | 28.6 |
| 48 | PLUMAS | 19,466 | 4.7 | 24.0 * | 22.8 * | 7.0 | 54.6 |
| 49 | MODOC | 9,457 | 2.0 | 21.1 * | 23.0 * | 2.8 | 83.1 |
| 50 | DEL NORTE | 28,530 | 7.3 | 25.7 * | 23.4 * | 9.7 | 47.5 |
| 51 | SISKIYOU | 45,215 | 11.3 | 25.1 * | 23.7 * | 12.0 | 42.1 |
| 52 | MENDOCINO | 88,931 | 21.0 | 23.6 | 23.9 | 14.8 | 36.6 |
| 53 | SIERRA | 3,270 | 1.0 | 30.6 * | 24.3 * | 0.6 | 135.5 |
| 54 | HUMBOLDT | 136,480 | 36.0 | 26.4 | 24.7 | 17.3 | 34.2 |
| 55 | LAKE | 64,782 | 18.0 | 27.8 * | 25.8 * | 15.3 | 40.8 |
| 56 | AMADOR | 36,945 | 13.0 | 35.2 * | 29.3 * | 15.6 | 50.1 |
| 57 | COLUSA | 21,987 | 6.3 | 28.8 * | 31.1 * | 11.8 | 66.4 |
| 58 | MARIPOSA | 18,101 | 5.3 | 29.5 * | 31.9 * | 10.8 | 72.5 |

* Rates are deemed unreliable based on fewer than 20 data elements.

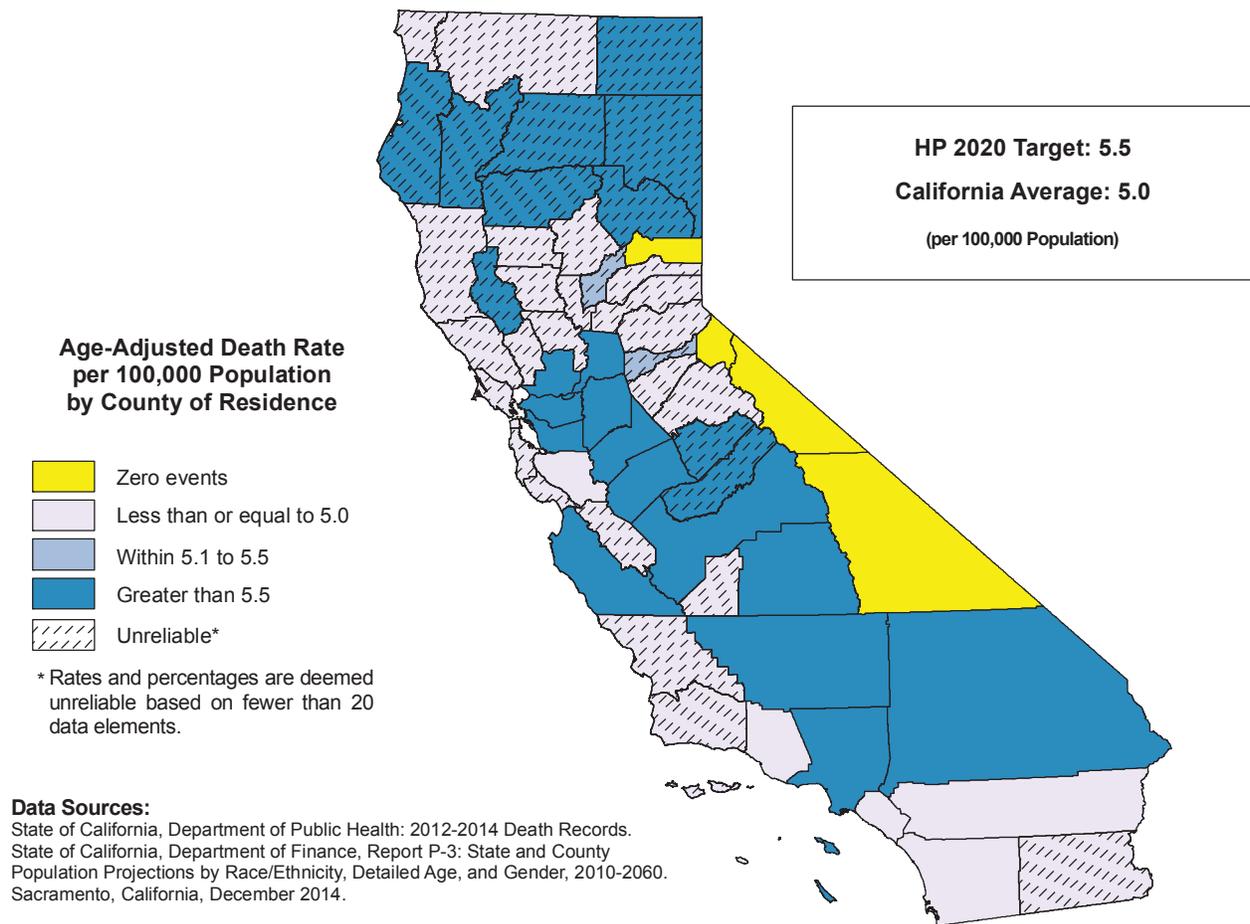
- Rates, percentages, and confidence limits are not calculated for zero events.

Note: Counties were rank ordered first by increasing age-adjusted death rate (calculated to 15 decimal places), second by decreasing population count.

Sources: State of California, Department of Public Health: 2012-2014 Death Records.

State of California, Department of Finance, Report P-3: State and County Population Projections by Race/Ethnicity, Detailed Age, and Gender, 2010-2060. Sacramento, California, December 2014.

DEATHS DUE TO HOMICIDE, 2012-2014



The crude death rate from homicide for California was 5.0 deaths per 100,000 population, a risk of dying from a homicide equivalent to approximately one death for every 19,955.9 persons. The crude death rate for California was based on a 2012 through 2014 three-year average number of deaths equaling 1,914.3 and a population count of 38,202,206 as of July 1, 2013. Among counties with reliable rates, the crude death rate ranged from 10.4 in San Joaquin County to 1.9 in Orange County, a factor of 5.5 to 1.

The age-adjusted death rate from homicide for California during the 2012 through 2014 three-year period was 5.0 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 10.4 in San Joaquin County to 1.9 in Orange County.

Six counties with reliable age-adjusted death rates and California as a whole met the Healthy People 2020 National Objective IVP-29 of no more than 5.5 age-adjusted deaths due to homicide per 100,000 population. An additional twenty-five counties with unreliable rates and four counties with no deaths due to homicide met the objective.

The California age-adjusted death rate from homicide for the 2009-2011 period was 5.2 per 100,000 population.

**TABLE 17
DEATHS DUE TO HOMICIDE
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE
CALIFORNIA COUNTIES, 2012-2014**

| RANK ORDER | COUNTY OF RESIDENCE | 2013 POPULATION | 2012-2014 DEATHS (AVERAGE) | CRUDE DEATH RATE | AGE-ADJUSTED DEATH RATE | 95% CONFIDENCE LIMITS | | |
|------------|---|-------------------|----------------------------|------------------|-------------------------|-----------------------|------------|--|
| | | | | | | LOWER | UPPER | |
| 1 | INYO | 19,241 | 0.0 | - | - | - | - | |
| 2 | MONO | 14,376 | 0.0 | - | - | - | - | |
| 3 | SIERRA | 3,270 | 0.0 | - | - | - | - | |
| 4 | ALPINE | 1,228 | 0.0 | - | - | - | - | |
| 5 | NAPA | 139,831 | 1.7 | 1.2 * | 1.1 * | 0.1 | 4.3 | |
| 6 | MARIN | 256,264 | 2.7 | 1.0 * | 1.2 * | 0.2 | 3.7 | |
| 7 | COLUSA | 21,987 | 0.3 | 1.5 * | 1.4 * | 0.0 | 18.1 | |
| 8 | SONOMA | 493,070 | 8.0 | 1.6 * | 1.6 * | 0.7 | 3.1 | |
| 9 | SAN LUIS OBISPO | 271,740 | 4.7 | 1.7 * | 1.7 * | 0.5 | 4.0 | |
| 10 | NEVADA | 98,317 | 1.3 | 1.4 * | 1.8 * | 0.1 | 8.4 | |
| 11 | ORANGE | 3,097,966 | 58.3 | 1.9 | 1.9 | 1.4 | 2.4 | |
| 12 | SAN MATEO | 741,857 | 15.3 | 2.1 * | 2.2 * | 1.2 | 3.6 | |
| 13 | PLACER | 365,125 | 8.0 | 2.2 * | 2.3 * | 1.0 | 4.5 | |
| 14 | IMPERIAL | 179,326 | 4.3 | 2.4 * | 2.3 * | 0.7 | 5.7 | |
| 15 | TUOLUMNE | 54,811 | 1.0 | 1.8 * | 2.4 * | 0.1 | 13.1 | |
| 16 | YOLO | 206,621 | 4.7 | 2.3 * | 2.4 * | 0.7 | 5.7 | |
| 17 | SANTA BARBARA | 433,157 | 11.0 | 2.5 * | 2.6 * | 1.3 | 4.6 | |
| 18 | SANTA CLARA | 1,850,595 | 53.3 | 2.9 | 2.9 | 2.2 | 3.8 | |
| 19 | SAN DIEGO | 3,184,072 | 96.0 | 3.0 | 2.9 | 2.4 | 3.6 | |
| 20 | EL DORADO | 184,054 | 5.0 | 2.7 * | 3.1 * | 1.0 | 7.3 | |
| 21 | VENTURA | 839,617 | 28.3 | 3.4 | 3.4 | 2.3 | 4.9 | |
| 22 | MENDOCINO | 88,931 | 3.0 | 3.4 * | 3.8 * | 0.8 | 11.0 | |
| 23 | DEL NORTE | 28,530 | 1.0 | 3.5 * | 3.8 * | 0.1 | 21.2 | |
| 24 | SUTTER | 97,386 | 3.7 | 3.8 * | 3.8 * | 1.0 | 10.2 | |
| 25 | SAN FRANCISCO | 833,827 | 32.7 | 3.9 | 3.9 | 2.7 | 5.5 | |
| 26 | SAN BENITO | 57,366 | 2.3 | 4.1 * | 4.0 * | 0.6 | 13.3 | |
| 27 | GLENN | 28,599 | 1.0 | 3.5 * | 4.1 * | 0.1 | 22.6 | |
| 28 | BUTTE | 222,035 | 9.3 | 4.2 * | 4.1 * | 1.9 | 7.6 | |
| 29 | SANTA CRUZ | 271,495 | 11.3 | 4.2 * | 4.1 * | 2.1 | 7.3 | |
| 30 | CALAVERAS | 45,214 | 1.7 | 3.7 * | 4.4 * | 0.4 | 17.8 | |
| 31 | RIVERSIDE | 2,264,173 | 99.3 | 4.4 | 4.4 | 3.6 | 5.4 | |
| 32 | SISKIYOU | 45,215 | 2.0 | 4.4 * | 4.6 * | 0.6 | 16.7 | |
| 33 | KINGS | 152,456 | 7.7 | 5.0 * | 5.0 * | 2.1 | 10.0 | |
| | CALIFORNIA | 38,202,206 | 1,914.3 | 5.0 | 5.0 | 4.7 | 5.2 | |
| 34 | YUBA | 73,600 | 3.3 | 4.5 * | 5.2 * | 1.2 | 14.6 | |
| 35 | AMADOR | 36,945 | 1.7 | 4.5 * | 5.5 * | 0.5 | 22.2 | |
| | HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: IVP-29 | | | | | 5.5 | | |
| 36 | LOS ANGELES | 10,010,961 | 576.3 | 5.8 | 5.6 | 5.1 | 6.1 | |
| 37 | LASSEN | 34,966 | 2.0 | 5.7 * | 6.0 * | 0.7 | 21.5 | |
| 38 | HUMBOLDT | 136,480 | 8.7 | 6.4 * | 6.0 * | 2.7 | 11.5 | |
| 39 | CONTRA COSTA | 1,081,862 | 64.0 | 5.9 | 6.2 | 4.8 | 7.9 | |
| 40 | SHASTA | 178,591 | 10.3 | 5.8 * | 6.2 * | 3.0 | 11.3 | |
| 41 | SACRAMENTO | 1,448,268 | 90.0 | 6.2 | 6.2 | 5.0 | 7.7 | |
| 42 | SAN BERNARDINO | 2,075,160 | 132.7 | 6.4 | 6.4 | 5.3 | 7.5 | |
| 43 | MADERA | 153,409 | 10.0 | 6.5 * | 6.4 * | 3.1 | 11.9 | |
| 44 | STANISLAUS | 527,232 | 34.7 | 6.6 | 6.5 | 4.5 | 9.0 | |
| 45 | PLUMAS | 19,466 | 1.3 | 6.8 * | 6.5 * | 0.4 | 29.9 | |
| 46 | TEHAMA | 64,498 | 4.0 | 6.2 * | 7.1 * | 1.9 | 18.2 | |
| 47 | ALAMEDA | 1,563,370 | 119.3 | 7.6 | 7.6 | 6.3 | 9.0 | |
| 48 | FRESNO | 958,260 | 74.7 | 7.8 | 7.8 | 6.1 | 9.8 | |
| 49 | KERN | 869,797 | 74.7 | 8.6 | 8.6 | 6.8 | 10.8 | |
| 50 | TULARE | 456,075 | 38.3 | 8.4 | 8.7 | 6.2 | 12.0 | |
| 51 | SOLANO | 424,048 | 36.0 | 8.5 | 8.8 | 6.2 | 12.2 | |
| 52 | MARIPOSA | 18,101 | 1.3 | 7.4 * | 9.0 * | 0.5 | 41.6 | |
| 53 | MERCED | 263,441 | 26.0 | 9.9 | 9.5 | 6.2 | 13.9 | |
| 54 | MONTEREY | 424,119 | 41.3 | 9.7 | 9.5 | 6.8 | 12.9 | |
| 55 | SAN JOAQUIN | 703,790 | 73.3 | 10.4 | 10.4 | 8.2 | 13.1 | |
| 56 | LAKE | 64,782 | 7.0 | 10.8 * | 11.9 * | 4.8 | 24.6 | |
| 57 | TRINITY | 13,776 | 2.3 | 16.9 * | 16.3 * | 2.5 | 54.2 | |
| 58 | MODOC | 9,457 | 2.0 | 21.1 * | 21.1 * | 2.6 | 76.3 | |

* Rates are deemed unreliable based on fewer than 20 data elements.

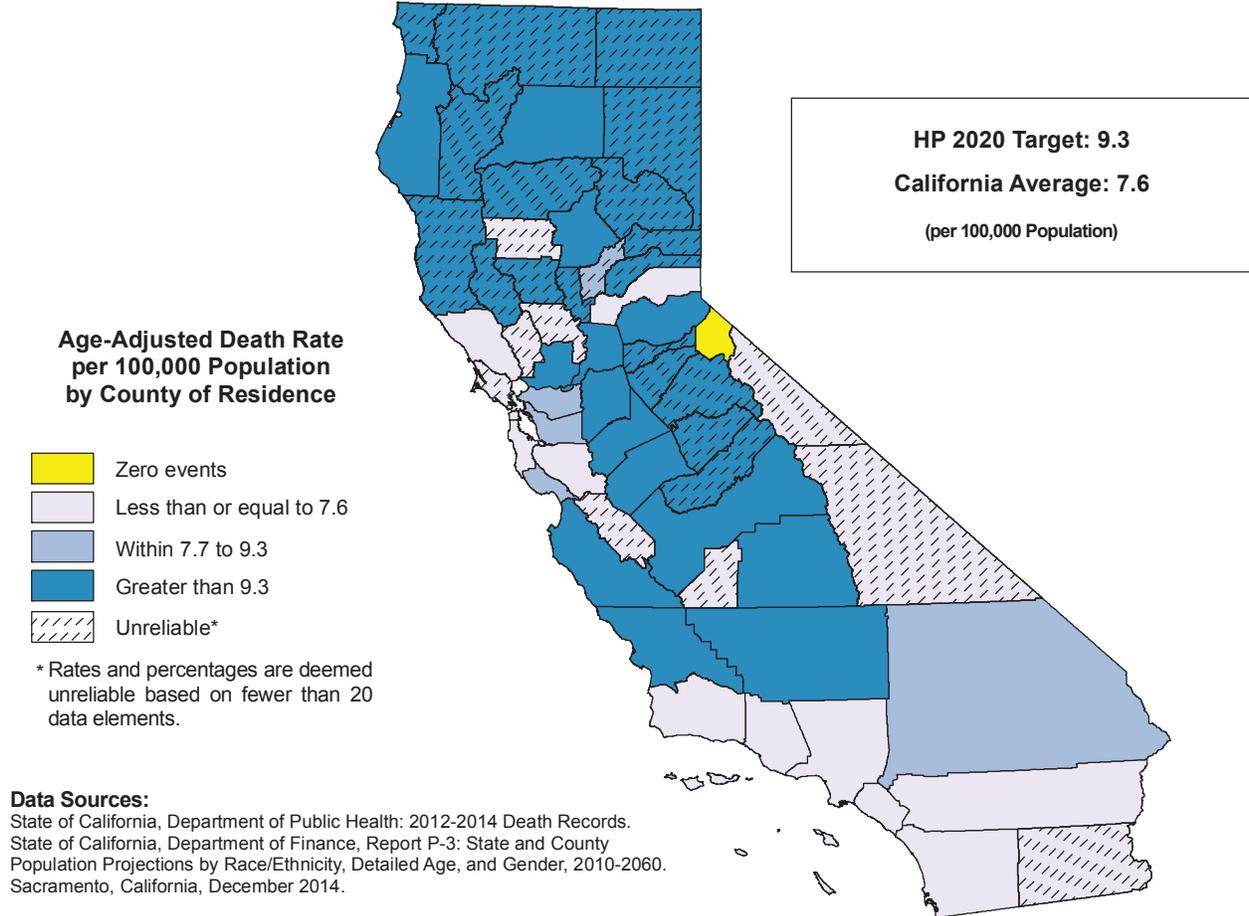
- Rates, percentages, and confidence limits are not calculated for zero events.

Note: Counties were rank ordered first by increasing age-adjusted death rate (calculated to 15 decimal places), second by decreasing population count.

Sources: State of California, Department of Public Health: 2012-2014 Death Records.

State of California, Department of Finance, Report P-3: State and County Population Projections by Race/Ethnicity, Detailed Age, and Gender, 2010-2060. Sacramento, California, December 2014.

FIREARM-RELATED DEATHS, 2012-2014



The crude death rate from deaths due to firearm-related injuries for California was 7.8 deaths per 100,000 population, a risk of dying from a firearm-related injury equivalent to approximately one death for every 12,803.8 persons. The crude death rate for California was based on a 2012 through 2014 three-year average number of deaths equaling 2,983.7 and a population count of 38,202,206 as of July 1, 2013. Among counties with reliable rates, the crude death rate ranged from 16.2 in Shasta County to 3.8 in San Francisco County, a factor of 4.3 to 1.

The age-adjusted death rate from deaths due to firearm-related injuries for California during the 2012 through 2014 three-year period was 7.6 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 14.2 in Shasta County to 3.8 in San Francisco County.

Fifteen counties with reliable age-adjusted death rates and California as a whole met the Healthy People 2020 National Objective IVP-30 of no more than 9.3 age-adjusted deaths due to firearm-related injuries per 100,000 population. An additional ten counties with unreliable rates and one county with no deaths due to firearm-related injuries met the objective.

The California age-adjusted death rate from deaths due to firearm-related injuries for the 2009-2011 period was 7.8 per 100,000 population.

**TABLE 18
FIREARM-RELATED DEATHS
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE
CALIFORNIA COUNTIES, 2012-2014**

| RANK ORDER | COUNTY OF RESIDENCE | 2013 POPULATION | 2012-2014 DEATHS (AVERAGE) | CRUDE DEATH RATE | AGE-ADJUSTED DEATH RATE | 95% CONFIDENCE LIMITS | | |
|------------|---|-------------------|----------------------------|------------------|-------------------------|-----------------------|------------|--|
| | | | | | | LOWER | UPPER | |
| 1 | ALPINE | 1,228 | 0.0 | - | - | - | - | |
| 2 | SAN BENITO | 57,366 | 2.0 | 3.5* | 3.3* | 0.4 | 11.8 | |
| 3 | IMPERIAL | 179,326 | 6.7 | 3.7* | 3.7* | 1.4 | 7.8 | |
| 4 | SAN FRANCISCO | 833,827 | 31.3 | 3.8 | 3.8 | 2.6 | 5.4 | |
| 5 | SAN MATEO | 741,857 | 29.3 | 4.0 | 3.9 | 2.6 | 5.6 | |
| 6 | MONO | 14,376 | 0.7 | 4.6* | 4.0* | 0.0 | 29.9 | |
| 7 | SANTA CLARA | 1,850,595 | 81.7 | 4.4 | 4.4 | 3.5 | 5.4 | |
| 8 | MARIN | 256,264 | 13.3 | 5.2* | 4.5* | 2.4 | 7.7 | |
| 9 | ORANGE | 3,097,966 | 149.0 | 4.8 | 4.7 | 3.9 | 5.4 | |
| 10 | KINGS | 152,456 | 7.0 | 4.6* | 4.7* | 1.9 | 9.8 | |
| 11 | YOLO | 206,621 | 10.3 | 5.0* | 5.0* | 2.4 | 9.1 | |
| 12 | SANTA BARBARA | 433,157 | 25.0 | 5.8 | 5.6 | 3.6 | 8.3 | |
| 13 | INYO | 19,241 | 2.0 | 10.4* | 5.6* | 0.7 | 20.2 | |
| 14 | NAPA | 139,831 | 8.7 | 6.2* | 5.8* | 2.6 | 11.1 | |
| 15 | SONOMA | 493,070 | 34.0 | 6.9 | 6.1 | 4.2 | 8.5 | |
| 16 | SAN DIEGO | 3,184,072 | 203.7 | 6.4 | 6.2 | 5.3 | 7.0 | |
| 17 | PLACER | 365,125 | 28.0 | 7.7 | 6.8 | 4.5 | 9.9 | |
| 18 | LOS ANGELES | 10,010,961 | 714.0 | 7.1 | 6.9 | 6.4 | 7.5 | |
| 19 | GLENN | 28,599 | 2.0 | 7.0* | 7.0* | 0.8 | 25.1 | |
| 20 | VENTURA | 839,617 | 61.3 | 7.3 | 7.2 | 5.5 | 9.2 | |
| 21 | RIVERSIDE | 2,264,173 | 169.0 | 7.5 | 7.5 | 6.3 | 8.6 | |
| | CALIFORNIA | 38,202,206 | 2,983.7 | 7.8 | 7.6 | 7.4 | 7.9 | |
| 22 | SANTA CRUZ | 271,495 | 22.3 | 8.2 | 8.2 | 5.1 | 12.3 | |
| 23 | YUBA | 73,600 | 6.0 | 8.2* | 8.8* | 3.2 | 19.2 | |
| 24 | SAN BERNARDINO | 2,075,160 | 185.3 | 8.9 | 9.2 | 7.8 | 10.5 | |
| 25 | ALAMEDA | 1,563,370 | 145.7 | 9.3 | 9.2 | 7.7 | 10.7 | |
| 26 | CONTRA COSTA | 1,081,862 | 99.3 | 9.2 | 9.3 | 7.6 | 11.3 | |
| | HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: IVP-30 | | | | | 9.3 | | |
| 27 | SAN LUIS OBISPO | 271,740 | 30.3 | 11.2 | 9.5 | 6.4 | 13.5 | |
| 28 | EL DORADO | 184,054 | 20.0 | 10.9 | 9.8 | 6.0 | 15.1 | |
| 29 | STANISLAUS | 527,232 | 52.7 | 10.0 | 10.0 | 7.4 | 13.0 | |
| 30 | SACRAMENTO | 1,448,268 | 148.0 | 10.2 | 10.1 | 8.4 | 11.7 | |
| 31 | BUTTE | 222,035 | 24.7 | 11.1 | 10.1 | 6.5 | 15.0 | |
| 32 | FRESNO | 958,260 | 100.0 | 10.4 | 10.7 | 8.5 | 12.8 | |
| 33 | TUOLUMNE | 54,811 | 6.0 | 10.9* | 10.9* | 4.0 | 23.8 | |
| 34 | MERCED | 263,441 | 30.0 | 11.4 | 11.2 | 7.6 | 16.0 | |
| 35 | MADERA | 153,409 | 17.7 | 11.5* | 11.3* | 6.7 | 18.0 | |
| 36 | NEVADA | 98,317 | 13.7 | 13.9* | 11.4* | 6.2 | 19.2 | |
| 37 | TULARE | 456,075 | 50.0 | 11.0 | 11.5 | 8.5 | 15.1 | |
| 38 | AMADOR | 36,945 | 7.0 | 18.9* | 11.7* | 4.7 | 24.1 | |
| 39 | MONTEREY | 424,119 | 50.3 | 11.9 | 11.8 | 8.8 | 15.5 | |
| 40 | KERN | 869,797 | 101.0 | 11.6 | 12.1 | 9.7 | 14.5 | |
| 41 | SAN JOAQUIN | 703,790 | 89.3 | 12.7 | 12.7 | 10.2 | 15.6 | |
| 42 | SOLANO | 424,048 | 56.0 | 13.2 | 13.0 | 9.8 | 16.9 | |
| 43 | LASSEN | 34,966 | 4.7 | 13.3* | 13.1* | 4.0 | 31.4 | |
| 44 | HUMBOLDT | 136,480 | 20.0 | 14.7 | 13.8 | 8.4 | 21.3 | |
| 45 | SUTTER | 97,386 | 13.7 | 14.0* | 14.1* | 7.7 | 23.9 | |
| 46 | SHASTA | 178,591 | 29.0 | 16.2 | 14.2 | 9.5 | 20.3 | |
| 47 | MENDOCINO | 88,931 | 13.0 | 14.6* | 14.8* | 7.9 | 25.4 | |
| 48 | SIERRA | 3,270 | 0.7 | 20.4* | 15.1* | 0.1 | 112.7 | |
| 49 | PLUMAS | 19,466 | 3.7 | 18.8* | 15.7* | 4.0 | 41.8 | |
| 50 | SISKIYOU | 45,215 | 8.3 | 18.4* | 16.1* | 7.1 | 31.3 | |
| 51 | TEHAMA | 64,498 | 11.7 | 18.1* | 16.3* | 8.3 | 28.8 | |
| 52 | LAKE | 64,782 | 12.3 | 19.0* | 17.1* | 8.9 | 29.7 | |
| 53 | CALAVERAS | 45,214 | 8.3 | 18.4* | 17.3* | 7.6 | 33.6 | |
| 54 | COLUSA | 21,987 | 4.3 | 19.7* | 20.0* | 5.8 | 49.5 | |
| 55 | DEL NORTE | 28,530 | 6.7 | 23.4* | 21.2* | 8.3 | 44.4 | |
| 56 | MARIPOSA | 18,101 | 4.7 | 25.8* | 23.0* | 7.1 | 55.2 | |
| 57 | MODOC | 9,457 | 3.0 | 31.7* | 31.4* | 6.5 | 91.7 | |
| 58 | TRINITY | 13,776 | 5.3 | 38.7* | 36.5* | 12.4 | 83.1 | |

* Rates are deemed unreliable based on fewer than 20 data elements.

- Rates, percentages, and confidence limits are not calculated for zero events.

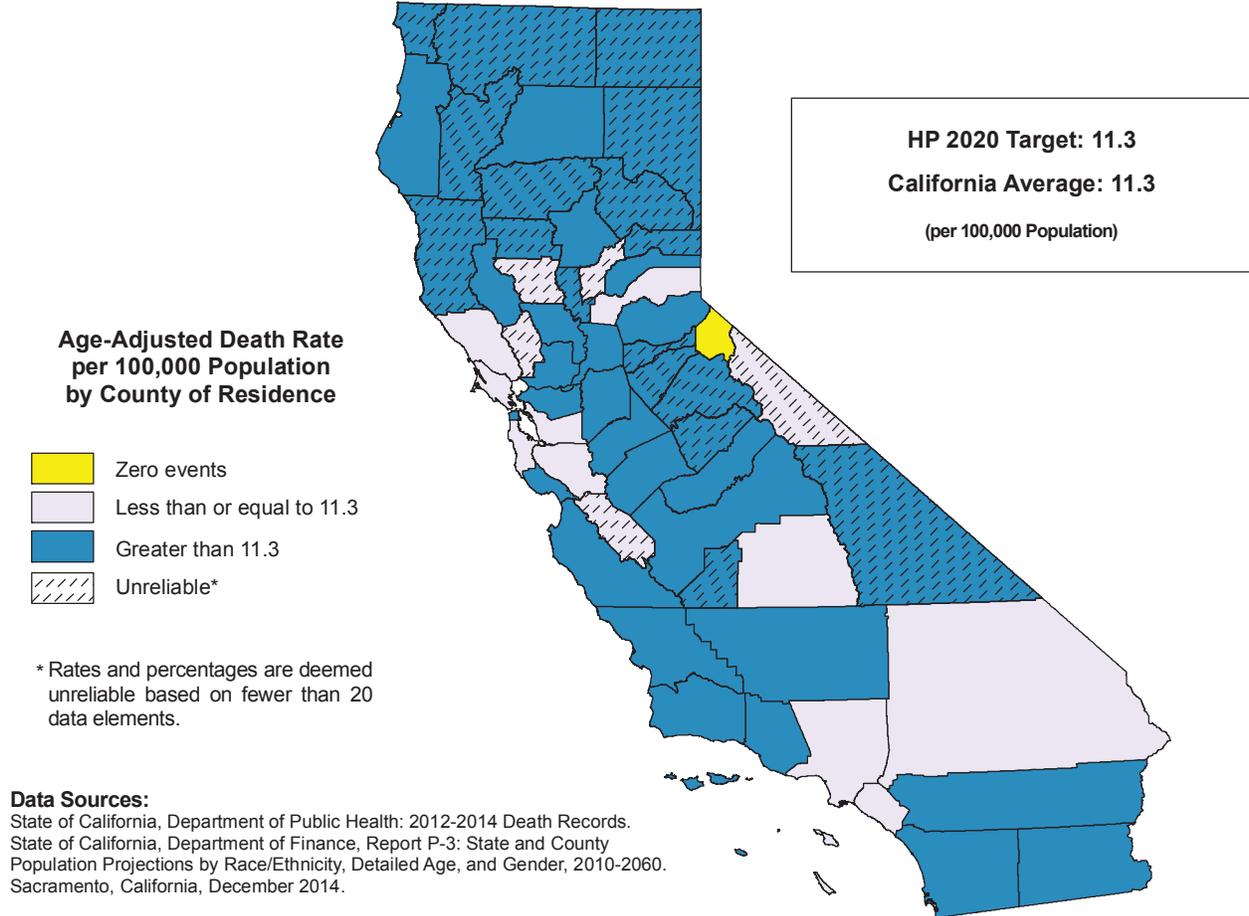
Note: Counties were rank ordered first by increasing age-adjusted death rate (calculated to 15 decimal places), second by decreasing population count.

Sources: State of California, Department of Public Health: 2012-2014 Death Records.

State of California, Department of Finance, Report P-3: State and County Population Projections by Race/Ethnicity, Detailed Age, and Gender, 2010-2060.

Sacramento, California, December 2014.

DRUG-INDUCED DEATHS, 2012-2014



The crude death rate from deaths due to drug-induced causes for California was 11.8 deaths per 100,000 population, a risk of dying from a drug-induced cause equivalent to approximately one death for every 8,449.9 persons. The crude death rate for California was based on a 2012 through 2014 three-year average number of deaths equaling 4,521.0 and a population count of 38,202,206 as of July 1, 2013. Among counties with reliable rates, the crude death rate ranged from 46.3 in Lake County to 7.6 in Los Angeles County, a factor of 6.1 to 1.

The age-adjusted death rate from deaths due to drug-induced causes for California during the 2012 through 2014 three-year period was 11.3 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 43.6 in Lake County to 7.2 in Los Angeles County.

Ten counties with reliable age-adjusted death rates and California as a whole met the Healthy People 2020 National Objective SA-12 of no more than 11.3 age-adjusted deaths due to drug-induced causes per 100,000 population. An additional five counties with unreliable rates and one county with no deaths due to drug-induced causes met the objective.

The California age-adjusted death rate from deaths due to drug-induced causes for the 2009-2011 period was 11.0 per 100,000 population.

**TABLE 19
DRUG-INDUCED DEATHS
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE
CALIFORNIA COUNTIES, 2012-2014**

| RANK ORDER | COUNTY OF RESIDENCE | 2013 POPULATION | 2012-2014 DEATHS (AVERAGE) | CRUDE DEATH RATE | AGE-ADJUSTED DEATH RATE | 95% CONFIDENCE LIMITS | |
|--|---------------------|-------------------|----------------------------|------------------|-------------------------|-----------------------|-------------|
| | | | | | | LOWER | UPPER |
| 1 | ALPINE | 1,228 | 0.0 | - | - | - | - |
| 2 | LOS ANGELES | 10,010,961 | 756.0 | 7.6 | 7.2 | 6.7 | 7.7 |
| 3 | SAN MATEO | 741,857 | 60.3 | 8.1 | 7.3 | 5.5 | 9.3 |
| 4 | MONO | 14,376 | 1.0 | 7.0 * | 7.3 * | 0.2 | 40.9 |
| 5 | SANTA CLARA | 1,850,595 | 150.3 | 8.1 | 7.6 | 6.4 | 8.8 |
| 6 | COLUSA | 21,987 | 1.3 | 6.1 * | 7.9 * | 0.4 | 36.4 |
| 7 | TULARE | 456,075 | 36.0 | 7.9 | 8.6 | 6.0 | 11.9 |
| 8 | PLACER | 365,125 | 36.3 | 10.0 | 9.6 | 6.7 | 13.3 |
| 9 | ALAMEDA | 1,563,370 | 162.3 | 10.4 | 9.6 | 8.1 | 11.1 |
| 10 | SAN BENITO | 57,366 | 6.0 | 10.5 * | 10.2 * | 3.8 | 22.3 |
| 11 | SAN BERNARDINO | 2,075,160 | 213.0 | 10.3 | 10.3 | 8.9 | 11.7 |
| 12 | NAPA | 139,831 | 16.7 | 11.9 * | 10.4 * | 6.0 | 16.8 |
| 13 | YUBA | 73,600 | 7.7 | 10.4 * | 10.5 * | 4.5 | 21.1 |
| 14 | ORANGE | 3,097,966 | 352.3 | 11.4 | 10.8 | 9.7 | 12.0 |
| 15 | MARIN | 256,264 | 32.0 | 12.5 | 10.9 | 7.4 | 15.3 |
| 16 | SONOMA | 493,070 | 59.3 | 12.0 | 11.1 | 8.5 | 14.3 |
| | CALIFORNIA | 38,202,206 | 4,521.0 | 11.8 | 11.3 | 11.0 | 11.7 |
| HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: SA-12 | | | | | | 11.3 | |
| 17 | FRESNO | 958,260 | 104.7 | 10.9 | 11.6 | 9.3 | 13.8 |
| 18 | CONTRA COSTA | 1,081,862 | 135.3 | 12.5 | 11.7 | 9.7 | 13.7 |
| 19 | SOLANO | 424,048 | 52.7 | 12.4 | 11.8 | 8.8 | 15.4 |
| 20 | SANTA BARBARA | 433,157 | 53.0 | 12.2 | 12.4 | 9.3 | 16.2 |
| 21 | MONTEREY | 424,119 | 51.3 | 12.1 | 12.4 | 9.2 | 16.3 |
| 22 | YOLO | 206,621 | 24.7 | 11.9 | 12.4 | 8.0 | 18.4 |
| 23 | SUTTER | 97,386 | 12.3 | 12.7 * | 12.8 * | 6.7 | 22.2 |
| 24 | KINGS | 152,456 | 19.3 | 12.7 * | 12.9 * | 7.8 | 20.1 |
| 25 | SAN DIEGO | 3,184,072 | 435.3 | 13.7 | 13.0 | 11.8 | 14.3 |
| 26 | SAN LUIS OBISPO | 271,740 | 37.0 | 13.6 | 13.6 | 9.6 | 18.7 |
| 27 | SAN FRANCISCO | 833,827 | 137.0 | 16.4 | 13.9 | 11.5 | 16.3 |
| 28 | VENTURA | 839,617 | 120.7 | 14.4 | 14.0 | 11.5 | 16.6 |
| 29 | RIVERSIDE | 2,264,173 | 322.7 | 14.3 | 14.2 | 12.7 | 15.8 |
| 30 | MERCED | 263,441 | 35.3 | 13.4 | 14.3 | 10.0 | 19.9 |
| 31 | TEHAMA | 64,498 | 9.7 | 15.0 * | 14.4 * | 6.8 | 26.7 |
| 32 | DEL NORTE | 28,530 | 5.0 | 17.5 * | 14.6 * | 4.7 | 34.1 |
| 33 | STANISLAUS | 527,232 | 77.3 | 14.7 | 14.7 | 11.6 | 18.4 |
| 34 | IMPERIAL | 179,326 | 25.7 | 14.3 | 15.1 | 9.8 | 22.2 |
| 35 | SACRAMENTO | 1,448,268 | 239.7 | 16.5 | 15.8 | 13.8 | 17.8 |
| 36 | SAN JOAQUIN | 703,790 | 114.0 | 16.2 | 16.3 | 13.3 | 19.3 |
| 37 | MADERA | 153,409 | 24.0 | 15.6 | 16.3 | 10.5 | 24.3 |
| 38 | SISKIYOU | 45,215 | 6.7 | 14.7 * | 17.4 * | 6.8 | 36.5 |
| 39 | CALAVERAS | 45,214 | 8.3 | 18.4 * | 17.6 * | 7.8 | 34.3 |
| 40 | SIERRA | 3,270 | 1.0 | 30.6 * | 17.7 * | 0.4 | 98.7 |
| 41 | SANTA CRUZ | 271,495 | 52.0 | 19.2 | 18.5 | 13.8 | 24.3 |
| 42 | MENDOCINO | 88,931 | 17.3 | 19.5 * | 19.1 * | 11.2 | 30.4 |
| 43 | EL DORADO | 184,054 | 37.7 | 20.5 | 19.2 | 13.6 | 26.4 |
| 44 | GLENN | 28,599 | 5.7 | 19.8 * | 20.3 * | 7.2 | 45.2 |
| 45 | TRINITY | 13,776 | 2.7 | 19.4 * | 21.9 * | 3.9 | 67.8 |
| 46 | KERN | 869,797 | 187.0 | 21.5 | 22.0 | 18.8 | 25.2 |
| 47 | NEVADA | 98,317 | 23.0 | 23.4 | 22.4 | 14.2 | 33.6 |
| 48 | INYO | 19,241 | 4.7 | 24.3 * | 22.6 * | 7.0 | 54.2 |
| 49 | TUOLUMNE | 54,811 | 15.3 | 28.0 * | 23.5 * | 13.3 | 38.6 |
| 50 | AMADOR | 36,945 | 10.7 | 28.9 * | 24.4 * | 12.0 | 44.0 |
| 51 | LASSEN | 34,966 | 10.0 | 28.6 * | 25.8 * | 12.4 | 47.4 |
| 52 | SHASTA | 178,591 | 47.0 | 26.3 | 27.2 | 20.0 | 36.2 |
| 53 | MARIPOSA | 18,101 | 5.3 | 29.5 * | 27.4 * | 9.3 | 62.3 |
| 54 | BUTTE | 222,035 | 68.3 | 30.8 | 30.7 | 23.8 | 38.9 |
| 55 | HUMBOLDT | 136,480 | 48.7 | 35.7 | 33.9 | 25.0 | 44.8 |
| 56 | MODOC | 9,457 | 3.0 | 31.7 * | 37.9 * | 7.8 | 110.6 |
| 57 | PLUMAS | 19,466 | 9.3 | 47.9 * | 43.4 * | 20.2 | 81.5 |
| 58 | LAKE | 64,782 | 30.0 | 46.3 | 43.6 | 29.4 | 62.2 |

* Rates are deemed unreliable based on fewer than 20 data elements.

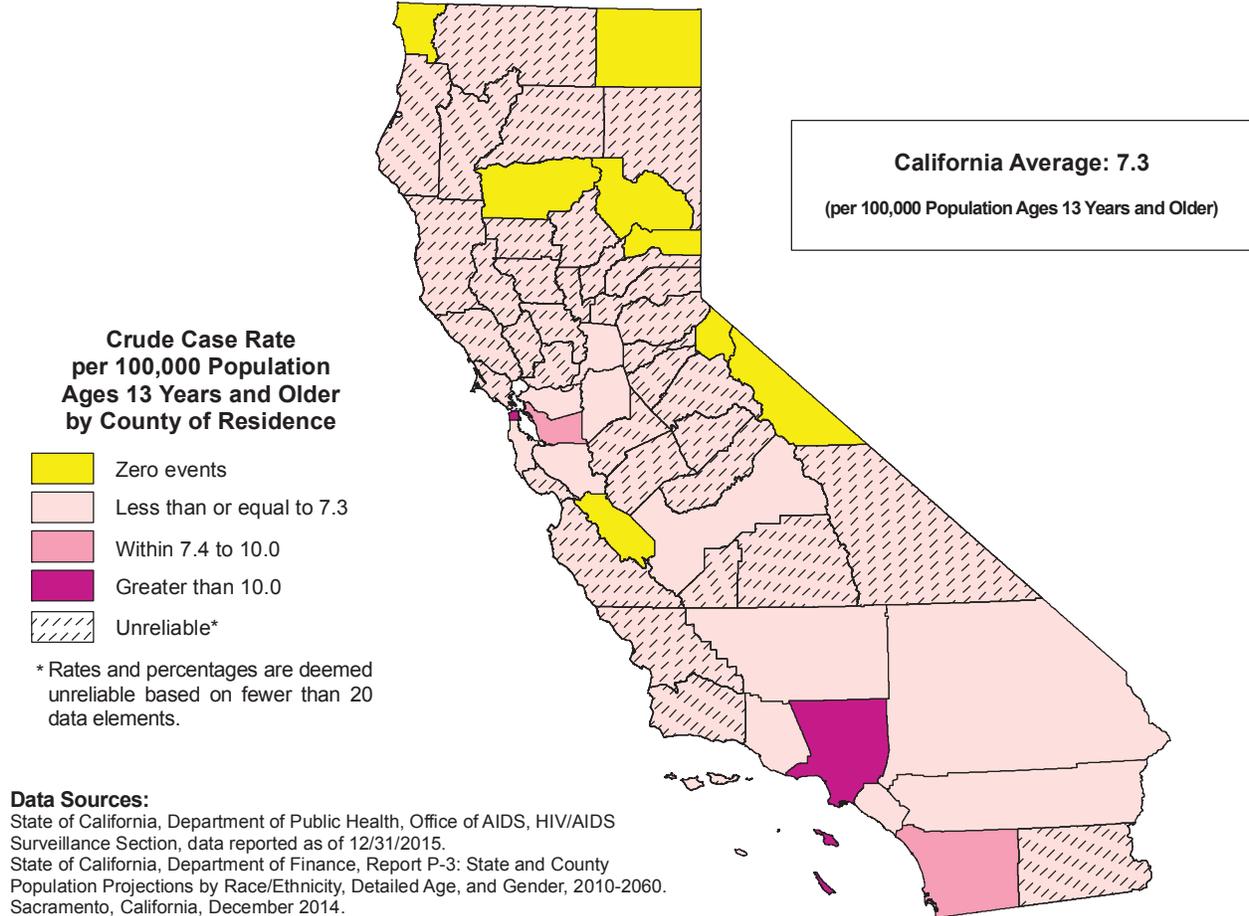
- Rates, percentages, and confidence limits are not calculated for zero events.

