

# COUNTY HEALTH STATUS PROFILES 2015

CALIFORNIA DEPARTMENT OF PUBLIC HEALTH AND  
CALIFORNIA CONFERENCE OF LOCAL HEALTH OFFICERS  
NATIONAL PUBLIC HEALTH WEEK APRIL 6-12, 2015

# COUNTY HEALTH STATUS PROFILES 2015

California Department of Public Health  
Center for Health Statistics and Informatics  
James 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  
Data Analysis Reporting Unit  
Elaine Bilot, MS, MA, Chief

In collaboration with  
California Conference of Local Health Officers  
Muntu Davis, MD, MPH, President



EDMUND G. BROWN JR.  
GOVERNOR  
State of California



Diana S. Dooley  
Secretary  
California Health and Human Services Agency

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

## ACKNOWLEDGMENTS

**John Rudzinkas, MBA** 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.

**Steve Sottana**, 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 2012 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.

**Linda Johnson** 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.

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**. October morning in Yosemite National Park.



Karen Smith, MD, MPH  
Director & State 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 2015 (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 2015** includes data years 2007-2013 and is updated each year and amended according to priorities developed by CDPH and the California Conference of Local Health Officers.

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

Muntu Davis, MD, MPH  
President  
California Conference of  
Local Health Officers

# TABLE OF CONTENTS

INTRODUCTION.....	1-2
-------------------	-----

TABLES WITH HIGHLIGHTS .....	3-82
------------------------------	------

## TABLES

## HEALTH STATUS INDICATORS

### 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

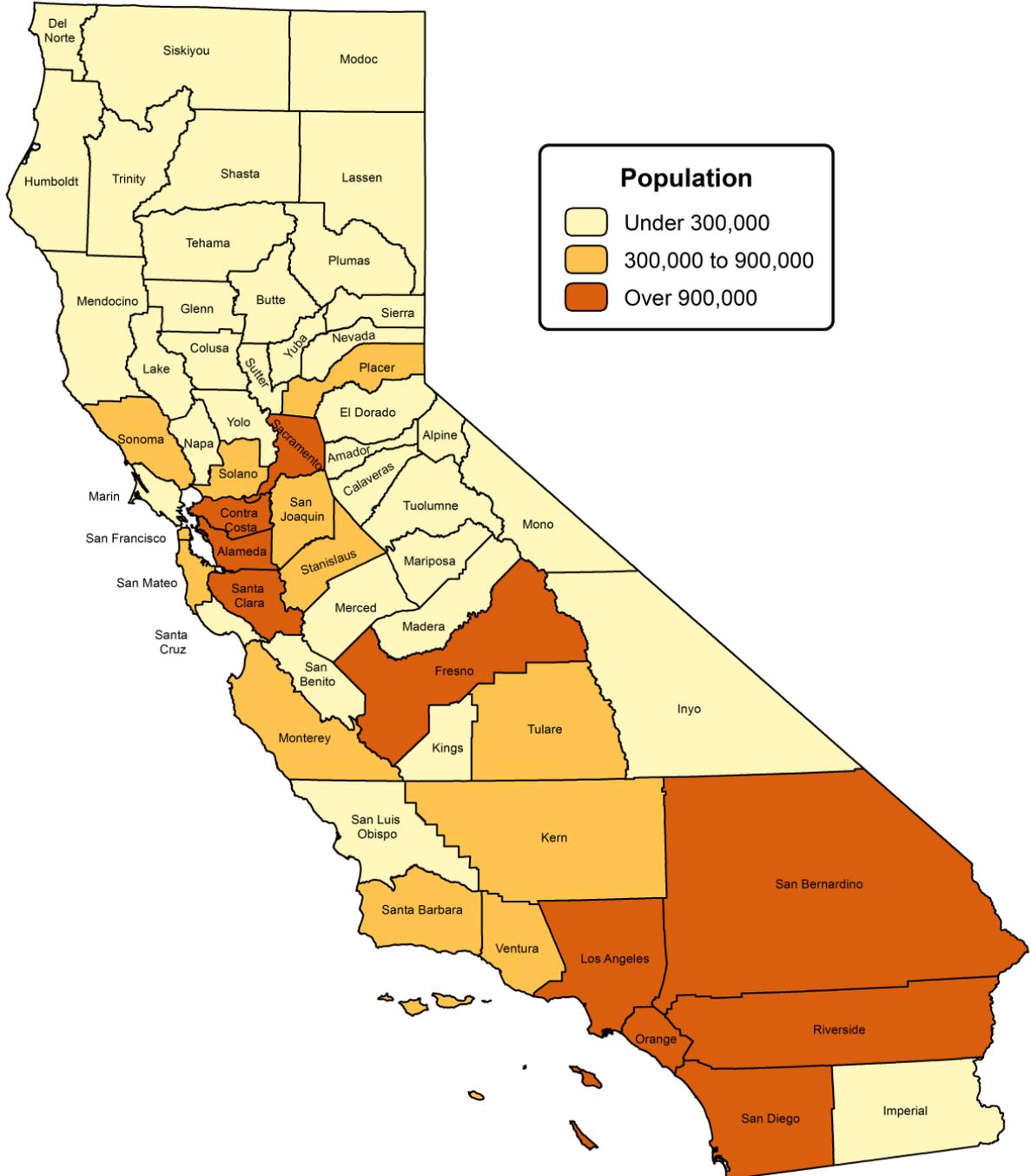
24A	Infant Mortality, All Race/Ethnic Groups .....	51-52
24B	Asian/Pacific Islander Infant Mortality .....	53-54
24C	Black Infant Mortality.....	55-56
24D	Hispanic Infant Mortality.....	57-58
24E	White Infant Mortality .....	59-60

## 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
	2012 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.....	83-92
APPENDIX A	
California's Health Status Profile 2015 .....	93
BIBLIOGRAPHY .....	94-95

# CALIFORNIA COUNTIES

2012 STATEWIDE POPULATION: 37,826,160



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, January 2013.

## INTRODUCTION

**County Health Status Profiles 2015 (Profiles 2015)** 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 93) 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 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 2015** contains vital statistics and morbidity tables that show the population, number of events, crude rates, and age-adjusted death rates (when appropriate) 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 92). Data limitations and qualifications are provided in the Technical Notes to assist the reader with interpretation and comparison of these data among the counties. 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 identify the upper and lower 95 percent confidence limits, 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 approximation. In cases where there are fewer than 100 events, the gamma distribution is applied to prevent producing a negative lower limit confidence interval. For additional information on the gamma distribution, please see [National Vital Statistics Report, Volume 57, No. 14, April 17, 2009](#). 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. The current period, (2011-2013), used the 2012 (mid-year) population figures 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, January 2013*. Rates developed for the previous period, (2008-2010), used the 2009 (mid-year) population figures from the *State of California, Department of Finance, Race/Hispanics Population with Age and*

*Gender Detail, 2000–2010. Sacramento, California, September 2012 estimates.*

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 2012 were obtained from the [U.S. Census Bureau](#).

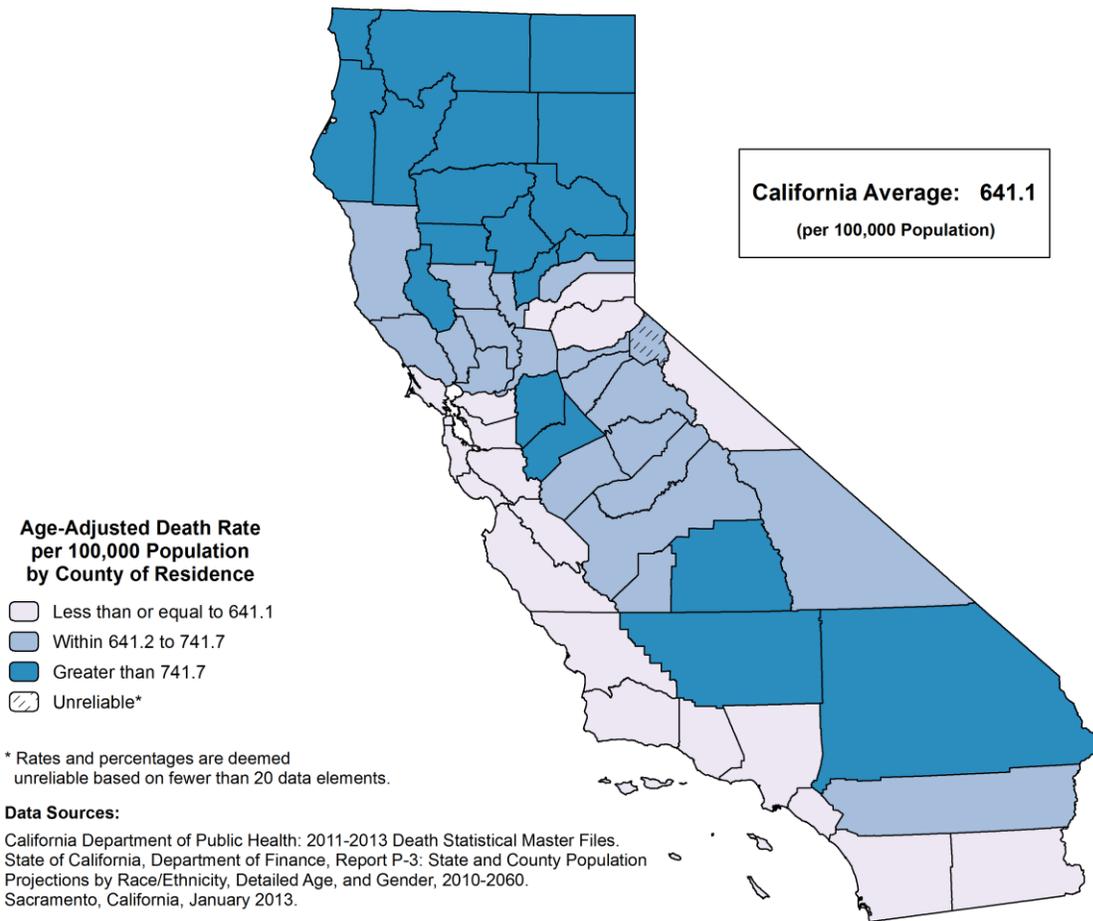
To access electronic copies of this report, visit the [CDPH, Center for Health Statistics and Informatics, Public Health Policy and Research Branch site](#).

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](mailto:DAReports@cdph.ca.gov)

**Profiles** for the years 1999 through 2014 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, 2011-2013



The crude death rate from all causes for California was 642.9 deaths per 100,000 population, a risk of dying equivalent to approximately one death for every 155.5 persons. This rate was based on a 2011 through 2013 three-year average number of deaths equaling 243,195.0 and a population count of 37,826,160 as of July 1, 2012. Among counties with reliable rates, the crude rate ranged from 1,297.7 in Lake County to 374.1 in Mono County, a factor of 3.5 to 1.

The age-adjusted death rate from all causes for California during the 2011 through 2013 three-year period was 641.1 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 965.7 in Lake County to 522.1 in Mono County.

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

The California average age-adjusted death rate for the 2008-2010 period was 652.2.

**TABLE 1  
DEATHS DUE TO ALL CAUSES  
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE  
CALIFORNIA COUNTIES, 2011-2013**

RANK ORDER	COUNTY OF RESIDENCE	2012 POPULATION	2011-2013 DEATHS (AVERAGE)	CRUDE DEATH RATE	AGE-ADJUSTED DEATH RATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
<b>HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE:</b>						<b>NONE</b>	
1	MONO	14,258	53.3	374.1	522.1	391.5	682.4
2	SANTA CLARA	1,828,597	9,326.7	510.0	523.6	512.8	534.3
3	MARIN	254,882	1,882.0	738.4	524.9	500.5	549.3
4	SAN MATEO	736,362	4,623.7	627.9	534.3	518.6	550.0
5	SAN FRANCISCO	820,349	5,649.7	688.7	574.3	559.1	589.5
6	ORANGE	3,071,933	18,289.0	595.4	584.0	575.4	592.5
7	MONTEREY	422,868	2,406.7	569.1	595.6	571.5	619.8
8	SAN BENITO	56,527	301.0	532.5	596.0	527.2	664.8
9	VENTURA	834,109	5,230.0	627.0	603.8	587.2	620.4
10	SANTA BARBARA	427,358	2,927.3	685.0	604.2	581.9	626.6
11	IMPERIAL	178,659	980.3	548.7	606.8	568.5	645.0
12	ALAMEDA	1,540,790	9,383.0	609.0	608.4	595.9	621.0
13	LOS ANGELES	9,911,665	58,808.7	593.3	609.8	604.8	614.7
14	CONTRA COSTA	1,069,803	7,153.3	668.7	614.9	600.4	629.4
15	SANTA CRUZ	267,569	1,708.3	638.5	625.9	595.3	656.5
16	EL DORADO	180,599	1,362.7	754.5	626.7	592.5	660.9
17	SAN DIEGO	3,147,220	20,157.3	640.5	630.0	621.2	638.8
18	SAN LUIS OBISPO	271,021	2,241.7	827.1	637.4	610.2	664.5
19	PLACER	360,680	2,833.0	785.5	637.5	613.8	661.2
	<b>CALIFORNIA</b>	<b>37,826,160</b>	<b>243,195.0</b>	<b>642.9</b>	<b>641.1</b>	<b>638.5</b>	<b>643.7</b>
20	SONOMA	489,283	3,893.7	795.8	643.8	623.0	664.6
21	NAPA	138,577	1,183.3	853.9	650.9	612.9	688.9
22	YOLO	204,314	1,203.3	589.0	658.8	621.0	696.6
23	NEVADA	98,202	1,001.0	1019.3	666.7	620.0	710.4
24	RIVERSIDE	2,244,399	14,792.0	659.1	669.5	658.7	680.4
25	INYO	18,637	194.0	1040.9	669.6	572.2	767.0
26	MARIPOSA	17,817	175.3	984.1	671.3	565.3	777.3
27	COLUSA	21,614	146.7	678.6	693.0	579.1	806.9
28	SOLANO	415,913	2,901.0	697.5	694.4	668.7	720.1
29	AMADOR	36,899	424.3	1150.0	702.9	632.8	772.9
30	KINGS	150,843	803.3	532.6	726.5	674.9	778.1
31	SUTTER	95,351	729.3	764.9	726.6	673.5	779.6
32	ALPINE	1,127	8.3	739.4 *	727.3 *	320.5	1414.4
33	SACRAMENTO	1,439,874	10,487.7	728.4	728.5	714.4	742.6
34	MENDOCINO	88,566	825.3	931.9	730.0	678.4	781.5
35	TUOLUMNE	54,339	622.7	1145.9	730.9	670.9	791.0
36	MERCED	261,708	1,587.0	606.4	734.3	697.7	770.8
37	CALAVERAS	45,045	487.7	1082.6	734.3	664.5	804.2
38	MADERA	151,790	1,041.7	686.3	736.8	691.7	781.9
39	FRESNO	946,823	6,321.0	667.6	741.7	723.2	760.3
40	SAN BERNARDINO	2,065,016	12,515.0	606.0	750.8	737.4	764.2
41	GLENN	28,208	232.3	823.6	751.1	653.4	848.8
42	SAN JOAQUIN	699,003	4,918.7	703.7	760.4	738.9	781.9
43	TULARE	451,627	2,862.7	633.9	763.6	735.3	792.0
44	LASSEN	33,650	235.7	700.3	772.1	670.6	873.6
45	STANISLAUS	522,651	3,829.0	732.6	778.4	753.5	803.3
46	BUTTE	221,118	2,245.7	1015.6	791.3	757.5	825.2
47	PLUMAS	19,523	229.0	1173.0	794.0	683.8	904.2
48	KERN	855,522	5,492.7	642.0	802.9	781.3	824.6
49	SIERRA	3,089	37.7	1219.4	805.0	568.7	1106.5
50	SISKIYOU	44,598	532.7	1194.4	809.0	736.1	881.8
51	TRINITY	13,470	154.3	1145.8	817.0	678.5	955.5
52	HUMBOLDT	134,923	1,270.3	941.5	829.4	782.6	876.2
53	TEHAMA	63,623	660.0	1037.4	850.6	784.6	916.7
54	MODOC	9,518	114.7	1204.7	851.6	687.8	1015.4
55	SHASTA	178,477	2,049.0	1148.0	859.1	821.0	897.3
56	DEL NORTE	28,359	278.3	981.5	875.0	770.7	979.4
57	YUBA	73,021	555.3	760.5	876.7	802.3	951.1
58	LAKE	64,394	835.7	1297.7	965.7	897.6	1033.7

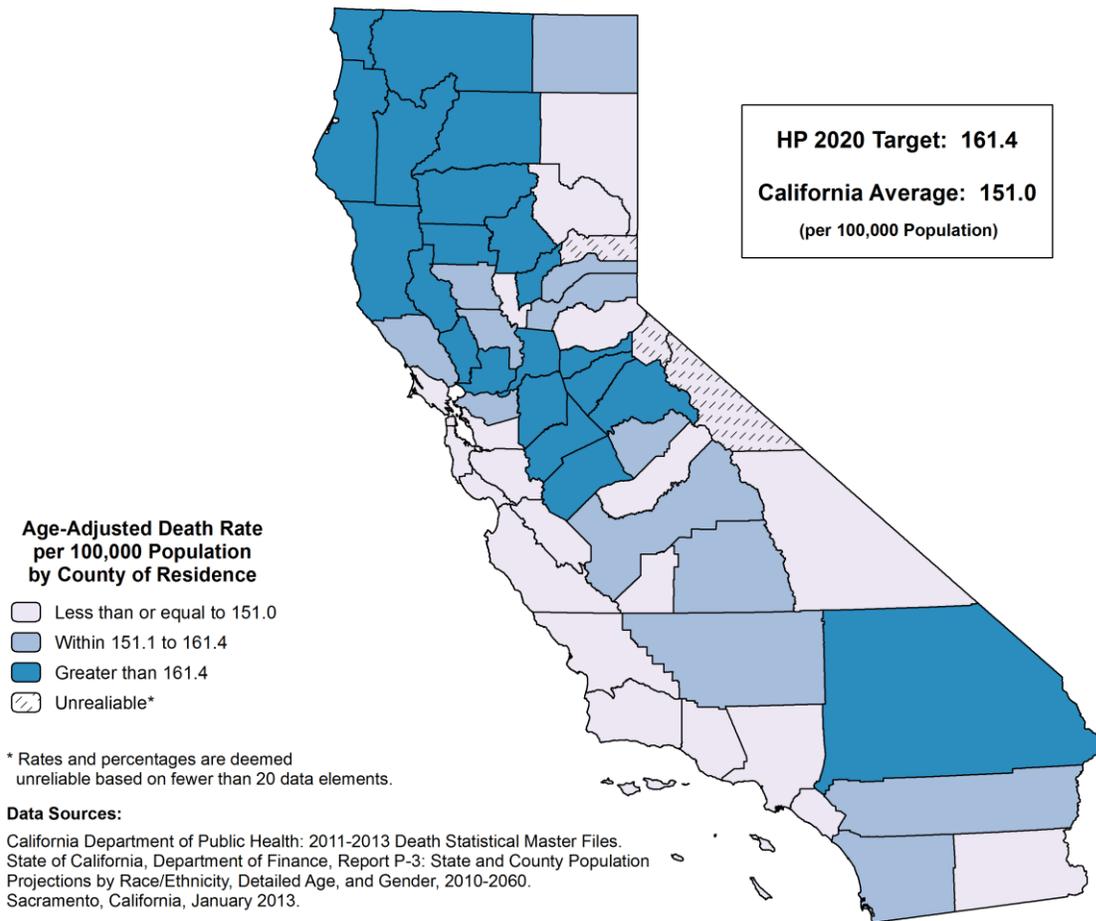
\* Rates are deemed unreliable based on fewer than 20 data elements.

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

Sources: California Department of Public Health, 2011-2013 Death Statistical Master Files.

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, January 2013.

## DEATHS DUE TO ALL CANCERS, 2011-2013



The crude death rate from all cancers for California was 150.9 deaths per 100,000 population, a risk of dying from all cancers equivalent to approximately one death for every 662.7 persons. This rate was based on a 2011 through 2013 three-year average number of deaths equaling 57,082.3 and a population count of 37,826,160 as of July 1, 2012. Among counties with reliable rates, the crude rate ranged from 288.2 in Amador County to 108.0 in Lassen County, a factor of 2.7 to 1.

The age-adjusted death rate from all cancers for California during the 2011 through 2013 three-year period was 151.0 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 199.9 in Lake County to 116.2 in Lassen County.

Thirty-four 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 all cancers per 100,000 population. An additional three counties with unreliable rates met the objective.

The California average age-adjusted death rate from all cancers for the 2008-2010 period was 156.2.

**TABLE 2  
DEATHS DUE TO ALL CANCERS  
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE  
CALIFORNIA COUNTIES, 2011-2013**

RANK ORDER	COUNTY OF RESIDENCE	2012 POPULATION	2011-2013 DEATHS (AVERAGE)	CRUDE DEATH RATE	AGE-ADJUSTED DEATH RATE	95% CONFIDENCE LIMITS		
						LOWER	UPPER	
1	MONO	14,258	9.7	67.8 *	75.1 *	35.5	139.6	
2	SIERRA	3,089	5.7	183.4 *	111.0 *	39.3	246.8	
3	LASSEN	33,650	36.3	108.0	116.2	81.6	160.7	
4	ALPINE	1,127	1.3	118.3 *	118.6 *	6.6	546.2	
5	INYO	18,637	35.0	187.8	120.8	84.1	168.0	
6	IMPERIAL	178,659	202.0	113.1	124.8	107.4	142.1	
7	SANTA CLARA	1,828,597	2,373.3	129.8	133.7	128.2	139.1	
8	MARIN	254,882	484.0	189.9	136.0	123.6	148.4	
9	SAN MATEO	736,362	1,166.0	158.3	137.6	129.6	145.6	
10	PLUMAS	19,523	42.3	216.8	138.8	100.2	187.4	
11	VENTURA	834,109	1,224.7	146.8	142.3	134.2	150.4	
12	ORANGE	3,071,933	4,458.0	145.1	142.9	138.7	147.2	
13	MONTEREY	422,868	563.7	133.3	143.5	131.4	155.5	
14	MADERA	151,790	207.7	136.8	143.8	124.1	163.6	
15	SANTA CRUZ	267,569	399.0	149.1	144.4	129.7	159.2	
16	SANTA BARBARA	427,358	669.3	156.6	144.6	133.5	155.7	
17	SAN LUIS OBISPO	271,021	506.7	186.9	145.2	132.2	158.1	
18	SAN FRANCISCO	820,349	1,379.3	168.1	145.2	137.4	153.0	
19	ALAMEDA	1,540,790	2,237.7	145.2	145.6	139.4	151.7	
20	LOS ANGELES	9,911,665	13,997.0	141.2	146.2	143.8	148.7	
21	EL DORADO	180,599	335.7	185.9	146.3	130.2	162.4	
22	SAN BENITO	56,527	74.7	132.1	147.7	116.1	185.2	
23	SUTTER	95,351	152.3	159.8	149.2	125.4	173.0	
24	KINGS	150,843	167.0	110.7	149.5	126.2	172.8	
	<b>CALIFORNIA</b>	<b>37,826,160</b>	<b>57,082.3</b>	<b>150.9</b>	<b>151.0</b>	<b>149.8</b>	<b>152.3</b>	
25	TULARE	451,627	566.0	125.3	151.1	138.5	163.7	
26	FRESNO	946,823	1,269.3	134.1	151.2	142.7	159.6	
27	CONTRA COSTA	1,069,803	1,787.0	167.0	153.0	145.8	160.2	
28	RIVERSIDE	2,244,399	3,396.3	151.3	153.3	148.1	158.5	
29	PLACER	360,680	686.7	190.4	153.6	142.0	165.2	
30	MODOC	9,518	23.0	241.6	153.7	97.4	230.6	
31	COLUSA	21,614	32.7	151.1	154.0	105.8	216.6	
32	KERN	855,522	1,075.3	125.7	154.4	144.9	163.8	
33	SAN DIEGO	3,147,220	4,933.3	156.8	157.3	152.8	161.7	
34	NEVADA	98,202	242.7	247.1	157.7	137.0	178.4	
35	YOLO	204,314	288.3	141.1	158.7	140.1	177.4	
36	SONOMA	489,283	945.7	193.3	159.1	148.6	169.5	
37	MARIPOSA	17,817	46.0	258.2	159.5	116.8	212.8	
	<b>HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: C-1</b>					<b>161.4</b>		
38	NAPA	138,577	285.0	205.7	163.1	143.8	182.4	
39	TUOLUMNE	54,339	144.7	266.2	163.3	136.0	190.7	
40	MERCED	261,708	354.7	135.5	163.3	146.1	180.5	
41	MENDOCINO	88,566	191.0	215.7	163.5	139.5	187.5	
42	GLENN	28,208	51.0	180.8	163.6	121.8	215.2	
43	DEL NORTE	28,359	55.0	193.9	164.6	124.0	214.2	
44	SAN BERNARDINO	2,065,016	2,818.3	136.5	165.0	158.7	171.2	
45	STANISLAUS	522,651	823.7	157.6	166.7	155.2	178.3	
46	CALAVERAS	45,045	124.7	276.8	167.6	136.5	198.6	
47	AMADOR	36,899	106.3	288.2	168.8	135.8	201.9	
48	SACRAMENTO	1,439,874	2,423.3	168.3	169.3	162.4	176.1	
49	SAN JOAQUIN	699,003	1,103.3	157.8	171.3	161.0	181.5	
50	YUBA	73,021	113.3	155.2	173.1	140.5	205.7	
51	SOLANO	415,913	753.0	181.0	174.5	161.8	187.2	
52	HUMBOLDT	134,923	274.3	203.3	174.9	153.7	196.2	
53	SHASTA	178,477	435.0	243.7	176.3	159.4	193.2	
54	BUTTE	221,118	500.3	226.3	179.0	163.0	195.1	
55	SISKIYOU	44,598	127.3	285.5	180.7	147.9	213.5	
56	TRINITY	13,470	38.3	284.6	185.7	131.6	254.6	
57	TEHAMA	63,623	155.3	244.1	190.6	160.2	220.9	
58	LAKE	64,394	183.7	285.2	199.9	170.2	229.6	

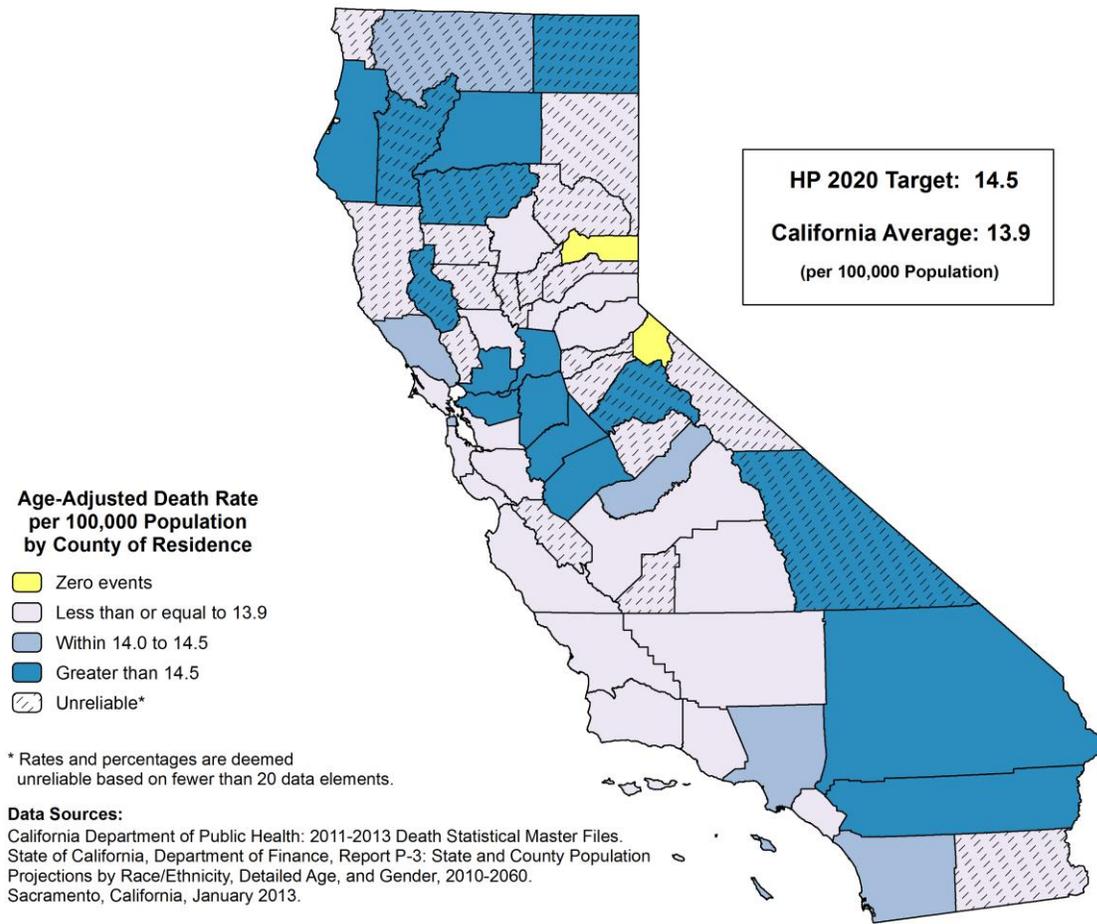
\* Rates are deemed unreliable based on fewer than 20 data elements.

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

Sources: California Department of Public Health, 2011-2013 Death Statistical Master Files.

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, January 2013.

## DEATHS DUE TO COLORECTAL CANCER, 2011-2013



The crude death rate from colorectal cancer for California was 14.0 deaths per 100,000 population, a risk of dying from colorectal cancer equivalent to approximately one death for every 7,135.3 persons. This rate was based on a 2011 through 2013 three-year average number of deaths equaling 5,301.3 and a population count of 37,826,160 as of July 1, 2012. Among counties with reliable rates, the crude rate ranged from 24.5 in Shasta County to 10.1 in Monterey County, a factor of 2.4 to 1.

The age-adjusted death rate from colorectal cancer for California during the 2011 through 2013 three-year period was 13.9 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 17.9 in Shasta County to 10.3 in Marin County.

Twenty-two 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 two counties with no colorectal cancer deaths met the objective.

The California average age-adjusted death rate from colorectal cancer for the 2008-2010 period was 14.6.

**TABLE 3  
DEATHS DUE TO COLORECTAL CANCER  
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE  
CALIFORNIA COUNTIES, 2011-2013**

RANK ORDER	COUNTY OF RESIDENCE	2012 POPULATION	2011-2013 DEATHS (AVERAGE)	CRUDE DEATHRATE	AGE-ADJUSTED DEATHRATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
1	SIERRA	3,089	0.0	-	-	-	-
2	ALPINE	1,127	0.0	-	-	-	-
3	MONO	14,258	0.7	4.7 *	5.1 *	0.0	38.1
4	PLUMAS	19,523	2.3	12.0 *	8.3 *	1.3	27.4
5	LASSEN	33,650	3.0	8.9 *	8.6 *	1.8	25.2
6	COLUSA	21,614	2.0	9.3 *	8.9 *	1.1	32.3
7	SUTTER	95,351	10.0	10.5 *	9.8 *	4.7	18.0
8	MARIN	254,882	38.0	14.9	10.3	7.3	14.1
9	EL DORADO	180,599	23.7	13.1	10.6	6.7	15.8
10	MONTEREY	422,868	42.7	10.1	10.8	7.8	14.6
11	NAPA	138,577	19.3	14.0 *	10.8 *	6.6	16.9
12	IMPERIAL	178,659	18.0	10.1 *	11.1 *	6.6	17.5
13	SANTA CLARA	1,828,597	208.7	11.4	11.5	10.0	13.1
14	PLACER	360,680	51.3	14.2	11.5	8.6	15.2
15	SAN MATEO	736,362	101.0	13.7	11.6	9.3	13.9
16	GLENN	28,208	3.7	13.0 *	11.8 *	3.0	31.3
17	ORANGE	3,071,933	390.7	12.7	12.2	11.0	13.5
18	TULARE	451,627	46.0	10.2	12.2	9.0	16.3
19	MENDOCINO	88,566	14.0	15.8 *	12.3 *	6.7	20.6
20	AMADOR	36,899	8.3	22.6 *	12.6 *	5.5	24.4
21	KERN	855,522	89.3	10.4	12.7	10.2	15.7
22	CALAVERAS	45,045	9.3	20.7 *	12.7 *	5.9	23.9
23	SAN BENITO	56,527	6.0	10.6 *	12.8 *	4.7	27.9
24	SANTA CRUZ	267,569	35.7	13.3	13.0	9.1	18.0
25	NEVADA	98,202	19.0	19.3 *	13.1 *	7.9	20.4
26	MARIPOSA	17,817	4.0	22.5 *	13.1 *	3.6	33.6
27	ALAMEDA	1,540,790	208.7	13.5	13.3	11.5	15.2
28	BUTTE	221,118	39.0	17.6	13.3	9.5	18.2
29	FRESNO	946,823	113.3	12.0	13.4	10.9	15.9
30	SANTA BARBARA	427,358	61.7	14.4	13.4	10.3	17.2
31	KINGS	150,843	15.3	10.2 *	13.5 *	7.6	22.2
32	VENTURA	834,109	116.7	14.0	13.5	11.0	16.0
33	DEL NORTE	28,359	4.7	16.5 *	13.7 *	4.2	32.8
34	SAN LUIS OBISPO	271,021	48.7	18.0	13.8	10.2	18.3
35	YOLO	204,314	25.0	12.2	13.8	9.0	20.4
36	YUBA	73,021	9.3	12.8 *	13.9 *	6.5	26.1
	<b>CALIFORNIA</b>	<b>37,826,160</b>	<b>5,301.3</b>	<b>14.0</b>	<b>13.9</b>	<b>13.5</b>	<b>14.3</b>
37	SISKIYOU	44,598	9.3	20.9 *	14.1 *	6.5	26.4
38	SAN DIEGO	3,147,220	448.3	14.2	14.1	12.8	15.4
39	SAN FRANCISCO	820,349	135.3	16.5	14.2	11.7	16.6
40	MADERA	151,790	20.3	13.4	14.2	8.7	21.8
41	LOS ANGELES	9,911,665	1,392.3	14.0	14.4	13.6	15.2
42	SONOMA	489,283	86.7	17.7	14.5	11.6	17.9
	<b>HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: C-5</b>				<b>14.5</b>		
43	RIVERSIDE	2,244,399	324.3	14.5	14.7	13.1	16.3
44	CONTRA COSTA	1,069,803	175.3	16.4	14.9	12.7	17.2
45	LAKE	64,394	14.0	21.7 *	15.3 *	8.4	25.7
46	SAN JOAQUIN	699,003	100.3	14.4	15.5	12.4	18.5
47	SOLANO	415,913	66.7	16.0	15.5	12.0	19.7
48	HUMBOLDT	134,923	23.3	17.3	15.6	9.9	23.3
49	INYO	18,637	4.3	23.3 *	16.2 *	4.7	40.0
50	SACRAMENTO	1,439,874	230.7	16.0	16.2	14.1	18.3
51	MERCED	261,708	35.3	13.5	16.4	11.4	22.7
52	TRINITY	13,470	3.3	24.7 *	16.5 *	3.8	45.9
53	SAN BERNARDINO	2,065,016	283.0	13.7	16.7	14.7	18.7
54	STANISLAUS	522,651	83.3	15.9	17.0	13.5	21.0
55	TUOLUMNE	54,339	14.3	26.4 *	17.8 *	9.8	29.6
56	SHASTA	178,477	43.7	24.5	17.9	13.0	24.0
57	TEHAMA	63,623	15.0	23.6 *	19.0 *	10.6	31.3
58	MODOC	9,518	3.0	31.5 *	19.1 *	3.9	55.9

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

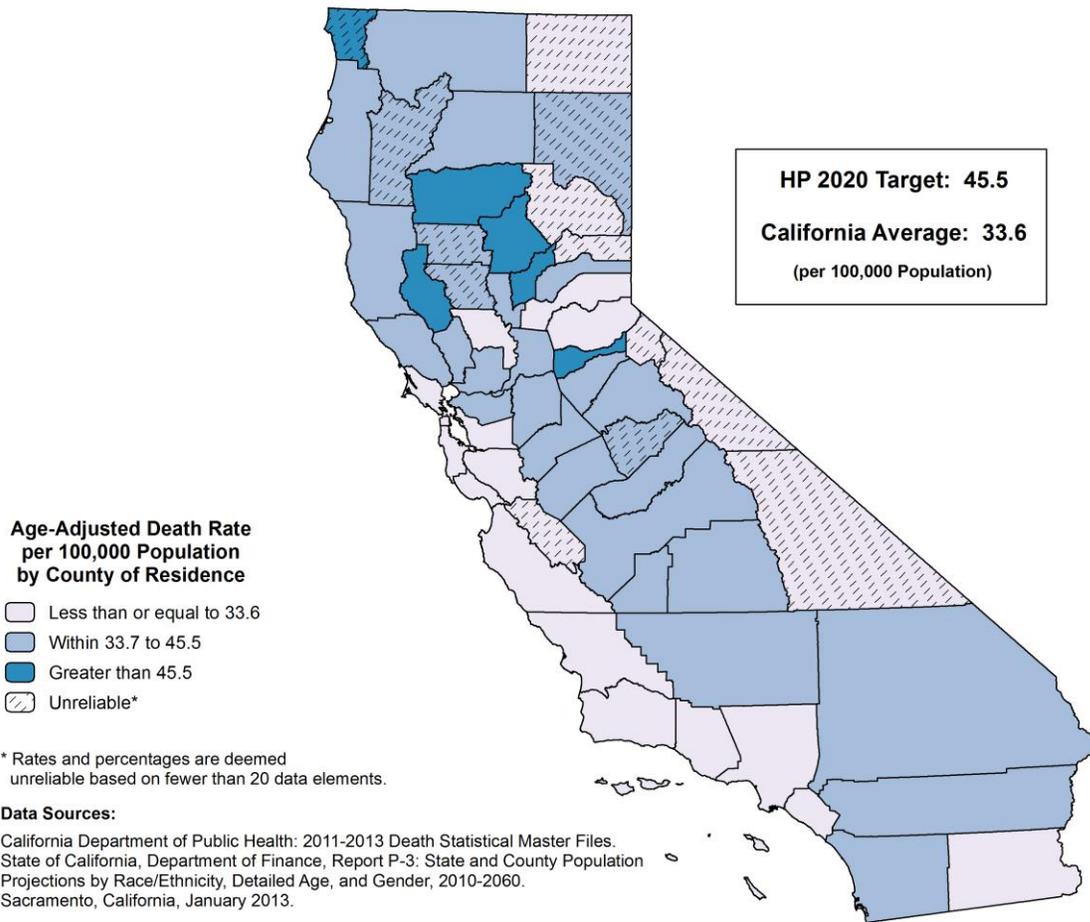
\* Rates are deemed unreliable based on fewer than 20 data elements.