Note: Counties were rank ordered first by increasing age-adjusted death rate (calculated to 15 decimal places), second by decreasing population count.

Sources: State of California, Department of Public Health: 2012-2014 Death Records.

State of California, Department of Finance, Report P-3: State and County Population Projections by Race/Ethnicity, Detailed Age, and Gender, 2010-2060. Sacramento, California, December 2014.

REPORTED INCIDENCE OF AIDS AMONG POPULATION AGES 13 YEARS AND OLDER, 2012-2014



The crude case rate of reported AIDS cases for Californians, aged 13 years and older, was 7.3 cases per 100,000 of corresponding age population, or approximately one reported AIDS case for every 13,634.4 population, aged 13 years and older. This rate was based on a 2012 through 2014 three-year average reported number of cases of persons aged 13 years and older equaling 2,323.7 and a corresponding age population count of 31,681,892 as of July 1, 2013.

Among counties with reliable rates, the crude case rate ranged from 26.5 in San Francisco County to 2.9 in Ventura County, a factor of 9.1 to 1.

The Healthy People 2020 National Objective HIV-4 to reduce new AIDS cases among persons ages 13 years and older has been archived. See Technical Notes for more information.

The California crude case rate of reported AIDS cases, aged 13 years and older, for the 2009-2011 period was 10.2.

**TABLE 20
REPORTED INCIDENCE OF AIDS AMONG POPULATION AGES 13 YEARS AND OVER
RANKED BY THREE-YEAR AVERAGE CRUDE CASE RATE
CALIFORNIA COUNTIES, 2012-2014**

| RANK ORDER | COUNTY OF RESIDENCE | 2013 POPULATION (AGES 13 AND OVER) | 2012-2014 CASES (AVERAGE) | CRUDE CASE RATE | 95% CONFIDENCE LIMITS | |
|---|---------------------|------------------------------------|---------------------------|-----------------|-----------------------|------------|
| | | | | | LOWER | UPPER |
| HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: NOT APPLICABLE | | | | | | |
| 1 | TEHAMA | 53,503 | 0.0 | - | - | - |
| 2 | SAN BENITO | 46,645 | 0.0 | - | - | - |
| 3 | DEL NORTE | 24,344 | 0.0 | - | - | - |
| 4 | PLUMAS | 17,247 | 0.0 | - | - | - |
| 5 | MONO | 12,243 | 0.0 | - | - | - |
| 6 | MODOC | 8,266 | 0.0 | - | - | - |
| 7 | SIERRA | 2,934 | 0.0 | - | - | - |
| 8 | ALPINE | 1,054 | 0.0 | - | - | - |
| 9 | PLACER | 307,667 | 2.0 | 0.7 * | 0.1 | 2.3 |
| 10 | SUTTER | 78,999 | 1.0 | 1.3 * | 0.0 | 7.1 |
| 11 | MENDOCINO | 75,155 | 1.0 | 1.3 * | 0.0 | 7.4 |
| 12 | GLENN | 23,189 | 0.3 | 1.4 * | 0.0 | 18.8 |
| 13 | EL DORADO | 158,444 | 2.3 | 1.5 * | 0.2 | 4.9 |
| 14 | NEVADA | 86,706 | 1.3 | 1.5 * | 0.1 | 7.1 |
| 15 | YOLO | 174,605 | 3.0 | 1.7 * | 0.4 | 5.0 |
| 16 | COLUSA | 17,498 | 0.3 | 1.9 * | 0.0 | 24.9 |
| 17 | BUTTE | 190,009 | 3.7 | 1.9 * | 0.5 | 5.1 |
| 18 | HUMBOLDT | 116,920 | 2.3 | 2.0 * | 0.3 | 6.6 |
| 19 | TUOLUMNE | 48,583 | 1.0 | 2.1 * | 0.1 | 11.5 |
| 20 | LASSEN | 31,095 | 0.7 | 2.1 * | 0.0 | 16.0 |
| 21 | SHASTA | 151,480 | 3.3 | 2.2 * | 0.5 | 6.1 |
| 22 | YUBA | 57,854 | 1.3 | 2.3 * | 0.1 | 10.6 |
| 23 | CALAVERAS | 40,017 | 1.0 | 2.5 * | 0.1 | 13.9 |
| 24 | SANTA BARBARA | 362,129 | 9.3 | 2.6 * | 1.2 | 4.8 |
| 25 | MERCED | 206,818 | 5.3 | 2.6 * | 0.9 | 5.9 |
| 26 | TRINITY | 12,166 | 0.3 | 2.7 * | 0.0 | 35.8 |
| 27 | SANTA CRUZ | 230,108 | 6.3 | 2.8 * | 1.0 | 5.9 |
| 28 | VENTURA | 695,673 | 20.0 | 2.9 | 1.8 | 4.4 |
| 29 | AMADOR | 33,191 | 1.0 | 3.0 * | 0.1 | 16.8 |
| 30 | SAN LUIS OBISPO | 236,667 | 7.7 | 3.2 * | 1.4 | 6.5 |
| 31 | KINGS | 123,185 | 4.0 | 3.2 * | 0.9 | 8.3 |
| 32 | MADERA | 123,026 | 4.0 | 3.3 * | 0.9 | 8.3 |
| 33 | SAN MATEO | 623,451 | 21.0 | 3.4 | 2.1 | 5.1 |
| 34 | SONOMA | 419,797 | 15.0 | 3.6 * | 2.0 | 5.9 |
| 35 | STANISLAUS | 424,702 | 15.3 | 3.6 * | 2.0 | 5.9 |
| 36 | LAKE | 55,370 | 2.0 | 3.6 * | 0.4 | 13.0 |
| 37 | MARIN | 219,607 | 8.0 | 3.6 * | 1.6 | 7.2 |
| 38 | NAPA | 118,604 | 4.3 | 3.7 * | 1.1 | 9.0 |
| 39 | INYO | 16,523 | 0.7 | 4.0 * | 0.0 | 30.1 |
| 40 | TULARE | 352,242 | 14.3 | 4.1 * | 2.2 | 6.8 |
| 41 | MARIPOSA | 16,121 | 0.7 | 4.1 * | 0.0 | 30.9 |
| 42 | MONTEREY | 343,948 | 14.3 | 4.2 * | 2.3 | 7.0 |
| 43 | SANTA CLARA | 1,531,856 | 67.7 | 4.4 | 3.4 | 5.6 |
| 44 | CONTRA COSTA | 903,772 | 43.0 | 4.8 | 3.4 | 6.4 |
| 45 | SAN JOAQUIN | 564,466 | 27.3 | 4.8 | 3.2 | 7.0 |
| 46 | ORANGE | 2,592,555 | 128.3 | 5.0 | 4.1 | 5.8 |
| 47 | SACRAMENTO | 1,190,388 | 60.7 | 5.1 | 3.9 | 6.6 |
| 48 | KERN | 686,558 | 35.0 | 5.1 | 3.6 | 7.1 |
| 49 | SISKIYOU | 38,890 | 2.0 | 5.1 * | 0.6 | 18.6 |
| 50 | SOLANO | 354,170 | 19.0 | 5.4 * | 3.2 | 8.4 |
| 51 | IMPERIAL | 142,881 | 7.7 | 5.4 * | 2.3 | 10.7 |
| 52 | SAN BERNARDINO | 1,672,361 | 100.7 | 6.0 | 4.8 | 7.2 |
| 53 | RIVERSIDE | 1,843,708 | 120.3 | 6.5 | 5.4 | 7.7 |
| 54 | FRESNO | 757,296 | 53.0 | 7.0 | 5.2 | 9.2 |
| | CALIFORNIA | 31,681,892 | 2,323.7 | 7.3 | 7.0 | 7.6 |
| 55 | SAN DIEGO | 2,655,163 | 234.0 | 8.8 | 7.7 | 9.9 |
| 56 | ALAMEDA | 1,312,719 | 117.3 | 8.9 | 7.3 | 10.6 |
| 57 | LOS ANGELES | 8,352,586 | 931.7 | 11.2 | 10.4 | 11.9 |
| 58 | SAN FRANCISCO | 744,738 | 197.7 | 26.5 | 22.8 | 30.2 |

* Rates are deemed unreliable based on fewer than 20 data elements.

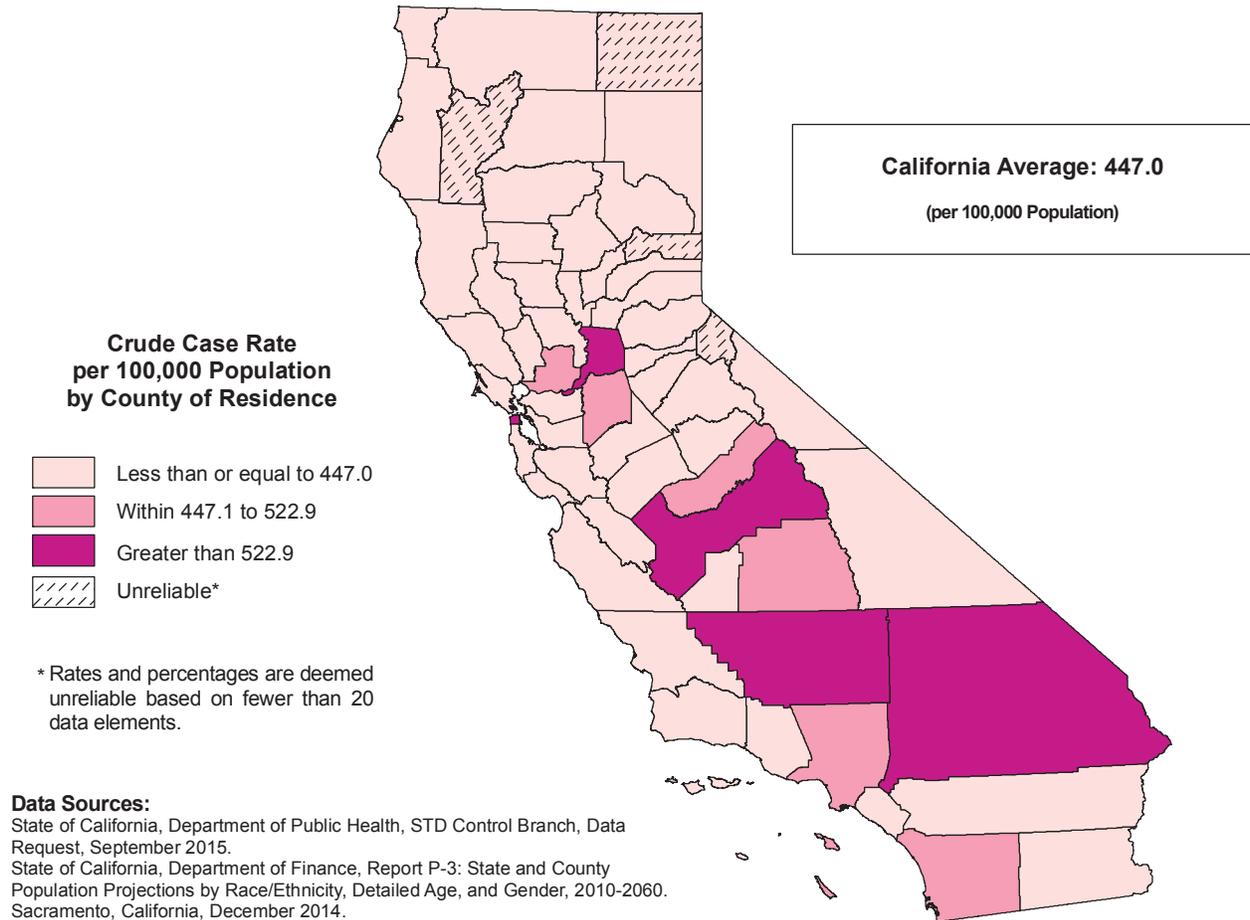
- Rates, percentages, and confidence limits are not calculated for zero events.

Note: Counties were rank ordered first by increasing crude case rate (calculated to 15 decimal places), second by decreasing population count.

Sources: State of California, Department of Public Health, Office of AIDS, HIV/AIDS Surveillance Section, data as of 12/31/2015.

State of California, Department of Finance, Report P-3: State and County Population Projections by Race/Ethnicity, Detailed Age, and Gender, 2010-2060. Sacramento, California, December 2014.

REPORTED INCIDENCE OF CHLAMYDIA, 2012-2014



The crude case rate of reported incidence of chlamydia for California was 447.0 cases per 100,000 population, or approximately one reported incidence of chlamydia for every 223.7 persons. The crude case rate for California was based on a 2012 through 2014 three-year average number of reported incidence of chlamydia cases equaling 170,779.7 and a population count of 38,202,206 as of July 1, 2013.

Among counties with reliable rates, the crude case rate of reported incidence of chlamydia ranged from 718.4 in Kern County to 129.7 in Del Norte County, a factor of 5.5 to 1.

Prevalence data are not available in all California counties to evaluate the Healthy People 2020 National Objective STD-1, as the Healthy People objective is restricted to females ages 15 to 24 years old and identified at a family planning clinic, and males and females under 24 years old who participate in a national job training program.

The California crude case rate of reported incidence of chlamydia for the 2009-2011 period was 417.6 per 100,000 population.

**TABLE 21
REPORTED INCIDENCE OF CHLAMYDIA
RANKED BY THREE-YEAR AVERAGE CRUDE CASE RATE
CALIFORNIA COUNTIES, 2012-2014**

| RANK ORDER | COUNTY OF RESIDENCE | 2013 POPULATION | 2012-2014 CASES (AVERAGE) | CRUDE CASE RATE | 95% CONFIDENCE LIMITS | | |
|---|---------------------|-------------------|---------------------------|-----------------|-----------------------|--------------|--|
| | | | | | LOWER | UPPER | |
| HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: STD-1 (NOT APPLICABLE) | | | | | | | |
| 1 | SIERRA | 3,270 | 2.7 | 81.5 * | 14.7 | 252.7 | |
| 2 | MODOC | 9,457 | 8.7 | 91.6 * | 41.2 | 176.0 | |
| 3 | TRINITY | 13,776 | 13.7 | 99.2 * | 53.8 | 167.5 | |
| 4 | DEL NORTE | 28,530 | 37.0 | 129.7 | 91.3 | 178.8 | |
| 5 | COLUSA | 21,987 | 32.7 | 148.6 | 102.1 | 209.0 | |
| 6 | MARIPOSA | 18,101 | 28.3 | 156.5 | 104.3 | 225.7 | |
| 7 | CALAVERAS | 45,214 | 74.7 | 165.1 | 129.8 | 207.1 | |
| 8 | EL DORADO | 184,054 | 304.3 | 165.4 | 146.8 | 183.9 | |
| 9 | MONO | 14,376 | 24.0 | 166.9 | 107.0 | 248.4 | |
| 10 | TUOLUMNE | 54,811 | 93.3 | 170.3 | 137.5 | 208.5 | |
| 11 | AMADOR | 36,945 | 64.7 | 175.0 | 135.0 | 223.2 | |
| 12 | SISKIYOU | 45,215 | 82.3 | 182.1 | 144.9 | 225.9 | |
| 13 | ALPINE | 1,228 | 2.3 | 190.0 * | 28.8 | 631.0 | |
| 14 | NEVADA | 98,317 | 190.3 | 193.6 | 166.1 | 221.1 | |
| 15 | MARIN | 256,264 | 512.3 | 199.9 | 182.6 | 217.2 | |
| 16 | LASSEN | 34,966 | 71.3 | 204.0 | 159.4 | 257.2 | |
| 17 | PLACER | 365,125 | 821.3 | 224.9 | 209.6 | 240.3 | |
| 18 | NAPA | 139,831 | 341.3 | 244.1 | 218.2 | 270.0 | |
| 19 | LAKE | 64,782 | 168.0 | 259.3 | 220.1 | 298.5 | |
| 20 | SAN MATEO | 741,857 | 1,949.0 | 262.7 | 251.1 | 274.4 | |
| 21 | GLENN | 28,599 | 78.7 | 275.1 | 217.7 | 343.0 | |
| 22 | ORANGE | 3,097,966 | 8,857.3 | 285.9 | 280.0 | 291.9 | |
| 23 | PLUMAS | 19,466 | 56.7 | 291.1 | 220.3 | 377.4 | |
| 24 | SUTTER | 97,386 | 284.0 | 291.6 | 257.7 | 325.5 | |
| 25 | YUBA | 73,600 | 216.3 | 293.9 | 254.8 | 333.1 | |
| 26 | HUMBOLDT | 136,480 | 412.7 | 302.4 | 273.2 | 331.5 | |
| 27 | VENTURA | 839,617 | 2,542.3 | 302.8 | 291.0 | 314.6 | |
| 28 | SONOMA | 493,070 | 1,531.3 | 310.6 | 295.0 | 326.1 | |
| 29 | SANTA CLARA | 1,850,595 | 5,783.0 | 312.5 | 304.4 | 320.5 | |
| 30 | TEHAMA | 64,498 | 202.0 | 313.2 | 270.0 | 356.4 | |
| 31 | SAN BENITO | 57,366 | 187.3 | 326.6 | 279.8 | 373.3 | |
| 32 | YOLO | 206,621 | 692.0 | 334.9 | 310.0 | 359.9 | |
| 33 | SANTA CRUZ | 271,495 | 926.7 | 341.3 | 319.3 | 363.3 | |
| 34 | SHASTA | 178,591 | 617.3 | 345.7 | 318.4 | 372.9 | |
| 35 | IMPERIAL | 179,326 | 633.0 | 353.0 | 325.5 | 380.5 | |
| 36 | SAN LUIS OBISPO | 271,740 | 961.7 | 353.9 | 331.5 | 376.3 | |
| 37 | INYO | 19,241 | 68.7 | 356.9 | 277.5 | 451.9 | |
| 38 | KINGS | 152,456 | 555.0 | 364.0 | 333.8 | 394.3 | |
| 39 | MENDOCINO | 88,931 | 326.3 | 367.0 | 327.1 | 406.8 | |
| 40 | CONTRA COSTA | 1,081,862 | 4,044.0 | 373.8 | 362.3 | 385.3 | |
| 41 | STANISLAUS | 527,232 | 2,064.3 | 391.5 | 374.7 | 408.4 | |
| 42 | RIVERSIDE | 2,264,173 | 8,922.7 | 394.1 | 385.9 | 402.3 | |
| 43 | MONTEREY | 424,119 | 1,674.0 | 394.7 | 375.8 | 413.6 | |
| 44 | MERCED | 263,441 | 1,058.7 | 401.9 | 377.7 | 426.1 | |
| 45 | ALAMEDA | 1,563,370 | 6,661.3 | 426.1 | 415.9 | 436.3 | |
| 46 | BUTTE | 222,035 | 952.3 | 428.9 | 401.7 | 456.2 | |
| 47 | SANTA BARBARA | 433,157 | 1,882.0 | 434.5 | 414.9 | 454.1 | |
| | CALIFORNIA | 38,202,206 | 170,779.7 | 447.0 | 444.9 | 449.2 | |
| 48 | MADERA | 153,409 | 690.0 | 449.8 | 416.2 | 483.3 | |
| 49 | TULARE | 456,075 | 2,252.3 | 493.9 | 473.5 | 514.2 | |
| 50 | SAN JOAQUIN | 703,790 | 3,513.0 | 499.2 | 482.6 | 515.7 | |
| 51 | SOLANO | 424,048 | 2,122.0 | 500.4 | 479.1 | 521.7 | |
| 52 | SAN DIEGO | 3,184,072 | 16,099.7 | 505.6 | 497.8 | 513.4 | |
| 53 | LOS ANGELES | 10,010,961 | 52,350.7 | 522.9 | 518.5 | 527.4 | |
| 54 | SAN BERNARDINO | 2,075,160 | 11,191.0 | 539.3 | 529.3 | 549.3 | |
| 55 | SACRAMENTO | 1,448,268 | 8,018.0 | 553.6 | 541.5 | 565.7 | |
| 56 | FRESNO | 958,260 | 5,962.3 | 622.2 | 606.4 | 638.0 | |
| 57 | SAN FRANCISCO | 833,827 | 5,318.0 | 637.8 | 620.6 | 654.9 | |
| 58 | KERN | 869,797 | 6,248.7 | 718.4 | 700.6 | 736.2 | |

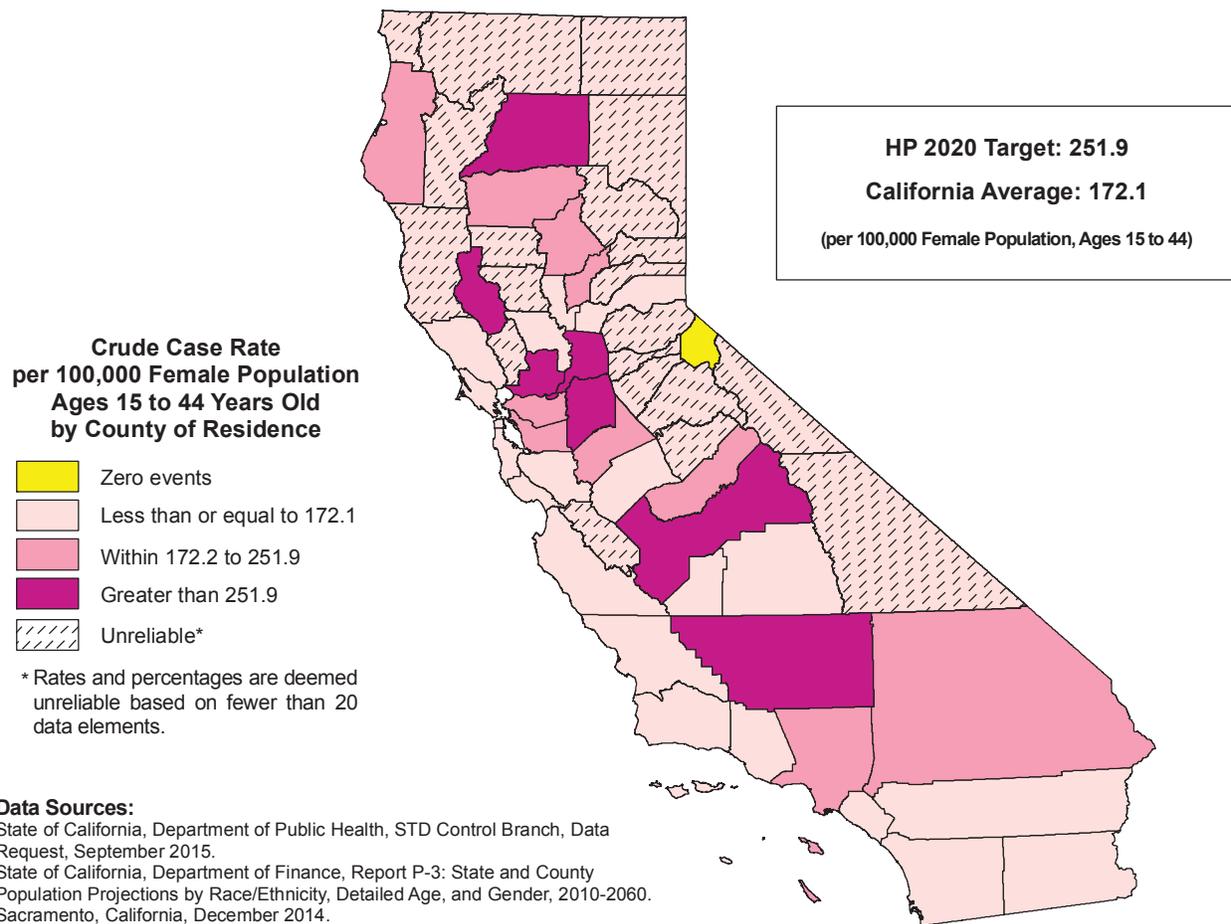
* Rates are deemed unreliable based on fewer than 20 data elements.

Note: Counties were rank ordered first by increasing crude case rate (calculated to 15 decimal places), second by decreasing population count.

Sources: State of California, Department of Public Health, STD Control Branch, Data Request, September 2015.

State of California, Department of Finance, Report P-3: State and County Population Projections by Race/Ethnicity, Detailed Age, and Gender, 2010-2060. Sacramento, California, December 2014.

REPORTED INCIDENCE OF GONORRHEA AMONG FEMALES 15 TO 44 YEARS OLD, 2012-2014



The crude case rate of reported incidence of gonorrhea among females, ages 15 to 44 years old for California was 172.1 cases per 100,000 female population, ages 15 to 44 years old, or approximately one reported incidence of gonorrhea for every 581.0 females in the corresponding age group. The crude case rate for California was based on a 2012 through 2014 three-year average number of reported incidence of gonorrhea cases among females, ages 15 to 44 years old, equaling 13,621.7 and a corresponding female population count of 7,913,949 as of July 1, 2013.

Among counties with reliable rates, the crude case rate ranged from 422.7 in Fresno County to 52.7 in San Mateo County, a factor of 8.0 to 1.

Thirty counties with reliable crude case rates and California as a whole met the Healthy People 2020 National Objective STD-6.1 of no more than 251.9 new reported incidence of gonorrhea cases per 100,000 female population, ages 15 to 44 years old. An additional twenty counties with unreliable rates and one county with no reported incidence of gonorrhea among females, ages 15 to 44 years old met the objective.

The California crude case rate of reported incidence of gonorrhea among females, ages 15 to 44 years old for the 2009-2011 period was 127.2 per 100,000 female population, ages 15 to 44 years old.

**TABLE 22F
REPORTED INCIDENCE OF GONORRHEA AMONG FEMALES 15 TO 44 YEARS OLD
RANKED BY THREE-YEAR AVERAGE CRUDE CASE RATE
CALIFORNIA COUNTIES, 2012-2014**

| RANK ORDER | COUNTY OF RESIDENCE | 2013 POPULATION (FEMALES AGES 15 TO 44) | 2012-2014 CASES (AVERAGE) | CRUDE CASE RATE | 95% CONFIDENCE LIMITS | | |
|------------|--|---|---------------------------|-----------------|-----------------------|--------------|--|
| | | | | | LOWER | UPPER | |
| 1 | ALPINE | 164 | 0.0 | - | - | - | |
| 2 | MONO | 2,797 | 0.3 | 11.9 * | 0.0 | 155.8 | |
| 3 | MODOC | 1,529 | 0.3 | 21.8 * | 0.0 | 285.0 | |
| 4 | INYO | 2,944 | 0.7 | 22.6 * | 0.1 | 169.2 | |
| 5 | PLUMAS | 2,744 | 0.7 | 24.3 * | 0.1 | 181.5 | |
| 6 | LASSEN | 4,587 | 1.7 | 36.3 * | 3.2 | 145.8 | |
| 7 | EL DORADO | 29,658 | 12.7 | 42.7 * | 22.5 | 73.5 | |
| 8 | SAN MATEO | 141,027 | 74.3 | 52.7 | 41.4 | 66.1 | |
| 9 | DEL NORTE | 4,266 | 2.3 | 54.7 * | 8.3 | 181.6 | |
| 10 | COLUSA | 4,203 | 2.3 | 55.5 * | 8.4 | 184.4 | |
| 11 | NEVADA | 14,759 | 8.3 | 56.5 * | 24.9 | 109.8 | |
| 12 | NAPA | 25,565 | 16.3 | 63.9 * | 36.8 | 103.2 | |
| 13 | MARIPOSA | 2,600 | 1.7 | 64.1 * | 5.7 | 257.3 | |
| 14 | SAN LUIS OBISPO | 49,950 | 32.3 | 64.7 | 44.4 | 91.2 | |
| 15 | IMPERIAL | 34,980 | 23.3 | 66.7 | 42.4 | 99.8 | |
| 16 | CALAVERAS | 6,367 | 4.3 | 68.1 * | 19.8 | 168.4 | |
| 17 | ORANGE | 639,733 | 465.0 | 72.7 | 66.1 | 79.3 | |
| 18 | MARIN | 39,745 | 29.0 | 73.0 | 48.9 | 104.8 | |
| 19 | GLENN | 5,279 | 4.0 | 75.8 * | 20.6 | 194.0 | |
| 20 | AMADOR | 4,749 | 3.7 | 77.2 * | 19.5 | 205.4 | |
| 21 | SONOMA | 91,907 | 75.3 | 82.0 | 64.5 | 102.7 | |
| 22 | SIERRA | 402 | 0.3 | 82.9 * | 0.0 | 1,084.1 | |
| 23 | SANTA BARBARA | 90,664 | 76.0 | 83.8 | 66.0 | 104.9 | |
| 24 | PLACER | 66,371 | 56.0 | 84.4 | 63.7 | 109.6 | |
| 25 | TRINITY | 1,929 | 1.7 | 86.4 * | 7.7 | 346.8 | |
| 26 | VENTURA | 164,404 | 148.3 | 90.2 | 75.7 | 104.7 | |
| 27 | SANTA CRUZ | 55,237 | 52.0 | 94.1 | 70.3 | 123.5 | |
| 28 | MENDOCINO | 14,991 | 15.0 | 100.1 * | 56.0 | 165.0 | |
| 29 | YOLO | 50,748 | 53.7 | 105.8 | 79.4 | 138.1 | |
| 30 | SANTA CLARA | 377,659 | 410.0 | 108.6 | 98.1 | 119.1 | |
| 31 | SISKIYOU | 6,648 | 7.3 | 110.3 * | 45.5 | 223.7 | |
| 32 | SAN BENITO | 11,545 | 13.0 | 112.6 * | 60.0 | 192.6 | |
| 33 | TUOLUMNE | 7,643 | 8.7 | 113.4 * | 50.9 | 217.8 | |
| 34 | MERCED | 55,982 | 67.7 | 120.9 | 93.8 | 153.3 | |
| 35 | SAN FRANCISCO | 193,177 | 239.3 | 123.9 | 108.2 | 139.6 | |
| 36 | RIVERSIDE | 467,166 | 584.3 | 125.1 | 114.9 | 135.2 | |
| 37 | SAN DIEGO | 663,641 | 830.7 | 125.2 | 116.7 | 133.7 | |
| 38 | TULARE | 94,799 | 120.7 | 127.3 | 104.6 | 150.0 | |
| 39 | KINGS | 28,525 | 42.0 | 147.2 | 106.1 | 199.0 | |
| 40 | SUTTER | 19,161 | 28.3 | 147.9 | 98.5 | 213.3 | |
| 41 | MONTEREY | 85,922 | 129.7 | 150.9 | 124.9 | 176.9 | |
| | CALIFORNIA | 7,913,949 | 13,621.7 | 172.1 | 169.2 | 175.0 | |
| 42 | BUTTE | 44,132 | 79.7 | 180.5 | 143.1 | 224.8 | |
| 43 | LOS ANGELES | 2,167,154 | 3,936.0 | 181.6 | 175.9 | 187.3 | |
| 44 | YUBA | 14,835 | 28.0 | 188.7 | 125.4 | 272.8 | |
| 45 | ALAMEDA | 334,576 | 697.7 | 208.5 | 193.0 | 224.0 | |
| 46 | STANISLAUS | 109,465 | 228.3 | 208.6 | 181.5 | 235.6 | |
| 47 | CONTRA COSTA | 209,356 | 452.3 | 216.1 | 196.1 | 236.0 | |
| 48 | MADERA | 33,271 | 74.3 | 223.4 | 175.5 | 280.3 | |
| 49 | TEHAMA | 11,333 | 25.7 | 226.5 | 147.5 | 332.7 | |
| 50 | HUMBOLDT | 27,249 | 64.0 | 234.9 | 180.9 | 299.9 | |
| 51 | SAN BERNARDINO | 448,194 | 1,068.0 | 238.3 | 224.0 | 252.6 | |
| | HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: STD-6.1 | | | | 251.9 | | |
| 52 | SOLANO | 82,886 | 222.0 | 267.8 | 232.6 | 303.1 | |
| 53 | SAN JOAQUIN | 145,064 | 420.3 | 289.8 | 262.1 | 317.5 | |
| 54 | LAKE | 10,264 | 30.0 | 292.3 | 197.2 | 417.3 | |
| 55 | SACRAMENTO | 302,248 | 1,056.3 | 349.5 | 328.4 | 370.6 | |
| 56 | KERN | 174,325 | 613.7 | 352.0 | 324.2 | 379.9 | |
| 57 | SHASTA | 31,308 | 127.7 | 407.8 | 337.0 | 478.5 | |
| 58 | FRESNO | 202,122 | 854.3 | 422.7 | 394.3 | 451.0 | |

* Rates are deemed unreliable based on fewer than 20 data elements.

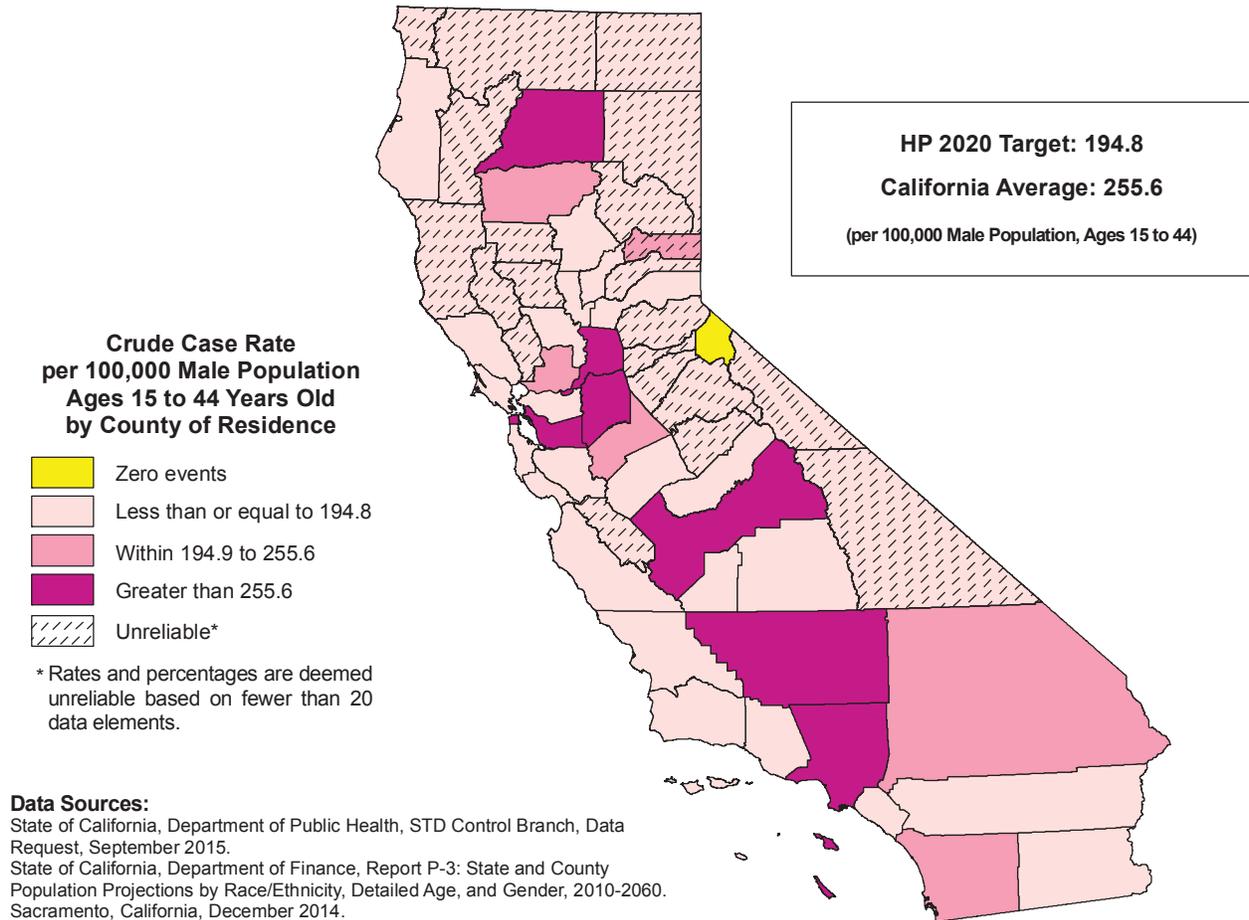
- Rates, percentages, and confidence limits are not calculated for zero events.

Note: Counties were rank ordered first by increasing crude case rate (calculated to 15 decimal places), second by decreasing population count.

Sources: State of California, Department of Public Health, STD Control Branch, Data Request, September 2015.

State of California, Department of Finance, Report P-3: State and County Population Projections by Race/Ethnicity, Detailed Age, and Gender, 2010-2060. Sacramento, California, December 2014.

REPORTED INCIDENCE OF GONORRHEA AMONG MALES 15 TO 44 YEARS OLD, 2012-2014



The crude case rate of reported incidence of gonorrhea among males, ages 15 to 44 years old for California was 255.6 cases per 100,000 male population, ages 15 to 44 years old, or approximately one reported incidence of gonorrhea for every 391.2 males in the corresponding age group. The crude case rate for California was based on a 2012 through 2014 three-year average number of reported incidence of gonorrhea cases among males, ages 15 to 44 years old, equaling 21,180.3 and a corresponding male population count of 8,285,628 as of July 1, 2013.

Among counties with reliable rates, the crude case rate ranged from 977.4 in San Francisco County to 62.5 in Imperial County, a factor of 15.6 to 1.

Twenty-three counties with reliable crude case rates met the Healthy People 2020 National Objective STD-6.2 of no more than 194.8 new reported incidence of gonorrhea cases per 100,000 male population, ages 15 to 44 years old. An additional twenty counties with unreliable rates and one county with no reported incidence of gonorrhea among males, ages 15 to 44 years old met the objective. The statewide crude case rate for reported incidence of gonorrhea among males, ages 15 to 44 years old did not meet the national objective.

The California crude case rate of reported incidence of gonorrhea among males, ages 15 to 44 years old for the 2009-2011 period was 165.5 per 100,000 male population, ages 15 to 44 years old.

**TABLE 22M
REPORTED INCIDENCE OF GONORRHEA AMONG MALES 15 TO 44 YEARS OLD
RANKED BY THREE-YEAR AVERAGE CRUDE CASE RATE
CALIFORNIA COUNTIES, 2012-2014**

| RANK ORDER | COUNTY OF RESIDENCE | 2013 POPULATION (MALES AGES 15 TO 44) | 2012-2014 CASES (AVERAGE) | CRUDE CASE RATE | 95% CONFIDENCE LIMITS | |
|--|---------------------|---------------------------------------|---------------------------|-----------------|-----------------------|--------------|
| | | | | | LOWER | UPPER |
| 1 | ALPINE | 175 | 0.0 | - | - | - |
| 2 | TRINITY | 2,150 | 0.3 | 15.5 * | 0.0 | 202.7 |
| 3 | AMADOR | 7,470 | 2.3 | 31.2 * | 4.7 | 103.7 |
| 4 | LASSEN | 12,428 | 4.3 | 34.9 * | 10.2 | 86.3 |
| 5 | DEL NORTE | 7,257 | 2.7 | 36.7 * | 6.6 | 113.9 |
| 6 | GLENN | 5,604 | 2.3 | 41.6 * | 6.3 | 138.3 |
| 7 | NEVADA | 16,097 | 8.0 | 49.7 * | 21.5 | 97.9 |
| 8 | PLUMAS | 2,948 | 1.7 | 56.5 * | 5.0 | 226.9 |
| 9 | MENDOCINO | 16,599 | 9.7 | 58.2 * | 27.5 | 108.2 |
| 10 | MODOC | 1,714 | 1.0 | 58.3 * | 1.5 | 325.1 |
| 11 | COLUSA | 4,557 | 2.7 | 58.5 * | 10.5 | 181.3 |
| 12 | EL DORADO | 31,527 | 19.0 | 60.3 * | 36.3 | 94.1 |
| 13 | IMPERIAL | 41,628 | 26.0 | 62.5 | 40.8 | 91.5 |
| 14 | NAPA | 28,104 | 18.7 | 66.4 * | 39.8 | 104.1 |
| 15 | MONO | 3,374 | 2.3 | 69.2 * | 10.5 | 229.6 |
| 16 | MARIPOSA | 2,829 | 2.0 | 70.7 * | 8.6 | 255.4 |
| 17 | SANTA BARBARA | 99,174 | 77.0 | 77.6 | 61.3 | 97.0 |
| 18 | TUOLUMNE | 11,007 | 8.7 | 78.7 * | 35.4 | 151.2 |
| 19 | PLACER | 66,846 | 52.7 | 78.8 | 59.0 | 103.1 |
| 20 | INYO | 3,249 | 2.7 | 82.1 * | 14.8 | 254.3 |
| 21 | SAN LUIS OBISPO | 60,144 | 55.0 | 91.4 | 68.9 | 119.0 |
| 22 | CALAVERAS | 6,831 | 6.3 | 92.7 * | 35.2 | 197.9 |
| 23 | MARIN | 42,975 | 40.7 | 94.6 | 67.8 | 128.5 |
| 24 | SAN BENITO | 11,732 | 11.3 | 96.6 * | 48.8 | 171.4 |
| 25 | SONOMA | 97,191 | 96.7 | 99.5 | 80.6 | 121.4 |
| 26 | VENTURA | 173,352 | 178.0 | 102.7 | 87.6 | 117.8 |
| 27 | KINGS | 43,248 | 45.0 | 104.1 | 75.9 | 139.2 |
| 28 | MERCED | 59,270 | 68.7 | 115.9 | 90.1 | 146.7 |
| 29 | SANTA CRUZ | 58,153 | 70.0 | 120.4 | 93.8 | 152.1 |
| 30 | SUTTER | 20,056 | 24.7 | 123.0 | 79.3 | 182.0 |
| 31 | ORANGE | 657,882 | 863.7 | 131.3 | 122.5 | 140.0 |
| 32 | SAN MATEO | 146,207 | 192.7 | 131.8 | 113.2 | 150.4 |
| 33 | RIVERSIDE | 478,063 | 661.7 | 138.4 | 127.9 | 149.0 |
| 34 | LAKE | 11,070 | 15.3 | 138.5 * | 78.1 | 227.2 |
| 35 | MONTEREY | 99,774 | 141.0 | 141.3 | 118.0 | 164.6 |
| 36 | SISKIYOU | 7,287 | 10.3 | 141.8 * | 69.0 | 258.3 |
| 37 | TULARE | 99,255 | 142.0 | 143.1 | 119.5 | 166.6 |
| 38 | YUBA | 15,372 | 22.0 | 143.1 | 89.7 | 216.7 |
| 39 | YOLO | 49,319 | 74.7 | 151.4 | 119.0 | 189.9 |
| 40 | BUTTE | 47,348 | 74.3 | 157.0 | 123.3 | 197.0 |
| 41 | SANTA CLARA | 398,076 | 652.0 | 163.8 | 151.2 | 176.4 |
| 42 | MADERA | 30,907 | 55.3 | 179.0 | 135.0 | 232.9 |
| 43 | CONTRA COSTA | 208,918 | 393.7 | 188.4 | 169.8 | 207.0 |
| 44 | HUMBOLDT | 30,127 | 58.0 | 192.5 | 146.2 | 248.9 |
| HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: STD-6.2 | | | | 194.8 | | |
| 45 | SAN BERNARDINO | 459,319 | 969.3 | 211.0 | 197.8 | 224.3 |
| 46 | TEHAMA | 11,907 | 25.7 | 215.6 | 140.4 | 316.6 |
| 47 | SOLANO | 87,235 | 194.3 | 222.8 | 191.4 | 254.1 |
| 48 | SIERRA | 445 | 1.0 | 224.7 * | 5.7 | 1,252.1 |
| 49 | SAN DIEGO | 732,151 | 1,657.3 | 226.4 | 215.5 | 237.3 |
| 50 | STANISLAUS | 112,319 | 262.7 | 233.9 | 205.6 | 262.1 |
| CALIFORNIA | | 8,285,628 | 21,180.3 | 255.6 | 252.2 | 259.1 |
| 51 | SAN JOAQUIN | 150,286 | 392.7 | 261.3 | 235.4 | 287.1 |
| 52 | ALAMEDA | 332,732 | 989.7 | 297.4 | 278.9 | 316.0 |
| 53 | FRESNO | 211,138 | 637.0 | 301.7 | 278.3 | 325.1 |
| 54 | SACRAMENTO | 305,631 | 949.7 | 310.7 | 291.0 | 330.5 |
| 55 | LOS ANGELES | 2,224,018 | 8,050.0 | 362.0 | 354.1 | 369.9 |
| 56 | KERN | 205,664 | 749.7 | 364.5 | 338.4 | 390.6 |
| 57 | SHASTA | 32,360 | 119.0 | 367.7 | 301.7 | 433.8 |
| 58 | SAN FRANCISCO | 203,129 | 1,985.3 | 977.4 | 934.4 | 1,020.4 |

* Rates are deemed unreliable based on fewer than 20 data elements.

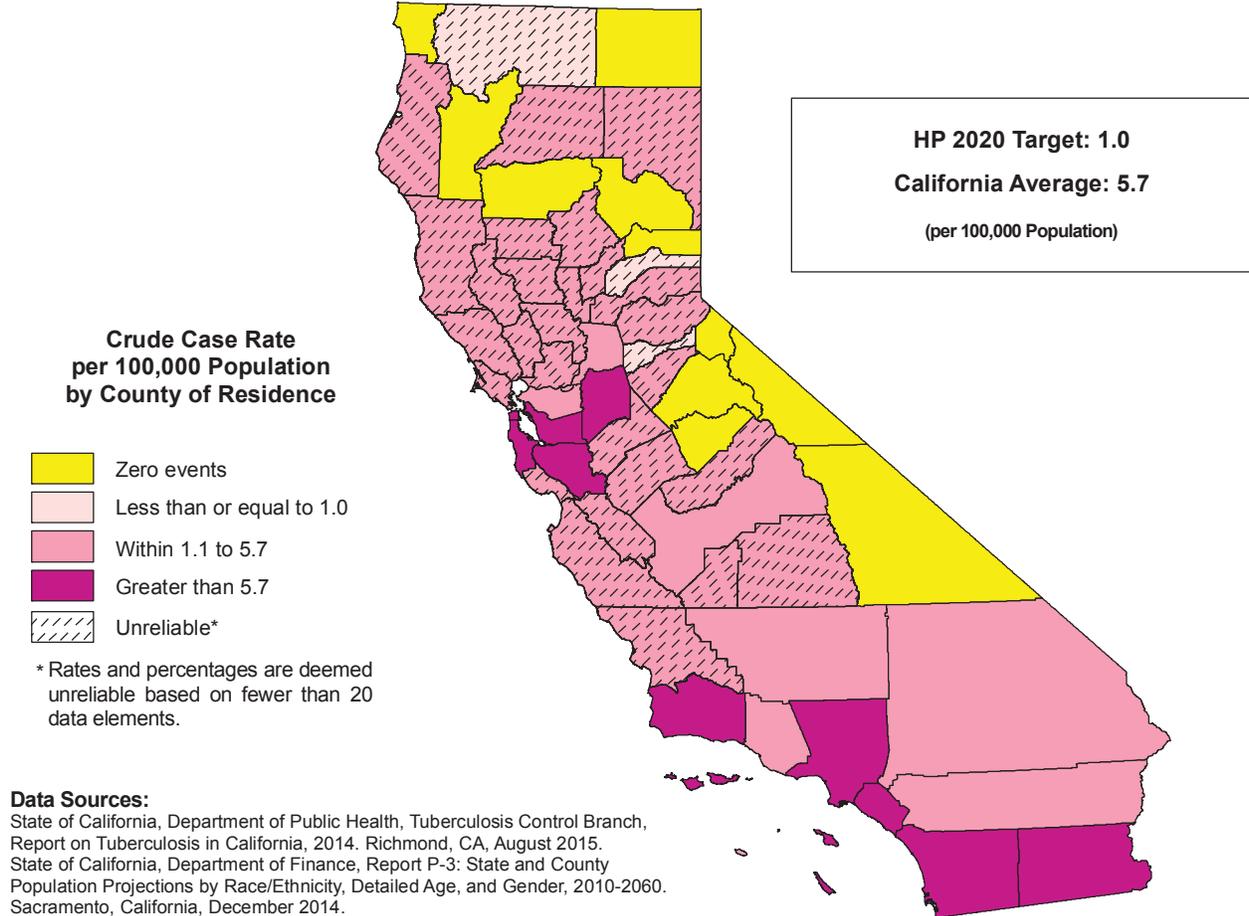
- Rates, percentages, and confidence limits are not calculated for zero events.

Note: Counties were rank ordered first by increasing crude case rate (calculated to 15 decimal places), second by decreasing population count.

Sources: State of California, Department of Public Health, STD Control Branch, Data Request, September 2015.

State of California, Department of Finance, Report P-3: State and County Population Projections by Race/Ethnicity, Detailed Age, and Gender, 2010-2060. Sacramento, California, December 2014.

REPORTED INCIDENCE OF TUBERCULOSIS, 2012-2014



The crude case rate of reported incidence of tuberculosis for California was 5.7 cases per 100,000 population, or approximately one reported incidence of tuberculosis for every 17,629.1 persons. The crude case rate for California was based on a 2012 through 2014 three-year average number of reported incidence of tuberculosis cases equaling 2,167.0 and a population count of 38,202,206 as of July 1, 2013. Among counties with reliable rates, the crude case rate of reported incidence of tuberculosis ranged from 19.5 in Imperial County to 2.6 in Riverside County, a factor of 7.5 to 1.

No counties with reliable crude case rates met the Healthy People 2020 National Objective IID-29 of no more than 1.0 new reported incidence of tuberculosis case per 100,000 population. Three counties with unreliable rates and eleven counties with no reported incidence of tuberculosis cases met the objective. The statewide crude case rate for reported incidence of tuberculosis did not meet the national objective.

The California crude case rate of reported incidence of tuberculosis for the 2009-2011 period was 6.4 per 100,000 population.

**TABLE 23
REPORTED INCIDENCE OF TUBERCULOSIS
RANKED BY THREE-YEAR AVERAGE CRUDE CASE RATE
CALIFORNIA COUNTIES, 2012-2014**

| RANK ORDER | COUNTY OF RESIDENCE | 2013 POPULATION | 2012-2014 CASES (AVERAGE) | CRUDE CASE RATE | 95% CONFIDENCE LIMITS | |
|---|---------------------|-------------------|---------------------------|-----------------|-----------------------|------------|
| | | | | | LOWER | UPPER |
| 1 | TEHAMA | 64,498 | 0.0 | - | - | - |
| 2 | TUOLUMNE | 54,811 | 0.0 | - | - | - |
| 3 | DEL NORTE | 28,530 | 0.0 | - | - | - |
| 4 | PLUMAS | 19,466 | 0.0 | - | - | - |
| 5 | INYO | 19,241 | 0.0 | - | - | - |
| 6 | MARIPOSA | 18,101 | 0.0 | - | - | - |
| 7 | MONO | 14,376 | 0.0 | - | - | - |
| 8 | TRINITY | 13,776 | 0.0 | - | - | - |
| 9 | MODOC | 9,457 | 0.0 | - | - | - |
| 10 | SIERRA | 3,270 | 0.0 | - | - | - |
| 11 | ALPINE | 1,228 | 0.0 | - | - | - |
| 12 | NEVADA | 98,317 | 0.3 | 0.3* | 0.0 | 4.4 |
| 13 | SISKIYOU | 45,215 | 0.3 | 0.7* | 0.0 | 9.6 |
| 14 | AMADOR | 36,945 | 0.3 | 0.9* | 0.0 | 11.8 |
| HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: IID-29 | | | | 1.0 | | |
| 15 | SAN LUIS OBISPO | 271,740 | 3.3 | 1.2* | 0.3 | 3.4 |
| 16 | SHASTA | 178,591 | 2.3 | 1.3* | 0.2 | 4.3 |
| 17 | EL DORADO | 184,054 | 2.7 | 1.4* | 0.3 | 4.5 |
| 18 | PLACER | 365,125 | 5.3 | 1.5* | 0.5 | 3.3 |
| 19 | CALAVERAS | 45,214 | 0.7 | 1.5* | 0.0 | 11.0 |
| 20 | MENDOCINO | 88,931 | 1.3 | 1.5* | 0.1 | 6.9 |
| 21 | SAN BENITO | 57,366 | 1.0 | 1.7* | 0.0 | 9.7 |
| 22 | STANISLAUS | 527,232 | 10.0 | 1.9* | 0.9 | 3.5 |
| 23 | LASSEN | 34,966 | 0.7 | 1.9* | 0.0 | 14.2 |
| 24 | LAKE | 64,782 | 1.3 | 2.1* | 0.1 | 9.5 |
| 25 | SANTA CRUZ | 271,495 | 5.7 | 2.1* | 0.7 | 4.6 |
| 26 | BUTTE | 222,035 | 4.7 | 2.1* | 0.6 | 5.0 |
| 27 | NAPA | 139,831 | 3.0 | 2.1* | 0.4 | 6.3 |
| 28 | HUMBOLDT | 136,480 | 3.0 | 2.2* | 0.5 | 6.4 |
| 29 | SONOMA | 493,070 | 11.7 | 2.4* | 1.2 | 4.2 |
| 30 | RIVERSIDE | 2,264,173 | 58.7 | 2.6 | 2.0 | 3.3 |
| 31 | SAN BERNARDINO | 2,075,160 | 55.7 | 2.7 | 2.0 | 3.5 |
| 32 | YOLO | 206,621 | 5.7 | 2.7* | 1.0 | 6.1 |
| 33 | COLUSA | 21,987 | 0.7 | 3.0* | 0.0 | 22.7 |
| 34 | KINGS | 152,456 | 4.7 | 3.1* | 0.9 | 7.3 |
| 35 | TULARE | 456,075 | 15.0 | 3.3* | 1.8 | 5.4 |
| 36 | SUTTER | 97,386 | 3.7 | 3.8* | 0.9 | 10.0 |
| 37 | KERN | 869,797 | 34.0 | 3.9 | 2.7 | 5.5 |
| 38 | YUBA | 73,600 | 3.0 | 4.1* | 0.8 | 11.9 |
| 39 | MONTEREY | 424,119 | 17.3 | 4.1* | 2.4 | 6.5 |
| 40 | SOLANO | 424,048 | 17.7 | 4.2* | 2.5 | 6.6 |
| 41 | FRESNO | 958,260 | 41.0 | 4.3 | 3.1 | 5.8 |
| 42 | VENTURA | 839,617 | 37.7 | 4.5 | 3.2 | 6.2 |
| 43 | GLENN | 28,599 | 1.3 | 4.7* | 0.3 | 21.5 |
| 44 | MERCED | 263,441 | 12.3 | 4.7* | 2.4 | 8.1 |
| 45 | MARIN | 256,264 | 12.3 | 4.8* | 2.5 | 8.3 |
| 46 | CONTRA COSTA | 1,081,862 | 53.3 | 4.9 | 3.7 | 6.4 |
| 47 | SACRAMENTO | 1,448,268 | 72.7 | 5.0 | 3.9 | 6.3 |
| 48 | MADERA | 153,409 | 8.0 | 5.2* | 2.3 | 10.3 |
| CALIFORNIA | | 38,202,206 | 2,167.0 | 5.7 | 5.4 | 5.9 |
| 49 | SANTA BARBARA | 433,157 | 26.3 | 6.1 | 4.0 | 8.9 |
| 50 | ORANGE | 3,097,966 | 188.7 | 6.1 | 5.2 | 7.0 |
| 51 | LOS ANGELES | 10,010,961 | 665.7 | 6.6 | 6.1 | 7.2 |
| 52 | SAN JOAQUIN | 703,790 | 47.0 | 6.7 | 4.9 | 8.9 |
| 53 | SAN DIEGO | 3,184,072 | 220.0 | 6.9 | 6.0 | 7.8 |
| 54 | ALAMEDA | 1,563,370 | 124.7 | 8.0 | 6.6 | 9.4 |
| 55 | SAN MATEO | 741,857 | 62.0 | 8.4 | 6.4 | 10.7 |
| 56 | SANTA CLARA | 1,850,595 | 173.0 | 9.3 | 8.0 | 10.7 |
| 57 | SAN FRANCISCO | 833,827 | 112.3 | 13.5 | 11.0 | 16.0 |
| 58 | IMPERIAL | 179,326 | 35.0 | 19.5 | 13.6 | 27.1 |

* Rates are deemed unreliable based on fewer than 20 data elements.

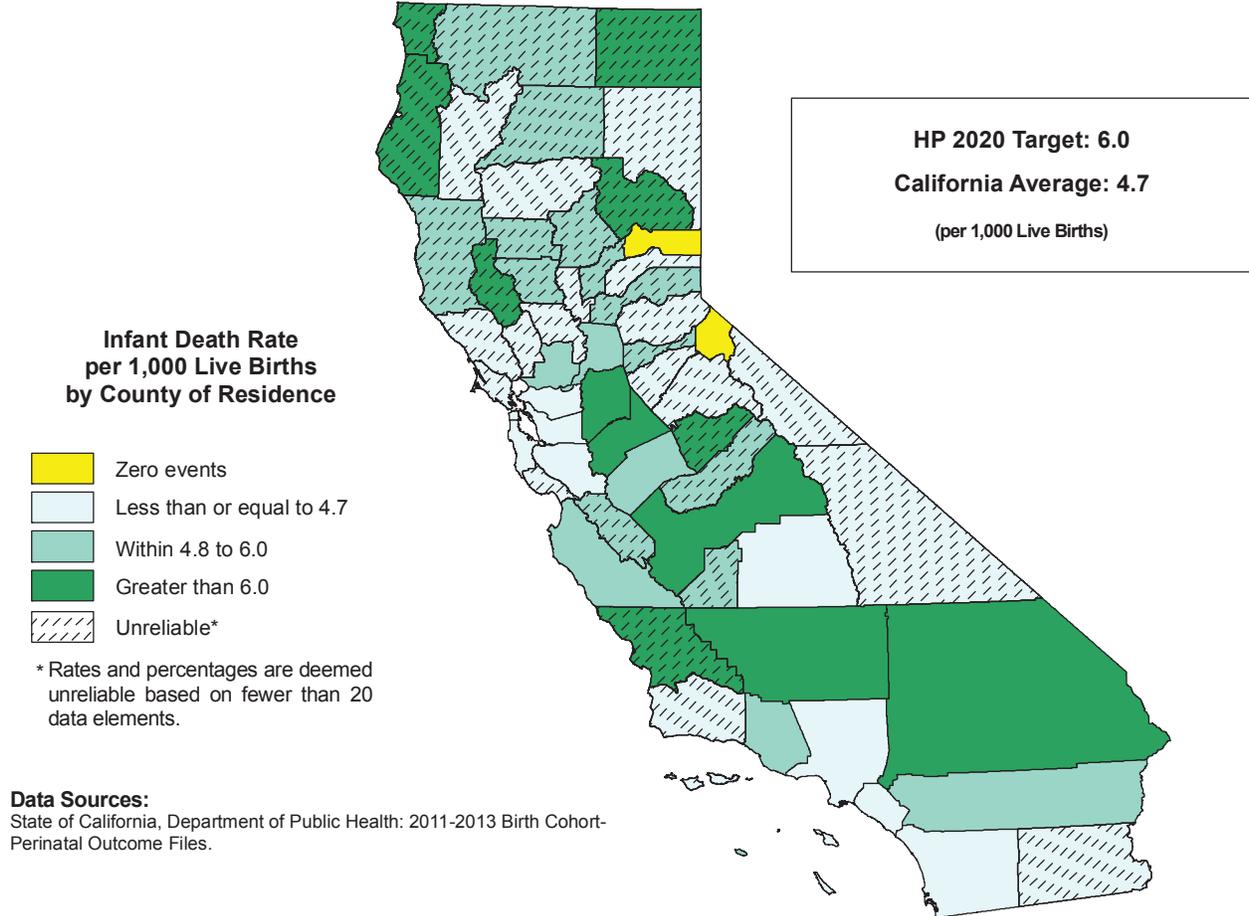
- Rates, percentages, and confidence limits are not calculated for zero events.

Note: Counties were rank ordered first by increasing crude case rate (calculated to 15 decimal places), second by decreasing population count.

Sources: State of California, Department of Public Health, Tuberculosis Control Branch, Report on Tuberculosis in California, 2014. Richmond, CA, August 2015.

State of California, Department of Finance, Report P-3: State and County Population Projections by Race/Ethnicity, Detailed Age, and Gender, 2010-2060. Sacramento, California, December 2014.

INFANT MORTALITY - ALL RACE/ETHNIC GROUPS, 2011-2013



The California birth cohort infant death rate for all race/ethnic groups was 4.7 deaths per 1,000 live births, a risk of dying equivalent to approximately one infant death for every 211.4 live births in the infant group. This rate was based on 2011 through 2013 three-year average numbers for all race/ethnic groups infant deaths equaling 2,365.7 and live births equaling 500,207.

Among counties with reliable rates, the birth cohort infant death rate for all race/ethnic groups ranged from 7.6 in Fresno County to 2.3 in San Mateo County, a factor of 3.3 to 1.

Fifteen counties with reliable birth cohort infant death rates and California as a whole met the Healthy People 2020 National Objective MICH-1.3 of no more than 6.0 infant deaths per 1,000 live births. An additional twenty-nine counties with unreliable rates and two counties with no infant deaths met the objective.

The California birth cohort infant death rate for all race/ethnic groups for the 2008-2010 period was 5.0 per 1,000 live births.

**TABLE 24A
 INFANT MORTALITY - ALL RACE/ETHNIC GROUPS
 RANKED BY THREE-YEAR AVERAGE BIRTH COHORT INFANT DEATH RATE
 CALIFORNIA COUNTIES, 2011-2013**

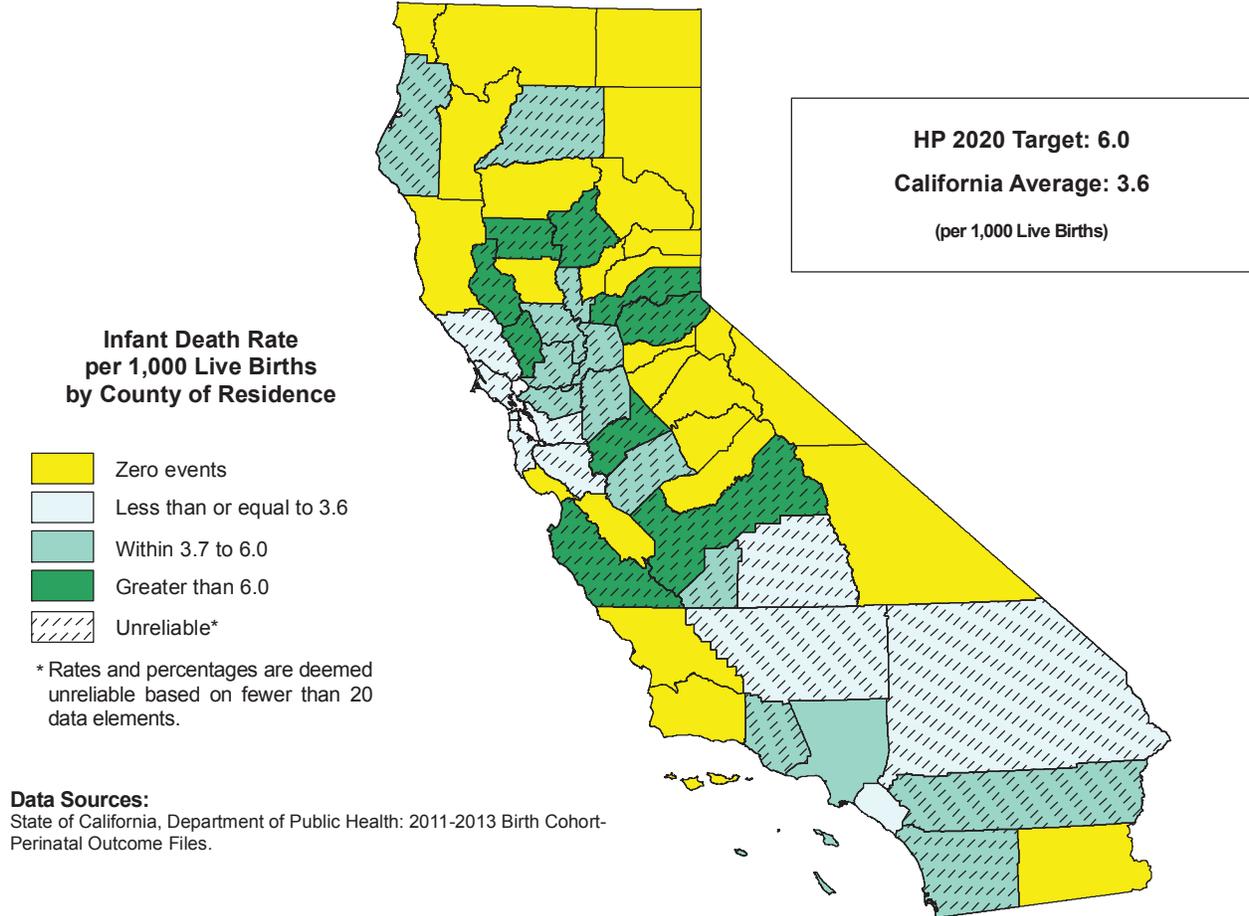
| RANK ORDER | COUNTY OF RESIDENCE | THREE-YEAR AVERAGE | | BIRTH COHORT INFANT DEATH RATE | 95% CONFIDENCE LIMITS | |
|------------|---|--------------------|----------------|--------------------------------|-----------------------|------------|
| | | LIVE BIRTHS | INFANT DEATHS | | LOWER | UPPER |
| 1 | SIERRA | 18.7 | 0.0 | - | - | - |
| 2 | ALPINE | 6.3 | 0.0 | - | - | - |
| 3 | LASSEN | 297.3 | 0.7 | 2.2 * | 0.0 | 16.8 |
| 4 | SAN MATEO | 9,017.7 | 20.7 | 2.3 | 1.4 | 3.5 |
| 5 | EL DORADO | 1,558.7 | 4.0 | 2.6 * | 0.7 | 6.6 |
| 6 | TRINITY | 116.3 | 0.3 | 2.9 * | 0.0 | 37.5 |
| 7 | CALAVERAS | 336.7 | 1.0 | 3.0 * | 0.1 | 16.5 |
| 8 | INYO | 220.7 | 0.7 | 3.0 * | 0.0 | 22.6 |
| 9 | IMPERIAL | 3,061.7 | 9.7 | 3.2 * | 1.5 | 5.9 |
| 10 | SAN FRANCISCO | 8,898.7 | 29.3 | 3.3 | 2.2 | 4.7 |
| 11 | SANTA CLARA | 23,753.7 | 78.7 | 3.3 | 2.6 | 4.1 |
| 12 | SANTA BARBARA | 5,715.3 | 19.3 | 3.4 * | 2.0 | 5.3 |
| 13 | SONOMA | 5,094.3 | 18.3 | 3.6 * | 2.1 | 5.7 |
| 14 | ORANGE | 37,855.0 | 138.0 | 3.6 | 3.0 | 4.3 |
| 15 | YOLO | 2,428.7 | 9.0 | 3.7 * | 1.7 | 7.0 |
| 16 | MARIN | 2,338.0 | 8.7 | 3.7 * | 1.7 | 7.1 |
| 17 | NAPA | 1,484.0 | 5.7 | 3.8 * | 1.4 | 8.5 |
| 18 | ALAMEDA | 19,268.3 | 80.7 | 4.2 | 3.3 | 5.2 |
| 19 | SAN DIEGO | 43,891.3 | 186.3 | 4.2 | 3.6 | 4.9 |
| 20 | TUOLUMNE | 455.0 | 2.0 | 4.4 * | 0.5 | 15.9 |
| 21 | TEHAMA | 749.3 | 3.3 | 4.4 * | 1.0 | 12.4 |
| 22 | LOS ANGELES | 130,235.7 | 594.7 | 4.6 | 4.2 | 4.9 |
| 23 | SANTA CRUZ | 3,061.0 | 14.0 | 4.6 * | 2.5 | 7.7 |
| 24 | MONO | 145.7 | 0.7 | 4.6 * | 0.0 | 34.2 |
| 25 | NEVADA | 795.7 | 3.7 | 4.6 * | 1.2 | 12.3 |
| 26 | SUTTER | 1,290.0 | 6.0 | 4.7 * | 1.7 | 10.1 |
| 27 | CONTRA COSTA | 12,091.0 | 57.3 | 4.7 | 3.6 | 6.1 |
| 28 | TULARE | 7,873.0 | 37.3 | 4.7 | 3.3 | 6.5 |
| | CALIFORNIA | 500,207.0 | 2,365.7 | 4.7 | 4.5 | 4.9 |
| 29 | MONTEREY | 6,672.0 | 32.0 | 4.8 | 3.3 | 6.8 |
| 30 | RIVERSIDE | 30,295.0 | 147.0 | 4.9 | 4.1 | 5.6 |
| 31 | AMADOR | 272.0 | 1.3 | 4.9 * | 0.3 | 22.6 |
| 32 | PLACER | 3,723.3 | 18.3 | 4.9 * | 2.9 | 7.8 |
| 33 | SISKIYOU | 472.7 | 2.3 | 4.9 * | 0.7 | 16.4 |
| 34 | MENDOCINO | 1,079.7 | 5.3 | 4.9 * | 1.7 | 11.2 |
| 35 | SAN BENITO | 741.7 | 3.7 | 4.9 * | 1.2 | 13.2 |
| 36 | SOLANO | 5,158.3 | 25.7 | 5.0 | 3.2 | 7.3 |
| 37 | VENTURA | 10,579.7 | 52.7 | 5.0 | 3.7 | 6.5 |
| 38 | MERCED | 4,251.0 | 21.3 | 5.0 | 3.1 | 7.6 |
| 39 | GLENN | 386.0 | 2.0 | 5.2 * | 0.6 | 18.7 |
| 40 | SACRAMENTO | 19,665.7 | 102.7 | 5.2 | 4.2 | 6.2 |
| 41 | COLUSA | 309.7 | 1.7 | 5.4 * | 0.5 | 21.6 |
| 42 | BUTTE | 2,402.0 | 13.3 | 5.6 * | 3.0 | 9.4 |
| 43 | KINGS | 2,438.7 | 14.3 | 5.9 * | 3.2 | 9.8 |
| 44 | MADERA | 2,325.0 | 13.7 | 5.9 * | 3.2 | 9.9 |
| 45 | SHASTA | 2,092.3 | 12.3 | 5.9 * | 3.1 | 10.2 |
| 46 | YUBA | 1,231.7 | 7.3 | 6.0 * | 2.5 | 12.1 |
| | HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: MICH-1.3 | | | 6.0 | | |
| 47 | SAN LUIS OBISPO | 2,621.0 | 16.0 | 6.1 * | 3.5 | 9.9 |
| 48 | SAN BERNARDINO | 30,495.3 | 190.7 | 6.3 | 5.4 | 7.1 |
| 49 | SAN JOAQUIN | 10,086.0 | 63.3 | 6.3 | 4.8 | 8.0 |
| 50 | STANISLAUS | 7,638.0 | 49.0 | 6.4 | 4.7 | 8.5 |
| 51 | HUMBOLDT | 1,498.7 | 9.7 | 6.5 * | 3.0 | 12.0 |
| 52 | KERN | 14,332.0 | 96.3 | 6.7 | 5.4 | 8.2 |
| 53 | MARIPOSA | 142.3 | 1.0 | 7.0 * | 0.2 | 39.1 |
| 54 | DEL NORTE | 318.0 | 2.3 | 7.3 * | 1.1 | 24.4 |
| 55 | FRESNO | 15,950.3 | 122.0 | 7.6 | 6.3 | 9.0 |
| 56 | PLUMAS | 156.0 | 1.3 | 8.5 * | 0.5 | 39.4 |
| 57 | LAKE | 740.0 | 6.3 | 8.6 * | 3.2 | 18.3 |
| 58 | MODOC | 75.3 | 0.7 | 8.8 * | 0.0 | 66.1 |

* Rates are deemed unreliable based on fewer than 20 data elements.
 - Rates, percentages, and confidence limits are not calculated for zero events.

Note: Counties were rank ordered first by increasing birth cohort infant death rate (calculated to 15 decimal places), second by decreasing number of live births.

Source: State of California, Department of Public Health: 2011-2013 Birth Cohort-Perinatal Outcome Files.

ASIAN/PACIFIC ISLANDER INFANT MORTALITY, 2011-2013



The California birth cohort infant death rate for Asian/Pacific Islanders was 3.6 deaths per 1,000 live births, a risk of dying equivalent to approximately one infant death for every 280.5 live births in the infant group. This rate was based on 2011 through 2013 three-year average numbers for Asian/Pacific Islanders' infant deaths equaling 243.3 and live births equaling 68,259.3.

Among counties with reliable rates, the birth cohort infant death rate for Asian/Pacific Islanders ranged from 3.7 in Los Angeles County to 3.2 in Orange County, a factor of 1.2 to 1.

Two counties with reliable birth cohort infant death rates and California as a whole met the Healthy People 2020 National Objective MICH-1.3 of no more than 6.0 infant deaths per 1,000 live births. An additional twenty-two counties with unreliable rates and twenty-five counties with no infant deaths met the objective.

The California birth cohort infant death rate for Asian/Pacific Islanders for the 2008-2010 period was 4.0 per 1,000 live births.

**TABLE 24B
ASIAN/PACIFIC ISLANDER INFANT MORTALITY
RANKED BY THREE-YEAR AVERAGE BIRTH COHORT INFANT DEATH RATE
CALIFORNIA COUNTIES, 2011-2013**

| RANK ORDER | COUNTY OF RESIDENCE | THREE-YEAR AVERAGE | | BIRTH COHORT INFANT DEATH RATE | 95% CONFIDENCE LIMITS | |
|------------|---|--------------------|---------------|--------------------------------|-----------------------|------------|
| | | LIVE BIRTHS | INFANT DEATHS | | LOWER | UPPER |
| 1 | SANTA BARBARA | 219.3 | 0.0 | - | - | - |
| 2 | YUBA | 105.0 | 0.0 | - | - | - |
| 3 | SANTA CRUZ | 98.3 | 0.0 | - | - | - |
| 4 | SAN LUIS OBISPO | 81.3 | 0.0 | - | - | - |
| 5 | MADERA | 36.3 | 0.0 | - | - | - |
| 6 | IMPERIAL | 28.7 | 0.0 | - | - | - |
| 7 | DEL NORTE | 19.0 | 0.0 | - | - | - |
| 8 | MENDOCINO | 18.0 | 0.0 | - | - | - |
| 9 | SAN BENITO | 16.3 | 0.0 | - | - | - |
| 10 | NEVADA | 13.7 | 0.0 | - | - | - |
| 11 | SISKIYOU | 10.3 | 0.0 | - | - | - |
| 12 | LASSEN | 8.3 | 0.0 | - | - | - |
| 13 | TEHAMA | 8.3 | 0.0 | - | - | - |
| 14 | TUOLUMNE | 6.7 | 0.0 | - | - | - |
| 15 | CALAVERAS | 5.3 | 0.0 | - | - | - |
| 16 | AMADOR | 5.0 | 0.0 | - | - | - |
| 17 | MONO | 4.0 | 0.0 | - | - | - |
| 18 | INYO | 2.3 | 0.0 | - | - | - |
| 19 | PLUMAS | 2.3 | 0.0 | - | - | - |
| 20 | COLUSA | 2.0 | 0.0 | - | - | - |
| 21 | MARIPOSA | 1.7 | 0.0 | - | - | - |
| 22 | MODOC | 1.7 | 0.0 | - | - | - |
| 23 | TRINITY | 1.3 | 0.0 | - | - | - |
| 24 | SIERRA | 0.3 | 0.0 | - | - | - |
| 25 | ALPINE | 0.0 | 0.0 | - | - | - |
| 26 | SONOMA | 231.7 | 0.3 | 1.4 * | 0.0 | 18.8 |
| 27 | MARIN | 196.7 | 0.3 | 1.7 * | 0.0 | 22.2 |
| 28 | SAN MATEO | 2,594.7 | 5.3 | 2.1 * | 0.7 | 4.7 |
| 29 | SANTA CLARA | 8,554.0 | 18.3 | 2.1 * | 1.3 | 3.4 |
| 30 | SAN FRANCISCO | 2,810.0 | 7.3 | 2.6 * | 1.1 | 5.3 |
| 31 | TULARE | 239.3 | 0.7 | 2.8 * | 0.0 | 20.8 |
| 32 | KERN | 525.7 | 1.7 | 3.2 * | 0.3 | 12.7 |
| 33 | ORANGE | 7,228.0 | 23.3 | 3.2 | 2.1 | 4.8 |
| 34 | ALAMEDA | 5,713.3 | 18.7 | 3.3 * | 2.0 | 5.1 |
| 35 | SAN BERNARDINO | 1,898.7 | 6.7 | 3.5 * | 1.4 | 7.4 |
| | CALIFORNIA | 68,259.3 | 243.3 | 3.6 | 3.1 | 4.0 |
| 36 | LOS ANGELES | 18,416.0 | 68.0 | 3.7 | 2.9 | 4.7 |
| 37 | VENTURA | 712.7 | 2.7 | 3.7 * | 0.7 | 11.6 |
| 38 | SAN DIEGO | 4,840.0 | 18.3 | 3.8 * | 2.3 | 6.0 |
| 39 | CONTRA COSTA | 1,928.3 | 8.0 | 4.1 * | 1.8 | 8.2 |
| 40 | RIVERSIDE | 1,740.0 | 7.3 | 4.2 * | 1.7 | 8.5 |
| 41 | KINGS | 76.7 | 0.3 | 4.3 * | 0.0 | 56.8 |
| 42 | SACRAMENTO | 3,479.7 | 15.3 | 4.4 * | 2.5 | 7.2 |
| 43 | SHASTA | 71.7 | 0.3 | 4.7 * | 0.0 | 60.8 |
| 44 | SOLANO | 705.7 | 3.3 | 4.7 * | 1.1 | 13.1 |
| 45 | YOLO | 279.3 | 1.3 | 4.8 * | 0.3 | 22.0 |
| 46 | SUTTER | 198.3 | 1.0 | 5.0 * | 0.1 | 28.1 |
| 47 | SAN JOAQUIN | 1,564.7 | 8.3 | 5.3 * | 2.3 | 10.4 |
| 48 | MERCED | 347.7 | 2.0 | 5.8 * | 0.7 | 20.8 |
| 49 | HUMBOLDT | 57.7 | 0.3 | 5.8 * | 0.0 | 75.6 |
| | HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: MICH-1.3 | | | 6.0 | | |
| 50 | FRESNO | 1,790.7 | 11.7 | 6.5 * | 3.3 | 11.5 |
| 51 | NAPA | 96.3 | 0.7 | 6.9 * | 0.0 | 51.7 |
| 52 | MONTEREY | 263.7 | 2.0 | 7.6 * | 0.9 | 27.4 |
| 53 | BUTTE | 175.3 | 1.3 | 7.6 * | 0.4 | 35.0 |
| 54 | STANISLAUS | 444.0 | 3.7 | 8.3 * | 2.1 | 22.0 |
| 55 | EL DORADO | 67.3 | 0.7 | 9.9 * | 0.1 | 74.0 |
| 56 | PLACER | 298.3 | 3.3 | 11.2 * | 2.6 | 31.1 |
| 57 | LAKE | 9.0 | 0.3 | 37.0 * | 0.0 | 484.3 |
| 58 | GLENN | 8.7 | 0.3 | 38.5 * | 0.0 | 502.9 |

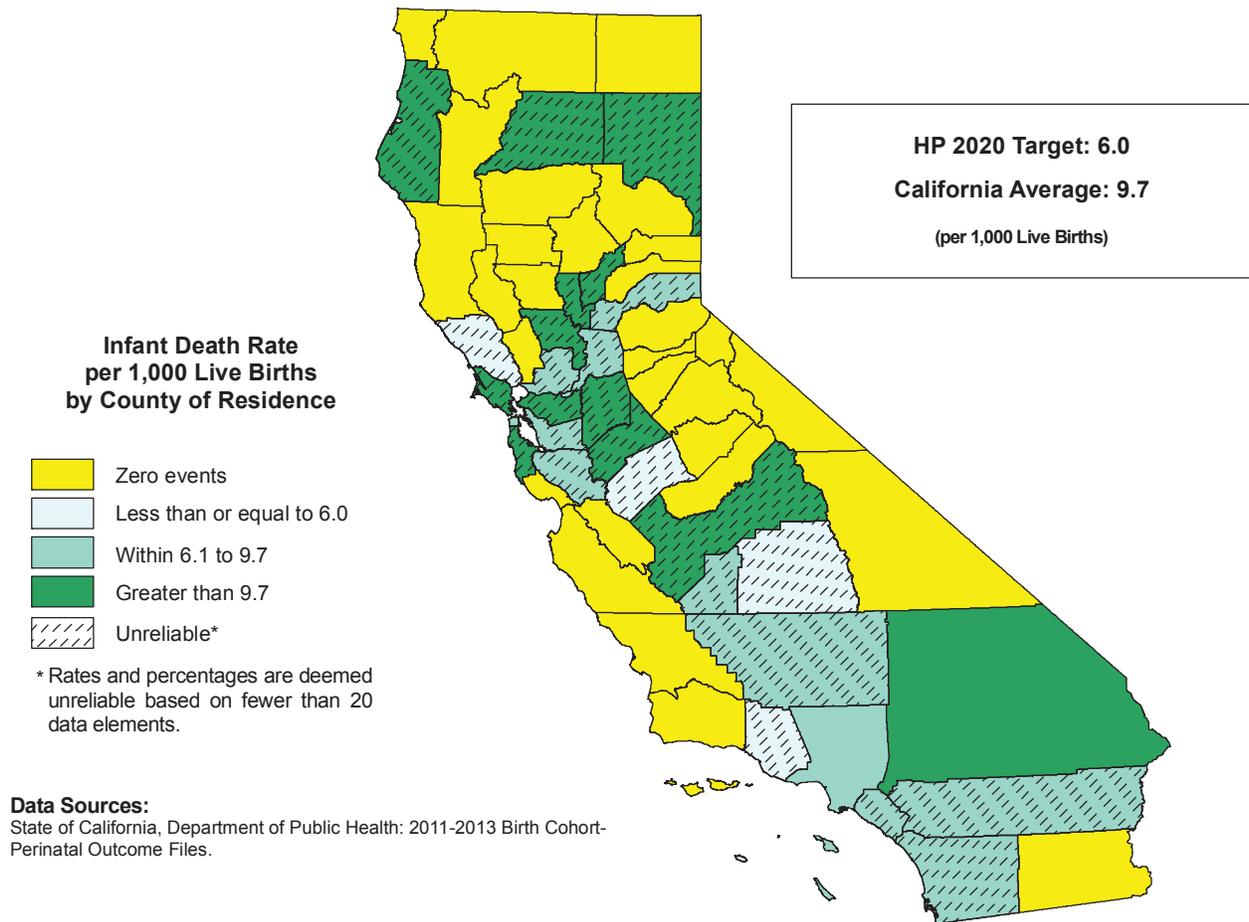
* Rates are deemed unreliable based on fewer than 20 data elements.