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

Sources: California Department of Public Health, 2011-2013 Death Statistical Master Files.

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, January 2013.

## DEATHS DUE TO LUNG CANCER, 2011-2013



The crude death rate from lung cancer for California was 33.1 deaths per 100,000 population, a risk of dying from lung cancer equivalent to approximately one death for every 3,021.1 persons. This rate was based on the 2011 through 2013 three-year average number of deaths equaling 12,520.7 and a population count of 37,826,160 as of July 1, 2012. Among counties with reliable rates, the crude rate ranged from 90.3 in Amador County to 22.0 in Imperial County, a factor of 4.1 to 1.

The age-adjusted death rate from lung cancer for California during the 2011 through 2013 three-year period was 33.6 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 54.1 in Lake County to 24.5 in Imperial County.

Forty 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 twelve counties with unreliable rates met the objective.

The California average age-adjusted death rate from lung cancer for the 2008-2010 period was 37.1.

**TABLE 4  
DEATHS DUE TO LUNG CANCER  
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE  
CALIFORNIA COUNTIES, 2011-2013**

RANK ORDER	COUNTY OF RESIDENCE	2012 POPULATION	2011-2013 DEATHS (AVERAGE)	CRUDE DEATH RATE	AGE-ADJUSTED DEATH RATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
1	MONO	14,258	1.7	11.7 *	14.3 *	1.3	57.4
2	MODOC	9,518	3.3	35.0 *	21.6 *	5.0	59.9
3	IMPERIAL	178,659	39.3	22.0	24.5	17.4	33.4
4	SAN BENITO	56,527	13.3	23.6 *	25.2 *	13.5	42.8
5	PLUMAS	19,523	8.7	44.4 *	25.5 *	11.5	49.0
6	SANTA BARBARA	427,358	122.7	28.7	26.7	22.0	31.5
7	SANTA CRUZ	267,569	69.0	25.8	26.8	20.9	33.9
8	SANTA CLARA	1,828,597	474.7	26.0	27.2	24.7	29.6
9	VENTURA	834,109	241.3	28.9	28.5	24.8	32.1
10	MARIN	254,882	101.0	39.6	28.6	22.9	34.3
11	SAN MATEO	736,362	241.0	32.7	28.9	25.2	32.6
12	SIERRA	3,089	1.7	54.0 *	29.6 *	2.6	118.8
13	LOS ANGELES	9,911,665	2,804.3	28.3	29.8	28.7	30.9
14	MONTEREY	422,868	116.0	27.4	29.9	24.4	35.4
15	ALPINE	1,127	0.7	59.2 *	30.9 *	0.2	230.8
16	EL DORADO	180,599	73.3	40.6	31.1	24.4	39.0
17	ORANGE	3,071,933	970.0	31.6	31.6	29.6	33.6
18	ALAMEDA	1,540,790	487.3	31.6	32.2	29.3	35.1
19	YOLO	204,314	58.3	28.6	32.5	24.7	42.0
20	PLACER	360,680	147.0	40.8	32.7	27.4	38.0
21	SAN LUIS OBISPO	271,021	115.0	42.4	32.9	26.8	39.0
22	INYO	18,637	9.7	51.9 *	33.3 *	15.7	61.8
23	SAN FRANCISCO	820,349	315.3	38.4	33.6	29.8	37.3
	<b>CALIFORNIA</b>	<b>37,826,160</b>	<b>12,520.7</b>	<b>33.1</b>	<b>33.6</b>	<b>33.0</b>	<b>34.2</b>
24	TUOLUMNE	54,339	31.7	58.3	34.1	23.2	48.2
25	NEVADA	98,202	53.3	54.3	34.2	25.6	44.6
26	MADERA	151,790	50.7	33.4	35.1	26.1	46.3
27	SONOMA	489,283	209.3	42.8	35.4	30.5	40.4
28	KINGS	150,843	37.7	25.0	35.5	25.1	48.8
29	FRESNO	946,823	293.7	31.0	35.6	31.5	39.7
30	SAN DIEGO	3,147,220	1,095.3	34.8	35.6	33.5	37.8
31	RIVERSIDE	2,244,399	792.7	35.3	35.8	33.3	38.3
32	LASSEN	33,650	10.7	31.7 *	36.1 *	17.8	65.2
33	CONTRA COSTA	1,069,803	418.7	39.1	36.4	32.9	40.0
34	TULARE	451,627	136.3	30.2	37.1	30.8	43.4
35	SAN BERNARDINO	2,065,016	623.0	30.2	37.4	34.4	40.5
36	MARIPOSA	17,817	11.7	65.5 *	38.2 *	19.5	67.3
37	NAPA	138,577	66.7	48.1	38.5	29.8	48.9
38	MERCED	261,708	84.0	32.1	39.1	31.2	48.4
39	HUMBOLDT	134,923	63.0	46.7	39.6	30.4	50.7
40	KERN	855,522	278.0	32.5	40.6	35.7	45.5
41	STANISLAUS	522,651	200.3	38.3	41.1	35.3	46.8
42	MENDOCINO	88,566	48.7	54.9	41.1	30.4	54.4
43	SACRAMENTO	1,439,874	583.0	40.5	41.2	37.8	44.6
44	CALAVERAS	45,045	33.0	73.3	41.3	28.5	58.1
45	COLUSA	21,614	8.7	40.1 *	42.0 *	18.9	80.7
46	SHASTA	178,477	106.7	59.8	42.6	34.4	50.8
47	GLENN	28,208	13.7	48.4 *	42.8 *	23.2	72.2
48	SAN JOAQUIN	699,003	273.3	39.1	43.2	38.0	48.4
49	SOLANO	415,913	188.3	45.3	43.6	37.3	50.0
50	SUTTER	95,351	44.3	46.5	43.8	31.9	58.7
51	SISKIYOU	44,598	32.0	71.8	43.9	30.0	61.9
52	TRINITY	13,470	9.7	71.8 *	45.1 *	21.3	83.8
	<b>HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: C-2</b>				<b>45.5</b>		
53	BUTTE	221,118	128.0	57.9	45.7	37.6	53.7
54	DEL NORTE	28,359	16.7	58.8 *	50.9 *	29.5	81.8
55	YUBA	73,021	33.7	46.1	51.4	35.5	71.9
56	AMADOR	36,899	33.3	90.3	51.4	35.5	72.1
57	TEHAMA	63,623	44.3	69.7	53.4	38.9	71.7
58	LAKE	64,394	52.0	80.8	54.1	40.4	71.0

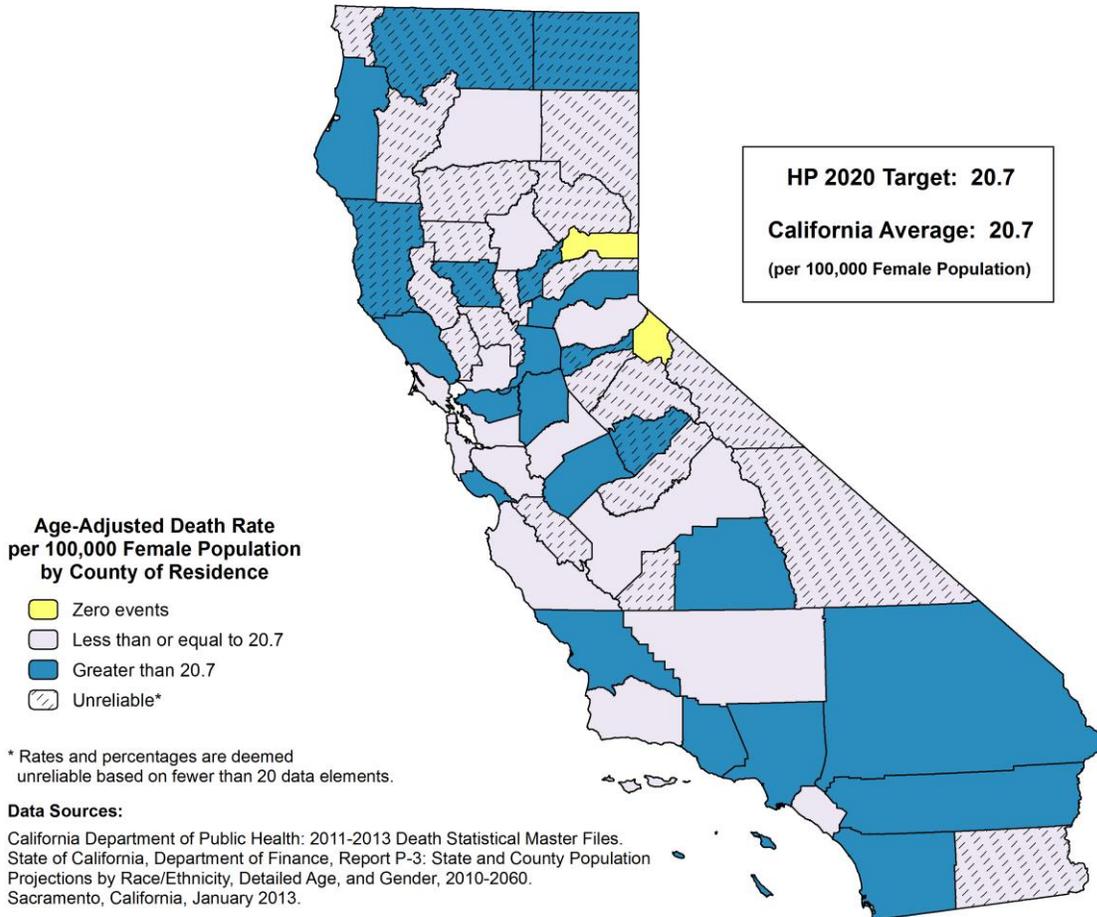
\* Rates are deemed unreliable based on fewer than 20 data elements.

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

Sources: California Department of Public Health, 2011-2013 Death Statistical Master Files.

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, January 2013.

## DEATHS DUE TO FEMALE BREAST CANCER, 2011-2013



The crude death rate from female breast cancer for California was 22.9 deaths per 100,000 female population, a risk of dying from breast cancer equivalent to approximately one death for every 4,361.8 females. This rate was based on a 2011 through 2013 three-year average number of deaths equaling 4,357.0 and a female population count of 19,004,453 as of July 1, 2012. Among counties with reliable rates, the crude rate ranged from 34.9 in Humboldt County to 18.8 in Kern County, a factor of 1.9 to 1.

The age-adjusted death rate from female breast cancer for California during the 2011 through 2013 three-year period was 20.7 deaths per 100,000 female population. Reliable age-adjusted death rates ranged from 27.2 in Humboldt County to 17.3 in Santa Clara County.

Fifteen 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 and two counties with no female breast cancer deaths met the objective.

The California average age-adjusted death rate for female breast cancer for the 2008-2010 period was 21.4.

**TABLE 5  
DEATHS DUE TO FEMALE BREAST CANCER  
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE  
CALIFORNIA COUNTIES, 2011-2013**

RANK ORDER	COUNTY OF RESIDENCE	2012 FEMALE POPULATION	2011-2013 DEATHS (AVERAGE)	CRUDE DEATHRATE	AGE-ADJUSTED DEATHRATE	95% CONFIDENCE LIMITS		
						LOWER	UPPER	
1	SIERRA	1,519	0.0	-	-	-	-	
2	ALPINE	546	0.0	-	-	-	-	
3	LASSEN	12,052	1.3	11.1 *	7.8 *	0.4	35.9	
4	DEL NORTE	12,583	1.7	13.2 *	8.7 *	0.8	35.1	
5	SUTTER	47,959	8.7	18.1 *	15.7 *	7.1	30.2	
6	NAPA	69,317	15.3	22.1 *	15.9 *	9.0	26.1	
7	IMPERIAL	86,807	14.3	16.5 *	17.1 *	9.5	28.6	
8	SANTA CLARA	910,588	172.7	19.0	17.3	14.7	19.9	
9	TEHAMA	31,933	7.7	24.0 *	17.3 *	7.3	34.6	
10	YOLO	104,849	17.7	16.8 *	17.5 *	10.3	27.8	
11	INYO	9,155	3.0	32.8 *	17.8 *	3.7	51.9	
12	EL DORADO	90,366	22.0	24.3	17.8	11.2	26.9	
13	MADERA	77,903	14.0	18.0 *	17.9 *	9.8	30.0	
14	MARIN	129,782	35.0	27.0	18.2	12.7	25.3	
15	NEVADA	49,760	15.3	30.8 *	18.3 *	10.3	30.1	
16	ORANGE	1,551,728	324.7	20.9	18.4	16.4	20.4	
17	SAN BENITO	28,520	5.7	19.9 *	18.5 *	6.6	41.2	
18	CALAVERAS	22,504	7.0	31.1 *	18.6 *	7.5	38.3	
19	SAN FRANCISCO	404,481	92.7	22.9	18.8	15.2	23.0	
20	SAN MATEO	373,751	91.7	24.5	19.1	15.4	23.5	
21	MONTEREY	205,642	42.7	20.7	19.1	13.8	25.8	
22	KINGS	65,199	11.0	16.9 *	19.3 *	9.6	34.5	
23	BUTTE	111,718	29.0	26.0	19.4	13.0	27.9	
24	TUOLUMNE	25,755	8.7	33.7 *	19.6 *	8.8	37.7	
25	SHASTA	90,724	27.3	30.1	19.9	13.2	28.9	
26	MONO	6,708	1.0	14.9 *	20.0 *	0.5	111.2	
27	PLUMAS	9,754	3.7	37.6 *	20.0 *	5.0	53.2	
28	LAKE	31,979	10.0	31.3 *	20.0 *	9.6	36.9	
29	FRESNO	472,880	91.0	19.2	20.1	16.2	24.7	
30	STANISLAUS	263,727	54.7	20.7	20.3	15.3	26.5	
31	TRINITY	6,535	2.3	35.7 *	20.4 *	3.1	67.6	
32	KERN	414,401	78.0	18.8	20.6	16.3	25.7	
33	SANTA BARBARA	212,745	51.0	24.0	20.6	15.4	27.1	
34	ALAMEDA	784,841	181.3	23.1	20.6	17.6	23.7	
35	GLENN	13,952	3.3	23.9 *	20.7 *	4.8	57.4	
36	SOLANO	207,888	49.0	23.6	20.7	15.3	27.4	
	<b>CALIFORNIA</b>	<b>19,004,453</b>	<b>4,357.0</b>	<b>22.9</b>	<b>20.7</b>	<b>20.1</b>	<b>21.3</b>	
	<b>HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: C-3</b>					<b>20.7</b>		
37	MERCED	129,680	25.0	19.3	21.1	13.7	31.2	
38	SAN DIEGO	1,566,759	367.3	23.4	21.2	19.0	23.4	
39	TULARE	224,965	43.7	19.4	21.2	15.4	28.5	
40	VENTURA	419,588	103.7	24.7	21.2	17.1	25.4	
41	LOS ANGELES	5,017,718	1,151.7	23.0	21.3	20.0	22.5	
42	RIVERSIDE	1,126,765	254.3	22.6	21.3	18.7	24.0	
43	MARIPOSA	8,793	3.3	37.9 *	21.4 *	4.9	59.5	
44	SAN JOAQUIN	350,430	78.3	22.4	21.7	17.2	27.1	
45	SANTA CRUZ	134,037	35.0	26.1	21.8	15.2	30.3	
46	SAN LUIS OBISPO	132,628	40.7	30.7	22.0	15.8	29.9	
47	CONTRA COSTA	547,543	146.3	26.7	22.1	18.4	25.8	
48	SACRAMENTO	733,152	179.0	24.4	22.3	19.0	25.6	
49	YUBA	36,138	8.0	22.1 *	22.6 *	9.7	44.5	
50	PLACER	184,687	54.3	29.4	22.8	17.2	29.8	
51	SONOMA	248,200	75.7	30.5	23.4	18.4	29.3	
52	SAN BERNARDINO	1,037,423	232.0	22.4	23.5	20.4	26.6	
53	MENDOCINO	44,094	15.0	34.0 *	23.6 *	13.2	39.0	
54	COLUSA	10,507	2.7	25.4 *	26.4 *	4.8	81.8	
55	HUMBOLDT	66,892	23.3	34.9	27.2	17.3	40.7	
56	AMADOR	16,873	8.3	49.4 *	27.7 *	12.2	53.9	
57	SISKIYOU	22,274	12.3	55.4 *	32.6 *	17.0	56.5	
58	MODOC	4,756	2.7	56.1 *	42.4 *	7.6	131.4	

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

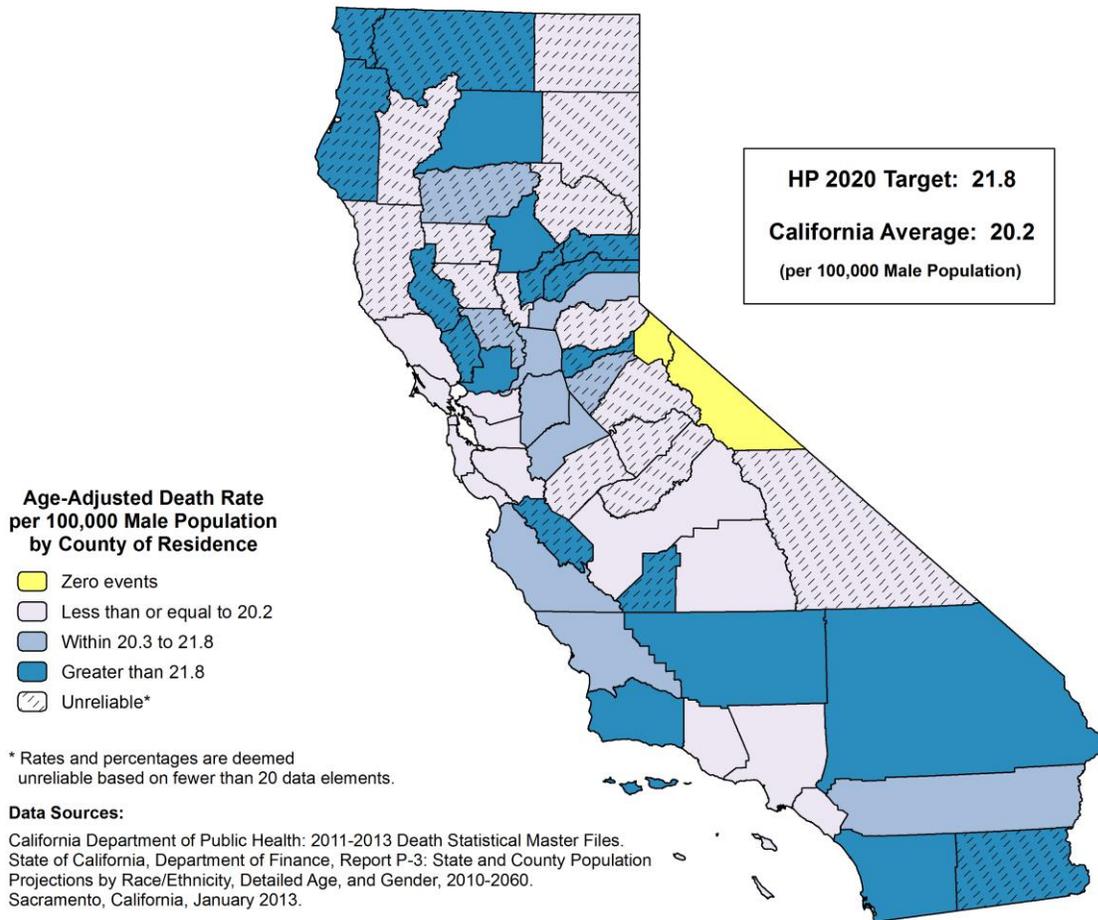
\* Rates are deemed unreliable based on fewer than 20 data elements.

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

Sources: California Department of Public Health, 2011-2013 Death Statistical Master Files.

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, January 2013.

## DEATHS DUE TO PROSTATE CANCER, 2011-2013



The crude death rate from male prostate cancer for California was 16.2 deaths per 100,000 male population, a risk of dying from prostate cancer equivalent to approximately one death for every 6,171.1 males. This rate was based on a 2011 through 2013 three-year average number of deaths equaling 3,050.0 and a male population count of 18,821,707 as of July 1, 2012. Among counties with reliable rates, the crude rate ranged from 30.0 in Shasta County to 12.9 in Tulare County, a factor of 2.3 to 1.

The age-adjusted death rate from male prostate cancer for California during the 2011 through 2013 three-year period was 20.2 deaths per 100,000 male population. Reliable age-adjusted death rates ranged from 25.5 in Shasta County to 14.5 in San Francisco County.

Twenty 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 seventeen counties with unreliable rates and two counties with no prostate cancer deaths met the objective.

The California average age-adjusted death rate from male prostate cancer for the 2008-2010 period was 21.7.

**TABLE 6  
DEATHS DUE TO PROSTATE CANCER  
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE  
CALIFORNIA COUNTIES, 2011-2013**

RANK ORDER	COUNTY OF RESIDENCE	2012 MALE POPULATION	2011-2013 DEATHS (AVERAGE)	CRUDE DEATH RATE	AGE-ADJUSTED DEATH RATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
1	MONO	7,550	0.0	-	-	-	-
2	ALPINE	581	0.0	-	-	-	-
3	GLENN	14,256	1.3	9.4 *	9.6 *	0.5	44.3
4	LASSEN	21,598	1.3	6.2 *	10.3 *	0.6	47.5
5	INYO	9,482	1.3	14.1 *	10.5 *	0.6	48.6
6	PLUMAS	9,769	2.0	20.5 *	13.1 *	1.6	47.4
7	SAN FRANCISCO	415,868	58.7	14.1	14.5	11.1	18.8
8	TUOLUMNE	28,584	6.0	21.0 *	15.4 *	5.6	33.5
9	MARIN	125,100	23.3	18.7	16.2	10.3	24.2
10	MODOC	4,762	1.0	21.0 *	16.7 *	0.4	93.1
11	MADERA	73,887	11.0	14.9 *	17.2 *	8.6	30.7
12	SUTTER	47,392	7.0	14.8 *	17.5 *	7.0	36.1
13	COLUSA	11,107	1.7	15.0 *	17.6 *	1.6	70.8
14	SANTA CLARA	918,009	125.0	13.6	17.8	14.6	20.9
15	SAN MATEO	362,611	60.3	16.6	17.8	13.6	22.9
16	TRINITY	6,935	2.0	28.8 *	18.4 *	2.2	66.5
17	SONOMA	241,083	44.3	18.4	18.5	13.5	24.9
18	MENDOCINO	44,472	9.3	21.0 *	18.6 *	8.6	34.9
19	MERCED	132,028	15.7	11.9 *	19.0 *	10.8	31.0
20	LOS ANGELES	4,893,947	721.0	14.7	19.2	17.8	20.6
21	ORANGE	1,520,205	235.7	15.5	19.2	16.7	21.7
22	FRESNO	473,943	65.3	13.8	19.3	14.9	24.5
23	MARIPOSA	9,024	2.3	25.9 *	19.4 *	2.9	64.3
24	CONTRA COSTA	522,260	92.0	17.6	19.6	15.8	24.1
25	VENTURA	414,521	67.7	16.3	19.9	15.5	25.3
26	TULARE	226,662	29.3	12.9	20.1	13.5	28.8
27	ALAMEDA	755,949	120.0	15.9	20.2	16.5	23.9
28	EL DORADO	90,233	18.7	20.7 *	20.2 *	12.1	31.7
29	SANTA CRUZ	133,532	22.7	17.0	20.2	12.8	30.4
	<b>CALIFORNIA</b>	<b>18,821,707</b>	<b>3,050.0</b>	<b>16.2</b>	<b>20.2</b>	<b>19.5</b>	<b>20.9</b>
30	MONTEREY	217,226	31.3	14.4	20.3	13.8	28.8
31	TEHAMA	31,690	7.3	23.1 *	20.5 *	8.4	41.5
32	SAN JOAQUIN	348,573	51.3	14.7	20.5	15.3	27.0
33	CALAVERAS	22,541	7.0	31.1 *	20.6 *	8.3	42.5
34	SAN LUIS OBISPO	138,393	31.0	22.4	20.7	14.1	29.4
35	YOLO	99,465	14.7	14.7 *	21.1 *	11.7	35.0
36	PLACER	175,993	39.0	22.2	21.2	15.1	29.0
37	RIVERSIDE	1,117,634	199.7	17.9	21.3	18.3	24.2
38	SACRAMENTO	706,722	119.3	16.9	21.5	17.6	25.4
39	STANISLAUS	258,924	43.0	16.6	21.7	15.7	29.2
	<b>HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: C-7</b>				<b>21.8</b>		
40	SAN DIEGO	1,580,461	287.3	18.2	22.2	19.6	24.8
41	KERN	441,121	59.0	13.4	22.3	17.0	28.8
42	IMPERIAL	91,852	15.3	16.7 *	22.4 *	12.6	36.7
43	KINGS	85,644	9.3	10.9 *	22.5 *	10.5	42.3
44	AMADOR	20,026	6.3	31.6 *	23.0 *	8.7	49.1
45	SOLANO	208,025	38.0	18.3	23.2	16.4	31.8
46	SAN BERNARDINO	1,027,593	147.7	14.4	23.3	19.4	27.2
47	NAPA	69,260	17.7	25.5 *	23.4 *	13.8	37.2
48	LAKE	32,415	9.7	29.8 *	24.4 *	11.5	45.4
49	SANTA BARBARA	214,613	48.3	22.5	24.5	18.1	32.4
50	BUTTE	109,400	31.0	28.3	25.0	17.0	35.5
51	SHASTA	87,753	26.3	30.0	25.5	16.7	37.2
52	NEVADA	48,442	18.3	37.8 *	25.9 *	15.4	40.7
53	HUMBOLDT	68,031	16.3	24.0 *	26.3 *	15.1	42.5
54	DEL NORTE	15,776	4.0	25.4 *	28.5 *	7.8	72.9
55	YUBA	36,883	8.0	21.7 *	31.1 *	13.4	61.3
56	SISKIYOU	22,324	10.0	44.8 *	31.3 *	15.0	57.5
57	SAN BENITO	28,007	6.3	22.6 *	33.7 *	12.8	71.8
58	SIERRA	1,570	1.3	84.9 *	57.4 *	3.2	264.1

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

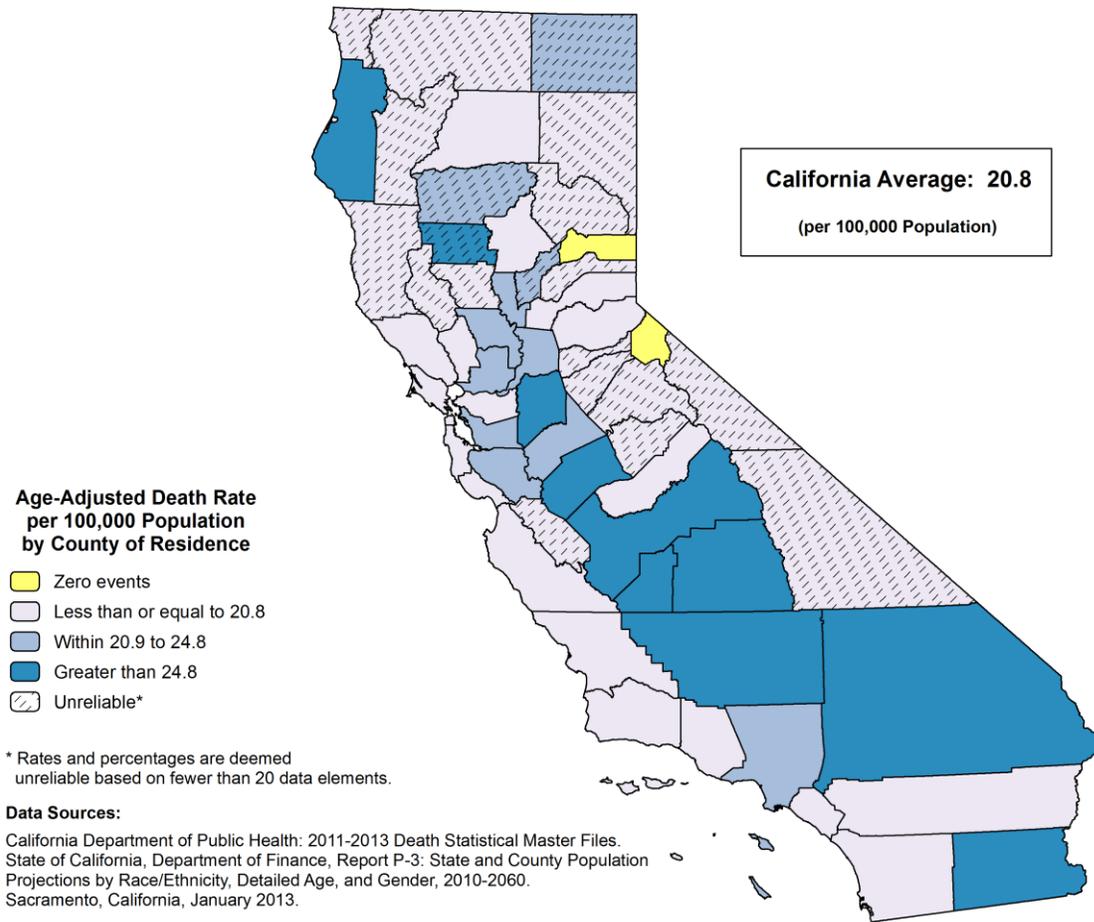
\* Rates are deemed unreliable based on fewer than 20 data elements.

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

Sources: California Department of Public Health, 2011-2013 Death Statistical Master Files.

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, January 2013.

## DEATHS DUE TO DIABETES, 2011-2013



The crude death rate from diabetes for California was 20.7 deaths per 100,000 population, a risk of dying from diabetes equivalent to approximately one death for every 4,823.1 persons. This rate was based on a 2011 through 2013 three-year average number of deaths equaling 7,842.7 and a population count of 37,826,160 as of July 1, 2012. Among counties with reliable rates, the crude rate ranged from 30.1 in Humboldt County to 12.7 in El Dorado County, a factor of 2.4 to 1.

The age-adjusted death rate from diabetes for California during the 2011 through 2013 three-year period was 20.8 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 34.7 in Kern County to 8.9 in Marin County.

The Healthy People 2020 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 average age-adjusted death rate from diabetes for the 2008-2010 period was 20.1.