- Rates, percentages, and confidence limits are not calculated for zero events.

Note: Counties were rank ordered first by increasing birth cohort infant death rate (calculated to 15 decimal places), second by decreasing number of live births.

Source: State of California, Department of Public Health: 2011-2013 Birth Cohort-Perinatal Outcome Files.

BLACK INFANT MORTALITY, 2011-2013



The California birth cohort infant death rate for Blacks was 9.7 deaths per 1,000 live births, a risk of dying equivalent to approximately one infant death for every 103.5 live births in the infant group. This rate was based on 2011 through 2013 three-year average numbers of Black infant deaths equaling 256 and live births equaling 26,496.

Among counties with reliable rates, the birth cohort infant death rate for Blacks ranged from 11.9 in San Bernardino County to 9.2 in Los Angeles County, a factor of 1.3 to 1.

No counties with reliable birth cohort infant death rates met the Healthy People 2020 National Objective MICH-1.3 of no more than 6.0 infant deaths per 1,000 live births. Four counties with unreliable rates and twenty-nine counties with no infant deaths met the objective. The statewide birth cohort infant death rate for Blacks did not meet the national objective.

The California birth cohort infant death rate for Blacks for the 2008-2010 period was 11.0 per 1,000 live births.

**TABLE 24C
BLACK INFANT MORTALITY
RANKED BY THREE-YEAR AVERAGE BIRTH COHORT INFANT DEATH RATE
CALIFORNIA COUNTIES, 2011-2013**

| RANK ORDER | COUNTY OF RESIDENCE | THREE-YEAR AVERAGE | | BIRTH COHORT INFANT DEATH RATE | 95% CONFIDENCE LIMITS | |
|---|---------------------|--------------------|---------------|--------------------------------|-----------------------|-------------|
| | | LIVE BIRTHS | INFANT DEATHS | | LOWER | UPPER |
| 1 | MONTEREY | 69.7 | 0.0 | - | - | - |
| 2 | SANTA BARBARA | 42.3 | 0.0 | - | - | - |
| 3 | MADERA | 35.7 | 0.0 | - | - | - |
| 4 | BUTTE | 33.0 | 0.0 | - | - | - |
| 5 | IMPERIAL | 25.3 | 0.0 | - | - | - |
| 6 | NAPA | 17.7 | 0.0 | - | - | - |
| 7 | SAN LUIS OBISPO | 14.7 | 0.0 | - | - | - |
| 8 | SANTA CRUZ | 14.3 | 0.0 | - | - | - |
| 9 | LAKE | 13.0 | 0.0 | - | - | - |
| 10 | EL DORADO | 8.0 | 0.0 | - | - | - |
| 11 | SISKIYOU | 5.3 | 0.0 | - | - | - |
| 12 | MENDOCINO | 4.3 | 0.0 | - | - | - |
| 13 | NEVADA | 3.3 | 0.0 | - | - | - |
| 14 | TEHAMA | 3.0 | 0.0 | - | - | - |
| 15 | SAN BENITO | 2.3 | 0.0 | - | - | - |
| 16 | TUOLUMNE | 2.0 | 0.0 | - | - | - |
| 17 | CALAVERAS | 1.7 | 0.0 | - | - | - |
| 18 | AMADOR | 1.0 | 0.0 | - | - | - |
| 19 | COLUSA | 1.0 | 0.0 | - | - | - |
| 20 | GLENN | 1.0 | 0.0 | - | - | - |
| 21 | MARIPOSA | 1.0 | 0.0 | - | - | - |
| 22 | PLUMAS | 1.0 | 0.0 | - | - | - |
| 23 | DEL NORTE | 0.7 | 0.0 | - | - | - |
| 24 | INYO | 0.7 | 0.0 | - | - | - |
| 25 | ALPINE | 0.0 | 0.0 | - | - | - |
| 26 | MODOC | 0.0 | 0.0 | - | - | - |
| 27 | MONO | 0.0 | 0.0 | - | - | - |
| 28 | SIERRA | 0.0 | 0.0 | - | - | - |
| 29 | TRINITY | 0.0 | 0.0 | - | - | - |
| 30 | MERCED | 117.0 | 0.3 | 2.8 * | 0.0 | 37.3 |
| 31 | VENTURA | 115.0 | 0.3 | 2.9 * | 0.0 | 37.9 |
| 32 | TULARE | 81.0 | 0.3 | 4.1 * | 0.0 | 53.8 |
| 33 | SONOMA | 61.7 | 0.3 | 5.4 * | 0.0 | 70.7 |
| HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: MICH-1.3 | | | | 6.0 | | |
| 34 | ORANGE | 447.3 | 3.0 | 6.7 * | 1.4 | 19.6 |
| 35 | SOLANO | 655.7 | 4.7 | 7.1 * | 2.2 | 17.1 |
| 36 | KINGS | 92.0 | 0.7 | 7.2 * | 0.0 | 54.1 |
| 37 | SANTA CLARA | 474.7 | 3.7 | 7.7 * | 1.9 | 20.6 |
| 38 | SAN DIEGO | 1,934.3 | 15.0 | 7.8 * | 4.3 | 12.8 |
| 39 | RIVERSIDE | 1,617.7 | 13.0 | 8.0 * | 4.3 | 13.7 |
| 40 | SAN FRANCISCO | 430.0 | 3.7 | 8.5 * | 2.2 | 22.7 |
| 41 | SACRAMENTO | 2,080.3 | 18.3 | 8.8 * | 5.3 | 13.9 |
| 42 | LOS ANGELES | 9,552.0 | 88.3 | 9.2 | 7.4 | 11.4 |
| 43 | ALAMEDA | 1,972.0 | 18.3 | 9.3 * | 5.5 | 14.6 |
| 44 | PLACER | 35.0 | 0.3 | 9.5 * | 0.0 | 124.5 |
| 45 | KERN | 827.0 | 8.0 | 9.7 * | 4.2 | 19.1 |
| CALIFORNIA | | 26,496.0 | 256.0 | 9.7 | 8.5 | 10.8 |
| 46 | YUBA | 33.3 | 0.3 | 10.0 * | 0.0 | 130.7 |
| 47 | CONTRA COSTA | 1,051.0 | 11.0 | 10.5 * | 5.2 | 18.7 |
| 48 | SAN JOAQUIN | 724.7 | 8.3 | 11.5 * | 5.1 | 22.4 |
| 49 | SAN BERNARDINO | 2,652.3 | 31.7 | 11.9 | 8.1 | 16.9 |
| 50 | SAN MATEO | 101.7 | 1.3 | 13.1 * | 0.7 | 60.4 |
| 51 | SUTTER | 21.3 | 0.3 | 15.6 * | 0.0 | 204.3 |
| 52 | MARIN | 42.0 | 0.7 | 15.9 * | 0.1 | 118.6 |
| 53 | YOLO | 54.7 | 1.0 | 18.3 * | 0.5 | 101.9 |
| 54 | STANISLAUS | 159.7 | 3.3 | 20.9 * | 4.8 | 58.0 |
| 55 | FRESNO | 825.3 | 17.7 | 21.4 * | 12.6 | 34.0 |
| 56 | SHASTA | 19.3 | 1.0 | 51.7 * | 1.3 | 288.2 |
| 57 | HUMBOLDT | 12.7 | 0.7 | 52.6 * | 0.3 | 393.2 |
| 58 | LASSEN | 3.3 | 0.3 | 100.0 * | 0.0 | 1,307.5 |

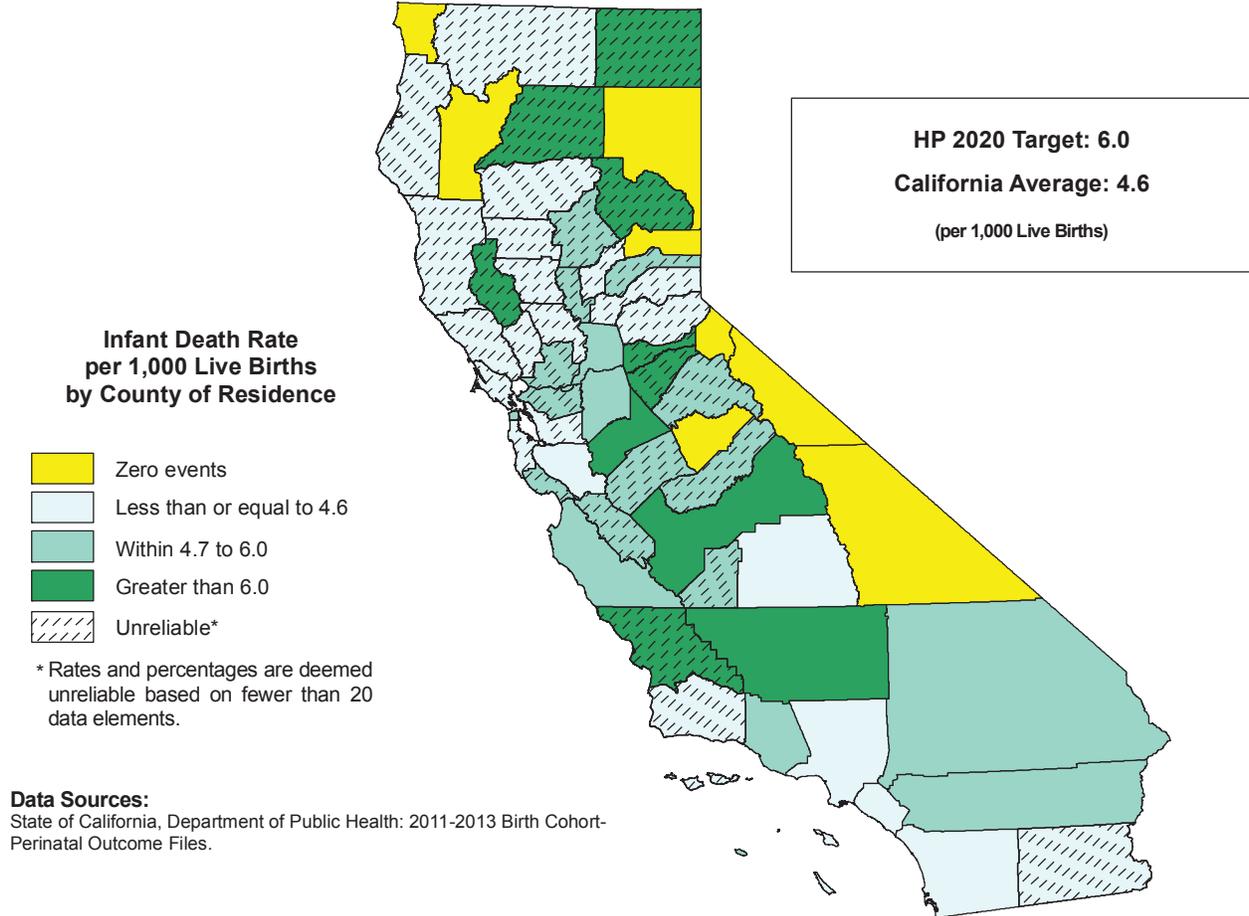
* Rates are deemed unreliable based on fewer than 20 data elements.

- Rates, percentages, and confidence limits are not calculated for zero events.

Note: Counties were rank ordered first by increasing birth cohort infant death rate (calculated to 15 decimal places), second by decreasing number of live births.

Source: State of California, Department of Public Health: 2011-2013 Birth Cohort-Perinatal Outcome Files.

HISPANIC INFANT MORTALITY, 2011-2013



The California birth cohort infant death rate for Hispanics was 4.6 deaths per 1,000 live births, a risk of dying equivalent to approximately one infant death for every 215.3 live births in the infant group. This rate was based on 2011 through 2013 three-year average numbers of Hispanic infant deaths equaling 1,134.3 and live births equaling 244,208.7.

Among counties with reliable rates, the birth cohort infant death rate for Hispanics ranged from 7.0 in Fresno County to 3.5 in San Diego County, a factor of 2.0 to 1.

Eleven counties with reliable birth cohort infant death rates and California as a whole met the Healthy People 2020 National Objective MICH-1.3 of no more than 6.0 infant deaths per 1,000 live births. An additional twenty-nine counties with unreliable rates and eight counties with no infant deaths met the objective.

The California birth cohort infant death rate for Hispanics for the 2008-2010 period was 4.9 per 1,000 live births.

**TABLE 24D
HISPANIC INFANT MORTALITY
RANKED BY THREE-YEAR AVERAGE BIRTH COHORT INFANT DEATH RATE
CALIFORNIA COUNTIES, 2011-2013**

| RANK ORDER | COUNTY OF RESIDENCE | THREE-YEAR AVERAGE | | BIRTH COHORT INFANT DEATH RATE | 95% CONFIDENCE LIMITS | |
|------------|---|--------------------|----------------|--------------------------------|-----------------------|------------|
| | | LIVE BIRTHS | INFANT DEATHS | | LOWER | UPPER |
| 1 | MONO | 67.3 | 0.0 | - | - | - |
| 2 | INYO | 65.0 | 0.0 | - | - | - |
| 3 | DEL NORTE | 59.7 | 0.0 | - | - | - |
| 4 | LASSEN | 37.0 | 0.0 | - | - | - |
| 5 | MARIPOSA | 20.3 | 0.0 | - | - | - |
| 6 | TRINITY | 8.0 | 0.0 | - | - | - |
| 7 | SIERRA | 2.3 | 0.0 | - | - | - |
| 8 | ALPINE | 0.0 | 0.0 | - | - | - |
| 9 | EL DORADO | 292.7 | 0.3 | 1.1 * | 0.0 | 14.9 |
| 10 | SAN MATEO | 2,375.7 | 6.0 | 2.5 * | 0.9 | 5.5 |
| 11 | IMPERIAL | 2,747.3 | 7.3 | 2.7 * | 1.1 | 5.4 |
| 12 | GLENN | 208.3 | 0.7 | 3.2 * | 0.0 | 23.9 |
| 13 | HUMBOLDT | 206.0 | 0.7 | 3.2 * | 0.0 | 24.2 |
| 14 | ALAMEDA | 5,425.0 | 18.3 | 3.4 * | 2.0 | 5.3 |
| 15 | NAPA | 761.0 | 2.7 | 3.5 * | 0.6 | 10.9 |
| 16 | SAN DIEGO | 18,437.0 | 65.0 | 3.5 | 2.7 | 4.5 |
| 17 | SANTA CLARA | 8,029.3 | 29.7 | 3.7 | 2.5 | 5.3 |
| 18 | SANTA BARBARA | 3,735.0 | 14.0 | 3.7 * | 2.0 | 6.3 |
| 19 | YUBA | 354.0 | 1.3 | 3.8 * | 0.2 | 17.3 |
| 20 | YOLO | 965.7 | 3.7 | 3.8 * | 1.0 | 10.1 |
| 21 | TEHAMA | 253.7 | 1.0 | 3.9 * | 0.1 | 22.0 |
| 22 | SISKIYOU | 82.3 | 0.3 | 4.0 * | 0.0 | 52.9 |
| 23 | ORANGE | 17,731.7 | 72.0 | 4.1 | 3.2 | 5.1 |
| 24 | TULARE | 5,709.3 | 24.7 | 4.3 | 2.8 | 6.4 |
| 25 | SONOMA | 1,999.7 | 8.7 | 4.3 * | 1.9 | 8.3 |
| 26 | LOS ANGELES | 75,538.3 | 333.7 | 4.4 | 3.9 | 4.9 |
| 27 | PLACER | 678.3 | 3.0 | 4.4 * | 0.9 | 12.9 |
| 28 | MENDOCINO | 375.0 | 1.7 | 4.4 * | 0.4 | 17.8 |
| 29 | COLUSA | 225.0 | 1.0 | 4.4 * | 0.1 | 24.8 |
| 30 | MARIN | 667.3 | 3.0 | 4.5 * | 0.9 | 13.1 |
| | CALIFORNIA | 244,208.7 | 1,134.3 | 4.6 | 4.4 | 4.9 |
| 31 | MONTEREY | 4,942.7 | 23.0 | 4.7 | 2.9 | 7.0 |
| 32 | CONTRA COSTA | 4,082.3 | 19.0 | 4.7 * | 2.8 | 7.3 |
| 33 | RIVERSIDE | 17,564.7 | 83.3 | 4.7 | 3.8 | 5.9 |
| 34 | SACRAMENTO | 5,390.3 | 25.7 | 4.8 | 3.1 | 7.0 |
| 35 | SAN FRANCISCO | 1,669.7 | 8.0 | 4.8 * | 2.1 | 9.4 |
| 36 | SOLANO | 1,700.0 | 8.3 | 4.9 * | 2.2 | 9.5 |
| 37 | SAN JOAQUIN | 4,901.7 | 24.3 | 5.0 | 3.2 | 7.4 |
| 38 | TUOLUMNE | 66.0 | 0.3 | 5.1 * | 0.0 | 66.0 |
| 39 | VENTURA | 6,183.7 | 31.3 | 5.1 | 3.5 | 7.2 |
| 40 | SAN BENITO | 522.0 | 2.7 | 5.1 * | 0.9 | 15.8 |
| 41 | SANTA CRUZ | 1,688.3 | 8.7 | 5.1 * | 2.3 | 9.9 |
| 42 | BUTTE | 452.7 | 2.3 | 5.2 * | 0.8 | 17.1 |
| 43 | MERCED | 2,762.7 | 14.3 | 5.2 * | 2.9 | 8.7 |
| 44 | SUTTER | 507.7 | 2.7 | 5.3 * | 0.9 | 16.3 |
| 45 | KINGS | 1,453.3 | 8.0 | 5.5 * | 2.4 | 10.8 |
| 46 | NEVADA | 120.0 | 0.7 | 5.6 * | 0.0 | 41.5 |
| 47 | SAN BERNARDINO | 17,686.0 | 102.0 | 5.8 | 4.6 | 6.9 |
| 48 | MADERA | 1,708.7 | 10.3 | 6.0 * | 2.9 | 11.0 |
| | HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: MICH-1.3 | | | 6.0 | | |
| 49 | STANISLAUS | 4,092.3 | 25.3 | 6.2 | 4.0 | 9.1 |
| 50 | KERN | 8,665.7 | 57.0 | 6.6 | 5.0 | 8.5 |
| 51 | SAN LUIS OBISPO | 878.0 | 6.0 | 6.8 * | 2.5 | 14.9 |
| 52 | FRESNO | 9,587.3 | 67.3 | 7.0 | 5.4 | 8.9 |
| 53 | AMADOR | 45.7 | 0.3 | 7.3 * | 0.0 | 95.4 |
| 54 | CALAVERAS | 42.0 | 0.3 | 7.9 * | 0.0 | 103.8 |
| 55 | LAKE | 203.0 | 1.7 | 8.2 * | 0.7 | 33.0 |
| 56 | SHASTA | 205.7 | 2.0 | 9.7 * | 1.2 | 35.1 |
| 57 | PLUMAS | 15.7 | 0.3 | 21.3 * | 0.0 | 278.2 |
| 58 | MODOC | 13.7 | 0.3 | 24.4 * | 0.0 | 318.9 |

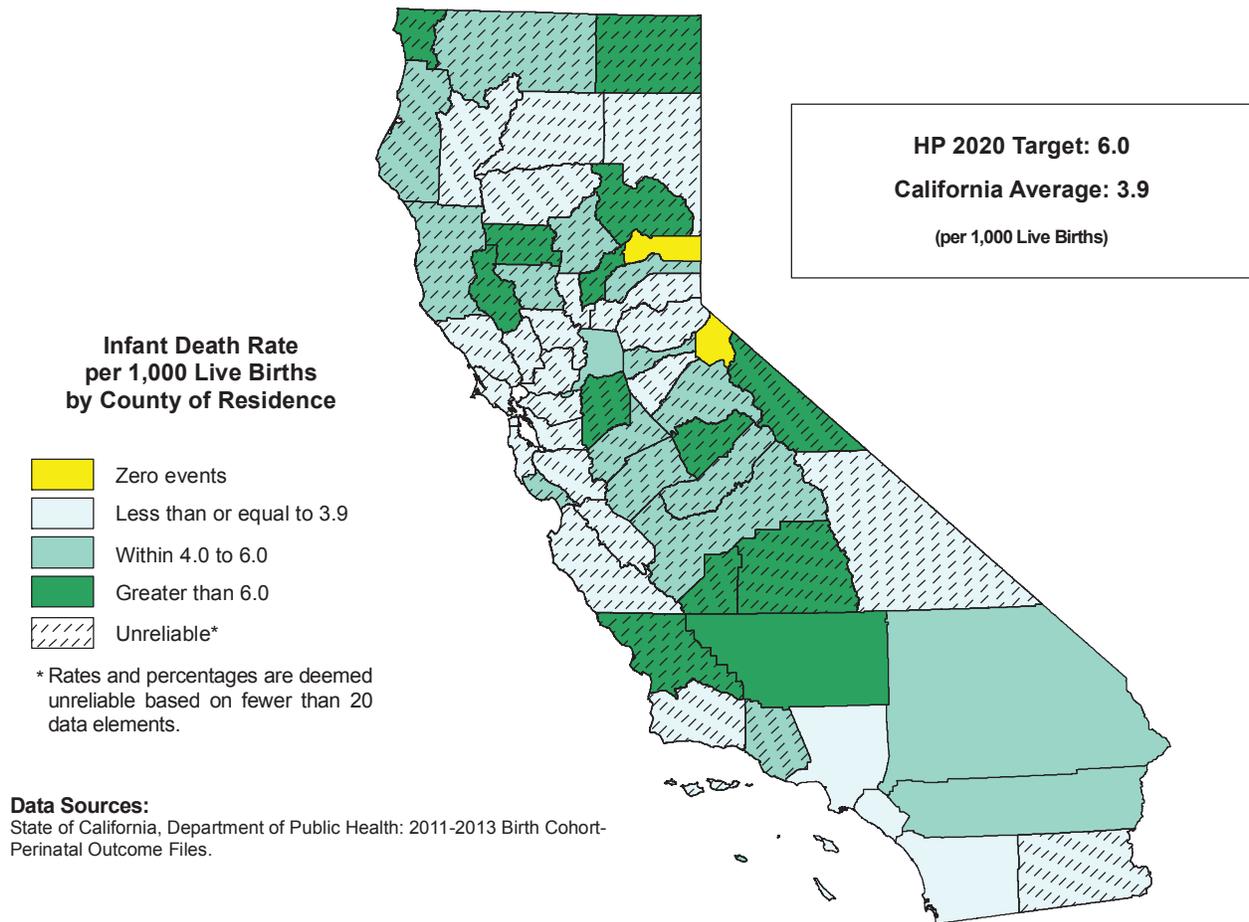
* Rates are deemed unreliable based on fewer than 20 data elements.

- Rates, percentages, and confidence limits are not calculated for zero events.

Note: Counties were rank ordered first by increasing birth cohort infant death rate (calculated to 15 decimal places), second by decreasing number of live births.

Source: State of California, Department of Public Health: 2011-2013 Birth Cohort-Perinatal Outcome Files.

WHITE INFANT MORTALITY, 2011-2013



The California birth cohort infant death rate for Whites was 3.9 deaths per 1,000 live births, a risk of dying equivalent to approximately one infant death for every 257.3 live births in the infant group. This rate was based on 2011 through 2013 three-year average numbers of White infant deaths equaling 538 and live births equaling 138,420.

Among counties with reliable rates, the birth cohort infant death rate for Whites ranged from 6.8 in Kern County to 2.7 in Orange County, a factor of 2.5 to 1.

Six counties with reliable birth cohort infant death rates and California as a whole met the Healthy People 2020 National Objective MICH-1.3 of no more than 6.0 infant deaths per 1,000 live births. An additional thirty-seven counties with unreliable rates and two counties with no infant deaths met the objective.

The California birth cohort infant death rate for Whites for the 2008-2010 period was 4.2 per 1,000 live births.

**TABLE 24E
WHITE INFANT MORTALITY
RANKED BY THREE-YEAR AVERAGE BIRTH COHORT INFANT DEATH RATE
CALIFORNIA COUNTIES, 2011-2013**

| RANK ORDER | COUNTY OF RESIDENCE | THREE-YEAR AVERAGE | | BIRTH COHORT INFANT DEATH RATE | 95% CONFIDENCE LIMITS | |
|------------|---|--------------------|---------------|--------------------------------|-----------------------|------------|
| | | LIVE BIRTHS | INFANT DEATHS | | LOWER | UPPER |
| 1 | SIERRA | 15.7 | 0.0 | - | - | - |
| 2 | ALPINE | 2.0 | 0.0 | - | - | - |
| 3 | SAN MATEO | 2,572.7 | 2.7 | 1.0 * | 0.2 | 3.2 |
| 4 | LASSEN | 230.3 | 0.3 | 1.4 * | 0.0 | 18.9 |
| 5 | IMPERIAL | 206.7 | 0.3 | 1.6 * | 0.0 | 21.1 |
| 6 | YOLO | 1,015.3 | 2.3 | 2.3 * | 0.3 | 7.6 |
| 7 | SAN FRANCISCO | 3,613.3 | 8.3 | 2.3 * | 1.0 | 4.5 |
| 8 | EL DORADO | 1,114.3 | 2.7 | 2.4 * | 0.4 | 7.4 |
| 9 | SONOMA | 2,378.3 | 6.0 | 2.5 * | 0.9 | 5.5 |
| 10 | CALAVERAS | 260.3 | 0.7 | 2.6 * | 0.0 | 19.1 |
| 11 | SANTA BARBARA | 1,557.7 | 4.0 | 2.6 * | 0.7 | 6.6 |
| 12 | ORANGE | 11,244.0 | 30.7 | 2.7 | 1.8 | 3.9 |
| 13 | SOLANO | 1,682.7 | 4.7 | 2.8 * | 0.9 | 6.7 |
| 14 | MARIN | 1,336.0 | 4.0 | 3.0 * | 0.8 | 7.7 |
| 15 | INYO | 111.0 | 0.3 | 3.0 * | 0.0 | 39.3 |
| 16 | SANTA CLARA | 5,164.7 | 15.7 | 3.0 * | 1.7 | 5.0 |
| 17 | ALAMEDA | 4,627.3 | 14.3 | 3.1 * | 1.7 | 5.2 |
| 18 | SUTTER | 517.0 | 1.7 | 3.2 * | 0.3 | 12.9 |
| 19 | LOS ANGELES | 22,917.7 | 74.7 | 3.3 | 2.6 | 4.1 |
| 20 | PLACER | 2,523.7 | 8.3 | 3.3 * | 1.5 | 6.4 |
| 21 | SAN DIEGO | 15,414.3 | 51.7 | 3.4 | 2.5 | 4.4 |
| 22 | CONTRA COSTA | 4,129.7 | 14.3 | 3.5 * | 1.9 | 5.8 |
| 23 | MONTEREY | 1,225.3 | 4.3 | 3.5 * | 1.0 | 8.8 |
| 24 | TRINITY | 93.7 | 0.3 | 3.6 * | 0.0 | 46.5 |
| 25 | NAPA | 558.7 | 2.0 | 3.6 * | 0.4 | 12.9 |
| 26 | SAN BENITO | 184.7 | 0.7 | 3.6 * | 0.0 | 27.0 |
| 27 | SHASTA | 1,642.0 | 6.0 | 3.7 * | 1.3 | 8.0 |
| 28 | TEHAMA | 449.3 | 1.7 | 3.7 * | 0.3 | 14.9 |
| | CALIFORNIA | 138,420.0 | 538.0 | 3.9 | 3.6 | 4.2 |
| 29 | SANTA CRUZ | 1,161.3 | 4.7 | 4.0 * | 1.2 | 9.6 |
| 30 | VENTURA | 3,285.0 | 13.3 | 4.1 * | 2.2 | 6.9 |
| 31 | SISKIYOU | 320.7 | 1.3 | 4.2 * | 0.2 | 19.1 |
| 32 | SACRAMENTO | 7,525.0 | 31.7 | 4.2 | 2.9 | 6.0 |
| 33 | RIVERSIDE | 8,209.0 | 34.7 | 4.2 | 2.9 | 5.9 |
| 34 | MERCED | 945.0 | 4.0 | 4.2 * | 1.2 | 10.8 |
| 35 | COLUSA | 72.0 | 0.3 | 4.6 * | 0.0 | 60.5 |
| 36 | TUOLUMNE | 352.3 | 1.7 | 4.7 * | 0.4 | 19.0 |
| 37 | MENDOCINO | 556.3 | 2.7 | 4.8 * | 0.9 | 14.9 |
| 38 | NEVADA | 615.0 | 3.0 | 4.9 * | 1.0 | 14.3 |
| 39 | AMADOR | 200.3 | 1.0 | 5.0 * | 0.1 | 27.8 |
| 40 | HUMBOLDT | 993.0 | 5.0 | 5.0 * | 1.6 | 11.8 |
| 41 | BUTTE | 1,587.7 | 8.0 | 5.0 * | 2.2 | 9.9 |
| 42 | MADERA | 475.7 | 2.7 | 5.6 * | 1.0 | 17.4 |
| 43 | SAN BERNARDINO | 7,391.7 | 42.7 | 5.8 | 4.2 | 7.8 |
| 44 | STANISLAUS | 2,603.3 | 15.3 | 5.9 * | 3.3 | 9.7 |
| 45 | FRESNO | 3,242.3 | 19.3 | 6.0 * | 3.6 | 9.3 |
| | HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: MICH-1.3 | | | 6.0 | | |
| 46 | SAN LUIS OBISPO | 1,534.7 | 9.3 | 6.1 * | 2.8 | 11.4 |
| 47 | MODOC | 54.3 | 0.3 | 6.1 * | 0.0 | 80.2 |
| 48 | TULARE | 1,642.7 | 10.3 | 6.3 * | 3.1 | 11.5 |
| 49 | GLENN | 154.7 | 1.0 | 6.5 * | 0.2 | 36.0 |
| 50 | KERN | 3,943.0 | 27.0 | 6.8 | 4.5 | 10.0 |
| 51 | YUBA | 674.7 | 4.7 | 6.9 * | 2.1 | 16.6 |
| 52 | KINGS | 710.7 | 5.0 | 7.0 * | 2.3 | 16.4 |
| 53 | SAN JOAQUIN | 2,453.3 | 18.0 | 7.3 * | 4.3 | 11.6 |
| 54 | PLUMAS | 126.3 | 1.0 | 7.9 * | 0.2 | 44.1 |
| 55 | LAKE | 444.7 | 3.7 | 8.2 * | 2.1 | 21.9 |
| 56 | MARIPOSA | 108.0 | 1.0 | 9.3 * | 0.2 | 51.6 |
| 57 | MONO | 69.7 | 0.7 | 9.6 * | 0.0 | 71.5 |
| 58 | DEL NORTE | 179.3 | 2.0 | 11.2 * | 1.4 | 40.3 |

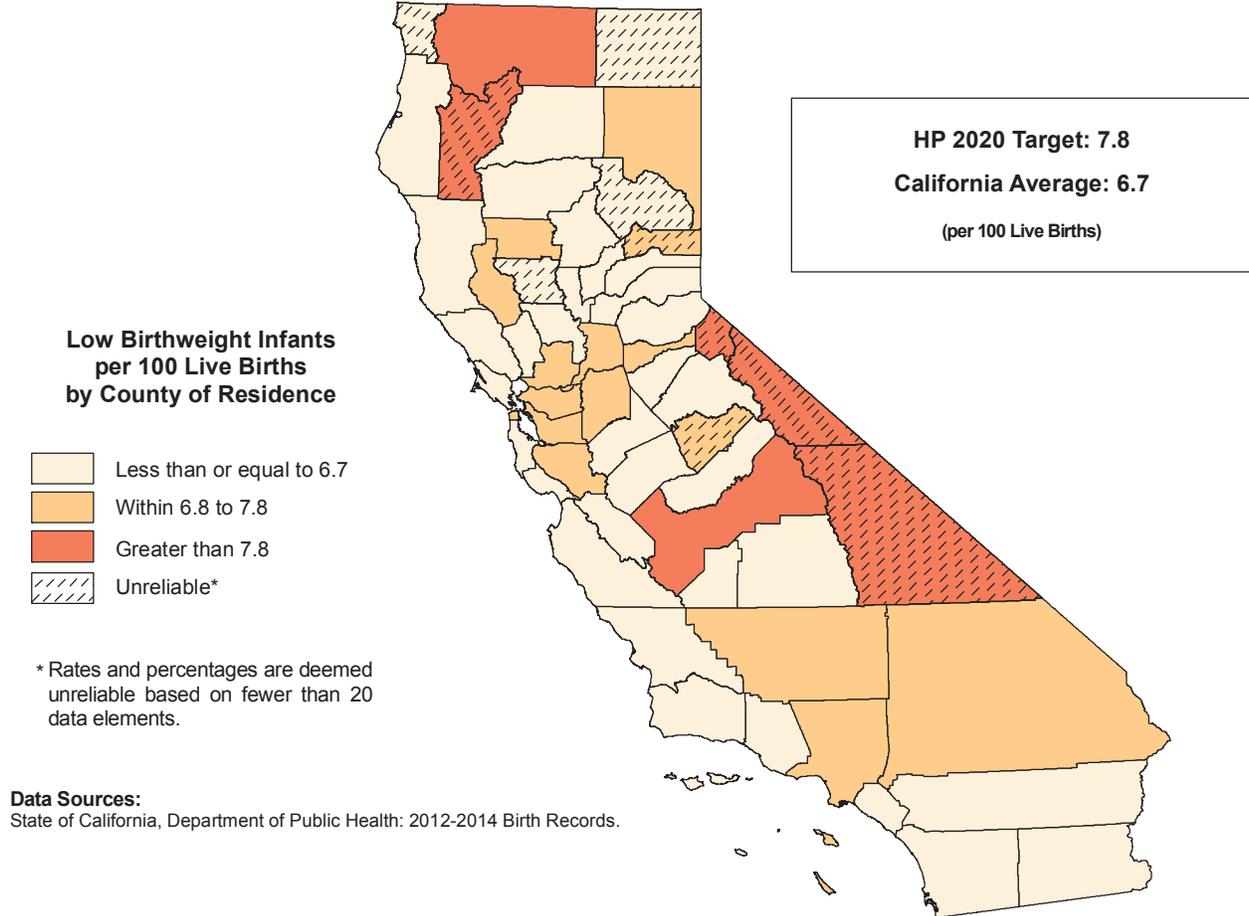
* Rates are deemed unreliable based on fewer than 20 data elements.

- Rates, percentages, and confidence limits are not calculated for zero events.

Note: Counties were rank ordered first by increasing birth cohort infant death rate (calculated to 15 decimal places), second by decreasing number of live births.

Source: State of California, Department of Public Health: 2011-2013 Birth Cohort-Perinatal Outcome Files.

LOW BIRTHWEIGHT INFANTS, 2012-2014



The percentage of low birthweight infants for California was 6.7 per 100 live births, or about one infant with low birthweight for every 14.8 live births. The percentage for California was based on a 2012 through 2014 three-year average number of low birthweight infants equaling 33,725.3 and live births count of 500,353.7.

Among counties with reliable percentages, the percentage of low birthweight infants ranged from 8.0 in Siskiyou County to 5.4 in Santa Cruz County, a factor of 1.5 to 1.

Forty-six counties with reliable percentages and California as a whole met the Healthy People 2020 National Objective MICH-8.1 of reducing the incidence of low birthweight infants to no more than 7.8 percent of live births. An additional six counties with unreliable percentages met the objective.

The California percentage of low birthweight infants for the 2009-2011 period was 6.8 per 100 live births.

**TABLE 25
LOW BIRTHWEIGHT INFANTS
RANKED BY THREE-YEAR AVERAGE LOW BIRTHWEIGHT PERCENTAGE
CALIFORNIA COUNTIES, 2012-2014**

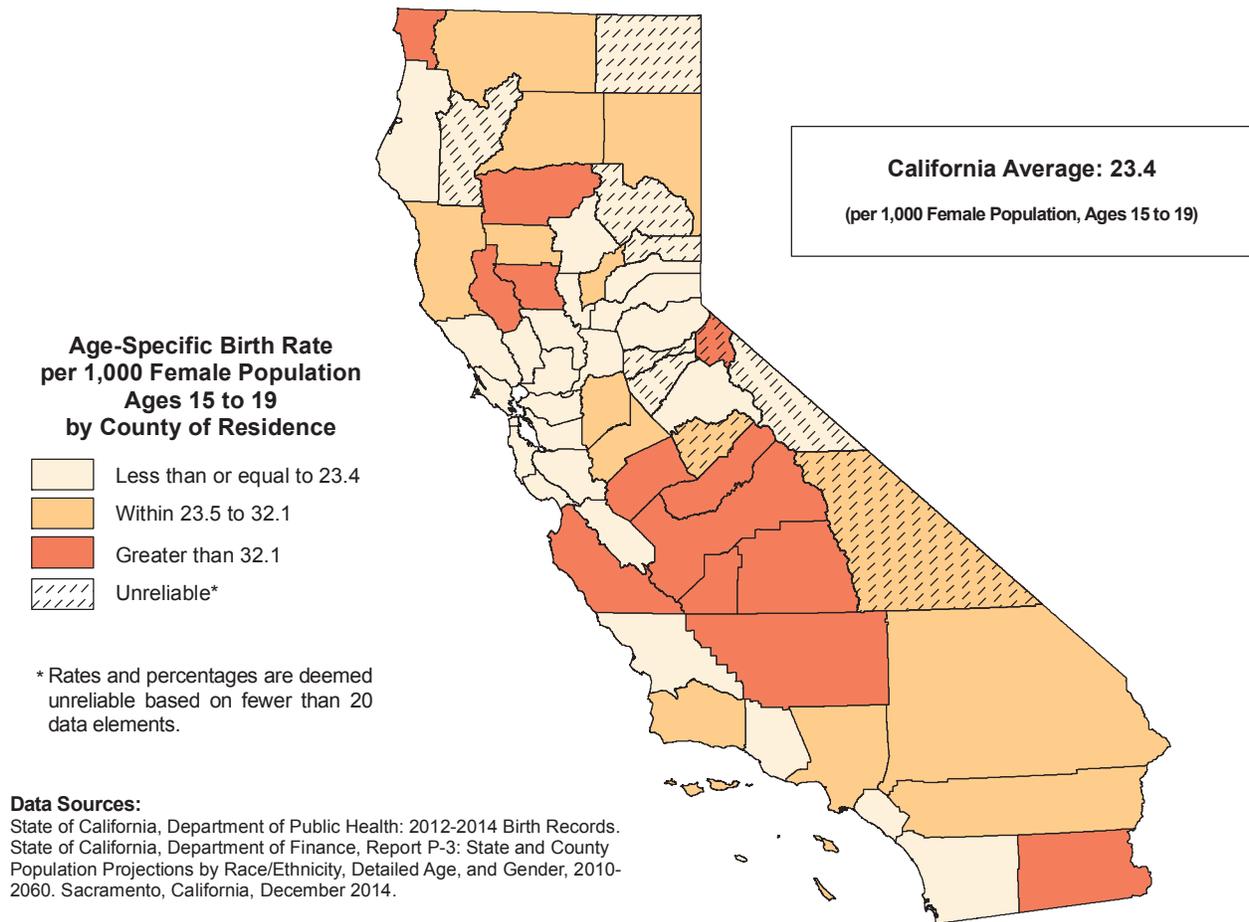
| RANK ORDER | COUNTY OF RESIDENCE | 2012-2014 LIVE BIRTHS (AVERAGE) | | | 95% CONFIDENCE LIMITS | |
|------------|---|---------------------------------|-----------------|------------|-----------------------|------------|
| | | LIVE BIRTHS | LOW BIRTHWEIGHT | | LOWER | UPPER |
| | | | NUMBER | PERCENT | | |
| 1 | DEL NORTE | 313.7 | 15.3 | 4.9* | 2.8 | 8.0 |
| 2 | SANTA CRUZ | 2,999.3 | 162.7 | 5.4 | 4.6 | 6.3 |
| 3 | IMPERIAL | 3,125.7 | 174.0 | 5.6 | 4.7 | 6.4 |
| 4 | PLACER | 3,658.0 | 204.7 | 5.6 | 4.8 | 6.4 |
| 5 | HUMBOLDT | 1,504.7 | 85.0 | 5.6 | 4.5 | 7.0 |
| 6 | YOLO | 2,446.0 | 138.7 | 5.7 | 4.7 | 6.6 |
| 7 | SONOMA | 5,067.0 | 287.7 | 5.7 | 5.0 | 6.3 |
| 8 | NEVADA | 814.3 | 47.0 | 5.8 | 4.2 | 7.7 |
| 9 | CALAVERAS | 344.0 | 20.0 | 5.8 | 3.6 | 9.0 |
| 10 | SAN BENITO | 716.3 | 42.0 | 5.9 | 4.2 | 7.9 |
| 11 | YUBA | 1,202.0 | 70.7 | 5.9 | 4.6 | 7.4 |
| 12 | SAN LUIS OBISPO | 2,607.7 | 153.3 | 5.9 | 4.9 | 6.8 |
| 13 | MENDOCINO | 1,062.0 | 62.7 | 5.9 | 4.5 | 7.6 |
| 14 | MONTEREY | 6,552.0 | 389.3 | 5.9 | 5.4 | 6.5 |
| 15 | TEHAMA | 769.0 | 46.0 | 6.0 | 4.4 | 8.0 |
| 16 | TUOLUMNE | 462.3 | 27.7 | 6.0 | 4.0 | 8.7 |
| 17 | EL DORADO | 1,554.7 | 93.7 | 6.0 | 4.9 | 7.4 |
| 18 | SHASTA | 2,111.0 | 127.3 | 6.0 | 5.0 | 7.1 |
| 19 | MADERA | 2,295.0 | 138.7 | 6.0 | 5.0 | 7.0 |
| 20 | SANTA BARBARA | 5,722.0 | 346.3 | 6.1 | 5.4 | 6.7 |
| 21 | MARIN | 2,343.0 | 142.3 | 6.1 | 5.1 | 7.1 |
| 22 | MODOC | 76.3 | 4.7 | 6.1* | 1.9 | 14.7 |
| 23 | KINGS | 2,364.3 | 145.0 | 6.1 | 5.1 | 7.1 |
| 24 | BUTTE | 2,431.0 | 149.7 | 6.2 | 5.2 | 7.1 |
| 25 | NAPA | 1,452.7 | 91.0 | 6.3 | 5.0 | 7.7 |
| 26 | ORANGE | 38,017.3 | 2,388.0 | 6.3 | 6.0 | 6.5 |
| 27 | STANISLAUS | 7,561.3 | 475.3 | 6.3 | 5.7 | 6.9 |
| 28 | VENTURA | 10,517.3 | 664.3 | 6.3 | 5.8 | 6.8 |
| 29 | MERCED | 4,210.0 | 267.0 | 6.3 | 5.6 | 7.1 |
| 30 | SUTTER | 1,286.7 | 81.7 | 6.3 | 5.0 | 7.9 |
| 31 | COLUSA | 304.0 | 19.3 | 6.4* | 3.8 | 9.9 |
| 32 | TULARE | 7,756.3 | 495.3 | 6.4 | 5.8 | 6.9 |
| 33 | SAN DIEGO | 44,204.7 | 2,843.3 | 6.4 | 6.2 | 6.7 |
| 34 | RIVERSIDE | 30,172.3 | 1,998.7 | 6.6 | 6.3 | 6.9 |
| 35 | PLUMAS | 150.0 | 10.0 | 6.7* | 3.2 | 12.3 |
| 36 | SAN MATEO | 9,033.0 | 603.3 | 6.7 | 6.1 | 7.2 |
| | CALIFORNIA | 500,353.7 | 33,725.3 | 6.7 | 6.7 | 6.8 |
| 37 | CONTRA COSTA | 12,255.3 | 828.0 | 6.8 | 6.3 | 7.2 |
| 38 | LAKE | 748.3 | 50.7 | 6.8 | 5.0 | 8.9 |
| 39 | SACRAMENTO | 19,618.0 | 1,340.7 | 6.8 | 6.5 | 7.2 |
| 40 | SANTA CLARA | 23,784.3 | 1,652.7 | 6.9 | 6.6 | 7.3 |
| 41 | LASSEN | 306.0 | 21.3 | 7.0 | 4.3 | 10.6 |
| 42 | LOS ANGELES | 130,118.3 | 9,074.0 | 7.0 | 6.8 | 7.1 |
| 43 | SAN FRANCISCO | 8,992.7 | 628.3 | 7.0 | 6.4 | 7.5 |
| 44 | SOLANO | 5,189.0 | 363.7 | 7.0 | 6.3 | 7.7 |
| 45 | KERN | 14,295.7 | 1,003.3 | 7.0 | 6.6 | 7.5 |
| 46 | SAN JOAQUIN | 10,007.0 | 709.7 | 7.1 | 6.6 | 7.6 |
| 47 | AMADOR | 279.0 | 20.0 | 7.2 | 4.4 | 11.1 |
| 48 | GLENN | 394.3 | 28.3 | 7.2 | 4.8 | 10.4 |
| 49 | SAN BERNARDINO | 30,732.7 | 2,228.7 | 7.3 | 7.0 | 7.6 |
| 50 | ALAMEDA | 19,484.3 | 1,427.7 | 7.3 | 6.9 | 7.7 |
| 51 | MARIPOSA | 144.3 | 10.7 | 7.4* | 3.6 | 13.3 |
| 52 | SIERRA | 18.0 | 1.3 | 7.4* | 0.4 | 34.1 |
| | HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: MICH-8.1 | | | 7.8 | | |
| 53 | FRESNO | 15,827.3 | 1,247.0 | 7.9 | 7.4 | 8.3 |
| 54 | INYO | 225.0 | 18.0 | 8.0* | 4.7 | 12.6 |
| 55 | TRINITY | 112.3 | 9.0 | 8.0* | 3.7 | 15.2 |
| 56 | SISKIYOU | 465.0 | 37.3 | 8.0 | 5.7 | 11.1 |
| 57 | MONO | 143.3 | 12.3 | 8.6* | 4.5 | 14.9 |
| 58 | ALPINE | 6.3 | 1.0 | 15.8* | 0.4 | 88.0 |

* Rates are deemed unreliable based on fewer than 20 data elements.

Note: Counties were rank ordered first by increasing percent (calculated to 15 decimal places), second by decreasing number of live births.

Source: State of California, Department of Public Health: 2012-2014 Birth Records.

BIRTHS TO ADOLESCENT MOTHERS, 15 TO 19 YEARS OLD, 2012-2014



The age-specific birth rate to adolescent mothers, ages 15 to 19 years old, for California was 23.4 births per 1,000 female population, ages 15 to 19 years old, or approximately one birth for every 42.7 females in the corresponding age group. The age specific birth rate for California was based on a 2012 through 2014 three-year average number of births to adolescent mothers, ages 15 to 19 years old, equaling 30,815.7 and a population count for females, ages 15 to 19 years old, of 1,314,431 as of July 1, 2013.

Among counties with reliable rates, the age-specific birth rate of births to adolescent mothers, ages 15 to 19 years old, ranged from 45.1 in Kern County to 7.0 in Marin County, a factor of 6.4 to 1.

A Healthy People 2020 National Objective for births to adolescent mothers, ages 15 to 19 years old, has not been established.

The California age-specific birth rate to adolescent mothers, ages 15 to 19 years old, for the 2009-2011 period was 31.5 per 1,000 female population in the corresponding age group.

**TABLE 26
BIRTHS TO ADOLESCENT MOTHERS, 15 TO 19 YEARS OLD
RANKED BY THREE-YEAR AVERAGE AGE-SPECIFIC BIRTH RATE
CALIFORNIA COUNTIES, 2012-2014**

| RANK ORDER | COUNTY OF RESIDENCE | 2013 POPULATION (FEMALES AGES 15 TO 19) | 2012-2014 LIVE BIRTHS (AVERAGE) | AGE-SPECIFIC BIRTH RATE | 95% CONFIDENCE LIMITS | |
|--|---------------------|---|---------------------------------|-------------------------|-----------------------|-------------|
| | | | | | LOWER | UPPER |
| HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: NOT ESTABLISHED | | | | | | |
| 1 | MARIN | 7,004 | 49.0 | 7.0 | 5.2 | 9.2 |
| 2 | PLACER | 12,981 | 111.0 | 8.6 | 7.0 | 10.1 |
| 3 | EL DORADO | 6,414 | 68.3 | 10.7 | 8.3 | 13.5 |
| 4 | CALAVERAS | 1,418 | 16.3 | 11.5 * | 6.6 | 18.6 |
| 5 | SAN FRANCISCO | 13,984 | 164.0 | 11.7 | 9.9 | 13.5 |
| 6 | NEVADA | 2,947 | 34.7 | 11.8 | 8.2 | 16.4 |
| 7 | SAN MATEO | 21,287 | 259.0 | 12.2 | 10.7 | 13.6 |
| 8 | YOLO | 9,010 | 116.7 | 12.9 | 10.6 | 15.3 |
| 9 | CONTRA COSTA | 37,621 | 494.0 | 13.1 | 12.0 | 14.3 |
| 10 | PLUMAS | 529 | 7.0 | 13.2 * | 5.3 | 27.3 |
| 11 | MODOC | 334 | 4.7 | 14.0 * | 4.3 | 33.5 |
| 12 | SANTA CLARA | 55,892 | 809.0 | 14.5 | 13.5 | 15.5 |
| 13 | SONOMA | 15,093 | 220.3 | 14.6 | 12.7 | 16.5 |
| 14 | ALAMEDA | 45,920 | 684.3 | 14.9 | 13.8 | 16.0 |
| 15 | SAN LUIS OBISPO | 9,478 | 141.7 | 14.9 | 12.5 | 17.4 |
| 16 | ORANGE | 106,655 | 1,806.7 | 16.9 | 16.2 | 17.7 |
| 17 | SIERRA | 78 | 1.3 | 17.1 * | 0.9 | 78.7 |
| 18 | NAPA | 4,619 | 79.7 | 17.2 | 13.7 | 21.5 |
| 19 | TUOLUMNE | 1,470 | 26.7 | 18.1 | 11.9 | 26.5 |
| 20 | SANTA CRUZ | 9,477 | 189.7 | 20.0 | 17.2 | 22.9 |
| 21 | BUTTE | 8,244 | 166.3 | 20.2 | 17.1 | 23.2 |
| 22 | SOLANO | 14,578 | 298.0 | 20.4 | 18.1 | 22.8 |
| 23 | SAN BENITO | 2,401 | 49.7 | 20.7 | 15.3 | 27.3 |
| 24 | MONO | 412 | 8.7 | 21.0 * | 9.4 | 40.4 |
| 25 | AMADOR | 929 | 19.7 | 21.2 * | 12.9 | 32.8 |
| 26 | VENTURA | 30,216 | 654.7 | 21.7 | 20.0 | 23.3 |
| 27 | SACRAMENTO | 49,874 | 1,130.7 | 22.7 | 21.3 | 24.0 |
| 28 | SAN DIEGO | 99,104 | 2,259.3 | 22.8 | 21.9 | 23.7 |
| 29 | HUMBOLDT | 4,015 | 93.0 | 23.2 | 18.7 | 28.4 |
| 30 | TRINITY | 416 | 9.7 | 23.2 * | 11.0 | 43.2 |
| 31 | SUTTER | 3,511 | 81.7 | 23.3 | 18.5 | 28.9 |
| | CALIFORNIA | 1,314,431 | 30,815.7 | 23.4 | 23.2 | 23.7 |
| 32 | LOS ANGELES | 342,428 | 8,052.0 | 23.5 | 23.0 | 24.0 |
| 33 | RIVERSIDE | 90,662 | 2,176.7 | 24.0 | 23.0 | 25.0 |
| 34 | MARIPOSA | 516 | 12.7 | 24.5 * | 12.9 | 42.3 |
| 35 | LASSEN | 941 | 23.3 | 24.8 | 15.8 | 37.1 |
| 36 | SHASTA | 5,668 | 142.0 | 25.1 | 20.9 | 29.2 |
| 37 | SANTA BARBARA | 16,642 | 429.0 | 25.8 | 23.3 | 28.2 |
| 38 | SAN JOAQUIN | 28,327 | 764.3 | 27.0 | 25.1 | 28.9 |
| 39 | SISKIYOU | 1,307 | 38.0 | 29.1 | 20.6 | 39.9 |
| 40 | SAN BERNARDINO | 84,474 | 2,537.0 | 30.0 | 28.9 | 31.2 |
| 41 | STANISLAUS | 20,290 | 612.0 | 30.2 | 27.8 | 32.6 |
| 42 | INYO | 591 | 18.0 | 30.5 * | 18.1 | 48.1 |
| 43 | YUBA | 2,727 | 84.0 | 30.8 | 24.6 | 38.1 |
| 44 | GLENN | 1,062 | 33.7 | 31.7 | 21.9 | 44.4 |
| 45 | MENDOCINO | 2,661 | 85.3 | 32.1 | 25.6 | 39.6 |
| 46 | COLUSA | 815 | 26.3 | 32.3 | 21.2 | 47.2 |
| 47 | TEHAMA | 2,302 | 75.0 | 32.6 | 25.6 | 40.8 |
| 48 | ALPINE | 40 | 1.3 | 33.3 * | 1.8 | 153.5 |
| 49 | LAKE | 1,903 | 66.0 | 34.7 | 26.8 | 44.1 |
| 50 | MERCED | 11,282 | 410.7 | 36.4 | 32.9 | 39.9 |
| 51 | MONTEREY | 14,412 | 533.0 | 37.0 | 33.8 | 40.1 |
| 52 | FRESNO | 37,962 | 1,487.0 | 39.2 | 37.2 | 41.2 |
| 53 | KINGS | 5,127 | 201.3 | 39.3 | 33.8 | 44.7 |
| 54 | DEL NORTE | 856 | 35.7 | 41.7 | 29.1 | 57.8 |
| 55 | MADERA | 5,675 | 243.7 | 42.9 | 37.5 | 48.3 |
| 56 | TULARE | 18,956 | 830.7 | 43.8 | 40.8 | 46.8 |
| 57 | IMPERIAL | 6,933 | 311.7 | 45.0 | 40.0 | 49.9 |
| 58 | KERN | 33,961 | 1,530.0 | 45.1 | 42.8 | 47.3 |

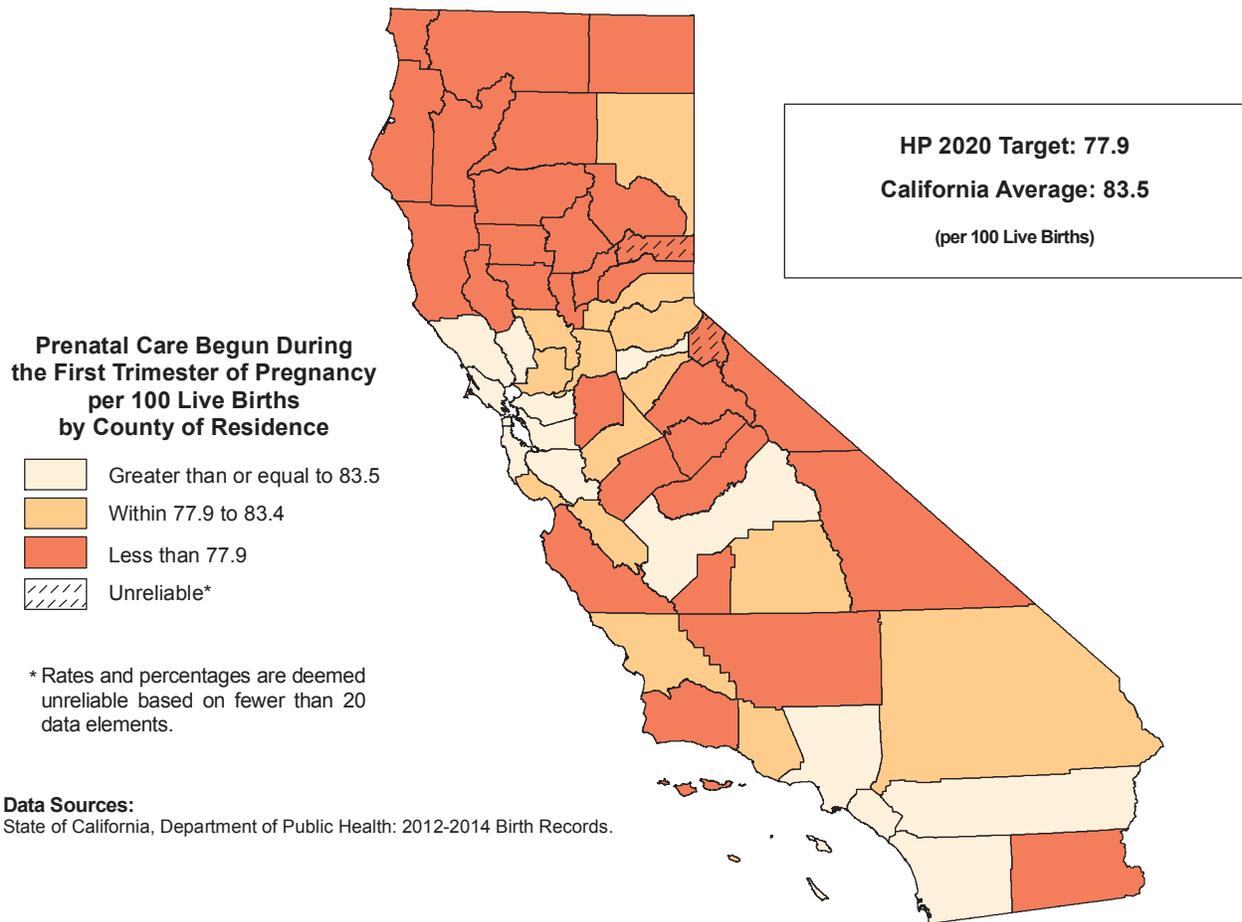
* Rates are deemed unreliable based on fewer than 20 data elements.

Note: Counties were rank ordered first by increasing age-specific birth rate (calculated to 15 decimal places), second by decreasing population count.

Sources: State of California, Department of Public Health: 2012-2014 Birth Records.

State of California, Department of Finance, Report P-3: State and County Population Projections by Race/Ethnicity, Detailed Age, and Gender, 2010-2060. Sacramento, California, December 2014.

PRENATAL CARE BEGUN DURING THE FIRST TRIMESTER OF PREGNANCY, 2012-2014



The percentage of births to mothers with prenatal care begun during the first trimester of pregnancy for California was 83.5 per 100 live births. The percentage for California was based on a 2012 through 2014 three-year average number of births to mothers with prenatal care begun during the first trimester of pregnancy equaling 410,206.7 and a live births total of 491,182.3.

Among counties with reliable percentages, the percentage of births to mothers with prenatal care begun during the first trimester of pregnancy ranged from 92.6 in Marin County to 43.4 in Imperial County, a factor of 2.1 to 1.

Twenty-nine counties with reliable percentages and California as a whole met the Healthy People 2020 National Objective MICH-10.1 of achieving the percentage of births to mothers with prenatal care begun during the first trimester of pregnancy to at least 77.9 percent of live births. No counties with unreliable percentages met the objective.

The California percentage of births to mothers with prenatal care begun during the first trimester of pregnancy for the 2009-2011 period was 83.3 per 100 live births.

**TABLE 27A
 PRENATAL CARE BEGUN DURING THE FIRST TRIMESTER OF PREGNANCY
 RANKED BY PERCENTAGE OF THREE-YEAR AVERAGE FIRST TRIMESTER PRENATAL CARE
 CALIFORNIA COUNTIES, 2012-2014**

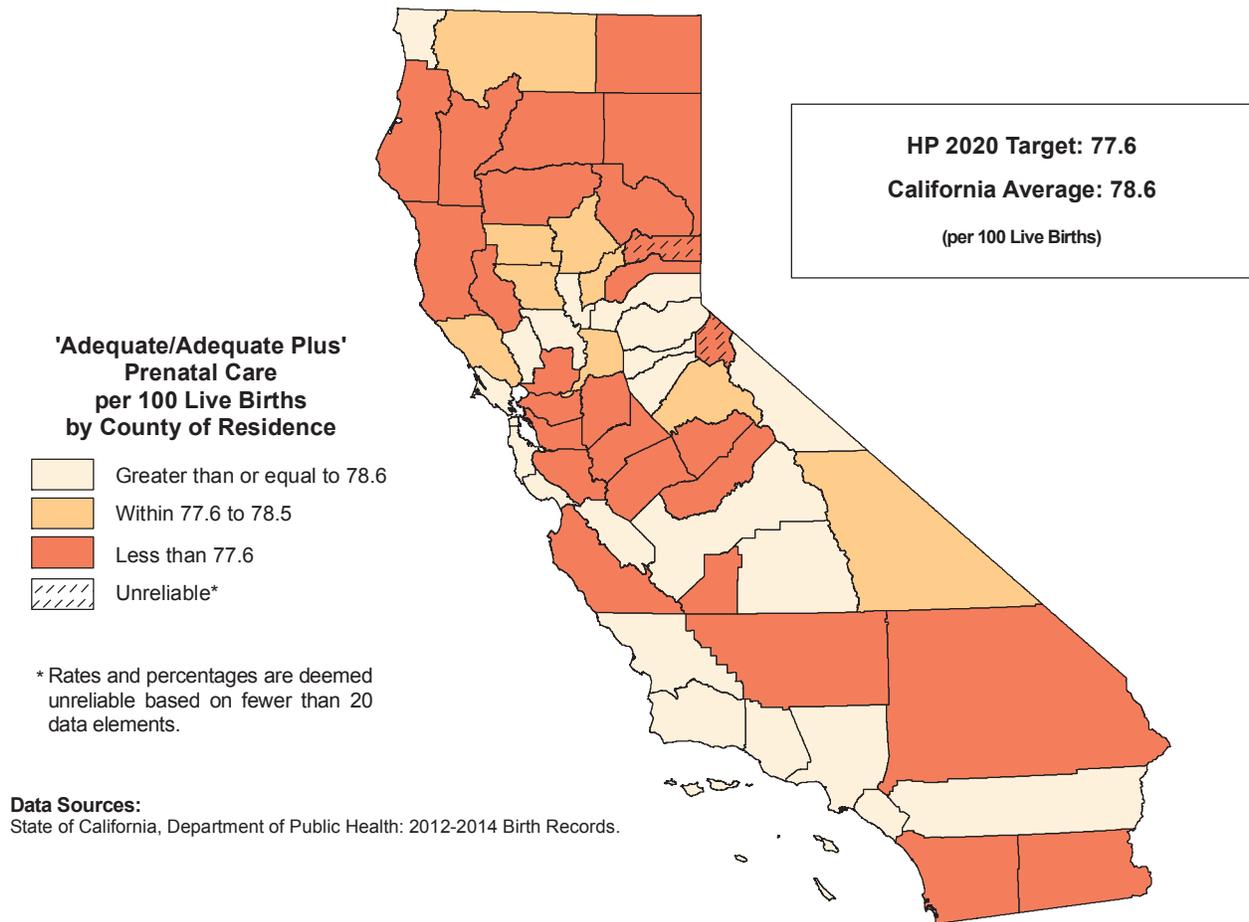
| RANK ORDER | COUNTY OF RESIDENCE | 2012-2014 LIVE BIRTHS (AVERAGE) | | | 95% CONFIDENCE LIMITS | |
|------------|--|---------------------------------|-------------------------------|-------------|-----------------------|-------------|
| | | TOTAL NUMBER | FIRST TRIMESTER PRENATAL CARE | | LOWER | UPPER |
| | | | NUMBER | PERCENT | | |
| 1 | MARIN | 2,326.7 | 2,155.0 | 92.6 | 88.7 | 96.5 |
| 2 | SAN MATEO | 9,012.3 | 8,131.0 | 90.2 | 88.3 | 92.2 |
| 3 | ALAMEDA | 18,989.7 | 17,110.0 | 90.1 | 88.8 | 91.5 |
| 4 | ORANGE | 37,397.7 | 33,314.7 | 89.1 | 88.1 | 90.0 |
| 5 | SAN FRANCISCO | 8,944.0 | 7,948.0 | 88.9 | 86.9 | 90.8 |
| 6 | NAPA | 1,434.7 | 1,270.0 | 88.5 | 83.7 | 93.4 |
| 7 | FRESNO | 15,288.7 | 13,434.0 | 87.9 | 86.4 | 89.4 |
| 8 | AMADOR | 276.7 | 239.3 | 86.5 | 75.5 | 97.5 |
| 9 | CONTRA COSTA | 12,197.0 | 10,484.7 | 86.0 | 84.3 | 87.6 |
| 10 | SONOMA | 5,057.0 | 4,298.3 | 85.0 | 82.5 | 87.5 |
| 11 | LOS ANGELES | 125,737.3 | 106,805.0 | 84.9 | 84.4 | 85.5 |
| 12 | SANTA CLARA | 23,691.7 | 20,096.3 | 84.8 | 83.7 | 86.0 |
| 13 | SAN DIEGO | 44,168.0 | 37,302.7 | 84.5 | 83.6 | 85.3 |
| 14 | RIVERSIDE | 30,027.3 | 25,172.3 | 83.8 | 82.8 | 84.9 |
| | CALIFORNIA | 491,182.3 | 410,206.7 | 83.5 | 83.3 | 83.8 |
| 15 | SAN BERNARDINO | 30,292.0 | 25,262.7 | 83.4 | 82.4 | 84.4 |
| 16 | YOLO | 2,414.3 | 2,009.3 | 83.2 | 79.6 | 86.9 |
| 17 | PLACER | 3,646.0 | 3,024.7 | 83.0 | 80.0 | 85.9 |
| 18 | VENTURA | 10,499.7 | 8,668.3 | 82.6 | 80.8 | 84.3 |
| 19 | SAN BENITO | 711.7 | 586.7 | 82.4 | 75.8 | 89.1 |
| 20 | SANTA CRUZ | 2,947.3 | 2,427.0 | 82.3 | 79.1 | 85.6 |
| 21 | SACRAMENTO | 19,186.0 | 15,684.0 | 81.7 | 80.5 | 83.0 |
| 22 | TULARE | 7,669.7 | 6,200.3 | 80.8 | 78.8 | 82.9 |
| 23 | SAN LUIS OBISPO | 2,578.0 | 2,070.3 | 80.3 | 76.8 | 83.8 |
| 24 | SOLANO | 5,158.3 | 4,112.3 | 79.7 | 77.3 | 82.2 |
| 25 | CALAVERAS | 339.3 | 270.3 | 79.7 | 70.2 | 89.2 |
| 26 | EL DORADO | 1,545.3 | 1,228.3 | 79.5 | 75.0 | 83.9 |
| 27 | STANISLAUS | 7,393.7 | 5,817.3 | 78.7 | 76.7 | 80.7 |
| 28 | LASSEN | 292.3 | 228.0 | 78.0 | 67.9 | 88.1 |
| 29 | SISKIYOU | 458.0 | 356.7 | 77.9 | 69.8 | 86.0 |
| | HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: MICH-10.1 | | | 77.9 | | |
| 30 | TUOLUMNE | 460.0 | 357.0 | 77.6 | 69.6 | 85.7 |
| 31 | INYO | 217.3 | 168.7 | 77.6 | 65.9 | 89.3 |
| 32 | HUMBOLDT | 1,477.0 | 1,140.3 | 77.2 | 72.7 | 81.7 |
| 33 | MONO | 141.3 | 108.7 | 76.9 | 62.4 | 91.3 |
| 34 | SANTA BARBARA | 5,703.7 | 4,379.7 | 76.8 | 74.5 | 79.1 |
| 35 | SAN JOAQUIN | 9,893.0 | 7,569.3 | 76.5 | 74.8 | 78.2 |
| 36 | KERN | 13,683.0 | 10,415.0 | 76.1 | 74.7 | 77.6 |
| 37 | DEL NORTE | 311.0 | 235.3 | 75.7 | 66.0 | 85.3 |
| 38 | BUTTE | 2,412.0 | 1,807.7 | 74.9 | 71.5 | 78.4 |
| 39 | PLUMAS | 143.7 | 106.7 | 74.2 | 60.2 | 88.3 |
| 40 | MONTEREY | 6,462.0 | 4,777.0 | 73.9 | 71.8 | 76.0 |
| 41 | NEVADA | 806.3 | 596.0 | 73.9 | 68.0 | 79.8 |
| 42 | MADERA | 2,254.3 | 1,642.0 | 72.8 | 69.3 | 76.4 |
| 43 | COLUSA | 303.0 | 216.3 | 71.4 | 61.9 | 80.9 |
| 44 | KINGS | 2,349.0 | 1,669.3 | 71.1 | 67.7 | 74.5 |
| 45 | LAKE | 735.0 | 521.3 | 70.9 | 64.8 | 77.0 |
| 46 | YUBA | 1,195.7 | 834.3 | 69.8 | 65.0 | 74.5 |
| 47 | MARIPOSA | 139.7 | 97.3 | 69.7 | 56.5 | 85.0 |
| 48 | TEHAMA | 764.7 | 532.7 | 69.7 | 63.7 | 75.6 |
| 49 | MENDOCINO | 1,040.3 | 716.0 | 68.8 | 63.8 | 73.9 |
| 50 | SIERRA | 17.0 | 11.7 | 68.6* | 35.1 | 100.0 |
| 51 | SUTTER | 1,284.0 | 878.7 | 68.4 | 63.9 | 73.0 |
| 52 | SHASTA | 2,075.3 | 1,410.0 | 67.9 | 64.4 | 71.5 |
| 53 | GLENN | 393.0 | 262.0 | 66.7 | 58.6 | 74.7 |
| 54 | MODOC | 72.0 | 48.0 | 66.7 | 49.2 | 88.4 |
| 55 | MERCED | 4,136.3 | 2,668.7 | 64.5 | 62.1 | 67.0 |
| 56 | TRINITY | 109.0 | 61.7 | 56.6 | 43.3 | 72.6 |
| 57 | IMPERIAL | 2,917.3 | 1,265.3 | 43.4 | 41.0 | 45.8 |
| 58 | ALPINE | 6.0 | 2.3 | 38.9* | 5.9 | 100.0 |

* Rates are deemed unreliable based on fewer than 20 data elements.

Note: Counties were rank ordered first by decreasing percent of births to mothers with first trimester prenatal care (calculated to 15 decimal places), second by decreasing size of the total number of live births.

Source: State of California, Department of Public Health: 2012-2014 Birth Records.

**'ADEQUATE/ADEQUATE PLUS' PRENATAL CARE
(ADEQUACY OF PRENATAL CARE UTILIZATION INDEX), 2012-2014**



The percentage of births to mothers with 'adequate/adequate plus' prenatal care for California was 78.6. The percentage for California was based on a 2012 through 2014 three-year average number of births to mothers with 'adequate/adequate plus' prenatal care equaling 383,041.0 and a live births total of 487,115.3.

Among counties with reliable percentages, the percentage of births to mothers with 'adequate/adequate plus' prenatal care ranged from 50.3 in Imperial County to 89.5 in Fresno County, a factor of 1.8 to 1.

Thirty-one counties with reliable percentages and California as a whole met the Healthy People 2020 National Objective MICH-10.2 of increasing the proportion of pregnant women receiving early and adequate prenatal care to at least 77.6 percent of total births according to the Adequacy of Prenatal Care Utilization Index. No counties with unreliable percentages met the objective. Please see Technical Notes, Natality Section, for determination of 'adequate/adequate plus' definition and additional clarification.

The California percentage of births to mothers with 'adequate/adequate plus' prenatal care for the 2009-2011 period was 79.7 per 100 live births.

**TABLE 27B
'ADEQUATE/ADEQUATE PLUS' PRENATAL CARE (ADEQUACY OF PRENATAL CARE UTILIZATION INDEX)
RANKED BY PERCENTAGE OF THREE-YEAR 'ADEQUATE/ADEQUATE PLUS' PRENATAL CARE
CALIFORNIA COUNTIES, 2012-2014**

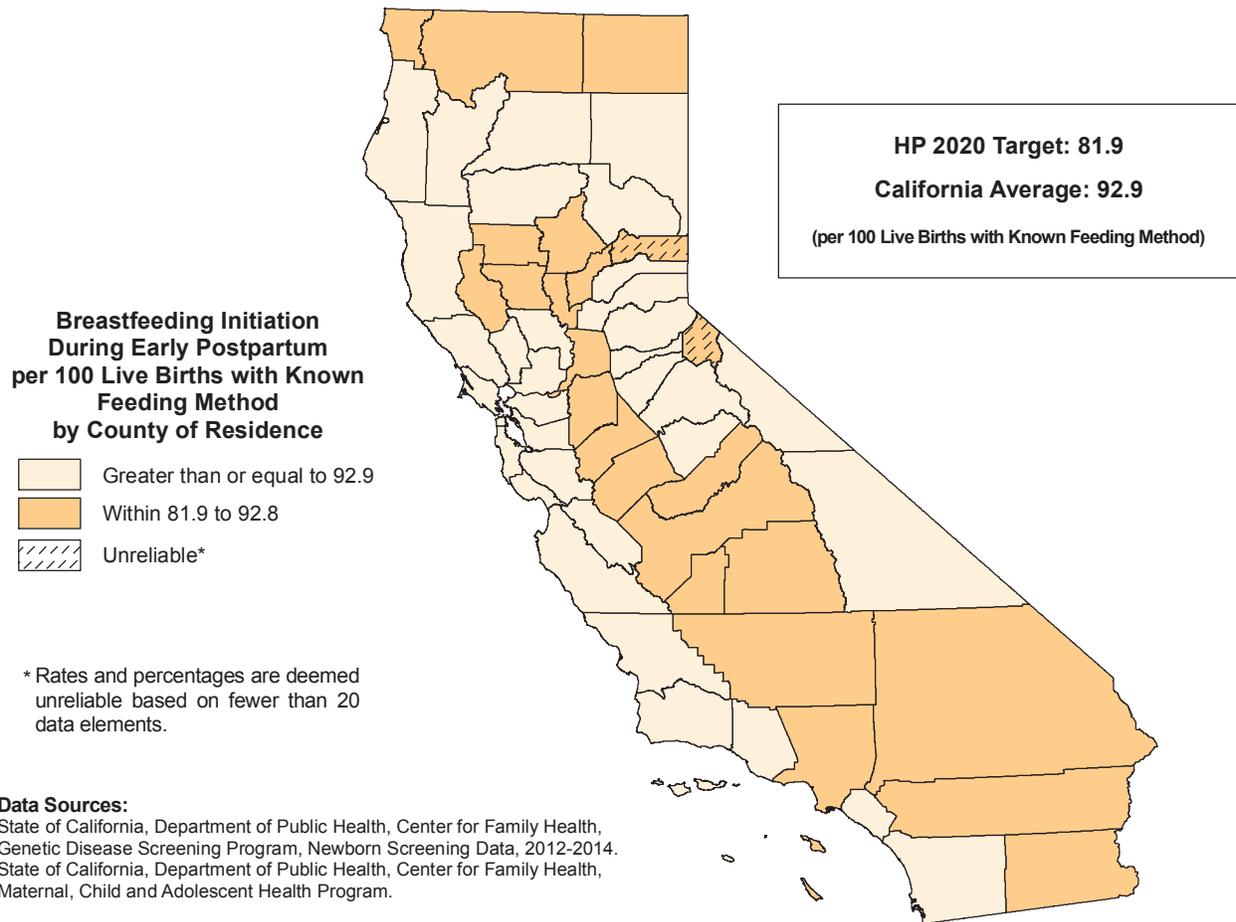
| RANK ORDER | COUNTY OF RESIDENCE | 2012-2014 LIVE BIRTHS (AVERAGE) | | | 95% CONFIDENCE LIMITS | |
|------------|--|---------------------------------|--|-------------|-----------------------|-------------|
| | | TOTAL NUMBER | ADEQUATE / ADEQUATE PLUS PRENATAL CARE | | LOWER | UPPER |
| | | | NUMBER | PERCENT | | |
| 1 | FRESNO | 15,026.0 | 13,451.3 | 89.5 | 88.0 | 91.0 |
| 2 | MARIN | 2,324.3 | 2,075.7 | 89.3 | 85.5 | 93.1 |
| 3 | ORANGE | 37,298.0 | 32,675.7 | 87.6 | 86.7 | 88.6 |
| 4 | SAN LUIS OBISPO | 2,563.7 | 2,228.7 | 86.9 | 83.3 | 90.5 |
| 5 | AMADOR | 276.3 | 236.0 | 85.4 | 74.5 | 96.3 |
| 6 | SANTA CRUZ | 2,895.0 | 2,449.7 | 84.6 | 81.3 | 88.0 |
| 7 | SAN MATEO | 9,007.3 | 7,557.7 | 83.9 | 82.0 | 85.8 |
| 8 | VENTURA | 10,490.7 | 8,765.0 | 83.6 | 81.8 | 85.3 |
| 9 | SANTA BARBARA | 5,700.0 | 4,739.7 | 83.2 | 80.8 | 85.5 |
| 10 | PLACER | 3,642.0 | 3,022.7 | 83.0 | 80.0 | 86.0 |
| 11 | YOLO | 2,412.0 | 1,970.7 | 81.7 | 78.1 | 85.3 |
| 12 | TULARE | 7,643.0 | 6,216.0 | 81.3 | 79.3 | 83.4 |
| 13 | SAN FRANCISCO | 8,933.7 | 7,222.0 | 80.8 | 79.0 | 82.7 |
| 14 | LOS ANGELES | 124,090.7 | 99,658.3 | 80.3 | 79.8 | 80.8 |
| 15 | SUTTER | 1,283.7 | 1,029.7 | 80.2 | 75.3 | 85.1 |
| 16 | MONO | 141.3 | 113.3 | 80.2 | 65.4 | 95.0 |
| 17 | SAN BENITO | 710.7 | 564.3 | 79.4 | 72.9 | 86.0 |
| 18 | CALAVERAS | 338.3 | 268.0 | 79.2 | 69.7 | 88.7 |
| 19 | RIVERSIDE | 29,988.3 | 23,727.0 | 79.1 | 78.1 | 80.1 |
| 20 | DEL NORTE | 309.0 | 244.3 | 79.1 | 69.2 | 89.0 |
| 21 | NAPA | 1,422.0 | 1,121.0 | 78.8 | 74.2 | 83.4 |
| 22 | EL DORADO | 1,542.3 | 1,215.3 | 78.8 | 74.4 | 83.2 |
| | CALIFORNIA | 487,115.3 | 383,041.0 | 78.6 | 78.4 | 78.9 |
| 23 | TUOLUMNE | 458.0 | 359.7 | 78.5 | 70.4 | 86.6 |
| 24 | BUTTE | 2,399.3 | 1,883.3 | 78.5 | 74.9 | 82.0 |
| 25 | YUBA | 1,194.7 | 937.0 | 78.4 | 73.4 | 83.5 |
| 26 | SONOMA | 5,052.7 | 3,961.0 | 78.4 | 76.0 | 80.8 |
| 27 | SACRAMENTO | 19,137.7 | 14,998.3 | 78.4 | 77.1 | 79.6 |
| 28 | GLENN | 387.7 | 303.3 | 78.2 | 69.4 | 87.1 |
| 29 | INYO | 216.7 | 169.3 | 78.2 | 66.4 | 89.9 |
| 30 | SISKIYOU | 455.3 | 355.0 | 78.0 | 69.9 | 86.1 |
| 31 | COLUSA | 302.3 | 235.7 | 77.9 | 68.0 | 87.9 |
| | HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: MICH-10.2 | | | 77.6 | | |
| 32 | ALAMEDA | 18,648.7 | 14,448.7 | 77.5 | 76.2 | 78.7 |
| 33 | CONTRA COSTA | 12,189.7 | 9,434.7 | 77.4 | 75.8 | 79.0 |
| 34 | SHASTA | 1,997.7 | 1,537.7 | 77.0 | 73.1 | 80.8 |
| 35 | SANTA CLARA | 23,680.0 | 18,207.7 | 76.9 | 75.8 | 78.0 |
| 36 | MENDOCINO | 1,027.0 | 780.3 | 76.0 | 70.7 | 81.3 |
| 37 | TEHAMA | 762.0 | 578.3 | 75.9 | 69.7 | 82.1 |
| 38 | NEVADA | 803.3 | 609.0 | 75.8 | 69.8 | 81.8 |
| 39 | HUMBOLDT | 1,449.7 | 1,096.0 | 75.6 | 71.1 | 80.1 |
| 40 | MONTEREY | 6,443.3 | 4,821.3 | 74.8 | 72.7 | 76.9 |
| 41 | SAN DIEGO | 44,160.0 | 32,733.7 | 74.1 | 73.3 | 74.9 |
| 42 | SAN BERNARDINO | 30,195.3 | 22,224.3 | 73.6 | 72.6 | 74.6 |
| 43 | KERN | 13,092.3 | 9,439.3 | 72.1 | 70.6 | 73.6 |
| 44 | SAN JOAQUIN | 9,768.0 | 7,015.3 | 71.8 | 70.1 | 73.5 |
| 45 | SOLANO | 5,153.3 | 3,564.3 | 69.2 | 66.9 | 71.4 |
| 46 | STANISLAUS | 7,109.0 | 4,886.7 | 68.7 | 66.8 | 70.7 |
| 47 | KINGS | 2,337.3 | 1,582.3 | 67.7 | 64.4 | 71.0 |
| 48 | MADERA | 2,244.3 | 1,503.3 | 67.0 | 63.6 | 70.4 |
| 49 | SIERRA | 17.0 | 11.0 | 64.7 * | 32.3 | 100.0 |
| 50 | LAKE | 718.3 | 462.3 | 64.4 | 58.5 | 70.2 |
| 51 | TRINITY | 104.7 | 66.3 | 63.4 | 49.0 | 80.6 |
| 52 | LASSEN | 287.0 | 179.0 | 62.4 | 53.2 | 71.5 |
| 53 | PLUMAS | 141.7 | 87.7 | 61.9 | 49.6 | 76.3 |
| 54 | MARIPOSA | 134.7 | 82.7 | 61.4 | 48.9 | 76.1 |
| 55 | MERCED | 4,049.7 | 2,440.3 | 60.3 | 57.9 | 62.7 |
| 56 | MODOC | 71.0 | 41.3 | 58.2 | 41.8 | 78.9 |
| 57 | ALPINE | 6.0 | 3.3 | 55.6 * | 12.8 | 100.0 |
| 58 | IMPERIAL | 2,881.7 | 1,449.3 | 50.3 | 47.7 | 52.9 |

* Rates are deemed unreliable based on fewer than 20 data elements.

Note: Counties were rank ordered first by decreasing percent 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

Source: State of California, Department of Public Health: 2012-2014 Birth Records.

BREASTFEEDING INITIATION DURING EARLY POSTPARTUM, 2012-2014



The percentage of breastfed infants in California was 92.9 where the feeding method was known. The percentage for California was based on a 2012 through 2014 three-year average of 401,467.3 breastfed infants and 431,943 births with a known feeding method.

Among counties with reliable percentages, the percentage of breastfed infants ranged from 98.8 in Marin County to 82.9 in Kings County, a factor of 1.2 to 1.

Fifty-six counties with reliable percentages and California as a whole met the Healthy People 2020 National Objective MICH-21.1 of increasing the proportion of mothers who breastfed in the early postpartum period, usually 24 to 48 hours since birth, to at least 81.9 percent of total births. An additional two counties with unreliable percentages met the objective.

Commensurable data for breastfed infants in California for the 2009-2011 period are unavailable.