**TABLE 7  
DEATHS DUE TO DIABETES  
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE  
CALIFORNIA COUNTIES, 2011-2013**

RANK ORDER	COUNTY OF RESIDENCE	2012 POPULATION	2011-2013 DEATHS (AVERAGE)	CRUDE DEATH RATE	AGE-ADJUSTED DEATH RATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
<b>HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: D-3 NOT APPLICABLE</b>							
1	SIERRA	3,089	0.0	-	-	-	-
2	ALPINE	1,127	0.0	-	-	-	-
3	AMADOR	36,899	4.7	12.6 *	7.6 *	2.3	18.2
4	MARIN	254,882	33.0	12.9	8.9	6.1	12.5
5	NEVADA	98,202	13.7	13.9 *	9.3 *	5.0	15.7
6	EL DORADO	180,599	23.0	12.7	10.6	6.7	15.9
7	NAPA	138,577	20.3	14.7	11.4	7.0	17.5
8	SAN FRANCISCO	820,349	114.3	13.9	11.8	9.6	14.0
9	INYO	18,637	3.7	19.7 *	11.8 *	3.0	31.5
10	SAN MATEO	736,362	104.0	14.1	12.2	9.8	14.6
11	PLUMAS	19,523	4.0	20.5 *	12.6 *	3.4	32.4
12	TRINITY	13,470	3.0	22.3 *	13.1 *	2.7	38.3
13	SANTA CRUZ	267,569	37.7	14.1	13.4	9.5	18.5
14	SAN LUIS OBISPO	271,021	45.7	16.8	13.6	9.9	18.1
15	COLUSA	21,614	3.0	13.9 *	14.3 *	2.9	41.7
16	CALAVERAS	45,045	11.0	24.4 *	14.4 *	7.2	25.8
17	PLACER	360,680	63.3	17.6	14.4	11.1	18.4
18	MARIPOSA	17,817	3.0	16.8 *	14.7 *	3.0	42.9
19	SANTA BARBARA	427,358	68.7	16.1	14.7	11.4	18.6
20	ORANGE	3,071,933	470.3	15.3	15.0	13.6	16.4
21	MENDOCINO	88,566	17.3	19.6 *	15.6 *	9.1	24.8
22	SAN BENITO	56,527	8.0	14.2 *	15.8 *	6.8	31.2
23	CONTRA COSTA	1,069,803	194.3	18.2	16.6	14.2	18.9
24	VENTURA	834,109	142.7	17.1	16.6	13.8	19.3
25	TUOLUMNE	54,339	14.7	27.0 *	16.8 *	9.3	27.8
26	MADERA	151,790	23.7	15.6	16.8	10.7	25.0
27	DEL NORTE	28,359	5.3	18.8 *	16.9 *	5.7	38.5
28	SHASTA	178,477	40.7	22.8	17.1	12.2	23.2
29	MONO	14,258	1.3	9.4 *	17.2 *	1.0	79.2
30	BUTTE	221,118	49.3	22.3	17.5	13.0	23.1
31	SONOMA	489,283	107.0	21.9	18.2	14.6	21.7
32	LAKE	64,394	16.3	25.4 *	19.2 *	11.1	31.1
33	LASSEN	33,650	5.7	16.8 *	19.4 *	6.9	43.1
34	RIVERSIDE	2,244,399	429.0	19.1	19.4	17.6	21.3
35	MONTEREY	422,868	77.0	18.2	19.5	15.4	24.4
36	SAN DIEGO	3,147,220	615.7	19.6	19.6	18.0	21.1
37	SISKIYOU	44,598	13.3	29.9 *	20.1 *	10.8	34.1
	<b>CALIFORNIA</b>	<b>37,826,160</b>	<b>7,842.7</b>	<b>20.7</b>	<b>20.8</b>	<b>20.3</b>	<b>21.3</b>
38	ALAMEDA	1,540,790	323.3	21.0	21.0	18.7	23.3
39	YUBA	73,021	13.7	18.7 *	21.0 *	11.4	35.4
40	STANISLAUS	522,651	103.7	19.8	21.2	17.1	25.4
41	SUTTER	95,351	21.7	22.7	21.3	13.3	32.4
42	TEHAMA	63,623	17.0	26.7 *	21.7 *	12.6	34.8
43	SANTA CLARA	1,828,597	392.3	21.5	22.4	20.2	24.7
44	SACRAMENTO	1,439,874	329.7	22.9	22.9	20.4	25.4
45	LOS ANGELES	9,911,665	2,190.3	22.1	23.0	22.0	24.0
46	YOLO	204,314	42.3	20.7	23.6	17.0	31.9
47	MODOC	9,518	3.7	38.5 *	24.5 *	6.2	65.3
48	SOLANO	415,913	105.0	25.2	24.8	20.0	29.6
49	TULARE	451,627	95.3	21.1	25.8	20.8	31.5
50	HUMBOLDT	134,923	40.7	30.1	26.7	19.1	36.3
51	MERCED	261,708	59.3	22.7	28.0	21.3	36.0
52	SAN JOAQUIN	699,003	188.7	27.0	29.0	24.8	33.2
53	FRESNO	946,823	244.0	25.8	29.1	25.4	32.8
54	IMPERIAL	178,659	47.0	26.3	29.5	21.7	39.3
55	KINGS	150,843	35.3	23.4	32.3	22.5	44.9
56	GLENN	28,208	10.3	36.6 *	32.5 *	15.8	59.2
57	SAN BERNARDINO	2,065,016	555.3	26.9	33.0	30.2	35.8
58	KERN	855,522	236.3	27.6	34.7	30.2	39.2

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

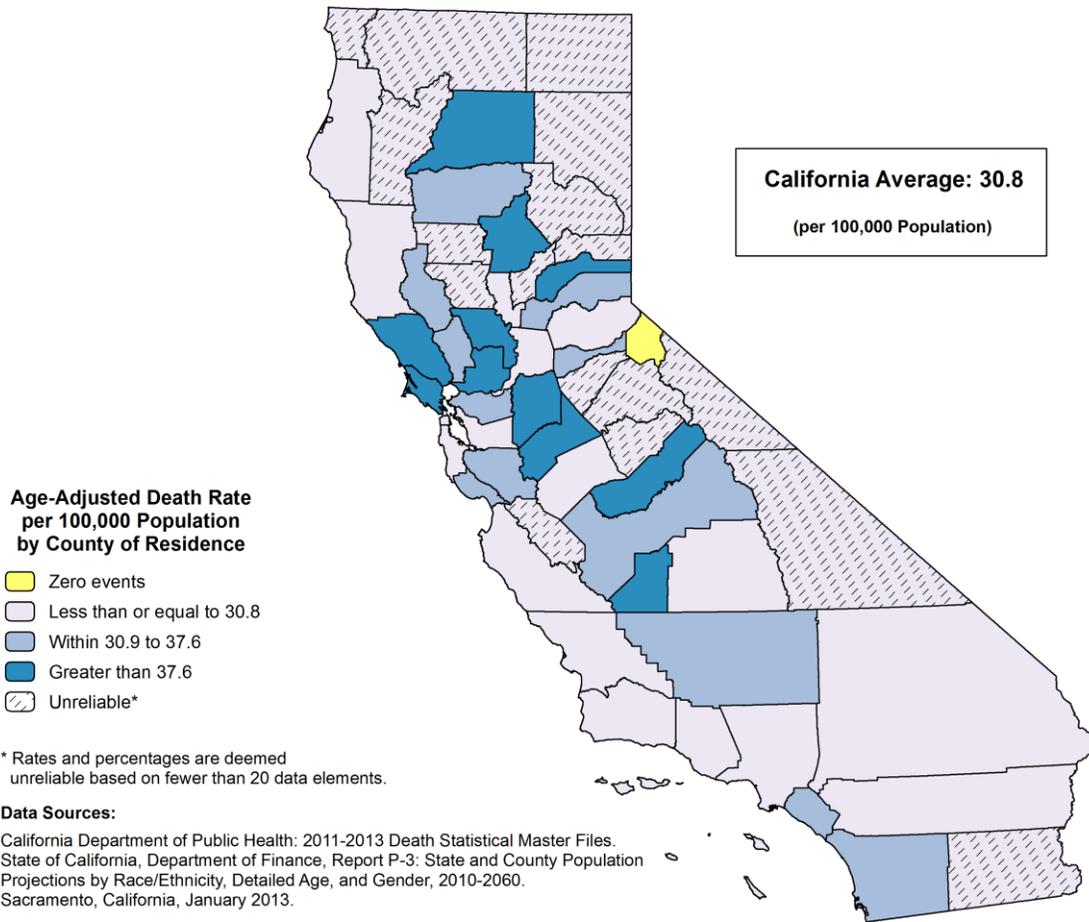
\* Rates are deemed unreliable based on fewer than 20 data elements.

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

Sources: California Department of Public Health, 2011-2013 Death Statistical Master Files.

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, January 2013.

## DEATHS DUE TO ALZHEIMER'S DISEASE, 2011-2013



The crude death rate from Alzheimer's disease for California was 30.9 deaths per 100,000 population, a risk of dying from Alzheimer's disease equivalent to approximately one death for every 3,239.6 persons. This rate was based on a 2011 through 2013 three-year average number of deaths equaling 11,676.3 and a population count of 37,826,160 as of July 1, 2012. Among counties with reliable rates, the crude rate ranged from 67.9 in Nevada County to 17.6 in Tulare County, a factor of 3.9 to 1.

The age-adjusted death rate from Alzheimer's disease for California during the 2011 through 2013 three-year period was 30.8 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 45.4 in Solano County to 19.1 in Mendocino County.

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

The California average age-adjusted death rate from Alzheimer's disease for the 2008-2010 period was 28.9.

**TABLE 8  
DEATHS DUE TO ALZHEIMER'S DISEASE  
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE  
CALIFORNIA COUNTIES, 2011-2013**

RANK ORDER	COUNTY OF RESIDENCE	2012 POPULATION	2011-2013 DEATHS (AVERAGE)	CRUDE DEATHRATE	AGE-ADJUSTED DEATHRATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
<b>HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: NOT ESTABLISHED</b>							
1	ALPINE	1,127	0.0	-	-	-	-
2	INYO	18,637	1.3	7.2 *	4.1 *	0.2	19.0
3	MONO	14,258	0.3	2.3 *	5.8 *	0.0	75.4
4	MODOC	9,518	1.0	10.5 *	7.5 *	0.2	41.7
5	SAN BENITO	56,527	5.0	8.8 *	10.2 *	3.3	23.7
6	IMPERIAL	178,659	18.0	10.1 *	11.7 *	6.9	18.4
7	SIERRA	3,089	0.7	21.6 *	14.9 *	0.1	111.1
8	TUOLUMNE	54,339	13.3	24.5 *	15.1 *	8.1	25.7
9	LASSEN	33,650	4.7	13.9 *	17.0 *	5.2	40.8
10	COLUSA	21,614	3.7	17.0 *	17.7 *	4.5	47.0
11	CALAVERAS	45,045	11.7	25.9 *	17.8 *	9.1	31.4
12	MENDOCINO	88,566	21.3	24.1	19.1	11.8	29.0
13	PLUMAS	19,523	5.3	27.3 *	19.2 *	6.5	43.7
14	SAN LUIS OBISPO	271,021	73.0	26.9	19.2	15.1	24.2
15	DEL NORTE	28,359	6.3	22.3 *	20.1 *	7.6	42.8
16	MONTEREY	422,868	84.0	19.9	20.6	16.4	25.5
17	SISKIYOU	44,598	15.7	35.1 *	21.4 *	12.2	35.0
18	YUBA	73,021	12.0	16.4 *	21.7 *	11.2	37.9
19	TULARE	451,627	79.3	17.6	22.6	17.9	28.2
20	MARIPOSA	17,817	6.0	33.7 *	22.7 *	8.3	49.3
21	GLENN	28,208	7.7	27.2 *	25.1 *	10.6	50.2
22	SUTTER	95,351	25.0	26.2	25.2	16.3	37.1
23	LOS ANGELES	9,911,665	2,468.0	24.9	25.7	24.7	26.7
24	SAN FRANCISCO	820,349	295.0	36.0	27.1	24.0	30.2
25	MERCED	261,708	54.0	20.6	27.1	20.4	35.4
26	SACRAMENTO	1,439,874	387.7	26.9	27.2	24.5	29.9
27	ALAMEDA	1,540,790	417.0	27.1	27.2	24.5	29.8
28	EL DORADO	180,599	57.0	31.6	27.6	20.9	35.7
29	TRINITY	13,470	5.7	42.1 *	29.1 *	10.3	64.7
30	HUMBOLDT	134,923	44.7	33.1	29.4	21.4	39.4
31	SAN BERNARDINO	2,065,016	435.0	21.1	29.8	27.0	32.7
32	VENTURA	834,109	262.0	31.4	30.1	26.4	33.8
33	RIVERSIDE	2,244,399	664.3	29.6	30.6	28.2	32.9
34	SANTA BARBARA	427,358	164.7	38.5	30.6	25.9	35.4
35	SAN MATEO	736,362	283.0	38.4	30.7	27.1	34.3
	<b>CALIFORNIA</b>	<b>37,826,160</b>	<b>11,676.3</b>	<b>30.9</b>	<b>30.8</b>	<b>30.3</b>	<b>31.4</b>
36	NAPA	138,577	61.3	44.3	31.0	23.7	39.8
37	SANTA CLARA	1,828,597	556.3	30.4	31.3	28.7	33.9
38	TEHAMA	63,623	25.0	39.3	32.2	20.8	47.5
39	LAKE	64,394	27.3	42.4	32.3	21.4	46.9
40	FRESNO	946,823	282.7	29.9	33.2	29.3	37.1
41	CONTRA COSTA	1,069,803	389.3	36.4	33.2	29.9	36.6
42	AMADOR	36,899	22.3	60.5	34.5	21.7	52.0
43	PLACER	360,680	161.7	44.8	35.2	29.8	40.7
44	ORANGE	3,071,933	1,154.7	37.6	36.6	34.5	38.7
45	KERN	855,522	218.0	25.5	36.8	31.9	41.7
46	SAN DIEGO	3,147,220	1,222.0	38.8	37.1	35.0	39.3
47	SANTA CRUZ	267,569	100.3	37.5	37.6	30.1	45.1
48	MARIN	254,882	145.0	56.9	38.5	32.1	44.8
49	YOLO	204,314	73.0	35.7	39.3	30.8	49.4
50	STANISLAUS	522,651	188.7	36.1	39.3	33.7	44.9
51	SONOMA	489,283	260.0	53.1	40.2	35.2	45.2
52	NEVADA	98,202	66.7	67.9	40.5	31.4	51.5
53	KINGS	150,843	37.3	24.7	40.6	28.7	55.9
54	SHASTA	178,477	104.7	58.6	41.2	33.3	49.2
55	BUTTE	221,118	131.3	59.4	41.3	34.1	48.5
56	MADERA	151,790	56.7	37.3	42.7	32.3	55.4
57	SAN JOAQUIN	699,003	279.0	39.9	44.1	38.9	49.3
58	SOLANO	415,913	179.7	43.2	45.4	38.7	52.1

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

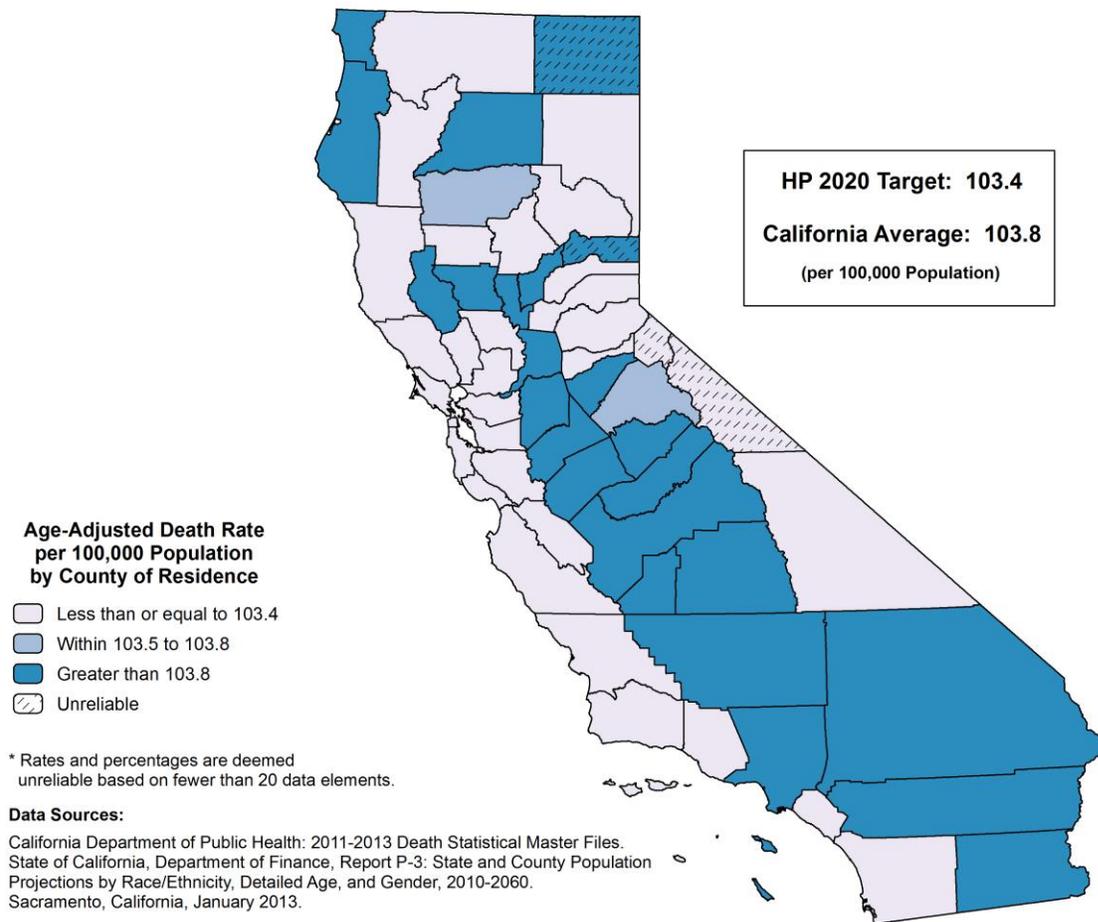
\* Rates are deemed unreliable based on fewer than 20 data elements.

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

Sources: California Department of Public Health, 2011-2013 Death Statistical Master Files.

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, January 2013.

## DEATHS DUE TO CORONARY HEART DISEASE, 2011-2013



The crude death rate from coronary heart disease for California was 104.3 deaths per 100,000 population, a risk of dying from coronary heart disease equivalent to approximately one death for every 958.7 persons. This rate was based on a 2011 through 2013 three-year average number of deaths equaling 39,455.0 and a population count of 37,826,160 as of July 1, 2012. Among counties with reliable rates, the crude rate ranged from 188.9 in Lake County to 62.5 in San Benito County, a factor of 3.0 to 1.

The age-adjusted death rate from coronary heart disease for California during the 2011 through 2013 three-year period was 103.8 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 149.4 in Yuba County to 64.6 in Marin County.

Thirty counties with reliable age-adjusted death rates 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 two counties with unreliable rates met the objective. The statewide age-adjusted death rate for coronary heart disease did not meet the national objective.

The California average age-adjusted death rate from coronary heart disease for the 2008-2010 period was 114.2.

**TABLE 9  
DEATHS DUE TO CORONARY HEART DISEASE  
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE  
CALIFORNIA COUNTIES, 2011-2013**

RANK ORDER	COUNTY OF RESIDENCE	2012 POPULATION	2011-2013 DEATHS (AVERAGE)	CRUDE DEATHRATE	AGE-ADJUSTED DEATHRATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
1	ALPINE	1,127	0.7	59.2 *	24.0 *	0.1	179.6
2	MONO	14,258	4.3	30.4 *	54.1 *	15.8	133.9
3	MARIN	254,882	241.7	94.8	64.6	56.3	72.9
4	SAN FRANCISCO	820,349	680.0	82.9	66.5	61.5	71.6
5	SAN BENITO	56,527	35.3	62.5	69.8	48.7	96.9
6	SANTA CLARA	1,828,597	1,288.7	70.5	72.5	68.5	76.5
7	SAN MATEO	736,362	643.7	87.4	73.5	67.7	79.3
8	INYO	18,637	22.7	121.6	73.6	46.5	110.8
9	CONTRA COSTA	1,069,803	874.7	81.8	74.3	69.3	79.3
10	YOLO	204,314	136.0	66.6	75.2	62.4	88.0
11	ALAMEDA	1,540,790	1,199.0	77.8	77.7	73.3	82.2
12	SAN LUIS OBISPO	271,021	286.0	105.5	78.2	69.0	87.4
13	MONTEREY	422,868	316.7	74.9	78.7	69.9	87.5
14	SOLANO	415,913	329.3	79.2	79.0	70.4	87.7
15	SANTA CRUZ	267,569	220.0	82.2	81.6	70.5	92.6
16	LASSEN	33,650	25.0	74.3	83.6	54.1	123.5
17	EL DORADO	180,599	186.0	103.0	84.8	72.4	97.2
18	VENTURA	834,109	745.7	89.4	84.8	78.7	91.0
19	NAPA	138,577	161.7	116.7	86.3	72.7	99.9
20	SONOMA	489,283	552.7	113.0	88.7	81.1	96.3
21	SANTA BARBARA	427,358	464.7	108.7	92.4	83.9	101.0
22	SAN DIEGO	3,147,220	3,071.3	97.6	95.7	92.2	99.1
23	PLUMAS	19,523	30.0	153.7	95.8	64.6	136.8
24	PLACER	360,680	442.0	122.5	97.5	88.3	106.6
25	NEVADA	98,202	154.7	157.5	97.5	81.6	113.5
26	SISKIYOU	44,598	68.3	153.2	98.5	76.5	124.8
27	GLENN	28,208	31.3	111.1	98.6	67.2	139.7
28	ORANGE	3,071,933	3,111.0	101.3	98.8	95.3	102.3
29	TRINITY	13,470	22.0	163.3	100.1	62.8	151.6
30	AMADOR	36,899	64.0	173.4	100.3	77.2	128.1
31	MENDOCINO	88,566	119.3	134.7	101.0	82.3	119.6
32	BUTTE	221,118	307.7	139.1	103.3	91.5	115.1
<b>HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: HDS-2</b>					<b>103.4</b>		
33	TUOLUMNE	54,339	91.7	168.7	103.5	83.4	127.0
34	TEHAMA	63,623	82.3	129.4	103.6	82.4	128.5
	<b>CALIFORNIA</b>	<b>37,826,160</b>	<b>39,455.0</b>	<b>104.3</b>	<b>103.8</b>	<b>102.7</b>	<b>104.8</b>
35	DEL NORTE	28,359	34.3	121.1	104.4	72.5	145.7
36	HUMBOLDT	134,923	164.3	121.8	105.2	88.7	121.6
37	CALAVERAS	45,045	73.7	163.5	105.2	82.6	132.2
38	COLUSA	21,614	22.0	101.8	105.4	66.1	159.6
39	SACRAMENTO	1,439,874	1,544.3	107.3	107.5	102.1	113.0
40	SAN JOAQUIN	699,003	696.3	99.6	107.8	99.7	115.9
41	SIERRA	3,089	5.7	183.4 *	107.9 *	38.2	239.8
42	KINGS	150,843	116.3	77.1	110.3	89.9	130.7
43	IMPERIAL	178,659	177.0	99.1	112.0	95.4	128.6
44	FRESNO	946,823	954.7	100.8	112.9	105.7	120.2
45	MERCED	261,708	246.3	94.1	117.2	102.4	131.9
46	SUTTER	95,351	118.3	124.1	117.5	96.2	138.7
47	SHASTA	178,477	290.0	162.5	117.8	104.0	131.6
48	MARIPOSA	17,817	32.0	179.6	119.8	81.9	169.1
49	SAN BERNARDINO	2,065,016	1,912.0	92.6	120.9	115.4	126.4
50	MODOC	9,518	18.0	189.1 *	121.8 *	72.2	192.4
51	LOS ANGELES	9,911,665	11,824.7	119.3	122.3	120.1	124.5
52	RIVERSIDE	2,244,399	2,719.0	121.1	122.9	118.2	127.5
53	TULARE	451,627	484.7	107.3	133.5	121.5	145.5
54	KERN	855,522	878.3	102.7	134.2	125.1	143.2
55	LAKE	64,394	121.7	188.9	135.3	110.6	159.9
56	MADERA	151,790	196.3	129.3	140.7	120.9	160.5
57	STANISLAUS	522,651	722.7	138.3	148.0	137.1	158.9
58	YUBA	73,021	92.3	126.4	149.4	120.5	183.2

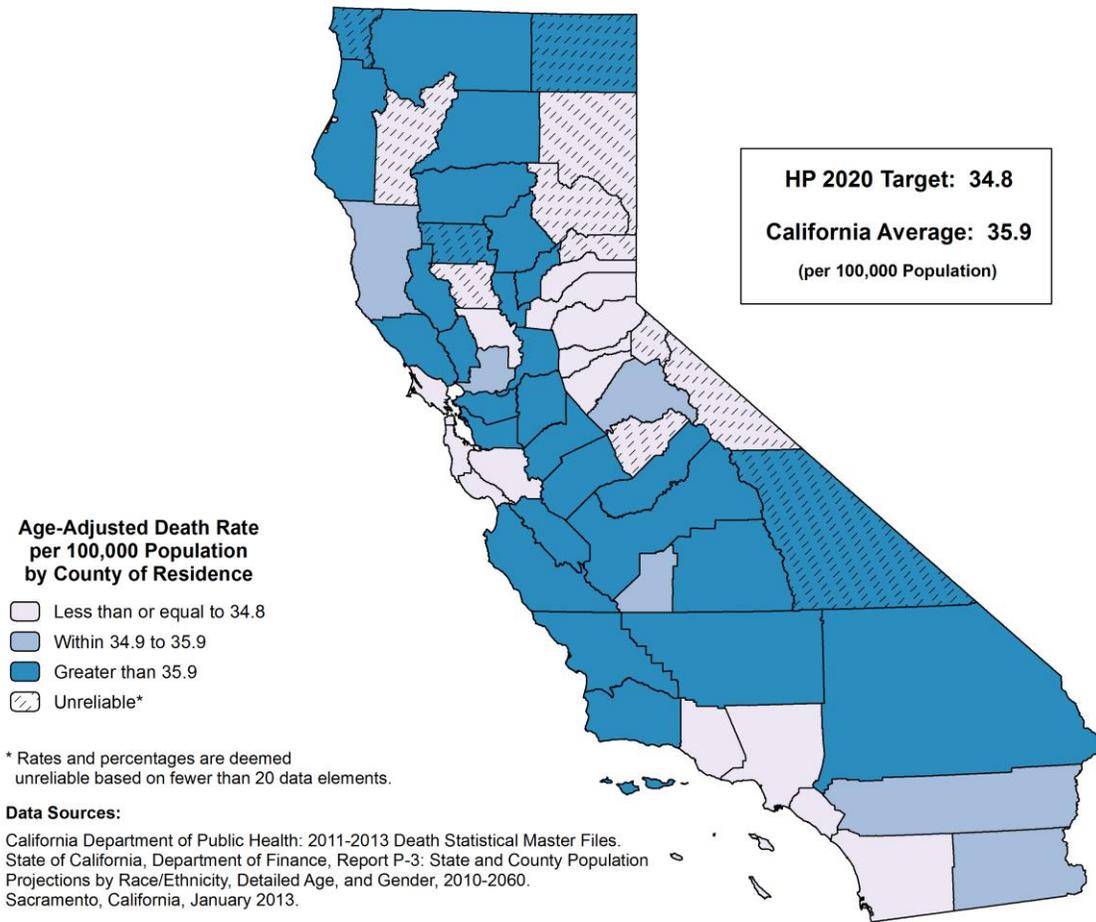
\* Rates are deemed unreliable based on fewer than 20 data elements.

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

Sources: California Department of Public Health, 2011-2013 Death Statistical Master Files.

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, January 2013.

## DEATHS DUE TO CEREBROVASCULAR DISEASE (STROKE), 2011-2013



The crude death rate from cerebrovascular disease (stroke) for California was 35.7 deaths per 100,000 population, a risk of dying from cerebrovascular disease equivalent to approximately one death for every 2,803.6 persons. This rate was based on a 2011 through 2013 three-year average number of deaths equaling 13,492.0 and a population count of 37,826,160 as of July 1, 2012. Among counties with reliable rates, the crude rate ranged from 80.3 in San Luis Obispo County to 24.5 in Santa Clara County and Kings County, a factor of 3.3 to 1.

The age-adjusted death rate from cerebrovascular disease for California during the 2011 through 2013 three-year period was 35.9 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 57.8 in San Luis Obispo County to 23.5 in El Dorado County.

Fifteen counties with reliable age-adjusted death rates 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 eight counties with unreliable rates met the objective. The statewide age-adjusted death rate for cerebrovascular disease did not meet the national objective.

The California average age-adjusted death rate from cerebrovascular disease for the 2008-2010 period was 38.5.

**TABLE 10  
DEATHS DUE TO CEREBROVASCULAR DISEASE (STROKE)  
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE  
CALIFORNIA COUNTIES, 2011-2013**

RANK ORDER	COUNTY OF RESIDENCE	2012 POPULATION	2011-2013 DEATHS (AVERAGE)	CRUDE DEATH RATE	AGE-ADJUSTED DEATH RATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
1	ALPINE	1,127	0.3	29.6 *	12.0 *	0.0	157.1
2	SIERRA	3,089	1.0	32.4 *	19.8 *	0.5	110.2
3	LASSEN	33,650	6.3	18.8 *	23.2 *	8.8	49.5
4	EL DORADO	180,599	50.3	27.9	23.5	17.5	31.0
5	SANTA CLARA	1,828,597	448.3	24.5	25.5	23.1	27.9
6	TRINITY	13,470	5.0	37.1 *	27.4 *	8.9	64.0
7	MARIN	254,882	104.0	40.8	28.4	22.8	34.0
8	SAN MATEO	736,362	251.0	34.1	28.5	24.9	32.1
9	MONO	14,258	2.0	14.0 *	28.7 *	3.5	103.8
10	PLUMAS	19,523	8.3	42.7 *	29.5 *	13.0	57.3
11	CALAVERAS	45,045	21.3	47.4	30.4	18.9	46.3
12	SANTA CRUZ	267,569	82.3	30.8	30.9	24.6	38.3
13	PLACER	360,680	140.0	38.8	31.0	25.8	36.1
14	NEVADA	98,202	48.7	49.6	31.4	23.2	41.5
15	MARIPOSA	17,817	8.0	44.9 *	31.6 *	13.6	62.2
16	AMADOR	36,899	20.0	54.2	31.6	19.3	48.9
17	SAN DIEGO	3,147,220	1,049.3	33.3	32.7	30.7	34.7
18	COLUSA	21,614	7.0	32.4 *	34.4 *	13.8	71.0
19	SAN FRANCISCO	820,349	344.7	42.0	34.5	30.8	38.2
20	LOS ANGELES	9,911,665	3,310.0	33.4	34.7	33.5	35.9
21	ORANGE	3,071,933	1,081.7	35.2	34.7	32.6	36.8
22	YOLO	204,314	64.3	31.5	34.8	26.8	44.4
23	VENTURA	834,109	300.7	36.0	34.8	30.8	38.8
<b>HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: HDS-3</b>						<b>34.8</b>	
24	MENDOCINO	88,566	40.0	45.2	35.0	25.0	47.7
25	IMPERIAL	178,659	55.3	31.0	35.1	26.4	45.6
26	RIVERSIDE	2,244,399	772.3	34.4	35.2	32.7	37.6
27	KINGS	150,843	37.0	24.5	35.3	24.8	48.6
28	TUOLUMNE	54,339	32.0	58.9	35.9	24.5	50.6
29	SOLANO	415,913	145.7	35.0	35.9	30.0	41.8
<b>CALIFORNIA</b>		<b>37,826,160</b>	<b>13,492.0</b>	<b>35.7</b>	<b>35.9</b>	<b>35.3</b>	<b>36.5</b>
30	SONOMA	489,283	224.7	45.9	36.2	31.4	41.1
31	CONTRA COSTA	1,069,803	431.0	40.3	37.2	33.6	40.8
32	ALAMEDA	1,540,790	572.0	37.1	37.5	34.4	40.6
33	INYO	18,637	11.7	62.6 *	37.5 *	19.2	66.1
34	KERN	855,522	243.3	28.4	37.7	32.9	42.5
35	SANTA BARBARA	427,358	187.0	43.8	37.9	32.3	43.4
36	SAN BERNARDINO	2,065,016	600.0	29.1	38.2	35.1	41.3
37	GLENN	28,208	12.0	42.5 *	38.4 *	19.8	67.0
38	NAPA	138,577	75.3	54.4	39.5	31.1	49.5
39	MONTEREY	422,868	160.7	38.0	39.8	33.5	46.0
40	SACRAMENTO	1,439,874	567.0	39.4	39.8	36.5	43.1
41	MODOC	9,518	5.3	56.0 *	39.9 *	13.5	90.7
42	DEL NORTE	28,359	12.3	43.5 *	40.0 *	20.9	69.4
43	SUTTER	95,351	41.0	43.0	40.4	29.0	54.8
44	SAN BENITO	56,527	20.3	36.0	41.3	25.4	63.6
45	MERCED	261,708	86.7	33.1	41.4	33.1	51.1
46	SISKIYOU	44,598	28.7	64.3	41.7	27.8	60.0
47	STANISLAUS	522,651	209.7	40.1	43.7	37.7	49.6
48	BUTTE	221,118	132.3	59.8	44.1	36.4	51.8
49	SAN JOAQUIN	699,003	289.0	41.3	45.5	40.2	50.8
50	FRESNO	946,823	382.3	40.4	45.7	41.0	50.3
51	MADERA	151,790	63.0	41.5	45.9	35.2	58.7
52	TULARE	451,627	167.0	37.0	46.1	39.0	53.1
53	SHASTA	178,477	113.7	63.7	46.6	37.9	55.3
54	LAKE	64,394	44.3	68.8	50.5	36.7	67.7
55	TEHAMA	63,623	40.0	62.9	51.1	36.5	69.6
56	YUBA	73,021	30.3	41.5	52.2	35.3	74.4
57	HUMBOLDT	134,923	86.7	64.2	56.3	45.1	69.4
58	SAN LUIS OBISPO	271,021	217.7	80.3	57.8	50.0	65.6

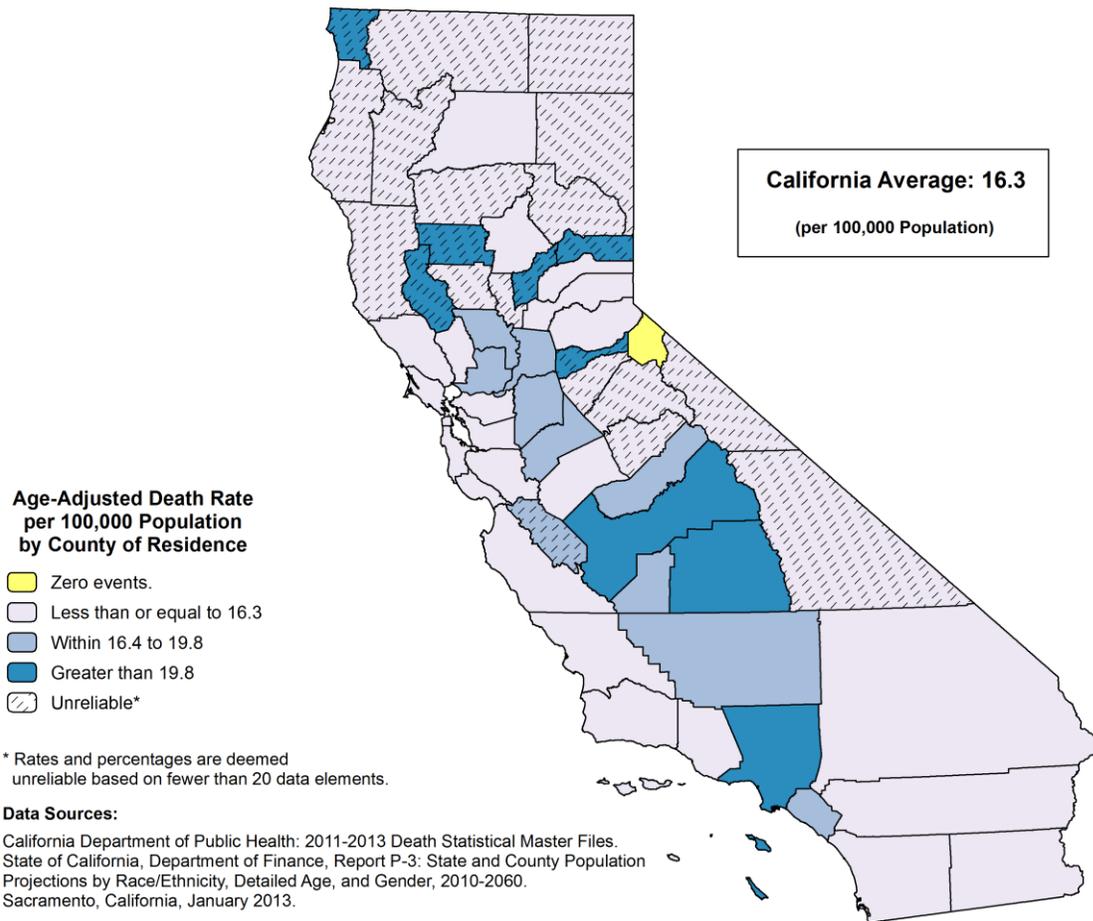
\* Rates are deemed unreliable based on fewer than 20 data elements.