**TABLE 28
BREASTFEEDING INITIATION DURING EARLY POSTPARTUM
RANKED BY THREE-YEAR AVERAGE BREASTFEEDING INITIATION PERCENTAGE
CALIFORNIA COUNTIES, 2012-2014**

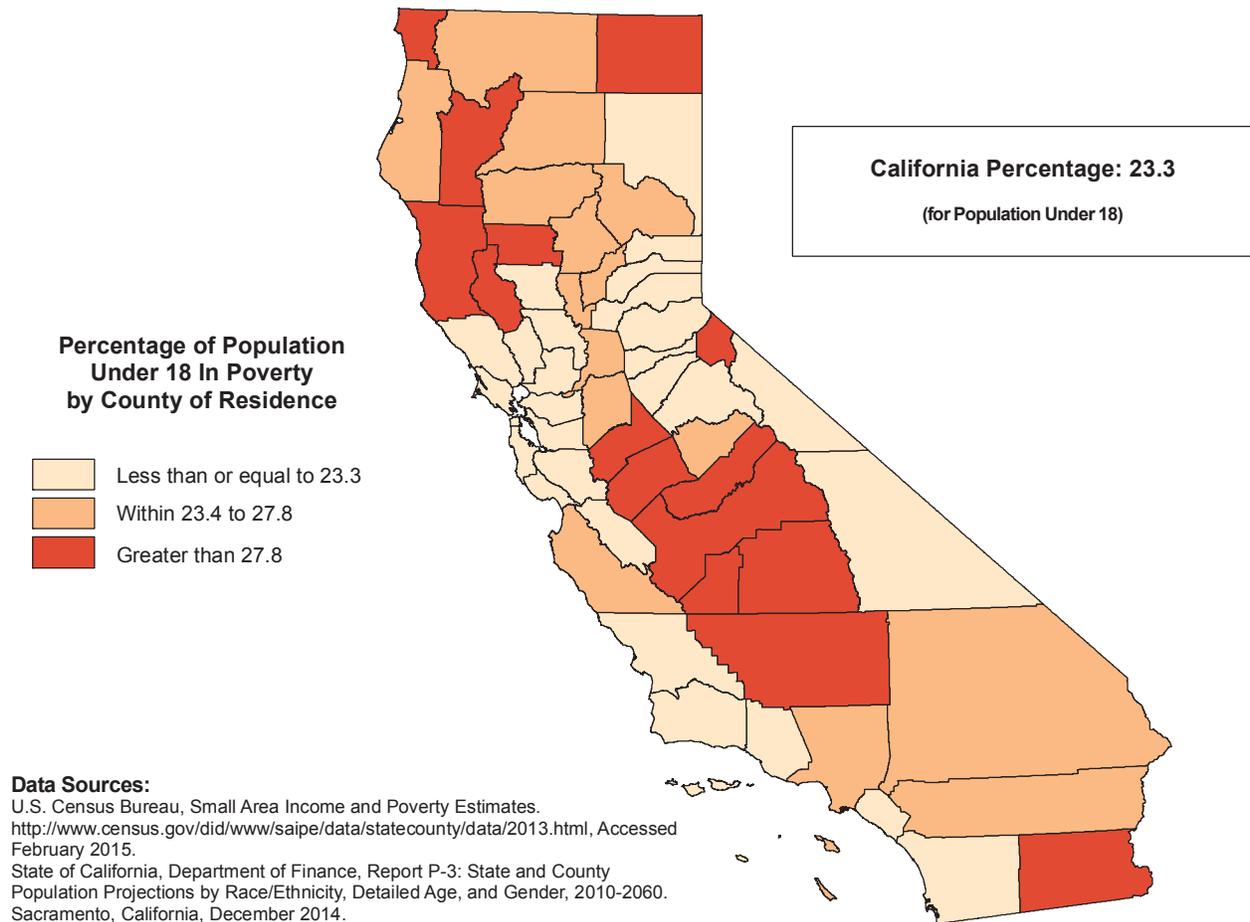
| RANK ORDER | COUNTY OF RESIDENCE | 2012-2014 BIRTHS (AVERAGE) WITH KNOWN FEEDING METHOD | | | 95% CONFIDENCE LIMITS | |
|------------|--|--|------------------|-------------|-----------------------|-------------|
| | | TOTAL NUMBER | BREASTFED | | LOWER | UPPER |
| | | | NUMBER | PERCENT | | |
| 1 | MARIN | 2,044.3 | 2,020.0 | 98.8 | 94.5 | 100.0 |
| 2 | SANTA CRUZ | 2,580.3 | 2,534.7 | 98.2 | 94.4 | 100.0 |
| 3 | INYO | 195.0 | 191.3 | 98.1 | 84.2 | 100.0 |
| 4 | SONOMA | 4,425.7 | 4,315.7 | 97.5 | 94.6 | 100.0 |
| 5 | NEVADA | 678.0 | 660.3 | 97.4 | 90.0 | 100.0 |
| 6 | SAN MATEO | 8,221.3 | 7,990.0 | 97.2 | 95.1 | 99.3 |
| 7 | NAPA | 1,221.7 | 1,186.7 | 97.1 | 91.6 | 100.0 |
| 8 | SAN LUIS OBISPO | 2,276.7 | 2,210.3 | 97.1 | 93.0 | 100.0 |
| 9 | ALAMEDA | 16,814.3 | 16,292.3 | 96.9 | 95.4 | 98.4 |
| 10 | MONTEREY | 5,568.3 | 5,392.7 | 96.8 | 94.3 | 99.4 |
| 11 | EL DORADO | 1,323.3 | 1,279.3 | 96.7 | 91.4 | 100.0 |
| 12 | SAN FRANCISCO | 7,913.3 | 7,649.7 | 96.7 | 94.5 | 98.8 |
| 13 | TRINITY | 100.0 | 96.7 | 96.7 | 78.4 | 100.0 |
| 14 | SANTA CLARA | 20,735.3 | 20,002.3 | 96.5 | 95.1 | 97.8 |
| 15 | CONTRA COSTA | 10,584.3 | 10,179.7 | 96.2 | 94.3 | 98.0 |
| 16 | MONO | 111.3 | 107.0 | 96.1 | 77.9 | 100.0 |
| 17 | YOLO | 2,222.7 | 2,134.3 | 96.0 | 92.0 | 100.0 |
| 18 | PLUMAS | 110.3 | 105.7 | 95.8 | 77.5 | 100.0 |
| 19 | MARIPOSA | 125.0 | 119.7 | 95.7 | 78.6 | 100.0 |
| 20 | MENDOCINO | 934.7 | 894.0 | 95.6 | 89.4 | 100.0 |
| 21 | SAN DIEGO | 33,978.3 | 32,496.7 | 95.6 | 94.6 | 96.7 |
| 22 | PLACER | 3,169.7 | 3,031.0 | 95.6 | 92.2 | 99.0 |
| 23 | TUOLUMNE | 387.3 | 370.0 | 95.5 | 85.8 | 100.0 |
| 24 | VENTURA | 9,142.0 | 8,727.3 | 95.5 | 93.5 | 97.5 |
| 25 | SANTA BARBARA | 4,930.3 | 4,698.7 | 95.3 | 92.6 | 98.0 |
| 26 | CALAVERAS | 294.7 | 280.0 | 95.0 | 83.9 | 100.0 |
| 27 | AMADOR | 253.3 | 240.7 | 95.0 | 83.0 | 100.0 |
| 28 | SHASTA | 1,769.0 | 1,678.7 | 94.9 | 90.4 | 99.4 |
| 29 | SAN BENITO | 612.3 | 579.0 | 94.6 | 86.9 | 100.0 |
| 30 | SOLANO | 4,084.7 | 3,854.0 | 94.4 | 91.4 | 97.3 |
| 31 | LASSEN | 234.3 | 221.0 | 94.3 | 81.9 | 100.0 |
| 32 | ORANGE | 34,269.3 | 32,218.0 | 94.0 | 93.0 | 95.0 |
| 33 | HUMBOLDT | 1,347.7 | 1,258.0 | 93.3 | 88.2 | 98.5 |
| 34 | TEHAMA | 755.3 | 704.0 | 93.2 | 86.3 | 100.0 |
| | CALIFORNIA | 431,942.7 | 401,467.3 | 92.9 | 92.7 | 93.2 |
| 35 | LOS ANGELES | 114,837.0 | 106,565.3 | 92.8 | 92.2 | 93.4 |
| 36 | GLENN | 356.0 | 329.0 | 92.4 | 82.4 | 100.0 |
| 37 | SISKIYOU | 326.7 | 301.0 | 92.1 | 81.7 | 100.0 |
| 38 | BUTTE | 2,150.3 | 1,979.0 | 92.0 | 88.0 | 96.1 |
| 39 | LAKE | 624.0 | 574.0 | 92.0 | 84.5 | 99.5 |
| 40 | RIVERSIDE | 25,939.7 | 23,829.3 | 91.9 | 90.7 | 93.0 |
| 41 | MADERA | 2,059.0 | 1,890.0 | 91.8 | 87.7 | 95.9 |
| 42 | SACRAMENTO | 17,087.0 | 15,631.0 | 91.5 | 90.0 | 92.9 |
| 43 | DEL NORTE | 293.7 | 267.3 | 91.0 | 80.1 | 100.0 |
| 44 | SIERRA | 11.0 | 10.0 | 90.9* | 43.6 | 100.0 |
| 45 | COLUSA | 265.3 | 240.3 | 90.6 | 79.1 | 100.0 |
| 46 | MERCED | 3,691.7 | 3,336.0 | 90.4 | 87.3 | 93.4 |
| 47 | SUTTER | 1,095.3 | 989.7 | 90.4 | 84.7 | 96.0 |
| 48 | ALPINE | 3.3 | 3.0 | 90.0* | 18.6 | 100.0 |
| 49 | IMPERIAL | 2,646.7 | 2,379.3 | 89.9 | 86.3 | 93.5 |
| 50 | MODOC | 23.7 | 21.0 | 88.7 | 54.9 | 100.0 |
| 51 | SAN JOAQUIN | 8,432.3 | 7,446.7 | 88.3 | 86.3 | 90.3 |
| 52 | SAN BERNARDINO | 26,023.7 | 22,960.3 | 88.2 | 87.1 | 89.4 |
| 53 | YUBA | 1,027.3 | 904.3 | 88.0 | 82.3 | 93.8 |
| 54 | STANISLAUS | 6,680.3 | 5,870.7 | 87.9 | 85.6 | 90.1 |
| 55 | TULARE | 6,754.3 | 5,920.3 | 87.7 | 85.4 | 89.9 |
| 56 | KERN | 12,253.0 | 10,711.0 | 87.4 | 85.8 | 89.1 |
| 57 | FRESNO | 14,083.3 | 12,044.3 | 85.5 | 84.0 | 87.0 |
| 58 | KINGS | 1,863.7 | 1,545.0 | 82.9 | 78.8 | 87.0 |
| | HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: MICH-21.1 | | | 81.9 | | |

* Rates are deemed unreliable based on fewer than 20 data elements.

Note: Counties were rank ordered first by decreasing breastfed percent (calculated to 15 decimal places), second by decreasing number of births.

Sources: State of California, Department of Public Health, Center for Family Health, Genetic Disease Screening Program, Newborn Screening Data, 2012-2014.
State of California, Department of Public Health, Center for Family Health, Maternal, Child and Adolescent Health Program.

PERSONS UNDER 18 IN POVERTY, 2013



Californians under 18 years of age in poverty represent 23.3 percent of the population of persons under 18 years of age. The percentage for California was based on the U.S. Census Bureau, American Community Survey 2013 estimate of persons under 18 years of age in poverty of 2,119,057 and a corresponding population count of 9,104,860 as of July 1, 2013.

All counties demonstrated reliable crude rates for persons under 18 years of age in poverty. The percentages ranged from 41.8 in Fresno County to 9.6 in Placer County, a factor of 4.4 to 1.

A Healthy People 2020 National Objective for persons under 18 years of age in poverty has not been established.

The California percentage of persons under 18 years of age in poverty in 2012 was 23.7.

**TABLE 29
PERSONS UNDER 18 IN POVERTY
RANKED BY PERCENTAGE OF CENSUS POPULATION UNDER 18 BELOW POVERTY
CALIFORNIA COUNTIES, 2013**

| RANK ORDER | COUNTY OF RESIDENCE | UNDER 18 YEARS OLD | | | 95% CONFIDENCE LIMITS | |
|--|------------------------|--------------------|------------------|-------------|-----------------------|-------------|
| | | 2013 POPULATION | IN POVERTY | | LOWER | UPPER |
| | | | NUMBER | PERCENT | | |
| HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: NOT ESTABLISHED | | | | | | |
| 1 | PLACER | 83,768 | 8,068 | 9.6 | 9.4 | 9.8 |
| 2 | SAN MATEO | 161,585 | 15,889 | 9.8 | 9.7 | 10.0 |
| 3 | MARIN | 51,067 | 5,417 | 10.6 | 10.3 | 10.9 |
| 4 | SANTA CLARA | 433,734 | 55,624 | 12.8 | 12.7 | 12.9 |
| 5 | CONTRA COSTA | 253,852 | 34,435 | 13.6 | 13.4 | 13.7 |
| 6 | SAN FRANCISCO | 116,086 | 15,760 | 13.6 | 13.4 | 13.8 |
| 7 | EL DORADO | 38,355 | 5,285 | 13.8 | 13.4 | 14.2 |
| 8 | NAPA | 30,367 | 4,207 | 13.9 | 13.4 | 14.3 |
| 9 | ALAMEDA | 342,375 | 52,179 | 15.2 | 15.1 | 15.4 |
| 10 | SONOMA | 103,321 | 16,308 | 15.8 | 15.5 | 16.0 |
| 11 | SAN LUIS OBISPO | 49,306 | 7,997 | 16.2 | 15.9 | 16.6 |
| 12 | SOLANO | 98,717 | 17,418 | 17.6 | 17.4 | 17.9 |
| 13 | YOLO | 44,760 | 7,921 | 17.7 | 17.3 | 18.1 |
| 14 | NEVADA | 17,356 | 3,072 | 17.7 | 17.1 | 18.3 |
| 15 | VENTURA | 203,845 | 36,357 | 17.8 | 17.7 | 18.0 |
| 16 | SANTA CRUZ | 56,687 | 10,223 | 18.0 | 17.7 | 18.4 |
| 17 | MONO | 2,895 | 524 | 18.1 | 16.6 | 19.6 |
| 18 | ORANGE | 716,913 | 134,278 | 18.7 | 18.6 | 18.8 |
| 19 | SAN BENITO | 15,504 | 2,907 | 18.8 | 18.1 | 19.4 |
| 20 | SAN DIEGO | 726,457 | 138,588 | 19.1 | 19.0 | 19.2 |
| 21 | COLUSA | 6,144 | 1,190 | 19.4 | 18.3 | 20.5 |
| 22 | LASSEN | 5,651 | 1,095 | 19.4 | 18.2 | 20.5 |
| 23 | SANTA BARBARA | 97,647 | 20,049 | 20.5 | 20.2 | 20.8 |
| 24 | SIERRA | 485 | 100 | 20.6 | 16.6 | 24.7 |
| 25 | TUOLUMNE | 9,101 | 1,927 | 21.2 | 20.2 | 22.1 |
| 26 | CALAVERAS | 7,910 | 1,689 | 21.4 | 20.3 | 22.4 |
| 27 | AMADOR | 5,596 | 1,235 | 22.1 | 20.8 | 23.3 |
| 28 | INYO | 3,864 | 894 | 23.1 | 21.6 | 24.7 |
| | CALIFORNIA | 9,104,860 | 2,119,057 | 23.3 | 23.2 | 23.3 |
| 29 | HUMBOLDT | 26,834 | 6,550 | 24.4 | 23.8 | 25.0 |
| 30 | RIVERSIDE | 599,477 | 146,552 | 24.4 | 24.3 | 24.6 |
| 31 | BUTTE | 44,928 | 11,074 | 24.6 | 24.2 | 25.1 |
| 32 | SUTTER | 25,602 | 6,372 | 24.9 | 24.3 | 25.5 |
| 33 | PLUMAS | 3,192 | 797 | 25.0 | 23.2 | 26.7 |
| 34 | MONTEREY | 108,728 | 27,175 | 25.0 | 24.7 | 25.3 |
| 35 | MARIPOSA | 2,925 | 754 | 25.8 | 23.9 | 27.6 |
| 36 | SACRAMENTO | 357,306 | 92,187 | 25.8 | 25.6 | 26.0 |
| 37 | SAN JOAQUIN | 195,488 | 51,577 | 26.4 | 26.2 | 26.6 |
| 38 | SAN BERNARDINO | 568,604 | 151,926 | 26.7 | 26.6 | 26.9 |
| 39 | LOS ANGELES | 2,329,990 | 624,784 | 26.8 | 26.7 | 26.9 |
| 40 | YUBA | 21,269 | 5,711 | 26.9 | 26.2 | 27.5 |
| 41 | SISKIYOU | 9,099 | 2,445 | 26.9 | 25.8 | 27.9 |
| 42 | TEHAMA | 15,462 | 4,250 | 27.5 | 26.7 | 28.3 |
| 43 | SHASTA | 38,532 | 10,702 | 27.8 | 27.2 | 28.3 |
| 44 | MENDOCINO | 19,130 | 5,329 | 27.9 | 27.1 | 28.6 |
| 45 | GLENN | 7,615 | 2,131 | 28.0 | 26.8 | 29.2 |
| 46 | KINGS | 39,831 | 11,605 | 29.1 | 28.6 | 29.7 |
| 47 | STANISLAUS | 143,603 | 43,722 | 30.4 | 30.2 | 30.7 |
| 48 | KERN | 251,148 | 77,009 | 30.7 | 30.4 | 30.9 |
| 49 | ALPINE | 247 | 76 | 30.8 | 24.2 | 38.5 |
| 50 | IMPERIAL | 50,474 | 15,594 | 30.9 | 30.4 | 31.4 |
| 51 | DEL NORTE | 5,852 | 1,880 | 32.1 | 30.7 | 33.6 |
| 52 | LAKE | 13,272 | 4,272 | 32.2 | 31.2 | 33.2 |
| 53 | MADERA | 41,893 | 13,563 | 32.4 | 31.8 | 32.9 |
| 54 | TRINITY | 2,337 | 780 | 33.4 | 31.0 | 35.7 |
| 55 | MODOC | 1,787 | 598 | 33.5 | 30.8 | 36.1 |
| 56 | MERCED | 78,913 | 26,870 | 34.1 | 33.6 | 34.5 |
| 57 | TULARE | 142,300 | 56,797 | 39.9 | 39.6 | 40.2 |
| 58 | FRESNO | 275,674 | 115,339 | 41.8 | 41.6 | 42.1 |

Note: 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 percent (calculated to 15 decimal places), second by decreasing population count.

Sources: U.S. Census Bureau, Small Area Income and Poverty Estimates. <http://www.census.gov/did/www/saie/data/statecounty/data/2013.html>, Accessed February 2015.

State of California, Department of Finance, Report P-3: State and County Population Projections by Race/Ethnicity, Detailed Age, and Gender, 2010-2060. Sacramento, California, December 2014.

**TABLE 30
A COMPARISON OF THREE-YEAR AVERAGE RATES OR PERCENTAGES
AMONG SELECTED HEALTH STATUS INDICATORS**

| COUNTY OF RESIDENCE | AGE-ADJUSTED DEATH RATES (THREE-YEAR AVERAGE) | | | | | |
|---------------------|---|--------------|-------------------|-------------|-------------|-------------|
| | ALL CANCERS | | COLORECTAL CANCER | | LUNG CANCER | |
| | 2009-2011 | 2012-2014 | 2009-2011 | 2012-2014 | 2009-2011 | 2012-2014 |
| CALIFORNIA | 154.6 | 146.5 | 14.5 | 13.3 | 36.1 | 31.7 |
| ALAMEDA | 149.7 | 140.5 | 13.8 | 12.6 | 34.7 | 30.7 |
| ALPINE | 249.1 * | 87.5 * | 25.8 * | - | 49.9 * | - |
| AMADOR | 170.4 | 156.0 | 11.5 * | 12.8 * | 47.0 | 45.7 |
| BUTTE | 179.7 | 168.0 | 14.0 | 14.2 | 44.7 | 44.6 |
| CALAVERAS | 161.9 | 157.9 | 14.6 * | 13.1 * | 42.4 | 40.5 |
| COLUSA | 166.9 | 113.0 | 10.4 * | 5.8 * | 59.1 * | 29.3 * |
| CONTRA COSTA | 152.8 | 145.6 | 15.5 | 13.0 | 35.7 | 33.9 |
| DEL NORTE | 193.6 | 163.9 | 15.8 * | 15.6 * | 60.1 * | 45.6 * |
| EL DORADO | 155.3 | 137.5 | 13.6 | 11.8 | 34.9 | 31.5 |
| FRESNO | 154.4 | 148.1 | 13.8 | 12.9 | 36.7 | 34.5 |
| GLENN | 165.3 | 165.4 | 10.9 * | 13.8 * | 42.8 * | 50.3 * |
| HUMBOLDT | 181.7 | 170.9 | 16.8 | 13.0 | 46.9 | 37.2 |
| IMPERIAL | 134.3 | 126.7 | 13.6 | 10.1 * | 27.0 | 26.1 |
| INYO | 120.5 | 120.1 | 13.5 * | 15.5 * | 34.5 * | 30.8 * |
| KERN | 159.7 | 158.2 | 13.5 | 13.0 | 40.4 | 39.3 |
| KINGS | 141.5 | 149.7 | 10.8 * | 13.8 * | 34.5 | 32.4 |
| LAKE | 183.7 | 193.2 | 14.5 * | 14.6 * | 55.0 | 55.8 |
| LASSEN | 136.3 | 109.4 | 12.3 * | 11.5 * | 32.1 * | 32.0 * |
| LOS ANGELES | 151.5 | 140.8 | 14.7 | 13.7 | 32.6 | 27.5 |
| MADERA | 151.5 | 139.2 | 15.7 | 13.4 * | 40.7 | 33.1 |
| MARIN | 140.9 | 121.9 | 12.4 | 8.2 | 31.5 | 25.3 |
| MARIPOSA | 141.6 | 131.9 | 5.0 * | 14.1 * | 47.6 * | 28.9 * |
| MENDOCINO | 169.4 | 160.2 | 15.0 * | 14.9 * | 45.3 | 37.1 |
| MERCED | 160.6 | 162.2 | 17.5 | 15.9 | 41.2 | 39.4 |
| MODOC | 171.1 | 142.1 | 27.0 * | 8.5 * | 40.0 * | 20.7 * |
| MONO | 71.2 * | 81.0 * | 3.9 * | 8.4 * | 19.3 * | 15.3 * |
| MONTEREY | 144.4 | 137.2 | 10.8 | 10.0 | 35.0 | 27.6 |
| NAPA | 179.1 | 158.7 | 17.5 | 10.9 * | 43.3 | 35.8 |
| NEVADA | 149.3 | 148.7 | 12.2 * | 12.7 | 34.4 | 31.4 |
| ORANGE | 145.8 | 138.3 | 12.4 | 11.9 | 33.7 | 29.3 |
| PLACER | 153.2 | 147.5 | 12.4 | 10.8 | 35.7 | 30.3 |
| PLUMAS | 155.6 | 128.8 | 16.2 * | 6.8 * | 33.4 * | 30.4 * |
| RIVERSIDE | 157.4 | 152.0 | 16.4 | 14.5 | 38.5 | 35.4 |
| SACRAMENTO | 171.2 | 166.9 | 15.5 | 15.5 | 44.5 | 40.7 |
| SAN BENITO | 150.6 | 133.8 | 12.3 * | 10.9 * | 31.7 * | 25.6 * |
| SAN BERNARDINO | 169.0 | 164.7 | 17.8 | 16.6 | 40.1 | 36.4 |
| SAN DIEGO | 158.6 | 151.7 | 14.2 | 13.5 | 36.8 | 33.2 |
| SAN FRANCISCO | 148.7 | 135.5 | 14.8 | 12.4 | 36.3 | 30.5 |
| SAN JOAQUIN | 168.2 | 170.3 | 14.2 | 16.2 | 47.0 | 41.1 |
| SAN LUIS OBISPO | 152.8 | 143.2 | 13.6 | 12.9 | 35.6 | 32.4 |
| SAN MATEO | 144.9 | 129.1 | 13.2 | 11.2 | 32.8 | 25.9 |
| SANTA BARBARA | 139.5 | 146.1 | 11.2 | 12.8 | 32.0 | 25.2 |
| SANTA CLARA | 137.9 | 127.1 | 13.4 | 10.9 | 28.5 | 26.2 |
| SANTA CRUZ | 144.0 | 136.3 | 13.3 | 11.9 | 27.8 | 25.8 |
| SHASTA | 196.9 | 178.8 | 18.5 | 15.7 | 50.4 | 44.7 |
| SIERRA | 84.4 * | 134.2 * | - | 5.9 * | 22.5 * | 34.3 * |
| SISKIYOU | 191.1 | 175.5 | 16.6 * | 12.1 * | 52.9 | 39.8 |
| SOLANO | 175.8 | 175.1 | 15.5 | 16.4 | 43.3 | 42.1 |
| SONOMA | 166.8 | 154.4 | 15.4 | 13.6 | 40.5 | 34.0 |
| STANISLAUS | 161.8 | 172.3 | 16.3 | 17.7 | 41.9 | 39.5 |
| SUTTER | 158.1 | 148.6 | 11.2 * | 8.3 * | 52.0 | 42.6 |
| TEHAMA | 181.5 | 194.4 | 15.6 * | 18.9 * | 52.5 | 54.0 |
| TRINITY | 190.8 | 159.2 | 14.7 * | 15.1 * | 58.6 * | 37.9 * |
| TULARE | 159.2 | 145.7 | 14.2 | 11.8 | 44.0 | 35.3 |
| TUOLUMNE | 151.9 | 159.9 | 15.4 * | 14.2 * | 40.4 | 31.8 |
| VENTURA | 147.9 | 142.1 | 14.8 | 12.9 | 32.0 | 26.9 |
| YOLO | 154.4 | 155.5 | 14.2 | 12.4 | 33.7 | 33.3 |
| YUBA | 192.4 | 172.3 | 17.7 * | 15.0 * | 60.5 | 46.9 |

* Rates are deemed unreliable based on fewer than 20 data elements.

- Rates are not calculated for zero events.

Note: Age-adjusted death rates are per 100,000 population and exclude multiple causes of death.

**TABLE 30 (CONTINUED)
A COMPARISON OF THREE-YEAR AVERAGE RATES OR PERCENTAGES
AMONG SELECTED HEALTH STATUS INDICATORS**

| COUNTY OF RESIDENCE | AGE-ADJUSTED DEATH RATES (THREE-YEAR AVERAGE) | | | | | |
|---------------------|---|-------------|-----------------|-------------|-------------|-------------|
| | FEMALE BREAST CANCER | | PROSTATE CANCER | | DIABETES | |
| | 2009-2011 | 2012-2014 | 2009-2011 | 2012-2014 | 2009-2011 | 2012-2014 |
| CALIFORNIA | 21.2 | 20.3 | 21.2 | 19.3 | 19.9 | 20.4 |
| ALAMEDA | 20.8 | 19.0 | 22.6 | 17.7 | 19.6 | 21.1 |
| ALPINE | - | 49.4 * | 103.4 * | - | 19.0 * | - |
| AMADOR | 37.1 * | 20.5 * | 21.5 * | 13.9 * | 6.8 * | 7.8 * |
| BUTTE | 26.0 | 18.6 | 25.2 | 23.6 | 15.5 | 18.0 |
| CALAVERAS | 26.6 * | 17.0 * | 18.2 * | 17.0 * | 14.4 * | 14.9 * |
| COLUSA | 23.0 * | 19.9 * | 22.2 * | 12.3 * | 4.0 * | 14.8 * |
| CONTRA COSTA | 21.3 | 20.9 | 20.8 | 18.6 | 16.7 | 16.2 |
| DEL NORTE | 25.3 * | 16.8 * | 21.1 * | 23.2 * | 18.3 * | 14.8 * |
| EL DORADO | 19.8 | 18.6 | 17.4 * | 18.5 * | 13.7 | 7.7 * |
| FRESNO | 18.4 | 21.1 | 19.0 | 16.8 | 28.5 | 28.4 |
| GLENN | 19.2 * | 15.2 * | 19.9 * | 8.8 * | 27.9 * | 27.6 * |
| HUMBOLDT | 23.9 | 24.6 | 22.7 * | 23.5 * | 25.7 | 23.7 |
| IMPERIAL | 17.9 * | 16.2 * | 22.8 * | 21.6 * | 31.1 | 27.6 |
| INYO | 27.0 * | 7.1 * | 26.7 * | 10.8 * | 9.5 * | 18.2 * |
| KERN | 22.4 | 22.1 | 23.5 | 23.5 | 31.9 | 34.4 |
| KINGS | 21.0 * | 19.5 * | 18.8 * | 22.3 * | 29.9 | 30.3 |
| LAKE | 24.9 * | 22.3 * | 24.2 * | 21.8 * | 17.6 * | 16.7 * |
| LASSEN | 8.7 * | 6.9 * | 7.0 * | 13.4 * | 22.0 * | 19.4 * |
| LOS ANGELES | 21.8 | 21.0 | 21.3 | 18.6 | 22.0 | 22.3 |
| MADERA | 11.4 * | 17.9 * | 18.6 * | 17.5 * | 15.0 | 18.9 |
| MARIN | 18.0 | 18.8 | 19.1 | 15.2 | 8.3 | 7.7 |
| MARIPOSA | 10.1 * | 19.6 * | 18.2 * | 20.9 * | 9.2 * | 18.0 * |
| MENDOCINO | 26.6 * | 20.8 * | 17.1 * | 19.8 * | 14.9 * | 17.0 |
| MERCED | 18.5 | 19.7 | 20.6 * | 20.3 * | 25.7 | 28.0 |
| MODOC | 19.0 * | 34.4 * | 15.0 * | 4.4 * | 7.0 * | 25.3 * |
| MONO | 6.5 * | 16.9 * | 12.2 * | 8.0 * | 3.9 * | 12.7 * |
| MONTEREY | 18.4 | 19.4 | 21.0 | 19.7 | 16.0 | 20.5 |
| NAPA | 19.9 * | 15.1 * | 25.0 * | 23.5 * | 15.3 | 11.5 |
| NEVADA | 15.4 * | 24.0 | 24.1 * | 19.5 * | 10.1 * | 8.4 * |
| ORANGE | 19.6 | 19.1 | 20.3 | 17.9 | 14.0 | 14.3 |
| PLACER | 25.6 | 18.8 | 17.3 | 22.2 | 12.3 | 14.5 |
| PLUMAS | 16.2 * | 22.9 * | 22.9 * | 18.3 * | 14.7 * | 10.0 * |
| RIVERSIDE | 21.7 | 20.5 | 22.3 | 19.7 | 19.5 | 19.1 |
| SACRAMENTO | 21.6 | 20.9 | 21.7 | 21.0 | 20.0 | 23.7 |
| SAN BENITO | 21.5 * | 13.5 * | 25.8 * | 26.5 * | 15.0 * | 16.6 * |
| SAN BERNARDINO | 24.2 | 24.1 | 25.4 | 24.0 | 33.6 | 32.4 |
| SAN DIEGO | 22.3 | 20.7 | 23.4 | 21.3 | 18.8 | 18.8 |
| SAN FRANCISCO | 17.0 | 17.2 | 16.5 | 13.9 | 10.7 | 11.8 |
| SAN JOAQUIN | 22.8 | 21.9 | 21.0 | 24.0 | 28.8 | 28.1 |
| SAN LUIS OBISPO | 20.5 | 23.7 | 20.1 | 18.9 | 13.4 | 12.7 |
| SAN MATEO | 19.0 | 19.4 | 18.2 | 16.0 | 11.4 | 12.6 |
| SANTA BARBARA | 17.7 | 21.3 | 22.6 | 21.7 | 16.3 | 14.2 |
| SANTA CLARA | 18.6 | 16.1 | 16.8 | 15.9 | 22.5 | 21.9 |
| SANTA CRUZ | 23.2 | 20.4 | 22.1 | 17.4 | 14.5 | 15.5 |
| SHASTA | 21.5 | 20.7 | 27.7 | 23.5 | 13.6 | 18.7 |
| SIERRA | 8.3 * | 8.2 * | 27.4 * | 47.6 * | 13.5 * | 15.7 * |
| SISKIYOU | 24.0 * | 32.9 * | 24.5 * | 32.8 * | 22.1 * | 21.0 * |
| SOLANO | 24.1 | 21.9 | 24.3 | 23.9 | 23.2 | 25.8 |
| SONOMA | 25.7 | 21.2 | 20.5 | 19.9 | 15.7 | 17.7 |
| STANISLAUS | 19.8 | 22.1 | 19.0 | 21.9 | 22.4 | 21.6 |
| SUTTER | 17.7 * | 15.6 * | 20.6 * | 16.3 * | 16.5 * | 22.4 |
| TEHAMA | 16.4 * | 22.2 * | 24.8 * | 19.4 * | 18.0 * | 24.9 * |
| TRINITY | 19.7 * | 16.0 * | 21.2 * | 5.2 * | 6.9 * | 12.4 * |
| TULARE | 17.7 | 20.6 | 20.3 | 21.1 | 24.4 | 26.7 |
| TUOLUMNE | 18.8 * | 18.6 * | 13.8 * | 16.3 * | 12.7 * | 15.9 * |
| VENTURA | 21.7 | 19.8 | 22.2 | 17.8 | 16.0 | 17.3 |
| YOLO | 17.9 * | 20.6 | 21.6 * | 21.3 * | 20.2 | 22.7 |
| YUBA | 19.5 * | 20.1 * | 18.8 * | 34.3 * | 27.1 * | 16.1 * |

* Rates are deemed unreliable based on fewer than 20 data elements.

- Rates are not calculated for zero events.

Note: Age-adjusted death rates are per 100,000 population and exclude multiple causes of death.

TABLE 30 (CONTINUED)
A COMPARISON OF THREE-YEAR AVERAGE RATES OR PERCENTAGES
AMONG SELECTED HEALTH STATUS INDICATORS

| COUNTY OF RESIDENCE | AGE-ADJUSTED DEATH RATES (THREE-YEAR AVERAGE) | | | | | |
|---------------------|---|-------------|------------------------|-------------|----------------------------------|-------------|
| | ALZHEIMER'S DISEASE | | CORONARY HEART DISEASE | | CEREBROVASCULAR DISEASE (STROKE) | |
| | 2009-2011 | 2012-2014 | 2009-2011 | 2012-2014 | 2009-2011 | 2012-2014 |
| CALIFORNIA | 29.5 | 30.1 | 109.2 | 96.6 | 37.2 | 34.4 |
| ALAMEDA | 25.1 | 26.6 | 84.1 | 69.4 | 38.0 | 34.4 |
| ALPINE | - | - | - | 38.0 * | - | 35.4 * |
| AMADOR | 29.3 * | 34.1 | 98.7 | 96.6 | 33.9 | 36.2 |
| BUTTE | 39.8 | 42.8 | 115.1 | 94.7 | 45.5 | 38.1 |
| CALAVERAS | 14.4 * | 17.1 * | 102.6 | 95.8 | 31.8 | 29.8 |
| COLUSA | 28.5 * | 14.7 * | 91.8 * | 72.6 * | 45.7 * | 27.4 * |
| CONTRA COSTA | 30.7 | 33.2 | 79.1 | 66.6 | 39.1 | 38.4 |
| DEL NORTE | 21.1 * | 13.2 * | 120.6 | 89.8 | 40.7 * | 40.5 * |
| EL DORADO | 32.7 | 26.1 | 90.3 | 83.1 | 25.4 | 22.3 |
| FRESNO | 32.7 | 35.1 | 120.0 | 113.2 | 46.0 | 45.5 |
| GLENN | 17.6 * | 22.6 * | 106.5 | 86.4 | 28.8 * | 36.2 * |
| HUMBOLDT | 27.6 | 26.3 | 95.0 | 106.0 | 52.0 | 62.2 |
| IMPERIAL | 14.8 | 9.2 * | 98.3 | 107.3 | 42.3 | 30.4 |
| INYO | 3.4 * | 1.7 * | 117.7 | 69.7 | 38.3 * | 31.9 * |
| KERN | 34.5 | 39.5 | 146.0 | 136.9 | 41.3 | 38.9 |
| KINGS | 33.4 | 35.5 | 119.2 | 96.5 | 39.1 | 32.5 |
| LAKE | 24.2 | 30.2 | 140.5 | 133.0 | 49.1 | 42.6 |
| LASSEN | 9.1 * | 10.7 * | 89.3 | 79.1 | 26.8 * | 24.9 * |
| LOS ANGELES | 24.3 | 26.0 | 128.6 | 113.6 | 35.9 | 32.8 |
| MADERA | 39.5 | 38.2 | 135.3 | 122.6 | 38.7 | 41.1 |
| MARIN | 34.1 | 35.3 | 60.5 | 56.2 | 29.3 | 24.6 |
| MARIPOSA | 23.7 * | 19.4 * | 83.3 | 115.3 | 37.9 * | 23.7 * |
| MENDOCINO | 15.0 * | 16.4 * | 115.3 | 99.7 | 31.6 | 37.9 |
| MERCED | 23.3 | 27.1 | 123.2 | 119.0 | 45.2 | 41.5 |
| MODOC | 15.4 * | 4.5 * | 122.1 * | 99.7 * | 44.2 * | 32.4 * |
| MONO | 13.5 * | 3.4 * | 56.8 * | 45.6 * | 12.0 * | 17.6 * |
| MONTEREY | 17.4 | 19.9 | 86.5 | 68.6 | 36.5 | 36.7 |
| NAPA | 31.0 | 28.8 | 91.4 | 77.4 | 39.1 | 34.3 |
| NEVADA | 25.3 | 36.4 | 88.5 | 91.1 | 35.7 | 29.2 |
| ORANGE | 33.0 | 34.6 | 100.8 | 91.7 | 35.2 | 33.9 |
| PLACER | 34.1 | 32.6 | 98.4 | 83.4 | 35.6 | 28.9 |
| PLUMAS | 19.1 * | 17.2 * | 99.2 | 86.2 | 29.1 * | 29.0 * |
| RIVERSIDE | 29.8 | 30.5 | 125.5 | 113.9 | 38.8 | 33.1 |
| SACRAMENTO | 27.1 | 29.1 | 116.1 | 105.6 | 40.0 | 39.8 |
| SAN BENITO | 12.0 * | 9.6 * | 68.2 | 64.9 | 39.7 * | 31.3 * |
| SAN BERNARDINO | 29.2 | 32.7 | 140.0 | 113.4 | 43.0 | 39.0 |
| SAN DIEGO | 36.5 | 36.0 | 99.6 | 88.8 | 33.9 | 32.2 |
| SAN FRANCISCO | 22.0 | 26.9 | 71.4 | 61.0 | 33.9 | 29.9 |
| SAN JOAQUIN | 36.8 | 53.0 | 123.8 | 106.3 | 45.3 | 45.8 |
| SAN LUIS OBISPO | 23.1 | 19.3 | 77.8 | 70.6 | 55.3 | 51.8 |
| SAN MATEO | 29.9 | 28.2 | 77.2 | 64.3 | 31.8 | 25.3 |
| SANTA BARBARA | 27.7 | 29.6 | 98.7 | 82.6 | 34.6 | 34.0 |
| SANTA CLARA | 37.9 | 18.9 | 74.3 | 66.0 | 27.8 | 25.6 |
| SANTA CRUZ | 32.1 | 34.2 | 88.8 | 76.0 | 34.4 | 28.9 |
| SHASTA | 36.7 | 43.6 | 116.4 | 118.6 | 44.6 | 43.1 |
| SIERRA | 13.8 * | - | 89.1 * | 67.9 * | 46.9 * | 21.6 * |
| SISKIYOU | 24.1 * | 28.4 | 108.8 | 94.6 | 45.0 | 36.6 |
| SOLANO | 48.6 | 42.1 | 87.0 | 71.5 | 37.2 | 38.2 |
| SONOMA | 38.4 | 40.3 | 97.1 | 80.3 | 39.0 | 34.2 |
| STANISLAUS | 38.1 | 40.8 | 154.8 | 146.3 | 44.2 | 44.7 |
| SUTTER | 23.9 | 18.5 * | 121.3 | 120.6 | 38.8 | 38.6 |
| TEHAMA | 29.2 | 26.4 | 102.5 | 105.6 | 50.3 | 44.6 |
| TRINITY | 23.7 * | 23.7 * | 112.7 | 95.3 | 16.5 * | 30.5 * |
| TULARE | 19.3 | 22.9 | 135.0 | 124.5 | 49.2 | 42.7 |
| TUOLUMNE | 13.9 * | 11.0 * | 99.3 | 92.8 | 34.5 | 30.4 |
| VENTURA | 27.9 | 31.7 | 96.7 | 79.8 | 36.3 | 32.6 |
| YOLO | 38.1 | 35.7 | 73.3 | 75.8 | 39.3 | 35.1 |
| YUBA | 20.8 * | 19.3 * | 145.3 | 146.5 | 46.2 | 50.1 |

* Rates are deemed unreliable based on fewer than 20 data elements.

- Rates are not calculated for zero events.

Note: Age-adjusted death rates are per 100,000 population and exclude multiple causes of death.