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

Sources: California Department of Public Health, 2011-2013 Death Statistical Master Files.

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, January 2013.

## DEATHS DUE TO INFLUENZA/PNEUMONIA, 2011-2013



The crude death rate from influenza/pneumonia for California was 16.3 deaths per 100,000 population, a risk of dying from influenza/pneumonia equivalent to approximately one death for every 6,130.0 persons. This rate was based on a 2011 through 2013 three-year average number of deaths equaling 6,170.7 and a population count of 37,826,160 as of July 1, 2012. Among counties with reliable rates, the crude rate ranged from 24.8 in Nevada County to 10.1 in San Diego County, a factor of 2.5 to 1.

The age-adjusted death rate from influenza/pneumonia for California during the 2011 through 2013 three-year period was 16.3 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 22.7 in Tulare County to 8.6 in Sonoma County.

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

The California average age-adjusted death rate from influenza/pneumonia for the 2008-2010 period was 17.7.

**TABLE 11  
DEATHS DUE TO INFLUENZA/PNEUMONIA  
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE  
CALIFORNIA COUNTIES, 2011-2013**

RANK ORDER	COUNTY OF RESIDENCE	2012 POPULATION	2011-2013 DEATHS (AVERAGE)	CRUDE DEATHRATE	AGE-ADJUSTED DEATHRATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
<b>HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE:</b>						<b>NONE</b>	
1	ALPINE	1,127	0.0	-	-	-	-
2	MONO	14,258	0.3	2.3 *	3.8 *	0.0	49.8
3	SISKIYOU	44,598	5.3	12.0 *	7.2 *	2.5	16.4
4	INYO	18,637	2.3	12.5 *	7.5 *	1.1	24.9
5	HUMBOLDT	134,923	13.0	9.6 *	8.1 *	4.3	13.8
6	COLUSA	21,614	2.0	9.3 *	8.4 *	1.0	30.3
7	SONOMA	489,283	56.0	11.4	8.6	6.5	11.2
8	SAN DIEGO	3,147,220	316.7	10.1	9.7	8.6	10.8
9	VENTURA	834,109	90.3	10.8	10.3	8.3	12.7
10	TRINITY	13,470	2.3	17.3 *	10.3 *	1.6	34.3
11	PLUMAS	19,523	3.3	17.1 *	10.3 *	2.4	28.7
12	MARIN	254,882	41.3	16.2	10.8	7.8	14.6
13	SAN LUIS OBISPO	271,021	40.7	15.0	10.9	7.8	14.8
14	CONTRA COSTA	1,069,803	126.7	11.8	10.9	9.0	12.9
15	EL DORADO	180,599	27.3	15.1	12.0	7.9	17.4
16	SHASTA	178,477	29.3	16.4	12.1	8.1	17.4
17	PLACER	360,680	56.0	15.5	12.3	9.3	16.0
18	IMPERIAL	178,659	20.0	11.2	12.6	7.7	19.4
19	RIVERSIDE	2,244,399	274.3	12.2	12.6	11.1	14.1
20	MODOC	9,518	1.7	17.5 *	12.9 *	1.1	51.6
21	LASSEN	33,650	3.7	10.9 *	13.0 *	3.3	34.5
22	SANTA BARBARA	427,358	66.7	15.6	13.0	10.1	16.6
23	MONTEREY	422,868	53.0	12.5	13.1	9.8	17.1
24	TEHAMA	63,623	10.7	16.8 *	13.1 *	6.5	23.7
25	SANTA CLARA	1,828,597	234.7	12.8	13.2	11.5	14.9
26	MARIPOSA	17,817	3.7	20.6 *	13.5 *	3.4	35.9
27	NAPA	138,577	27.0	19.5	13.8	9.1	20.0
28	TUOLUMNE	54,339	12.0	22.1 *	13.9 *	7.2	24.2
29	ALAMEDA	1,540,790	213.0	13.8	13.9	12.0	15.8
30	SAN FRANCISCO	820,349	145.7	17.8	14.1	11.7	16.4
31	SAN BERNARDINO	2,065,016	225.0	10.9	14.1	12.2	15.9
32	SANTA CRUZ	267,569	39.0	14.6	14.1	10.0	19.3
33	MERCED	261,708	30.7	11.7	14.6	9.9	20.7
34	MENDOCINO	88,566	17.3	19.6 *	14.9 *	8.7	23.7
35	NEVADA	98,202	24.3	24.8	15.2	9.7	22.5
36	CALAVERAS	45,045	10.7	23.7 *	15.4 *	7.6	27.9
37	BUTTE	221,118	49.0	22.2	15.6	11.6	20.7
38	SUTTER	95,351	16.3	17.1 *	16.0 *	9.2	25.9
39	SAN MATEO	736,362	149.0	20.2	16.2	13.6	18.9
	<b>CALIFORNIA</b>	<b>37,826,160</b>	<b>6,170.7</b>	<b>16.3</b>	<b>16.3</b>	<b>15.9</b>	<b>16.7</b>
40	KERN	855,522	109.0	12.7	16.4	13.2	19.5
41	STANISLAUS	522,651	81.7	15.6	16.8	13.3	20.8
42	MADERA	151,790	23.7	15.6	17.2	11.0	25.6
43	SACRAMENTO	1,439,874	249.0	17.3	17.3	15.1	19.4
44	ORANGE	3,071,933	555.7	18.1	17.8	16.3	19.3
45	SAN JOAQUIN	699,003	115.0	16.5	18.0	14.7	21.4
46	SOLANO	415,913	76.3	18.4	18.4	14.5	23.0
47	YOLO	204,314	34.3	16.8	18.7	12.9	26.0
48	SAN BENITO	56,527	9.7	17.1 *	19.7 *	9.3	36.6
49	KINGS	150,843	21.0	13.9	19.8	12.2	30.2
50	FRESNO	946,823	179.7	19.0	21.1	18.0	24.3
51	LAKE	64,394	18.3	28.5 *	21.6 *	12.9	34.0
52	GLENN	28,208	6.7	23.6 *	22.0 *	8.6	46.0
53	LOS ANGELES	9,911,665	2,125.3	21.4	22.3	21.4	23.3
54	TULARE	451,627	83.3	18.5	22.7	18.1	28.2
55	DEL NORTE	28,359	7.0	24.7 *	23.1 *	9.3	47.7
56	SIERRA	3,089	1.0	32.4 *	24.6 *	0.6	136.9
57	AMADOR	36,899	16.7	45.2 *	26.9 *	15.6	43.2
58	YUBA	73,021	17.0	23.3 *	27.7 *	16.1	44.3

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

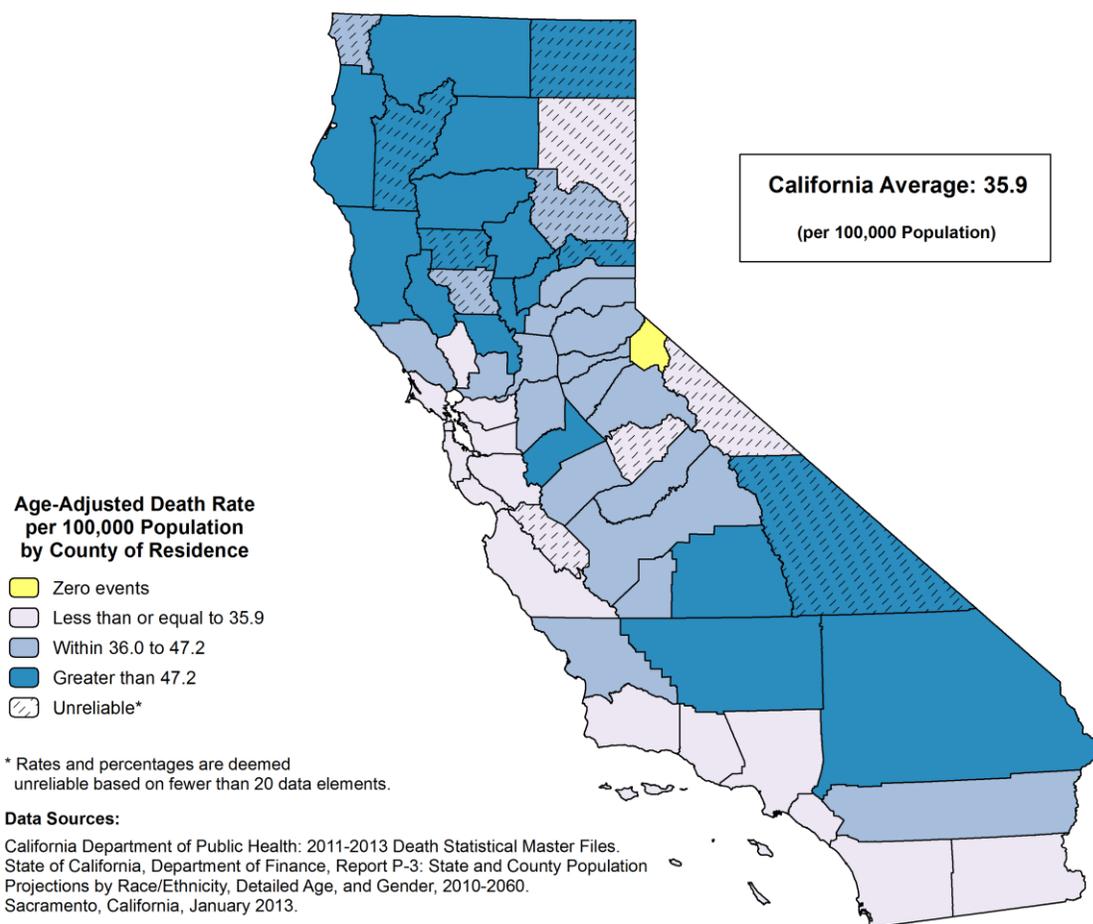
\* Rates are deemed unreliable based on fewer than 20 data elements.

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

Sources: California Department of Public Health, 2011-2013 Death Statistical Master Files.

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, January 2013.

## DEATHS DUE TO CHRONIC LOWER RESPIRATORY DISEASE, 2011-2013



The crude death rate from chronic lower respiratory disease deaths for California was 35.0 deaths per 100,000 population, a risk of dying from chronic lower respiratory disease equivalent to approximately one death for every 2,853.1 persons. This rate was based on a 2011 through 2013 three-year average number of deaths equaling 13,257.7 and a population count of 37,826,160 as of July 1, 2012. Among counties with reliable rates, the crude rate ranged from 103.5 in Lake County to 17.4 in Imperial County, a factor of 6.0 to 1.

The age-adjusted death rate from chronic lower respiratory disease deaths for California during the 2011 through 2013 three-year period was 35.9 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 75.8 in Yuba County to 19.8 in Imperial County.

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

The California average age-adjusted death rate from chronic lower respiratory disease for the 2008-2010 period was 37.6.

**TABLE 12  
DEATHS DUE TO CHRONIC LOWER RESPIRATORY DISEASE  
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE  
CALIFORNIA COUNTIES, 2011-2013**

RANK ORDER	COUNTY OF RESIDENCE	2012 POPULATION	2011-2013 DEATHS (AVERAGE)	CRUDE DEATHRATE	AGE-ADJUSTED DEATHRATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
<b>HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE:</b>						<b>NONE</b>	
1	ALPINE	1,127	0.0	-	-	-	-
2	MONO	14,258	1.3	9.4 *	13.2 *	0.7	60.9
3	IMPERIAL	178,659	31.0	17.4	19.8	13.5	28.1
4	SAN FRANCISCO	820,349	205.7	25.1	21.0	18.1	23.9
5	MARIN	254,882	81.0	31.8	22.7	18.0	28.2
6	SANTA CLARA	1,828,597	417.0	22.8	24.2	21.9	26.6
7	SAN MATEO	736,362	207.3	28.2	24.6	21.2	28.1
8	SANTA BARBARA	427,358	127.0	29.7	26.0	21.4	30.6
9	MONTEREY	422,868	109.3	25.9	28.3	22.9	33.6
10	ALAMEDA	1,540,790	434.0	28.2	29.1	26.4	31.9
11	SANTA CRUZ	267,569	76.3	28.5	29.3	23.1	36.6
12	SAN BENITO	56,527	14.7	25.9 *	30.5 *	17.0	50.7
13	LASSEN	33,650	8.7	25.8 *	30.8 *	13.8	59.1
14	LOS ANGELES	9,911,665	2,920.7	29.5	31.2	30.1	32.4
15	ORANGE	3,071,933	950.0	30.9	31.2	29.2	33.2
16	VENTURA	834,109	272.3	32.6	32.2	28.3	36.1
17	NAPA	138,577	60.3	43.5	33.4	25.5	43.0
18	CONTRA COSTA	1,069,803	388.0	36.3	33.9	30.5	37.3
19	SAN DIEGO	3,147,220	1,056.7	33.6	34.1	32.0	36.2
20	MARIPOSA	17,817	10.7	59.9 *	35.1 *	17.3	63.4
	<b>CALIFORNIA</b>	<b>37,826,160</b>	<b>13,257.7</b>	<b>35.0</b>	<b>35.9</b>	<b>35.3</b>	<b>36.5</b>
21	FRESNO	946,823	292.3	30.9	36.0	31.8	40.1
22	SAN LUIS OBISPO	271,021	125.7	46.4	36.5	30.0	43.0
23	PLACER	360,680	167.7	46.5	37.3	31.6	43.0
24	SONOMA	489,283	225.3	46.1	38.2	33.1	43.3
25	EL DORADO	180,599	85.3	47.3	39.0	31.2	48.2
26	SOLANO	415,913	167.7	40.3	41.3	34.9	47.6
27	SACRAMENTO	1,439,874	580.0	40.3	41.3	37.9	44.7
28	TUOLUMNE	54,339	38.3	70.5	42.1	29.8	57.7
29	AMADOR	36,899	27.0	73.2	43.0	28.3	62.5
30	PLUMAS	19,523	13.7	70.0 *	43.0 *	23.3	72.5
31	MADERA	151,790	59.7	39.3	43.2	33.0	55.7
32	KINGS	150,843	46.3	30.7	44.2	32.4	58.9
33	SAN JOAQUIN	699,003	276.7	39.6	44.4	39.1	49.7
34	CALAVERAS	45,045	30.7	68.1	44.8	30.4	63.7
35	NEVADA	98,202	70.3	71.6	44.8	34.9	56.6
36	COLUSA	21,614	9.3	43.2 *	46.0 *	21.4	86.3
37	MERCED	261,708	95.0	36.3	46.2	37.3	56.4
38	RIVERSIDE	2,244,399	1,011.3	45.1	46.4	43.5	49.2
39	DEL NORTE	28,359	14.7	51.7 *	47.0 *	26.1	78.0
40	TRINITY	13,470	10.0	74.2 *	47.4 *	22.8	87.2
41	TULARE	451,627	174.7	38.7	48.2	40.9	55.4
42	MENDOCINO	88,566	56.7	64.0	48.9	37.0	63.5
43	YOLO	204,314	88.3	43.2	49.6	39.8	61.0
44	STANISLAUS	522,651	237.0	45.3	49.6	43.2	56.0
45	SUTTER	95,351	51.0	53.5	50.8	37.9	66.8
46	INYO	18,637	15.7	84.1 *	52.3 *	29.7	85.4
47	HUMBOLDT	134,923	84.0	62.3	54.7	43.6	67.7
48	SAN BERNARDINO	2,065,016	864.7	41.9	55.0	51.3	58.7
49	GLENN	28,208	17.3	61.4 *	55.7 *	32.6	88.7
50	BUTTE	221,118	159.7	72.2	55.7	46.9	64.5
51	SIERRA	3,089	2.7	86.3 *	56.7 *	10.2	175.7
52	KERN	855,522	385.3	45.0	59.5	53.5	65.5
53	MODOC	9,518	8.7	91.1 *	60.1 *	27.0	115.5
54	SISKIYOU	44,598	43.0	96.4	62.0	44.9	83.5
55	TEHAMA	63,623	56.7	89.1	71.1	53.8	92.2
56	SHASTA	178,477	180.7	101.2	72.4	61.7	83.0
57	LAKE	64,394	66.7	103.5	73.7	57.1	93.6
58	YUBA	73,021	46.0	63.0	75.8	55.5	101.1

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

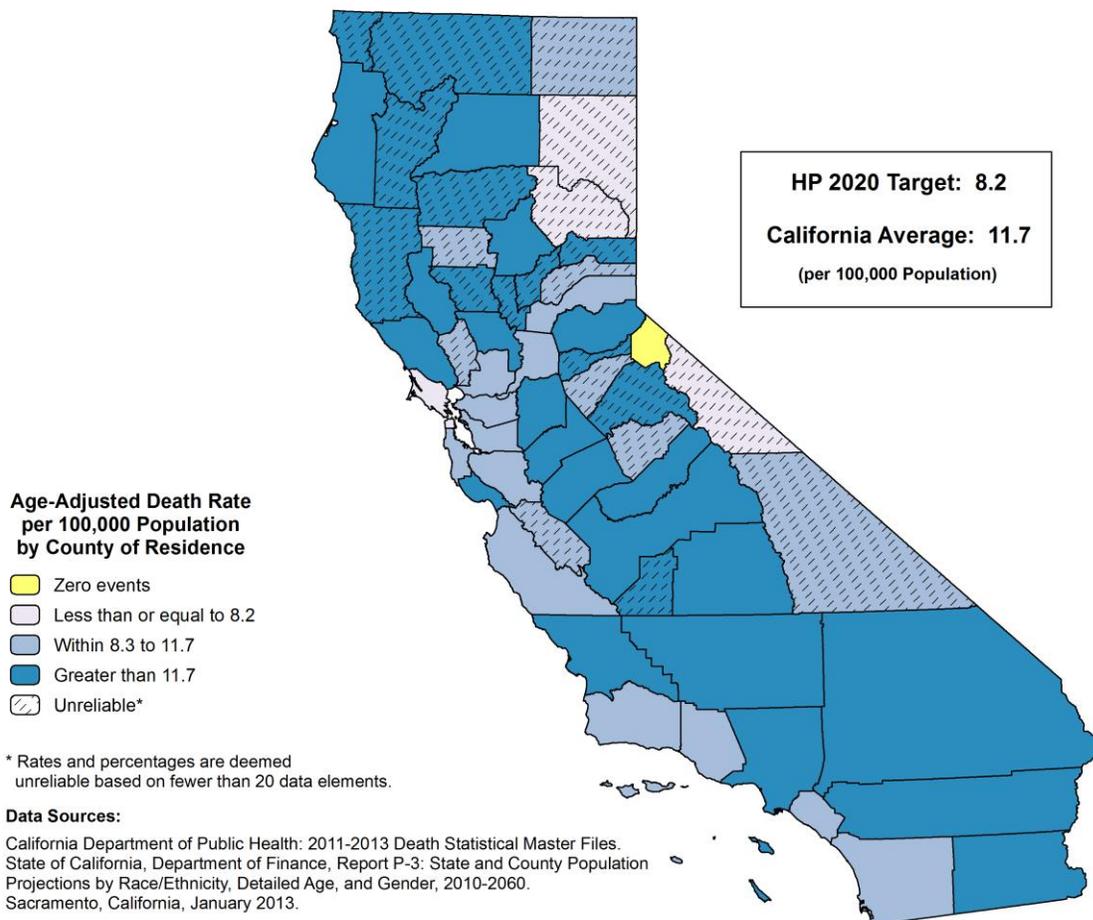
\* Rates are deemed unreliable based on fewer than 20 data elements.

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

Sources: California Department of Public Health, 2011-2013 Death Statistical Master Files.

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, January 2013.

## DEATHS DUE TO CHRONIC LIVER DISEASE AND CIRRHOSIS, 2011-2013



The crude death rate from chronic liver disease and cirrhosis for California was 12.3 deaths per 100,000 population, a risk of dying from chronic liver disease and cirrhosis equivalent to approximately one death for every 8,129.9 persons. This rate was based on a 2011 through 2013 three-year average number of deaths equaling 4,652.7 and a population count of 37,826,160 as of July 1, 2012. Among counties with reliable rates, the crude rate ranged from 32.1 in Lake County to 8.5 in Marin County, a factor of 3.8 to 1.

The age-adjusted death rate from chronic liver disease and cirrhosis for California during the 2011 through 2013 three-year period was 11.7 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 21.3 in Lake County to 6.0 in Marin County.

Two counties with a reliable age-adjusted death rate 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. An additional three counties with unreliable rates and one county with no deaths due to chronic liver disease and cirrhosis met the objective. The statewide age-adjusted death rate for chronic liver disease and cirrhosis did not meet the national objective.

The California average age-adjusted death rate from chronic liver disease and cirrhosis for the 2008-2010 period was 11.2.

**TABLE 13  
DEATHS DUE TO CHRONIC LIVER DISEASE AND CIRRHOSIS  
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE  
CALIFORNIA COUNTIES, 2011-2013**

RANK ORDER	COUNTY OF RESIDENCE	2012 POPULATION	2011-2013 DEATHS (AVERAGE)	CRUDE DEATHRATE	AGE-ADJUSTED DEATHRATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
1	ALPINE	1,127	0.0	-	-	-	-
2	MONO	14,258	1.0	7.0 *	4.9 *	0.1	27.5
3	MARIN	254,882	21.7	8.5	6.0	3.8	9.2
4	SAN FRANCISCO	820,349	74.0	9.0	7.9	6.2	9.9
5	PLUMAS	19,523	2.3	12.0 *	8.2 *	1.2	27.1
6	LASSEN	33,650	2.7	7.9 *	8.2 *	1.5	25.6
<b>HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: SA-11</b>					<b>8.2</b>		
7	MODOC	9,518	1.3	14.0 *	8.7 *	0.5	39.9
8	GLENN	28,208	3.0	10.6 *	8.9 *	1.8	26.1
9	CONTRA COSTA	1,069,803	108.7	10.2	9.0	7.2	10.7
10	SANTA CLARA	1,828,597	174.7	9.6	9.0	7.6	10.3
11	NEVADA	98,202	13.3	13.6 *	9.0 *	4.9	15.3
12	SAN MATEO	736,362	79.3	10.8	9.3	7.4	11.6
13	MARIPOSA	17,817	3.0	16.8 *	9.4 *	1.9	27.4
14	ORANGE	3,071,933	315.7	10.3	9.5	8.5	10.6
15	PLACER	360,680	43.0	11.9	9.6	7.0	13.0
16	ALAMEDA	1,540,790	163.3	10.6	9.7	8.2	11.2
17	SOLANO	415,913	45.0	10.8	9.8	7.2	13.1
18	VENTURA	834,109	92.0	11.0	10.2	8.2	12.5
19	SAN DIEGO	3,147,220	335.3	10.7	10.2	9.1	11.3
20	MONTEREY	422,868	44.0	10.4	10.4	7.6	14.0
21	NAPA	138,577	18.0	13.0 *	10.9 *	6.4	17.2
22	SAN BENITO	56,527	7.0	12.4 *	11.3 *	4.5	23.3
23	SACRAMENTO	1,439,874	170.7	11.9	11.3	9.6	13.1
24	SANTA BARBARA	427,358	49.7	11.6	11.3	8.4	15.0
25	CALAVERAS	45,045	8.7	19.2 *	11.5 *	5.2	22.2
26	INYO	18,637	3.0	16.1 *	11.5 *	2.4	33.8
	<b>CALIFORNIA</b>	<b>37,826,160</b>	<b>4,652.7</b>	<b>12.3</b>	<b>11.7</b>	<b>11.4</b>	<b>12.0</b>
27	SONOMA	489,283	71.0	14.5	11.9	9.3	15.0
28	EL DORADO	180,599	31.7	17.5	12.2	8.3	17.2
29	RIVERSIDE	2,244,399	286.3	12.8	12.6	11.1	14.0
30	KERN	855,522	99.7	11.6	12.6	10.3	15.3
31	LOS ANGELES	9,911,665	1,281.7	12.9	12.7	12.0	13.4
32	DEL NORTE	28,359	4.7	16.5 *	12.8 *	4.0	30.8
33	COLUSA	21,614	3.0	13.9 *	12.9 *	2.7	37.8
34	SANTA CRUZ	267,569	39.0	14.6	13.0	9.3	17.8
35	SAN LUIS OBISPO	271,021	43.7	16.1	13.1	9.5	17.6
36	AMADOR	36,899	7.3	19.9 *	13.4 *	5.5	27.1
37	SAN BERNARDINO	2,065,016	267.3	12.9	13.9	12.2	15.6
38	STANISLAUS	522,651	71.7	13.7	13.9	10.9	17.5
39	KINGS	150,843	18.7	12.4 *	14.1 *	8.5	22.1
40	YUBA	73,021	9.7	13.2 *	14.1 *	6.7	26.3
41	MENDOCINO	88,566	15.0	16.9 *	14.4 *	8.0	23.7
42	YOLO	204,314	28.7	14.0	14.5	9.7	20.8
43	IMPERIAL	178,659	24.3	13.6	14.6	9.4	21.6
44	SUTTER	95,351	14.7	15.4 *	14.6 *	8.1	24.2
45	TUOLUMNE	54,339	11.3	20.9 *	14.6 *	7.4	25.9
46	BUTTE	221,118	38.7	17.5	14.9	10.5	20.3
47	FRESNO	946,823	130.7	13.8	14.9	12.3	17.5
48	MADERA	151,790	22.3	14.7	15.2	9.6	22.9
49	MERCED	261,708	38.0	14.5	16.3	11.6	22.4
50	SAN JOAQUIN	699,003	118.7	17.0	17.1	14.0	20.2
51	TULARE	451,627	69.7	15.4	17.4	13.6	22.0
52	SISKIYOU	44,598	10.3	23.2 *	17.7 *	8.6	32.2
53	SHASTA	178,477	42.0	23.5	18.0	12.9	24.3
54	SIERRA	3,089	1.0	32.4 *	19.2 *	0.5	106.9
55	HUMBOLDT	134,923	31.7	23.5	19.5	13.3	27.5
56	TEHAMA	63,623	15.7	24.6 *	21.0 *	11.9	34.3
57	LAKE	64,394	20.7	32.1	21.3	13.1	32.6
58	TRINITY	13,470	3.7	27.2 *	22.9 *	5.8	61.0

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

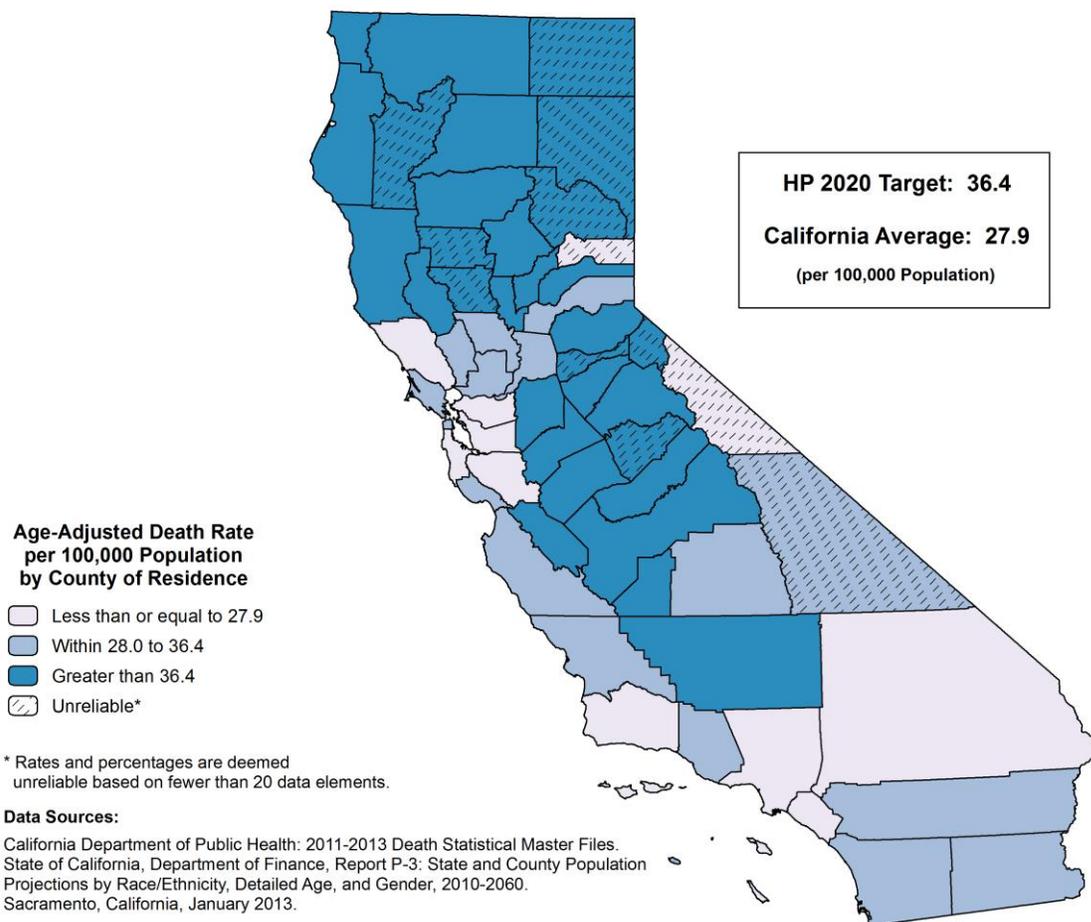
\* Rates are deemed unreliable based on fewer than 20 data elements.

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

Sources: California Department of Public Health, 2011-2013 Death Statistical Master Files.

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, January 2013.

## DEATHS DUE TO ACCIDENTS (UNINTENTIONAL INJURIES), 2011-2013



The crude death rate from accidents (unintentional injuries) for California was 28.4 deaths per 100,000 population, a risk of dying from accidents equivalent to approximately one death for every 3,516.2 persons. This rate was based on a 2011 through 2013 three-year average number of deaths equaling 10,757.7 and a population count of 37,826,160 as of July 1, 2012. Among counties with reliable rates, the crude rate ranged from 96.3 in Lake County to 20.5 in Los Angeles County, a factor of 4.7 to 1.

The age-adjusted death rate from accidents for California during the 2011 through 2013 three-year period was 27.9 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 87.6 in Lake County to 20.3 in Los Angeles 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 average age-adjusted death rate from accidents for the 2008-2010 period was 28.1.

**TABLE 14  
DEATHS DUE TO ACCIDENTS (UNINTENTIONAL INJURIES)  
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE  
CALIFORNIA COUNTIES, 2011-2013**

RANK ORDER	COUNTY OF RESIDENCE	2012 POPULATION	2011-2013 DEATHS (AVERAGE)	CRUDE DEATH RATE	AGE-ADJUSTED DEATH RATE	95% CONFIDENCE LIMITS		
						LOWER	UPPER	
1	LOS ANGELES	9,911,665	2,036.0	20.5	20.3	19.4	21.1	
2	SIERRA	3,089	1.3	43.2 *	21.5 *	1.2	99.0	
3	SAN MATEO	736,362	176.7	24.0	21.8	18.5	25.0	
4	ORANGE	3,071,933	695.0	22.6	22.0	20.4	23.7	
5	SANTA CLARA	1,828,597	424.0	23.2	23.0	20.8	25.2	
6	ALAMEDA	1,540,790	374.3	24.3	23.4	21.0	25.8	
7	SONOMA	489,283	134.0	27.4	24.7	20.4	29.0	
8	SAN BERNARDINO	2,065,016	488.7	23.7	25.0	22.7	27.3	
9	CONTRA COSTA	1,069,803	288.0	26.9	25.4	22.4	28.4	
10	SANTA BARBARA	427,358	115.0	26.9	25.6	20.8	30.5	
11	MONO	14,258	3.7	25.7 *	26.2 *	6.6	69.6	
	<b>CALIFORNIA</b>	<b>37,826,160</b>	<b>10,757.7</b>	<b>28.4</b>	<b>27.9</b>	<b>27.3</b>	<b>28.4</b>	
12	PLACER	360,680	111.7	31.0	28.7	23.3	34.2	
13	MARIN	254,882	90.3	35.4	29.1	23.4	35.7	
14	SAN FRANCISCO	820,349	277.7	33.8	29.4	25.8	32.9	
15	SOLANO	415,913	125.3	30.1	29.5	24.2	34.7	
16	NAPA	138,577	47.3	34.2	30.7	22.6	40.7	
17	SAN DIEGO	3,147,220	1,007.0	32.0	30.9	29.0	32.8	
18	VENTURA	834,109	264.0	31.7	31.0	27.2	34.8	
19	RIVERSIDE	2,244,399	703.7	31.4	31.6	29.3	34.0	
20	SACRAMENTO	1,439,874	464.7	32.3	31.8	28.9	34.7	
21	MONTEREY	422,868	132.7	31.4	32.0	26.5	37.5	
22	TULARE	451,627	136.0	30.1	32.5	27.0	38.1	
23	INYO	18,637	7.0	37.6 *	32.7 *	13.1	67.4	
24	SANTA CRUZ	267,569	91.7	34.3	33.4	26.9	41.0	
25	YOLO	204,314	65.7	32.1	34.0	26.3	43.3	
26	SAN LUIS OBISPO	271,021	105.0	38.7	34.6	27.6	41.5	
27	IMPERIAL	178,659	62.0	34.7	36.1	27.7	46.3	
	<b>HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: IVP-11</b>					<b>36.4</b>		
28	FRESNO	946,823	328.0	34.6	36.7	32.6	40.7	
29	SAN BENITO	56,527	20.7	36.6	37.4	23.1	57.4	
30	STANISLAUS	522,651	198.3	37.9	38.3	32.9	43.7	
31	KINGS	150,843	52.3	34.7	38.4	28.7	50.3	
32	SAN JOAQUIN	699,003	267.0	38.2	39.1	34.4	43.9	
33	AMADOR	36,899	19.0	51.5 *	39.9 *	24.0	62.3	
34	SUTTER	95,351	38.3	40.2	40.4	28.6	55.4	
35	MADERA	151,790	61.0	40.2	40.7	31.1	52.2	
36	EL DORADO	180,599	81.0	44.9	40.7	32.4	50.6	
37	CALAVERAS	45,045	21.0	46.6	41.1	25.5	62.9	
38	KERN	855,522	346.3	40.5	42.9	38.3	47.5	
39	MERCED	261,708	112.3	42.9	46.5	37.8	55.2	
40	LASSEN	33,650	17.3	51.5 *	47.3 *	27.7	75.3	
41	NEVADA	98,202	54.3	55.3	48.6	36.5	63.4	
42	COLUSA	21,614	11.0	50.9 *	49.0 *	24.5	87.7	
43	ALPINE	1,127	0.3	29.6 *	49.2 *	0.0	643.0	
44	MARIPOSA	17,817	11.3	63.6 *	49.5 *	25.0	87.9	
45	MENDOCINO	88,566	46.0	51.9	49.7	36.4	66.3	
46	TUOLUMNE	54,339	31.3	57.7	50.7	34.5	71.8	
47	PLUMAS	19,523	11.3	58.1 *	51.3 *	25.9	91.0	
48	GLENN	28,208	15.0	53.2 *	53.2 *	29.8	87.7	
49	YUBA	73,021	42.3	58.0	59.6	43.0	80.5	
50	BUTTE	221,118	143.0	64.7	60.4	50.0	70.8	
51	SHASTA	178,477	121.7	68.2	63.6	51.7	75.4	
52	TEHAMA	63,623	42.3	66.5	65.0	46.9	87.7	
53	SISKIYOU	44,598	32.7	73.2	67.5	46.4	95.0	
54	DEL NORTE	28,359	21.7	76.4	68.2	42.6	103.6	
55	HUMBOLDT	134,923	101.3	75.1	70.9	56.6	85.2	
56	TRINITY	13,470	10.7	79.2 *	76.7 *	37.8	138.5	
57	MODOC	9,518	8.3	87.6 *	87.6 *	34.6	152.5	
58	LAKE	64,394	62.0	96.3	87.6	67.1	112.3	

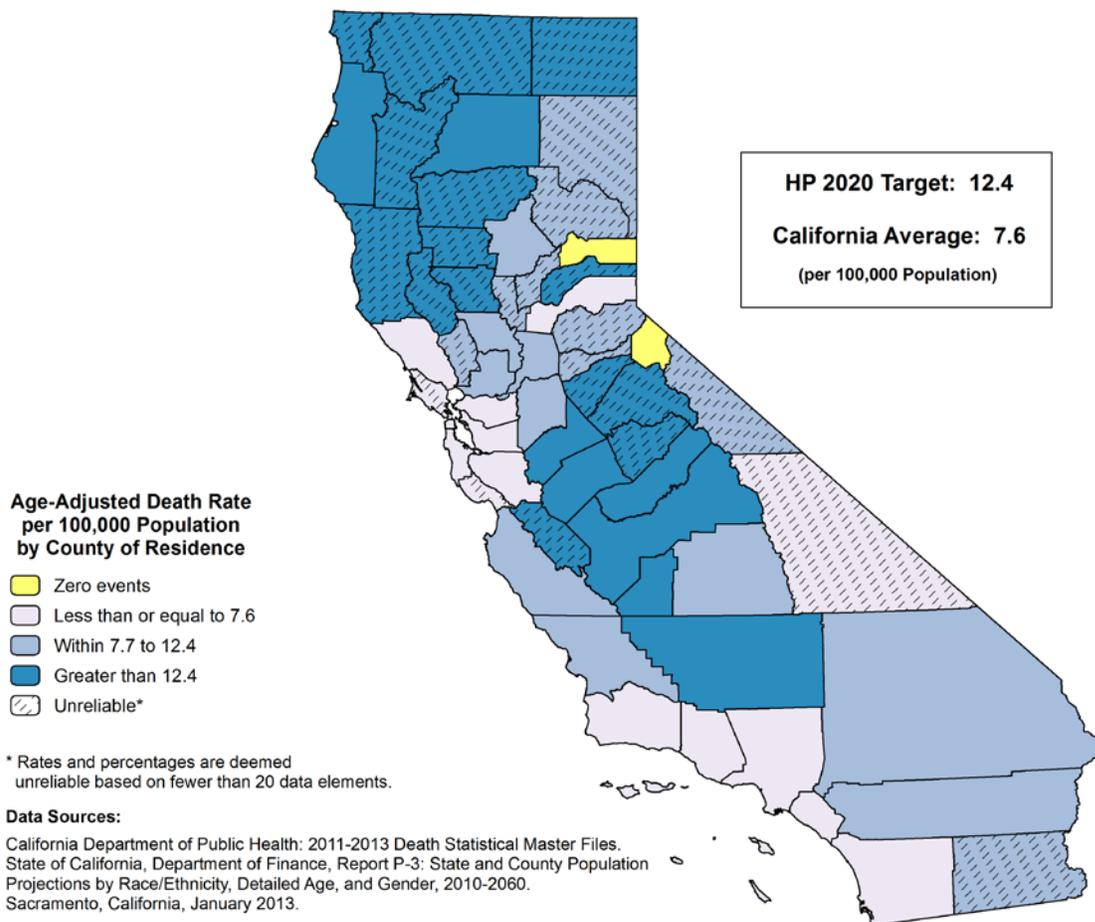
\* Rates are deemed unreliable based on fewer than 20 data elements.

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

Sources: California Department of Public Health, 2011-2013 Death Statistical Master Files.

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, January 2013.

## DEATHS DUE TO MOTOR VEHICLE TRAFFIC CRASHES, 2011-2013



The crude death rate from motor vehicle traffic crashes for California was 7.8 deaths per 100,000 population, a risk of dying from motor vehicle traffic crashes equivalent to approximately one death for every 12,828.1 persons. This rate was based on a 2011 through 2013 three-year average number of deaths equaling 2,948.7 and a population count of 37,826,160 as of July 1, 2012. Among counties with reliable rates, the crude rate ranged from 20.5 in Humboldt County to 2.9 in San Francisco County, a factor of 7.1 to 1.

The age-adjusted death rate from motor vehicle traffic crashes for California during the 2011 through 2013 three-year period was 7.6 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 20.0 in Humboldt County to 2.7 in San Francisco County.

Twenty-two 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 twelve counties with unreliable rates and two counties with no deaths due to motor vehicle traffic crashes met the objective.

The California average age-adjusted death rate from motor vehicle traffic crashes for the 2008-2010 period was 8.1.

**TABLE 15  
DEATHS DUE TO MOTOR VEHICLE TRAFFIC CRASHES  
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE  
CALIFORNIA COUNTIES, 2011-2013**

RANK ORDER	COUNTY OF RESIDENCE	2012 POPULATION	2011-2013 DEATHS (AVERAGE)	CRUDE DEATHRATE	AGE-ADJUSTED DEATHRATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
1	SIERRA	3,089	0.0	-	-	-	-
2	ALPINE	1,127	0.0	-	-	-	-
3	SAN FRANCISCO	820,349	23.7	2.9	2.7	1.7	4.1
4	MARIN	254,882	9.7	3.8*	3.5*	1.6	6.5
5	SONOMA	489,283	25.3	5.2	4.7	3.1	7.0
6	ALAMEDA	1,540,790	76.3	5.0	4.8	3.8	6.1
7	SANTA CLARA	1,828,597	94.7	5.2	5.2	4.2	6.3
8	INYO	18,637	1.3	7.2*	5.2*	0.3	23.9
9	CONTRA COSTA	1,069,803	57.0	5.3	5.3	4.0	6.8
10	ORANGE	3,071,933	170.0	5.5	5.4	4.6	6.2
11	SAN MATEO	736,362	41.7	5.7	5.6	4.0	7.5
12	SANTA CRUZ	267,569	16.7	6.2*	6.2*	3.6	10.0
13	SAN DIEGO	3,147,220	203.0	6.5	6.2	5.3	7.1
14	LOS ANGELES	9,911,665	659.3	6.7	6.5	6.0	7.0
15	SANTA BARBARA	427,358	31.0	7.3	6.8	4.6	9.6
16	PLACER	360,680	26.0	7.2	7.2	4.7	10.5
17	VENTURA	834,109	64.3	7.7	7.5	5.8	9.6
	<b>CALIFORNIA</b>	<b>37,826,160</b>	<b>2,948.7</b>	<b>7.8</b>	<b>7.6</b>	<b>7.4</b>	<b>7.9</b>
18	SAN LUIS OBISPO	271,021	23.0	8.5	7.9	5.0	11.9
19	MONTEREY	422,868	33.7	8.0	8.1	5.6	11.3
20	PLUMAS	19,523	1.3	6.8*	8.2*	0.5	37.7
21	SACRAMENTO	1,439,874	123.3	8.6	8.5	7.0	10.0
22	SOLANO	415,913	37.0	8.9	8.5	6.0	11.8
23	NAPA	138,577	12.7	9.1*	9.3*	4.9	16.0
24	RIVERSIDE	2,244,399	214.0	9.5	9.6	8.3	10.9
25	YOLO	204,314	21.0	10.3	10.2	6.3	15.5
26	SAN JOAQUIN	699,003	71.0	10.2	10.3	8.0	12.9
27	AMADOR	36,899	4.7	12.6*	10.3*	3.2	24.7
28	SAN BERNARDINO	2,065,016	213.0	10.3	10.4	9.0	11.8
29	IMPERIAL	178,659	18.3	10.3*	10.5*	6.3	16.6
30	BUTTE	221,118	24.0	10.9	10.6	6.8	15.7
31	EL DORADO	180,599	19.7	10.9*	10.8*	6.6	16.8
32	MONO	14,258	1.3	9.4*	11.1*	0.6	51.2
33	SUTTER	95,351	11.0	11.5*	11.9*	5.9	21.2
34	LASSEN	33,650	4.7	13.9*	12.0*	3.7	28.7
35	TULARE	451,627	53.7	11.9	12.0	9.0	15.7
36	YUBA	73,021	8.7	11.9*	12.1*	5.4	23.3
	<b>HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: IVP-13.1</b>					<b>12.4</b>	
37	GLENN	28,208	3.3	11.8*	12.8*	2.9	35.5
38	FRESNO	946,823	120.7	12.7	12.8	10.5	15.2
39	KERN	855,522	111.3	13.0	13.0	10.6	15.5
40	STANISLAUS	522,651	67.0	12.8	13.1	10.2	16.6
41	KINGS	150,843	20.0	13.3	13.1	8.0	20.3
42	SHASTA	178,477	25.0	14.0	14.1	9.1	20.8
43	MADERA	151,790	22.7	14.9	14.9	9.4	22.4
44	SAN BENITO	56,527	8.0	14.2*	15.0*	6.5	29.5
45	MENDOCINO	88,566	13.7	15.4*	15.3*	8.3	25.8
46	NEVADA	98,202	14.7	14.9*	15.4*	8.5	25.5
47	TUOLUMNE	54,339	9.0	16.6*	15.7*	7.2	29.8
48	MARIPOSA	17,817	2.7	15.0*	16.0*	2.9	49.7
49	MERCED	261,708	41.7	15.9	16.4	11.8	22.1
50	TEHAMA	63,623	11.0	17.3*	17.3*	8.6	30.9
51	HUMBOLDT	134,923	27.7	20.5	20.0	13.3	29.0
52	CALAVERAS	45,045	9.0	20.0*	20.1*	9.2	38.2
53	SISKIYOU	44,598	10.0	22.4*	21.3*	10.2	39.1
54	TRINITY	13,470	3.0	22.3*	22.2*	4.6	65.0
55	COLUSA	21,614	4.7	21.6*	22.3*	6.9	53.5
56	LAKE	64,394	16.3	25.4*	25.9*	14.9	41.9
57	DEL NORTE	28,359	8.0	28.2*	26.2*	11.3	51.7
58	MODOC	9,518	3.3	35.0*	31.6*	7.3	87.7

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

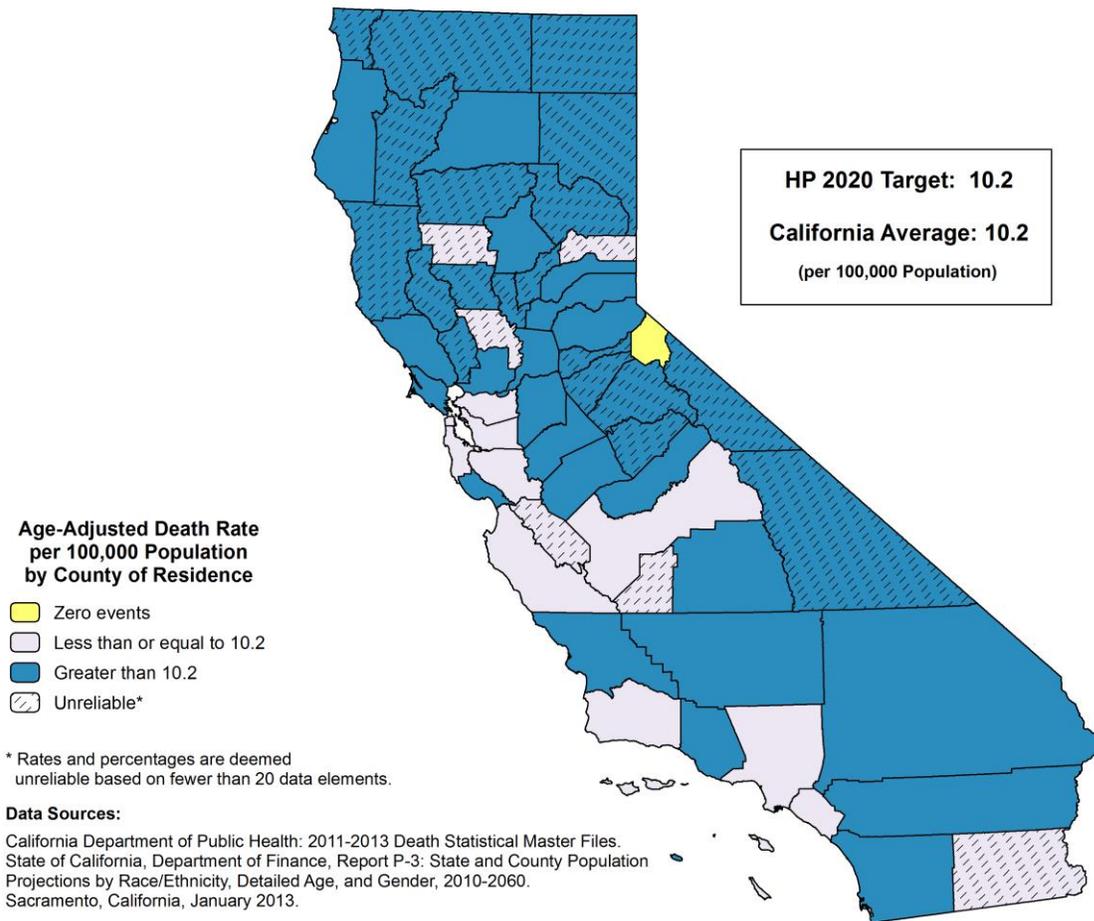
\* Rates are deemed unreliable based on fewer than 20 data elements.

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

Sources: California Department of Public Health, 2011-2013 Death Statistical Master Files.

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, January 2013.

## DEATHS DUE TO SUICIDE, 2011-2013



The crude death rate from suicide for California was 10.4 deaths per 100,000 population, a risk of dying from suicide equivalent to approximately one death for every 9,588.4 persons. This rate was based on a 2011 through 2013 three-year average number of deaths equaling 3,945.0 and a population count of 37,826,160 as of July 1, 2012. Among counties with reliable rates, the crude rate ranged from 25.0 in Humboldt County to 7.8 in Los Angeles County, a factor of 3.2 to 1.

The age-adjusted death rate from suicide for California during the 2011 through 2013 three-year period was 10.2 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 23.7 in Humboldt County to 7.6 in Los Angeles County.

Ten counties with reliable age-adjusted 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 average age-adjusted death rate from suicide for the 2008-2010 period was 10.1.

**TABLE 16  
DEATHS DUE TO SUICIDE  
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE  
CALIFORNIA COUNTIES, 2011-2013**

RANK ORDER	COUNTY OF RESIDENCE	2012 POPULATION	2011-2013 DEATHS (AVERAGE)	CRUDE DEATHRATE	AGE-ADJUSTED DEATHRATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
1	ALPINE	1,127	0.0	-	-	-	-
2	GLENN	28,208	1.7	5.9*	5.9*	0.5	23.5
3	SAN BENITO	56,527	4.0	7.1*	7.3*	2.0	18.7
4	LOS ANGELES	9,911,665	772.0	7.8	7.6	7.1	8.2
5	IMPERIAL	178,659	13.3	7.5*	7.7*	4.1	13.1
6	SAN MATEO	736,362	62.7	8.5	7.7	5.9	9.9
7	YOLO	204,314	15.7	7.7*	7.9*	4.5	12.9
8	MONTEREY	422,868	33.7	8.0	8.1	5.6	11.3
9	SANTA CLARA	1,828,597	154.3	8.4	8.2	6.9	9.5
10	SIERRA	3,089	0.3	10.8*	8.5*	0.0	111.7
11	ALAMEDA	1,540,790	138.3	9.0	8.6	7.2	10.1
12	KINGS	150,843	12.7	8.4*	8.9*	4.7	15.3
13	SAN FRANCISCO	820,349	82.7	10.1	9.2	7.3	11.4
14	ORANGE	3,071,933	306.0	10.0	9.6	8.6	10.7
15	FRESNO	946,823	87.7	9.3	9.8	7.8	12.1
16	CONTRA COSTA	1,069,803	112.0	10.5	10.1	8.2	12.1
17	SANTA BARBARA	427,358	45.0	10.5	10.2	7.5	13.7
	<b>CALIFORNIA</b>	<b>37,826,160</b>	<b>3,945.0</b>	<b>10.4</b>	<b>10.2</b>	<b>9.9</b>	<b>10.5</b>
	<b>HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: MHMD-1</b>					<b>10.2</b>	
18	SAN BERNARDINO	2,065,016	206.3	10.0	10.4	8.9	11.8
19	TULARE	451,627	44.3	9.8	10.7	7.8	14.4
20	RIVERSIDE	2,244,399	241.7	10.8	10.9	9.5	12.2
21	STANISLAUS	522,651	55.7	10.7	11.0	8.3	14.3
22	MERCED	261,708	26.7	10.2	11.1	7.3	16.1
23	SONOMA	489,283	61.7	12.6	11.2	8.6	14.3
24	SUTTER	95,351	10.7	11.2*	11.3*	5.6	20.4
25	SOLANO	415,913	49.0	11.8	11.4	8.4	15.0
26	SAN JOAQUIN	699,003	76.3	10.9	11.4	9.0	14.3
27	VENTURA	834,109	100.0	12.0	11.6	9.3	13.9
28	PLACER	360,680	45.0	12.5	11.7	8.5	15.6
29	MARIN	254,882	37.7	14.8	12.5	8.8	17.2
30	SAN DIEGO	3,147,220	407.0	12.9	12.5	11.3	13.8
31	KERN	855,522	102.0	11.9	12.6	10.1	15.1
32	NAPA	138,577	18.7	13.5*	12.8*	7.7	20.1
33	SACRAMENTO	1,439,874	191.0	13.3	13.0	11.1	14.9
34	SANTA CRUZ	267,569	37.7	14.1	13.7	9.7	18.9
35	YUBA	73,021	10.7	14.6*	14.4*	7.1	25.9
36	TUOLUMNE	54,339	9.7	17.8*	15.3*	7.2	28.4
37	MONO	14,258	2.0	14.0*	15.7*	1.9	56.6
38	SAN LUIS OBISPO	271,021	48.3	17.8	15.9	11.7	21.1
39	EL DORADO	180,599	31.7	17.5	16.3	11.1	23.0
40	BUTTE	221,118	38.3	17.3	16.8	11.9	23.1
41	MADERA	151,790	24.7	16.3	17.1	11.0	25.3
42	INYO	18,637	4.7	25.0*	18.9*	5.8	45.4
43	LASSEN	33,650	7.3	21.8*	20.2*	8.3	40.9
44	DEL NORTE	28,359	6.3	22.3*	20.6*	7.8	44.0
45	NEVADA	98,202	23.3	23.8	20.7	13.2	30.9
46	MENDOCINO	88,566	19.3	21.8*	20.9*	12.7	32.5
47	SHASTA	178,477	42.0	23.5	21.4	15.4	28.9
48	TRINITY	13,470	3.0	22.3*	22.1*	4.6	64.5
49	TEHAMA	63,623	15.3	24.1*	22.6*	12.8	37.1
50	COLUSA	21,614	4.7	21.6*	23.3*	7.2	55.8
51	AMADOR	36,899	10.7	28.9*	23.3*	11.5	42.0
52	HUMBOLDT	134,923	33.7	25.0	23.7	16.4	33.2
53	PLUMAS	19,523	4.3	22.2*	23.8*	6.9	58.9
54	LAKE	64,394	18.3	28.5*	25.8*	15.4	40.6
55	SISKIYOU	44,598	11.7	26.2*	25.9*	13.3	45.7
56	CALAVERAS	45,045	13.7	30.3*	26.2*	14.2	44.2
57	MODOC	9,518	2.7	28.0*	26.4*	4.7	81.7
58	MARIPOSA	17,817	5.3	29.9*	29.0*	9.9	66.1

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

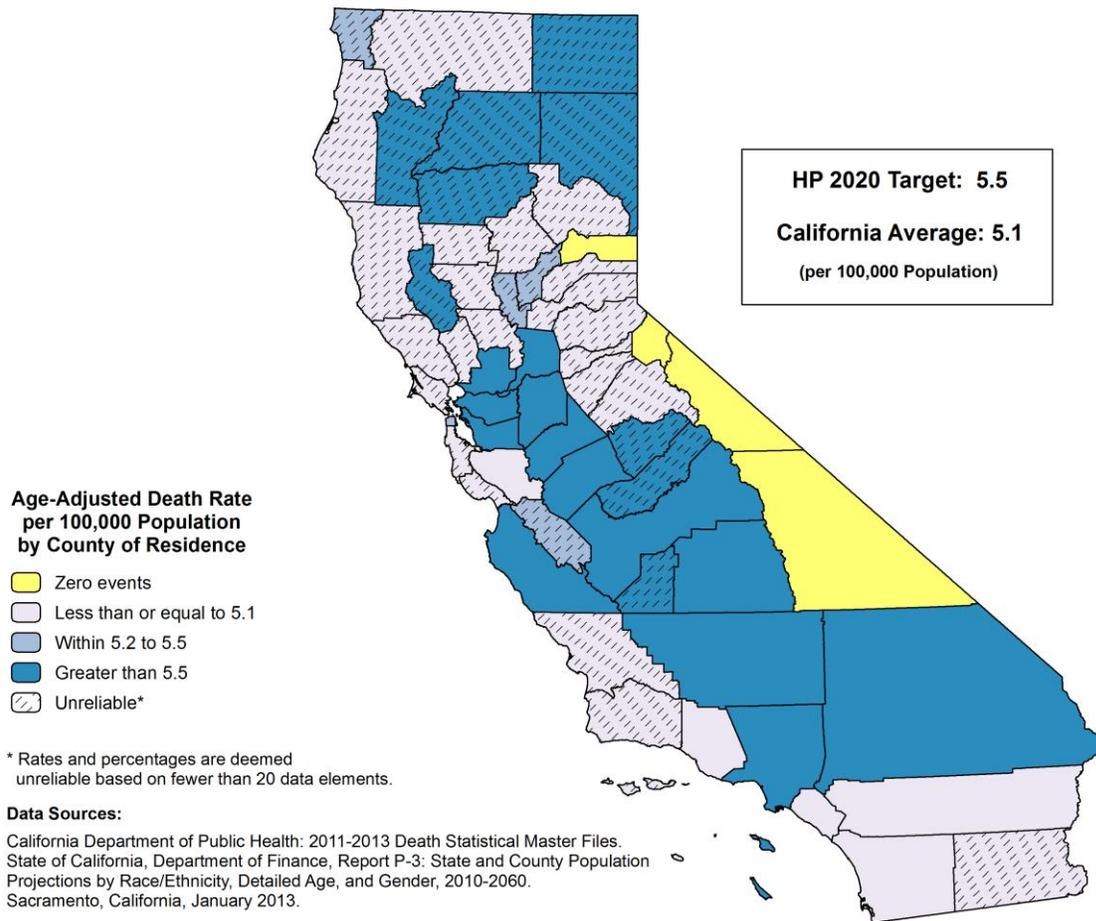
\* Rates are deemed unreliable based on fewer than 20 data elements.

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

Sources: California Department of Public Health, 2011-2013 Death Statistical Master Files.

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, January 2013.

## DEATHS DUE TO HOMICIDE, 2011-2013



The crude death rate from homicide for California was 5.2 deaths per 100,000 population, a risk of dying from homicide equivalent to approximately one death for every 19,181.6 persons. This rate was based on a 2011 through 2013 three-year average number of deaths equaling 1,972.0 and a population count of 37,826,160 as of July 1, 2012. Among counties with reliable rates, the crude rate ranged from 11.3 in San Joaquin County to 2.2 in Orange County, a factor of 5.1 to 1.

The age-adjusted death rate from homicide for California during the 2011 through 2013 three-year period was 5.1 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 11.3 in San Joaquin County to 2.2 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-six counties with unreliable rates and four counties with no homicide deaths met the objective.

The California average age-adjusted death rate from homicide for the 2008-2010 period was 5.5.

**TABLE 17  
DEATHS DUE TO HOMICIDE  
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE  
CALIFORNIA COUNTIES, 2011-2013**

RANK ORDER	COUNTY OF RESIDENCE	2012 POPULATION	2011-2013 DEATHS (AVERAGE)	CRUDE DEATHRATE	AGE-ADJUSTED DEATHRATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
1	INYO	18,637	0.0	-	-	-	-
2	MONO	14,258	0.0	-	-	-	-
3	SIERRA	3,089	0.0	-	-	-	-
4	ALPINE	1,127	0.0	-	-	-	-
5	MARIN	254,882	1.7	0.7*	0.8*	0.1	3.3
6	NAPA	138,577	2.0	1.4*	1.4*	0.2	5.0
7	SAN LUIS OBISPO	271,021	5.3	2.0*	1.7*	0.6	3.9
8	YOLO	204,314	4.0	2.0*	2.0*	0.6	5.2
9	TUOLUMNE	54,339	0.7	1.2*	2.0*	0.0	15.3
10	ORANGE	3,071,933	67.3	2.2	2.2	1.7	2.7
11	PLACER	360,680	7.7	2.1*	2.2*	0.9	4.4
12	SONOMA	489,283	11.0	2.2*	2.3*	1.1	4.0
13	SANTA BARBARA	427,358	10.3	2.4*	2.3*	1.1	4.3
14	IMPERIAL	178,659	4.7	2.6*	2.5*	0.8	6.1
15	NEVADA	98,202	2.3	2.4*	2.7*	0.4	9.1
16	GLENN	28,208	0.7	2.4*	2.8*	0.0	20.8
17	SAN MATEO	736,362	19.3	2.6*	2.8*	1.7	4.3
18	PLUMAS	19,523	0.3	1.7*	3.0*	0.0	39.0
19	SAN DIEGO	3,147,220	100.3	3.2	3.1	2.5	3.7
20	VENTURA	834,109	26.0	3.1	3.1	2.1	4.6
21	SANTA CLARA	1,828,597	58.7	3.2	3.2	2.4	4.2
22	SISKIYOU	44,598	1.3	3.0*	3.3*	0.2	15.0
23	EL DORADO	180,599	5.0	2.8*	3.4*	1.1	7.8
24	AMADOR	36,899	1.3	3.6*	4.1*	0.2	18.9
25	SANTA CRUZ	267,569	11.7	4.4*	4.2*	2.2	7.5
26	BUTTE	221,118	10.0	4.5*	4.4*	2.1	8.1
27	RIVERSIDE	2,244,399	99.0	4.4	4.4	3.6	5.4
28	MENDOCINO	88,566	3.7	4.1*	4.5*	1.1	11.9
29	HUMBOLDT	134,923	6.3	4.7*	4.7*	1.8	10.1
30	CALAVERAS	45,045	2.0	4.4*	4.9*	0.6	17.8
31	COLUSA	21,614	1.0	4.6*	5.1*	0.1	28.3
	<b>CALIFORNIA</b>	<b>37,826,160</b>	<b>1,972.0</b>	<b>5.2</b>	<b>5.1</b>	<b>4.9</b>	<b>5.4</b>
32	SUTTER	95,351	4.7	4.9*	5.2*	1.6	12.4
33	SAN FRANCISCO	820,349	46.0	5.6	5.3	3.9	7.1
34	DEL NORTE	28,359	1.3	4.7*	5.3*	0.3	24.5
35	YUBA	73,021	3.3	4.6*	5.4*	1.2	15.0
36	SAN BENITO	56,527	3.0	5.3*	5.5*	1.1	16.2
	<b>HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: IVP-29</b>					<b>5.5</b>	
37	LASSEN	33,650	1.7	5.0*	5.7*	0.5	22.9
38	LOS ANGELES	9,911,665	598.3	6.0	5.8	5.3	6.3
39	MADERA	151,790	9.0	5.9*	5.8*	2.7	11.1
40	SHASTA	178,477	9.7	5.4*	5.9*	2.8	10.9
41	SACRAMENTO	1,439,874	86.3	6.0	6.0	4.8	7.4
42	TEHAMA	63,623	3.3	5.2*	6.1*	1.4	17.0
43	SAN BERNARDINO	2,065,016	131.0	6.3	6.4	5.3	7.5
44	KINGS	150,843	9.3	6.2*	6.5*	3.0	12.1
45	CONTRA COSTA	1,069,803	68.0	6.4	6.7	5.2	8.4
46	STANISLAUS	522,651	36.3	7.0	6.7	4.7	9.3
47	MARIPOSA	17,817	1.0	5.6*	7.3*	0.2	40.4
48	MERCED	261,708	21.3	8.2	7.8	4.8	11.8
49	FRESNO	946,823	74.0	7.8	7.8	6.1	9.8
50	ALAMEDA	1,540,790	126.3	8.2	8.1	6.7	9.5
51	KERN	855,522	69.7	8.1	8.2	6.4	10.4
52	TULARE	451,627	37.7	8.3	8.3	5.9	11.4
53	SOLANO	415,913	37.3	9.0	9.2	6.5	12.6
54	MONTEREY	422,868	42.3	10.0	9.5	6.9	12.8
55	LAKE	64,394	5.3	8.3*	9.5*	3.2	21.7
56	SAN JOAQUIN	699,003	78.7	11.3	11.3	9.0	14.1
57	MODOC	9,518	1.3	14.0*	13.0*	0.7	59.9
58	TRINITY	13,470	2.0	14.8*	16.7*	2.0	60.2

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

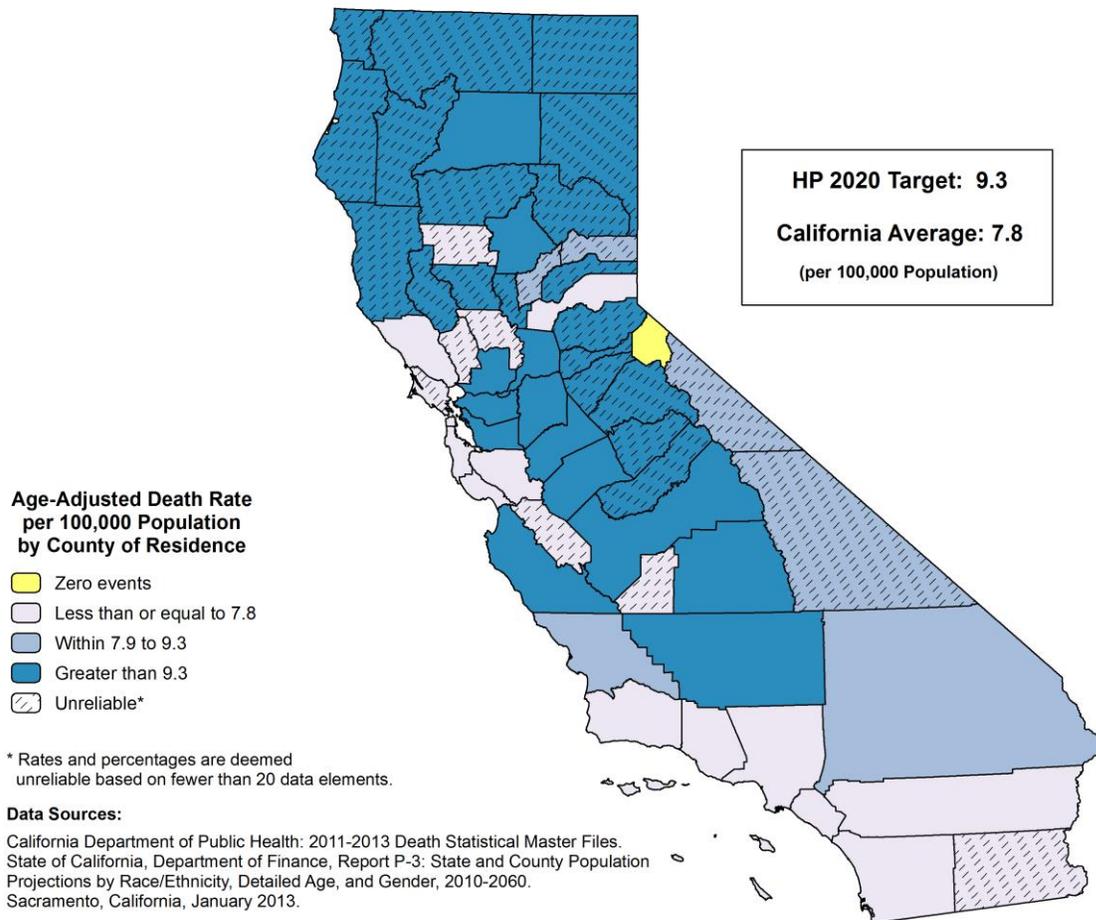
\* Rates are deemed unreliable based on fewer than 20 data elements.