TABLE 30 (CONTINUED)
A COMPARISON OF THREE-YEAR AVERAGE RATES OR PERCENTAGES
AMONG SELECTED HEALTH STATUS INDICATORS

| COUNTY OF RESIDENCE | AGE-ADJUSTED DEATH RATES (THREE-YEAR AVERAGE) | | | | | |
|---------------------|---|-------------|-----------------------------------|-------------|-------------------------------------|-------------|
| | INFLUENZA/PNEUMONIA | | CHRONIC LOWER RESPIRATORY DISEASE | | CHRONIC LIVER DISEASE AND CIRRHOSIS | |
| | 2009-2011 | 2012-2014 | 2009-2011 | 2012-2014 | 2009-2011 | 2012-2014 |
| CALIFORNIA | 16.9 | 15.3 | 36.8 | 33.7 | 11.3 | 11.7 |
| ALAMEDA | 15.0 | 12.9 | 29.4 | 26.6 | 8.8 | 9.3 |
| ALPINE | - | - | - | - | - | - |
| AMADOR | 20.6 * | 25.0 * | 47.2 | 34.6 | 14.7 * | 13.0 * |
| BUTTE | 15.4 | 15.9 | 59.2 | 52.0 | 14.5 | 17.0 |
| CALAVERAS | 15.6 * | 16.7 * | 41.6 | 38.6 | 10.5 * | 10.8 * |
| COLUSA | 14.6 * | 6.8 * | 44.5 * | 35.8 * | 8.2 * | 14.7 * |
| CONTRA COSTA | 12.2 | 9.8 | 34.9 | 32.3 | 9.3 | 8.4 |
| DEL NORTE | 16.2 * | 22.7 * | 54.1 * | 55.0 * | 12.1 * | 16.2 * |
| EL DORADO | 13.5 | 11.6 | 39.8 | 35.4 | 8.5 | 14.0 |
| FRESNO | 23.8 | 21.0 | 36.2 | 35.1 | 14.9 | 14.7 |
| GLENN | 17.9 * | 20.6 * | 52.4 * | 49.9 * | 6.0 * | 14.7 * |
| HUMBOLDT | 11.7 * | 7.6 * | 56.0 | 52.9 | 15.0 | 22.7 |
| IMPERIAL | 11.9 * | 14.9 | 21.4 | 19.1 | 15.7 | 15.2 |
| INYO | 10.3 * | 5.8 * | 45.0 * | 41.9 * | 17.4 * | 12.0 * |
| KERN | 23.4 | 15.7 | 67.3 | 56.9 | 13.1 | 13.3 |
| KINGS | 16.3 * | 21.9 | 47.6 | 38.6 | 14.2 * | 18.1 |
| LAKE | 21.4 * | 18.7 * | 65.5 | 67.3 | 21.9 * | 24.6 |
| LASSEN | 9.5 * | 16.9 * | 36.3 * | 30.7 * | 5.6 * | 8.5 * |
| LOS ANGELES | 22.4 | 21.2 | 32.9 | 28.9 | 12.5 | 12.5 |
| MADERA | 17.6 | 15.0 | 42.4 | 42.3 | 14.3 | 18.9 |
| MARIN | 12.2 | 9.2 | 20.9 | 19.9 | 6.4 | 7.0 |
| MARIPOSA | 13.7 * | 9.4 * | 29.7 * | 42.9 * | 11.0 * | 14.1 * |
| MENDOCINO | 12.1 * | 14.0 * | 46.6 | 47.1 | 11.9 * | 16.7 * |
| MERCED | 14.3 | 17.4 | 46.6 | 42.5 | 14.2 | 16.2 |
| MODOC | 12.9 * | 18.1 * | 67.5 * | 64.7 * | 17.2 * | 11.3 * |
| MONO | 5.8 * | 5.5 * | 5.8 * | 9.8 * | 3.0 * | 11.0 * |
| MONTEREY | 11.3 | 12.1 | 29.8 | 27.7 | 11.0 | 9.6 |
| NAPA | 18.0 | 13.1 | 35.6 | 27.6 | 11.6 * | 9.5 * |
| NEVADA | 12.2 | 13.4 | 42.5 | 40.0 | 8.5 * | 11.1 * |
| ORANGE | 17.5 | 16.2 | 31.7 | 28.6 | 9.5 | 9.7 |
| PLACER | 14.0 | 9.8 | 36.9 | 33.0 | 8.8 | 10.6 |
| PLUMAS | 7.3 * | 14.8 * | 59.5 * | 40.5 * | 5.1 * | 18.5 * |
| RIVERSIDE | 12.5 | 11.4 | 45.5 | 43.2 | 11.6 | 12.7 |
| SACRAMENTO | 20.2 | 15.7 | 42.3 | 41.0 | 10.8 | 11.3 |
| SAN BENITO | 17.3 * | 22.7 * | 33.1 * | 28.9 * | 13.5 * | 9.5 * |
| SAN BERNARDINO | 11.7 | 14.4 | 56.2 | 54.9 | 12.6 | 14.7 |
| SAN DIEGO | 9.8 | 9.1 | 33.9 | 31.9 | 10.0 | 9.9 |
| SAN FRANCISCO | 16.4 | 11.9 | 21.5 | 18.8 | 8.7 | 7.8 |
| SAN JOAQUIN | 16.7 | 18.7 | 44.2 | 46.6 | 16.1 | 16.9 |
| SAN LUIS OBISPO | 10.8 | 9.4 | 37.3 | 33.4 | 11.0 | 14.0 |
| SAN MATEO | 19.7 | 13.7 | 27.1 | 22.2 | 9.7 | 8.7 |
| SANTA BARBARA | 13.1 | 10.9 | 27.7 | 25.3 | 11.1 | 12.4 |
| SANTA CLARA | 14.3 | 12.1 | 24.7 | 22.2 | 9.2 | 8.2 |
| SANTA CRUZ | 13.8 | 11.3 | 32.7 | 27.5 | 13.0 | 12.6 |
| SHASTA | 11.7 | 12.5 | 72.0 | 72.7 | 15.2 | 18.2 |
| SIERRA | 21.0 * | - | 57.6 * | 23.3 * | 27.0 * | 18.6 * |
| SISKIYOU | 14.0 * | 13.0 * | 57.4 | 56.4 | 17.4 * | 20.8 * |
| SOLANO | 21.6 | 17.5 | 43.3 | 40.4 | 11.6 | 10.5 |
| SONOMA | 8.8 | 8.9 | 40.2 | 34.9 | 11.3 | 12.1 |
| STANISLAUS | 19.1 | 17.7 | 48.3 | 47.0 | 13.2 | 14.9 |
| SUTTER | 17.4 * | 16.2 * | 54.7 | 48.8 | 12.3 * | 16.8 * |
| TEHAMA | 15.3 * | 16.0 * | 67.8 | 67.1 | 16.9 * | 19.2 * |
| TRINITY | 14.4 * | 8.8 * | 35.3 * | 45.0 * | 19.8 * | 26.5 * |
| TULARE | 23.8 | 23.3 | 50.1 | 44.9 | 14.6 | 18.3 |
| TUOLUMNE | 16.5 * | 13.8 * | 40.0 | 43.7 | 14.9 * | 14.9 * |
| VENTURA | 10.9 | 9.3 | 34.3 | 30.6 | 10.1 | 9.9 |
| YOLO | 22.9 | 14.2 | 53.4 | 44.6 | 12.2 | 14.4 |
| YUBA | 21.9 * | 21.4 * | 60.3 | 75.6 | 18.1 * | 15.2 * |

* Rates are deemed unreliable based on fewer than 20 data elements.

- Rates are not calculated for zero events.

Note: Age-adjusted death rates are per 100,000 population and exclude multiple causes of death.

**TABLE 30 (CONTINUED)
A COMPARISON OF THREE-YEAR AVERAGE RATES OR PERCENTAGES
AMONG SELECTED HEALTH STATUS INDICATORS**

| COUNTY OF RESIDENCE | AGE-ADJUSTED DEATH RATES (THREE-YEAR AVERAGE) | | | | | |
|---------------------|---|-------------|-------------------------------|------------|-------------|-------------|
| | ACCIDENTS (UNINTENTIONAL INJURIES) | | MOTOR VEHICLE TRAFFIC CRASHES | | SUICIDE | |
| | 2009-2011 | 2012-2014 | 2009-2011 | 2012-2014 | 2009-2011 | 2012-2014 |
| CALIFORNIA | 27.5 | 28.2 | 7.5 | 7.9 | 10.1 | 10.2 |
| ALAMEDA | 21.1 | 23.9 | 4.3 | 5.3 | 9.0 | 9.0 |
| ALPINE | 79.8 * | 33.3 * | 39.3 * | - | - | - |
| AMADOR | 57.3 | 44.7 | 16.9 * | 13.3 * | 24.5 * | 29.3 * |
| BUTTE | 61.4 | 61.6 | 13.1 | 10.7 | 19.4 | 15.5 |
| CALAVERAS | 51.0 | 41.4 | 23.5 * | 24.9 * | 24.4 * | 20.3 * |
| COLUSA | 35.1 * | 36.8 * | 17.6 * | 15.8 * | 16.6 * | 31.1 * |
| CONTRA COSTA | 25.7 | 25.4 | 6.1 | 5.6 | 10.8 | 9.5 |
| DEL NORTE | 60.4 * | 68.1 | 19.8 * | 25.1 * | 22.2 * | 23.4 * |
| EL DORADO | 38.4 | 43.6 | 8.7 * | 10.9 | 18.7 | 14.8 |
| FRESNO | 37.2 | 38.7 | 13.2 | 13.1 | 8.1 | 10.4 |
| GLENN | 64.7 * | 53.8 * | 18.5 * | 10.4 * | 9.3 * | 7.9 * |
| HUMBOLDT | 64.2 | 68.4 | 15.4 | 19.4 | 22.5 | 24.7 |
| IMPERIAL | 28.3 | 40.7 | 9.2 * | 12.9 | 7.2 * | 6.8 * |
| INYO | 28.1 * | 49.1 * | 3.7 * | 9.7 * | 20.2 * | 16.8 * |
| KERN | 42.0 | 44.6 | 13.3 | 13.2 | 11.4 | 13.2 |
| KINGS | 39.2 | 37.3 | 14.5 | 12.7 * | 7.3 * | 9.7 * |
| LAKE | 83.8 | 83.6 | 21.7 * | 21.8 * | 26.7 * | 25.8 * |
| LASSEN | 41.3 * | 47.4 * | 9.2 * | 11.4 * | 10.8 * | 21.0 * |
| LOS ANGELES | 19.9 | 21.0 | 6.2 | 6.7 | 7.8 | 7.6 |
| MADERA | 41.2 | 40.3 | 18.8 | 15.9 | 13.0 * | 15.4 |
| MARIN | 22.0 | 29.2 | 3.1 * | 4.1 * | 13.7 | 12.4 |
| MARIPOSA | 41.0 * | 60.8 * | 17.3 * | 21.3 * | 25.7 * | 31.9 * |
| MENDOCINO | 55.2 | 54.2 | 15.9 * | 17.1 * | 22.0 | 23.9 |
| MERCED | 40.6 | 46.5 | 13.3 | 16.0 | 12.6 | 9.4 |
| MODOC | 57.7 * | 77.7 * | 16.7 * | 22.8 * | 17.6 * | 23.0 * |
| MONO | 19.8 * | 35.1 * | 5.8 * | 14.4 * | 10.0 * | 9.9 * |
| MONTEREY | 29.8 | 30.6 | 8.2 | 7.5 | 8.8 | 9.2 |
| NAPA | 25.4 | 31.2 | 7.9 * | 8.3 * | 10.4 * | 12.0 * |
| NEVADA | 32.3 | 53.8 | 11.5 * | 14.7 * | 20.6 | 19.0 |
| ORANGE | 21.8 | 22.5 | 4.7 | 5.8 | 9.0 | 10.0 |
| PLACER | 26.9 | 26.9 | 7.2 | 6.0 | 14.5 | 11.3 |
| PLUMAS | 48.8 * | 72.2 * | 10.4 * | 12.3 * | 19.0 * | 22.8 * |
| RIVERSIDE | 31.1 | 32.0 | 9.4 | 10.0 | 9.8 | 10.7 |
| SACRAMENTO | 32.7 | 34.0 | 8.5 | 8.7 | 12.1 | 13.6 |
| SAN BENITO | 27.9 * | 42.9 | 11.2 * | 14.9 * | 10.2 * | 4.5 * |
| SAN BERNARDINO | 25.5 | 26.2 | 10.0 | 11.5 | 11.0 | 10.3 |
| SAN DIEGO | 30.3 | 30.8 | 6.6 | 6.4 | 11.4 | 12.7 |
| SAN FRANCISCO | 32.5 | 26.0 | 2.9 | 3.1 | 10.5 | 7.6 |
| SAN JOAQUIN | 43.1 | 37.5 | 11.4 | 10.2 | 10.2 | 11.4 |
| SAN LUIS OBISPO | 32.7 | 34.1 | 7.8 | 9.9 | 16.3 | 16.5 |
| SAN MATEO | 20.8 | 20.3 | 4.4 | 5.1 | 8.8 | 7.0 |
| SANTA BARBARA | 29.0 | 25.2 | 7.1 | 6.4 | 10.8 | 11.2 |
| SANTA CLARA | 22.7 | 22.8 | 5.1 | 5.6 | 8.3 | 7.9 |
| SANTA CRUZ | 32.4 | 34.2 | 5.1 * | 7.7 | 13.6 | 14.4 |
| SHASTA | 62.6 | 59.8 | 13.7 | 13.5 | 22.2 | 21.2 |
| SIERRA | 43.4 * | 26.2 * | - | - | 15.5 * | 24.3 * |
| SISKIYOU | 69.6 | 56.9 | 17.1 * | 17.5 * | 26.3 * | 23.7 * |
| SOLANO | 28.5 | 32.8 | 7.5 | 9.9 | 12.7 | 11.3 |
| SONOMA | 27.2 | 28.4 | 6.6 | 5.8 | 13.0 | 12.2 |
| STANISLAUS | 38.1 | 37.0 | 11.5 | 12.7 | 11.4 | 10.8 |
| SUTTER | 40.0 | 34.4 | 13.4 * | 14.4 * | 11.9 * | 16.7 * |
| TEHAMA | 58.8 | 55.3 | 19.8 * | 18.1 * | 17.9 * | 19.2 * |
| TRINITY | 63.0 * | 86.5 * | 19.6 * | 28.0 * | 24.2 * | 20.9 * |
| TULARE | 36.5 | 34.3 | 14.0 | 14.2 | 10.3 | 10.5 |
| TUOLUMNE | 59.4 | 53.6 | 17.5 * | 12.9 * | 22.9 * | 14.2 * |
| VENTURA | 27.2 | 29.3 | 7.4 | 6.8 | 11.3 | 11.2 |
| YOLO | 27.9 | 34.6 | 7.6 * | 9.7 | 8.2 * | 8.5 * |
| YUBA | 55.4 | 62.8 | 12.3 * | 12.7 * | 13.8 * | 16.0 * |

* Rates are deemed unreliable based on fewer than 20 data elements.

- Rates are not calculated for zero events.

Note: Age-adjusted death rates are per 100,000 population and exclude multiple causes of death.

TABLE 30 (CONTINUED)
A COMPARISON OF THREE-YEAR AVERAGE RATES OR PERCENTAGES
AMONG SELECTED HEALTH STATUS INDICATORS

| COUNTY OF RESIDENCE | AGE-ADJUSTED DEATH RATES (THREE-YEAR AVERAGE) | | | | | |
|---------------------|---|------------|------------------------|------------|---------------------|-------------|
| | HOMICIDE | | FIREARM-RELATED DEATHS | | DRUG-INDUCED DEATHS | |
| | 2009-2011 | 2012-2014 | 2009-2011 | 2012-2014 | 2009-2011 | 2012-2014 |
| CALIFORNIA | 5.2 | 5.0 | 7.8 | 7.6 | 11.0 | 11.3 |
| ALAMEDA | 8.2 | 7.6 | 10.3 | 9.2 | 9.3 | 9.6 |
| ALPINE | - | - | - | - | - | - |
| AMADOR | 4.9 * | 5.5 * | 15.4 * | 11.7 * | 26.8 * | 24.4 * |
| BUTTE | 4.5 * | 4.1 * | 11.5 | 10.1 | 35.8 | 30.7 |
| CALAVERAS | 1.5 * | 4.4 * | 13.5 * | 17.3 * | 34.4 * | 17.6 * |
| COLUSA | 6.9 * | 1.4 * | 14.7 * | 20.0 * | 3.6 * | 7.9 * |
| CONTRA COSTA | 8.4 | 6.2 | 11.4 | 9.3 | 9.9 | 11.7 |
| DEL NORTE | 8.5 * | 3.8 * | 16.1 * | 21.2 * | 12.6 * | 14.6 * |
| EL DORADO | 1.8 * | 3.1 * | 12.1 | 9.8 | 19.8 | 19.2 |
| FRESNO | 7.1 | 7.8 | 8.3 | 10.7 | 11.8 | 11.6 |
| GLENN | 1.2 * | 4.1 * | 10.1 * | 7.0 * | 26.1 * | 20.3 * |
| HUMBOLDT | 5.7 * | 6.0 * | 11.1 * | 13.8 | 36.2 | 33.9 |
| IMPERIAL | 1.7 * | 2.3 * | 5.5 * | 3.7 * | 10.4 * | 15.1 |
| INYO | 6.5 * | - | 19.7 * | 5.6 * | 7.7 * | 22.6 * |
| KERN | 8.6 | 8.6 | 11.8 | 12.1 | 18.2 | 22.0 |
| KINGS | 5.5 * | 5.0 * | 5.6 * | 4.7 * | 8.5 * | 12.9 * |
| LAKE | 6.5 * | 11.9 * | 16.6 * | 17.1 * | 45.6 | 43.6 |
| LASSEN | 4.5 * | 6.0 * | 9.8 * | 13.1 * | 20.6 * | 25.8 * |
| LOS ANGELES | 6.4 | 5.6 | 7.8 | 6.9 | 7.0 | 7.2 |
| MADERA | 5.7 * | 6.4 * | 9.5 * | 11.3 * | 12.1 * | 16.3 |
| MARIN | 2.7 * | 1.2 * | 5.9 * | 4.5 * | 11.2 | 10.9 |
| MARIPOSA | - | 9.0 * | 14.8 * | 23.0 * | 14.7 * | 27.4 * |
| MENDOCINO | 6.8 * | 3.8 * | 16.9 * | 14.8 * | 17.5 * | 19.1 * |
| MERCED | 7.8 | 9.5 | 9.7 | 11.2 | 12.1 | 14.3 |
| MODOC | 10.7 * | 21.1 * | 28.3 * | 31.4 * | 19.3 * | 37.9 * |
| MONO | - | - | 8.0 * | 4.0 * | 10.0 * | 7.3 * |
| MONTEREY | 10.1 | 9.5 | 11.0 | 11.8 | 10.1 | 12.4 |
| NAPA | 1.1 * | 1.1 * | 4.9 * | 5.8 * | 10.4 * | 10.4 * |
| NEVADA | 2.9 * | 1.8 * | 12.0 * | 11.4 * | 13.4 * | 22.4 |
| ORANGE | 2.5 | 1.9 | 4.7 | 4.7 | 10.3 | 10.8 |
| PLACER | 1.9 * | 2.3 * | 8.3 | 6.8 | 8.3 | 9.6 |
| PLUMAS | - | 6.5 * | 9.6 * | 15.7 * | 31.3 * | 43.4 * |
| RIVERSIDE | 4.2 | 4.4 | 6.9 | 7.5 | 11.8 | 14.2 |
| SACRAMENTO | 5.6 | 6.2 | 8.6 | 10.1 | 15.2 | 15.8 |
| SAN BENITO | 5.4 * | 4.0 * | 9.8 * | 3.3 * | 11.1 * | 10.2 * |
| SAN BERNARDINO | 6.0 | 6.4 | 8.9 | 9.2 | 9.9 | 10.3 |
| SAN DIEGO | 2.6 | 2.9 | 6.0 | 6.2 | 12.2 | 13.0 |
| SAN FRANCISCO | 5.7 | 3.9 | 5.7 | 3.8 | 19.7 | 13.9 |
| SAN JOAQUIN | 10.3 | 10.4 | 12.3 | 12.7 | 19.5 | 16.3 |
| SAN LUIS OBISPO | 1.9 * | 1.7 * | 8.0 | 9.5 | 14.5 | 13.6 |
| SAN MATEO | 3.4 | 2.2 * | 5.3 | 3.9 | 7.3 | 7.3 |
| SANTA BARBARA | 2.6 * | 2.6 * | 5.3 | 5.6 | 13.3 | 12.4 |
| SANTA CLARA | 2.6 | 2.9 | 4.2 | 4.4 | 6.9 | 7.6 |
| SANTA CRUZ | 3.8 * | 4.1 * | 7.2 * | 8.2 | 15.8 | 18.5 |
| SHASTA | 2.6 * | 6.2 * | 13.8 | 14.2 | 29.2 | 27.2 |
| SIERRA | - | - | 5.3 * | 15.1 * | 38.1 * | 17.7 * |
| SISKIYOU | 2.5 * | 4.6 * | 15.5 * | 16.1 * | 24.0 * | 17.4 * |
| SOLANO | 7.8 | 8.8 | 10.9 | 13.0 | 13.0 | 11.8 |
| SONOMA | 2.7 * | 1.6 * | 6.8 | 6.1 | 12.2 | 11.1 |
| STANISLAUS | 6.4 | 6.5 | 9.5 | 10.0 | 17.0 | 14.7 |
| SUTTER | 5.0 * | 3.8 * | 8.0 * | 14.1 * | 16.2 * | 12.8 * |
| TEHAMA | 5.5 * | 7.1 * | 11.8 * | 16.3 * | 13.5 * | 14.4 * |
| TRINITY | 7.0 * | 16.3 * | 18.2 * | 36.5 * | 11.1 * | 21.9 * |
| TULARE | 7.3 | 8.7 | 10.9 | 11.5 | 9.1 | 8.6 |
| TUOLUMNE | 2.6 * | 2.4 * | 12.4 * | 10.9 * | 30.4 * | 23.5 * |
| VENTURA | 2.5 | 3.4 | 5.6 | 7.2 | 11.8 | 14.0 |
| YOLO | 2.2 * | 2.4 * | 4.3 * | 5.0 * | 9.7 * | 12.4 |
| YUBA | 4.9 * | 5.2 * | 9.0 * | 8.8 * | 6.2 * | 10.5 * |

* Rates are deemed unreliable based on fewer than 20 data elements.

- Rates are not calculated for zero events.

Note: Age-adjusted death rates are per 100,000 population and exclude multiple causes of death.

TABLE 30 (CONTINUED)
A COMPARISON OF THREE-YEAR AVERAGE RATES OR PERCENTAGES
AMONG SELECTED HEALTH STATUS INDICATORS

| COUNTY OF RESIDENCE | MORBIDITY RATES (THREE-YEAR AVERAGE) | | | | | |
|---------------------|---|------------|---------------------------------|--------------|---|--------------|
| | REPORTED INCIDENCE OF AIDS AGES 13 AND OVER | | REPORTED INCIDENCE OF CHLAMYDIA | | REPORTED INCIDENCE OF FEMALE GONORRHEA AGES 15-44 | |
| | 2009-2011 | 2012-2014 | 2009-2011 | 2012-2014 | 2009-2011 | 2012-2014 |
| CALIFORNIA | 10.2 | 7.3 | 417.6 | 447.0 | 127.2 | 172.1 |
| ALAMEDA | 13.3 | 8.9 | 450.9 | 426.1 | 222.6 | 208.5 |
| ALPINE | - | - | 81.1 * | 190.0 * | - | - |
| AMADOR | 1.9 * | 3.0 * | 183.6 | 175.0 | 56.7 * | 77.2 * |
| BUTTE | 1.6 * | 1.9 * | 365.6 | 428.9 | 65.4 | 180.5 |
| CALAVERAS | 0.8 * | 2.5 * | 116.8 | 165.1 | 31.7 * | 68.1 * |
| COLUSA | - | 1.9 * | 117.1 | 148.6 | 8.1 * | 55.5 * |
| CONTRA COSTA | 8.3 | 4.8 | 370.7 | 373.8 | 211.1 | 216.1 |
| DEL NORTE | 2.7 * | - | 175.8 | 129.7 | 38.5 * | 54.7 * |
| EL DORADO | 2.2 * | 1.5 * | 132.4 | 165.4 | 26.9 * | 42.7 * |
| FRESNO | 10.3 | 7.0 | 628.7 | 622.2 | 244.7 | 422.7 |
| GLENN | 1.5 * | 1.4 * | 180.3 | 275.1 | 63.5 * | 75.8 * |
| HUMBOLDT | 1.7 * | 2.0 * | 270.0 | 302.4 | 51.2 * | 234.9 |
| IMPERIAL | 8.4 * | 5.4 * | 382.7 | 353.0 | 43.1 * | 66.7 |
| INYO | 2.1 * | 4.0 * | 159.4 | 356.9 | 46.0 * | 22.6 * |
| KERN | 7.9 | 5.1 | 633.6 | 718.4 | 271.0 | 352.0 |
| KINGS | 2.7 * | 3.2 * | 345.3 | 364.0 | 60.1 * | 147.2 |
| LAKE | 3.6 * | 3.6 * | 251.3 | 259.3 | 187.4 * | 292.3 |
| LASSEN | 1.1 * | 2.1 * | 161.8 | 204.0 | 14.8 * | 36.3 * |
| LOS ANGELES | 15.1 | 11.2 | 492.3 | 522.9 | 154.8 | 181.6 |
| MADERA | 4.1 * | 3.3 * | 453.8 | 449.8 | 148.9 | 223.4 |
| MARIN | 6.8 * | 3.6 * | 221.7 | 199.9 | 49.3 | 73.0 |
| MARIPOSA | 6.2 * | 4.1 * | 83.6 * | 156.5 | 12.8 * | 64.1 * |
| MENDOCINO | 2.7 * | 1.3 * | 268.0 | 367.0 | 66.8 * | 100.1 * |
| MERCED | 3.8 * | 2.6 * | 375.5 | 401.9 | 64.8 | 120.9 |
| MODOC | - | - | 44.2 * | 91.6 * | - | 21.8 * |
| MONO | 2.7 * | - | 197.6 | 166.9 | 12.0 * | 11.9 * |
| MONTEREY | 4.5 * | 4.2 * | 345.3 | 394.7 | 45.7 | 150.9 |
| NAPA | 5.5 * | 3.7 * | 195.5 | 244.1 | 39.5 * | 63.9 * |
| NEVADA | 1.2 * | 1.5 * | 136.1 | 193.6 | 33.8 * | 56.5 * |
| ORANGE | 6.8 | 5.0 | 268.0 | 285.9 | 45.8 | 72.7 |
| PLACER | 1.9 * | 0.7 * | 186.2 | 224.9 | 51.4 | 84.4 |
| PLUMAS | - | - | 235.5 | 291.1 | - | 24.3 * |
| RIVERSIDE | 7.4 | 6.5 | 336.9 | 394.1 | 80.7 | 125.1 |
| SACRAMENTO | 8.4 | 5.1 | 587.9 | 553.6 | 312.1 | 349.5 |
| SAN BENITO | 3.8 * | - | 318.6 | 326.6 | 50.4 * | 112.6 * |
| SAN BERNARDINO | 7.2 | 6.0 | 444.8 | 539.3 | 143.3 | 238.3 |
| SAN DIEGO | 11.7 | 8.8 | 482.1 | 505.6 | 84.5 | 125.2 |
| SAN FRANCISCO | 42.3 | 26.5 | 558.5 | 637.8 | 115.6 | 123.9 |
| SAN JOAQUIN | 7.4 | 4.8 | 531.3 | 499.2 | 229.7 | 289.8 |
| SAN LUIS OBISPO | 3.0 * | 3.2 * | 264.4 | 353.9 | 32.7 * | 64.7 |
| SAN MATEO | 4.4 | 3.4 | 264.5 | 262.7 | 41.5 | 52.7 |
| SANTA BARBARA | 3.2 * | 2.6 * | 348.6 | 434.5 | 34.6 | 83.8 |
| SANTA CLARA | 8.2 | 4.4 | 312.1 | 312.5 | 60.7 | 108.6 |
| SANTA CRUZ | 4.0 * | 2.8 * | 273.0 | 341.3 | 42.6 | 94.1 |
| SHASTA | 0.9 * | 2.2 * | 271.1 | 345.7 | 84.4 | 407.8 |
| SIERRA | - | - | 90.4 * | 81.5 * | 153.6 * | 82.9 * |
| SISKIYOU | 2.6 * | 5.1 * | 185.1 | 182.1 | 70.3 * | 110.3 * |
| SOLANO | 6.2 | 5.4 * | 462.1 | 500.4 | 222.8 | 267.8 |
| SONOMA | 5.9 | 3.6 * | 246.7 | 310.6 | 38.8 | 82.0 |
| STANISLAUS | 4.6 * | 3.6 * | 354.1 | 391.5 | 65.6 | 208.6 |
| SUTTER | 1.3 * | 1.3 * | 239.1 | 291.6 | 65.5 * | 147.9 |
| TEHAMA | 1.9 * | - | 258.5 | 313.2 | 36.1 * | 226.5 |
| TRINITY | 2.7 * | 2.7 * | 95.6 * | 99.2 * | 17.6 * | 86.4 * |
| TULARE | 3.4 * | 4.1 * | 373.2 | 493.9 | 51.7 | 127.3 |
| TUOLUMNE | 4.1 * | 2.1 * | 179.0 | 170.3 | 66.0 * | 113.4 * |
| VENTURA | 3.2 | 2.9 | 287.7 | 302.8 | 47.5 | 90.2 |
| YOLO | 3.1 * | 1.7 * | 281.7 | 334.9 | 41.1 | 105.8 |
| YUBA | 1.8 * | 2.3 * | 300.7 | 293.9 | 80.8 * | 188.7 |

* Rates are deemed unreliable based on fewer than 20 data elements.

- Rates are not calculated for zero events.

Note: The morbidity rates are crude case rates per 100,000 population.

**TABLE 30 (CONTINUED)
A COMPARISON OF THREE-YEAR AVERAGE RATES OR PERCENTAGES
AMONG SELECTED HEALTH STATUS INDICATORS**

| COUNTY OF RESIDENCE | MORBIDITY RATES (THREE-YEAR AVERAGE) | | | | MORTALITY RATE (THREE-YEAR AVERAGE) | |
|---------------------|--|--------------|---------------------------------------|------------|--|------------|
| | REPORTED INCIDENCE OF MALE GONORRHEA AGES 15-44 | | REPORTED INCIDENCE OF TUBERCULOSIS | | INFANT MORTALITY ALL RACE/ETHNIC GROUPS | |
| | 2009-2011 | 2012-2014 | 2009-2011 | 2012-2014 | 2008-2010 | 2011-2013 |
| CALIFORNIA | 165.5 | 255.6 | 6.4 | 5.7 | 5.0 | 4.7 |
| ALAMEDA | 247.0 | 297.4 | 10.6 | 8.0 | 4.4 | 4.2 |
| ALPINE | - | - | - | - | - | - |
| AMADOR | 30.4 * | 31.2 * | 0.9 * | 0.9 * | 2.3 * | 4.9 * |
| BUTTE | 48.3 | 157.0 | 0.6 * | 2.1 * | 5.0 * | 5.6 * |
| CALAVERAS | 34.6 * | 92.7 * | 2.2 * | 1.5 * | 4.7 * | 3.0 * |
| COLUSA | 22.3 * | 58.5 * | 4.6 * | 3.0 * | 5.6 * | 5.4 * |
| CONTRA COSTA | 132.1 | 188.4 | 4.4 | 4.9 | 4.3 | 4.7 |
| DEL NORTE | - | 36.7 * | 1.2 * | - | 6.9 * | 7.3 * |
| EL DORADO | 19.2 * | 60.3 * | 0.9 * | 1.4 * | 4.8 * | 2.6 * |
| FRESNO | 179.0 | 301.7 | 6.0 | 4.3 | 6.7 | 7.6 |
| GLENN | 23.9 * | 41.6 * | 1.2 * | 4.7 * | 3.0 * | 5.2 * |
| HUMBOLDT | 47.3 * | 192.5 | 1.0 * | 2.2 * | 4.9 * | 6.5 * |
| IMPERIAL | 32.5 * | 62.5 | 16.5 | 19.5 | 4.3 * | 3.2 * |
| INYO | 31.5 * | 82.1 * | 1.8 * | - | 4.6 * | 3.0 * |
| KERN | 183.4 | 364.5 | 4.6 | 3.9 | 6.4 | 6.7 |
| KINGS | 34.2 * | 104.1 | 3.0 * | 3.1 * | 5.5 * | 5.9 * |
| LAKE | 139.8 * | 138.5 * | 1.5 * | 2.1 * | 7.0 * | 8.6 * |
| LASSEN | 10.8 * | 34.9 * | 1.0 * | 1.9 * | 6.2 * | 2.2 * |
| LOS ANGELES | 244.0 | 362.0 | 7.4 | 6.6 | 5.1 | 4.6 |
| MADERA | 57.3 * | 179.0 | 5.1 * | 5.2 * | 5.4 * | 5.9 * |
| MARIN | 92.9 | 94.6 | 4.9 * | 4.8 * | 3.3 * | 3.7 * |
| MARIPOSA | - | 70.7 * | - | - | 6.7 * | 7.0 * |
| MENDOCINO | 35.9 * | 58.2 * | 1.9 * | 1.5 * | 7.5 * | 4.9 * |
| MERCED | 53.7 | 115.9 | 3.0 * | 4.7 * | 5.9 | 5.0 |
| MODOC | - | 58.3 * | - | - | 6.8 * | 8.8 * |
| MONO | 9.8 * | 69.2 * | - | - | 8.6 * | 4.6 * |
| MONTEREY | 46.6 | 141.3 | 5.0 | 4.1 * | 4.8 | 4.8 |
| NAPA | 30.1 * | 66.4 * | 4.8 * | 2.1 * | 6.0 * | 3.8 * |
| NEVADA | 12.5 * | 49.7 * | 0.3 * | 0.3 * | 3.3 * | 4.6 * |
| ORANGE | 86.8 | 131.3 | 7.0 | 6.1 | 4.0 | 3.6 |
| PLACER | 47.7 | 78.8 | 1.5 * | 1.5 * | 3.9 * | 4.9 * |
| PLUMAS | 55.4 * | 56.5 * | - | - | 2.0 * | 8.5 * |
| RIVERSIDE | 74.2 | 138.4 | 3.2 | 2.6 | 5.5 | 4.9 |
| SACRAMENTO | 251.2 | 310.7 | 5.6 | 5.0 | 5.7 | 5.2 |
| SAN BENITO | 32.1 * | 96.6 * | 2.4 * | 1.7 * | 4.8 * | 4.9 * |
| SAN BERNARDINO | 115.1 | 211.0 | 3.1 | 2.7 | 6.7 | 6.3 |
| SAN DIEGO | 164.7 | 226.4 | 7.6 | 6.9 | 4.6 | 4.2 |
| SAN FRANCISCO | 693.2 | 977.4 | 13.2 | 13.5 | 4.0 | 3.3 |
| SAN JOAQUIN | 184.2 | 261.3 | 8.1 | 6.7 | 6.4 | 6.3 |
| SAN LUIS OBISPO | 34.8 | 91.4 | 1.6 * | 1.2 * | 4.8 * | 6.1 * |
| SAN MATEO | 87.4 | 131.8 | 8.5 | 8.4 | 3.1 | 2.3 |
| SANTA BARBARA | 41.5 | 77.6 | 5.7 | 6.1 | 5.1 | 3.4 * |
| SANTA CLARA | 75.0 | 163.8 | 10.6 | 9.3 | 3.4 | 3.3 |
| SANTA CRUZ | 49.7 | 120.4 | 3.2 * | 2.1 * | 2.8 * | 4.6 * |
| SHASTA | 66.9 | 367.7 | 0.6 * | 1.3 * | 5.0 * | 5.9 * |
| SIERRA | - | 224.7 * | - | - | - | - |
| SISKIYOU | 69.8 * | 141.8 * | - | 0.7 * | 8.5 * | 4.9 * |
| SOLANO | 161.2 | 222.8 | 6.2 | 4.2 * | 6.2 | 5.0 |
| SONOMA | 55.0 | 99.5 | 2.1 * | 2.4 * | 4.5 | 3.6 * |
| STANISLAUS | 62.7 | 233.9 | 2.9 * | 1.9 * | 5.5 | 6.4 |
| SUTTER | 59.6 * | 123.0 | 3.5 * | 3.8 * | 5.9 * | 4.7 * |
| TEHAMA | 37.0 * | 215.6 | 1.6 * | - | 8.4 * | 4.4 * |
| TRINITY | 31.0 * | 15.5 * | - | - | 2.9 * | 2.9 * |
| TULARE | 40.8 | 143.1 | 5.3 | 3.3 * | 5.3 | 4.7 |
| TUOLUMNE | 21.3 * | 78.7 * | 0.6 * | - | 2.9 * | 4.4 * |
| VENTURA | 48.4 | 102.7 | 4.7 | 4.5 | 4.9 | 5.0 |
| YOLO | 54.8 | 151.4 | 3.8 * | 2.7 * | 3.2 * | 3.7 * |
| YUBA | 32.5 * | 143.1 | 0.9 * | 4.1 * | 5.6 * | 6.0 * |

* Rates are deemed unreliable based on fewer than 20 data elements.

- Rates are not calculated for zero events.

Note: The morbidity rates are crude case rates per 100,000 population.

The infant mortality rates are per 1,000 live births.

**TABLE 30 (CONTINUED)
A COMPARISON OF THREE-YEAR AVERAGE RATES OR PERCENTAGES
AMONG SELECTED HEALTH STATUS INDICATORS**

| COUNTY OF RESIDENCE | PERCENT (THREE-YEAR AVERAGE) | | AGE-SPECIFIC BIRTH RATE (THREE-YEAR AVERAGE) | | PERCENT (THREE-YEAR AVERAGE) | |
|---------------------|------------------------------|------------|--|-------------|-------------------------------|-------------|
| | LOW BIRTHWEIGHT INFANTS | | BIRTHS TO ADOLESCENT MOTHERS AGES 15 TO 19 YEARS OLD | | FIRST TRIMESTER PRENATAL CARE | |
| | 2009-2011 | 2012-2014 | 2009-2011 | 2012-2014 | 2009-2011 | 2012-2014 |
| CALIFORNIA | 6.8 | 6.7 | 31.5 | 23.4 | 83.3 | 83.5 |
| ALAMEDA | 7.2 | 7.3 | 21.9 | 14.9 | 87.3 | 90.1 |
| ALPINE | - | 15.8 * | 22.2 * | 33.3 * | 71.4 * | 38.9 * |
| AMADOR | 6.3 * | 7.2 | 19.3 * | 21.2 * | 87.5 | 86.5 |
| BUTTE | 5.7 | 6.2 | 24.8 | 20.2 | 72.7 | 74.9 |
| CALAVERAS | 4.6 * | 5.8 | 22.3 | 11.5 * | 79.3 | 79.7 |
| COLUSA | 5.8 * | 6.4 * | 39.9 | 32.3 | 71.5 | 71.4 |
| CONTRA COSTA | 6.9 | 6.8 | 19.7 | 13.1 | 83.4 | 86.0 |
| DEL NORTE | 5.0 * | 4.9 * | 57.9 | 41.7 | 73.7 | 75.7 |
| EL DORADO | 6.4 | 6.0 | 15.4 | 10.7 | 78.7 | 79.5 |
| FRESNO | 7.5 | 7.9 | 49.7 | 39.2 | 88.5 | 87.9 |
| GLENN | 5.8 | 7.2 | 43.3 | 31.7 | 68.7 | 66.7 |
| HUMBOLDT | 5.1 | 5.6 | 24.2 | 23.2 | 80.8 | 77.2 |
| IMPERIAL | 5.6 | 5.6 | 57.5 | 45.0 | 55.8 | 43.4 |
| INYO | 7.9 * | 8.0 * | 36.2 | 30.5 * | 79.1 | 77.6 |
| KERN | 7.2 | 7.0 | 57.4 | 45.1 | 75.9 | 76.1 |
| KINGS | 6.6 | 6.1 | 57.7 | 39.3 | 75.0 | 71.1 |
| LAKE | 6.3 | 6.8 | 41.8 | 34.7 | 66.5 | 70.9 |
| LASSEN | 7.1 | 7.0 | 36.3 | 24.8 | 74.2 | 78.0 |
| LOS ANGELES | 7.2 | 7.0 | 32.0 | 23.5 | 85.9 | 84.9 |
| MADERA | 6.6 | 6.0 | 54.5 | 42.9 | 75.4 | 72.8 |
| MARIN | 6.0 | 6.1 | 12.3 | 7.0 | 94.3 | 92.6 |
| MARIPOSA | 5.1 * | 7.4 * | 25.6 * | 24.5 * | 73.5 | 69.7 |
| MENDOCINO | 5.8 | 5.9 | 37.6 | 32.1 | 67.9 | 68.8 |
| MERCED | 6.8 | 6.3 | 44.9 | 36.4 | 64.3 | 64.5 |
| MODOC | 6.9 * | 6.1 * | 36.5 * | 14.0 * | 70.6 | 66.7 |
| MONO | 5.8 * | 8.6 * | 19.3 * | 21.0 * | 74.6 | 76.9 |
| MONTEREY | 5.8 | 5.9 | 49.1 | 37.0 | 73.4 | 73.9 |
| NAPA | 6.0 | 6.3 | 22.5 | 17.2 | 84.1 | 88.5 |
| NEVADA | 5.2 | 5.8 | 14.2 | 11.8 | 78.2 | 73.9 |
| ORANGE | 6.6 | 6.3 | 22.5 | 16.9 | 89.3 | 89.1 |
| PLACER | 5.6 | 5.6 | 12.7 | 8.6 | 85.7 | 83.0 |
| PLUMAS | 6.8 * | 6.7 * | 28.2 * | 13.2 * | 75.8 | 74.2 |
| RIVERSIDE | 6.4 | 6.6 | 32.4 | 24.0 | 84.4 | 83.8 |
| SACRAMENTO | 6.9 | 6.8 | 31.1 | 22.7 | 81.2 | 81.7 |
| SAN BENITO | 5.9 | 5.9 | 27.9 | 20.7 | 86.5 | 82.4 |
| SAN BERNARDINO | 7.1 | 7.3 | 39.8 | 30.0 | 82.6 | 83.4 |
| SAN DIEGO | 6.6 | 6.4 | 29.8 | 22.8 | 82.7 | 84.5 |
| SAN FRANCISCO | 6.9 | 7.0 | 13.8 | 11.7 | 88.1 | 88.9 |
| SAN JOAQUIN | 7.0 | 7.1 | 38.1 | 27.0 | 76.2 | 76.5 |
| SAN LUIS OBISPO | 5.5 | 5.9 | 16.5 | 14.9 | 79.4 | 80.3 |
| SAN MATEO | 6.9 | 6.7 | 18.3 | 12.2 | 89.5 | 90.2 |
| SANTA BARBARA | 6.0 | 6.1 | 33.4 | 25.8 | 73.1 | 76.8 |
| SANTA CLARA | 7.0 | 6.9 | 21.5 | 14.5 | 84.7 | 84.8 |
| SANTA CRUZ | 5.7 | 5.4 | 25.0 | 20.0 | 82.0 | 82.3 |
| SHASTA | 6.0 | 6.0 | 32.3 | 25.1 | 70.0 | 67.9 |
| SIERRA | 10.4 * | 7.4 * | 12.3 * | 17.1 * | 76.2 * | 68.6 * |
| SISKIYOU | 6.4 | 8.0 | 38.3 | 29.1 | 78.2 | 77.9 |
| SOLANO | 6.6 | 7.0 | 26.5 | 20.4 | 76.9 | 79.7 |
| SONOMA | 5.7 | 5.7 | 21.0 | 14.6 | 82.3 | 85.0 |
| STANISLAUS | 6.2 | 6.3 | 38.5 | 30.2 | 77.7 | 78.7 |
| SUTTER | 5.8 | 6.3 | 33.0 | 23.3 | 65.7 | 68.4 |
| TEHAMA | 5.7 | 6.0 | 41.4 | 32.6 | 67.9 | 69.7 |
| TRINITY | 4.3 * | 8.0 * | 39.9 * | 23.2 * | 57.9 | 56.6 |
| TULARE | 6.3 | 6.4 | 60.0 | 43.8 | 79.3 | 80.8 |
| TUOLUMNE | 3.9 * | 6.0 | 18.8 | 18.1 | 82.5 | 77.6 |
| VENTURA | 6.2 | 6.3 | 30.9 | 21.7 | 81.3 | 82.6 |
| YOLO | 5.4 | 5.7 | 17.4 | 12.9 | 81.1 | 83.2 |
| YUBA | 5.7 | 5.9 | 46.6 | 30.8 | 66.6 | 69.8 |

* Rates and percentages are deemed unreliable based on fewer than 20 data elements.