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

Sources: California Department of Public Health, 2011-2013 Death Statistical Master Files.

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, January 2013.

## FIREARM-RELATED DEATHS, 2011-2013



The crude death rate from firearm-related injuries for California was 7.9 deaths per 100,000 population, a risk of dying from firearm-related injuries equivalent to approximately one death for every 12,587.7 persons. This rate was based on the 2011 through 2013 three-year average number of deaths equaling 3,005.0 and a population count of 37,826,160 as of July 1, 2012. Among counties with reliable rates, the crude rate ranged from 16.2 in Shasta County to 4.4 in San Mateo County, a factor of 3.7 to 1.

The age-adjusted death rate from firearm-related injuries for California during the 2011 through 2013 three-year period was 7.8 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 14.5 in Shasta County to 4.4 in San Mateo County.

Fourteen 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 eleven counties with unreliable age-adjusted death rates and one county with no deaths due to firearm-related injuries met the objective.

The California average age-adjusted death rate from firearm-related injuries for the 2008-2010 period was 8.0.

**TABLE 18  
FIREARM-RELATED DEATHS  
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE  
CALIFORNIA COUNTIES, 2011-2013**

RANK ORDER	COUNTY OF RESIDENCE	2012 POPULATION	2011-2013 DEATHS (AVERAGE)	CRUDE DEATHRATE	AGE-ADJUSTED DEATHRATE	95% CONFIDENCE LIMITS		
						LOWER	UPPER	
1	ALPINE	1,127	0.0	-	-	-	-	
2	YOLO	204,314	8.7	4.2 *	4.3 *	1.9	8.2	
3	MARIN	254,882	12.7	5.0 *	4.4 *	2.3	7.6	
4	SAN MATEO	736,362	32.7	4.4	4.4	3.0	6.2	
5	SANTA CLARA	1,828,597	84.0	4.6	4.6	3.6	5.6	
6	ORANGE	3,071,933	148.7	4.8	4.7	3.9	5.5	
7	SAN FRANCISCO	820,349	43.0	5.2	5.0	3.6	6.8	
8	KINGS	150,843	7.7	5.1 *	5.5 *	2.3	10.9	
9	SAN BENITO	56,527	3.0	5.3 *	5.5 *	1.1	16.1	
10	IMPERIAL	178,659	9.7	5.4 *	5.5 *	2.6	10.3	
11	NAPA	138,577	8.0	5.8 *	5.6 *	2.4	11.0	
12	SANTA BARBARA	427,358	25.3	5.9	5.8	3.7	8.5	
13	SONOMA	489,283	31.7	6.5	5.9	4.0	8.3	
14	SAN DIEGO	3,147,220	209.3	6.7	6.5	5.6	7.4	
15	GLENN	28,208	2.0	7.1 *	6.8 *	0.8	24.6	
16	LOS ANGELES	9,911,665	728.0	7.3	7.1	6.6	7.6	
17	VENTURA	834,109	62.0	7.4	7.3	5.6	9.3	
18	PLACER	360,680	29.3	8.1	7.5	5.0	10.8	
19	RIVERSIDE	2,244,399	169.3	7.5	7.6	6.4	8.7	
20	SANTA CRUZ	267,569	20.7	7.7	7.6	4.7	11.7	
	<b>CALIFORNIA</b>	<b>37,826,160</b>	<b>3,005.0</b>	<b>7.9</b>	<b>7.8</b>	<b>7.5</b>	<b>8.1</b>	
21	SIERRA	3,089	0.3	10.8 *	8.5 *	0.0	111.7	
22	INYO	18,637	2.7	14.3 *	8.8 *	1.6	27.1	
23	SAN LUIS OBISPO	271,021	28.7	10.6	8.8	5.9	12.7	
24	YUBA	73,021	6.3	8.7 *	8.9 *	3.4	19.0	
25	MONO	14,258	1.3	9.4 *	9.0 *	0.5	41.2	
26	SAN BERNARDINO	2,065,016	182.3	8.8	9.0	7.7	10.4	
	<b>HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: IVP-30</b>					<b>9.3</b>		
27	AMADOR	36,899	6.3	17.2 *	9.6 *	3.6	20.4	
28	SACRAMENTO	1,439,874	140.0	9.7	9.6	8.0	11.2	
29	ALAMEDA	1,540,790	154.0	10.0	9.8	8.3	11.4	
30	CONTRA COSTA	1,069,803	102.3	9.6	9.8	7.9	11.7	
31	FRESNO	946,823	93.7	9.9	10.0	8.1	12.3	
32	STANISLAUS	522,651	53.0	10.1	10.1	7.5	13.1	
33	EL DORADO	180,599	18.7	10.3 *	10.1 *	6.0	15.8	
34	TUOLUMNE	54,339	6.0	11.0 *	10.6 *	3.9	23.0	
35	SUTTER	95,351	10.0	10.5 *	10.7 *	5.1	19.7	
36	MONTEREY	422,868	46.7	11.0	10.8	7.9	14.3	
37	MERCED	261,708	29.0	11.1	11.0	7.3	15.7	
38	KERN	855,522	93.7	10.9	11.5	9.3	14.0	
39	HUMBOLDT	134,923	16.7	12.4 *	11.5 *	6.7	18.5	
40	BUTTE	221,118	28.0	12.7	12.0	8.0	17.3	
41	PLUMAS	19,523	2.3	12.0 *	12.2 *	1.9	40.6	
42	MADERA	151,790	18.7	12.3 *	12.4 *	7.5	19.5	
43	TULARE	451,627	54.3	12.0	12.5	9.4	16.3	
44	SOLANO	415,913	52.7	12.7	12.7	9.5	16.7	
45	NEVADA	98,202	15.3	15.6 *	12.8 *	7.2	21.0	
46	SAN JOAQUIN	699,003	96.7	13.8	13.9	11.3	17.0	
47	SHASTA	178,477	29.0	16.2	14.5	9.7	20.8	
48	LASSEN	33,650	5.0	14.9 *	14.5 *	4.7	33.9	
49	TEHAMA	63,623	10.7	16.8 *	15.0 *	7.4	27.1	
50	LAKE	64,394	11.3	17.6 *	15.4 *	7.8	27.3	
51	COLUSA	21,614	3.3	15.4 *	15.9 *	3.7	44.1	
52	MENDOCINO	88,566	14.3	16.2 *	16.1 *	8.9	26.8	
53	SISKIYOU	44,598	8.3	18.7 *	16.3 *	7.2	31.7	
54	DEL NORTE	28,359	5.7	20.0 *	19.2 *	6.8	42.6	
55	CALAVERAS	45,045	10.3	22.9 *	20.1 *	9.8	36.7	
56	MARIPOSA	17,817	4.7	26.2 *	24.9 *	7.7	59.7	
57	MODOC	9,518	3.0	31.5 *	25.0 *	5.2	73.0	
58	TRINITY	13,470	4.0	29.7 *	26.5 *	7.2	67.8	

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

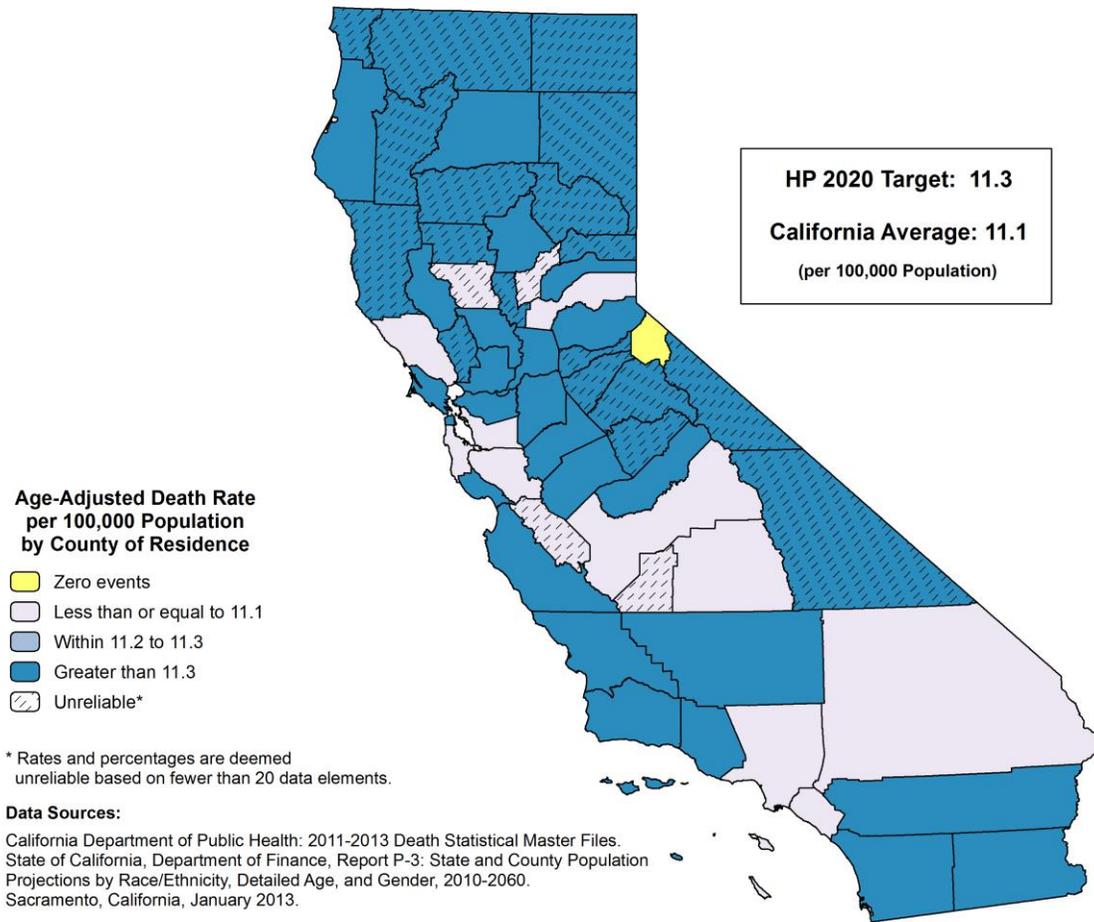
\* Rates are deemed unreliable based on fewer than 20 data elements.

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

Sources: California Department of Public Health, 2011-2013 Death Statistical Master Files.

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, January 2013.

## DRUG-INDUCED DEATHS, 2011-2013



The crude death rate from drug-induced deaths for California was 11.5 deaths per 100,000 population, a risk of dying from drug-induced deaths equivalent to approximately one death for every 8,683.1 persons. This rate was based on a 2011 through 2013 three-year average number of deaths equaling 4,356.3 and a population count of 37,826,160 as of July 1, 2012. Among counties with reliable rates, the crude rate ranged from 45.0 in Lake County to 7.3 in Los Angeles County, a factor of 6.1 to 1.

The age-adjusted death rate from drug-induced deaths for California during the 2011 through 2013 three-year period was 11.1 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 41.3 in Lake County to 7.0 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 drug-induced deaths per 100,000 population. An additional four counties with unreliable age-adjusted death rates and one county with no drug-induced deaths met the objective.

The California average age-adjusted death rate from drug-induced deaths for the 2008-2010 period was 11.0.

**TABLE 19  
DRUG-INDUCED DEATHS  
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE  
CALIFORNIA COUNTIES, 2011-2013**

RANK ORDER	COUNTY OF RESIDENCE	2012 POPULATION	2011-2013 DEATHS (AVERAGE)	CRUDE DEATH RATE	AGE-ADJUSTED DEATH RATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
1	ALPINE	1,127	0.0	-	-	-	-
2	LOS ANGELES	9,911,665	726.0	7.3	7.0	6.5	7.6
3	SAN MATEO	736,362	59.0	8.0	7.3	5.5	9.4
4	SANTA CLARA	1,828,597	148.3	8.1	7.6	6.4	8.8
5	SAN BENITO	56,527	5.0	8.8*	8.2*	2.7	19.2
6	YUBA	73,021	6.3	8.7*	8.4*	3.2	17.9
7	PLACER	360,680	33.3	9.2	8.9	6.2	12.5
8	TULARE	451,627	37.0	8.2	9.1	6.4	12.6
9	SAN BERNARDINO	2,065,016	196.7	9.5	9.5	8.1	10.8
10	SONOMA	489,283	50.3	10.3	9.6	7.1	12.7
11	ALAMEDA	1,540,790	161.7	10.5	9.7	8.2	11.2
12	COLUSA	21,614	2.0	9.3*	10.0*	1.2	36.0
13	FRESNO	946,823	89.0	9.4	10.0	8.0	12.3
14	ORANGE	3,071,933	332.7	10.8	10.4	9.2	11.5
15	KINGS	150,843	16.0	10.6*	10.8*	6.2	17.6
	<b>CALIFORNIA</b>	<b>37,826,160</b>	<b>4,356.3</b>	<b>11.5</b>	<b>11.1</b>	<b>10.8</b>	<b>11.4</b>
<b>HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: SA-12</b>						<b>11.3</b>	
16	MARIN	254,882	33.3	13.1	11.5	7.9	16.1
17	NAPA	138,577	18.3	13.2*	11.5*	6.9	18.2
18	SOLANO	415,913	50.0	12.0	11.6	8.6	15.3
19	CONTRA COSTA	1,069,803	134.0	12.5	11.7	9.7	13.7
20	MONTEREY	422,868	49.3	11.7	11.9	8.9	15.8
21	DEL NORTE	28,359	4.0	14.1*	12.1*	3.3	30.9
22	SANTA BARBARA	427,358	50.0	11.7	12.1	9.0	15.9
23	YOLO	204,314	23.3	11.4	12.1	7.7	18.2
24	MONO	14,258	1.7	11.7*	12.9*	1.1	51.6
25	SIERRA	3,089	0.7	21.6*	12.9*	0.1	96.1
26	INYO	18,637	2.7	14.3*	12.9*	2.3	40.1
27	SAN DIEGO	3,147,220	431.0	13.7	13.1	11.9	14.4
28	RIVERSIDE	2,244,399	297.0	13.2	13.3	11.8	14.8
29	VENTURA	834,109	117.3	14.1	13.9	11.3	16.4
30	IMPERIAL	178,659	24.7	13.8	14.4	9.3	21.2
31	SACRAMENTO	1,439,874	216.3	15.0	14.5	12.5	16.5
32	SAN LUIS OBISPO	271,021	40.0	14.8	14.6	10.4	19.8
33	MERCED	261,708	36.3	13.9	15.1	10.6	20.8
34	STANISLAUS	522,651	81.0	15.5	15.3	12.1	19.0
35	MENDOCINO	88,566	14.7	16.6*	15.5*	8.6	25.8
36	SUTTER	95,351	14.3	15.0*	15.6*	8.6	25.9
37	SAN FRANCISCO	820,349	153.7	18.7	16.4	13.8	19.0
38	MADERA	151,790	24.3	16.0	16.4	10.6	24.4
39	SAN JOAQUIN	699,003	118.7	17.0	17.3	14.1	20.4
40	GLENN	28,208	4.7	16.5*	17.5*	5.4	41.9
41	EL DORADO	180,599	33.3	18.5	17.6	12.1	24.7
42	SANTA CRUZ	267,569	50.7	18.9	18.4	13.7	24.2
43	NEVADA	98,202	20.0	20.4	18.7	11.4	28.8
44	AMADOR	36,899	9.0	24.4*	19.1*	8.7	36.3
45	TEHAMA	63,623	11.3	17.8*	19.3*	9.7	34.2
46	MARIPOSA	17,817	5.0	28.1*	19.9*	6.5	46.5
47	KERN	855,522	168.0	19.6	20.3	17.2	23.5
48	SISKIYOU	44,598	7.3	16.4*	20.5*	8.5	41.6
49	TUOLUMNE	54,339	13.0	23.9*	22.7*	12.1	38.8
50	TRINITY	13,470	2.7	19.8*	22.8*	4.1	70.7
51	LASSEN	33,650	8.7	25.8*	23.4*	10.5	44.9
52	MODOC	9,518	2.0	21.0*	27.0*	3.3	97.4
53	CALAVERAS	45,045	12.0	26.6*	27.5*	14.2	48.1
54	PLUMAS	19,523	6.3	32.4*	28.3*	10.7	60.5
55	SHASTA	178,477	50.3	28.2	28.4	21.1	37.5
56	BUTTE	221,118	71.7	32.4	32.6	25.5	41.1
57	HUMBOLDT	134,923	51.3	38.0	36.2	27.0	47.5
58	LAKE	64,394	29.0	45.0	41.3	27.6	59.2

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

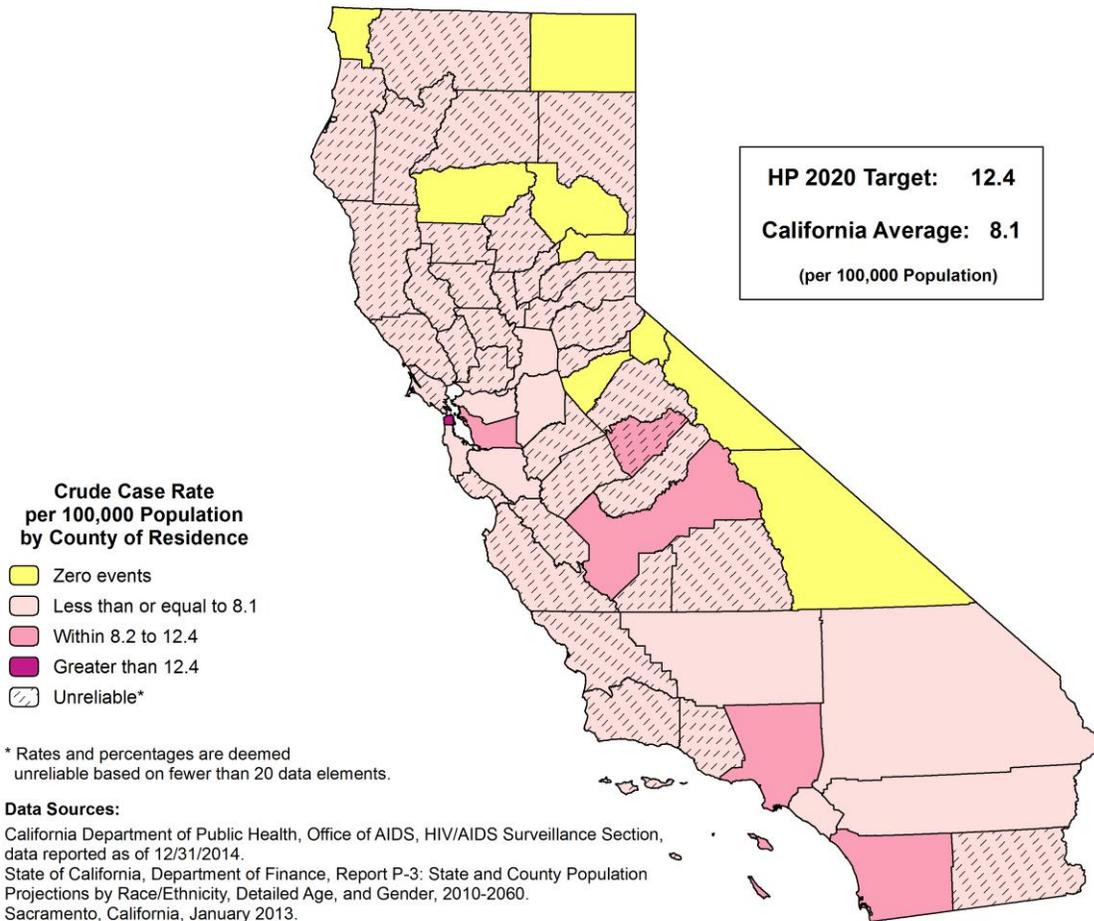
\* Rates are deemed unreliable based on fewer than 20 data elements.

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

Sources: California Department of Public Health, 2011-2013 Death Statistical Master Files.

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, January 2013.

## REPORTED INCIDENCE OF AIDS AMONG POPULATION AGES 13 YEARS AND OLDER, 2011-2013



The crude case rate of reported AIDS cases for Californians, aged 13 years and older, was 8.1 cases per 100,000 of corresponding age population, or approximately one reported AIDS case for every 12,309.3 population, aged 13 years and older. This rate was based on a 2011 through 2013 three-year average reported number of cases of persons aged 13 years and older equaling 2,542.3 and a corresponding age population count of 31,294,049 as of July 1, 2012.

Among counties with reliable rates, the crude case rate ranged from 30.4 in San Francisco County to 4.0 in San Mateo County, a factor of 7.6 to 1.

Thirteen counties with reliable crude case rates and California as a whole met the Healthy People 2020 National Objective HIV-4 of no more than 12.4 new AIDS cases per 100,000 population, aged 13 years and older. An additional thirty-five counties with unreliable rates and nine counties with no new AIDS cases met the objective.

The California crude case rate of reported AIDS cases, aged 13 years and older, for the 2008-2010 period was 11.2.

**TABLE 20  
REPORTED INCIDENCE OF AIDS AMONG POPULATION AGES 13 YEARS AND OVER  
RANKED BY THREE-YEAR AVERAGE CRUDE CASE RATE  
CALIFORNIA COUNTIES, 2011-2013**

RANK ORDER	COUNTY OF RESIDENCE	2012 POPULATION AGED 13 AND OVER	2011-2013 CASES (AVERAGE)	CRUDE CASE RATE	95% CONFIDENCE LIMITS	
					LOWER	UPPER
1	TEHAMA	52,552	0.0	-	-	-
2	CALAVERAS	39,605	0.0	-	-	-
3	DEL NORTE	24,212	0.0	-	-	-
4	PLUMAS	17,178	0.0	-	-	-
5	INYO	16,019	0.0	-	-	-
6	MONO	12,085	0.0	-	-	-
7	MODOC	8,103	0.0	-	-	-
8	SIERRA	2,760	0.0	-	-	-
9	ALPINE	947	0.0	-	-	-
10	SAN BENITO	45,596	0.3	0.7*	0.0	9.6
11	PLACER	301,601	4.0	1.3*	0.4	3.4
12	MENDOCINO	74,870	1.0	1.3*	0.0	7.4
13	BUTTE	188,474	2.7	1.4*	0.3	4.4
14	GLENN	22,721	0.3	1.5*	0.0	19.2
15	NEVADA	86,007	1.3	1.6*	0.1	7.1
16	HUMBOLDT	115,763	2.0	1.7*	0.2	6.2
17	EL DORADO	154,200	2.7	1.7*	0.3	5.4
18	SUTTER	77,012	1.3	1.7*	0.1	8.0
19	SHASTA	150,793	2.7	1.8*	0.3	5.5
20	LAKE	55,106	1.0	1.8*	0.0	10.1
21	COLUSA	17,132	0.3	1.9*	0.0	25.4
22	LASSEN	29,749	0.7	2.2*	0.0	16.7
23	YUBA	57,844	1.3	2.3*	0.1	10.6
24	YOLO	172,828	4.0	2.3*	0.6	5.9
25	MERCED	204,796	5.0	2.4*	0.8	5.7
26	TRINITY	11,868	0.3	2.8*	0.0	36.7
27	VENTURA	688,236	19.7	2.9*	1.7	4.4
28	SANTA BARBARA	357,511	10.7	3.0*	1.5	5.4
29	SAN LUIS OBISPO	235,601	7.7	3.3*	1.4	6.5
30	SANTA CRUZ	227,859	7.7	3.4*	1.4	6.7
31	MARIN	217,352	7.3	3.4*	1.4	6.8
32	TUOLUMNE	48,047	1.7	3.5*	0.3	13.9
33	STANISLAUS	419,606	14.7	3.5*	1.9	5.8
34	MADERA	121,335	4.3	3.6*	1.0	8.8
35	KINGS	120,775	4.3	3.6*	1.0	8.9
36	SAN MATEO	617,686	24.7	4.0	2.6	5.9
37	AMADOR	32,984	1.3	4.0*	0.2	18.6
38	NAPA	116,798	5.0	4.3*	1.4	10.0
39	SISKIYOU	38,291	1.7	4.4*	0.4	17.5
40	MONTEREY	340,826	15.3	4.5*	2.5	7.4
41	SONOMA	414,810	18.7	4.5*	2.7	7.1
42	TULARE	347,446	16.0	4.6*	2.6	7.5
43	SOLANO	346,785	16.7	4.8*	2.8	7.7
44	SAN JOAQUIN	558,099	28.3	5.1	3.4	7.3
45	SANTA CLARA	1,508,115	80.7	5.3	4.2	6.7
46	ORANGE	2,561,938	147.3	5.8	4.8	6.7
47	SAN BERNARDINO	1,657,663	102.0	6.2	5.0	7.3
48	CONTRA COSTA	889,904	55.0	6.2	4.7	8.0
49	RIVERSIDE	1,816,307	115.7	6.4	5.2	7.5
50	KERN	672,702	43.3	6.4	4.7	8.7
51	SACRAMENTO	1,181,284	78.7	6.7	5.3	8.3
52	IMPERIAL	142,236	10.0	7.0*	3.4	12.9
	<b>CALIFORNIA</b>	<b>31,294,049</b>	<b>2,542.3</b>	<b>8.1</b>	<b>7.8</b>	<b>8.4</b>
53	MARIPOSA	15,749	1.3	8.5*	0.5	39.0
54	FRESNO	747,995	63.3	8.5	6.5	10.8
55	SAN DIEGO	2,628,149	249.0	9.5	8.3	10.7
56	ALAMEDA	1,290,426	133.0	10.3	8.6	12.1
57	LOS ANGELES	8,256,565	1,002.7	12.1	11.4	12.9
	<b>HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: HIV-4</b>			<b>12.4</b>		
58	SAN FRANCISCO	735,149	223.7	30.4	26.4	34.4

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

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

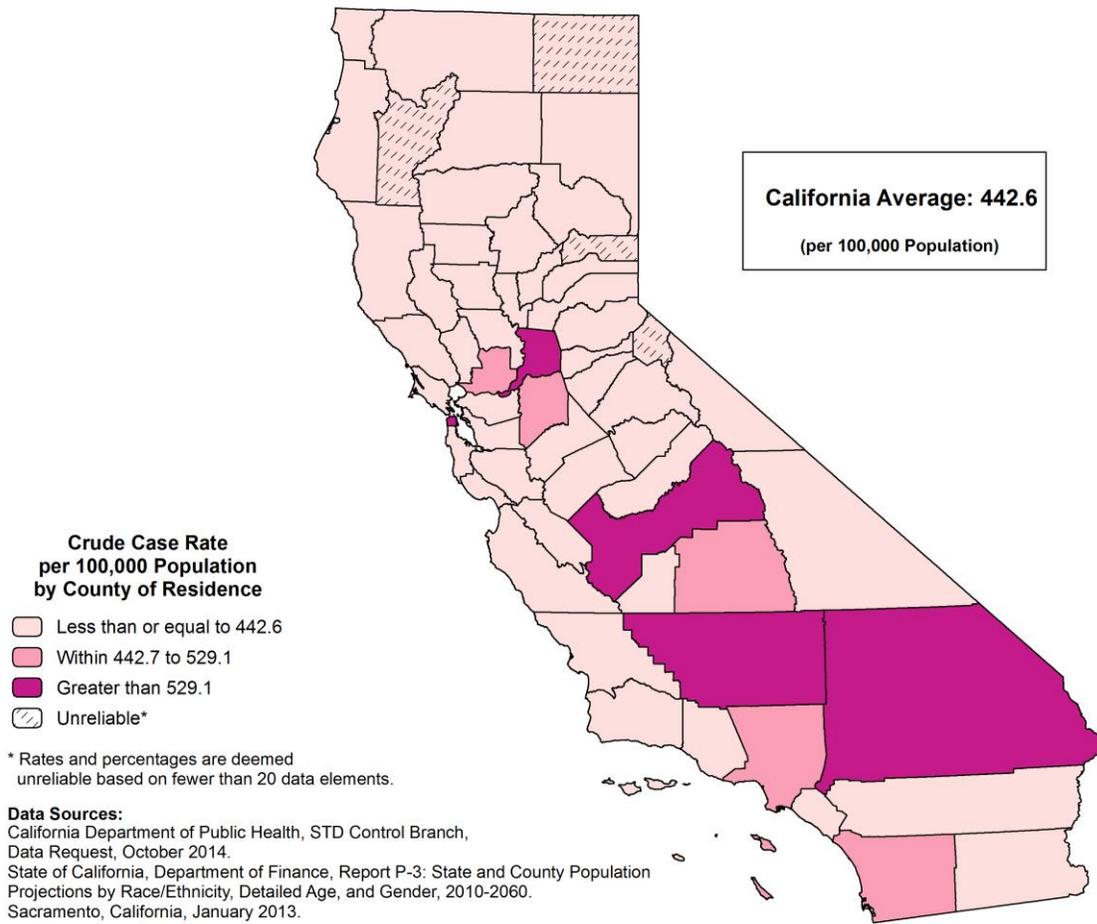
One incidence in 2011 was not attributed to a designated county of residence and excluded.

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

Sources: California Department of Public Health, Office of AIDS, HIV/AIDS Surveillance Section, data reported as of 12/31/2014.

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, January 2013.

## REPORTED INCIDENCE OF CHLAMYDIA, 2011-2013



The crude case rate of reported chlamydia cases for California was 442.6 cases per 100,000 population or approximately one reported chlamydia case for every 225.9 persons. This rate was based on a 2011 through 2013 three-year average reported number of cases equaling 167,428.3 and population count of 37,826,160 as of July 1, 2012.

Among counties with reliable rates, the crude case rate ranged from 705.2 in Kern County to 119.7 in Mariposa County, a factor of 5.9 to 1.

Prevalence data are not available in all California counties to evaluate the Healthy People 2020 National Objective STD-1, as the Health People objective is restricted to females who are 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 chlamydia cases for the 2008-2010 period was 406.5.

**TABLE 21  
REPORTED INCIDENCE OF CHLAMYDIA  
RANKED BY THREE-YEAR AVERAGE CRUDE CASE RATE  
CALIFORNIA COUNTIES, 2011-2013**

RANK ORDER	COUNTY OF RESIDENCE	2012 POPULATION	2011-2013 CASES (AVERAGE)	CRUDE CASE RATE	95% CONFIDENCE LIMITS	
					LOWER	UPPER
<b>HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: STD-1 NOT APPLICABLE</b>						
1	SIERRA	3,089	2.0	64.7 *	7.8	233.9
2	MODOC	9,518	8.7	91.1 *	40.9	174.9
3	TRINITY	13,470	12.7	94.0 *	49.6	161.9
4	MARIPOSA	17,817	21.3	119.7	74.4	182.4
5	COLUSA	21,614	28.0	129.5	86.1	187.2
6	DEL NORTE	28,359	37.7	132.8	93.8	182.6
7	ALPINE	1,127	1.7	147.9 *	13.1	593.5
8	EL DORADO	180,599	278.3	154.1	136.0	172.2
9	CALAVERAS	45,045	74.7	165.8	130.3	207.9
10	NEVADA	98,202	167.3	170.4	144.6	196.2
11	MONO	14,258	25.3	177.7	115.4	261.6
12	SISKIYOU	44,598	79.3	177.9	140.9	221.6
13	AMADOR	36,899	66.0	178.9	138.3	227.6
14	TUOLUMNE	54,339	98.7	181.6	147.5	221.1
15	MARIN	254,882	499.3	195.9	178.7	213.1
16	LASSEN	33,650	67.0	199.1	154.3	252.9
17	PLACER	360,680	771.0	213.8	198.7	228.9
18	NAPA	138,577	320.3	231.2	205.8	256.5
19	SAN MATEO	736,362	1,853.7	251.7	240.3	263.2
20	PLUMAS	19,523	50.3	257.8	191.6	339.6
21	LAKE	64,394	168.3	261.4	221.9	300.9
22	SUTTER	95,351	249.3	261.5	229.0	293.9
23	GLENN	28,208	76.0	269.4	212.3	337.2
24	ORANGE	3,071,933	8,401.3	273.5	267.6	279.3
25	HUMBOLDT	134,923	395.3	293.0	264.1	321.9
26	YUBA	73,021	216.0	295.8	256.4	335.3
27	SONOMA	489,283	1,461.0	298.6	283.3	313.9
28	TEHAMA	63,623	192.7	302.8	260.1	345.6
29	VENTURA	834,109	2,558.0	306.7	294.8	318.6
30	SANTA CLARA	1,828,597	5,629.7	307.9	299.8	315.9
31	INYO	18,637	58.7	314.8	239.4	406.3
32	YOLO	204,314	643.7	315.0	290.7	339.4
33	SANTA CRUZ	267,569	871.3	325.6	304.0	347.3
34	SHASTA	178,477	584.0	327.2	300.7	353.8
35	SAN LUIS OBISPO	271,021	889.0	328.0	306.5	349.6
36	MENDOCINO	88,566	309.0	348.9	310.0	387.8
37	IMPERIAL	178,659	638.3	357.3	329.6	385.0
38	STANISLAUS	522,651	1,924.3	368.2	351.7	384.6
39	SAN BENITO	56,527	209.3	370.3	320.2	420.5
40	KINGS	150,843	576.3	382.1	350.9	413.3
41	MONTEREY	422,868	1,620.7	383.3	364.6	401.9
42	CONTRA COSTA	1,069,803	4,108.0	384.0	372.3	395.7
43	RIVERSIDE	2,244,399	8,930.0	397.9	389.6	406.1
44	BUTTE	221,118	886.7	401.0	374.6	427.4
45	MERCED	261,708	1,061.0	405.4	381.0	429.8
46	SANTA BARBARA	427,358	1,798.0	420.7	401.3	440.2
47	ALAMEDA	1,540,790	6,539.3	424.4	414.1	434.7
48	MADERA	151,790	667.3	439.6	406.3	473.0
	<b>CALIFORNIA</b>	<b>37,826,160</b>	<b>167,428.3</b>	<b>442.6</b>	<b>440.5</b>	<b>444.7</b>
49	SOLANO	415,913	1,848.0	444.3	424.1	464.6
50	TULARE	451,627	2,072.7	458.9	439.2	478.7
51	SAN DIEGO	3,147,220	16,005.3	508.6	500.7	516.4
52	SAN JOAQUIN	699,003	3,590.3	513.6	496.8	530.4
53	LOS ANGELES	9,911,665	50,997.7	514.5	510.1	519.0
54	SAN BERNARDINO	2,065,016	11,227.7	543.7	533.7	553.8
55	SACRAMENTO	1,439,874	8,482.3	589.1	576.6	601.6
56	SAN FRANCISCO	820,349	4,916.7	599.3	582.6	616.1
57	FRESNO	946,823	6,128.7	647.3	631.1	663.5
58	KERN	855,522	6,033.0	705.2	687.4	723.0

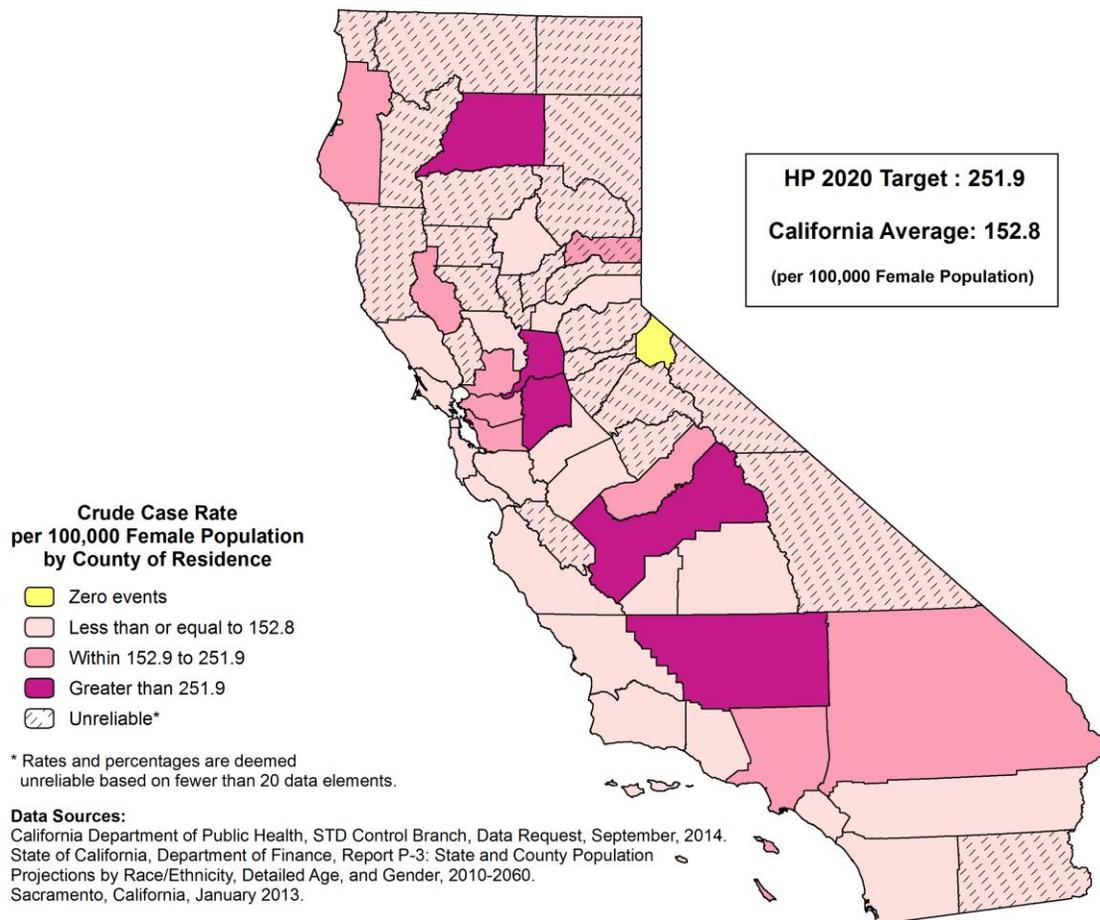
\* Rates are deemed unreliable based on fewer than 20 data elements.

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

Sources: California Department of Public Health, STD Control Branch, Data Request, October 2014.

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, January 2013.

## REPORTED INCIDENCE OF GONORRHEA AMONG FEMALES 15 TO 44 YEARS OLD, 2011-2013



The crude case rate of reported gonorrhea cases among females, aged 15 to 44 years old, for California was 152.8 cases per 100,000 female population, aged 15 to 44 years old, or approximately one reported gonorrhea case for every 654.6 females in the corresponding age group. This rate was based on a 2011 through 2013 three-year average number of reported cases among females, aged 15 to 44, equaling 12,095.7 and a corresponding female population count of 7,917,877 as of July 1, 2012.

Among counties with reliable rates, the crude case rate ranged from 405.9 in Fresno County to 48.7 in San Luis Obispo County, a factor of 8.3 to 1.

Twenty-eight 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 gonorrhea cases per 100,000 female population, aged 15 to 44 years old. An additional twenty-four counties with unreliable rates and one county with no new gonorrhea cases among females aged 15 to 44 years met the objective.

The California crude case rate of reported gonorrhea cases among females, aged 15 to 44 years old, for the 2008-2010 period was 130.4

**TABLE 22F  
REPORTED INCIDENCE OF GONORRHEA AMONG FEMALES 15 TO 44 YEARS OLD  
RANKED BY THREE-YEAR AVERAGE CRUDE CASE RATE  
CALIFORNIA COUNTIES, 2011-2013**

RANK ORDER	COUNTY OF RESIDENCE	2012 FEMALE POPULATION 15 TO 44 YRS OLD	2011-2013 CASES (AVERAGE)	CRUDE CASE RATE	95% CONFIDENCE LIMITS	
					LOWER	UPPER
1	ALPINE	139	0.0	-	-	-
2	DEL NORTE	4,196	0.3	7.9 *	0.0	103.9
3	INYO	2,929	0.3	11.4 *	0.0	148.8
4	MONO	2,790	0.3	11.9 *	0.0	156.2
5	TRINITY	1,816	0.3	18.4 *	0.0	240.0
6	MODOC	1,393	0.3	23.9 *	0.0	312.9
7	PLUMAS	2,704	0.7	24.7 *	0.1	184.2
8	MARIPOSA	2,497	0.7	26.7 *	0.1	199.5
9	EL DORADO	29,365	9.0	30.6 *	14.0	58.2
10	LASSEN	4,266	1.3	31.3 *	1.7	143.9
11	CALAVERAS	6,178	2.3	37.8 *	5.7	125.4
12	COLUSA	4,107	1.7	40.6 *	3.6	162.9
13	SAN LUIS OBISPO	50,613	24.7	48.7	31.4	72.1
14	SAN MATEO	144,234	70.3	48.8	38.0	61.6
15	NAPA	25,684	13.0	50.6 *	27.0	86.6
16	IMPERIAL	35,161	18.3	52.1 *	31.1	82.1
17	NEVADA	14,635	7.7	52.4 *	22.1	104.7
18	GLENN	5,227	3.0	57.4 *	11.8	167.7
19	ORANGE	642,582	383.3	59.7	53.7	65.6
20	MENDOCINO	15,037	9.7	64.3 *	30.4	119.4
21	MARIN	40,962	26.3	64.3	42.1	94.0
22	PLACER	67,223	44.3	65.9	48.0	88.4
23	SISKIYOU	6,465	4.3	67.0 *	19.5	165.8
24	SONOMA	91,342	64.3	70.4	54.3	89.9
25	YOLO	50,591	36.0	71.2	49.8	98.5
26	SANTA BARBARA	90,724	65.3	72.0	55.6	91.7
27	AMADOR	4,513	3.7	81.3 *	20.5	216.2
28	VENTURA	164,876	137.0	83.1	69.2	97.0
29	SANTA CLARA	378,762	315.7	83.3	74.1	92.5
30	SANTA CRUZ	56,073	47.0	83.8	61.6	111.5
31	TULARE	93,673	79.7	85.0	67.4	105.9
32	MERCED	55,772	51.0	91.4	68.1	120.2
33	BUTTE	44,148	43.3	98.2	71.1	132.1
34	SAN FRANCISCO	194,913	193.7	99.4	85.4	113.4
35	KINGS	27,795	27.7	99.5	66.0	144.2
36	SUTTER	18,698	19.7	105.2 *	63.9	163.0
37	SAN DIEGO	669,547	711.3	106.2	98.4	114.0
38	RIVERSIDE	465,518	505.3	108.6	99.1	118.0
39	SAN BENITO	11,675	14.0	119.9 *	65.6	201.2
40	TUOLUMNE	7,441	9.0	120.9 *	55.3	229.6
41	MONTEREY	85,988	105.0	122.1	98.8	145.5
42	TEHAMA	11,086	13.7	123.3 *	66.8	208.1
43	YUBA	14,902	19.3	129.7 *	78.5	201.8
44	STANISLAUS	108,600	144.3	132.9	111.2	154.6
	<b>CALIFORNIA</b>	<b>7,917,877</b>	<b>12,095.7</b>	<b>152.8</b>	<b>150.0</b>	<b>155.5</b>
45	LOS ANGELES	2,173,606	3,693.7	169.9	164.5	175.4
46	SIERRA	372	0.7	179.3 *	0.9	1339.5
47	HUMBOLDT	26,739	49.0	183.3	135.6	242.3
48	MADERA	32,845	62.7	190.8	146.5	244.3
49	ALAMEDA	333,842	640.0	191.7	176.9	206.6
50	SAN BERNARDINO	445,345	907.3	203.7	190.5	217.0
51	LAKE	10,109	22.3	220.9	139.0	333.5
52	SOLANO	80,808	179.7	222.3	189.8	254.8
53	CONTRA COSTA	208,247	475.3	228.3	207.7	248.8
	<b>HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: STD-6.1</b>			<b>251.9</b>		
54	SHASTA	31,143	79.0	253.7	200.8	316.2
55	SAN JOAQUIN	143,783	380.7	264.8	238.2	291.3
56	KERN	172,630	539.3	312.4	286.1	338.8
57	SACRAMENTO	301,914	1,027.3	340.3	319.5	361.1
58	FRESNO	199,655	810.3	405.9	377.9	433.8

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

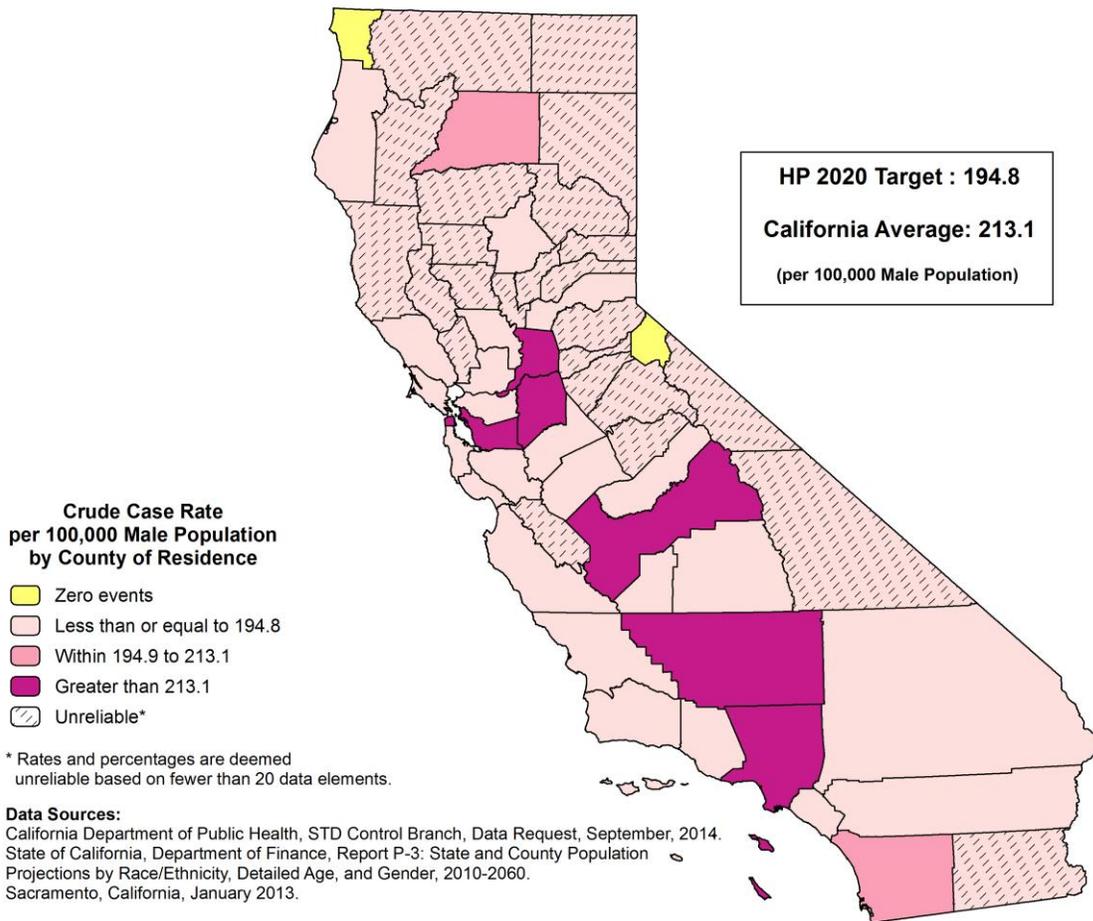
\* Rates are deemed unreliable based on fewer than 20 data elements.

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

Sources: California Department of Public Health, STD Control Branch, Data Request, September, 2014.

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, January 2013.

## REPORTED INCIDENCE OF GONORRHEA AMONG MALES 15 TO 44 YEARS OLD, 2011-2013



The crude case rate of reported gonorrhea cases among males, aged 15 to 44 years old, for California was 213.1 cases per 100,000 male population, aged 15 to 44 years old, or approximately one reported gonorrhea case for every 469.2 in the corresponding male population. This rate was based on a 2011 through 2013 three-year average number of reported cases equaling 17,618.0 and a corresponding male population count of 8,265,666 as of July 1, 2012.

Among counties with reliable rates, the crude case rate ranged from 865.0 in San Francisco County to 54.1 in San Luis Obispo County, a factor of 16.0 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 gonorrhea cases per 100,000 male population, aged 15 to 44 years old. An additional twenty-four counties with unreliable rates and two counties with no new gonorrhea cases among males, aged 15 to 44 years old, met the objective. The statewide crude case rate for new gonorrhea cases among males, aged 15 to 44 old, did not meet the national objective.

The California average crude case rate of reported gonorrhea cases among males, aged 15 to 44 years old, for the 2008-2010 period was 157.7.

**TABLE 22M  
REPORTED INCIDENCE OF GONORRHEA AMONG MALES 15 TO 44 YEARS OLD  
RANKED BY THREE-YEAR AVERAGE CRUDE CASE RATE  
CALIFORNIA COUNTIES, 2011-2013**

RANK ORDER	COUNTY OF RESIDENCE	2012 MALE POPULATION 15 TO 44 YRS OLD	2011-2013 CASES (AVERAGE)	CRUDE CASE RATE	95% CONFIDENCE LIMITS	
					LOWER	UPPER
1	DEL NORTE	7,031	0.0	-	-	-
2	ALPINE	153	0.0	-	-	-
3	AMADOR	6,940	0.7	9.6 *	0.0	71.8
4	TRINITY	2,064	0.3	16.2 *	0.0	211.2
5	LASSEN	11,882	3.3	28.1 *	6.5	78.0
6	MONO	3,304	1.0	30.3 *	0.8	168.6
7	INYO	3,189	1.0	31.4 *	0.8	174.7
8	EL DORADO	31,122	12.0	38.6 *	19.9	67.4
9	MENDOCINO	16,592	6.7	40.2 *	15.7	84.2
10	NEVADA	15,743	6.7	42.3 *	16.6	88.7
11	IMPERIAL	41,508	18.0	43.4 *	25.7	68.5
12	NAPA	27,523	12.0	43.6 *	22.5	76.2
13	MODOC	1,513	0.7	44.1 *	0.2	329.3
14	COLUSA	4,439	2.0	45.1 *	5.5	162.8
15	PLUMAS	2,845	1.3	46.9 *	2.6	215.8
16	GLENN	5,530	2.7	48.2 *	8.7	149.4
17	CALAVERAS	6,536	3.3	51.0 *	11.7	141.8
18	MARIPOSA	2,592	1.3	51.4 *	2.9	236.8
19	SAN LUIS OBISPO	59,816	32.3	54.1	37.1	76.2
20	SANTA BARBARA	99,173	58.0	58.5	44.4	75.6
21	KINGS	42,405	26.0	61.3	40.1	89.8
22	TUOLUMNE	10,207	6.3	62.0 *	23.5	132.4
23	PLACER	66,893	45.3	67.8	49.5	90.6
24	BUTTE	47,075	35.7	75.8	53.0	105.1
25	MERCED	59,190	45.3	76.6	55.9	102.4
26	SANTA CRUZ	58,659	48.3	82.4	60.8	109.1
27	VENTURA	173,361	144.7	83.4	69.8	97.0
28	SAN BENITO	11,445	9.7	84.5 *	39.9	156.9
29	SUTTER	19,538	17.3	88.7 *	52.0	141.4
30	YUBA	15,327	13.7	89.2 *	48.3	150.5
31	SONOMA	96,807	86.3	89.2	71.4	110.1
32	MARIN	43,724	40.0	91.5	65.4	124.6
33	TULARE	98,494	92.0	93.4	75.3	114.6
34	YOLO	49,236	50.0	101.6	75.4	133.9
35	ORANGE	659,535	689.3	104.5	96.7	112.3
36	MONTEREY	97,918	103.3	105.5	85.2	125.9
37	SISKIYOU	7,128	7.7	107.6 *	45.4	214.9
38	RIVERSIDE	476,179	515.3	108.2	98.9	117.6
39	SAN MATEO	149,294	162.0	108.5	91.8	125.2
40	SANTA CLARA	400,241	492.3	123.0	112.1	133.9
41	MADERA	30,682	38.3	124.9	88.6	171.3
42	LAKE	10,906	15.0	137.5 *	77.0	226.9
43	STANISLAUS	111,237	154.7	139.0	117.1	161.0
44	HUMBOLDT	29,532	42.7	144.5	104.4	194.8
45	TEHAMA	11,558	18.0	155.7 *	92.3	246.1
46	SOLANO	85,966	134.3	156.3	129.8	182.7
47	SIERRA	421	0.7	158.3 *	0.8	1182.6
48	CONTRA COSTA	207,610	336.0	161.8	144.5	179.1
49	SAN BERNARDINO	455,899	771.3	169.2	157.2	181.1
<b>HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: STD-6.2</b>				<b>194.8</b>		
50	SAN DIEGO	727,276	1,440.3	198.0	187.8	208.3
51	SHASTA	31,856	65.7	206.1	159.3	262.4
	<b>CALIFORNIA</b>	<b>8,265,666</b>	<b>17,618.0</b>	<b>213.1</b>	<b>210.0</b>	<b>216.3</b>
52	SAN JOAQUIN	149,117	327.7	219.7	195.9	243.5
53	ALAMEDA	332,636	819.3	246.3	229.4	263.2
54	FRESNO	208,780	579.7	277.6	255.0	300.2
55	SACRAMENTO	305,674	870.3	284.7	265.8	303.6
56	LOS ANGELES	2,231,734	6,822.0	305.7	298.4	312.9
57	KERN	198,153	619.3	312.6	287.9	337.2
58	SAN FRANCISCO	204,477	1,768.7	865.0	824.7	905.3

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

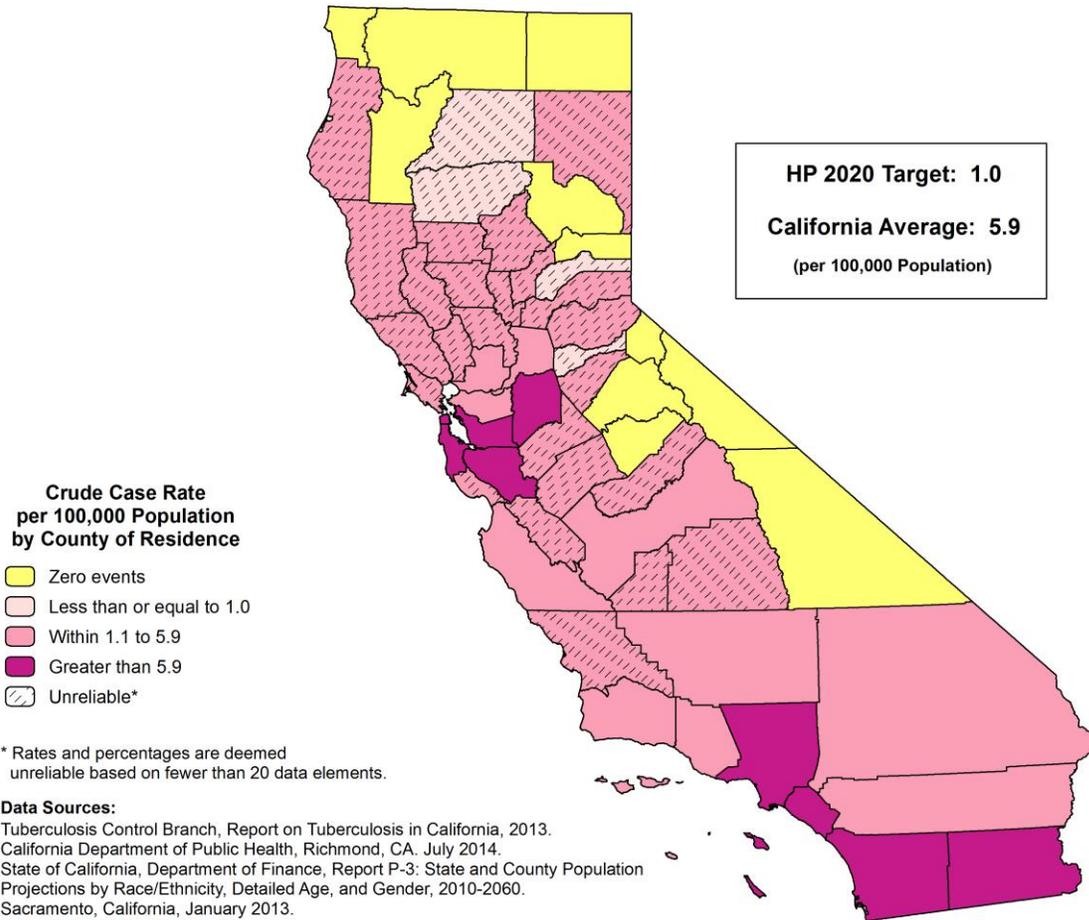
\* Rates are deemed unreliable based on fewer than 20 data elements.

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

Sources: California Department of Public Health, STD Control Branch, Data Request, September, 2014.

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, January 2013.

## REPORTED INCIDENCE OF TUBERCULOSIS, 2011-2013



The crude case rate of reported tuberculosis cases for California was 5.9 cases per 100,000 population or approximately one reported tuberculosis case for every 16,985.3 persons. This rate was based on a 2011 through 2013 three-year average reported number of cases equaling 2,227.0 and a population count of 37,826,160 as of July 1, 2012.

Among counties with reliable rates, the crude case rate ranged from 17.7 in Imperial County to 2.7 in Riverside County and San Bernardino County, a factor of 6.7 to 1.

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

The California crude case rate of reported tuberculosis cases for the 2008-2010 period

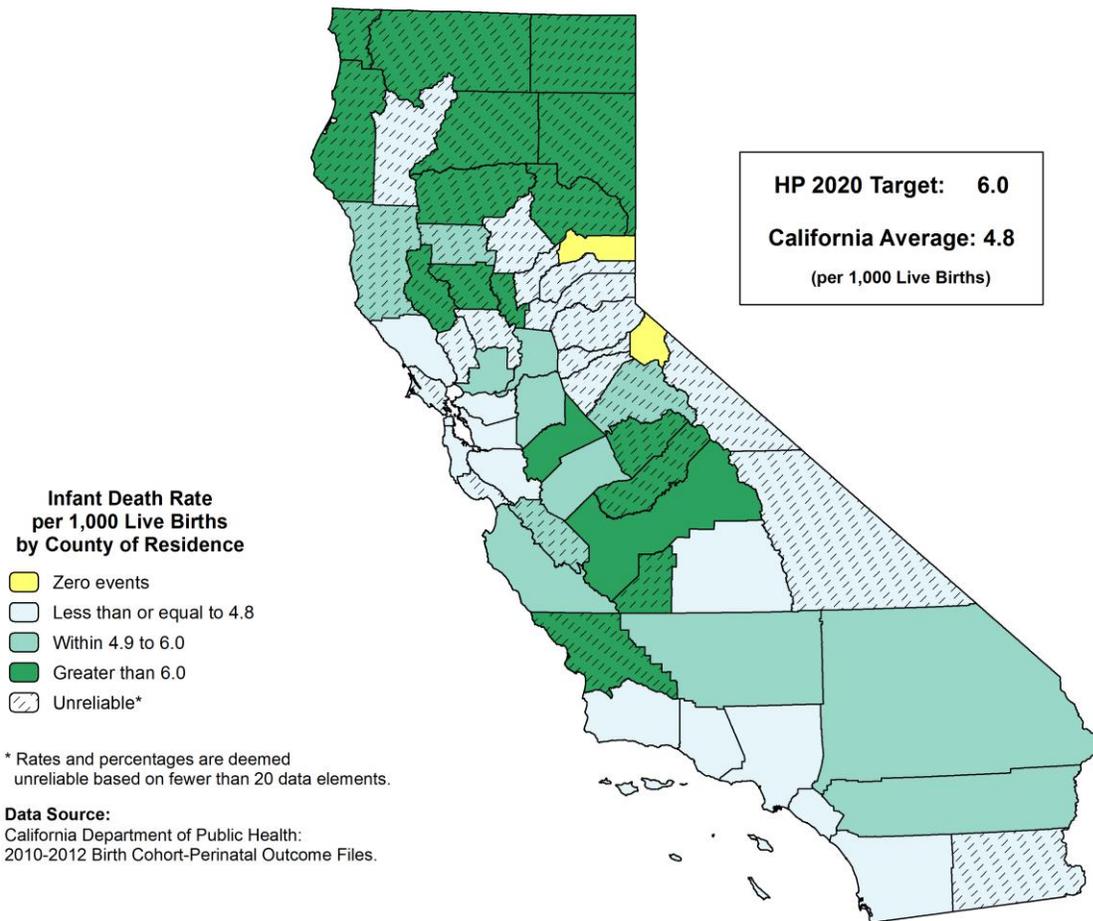
**TABLE 23  
REPORTED INCIDENCE OF TUBERCULOSIS  
RANKED BY THREE-YEAR AVERAGE CRUDE CASE RATE  
CALIFORNIA COUNTIES, 2011-2013**

RANK ORDER	COUNTY OF RESIDENCE	2012 POPULATION	2011-2013 CASES (AVERAGE)	CRUDE CASE RATE	95% CONFIDENCE LIMITS	
					LOWER	UPPER
1	TUOLUMNE	54,339	0.0	-	-	-
2	SISKIYOU	44,598	0.0	-	-	-
3	DEL NORTE	28,359	0.0	-	-	-
4	PLUMAS	19,523	0.0	-	-	-
5	INYO	18,637	0.0	-	-	-
6	MARIPOSA	17,817	0.0	-	-	-
7	MONO	14,258	0.0	-	-	-
8	TRINITY	13,470	0.0	-	-	-
9	MODOC	9,518	0.0	-	-	-
10	SIERRA	3,089	0.0	-	-	-
11	ALPINE	1,127	0.0	-	-	-
12	TEHAMA	63,623	0.3	0.5*	0.0	6.9
13	NEVADA	98,202	0.7	0.7*	0.0	5.1
14	AMADOR	36,899	0.3	0.9*	0.0	11.8
15	SHASTA	178,477	1.7	0.9*	0.1	3.7
<b>HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: IID-29</b>				<b>1.0</b>		
16	EL DORADO	180,599	2.0	1.1*	0.1	4.0
17	BUTTE	221,118	2.7	1.2*	0.2	3.7
18	CALAVERAS	45,045	0.7	1.5*	0.0	11.1
19	SAN LUIS OBISPO	271,021	4.3	1.6*	0.5	4.0
20	STANISLAUS	522,651	8.7	1.7*	0.7	3.2
21	PLACER	360,680	6.0	1.7*	0.6	3.6
22	MENDOCINO	88,566	1.7	1.9*	0.2	7.6
23	YOLO	204,314	4.0	2.0*	0.5	5.0
24	HUMBOLDT	134,923	2.7	2.0*	0.4	6.1
25	LASSEN	33,650	0.7	2.0*	0.0	14.8
26	SAN BENITO	56,527	1.3	2.4*	0.1	10.9
27	SONOMA	489,283	11.7	2.4*	1.2	4.2
28	LAKE	64,394	1.7	2.6*	0.2	10.4
29	RIVERSIDE	2,244,399	59.7	2.7	2.0	3.4
30	SAN BERNARDINO	2,065,016	56.0	2.7	2.0	3.5
31	SANTA CRUZ	267,569	7.3	2.7*	1.1	5.6
32	NAPA	138,577	4.0	2.9*	0.8	7.4
33	COLUSA	21,614	0.7	3.1*	0.0	23.0
34	TULARE	451,627	16.0	3.5*	2.0	5.8
35	YUBA	73,021	2.7	3.7*	0.7	11.3
36	KINGS	150,843	5.7	3.8*	1.3	8.4
37	VENTURA	834,109	32.0	3.8	2.6	5.4
38	KERN	855,522	34.0	4.0	2.8	5.6
39	FRESNO	946,823	39.7	4.2	3.0	5.7
40	MERCED	261,708	12.3	4.7*	2.5	8.2
41	GLENN	28,208	1.3	4.7*	0.3	21.8
42	MONTEREY	422,868	20.0	4.7	2.9	7.3
43	SOLANO	415,913	21.3	5.1	3.2	7.8
44	SACRAMENTO	1,439,874	74.0	5.1	4.0	6.5
45	MARIN	254,882	13.3	5.2*	2.8	8.9
46	SUTTER	95,351	5.0	5.2*	1.7	12.2
47	CONTRA COSTA	1,069,803	57.3	5.4	4.1	6.9
48	SANTA BARBARA	427,358	23.7	5.5	3.5	8.3
49	MADERA	151,790	9.0	5.9*	2.7	11.3
	<b>CALIFORNIA</b>	<b>37,826,160</b>	<b>2,227.0</b>	<b>5.9</b>	<b>5.6</b>	<b>6.1</b>
50	SAN JOAQUIN	699,003	43.7	6.2	4.5	8.4
51	ORANGE	3,071,933	196.0	6.4	5.5	7.3
52	LOS ANGELES	9,911,665	697.7	7.0	6.5	7.6
53	SAN DIEGO	3,147,220	234.3	7.4	6.5	8.4
54	SAN MATEO	736,362	57.0	7.7	5.9	10.0
55	ALAMEDA	1,540,790	131.3	8.5	7.1	10.0
56	SANTA CLARA	1,828,597	179.0	9.8	8.4	11.2
57	SAN FRANCISCO	820,349	110.3	13.4	10.9	16.0
58	IMPERIAL	178,659	31.7	17.7	12.1	25.1

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

Note: Counties were rank ordered first by increasing case rate (calculated to 15 decimal places), second by decreasing size of the population.  
Sources: Tuberculosis Control Branch, Report on Tuberculosis in California, 2013. California Department of Public Health, Richmond, CA. July 2014, Page 27.  
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, January 2013.

## INFANT MORTALITY, ALL RACE/ETHNIC GROUPS, 2010-2012



The California birth cohort infant death rate for all race/ethnic groups was 4.8 deaths per 1,000 live births, a risk of dying equivalent to approximately one infant death for every 210.4 births in the infant group. This rate was based on 2010 through 2012 three-year average numbers for all race/ethnic groups infant deaths equaling 2,401.7 and live births equaling 505,391.7.

Among counties with reliable rates, the birth cohort infant death rate for all race/ethnic groups ranged from 7.0 in Fresno County to 2.7 in San Mateo County, a factor of 2.6 to 1.

Twenty counties with reliable 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 birth cohort live births. An additional nineteen 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 2007-2009 period was 5.2.