- Rates and percentages are not calculated for zero events.

Note: Age-specific birth rates are per 1,000 female population, ages 15 to 19.

**TABLE 30 (CONTINUED)
A COMPARISON OF THREE-YEAR AVERAGE RATES OR PERCENTAGES
AMONG SELECTED HEALTH STATUS INDICATORS**

| COUNTY OF RESIDENCE | PERCENT (THREE-YEAR AVERAGE) | |
|---------------------|---|-------------|
| | ADEQUATE/ADEQUATE PLUS PRENATAL CARE | |
| | 2009-2011 | 2012-2014 |
| CALIFORNIA | 79.7 | 78.6 |
| ALAMEDA | 78.7 | 77.5 |
| ALPINE | 78.6 * | 55.6 * |
| AMADOR | 87.9 | 85.4 |
| BUTTE | 76.1 | 78.5 |
| CALAVERAS | 82.0 | 79.2 |
| COLUSA | 79.5 | 77.9 |
| CONTRA COSTA | 75.9 | 77.4 |
| DEL NORTE | 80.9 | 79.1 |
| EL DORADO | 78.2 | 78.8 |
| FRESNO | 89.3 | 89.5 |
| GLENN | 78.1 | 78.2 |
| HUMBOLDT | 78.3 | 75.6 |
| IMPERIAL | 55.6 | 50.3 |
| INYO | 75.1 | 78.2 |
| KERN | 72.3 | 72.1 |
| KINGS | 72.6 | 67.7 |
| LAKE | 68.3 | 64.4 |
| LASSEN | 65.1 | 62.4 |
| LOS ANGELES | 83.4 | 80.3 |
| MADERA | 71.4 | 67.0 |
| MARIN | 84.2 | 89.3 |
| MARIPOSA | 72.4 | 61.4 |
| MENDOCINO | 75.5 | 76.0 |
| MERCED | 63.2 | 60.3 |
| MODOC | 64.2 | 58.2 |
| MONO | 82.5 | 80.2 |
| MONTEREY | 72.8 | 74.8 |
| NAPA | 75.5 | 78.8 |
| NEVADA | 77.7 | 75.8 |
| ORANGE | 88.3 | 87.6 |
| PLACER | 83.1 | 83.0 |
| PLUMAS | 71.0 | 61.9 |
| RIVERSIDE | 81.1 | 79.1 |
| SACRAMENTO | 78.6 | 78.4 |
| SAN BENITO | 79.4 | 79.4 |
| SAN BERNARDINO | 76.6 | 73.6 |
| SAN DIEGO | 74.0 | 74.1 |
| SAN FRANCISCO | 80.3 | 80.8 |
| SAN JOAQUIN | 71.9 | 71.8 |
| SAN LUIS OBISPO | 85.9 | 86.9 |
| SAN MATEO | 83.9 | 83.9 |
| SANTA BARBARA | 79.9 | 83.2 |
| SANTA CLARA | 78.0 | 76.9 |
| SANTA CRUZ | 84.1 | 84.6 |
| SHASTA | 74.5 | 77.0 |
| SIERRA | 68.3 * | 64.7 * |
| SISKIYOU | 76.2 | 78.0 |
| SOLANO | 66.3 | 69.2 |
| SONOMA | 74.5 | 78.4 |
| STANISLAUS | 71.0 | 68.7 |
| SUTTER | 77.8 | 80.2 |
| TEHAMA | 73.7 | 75.9 |
| TRINITY | 62.9 | 63.4 |
| TULARE | 78.7 | 81.3 |
| TUOLUMNE | 81.8 | 78.5 |
| VENTURA | 81.8 | 83.6 |
| YOLO | 79.0 | 81.7 |
| YUBA | 76.5 | 78.4 |

* Percentages are deemed unreliable based on fewer than 20 data elements.

TECHNICAL NOTES

DATA SOURCES

The Center for Health Statistics and Informatics, Vital Records, was the source for the birth and death data in this report. Data were tabulated from the Birth and Death Statistical Master Files for the years 2009 through 2013, which are based on the Statistical Master Files. For the data year 2014, the California Comprehensive Data File (CCDF) July extraction provided the source data. The CCDF provides continually evolving data refinement as warranted. However, based on the history of the death registration flow and in particular, cause of death code determinations, the July data extraction represents close to 100% of the year's final deaths. The linked births-deaths in the Birth Cohort-Perinatal Outcome Files for the years 2008 through 2013 are based on the Statistical Master Files. For additional information, please visit [Vital Statistics Data](#).

The [Division of Communicable Disease Control](#), [Sexually Transmitted Diseases Control Branch](#) and the [Tuberculosis Control Branch](#), were the sources for the reported case incidence of chlamydia, gonorrhea, and tuberculosis. The [Office of AIDS Surveillance Section](#), provided incidence data of diagnosed AIDS cases. The [Center for Family Health, Maternal, Child and Adolescent Health Program](#), prepared the breastfeeding initiation data, utilizing information collected by the [Genetic Disease Screening Program](#).

The [State of California, Department of Finance, Report P-3](#): State and County Population Projections by Race/Ethnicity, Detailed Age, and Gender, 2010-2060. Sacramento, California, December 2014, provided by the Demographic Research Unit, were used in the development of the age-adjusted rates, crude case rates, and age-specific birth rates for the current period (2012-2014) and previous period (2009-2011).

Estimates of persons under age 18 in poverty are obtained from the U.S. Census Bureau at <http://www.census.gov/did/www/saipe/data/statecounty/data/2013.html>.

Tables in this report may reflect small undercounts where case data were received late or vital event data were registered after the cutoff date for creation of the data files.

DATA DEFINITIONS

Mortality (Tables 1-19): Use of the consensus set of health status indicators has been facilitated by reference to the causes of mortality coded according to the ICD-10. Beginning with 1999 mortality data, the change to ICD-10 follows a worldwide standard created by the World Health Organization. Standards for ICD-10 implementation were set by the National Center for Health Statistics (NCHS).

A small number of non-traffic deaths have previously been reported along with traffic deaths in prior publication tables titled "Deaths Due to Motor Vehicle Crashes." A non-traffic accident is any vehicle accident that occurs entirely in some place other than a public highway. An average of 122 non-traffic deaths during 2012 through 2014 was not included in Table 15, which was re-titled "Deaths Due to Motor Vehicle Traffic Crashes." This change aligns the data for direct comparison with HP 2020 objectives.

Following is a list of the mortality tables in this report and the ICD-10 codes used to create these tables. The ICD-10 codes used to collect the mortality data for the tables, per Healthy People 2020 Objectives, where applicable, are current as of December 30, 2015.

| | | |
|-----------|--|---|
| Table 1: | All Causes of Death..... | A00-Y89 |
| Table 2: | All Cancers..... | C00-C97 |
| Table 3: | Colorectal Cancer..... | C18-C21, C26.0 |
| Table 4: | Lung Cancer..... | C34 |
| Table 5: | Female Breast Cancer..... | C50 |
| Table 6: | Prostate Cancer..... | C61 |
| Table 7: | Diabetes..... | E10-E14 |
| Table 8: | Alzheimer’s Disease..... | G30 |
| Table 9: | Coronary Heart Disease..... | I20-I25 |
| Table 10: | Cerebrovascular Disease (Stroke)..... | I60-I69 |
| Table 11: | Influenza/Pneumonia..... | J09-J18 |
| Table 12: | Chronic Lower Respiratory Disease..... | J40-J47 |
| Table 13: | Chronic Liver Disease and Cirrhosis..... | K70, K73-K74 |
| Table 14: | Accidents (Unintentional Injuries)..... | V01-X59, Y85-Y86 |
| Table 15: | Motor Vehicle Traffic Crashes..... | V02-V04 (.1, .9), V09.2, V12-V14 (.3-.9), V19 (.4-.6), V20-V28 (.3-.9), V29-V79 (.4-.9), V80 (.3-.5), V81.1, V82.1, V83-V86 (.0-.3), V87 (.0-.8), V89.2 |
| Table 16: | Suicide..... | U03, X60-X84, Y87.0 |
| Table 17: | Homicide..... | U01-U02, X85-Y09, Y87.1 |
| Table 18: | Firearm-Related Deaths..... | U01.4, W32-W34, X72-X74, X93-X95, Y22-Y24, Y35.0 |
| Table 19: | Drug-Induced Deaths..... | D52.1, D59.0, D59.2, D61.1, D64.2, E06.4, E16.0, E23.1, E24.2, E27.3, E66.1, F11.0-F11.5, F11.7-F11.9, F12.0-F12.5, F12.7-F12.9, F13.0-F13.5, F13.7-F13.9, F14.0-F14.5, F14.7-F14.9, F15.0-F15.5, F15.7-F15.9, F16.0-F16.5, F16.7-F16.9, F17.0, F17.3-F17.5, F17.7-F17.9, F18.0-F18.5, F18.7-F18.9, F19.0-F19.5, F19.7-F19.9, G21.1, G24.0, G25.1, G25.4, G25.6, G44.4, G62.0, G72.0, I95.2, J70.2-J70.4, L10.5, L27.0, L27.1, M10.2, M32.0, M80.4, M81.4, M83.5, M87.1, R78.1-R78.5, X40-X44, X60-X64, X85, Y10-Y14 |

Morbidity (Tables 20-23): In general, the case definition of a disease means laboratory test results, or in their absence, a constellation of clearly specified signs and symptoms that meet a series of clinical criteria. Centers for Disease Control and Prevention (CDC) online case definitions may be found at <http://www.cdc.gov//DiseasesConditions/>.

Due to incomplete reporting of infectious and communicable diseases by many health care providers, caution is advised in interpreting morbidity tables. Many factors contribute to the underreporting of these diseases. These factors include lack of awareness regarding disease surveillance; lack of follow-up by support staff assigned to report; failure to perform diagnostic lab tests to confirm or rule out infectious etiology; concern for anonymity of the client; and expedited treatment in lieu of waiting for laboratory results because of time or cost constraints. County designation depicts county of residence. Although table headings indicate the data shown are reported cases, please contact the Division of Communicable Disease Control and the Office of AIDS for complete morbidity reporting technical definitions and procedures.

The Healthy People 2020 objective HIV-4 to reduce new AIDS cases among adolescents and adults has been archived and is therefore not included in this report. For more information and a description of this change, please visit <http://www.healthypeople.gov>.

Birth Cohort Infant Mortality (Tables 24A-24E): 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 ([MacDorman and Mathews, 2008](#)).

Studies of infant mortality that are based on information from death certificates alone have been found to underestimate infant death rates for infants of all race/ethnic groups and especially for certain race/ethnic groups, due to problems such as confusion about event registration requirements, incomplete data, and transfers of newborns from one facility to another for medical care. Infant mortality rates 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 as well as more accurate race-specific infant mortality rates. The race used on the race-specific infant mortality tables reflected the race of the mother, thus the rate calculation's numerator and denominator reflect only the mother's race.

Because birth and death certificate registration data are included in the Birth Cohort-Perinatal Outcome Files after the Birth and Death Statistical Master Files have been closed to further processing and hospital follow-back is conducted to resolve questionable cases, cohort files cannot be as timely as the Statistical Master Files. However, the Birth Cohort-Perinatal Outcome Files are more complete and accurate. In the case of the 2012 and 2013 Birth Cohort-Perinatal Outcome Files, the files differ from previous Cohort files due to the absence of fetal deaths. Because the infant mortality rate does not include fetal deaths, this difference will likely have a negligible effect on the rate.

Race/Ethnicity: Tables 24A-24E align with the 1997 Office of Management and Budget (OMB) revised minimum standards for collecting, maintaining, and presenting data on race and ethnicity as described in the 1997 OMB Directive 15, which may be reviewed at URL: http://www.whitehouse.gov/omb/fedreg_1997standards. The mother's Hispanic origin was determined first, irrespective of race, and then the race categories for the

remaining non-Hispanics were determined. The Hispanic ethnic group includes any race, but is made up primarily of the White race. The remaining mother's race data were sorted as follows: two or more race groups (includes any combination of OMB race categories); American Indian/Alaska Native (includes Aleut, American Indian, and Eskimo); Asian/Pacific Islander (includes Asian Indian, Asian specified/unspecified, Cambodian, Chinese, Filipino, Guamanian, Hawaiian, Hmong, Japanese, Korean, Laotian, Samoan, Thai, Vietnamese, and Other Pacific Islander); Black (includes Blacks or African Americans); White (includes White and Other-specified); and Not Stated and Unknown (includes data for mothers who declined to state their race or for whom the data were not obtainable for other reasons).

Table 24B Asian/Pacific Islander Infant Mortality rates should not be compared with the Asian/Other Infant Mortality rates in reports issued prior to 2005 because these data now exclude the Aleut, American Indian, and Eskimo statistics previously reported in this table that could impact rates for these small numbers. In contrast, while Table 24E White Infant Mortality now excludes data for the Not Stated and Unknown race groups included in previous reports, the relatively small number of these events in this large group may not substantially impact a county's rate. American Indian/Alaska Native and Not Stated/Unknown race groups are not shown independently due to unreliable rates, but are included in Table 24A Infant Mortality, All Race/Ethnic Groups.

Effective with the 2000 data year, California began collecting up to three races on birth and death certificates. To permit comparison with race data found in the Birth Cohort-Perinatal Outcome Files for the 1999 and prior data years, which identify only a single race for the mother, first listed race was used in reports issued 2003 through 2006. Race/ethnic groups in reports issued since 2007 are compiled using the multi-race (two or more races) indicator as stated above, thus slight reductions may occur in total numbers previously reported for single races. Since the two or more races group is currently very small, the impact of this change should be negligible.

Nativity (Tables 25-27B): The nativity data were obtained from Birth Statistical Master Files for 2011 through 2013. Records with unknown attributes were excluded from the total number of live births in developing certain tables, as follows: Table 25 excludes unknown birthweights; Table 27A excludes unknown prenatal care; and Table 27B excludes unknown adequacy of prenatal care.

Low birthweight has been associated with negative birth outcomes, and may be an indicator of access problems and/or the 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 an indicator for other high-risk pregnancy factors ([Hamilton, Mathews, & Ventura, 2013](#)). Adolescent birth rate is defined as the number of births to mothers 15 to 19 years of age per 1,000 female population.

The prenatal care indicator, Month Prenatal Care Began, has been associated with access to care. 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 throughout the pregnancy. Therefore, in addition to Prenatal Care Begun During The First Trimester of Pregnancy, this report includes adequacy of prenatal care based on the Adequacy of Prenatal Care Utilization

Index. For further information on the Adequacy of Prenatal Care Utilization Index, see the "*American Journal of Public Health*" article by Kotelchuck listed in the bibliography.

In reports published in 1995 through 1998, the Kessner Index was used to measure the adequacy of prenatal care (Kessner, 1973). The Kessner Index was replaced in the 1999 report by the Adequacy of Prenatal Care Utilization Index, which is the methodology specified in HP 2020 Objectives.

The Adequacy of Prenatal Care Utilization Index developed by Milton Kotelchuck attempts to characterize prenatal care utilization in two independent and distinctive dimensions: adequacy of prenatal care initiation and services received (once prenatal care has begun). The initial dimension, adequacy of prenatal care initiation, characterizes the month prenatal care began and its timeliness. The second dimension, adequacy of received services, characterizes the number of prenatal care visits received from the time the mother began prenatal care until 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 categories for adequacy of prenatal care:

- (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 is used in Table 27B 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 was 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 Kotelchuck listed in the bibliography.

Breastfeeding Initiation During Early Postpartum (Table 28): The 2010 data serve as the new baseline for future comparisons and trends of in-hospital breastfeeding practices in California. The 2010 data should not be compared to data published in prior years (2004-2009) due to revisions to the Newborn Screening Program (NBS) data collection tool (NBS Form), as well as changes in the data analysis methodology during this time period.

The primary change, the exclusion of data for infants who were in a Neonatal Intensive Care Unit (NICU) nursery at the time of specimen collection, was done in order to better align with the new perinatal quality measure on exclusive breast milk feeding endorsed by the National Quality Forum, the Joint Commission and the Leapfrog Group. For additional information on the methods used to compute this indicator, visit the CDPH Breastfeeding Data webpage at: <http://www.cdph.ca.gov/data/statistics/Pages/InHospitalBreastfeedingInitiationData.aspx>

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

Breastfeeding initiation data are obtained from the Center for Family Health, Genetic Disease Screening Program, Newborn Screening Data with analyses by the Maternal, Child and Adolescent Health Program. All nonmilitary hospitals providing maternity services are required to complete the Newborn Screening Test Form prior to an infant's discharge. Analysis is limited to cases reported on the Newborn Screening Test Form [Version NBS-I (D)].

Infant feeding data presented in this report include all feedings from birth to time of specimen collection, usually 24 to 48 hours. To complete the form, staff must select from the following three categories to describe all feeding since birth: (1) Only Human Milk; (2) Only Formula; and (3) Human Milk & Formula. In Table 28, the number for "BREASTFED" includes records marked 'Only Human Milk' or 'Human Milk & Formula'. The "TOTAL NUMBER" excludes data for infants who were in a Neonatal Intensive Care Unit (NICU) nursery or received Total Parenteral Nutrition (TPN) at the time of specimen collection. Also, excluded are cases with an unknown method of feeding. Statewide, approximately 2.3 percent of cases have missing feeding information and/or receive TPN at the time of specimen collection. For this same period, approximately 0.6 percent of cases are missing maternal county of residence data.

The California Department of Public Health (CDPH) compiles data from a variety of data sources to monitor progress towards achieving Healthy People 2020 objectives for breastfeeding initiation, duration and exclusivity, and hospital and worksite support for breastfeeding mothers and infants. For additional breastfeeding indicators visit the CDPH Breastfeeding Data Web Page at www.cdph.ca.gov/breastfeedingdata. Many CDPH programs and initiatives promote breastfeeding. For information on these CDPH programs and initiatives, as well as resources that can help pregnant or breastfeeding women, visit the CDPH Breastfeeding Web Page at www.cdph.ca.gov/breastfeeding.

As in *Profiles 2015*, the Breastfeeding Initiation During Early Postpartum Percentage calculation continues using a three-year format. However, due to insufficient commensurable data, a comparison to the prior three year period is not possible.

Childhood Poverty (Table 29): Children under the age of 18 living in families with income at or below the poverty level define the category of population under 18 in poverty. The percent of children under 18 in this category is an indicator of global risk factors that have implications for accessibility to health services.

CRUDE RATES AND AGE-ADJUSTED RATES

Crude rates and age-adjusted rates are calculated for mortality data. The numerator data used to compute mortality rates and percentages were three-year averages compiled by county of residence of the decedent; mother's county of residence for birth data (including linked birth-death data for infant mortality); and county of residence for morbidity data. Three-year averages tend to reduce the year-to-year fluctuations and increase the stability of estimates.

A non-standardized rate (or "crude rate") is calculated by dividing the total number of events (e.g., deaths) by the total population at risk, then multiplying by a base (e.g., 100,000). Sub-populations such as counties with varying age compositions can have highly disparate crude death rates, since the risk of dying is primarily a function of age. Therefore, counties with a large component of elderly experience a higher death rate. The effect of different age compositions among counties or other demographic groups can be removed from the death rates by the "age-adjustment" process. This produces age-adjusted rates that permit comparisons among geographic and demographic groups, which are directly comparable with those HP 2020 National Objectives that are expressed as age-adjusted rates.

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 rates in this report is drawn from the 2000 U.S. Standard Population distribution that applies the same age groupings and proportions as those established by NCHS for the Department of Health and Human Services. These age-adjusted rates put all counties on the same footing with respect to the effect of age and permit direct comparisons among counties and other national reports. It is important to understand that age-adjusted death rates should be viewed as constructs or index numbers rather than as actual measures of the risk of mortality. Crude death rates, which include the effect of age, are the rates that should be applied when measuring the actual risk of dying in a specific population. For further information on age-adjusted rates, see NCHS report by Curtin and Klein on "Direct Standardization," listed in the bibliography.

Data for the morbidity tables were not age-adjusted due to the unavailability of the morbidity data by age. Hence, only crude case rates were calculated. Although age and aging do affect morbidity, the effect is not as prominent as their impact on mortality. Birth cohort infant death rates are 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. Birth cohort comparisons among counties reflect the actual risk of dying within one year of birth, and concurrently, are unaffected by confounding age compositions because the cohorts represent the same age group (under one year).

RELIABILITY OF RATES

All vital statistics rates and morbidity rates are subject to random variation. This variation is inversely related to the number of events (e.g., deaths) used in calculating the rate. Small frequencies in the occurrence of events produce a greater likelihood that random fluctuations will be found within a specified time period. Rare events are relatively less stable in their occurrence from observation to observation. 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 of zero events is especially hazardous, regardless of the population size. This report reduces some year-to-year fluctuation in the occurrence of rare events by basing rates on three-year average numbers of events (e.g., 2012-2014), divided by the population in the middle year (e.g., 2013).

The “standard error of a rate” and “coefficient of variation” or relative standard error (RSE) provided the rational basis for determining which rates may be considered “unreliable.” Conforming to [NCHS standards](#), rates that are calculated from fewer than 20 data elements, the equivalent of an RSE of 23 percent or more, are considered unreliable. When rates, percentages, and confidence limits are not calculated due to zero events, they are shown as dashes (-).

The 95 percent confidence limits depict the range within which the rate would probably occur in 95 of 100 sets of data (if data similar to the present set were independently acquired on 100 separate occasions). In five of those 100 data sets, the rate or percent would fall outside the limits. Confidence intervals based on 100 or more data elements are calculated utilizing a normal distribution. In cases where there are fewer than 100 data elements, the gamma distribution is used. 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 for each health indicator are displayed with the counties in rank order by increasing rates or percentages (calculated to 15 decimal places) with the exceptions of prenatal care begun during the first trimester of pregnancy (Table 27A), prenatal care adequacy (Table 27B) and breastfeeding initiation (Table 28). The county with the lowest rate or percentage is in the first rank moving down the column to the highest rate or percentage. Data for prenatal care begun during the first trimester of pregnancy, data for adequacy of prenatal care and data for breastfeeding initiation are displayed with the counties in rank order by decreasing percentages (calculated to 15 decimal places). The county possessing the highest percentage is in the first rank and the county with the lowest percentage is in the 58th rank. For all health indicators, counties with identical rates or percentages are ranked first by largest population or number of births.

COMPARISON OF RATES AND PERCENTAGES (TABLE 30)

Rates and percentages have been calculated for one prior period, which facilitates comparison between the earlier period, and the current reported statistics for selected health indicators. Readers are cautioned that measuring progress toward target attainment for a HP 2020 objective using only one data point is not recommended. HP 2020 provides basic formulas to measure progress toward achieving your target for the selected health outcome. These can be found here: <https://www.healthypeople.gov/2020/tools-and-resources/program-planning/Plan>

THEMATIC MAPS

ArcGIS, version 10.2, ArcMap software was used to create the thematic maps. Mapped data were derived from the rates/percentages displayed in the column to the immediate left of the 95 percent confidence intervals in the adjacent table. Counties with rates or percentages based on fewer than 20 data elements are shown with an overlay of diagonal dashes. Counties with zero events are shown in a bright yellow color.

The mapping methodology strives to illustrate rates/percentages for each indicator in a way that highlights a county's status in meeting the HP 2020 Objective target, if one exists, and in comparison with the California rate. For example, a typical map for an indicator with an HP 2020 Objective, displays counties that achieved the target in the lightest shade, counties with a rate between the California rate and the target in the medium shade, and counties with a rate above the California rate in the darkest shade (see the Colorectal Cancer map and table on pages 7 and 8).

Rates or percentages for health indicators without established HP 2020 Objectives, or with HP 2020 data collection criteria that California was unable to meet, are mapped according to counties with rates/percentages at or below the California rate/percentage with the remaining counties above California's rate/percentage divided into two groups based on a calculated 50th percentile of the rates/percentages among those counties.

ALZHEIMER'S DISEASE REPORTING – SANTA CLARA COUNTY

Santa Clara County reported an abrupt decline in the number of Alzheimer's deaths from 2012 to 2013 and 2014, due to a change in cause of death reporting practice among some certifiers of death in that county. Therefore, Profiles 2016 data for Santa Clara County may not reflect a true decline in the number of Alzheimer's deaths. While Alzheimer's related deaths were previously reported as "Alzheimer's disease" or "Alzheimer's dementia", many certifiers in Santa Clara County appear to now be reporting those deaths using the more general term of "neurodegenerative disease or disorder". Accordingly, Santa Clara County has seen a rise in deaths from "neurodegenerative disease or disorder" that is roughly in line with the decrease in deaths from Alzheimer's.

FORMULAS USED IN THIS REPORT

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

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

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

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

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

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

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

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

Where:

- CDR = Crude Death Rate
- ADR = Age-Adjusted Death Rate
- ASDR = Age-Specific Death Rate
- nD = Number of Deaths
- Npop = Population Size
- nD_a = Number of Deaths in an Age Group
- Npop_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

Gamma Distribution Confidence Intervals

Lower 95% CL = Rate x GamInv (.025, Numerator of Rate) / Numerator of Rate

Upper 95% CL = Rate x GamInv (.975, Numerator of Rate+1) / Numerator of Rate

Where: Rate is CDR or ADR depending on which table is being calculated.

GamInv is the gamma inverse function as used in SAS.

PROCEDURE FOR CALCULATING AGE-ADJUSTED RATES BY THE DIRECT METHOD

Age-adjusted rates calculated in this report follow the procedure that was used to set the HP 2020 National Objectives. The standard population used the year 2000 U.S. population. The data in the following example were extracted from Table 1: Deaths Due to All Causes, 2012 through 2014 for Alameda County.

| ALAMEDA COUNTY | | | | | |
|-------------------------------|---------------------------------------|----------------------------|--------------------------------------|--|----------------------------------|
| AGE GROUPS | 2012-2014 DEATHS (AVERAGE) (A) | 2013 POPULATION (B) | AGE-SPECIFIC RATE/100,000 (C) | 2000 U.S. STANDARD POPULATION PROPORTIONS (D) | WEIGHTED RATE FACTORS (E) |
| TOTAL | 9,477.0 | 1,563,370 | | | |
| Unknown | 2.0 | | | | |
| <1 | 80.0 | 19,493 | 410.4 | 0.013818 | 5.7 |
| 1-4 | 12.0 | 76,842 | 15.6 | 0.055317 | 0.9 |
| 5-14 | 15.7 | 190,900 | 8.2 | 0.145565 | 1.2 |
| 15-24 | 125.0 | 203,954 | 61.3 | 0.138646 | 8.5 |
| 25-34 | 167.3 | 232,027 | 72.1 | 0.135573 | 9.8 |
| 35-44 | 261.3 | 231,327 | 113.0 | 0.162613 | 18.4 |
| 45-54 | 624.0 | 222,525 | 280.4 | 0.134834 | 37.8 |
| 55-64 | 1,283.7 | 191,268 | 671.1 | 0.087247 | 58.6 |
| 65-74 | 1,581.3 | 111,600 | 1,417.0 | 0.066037 | 93.6 |
| 75-84 | 2,023.3 | 55,333 | 3,656.6 | 0.044842 | 164.0 |
| >84 | 3,301.3 | 28,101 | 11,748.1 | 0.015508 | 182.2 |
| AGE-ADJUSTED RATE..... | | | | | 580.5 |

- STEP 1:** Arrange the data for the three-year average number of deaths and population for 11 age groups in columns A and B.
- STEP 2:** Calculate age-specific rates by dividing the number of deaths in column A (numerator) by the population in column B (denominator). Multiply the result (quotient) by the base of 100,000 to obtain the rates in column C.
- STEP 3:** Multiply each age-specific rate in column C by the corresponding 2000 U.S. Standard Population 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 580.5 per 100,000 population.
- STEP 5:** Repeat Steps 1 through 4 for each county and the statewide total. Note that the 2000 U.S. Standard Population proportions remain the same for each county and the State.

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.

**APPENDIX A
CALIFORNIA'S HEALTH STATUS PROFILE FOR 2016**

| MORTALITY | | | | | | | | |
|-------------------|-------------------------------------|----------------------------|------------------|-------------------------|--------------------------------------|-------|--------------------|----------------------------------|
| HP 2020 OBJECTIVE | HEALTH STATUS INDICATOR | 2012-2014 DEATHS (AVERAGE) | CRUDE DEATH RATE | AGE-ADJUSTED DEATH RATE | 95% CONFIDENCE LIMITS LOWER UPPER | | NATIONAL OBJECTIVE | AGE-ADJUSTED DEATH RATE PREVIOUS |
| | ALL CAUSES | 245,451.0 | 642.5 | 619.6 | 617.1 | 622.1 | a | 643.2 |
| C-1 | ALL CANCERS | 57,763.3 | 151.2 | 146.5 | 145.3 | 147.7 | 161.4 | 154.6 |
| C-5 | COLORRECTAL CANCER | 5,292.3 | 13.9 | 13.3 | 13.0 | 13.7 | 14.5 | 14.5 |
| C-2 | LUNG CANCER | 12,376.0 | 32.4 | 31.7 | 31.2 | 32.3 | 45.5 | 36.1 |
| C-3 | FEMALE BREAST CANCER | 4,421.3 | 23.0 | 20.3 | 19.7 | 20.9 | 20.7 | 21.2 |
| C-7 | PROSTATE CANCER | 3,094.7 | 16.3 | 19.3 | 18.6 | 20.0 | 21.8 | 21.2 |
| | DIABETES | 8,030.7 | 21.0 | 20.4 | 20.0 | 20.9 | b | 19.9 |
| | ALZHEIMER'S DISEASE | 12,043.3 | 31.5 | 30.1 | 29.5 | 30.6 | a | 29.5 |
| HDS-2 | CORONARY HEART DISEASE | 38,543.3 | 100.9 | 96.6 | 95.6 | 97.5 | 103.4 | 109.2 |
| HDS-3 | CEREBROVASCULAR DISEASE (STROKE) | 13,574.0 | 35.5 | 34.4 | 33.8 | 35.0 | 34.8 | 37.2 |
| | INFLUENZA/PNEUMONIA | 6,094.7 | 16.0 | 15.3 | 14.9 | 15.7 | a | 16.9 |
| | CHRONIC LOWER RESPIRATORY DISEASE | 13,073.0 | 34.2 | 33.7 | 33.1 | 34.3 | a | 36.8 |
| SA-11 | CHRONIC LIVER DISEASE AND CIRRHOSIS | 4,806.0 | 12.6 | 11.7 | 11.4 | 12.1 | 8.2 | 11.3 |
| IVP-11 | ACCIDENTS (UNINTENTIONAL INJURIES) | 11,163.0 | 29.2 | 28.2 | 27.7 | 28.8 | 36.4 | 27.5 |
| IVP-13.1 | MOTOR VEHICLE TRAFFIC CRASHES | 3,111.0 | 8.1 | 7.9 | 7.7 | 8.2 | 12.4 | 7.5 |
| MHMD-1 | SUICIDE | 4,014.0 | 10.5 | 10.2 | 9.9 | 10.5 | 10.2 | 10.1 |
| IVP-29 | HOMICIDE | 1,914.3 | 5.0 | 5.0 | 4.7 | 5.2 | 5.5 | 5.2 |
| IVP-30 | FIREARM-RELATED DEATHS | 2,983.7 | 7.8 | 7.6 | 7.4 | 7.9 | 9.3 | 7.8 |
| SA-12 | DRUG-INDUCED DEATHS | 4,521.0 | 11.8 | 11.3 | 11.0 | 11.7 | 11.3 | 11.0 |

| MORBIDITY | | | | | | | |
|-------------------|--------------------------------------|---------------------------|-----------------|--------------------------------------|-------|--------------------|--------------------------|
| HP 2020 OBJECTIVE | HEALTH STATUS INDICATOR | 2012-2014 CASES (AVERAGE) | CRUDE CASE RATE | 95% CONFIDENCE LIMITS LOWER UPPER | | NATIONAL OBJECTIVE | CRUDE CASE RATE PREVIOUS |
| | AIDS INCIDENCE (AGE 13 AND OVER) | 2,323.7 | 7.3 | 7.0 | 7.6 | a | 10.2 |
| | CHLAMYDIA INCIDENCE | 170,779.7 | 447.0 | 444.9 | 449.2 | c | 417.6 |
| STD-6.1 | GONORRHEA INCIDENCE FEMALE AGE 15-44 | 13,621.7 | 172.1 | 169.2 | 175.0 | 251.9 | 127.2 |
| STD-6.2 | GONORRHEA INCIDENCE MALE AGE 15-44 | 21,180.3 | 255.6 | 252.2 | 259.1 | 194.8 | 165.5 |
| IID-29 | TUBERCULOSIS INCIDENCE | 2,167.0 | 5.7 | 5.4 | 5.9 | 1.0 | 6.4 |

| INFANT MORTALITY | | | | | | | |
|-------------------|-----------------------------|----------------------------|-------------------------------------|--------------------------------------|------|--------------------|-------------------------------|
| HP 2020 OBJECTIVE | HEALTH STATUS INDICATOR | 2011-2013 DEATHS (AVERAGE) | BIRTH COHORT (BC) INFANT DEATH RATE | 95% CONFIDENCE LIMITS LOWER UPPER | | NATIONAL OBJECTIVE | BC INFANT DEATH RATE PREVIOUS |
| MICH-1.3 | INFANT MORTALITY: ALL RACES | 2,365.7 | 4.7 | 4.5 | 4.9 | 6.0 | 5.0 |
| MICH-1.3 | INFANT MORTALITY: ASIAN/PI | 243.3 | 3.6 | 3.1 | 4.0 | 6.0 | 4.0 |
| MICH-1.3 | INFANT MORTALITY: BLACK | 256.0 | 9.7 | 8.5 | 10.8 | 6.0 | 11.0 |
| MICH-1.3 | INFANT MORTALITY: HISPANIC | 1,134.3 | 4.6 | 4.4 | 4.9 | 6.0 | 4.9 |
| MICH-1.3 | INFANT MORTALITY: WHITE | 538.0 | 3.9 | 3.6 | 4.2 | 6.0 | 4.2 |

| NATALITY | | | | | | | |
|-------------------|--------------------------------------|----------------------------|---------|--------------------------------------|------|--------------------|------------------|
| HP 2020 OBJECTIVE | HEALTH STATUS INDICATOR | 2012-2014 BIRTHS (AVERAGE) | PERCENT | 95% CONFIDENCE LIMITS LOWER UPPER | | NATIONAL OBJECTIVE | PERCENT PREVIOUS |
| MICH-8.1 | LOW BIRTHWEIGHT INFANTS | 33,725.3 | 6.7 | 6.7 | 6.8 | 7.8 | 6.8 |
| MICH-10.1 | FIRST TRIMESTER PRENATAL CARE | 410,206.7 | 83.5 | 83.3 | 83.8 | 77.9 | 83.3 |
| MICH-10.2 | ADEQUATE/ADEQUATE PLUS PRENATAL CARE | 383,041.0 | 78.6 | 78.4 | 78.9 | 77.6 | 79.7 |

| HP 2020 OBJECTIVE | HEALTH STATUS INDICATOR | 2012-2014 BIRTHS (AVERAGE) | AGE-SPECIFIC BIRTH RATE | 95% CONFIDENCE LIMITS LOWER UPPER | | NATIONAL OBJECTIVE | AGE-SPECIFIC BIRTH RATE PREVIOUS |
|-------------------|------------------------------|----------------------------|-------------------------|--------------------------------------|------|--------------------|----------------------------------|
| | BIRTHS TO MOTHERS AGED 15-19 | 30,815.7 | 23.4 | 23.2 | 23.7 | a | 31.5 |

| BREASTFEEDING | | | | | | | |
|-------------------|--------------------------|-------------------------------|---------|--------------------------------------|------|--------------------|------------------|
| HP 2020 OBJECTIVE | HEALTH STATUS INDICATOR | 2012-2014 BREASTFED (AVERAGE) | PERCENT | 95% CONFIDENCE LIMITS LOWER UPPER | | NATIONAL OBJECTIVE | PERCENT PREVIOUS |
| MICH-21.1 | BREASTFEEDING INITIATION | 401,467.3 | 92.9 | 92.7 | 93.2 | 81.9 | d |

| CENSUS | | | | | | | |
|-------------------|-----------------------------|-------------|---------|--------------------------------------|------|--------------------|------------------|
| HP 2020 OBJECTIVE | HEALTH STATUS INDICATOR | 2013 NUMBER | PERCENT | 95% CONFIDENCE LIMITS LOWER UPPER | | NATIONAL OBJECTIVE | PERCENT PREVIOUS |
| | PERSONS UNDER 18 IN POVERTY | 2,119,057 | 23.3 | 23.2 | 23.3 | a | 23.7 |

a Healthy People 2020 (HP 2020) National Objective has not been established.
b National Objective is based on both underlying and contributing cause of death which requires use of multiple cause of death files. California's data exclude multiple-contributing causes of death.
c Prevalence data are not available in all California counties to evaluate the Healthy People 2020 National Objective STD-1, as the Healthy People objective is restricted to females who are 15-24 years old and identified at a family planning clinic, and males and females under 24 years old who participate in a national job-training program.
d Data not available.
Note Crude death rates, crude case rates, and age-adjusted death rates are per 100,000 population. Birth cohort infant death rates are per 1,000 live births. The age-specific birth rates are per 1,000 female population aged 15 to 19 years old.
Sources Previous refers to previous period rates. These periods vary by type of rate: Mortality 2009-2011, Morbidity 2009-2011, Infant Mortality 2008-2010, Natality 2009-2011, Census 2012. State of California, Department of Finance, Report P-3: State and County Population Projections by Race/Ethnicity, Detailed Age, and Gender, 2010-2060. Sacramento, California, December 2014. California Department of Public Health: 2009-2014 Death Records. California Department of Public Health, Office of AIDS, HIV/AIDS Surveillance Section, data as of 12/31/2015. California Department of Public Health, STD Control Branch, Data Request, September 2015. Chlamydia data. California Department of Public Health, STD Control Branch, Data Request, September 2015. Gonorrhea data. California Department of Public Health, Tuberculosis Control Branch, Report on Tuberculosis in California, 2014. Richmond, CA, August 2015. California Department of Public Health: 2008-2013 Birth Cohort-Perinatal Outcome Files. California Department of Public Health: 2009-2014 Birth Records. California Department of Public Health, Center for Family Health, Genetic Disease Screening Program, Newborn Screening Data, 2012-2014. California Department of Public Health, Center for Family Health, Maternal, Child and Adolescent Health Program. U.S. Census Bureau, Small Area Income and Poverty Estimates. <http://www.census.gov/did/www/saiper/data/statecounty/data/2013.html>, Accessed February 2015.

BIBLIOGRAPHY

American Academy of Pediatrics. [Breastfeeding and the Use of Human Milk. *Pediatrics*, Vol. 115, No. 2, February 2005: pp. 496-506 \(doi:10.1542/peds.2004-2491\).](#)

Armitage P, Berry G, Matthews JNS. [*Statistical Methods in Medical Research* \(4th edition\). Oxford: Blackwell Science 2002.](#)

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

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

Foster JE. [Using Natality Data in Health Planning. *Statistical Notes for Health Planners*, No. 12. National Center for Health Statistics. November 1980.](#)

Hamilton BE, Mathews TJ, Ventura SJ. [Declines in State Teen Birth Rates by Race and Hispanic Origin. *NCHS Data Brief*, no 123. Hyattsville, MD: National Center for Health Statistics. 2013.](#)

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

Kessner DM, Singer J, Kalk CE, Schlesinger ER. *Infant Death: An Analysis by Maternal Risk and Health Care. Contrasts in Health Status; Vol. I.* Washington, DC: Institute of Medicine, National Academy of Sciences; 1973.

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

Kleinman JC. [Mortality. *Statistical Notes for Health Planners*, No. 3. National Center for Health Statistics. February 1977.](#)

Kotelchuck M. [An Evaluation of the Kessner Adequacy of Prenatal Care Index and a Proposed Adequacy of Prenatal Care Utilization Index. *American Journal of Public Health*, Vol. 84, No. 9, pp. 1414-1420. September 1994.](#)

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

MacDorman MF, Mathews TJ. [Recent Trends in Infant Mortality in the United States. *NCHS Data Brief*, no 9. Hyattsville, MD: National Center for Health Statistics. 2008.](#)

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

U.S. Department of Health and Human Services. Office of Disease Prevention and Health Promotion. Healthy People 2020. Washington, DC. <https://www.healthypeople.gov/>

World Health Organization. [*International Statistical Classification of Diseases and Related Health Problems, tenth revision.*](#) Geneva: World Health Organization, 1992.

California Department of Public Health. [Programs Page, A to Z index for data sources.](#)