**TABLE 24A  
 INFANT MORTALITY, ALL RACE/ETHNIC GROUPS  
 RANKED BY THREE-YEAR AVERAGE BIRTH COHORT INFANT DEATH RATE  
 CALIFORNIA COUNTIES, 2010-2012**

RANK ORDER	COUNTY OF RESIDENCE	THREE-YEAR AVERAGE		BIRTH COHORT INFANT DEATH RATE	95% CONFIDENCE LIMITS	
		LIVE BIRTHS	INFANT DEATHS		LOWER	UPPER
1	SIERRA	21.7	0.0	-	-	-
2	ALPINE	6.0	0.0	-	-	-
3	INYO	208.0	0.3	1.6 *	0.0	21.0
4	SAN MATEO	9,142.0	24.3	2.7	1.7	3.9
5	TRINITY	118.7	0.3	2.8 *	0.0	36.7
6	CALAVERAS	339.7	1.0	2.9 *	0.1	16.4
7	SAN FRANCISCO	8,895.3	27.7	3.1	2.1	4.5
8	MARIN	2,354.7	7.3	3.1 *	1.3	6.3
9	SANTA CLARA	23,966.3	74.7	3.1	2.4	3.9
10	EL DORADO	1,587.3	5.0	3.1 *	1.0	7.4
11	YOLO	2,406.7	8.7	3.6 *	1.6	6.9
12	AMADOR	275.7	1.0	3.6 *	0.1	20.2
13	NAPA	1,509.3	5.7	3.8 *	1.3	8.3
14	ORANGE	38,179.7	144.0	3.8	3.2	4.4
15	IMPERIAL	3,062.7	12.0	3.9 *	2.0	6.8
16	SANTA BARBARA	5,736.7	22.7	4.0	2.5	5.9
17	SANTA CRUZ	3,168.7	13.0	4.1 *	2.2	7.0
18	SAN DIEGO	44,297.0	185.7	4.2	3.6	4.8
19	PLACER	3,769.7	16.3	4.3 *	2.5	7.0
20	ALAMEDA	19,287.3	85.0	4.4	3.5	5.4
21	MONO	146.0	0.7	4.6 *	0.0	34.1
22	YUBA	1,239.3	5.7	4.6 *	1.6	10.2
23	VENTURA	10,816.0	49.7	4.6	3.4	6.1
24	SONOMA	5,229.7	24.3	4.7	3.0	6.9
25	NEVADA	788.0	3.7	4.7 *	1.2	12.4
26	LOS ANGELES	131,780.0	622.0	4.7	4.3	5.1
27	CONTRA COSTA	12,158.0	57.7	4.7	3.6	6.1
28	TULARE	8,042.3	38.7	4.8	3.4	6.6
29	BUTTE	2,414.3	11.7	4.8 *	2.5	8.5
	<b>CALIFORNIA</b>	<b>505,391.7</b>	<b>2,401.7</b>	<b>4.8</b>	<b>4.6</b>	<b>4.9</b>
30	MONTEREY	6,744.3	33.3	4.9	3.4	6.9
31	RIVERSIDE	30,536.3	151.3	5.0	4.2	5.7
32	GLENN	398.0	2.0	5.0 *	0.6	18.2
33	MENDOCINO	1,093.3	5.7	5.2 *	1.8	11.5
34	SACRAMENTO	19,895.0	107.7	5.4	4.4	6.4
35	SAN BENITO	736.0	4.0	5.4 *	1.5	13.9
36	MERCED	4,280.0	23.7	5.5	3.5	8.3
37	SOLANO	5,089.3	28.3	5.6	3.7	8.0
38	KERN	14,422.3	83.0	5.8	4.6	7.1
39	TUOLUMNE	459.0	2.7	5.8 *	1.0	18.0
40	SAN JOAQUIN	10,350.3	61.3	5.9	4.5	7.6
41	SAN BERNARDINO	30,881.3	186.0	6.0	5.2	6.9
	<b>HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: MICH-1.3</b>			<b>6.0</b>		
42	SUTTER	1,315.0	8.0	6.1 *	2.6	12.0
43	MADERA	2,365.3	14.7	6.2 *	3.4	10.3
44	SHASTA	2,090.3	13.0	6.2 *	3.3	10.6
45	STANISLAUS	7,712.0	48.0	6.2	4.6	8.3
46	COLUSA	318.0	2.0	6.3 *	0.8	22.7
47	SISKIYOU	469.0	3.0	6.4 *	1.3	18.7
48	SAN LUIS OBISPO	2,649.7	17.0	6.4 *	3.7	10.3
49	LAKE	726.7	4.7	6.4 *	2.0	15.4
50	KINGS	2,476.3	16.0	6.5 *	3.7	10.5
51	LASSEN	306.7	2.0	6.5 *	0.8	23.6
52	TEHAMA	754.3	5.0	6.6 *	2.2	15.5
53	MARIPOSA	146.0	1.0	6.8 *	0.2	38.2
54	FRESNO	16,131.3	113.3	7.0	5.7	8.3
55	HUMBOLDT	1,506.0	11.0	7.3 *	3.6	13.1
56	DEL NORTE	337.0	2.7	7.9 *	1.4	24.5
57	PLUMAS	162.0	1.3	8.2 *	0.5	37.9
58	MODOC	94.0	1.3	14.2 *	0.8	65.3

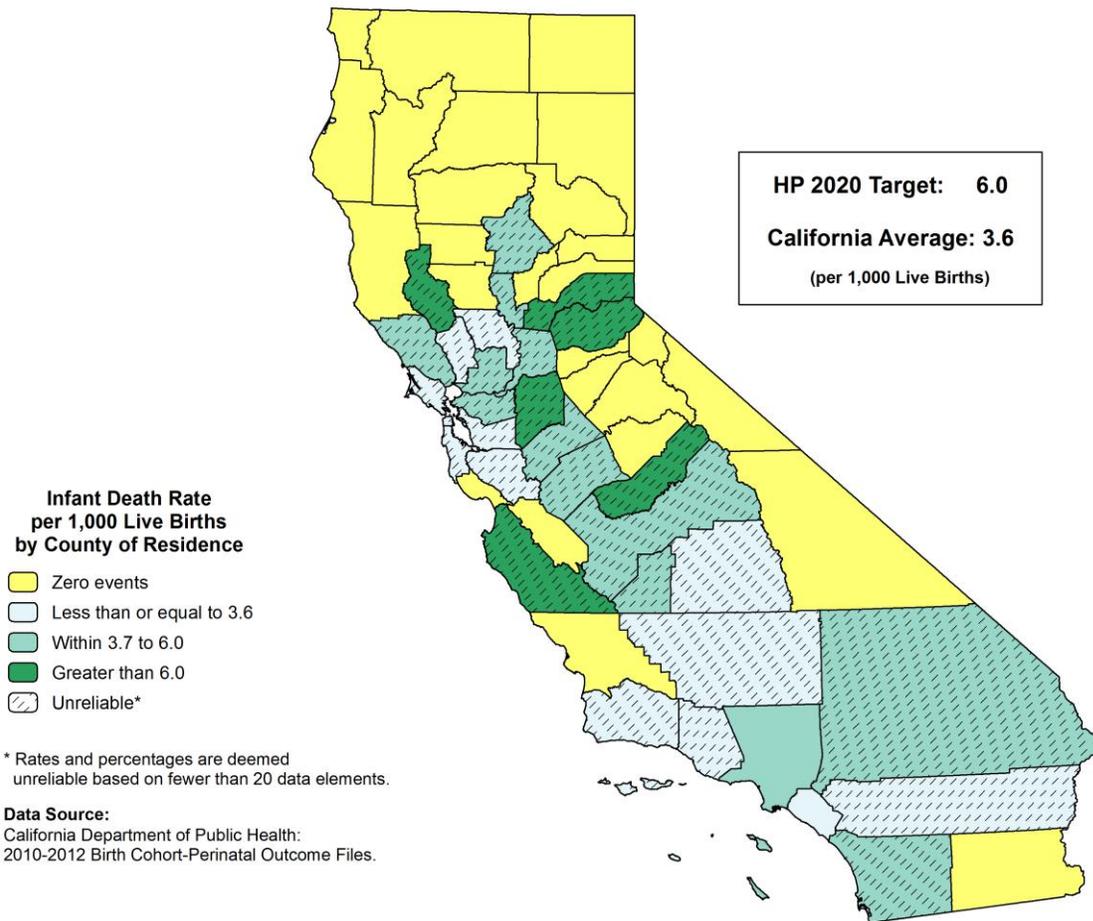
- Rates, percentages, and confidence limits are not calculated for zero events.

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

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

Source: California Department of Public Health: 2010-2012 Birth Cohort-Perinatal Outcome Files.

## ASIAN/PACIFIC ISLANDER INFANT MORTALITY, 2010-2012



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 277.1 births in the infant group. This rate was based on 2010 through 2012 three-year average numbers for Asian/Pacific Islanders' infant deaths equaling 237.7 and live births equaling 65,853.0.

Among counties with reliable rates, the birth cohort infant death rate for Asian/Pacific Islanders ranged from 3.7 in Los Angeles County to 3.4 in Orange County, a factor of 1.1 to 1.

Two counties with reliable infant death rates for Asian/Pacific Islanders 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 birth cohort live births. An additional twenty-four counties with unreliable rates and twenty-six counties with no infant deaths met the objective.

The California birth cohort infant death rate for Asian/Pacific Islanders for the 2007-2009 period was 4.5.

**TABLE 24B  
ASIAN/PACIFIC ISLANDER INFANT MORTALITY  
RANKED BY THREE-YEAR AVERAGE BIRTH COHORT INFANT DEATH RATE  
CALIFORNIA COUNTIES, 2010-2012**

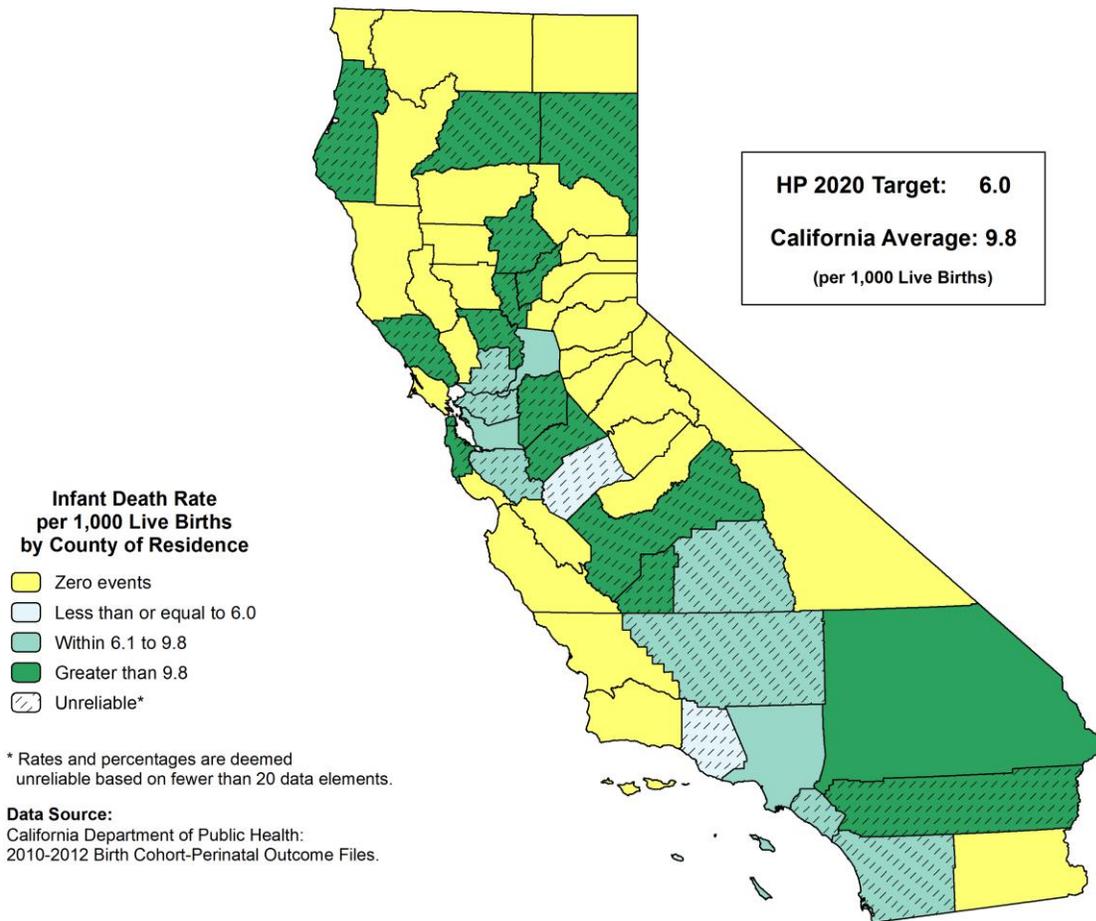
RANK ORDER	COUNTY OF RESIDENCE	THREE-YEAR AVERAGE		BIRTH COHORT INFANT DEATHRATE	95% CONFIDENCE LIMITS	
		LIVE BIRTHS	INFANT DEATHS		LOWER	UPPER
1	YUBA	108.0	0.0	-	-	-
2	SANTA CRUZ	98.7	0.0	-	-	-
3	SAN LUIS OBISPO	85.7	0.0	-	-	-
4	SHASTA	75.3	0.0	-	-	-
5	HUMBOLDT	52.3	0.0	-	-	-
6	IMPERIAL	25.7	0.0	-	-	-
7	SAN BENITO	17.0	0.0	-	-	-
8	DEL NORTE	16.7	0.0	-	-	-
9	MENDOCINO	16.3	0.0	-	-	-
10	NEVADA	13.7	0.0	-	-	-
11	SISKIYOU	10.7	0.0	-	-	-
12	TEHAMA	8.3	0.0	-	-	-
13	GLENN	8.0	0.0	-	-	-
14	LASSEN	7.7	0.0	-	-	-
15	TUOLUMNE	7.3	0.0	-	-	-
16	AMADOR	3.7	0.0	-	-	-
17	CALAVERAS	3.3	0.0	-	-	-
18	INYO	3.3	0.0	-	-	-
19	MONO	2.7	0.0	-	-	-
20	COLUSA	2.3	0.0	-	-	-
21	MODOC	2.0	0.0	-	-	-
22	TRINITY	1.7	0.0	-	-	-
23	MARIPOSA	1.3	0.0	-	-	-
24	PLUMAS	1.3	0.0	-	-	-
25	ALPINE	0.0	0.0	-	-	-
26	SIERRA	0.0	0.0	-	-	-
27	TULARE	242.7	0.3	1.4 *	0.0	18.0
28	SANTA BARBARA	201.3	0.3	1.7 *	0.0	21.6
29	KERN	503.7	1.0	2.0 *	0.1	11.1
30	SANTA CLARA	8,384.7	18.7	2.2 *	1.3	3.5
31	VENTURA	737.7	1.7	2.3 *	0.2	9.1
32	RIVERSIDE	1,699.0	4.3	2.6 *	0.7	6.3
33	SAN MATEO	2,555.3	6.7	2.6 *	1.0	5.5
34	SAN FRANCISCO	2,765.7	7.7	2.8 *	1.2	5.5
35	NAPA	106.3	0.3	3.1 *	0.0	41.0
36	MARIN	199.0	0.7	3.4 *	0.0	25.0
37	ALAMEDA	5,530.3	18.7	3.4 *	2.0	5.3
38	ORANGE	6,875.7	23.7	3.4	2.2	5.1
39	YOLO	279.0	1.0	3.6 *	0.1	20.0
	<b>CALIFORNIA</b>	<b>65,853.0</b>	<b>237.7</b>	<b>3.6</b>	<b>3.2</b>	<b>4.1</b>
40	LOS ANGELES	17,029.0	63.7	3.7	2.9	4.8
41	MERCED	345.7	1.3	3.9 *	0.2	17.8
42	SAN DIEGO	4,774.0	18.7	3.9 *	2.3	6.1
43	KINGS	82.7	0.3	4.0 *	0.0	52.7
44	SAN BERNARDINO	1,816.0	7.3	4.0 *	1.7	8.2
45	CONTRA COSTA	1,926.0	9.0	4.7 *	2.1	8.9
46	SOLANO	693.3	3.3	4.8 *	1.1	13.4
47	SUTTER	198.7	1.0	5.0 *	0.1	28.0
48	SACRAMENTO	3,449.0	17.7	5.1 *	3.0	8.1
49	FRESNO	1,777.0	9.7	5.4 *	2.6	10.1
50	BUTTE	175.3	1.0	5.7 *	0.1	31.8
51	SONOMA	231.0	1.3	5.8 *	0.3	26.6
52	STANISLAUS	450.3	2.7	5.9 *	1.1	18.3
	<b>HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: MICH-1.3</b>			<b>6.0</b>		
53	SAN JOAQUIN	1,574.7	9.7	6.1 *	2.9	11.4
54	PLACER	295.0	2.0	6.8 *	0.8	24.5
55	MONTEREY	269.7	2.3	8.7 *	1.3	28.7
56	EL DORADO	71.0	0.7	9.4 *	0.0	70.2
57	MADERA	33.3	0.3	10.0 *	0.0	130.7
58	LAKE	8.0	0.7	83.3 *	0.4	622.6

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

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

Note: Counties were rank ordered first by increasing birth cohort death rate (calculated to 15 decimal places), second by decreasing total number of live births.  
Source: California Department of Public Health: 2010-2012 Birth Cohort-Perinatal Outcome Files.

## BLACK INFANT MORTALITY, 2010-2012



The California birth cohort infant death rate for Blacks was 9.8 deaths per 1,000 live births, a risk of dying equivalent to approximately one infant death for every 101.8 births in the infant group. This rate was based on 2010 through 2012 three-year average numbers of Black infant deaths equaling 266.3 and live births equaling 27,119.7.

Among counties with reliable rates, the birth cohort infant death rate for Blacks ranged from 11.4 in San Bernardino County to 9.5 in Los Angeles County, a factor of 1.2 to 1.

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

The California birth cohort infant death rate for Blacks for the 2007-2009 period was 11.8.

**TABLE 24C  
BLACK INFANT MORTALITY  
RANKED BY THREE-YEAR AVERAGE BIRTH COHORT INFANT DEATH RATE  
CALIFORNIA COUNTIES, 2010-2012**

RANK ORDER	COUNTY OF RESIDENCE	THREE-YEAR AVERAGE		BIRTH COHORT INFANT DEATHRATE	95% CONFIDENCE LIMITS	
		LIVE BIRTHS	INFANT DEATHS		LOWER	UPPER
1	MONTEREY	76.7	0.0	-	-	-
2	SANTA BARBARA	41.0	0.0	-	-	-
3	MARIN	37.0	0.0	-	-	-
4	PLACER	33.0	0.0	-	-	-
5	MADERA	30.7	0.0	-	-	-
6	IMPERIAL	25.0	0.0	-	-	-
7	NAPA	16.3	0.0	-	-	-
8	SANTA CRUZ	14.7	0.0	-	-	-
9	SAN LUIS OBISPO	14.0	0.0	-	-	-
10	LAKE	10.7	0.0	-	-	-
11	EL DORADO	8.3	0.0	-	-	-
12	SISKIYOU	5.0	0.0	-	-	-
13	MENDOCINO	3.7	0.0	-	-	-
14	TEHAMA	3.3	0.0	-	-	-
15	NEVADA	2.3	0.0	-	-	-
16	PLUMAS	2.0	0.0	-	-	-
17	COLUSA	1.7	0.0	-	-	-
18	GLENN	1.3	0.0	-	-	-
19	TUOLUMNE	1.3	0.0	-	-	-
20	CALAVERAS	1.0	0.0	-	-	-
21	INYO	1.0	0.0	-	-	-
22	SAN BENITO	1.0	0.0	-	-	-
23	MARIPOSA	0.7	0.0	-	-	-
24	AMADOR	0.3	0.0	-	-	-
25	DEL NORTE	0.3	0.0	-	-	-
26	MONO	0.3	0.0	-	-	-
27	ALPINE	0.0	0.0	-	-	-
28	MODOC	0.0	0.0	-	-	-
29	SIERRA	0.0	0.0	-	-	-
30	TRINITY	0.0	0.0	-	-	-
31	VENTURA	117.3	0.3	2.8 *	0.0	37.1
32	MERCED	119.0	0.7	5.6 *	0.0	41.9
<b>HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: MICH-1.3</b>				<b>6.0</b>		
33	SANTA CLARA	494.0	3.0	6.1 *	1.3	17.7
34	ORANGE	437.7	2.7	6.1 *	1.1	18.9
35	SOLANO	651.3	5.0	7.7 *	2.5	17.9
36	SAN DIEGO	1,973.3	15.3	7.8 *	4.4	12.7
37	TULARE	84.7	0.7	7.9 *	0.0	58.8
38	KERN	824.7	7.0	8.5 *	3.4	17.5
39	CONTRA COSTA	1,063.3	9.7	9.1 *	4.3	16.9
40	LOS ANGELES	9,860.0	93.7	9.5	7.7	11.6
41	SACRAMENTO	2,122.7	20.7	9.7	6.0	14.9
42	ALAMEDA	2,103.7	20.7	9.8	6.1	15.1
<b>CALIFORNIA</b>		<b>27,119.7</b>	<b>266.3</b>	<b>9.8</b>	<b>8.6</b>	<b>11.0</b>
43	RIVERSIDE	1,607.0	16.0	10.0 *	5.7	16.2
44	KINGS	98.7	1.0	10.1 *	0.3	56.5
45	SONOMA	65.7	0.7	10.2 *	0.1	75.8
46	SAN FRANCISCO	436.3	4.7	10.7 *	3.3	25.7
47	SAN JOAQUIN	750.7	8.3	11.1 *	4.9	21.6
48	SAN BERNARDINO	2,691.0	30.7	11.4	7.7	16.2
49	SAN MATEO	116.3	1.3	11.5 *	0.6	52.8
50	YOLO	50.0	0.7	13.3 *	0.1	99.6
51	SUTTER	23.3	0.3	14.3 *	0.0	186.8
52	FRESNO	838.3	16.3	19.5 *	11.2	31.5
53	YUBA	31.3	0.7	21.3 *	0.1	159.0
54	STANISLAUS	162.7	3.7	22.5 *	5.7	60.0
55	HUMBOLDT	11.0	0.3	30.3 *	0.0	396.2
56	BUTTE	32.0	1.0	31.3 *	0.8	174.1
57	SHASTA	18.7	1.0	53.6 *	1.4	298.5
58	LASSEN	2.3	0.3	142.9 *	0.0	1867.8

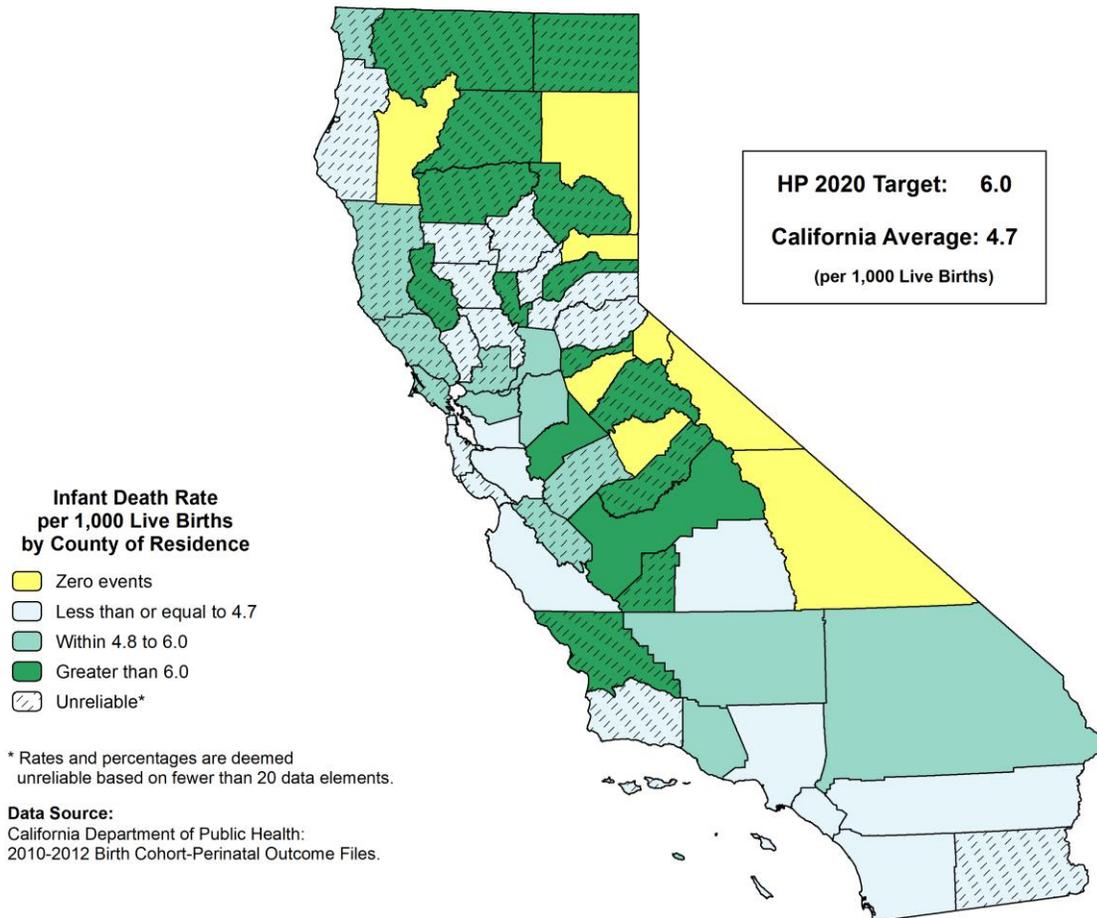
- Rates, percentages, and confidence limits are not calculated for zero events.

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

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

Source: California Department of Public Health: 2010-2012 Birth Cohort-Perinatal Outcome Files.

## HISPANIC INFANT MORTALITY, 2010-2012



The California birth cohort infant death rate for Hispanics was 4.7 deaths per 1,000 live births, a risk of dying equivalent to approximately one infant death for every 213.7 births in the infant group. This rate was based on 2010 through 2012 three-year average numbers of Hispanic infant deaths equaling 1,172.7 and live births equaling 250,561.7.

Among counties with reliable rates, the birth cohort infant death rate for Hispanics ranged from 6.6 in Stanislaus County to 3.4 in Santa Clara County, a factor of 1.9 to 1.

Fourteen counties with reliable infant death rates for Hispanics 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 birth cohort live births. An additional twenty-one 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 2007-2009 period was 5.0.

**TABLE 24D  
HISPANIC INFANT MORTALITY  
RANKED BY THREE-YEAR AVERAGE BIRTH COHORT INFANT DEATH RATE  
CALIFORNIA COUNTIES, 2010-2012**

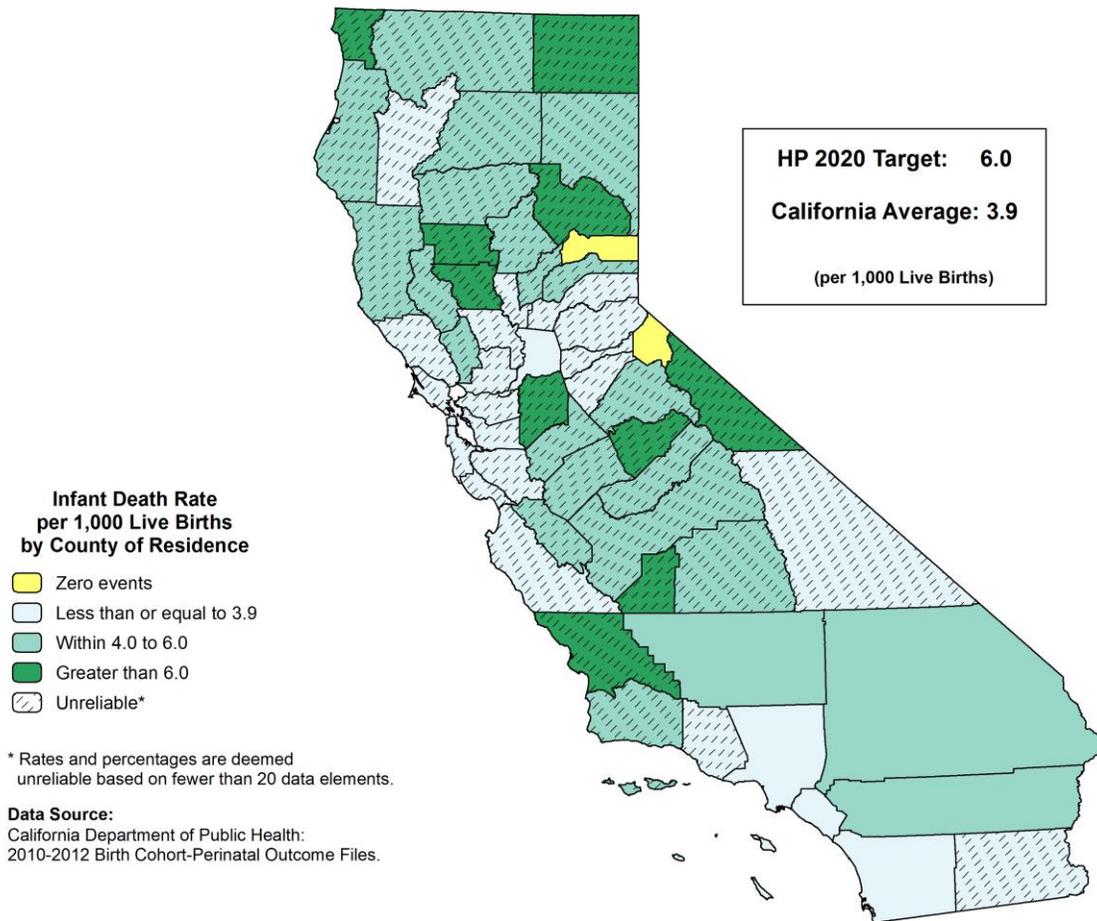
RANK ORDER	COUNTY OF RESIDENCE	THREE-YEAR AVERAGE		BIRTH COHORT INFANT DEATHRATE	95% CONFIDENCE LIMITS	
		LIVE BIRTHS	INFANT DEATHS		LOWER	UPPER
1	MONO	66.7	0.0	-	-	-
2	INYO	61.0	0.0	-	-	-
3	CALAVERAS	50.3	0.0	-	-	-
4	LASSEN	38.0	0.0	-	-	-
5	MARIPOSA	17.3	0.0	-	-	-
6	TRINITY	10.0	0.0	-	-	-
7	SIERRA	2.7	0.0	-	-	-
8	ALPINE	0.0	0.0	-	-	-
9	GLENN	211.3	0.3	1.6 *	0.0	20.6
10	EL DORADO	322.0	0.7	2.1 *	0.0	15.5
11	YUBA	372.3	1.0	2.7 *	0.1	15.0
12	SAN MATEO	2,314.0	6.3	2.7 *	1.0	5.8
13	NAPA	776.0	2.3	3.0 *	0.5	10.0
14	SANTA CLARA	8,310.7	28.7	3.4	2.3	5.0
15	IMPERIAL	2,752.3	9.7	3.5 *	1.7	6.5
16	SANTA BARBARA	3,793.3	13.7	3.6 *	2.0	6.1
17	SAN DIEGO	18,888.0	68.3	3.6	2.8	4.6
18	BUTTE	457.3	1.7	3.6 *	0.3	14.6
19	YOLO	970.3	3.7	3.8 *	1.0	10.1
20	ALAMEDA	5,591.7	21.3	3.8	2.4	5.8
21	ORANGE	18,343.3	78.0	4.3	3.4	5.3
22	PLACER	682.0	3.0	4.4 *	0.9	12.9
23	COLUSA	225.7	1.0	4.4 *	0.1	24.7
24	SAN FRANCISCO	1,719.0	7.7	4.5 *	1.9	8.9
25	TULARE	5,815.0	26.3	4.5	3.0	6.6
26	LOS ANGELES	78,445.3	356.0	4.5	4.1	5.0
27	RIVERSIDE	17,797.3	81.7	4.6	3.6	5.7
28	HUMBOLDT	216.3	1.0	4.6 *	0.1	25.8
29	SANTA CRUZ	1,770.0	8.3	4.7 *	2.1	9.2
30	MONTEREY	5,013.0	23.7	4.7	3.0	7.0
	<b>CALIFORNIA</b>	<b>250,561.7</b>	<b>1,172.7</b>	<b>4.7</b>	<b>4.4</b>	<b>4.9</b>
31	SAN JOAQUIN	5,077.7	24.3	4.8	3.1	7.1
32	SONOMA	2,149.7	10.3	4.8 *	2.3	8.8
33	CONTRA COSTA	4,189.7	20.3	4.9	3.0	7.5
34	VENTURA	6,393.0	31.3	4.9	3.3	6.9
35	SACRAMENTO	5,534.7	28.3	5.1	3.4	7.4
36	DEL NORTE	64.3	0.3	5.2 *	0.0	67.7
37	MARIN	688.7	3.7	5.3 *	1.3	14.2
38	SAN BERNARDINO	17,963.0	99.0	5.5	4.5	6.7
39	MERCED	2,763.0	15.3	5.5 *	3.1	9.1
40	SAN BENITO	532.7	3.0	5.6 *	1.2	16.5
41	SOLANO	1,683.0	9.7	5.7 *	2.7	10.7
42	KERN	8,708.7	51.7	5.9	4.4	7.8
43	MENDOCINO	390.3	2.3	6.0 *	0.9	19.9
	<b>HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: MICH-1.3</b>			<b>6.0</b>		
44	KINGS	1,463.0	9.0	6.2 *	2.8	11.7
45	SAN LUIS OBISPO	918.0	5.7	6.2 *	2.2	13.7
46	MADERA	1,736.0	11.0	6.3 *	3.2	11.3
47	FRESNO	9,625.3	62.0	6.4	4.9	8.3
48	STANISLAUS	4,118.7	27.3	6.6	4.4	9.6
49	AMADOR	48.7	0.3	6.8 *	0.0	89.6
50	LAKE	193.3	1.3	6.9 *	0.4	31.8
51	TEHAMA	266.3	2.0	7.5 *	0.9	27.1
52	SISKIYOU	82.7	0.7	8.1 *	0.0	60.3
53	SUTTER	520.0	4.3	8.3 *	2.4	20.6
54	NEVADA	119.0	1.0	8.4 *	0.2	46.8
55	TUOLUMNE	67.0	0.7	10.0 *	0.1	74.3
56	SHASTA	204.7	2.7	13.0 *	2.3	40.4
57	PLUMAS	14.7	0.3	22.7 *	0.0	297.2
58	MODOC	13.7	0.3	24.4 *	0.0	318.9

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

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

Note: Counties were rank ordered first by increasing birth cohort death rate (calculated to 15 decimal places), second by decreasing total number of live births.  
Source: California Department of Public Health: 2010-2012 Birth Cohort-Perinatal Outcome Files.

## WHITE INFANT MORTALITY, 2010-2012



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 257.6 births in the infant group. This rate was based on 2010 through 2012 three-year average numbers of White infant deaths equaling 541.3 and live births equaling 139,452.3.

Among counties with reliable rates, the birth cohort infant death rate for Whites ranged from 5.5 in Kern County to 2.7 in Orange County, a factor of 2.0 to 1.

Seven counties with reliable infant death rates for Whites 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 birth cohort live births. An additional thirty-nine 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 2007-2009 period was 4.5.

**TABLE 24E  
WHITE INFANT MORTALITY  
RANKED BY THREE-YEAR AVERAGE BIRTH COHORT INFANT DEATH RATE  
CALIFORNIA COUNTIES, 2010-2012**

RANK ORDER	COUNTY OF RESIDENCE	THREE-YEAR AVERAGE		BIRTH COHORT INFANT DEATH RATE	95% CONFIDENCE LIMITS	
		LIVE BIRTHS	INFANT DEATHS		LOWER	UPPER
1	SIERRA	18.3	0.0	-	-	-
2	ALPINE	2.7	0.0	-	-	-
3	SAN MATEO	2,594.3	3.3	1.3 *	0.3	3.6
4	SAN FRANCISCO	3,592.3	6.3	1.8 *	0.7	3.8
5	MARIN	1,343.7	3.0	2.2 *	0.5	6.5
6	SUTTER	530.7	1.3	2.5 *	0.1	11.6
7	SANTA CRUZ	1,187.7	3.0	2.5 *	0.5	7.4
8	YOLO	1,004.0	2.7	2.7 *	0.5	8.2
9	EL DORADO	1,118.7	3.0	2.7 *	0.6	7.8
10	ORANGE	11,375.7	30.7	2.7	1.8	3.8
11	SANTA CLARA	5,196.3	14.3	2.8 *	1.5	4.6
12	ALAMEDA	4,625.7	13.7	3.0 *	1.6	5.0
13	INYO	105.3	0.3	3.2 *	0.0	41.4
14	IMPERIAL	208.7	0.7	3.2 *	0.0	23.9
15	SAN DIEGO	15,402.0	51.0	3.3	2.5	4.4
16	AMADOR	200.7	0.7	3.3 *	0.0	24.8
17	PLACER	2,568.0	8.7	3.4 *	1.5	6.5
18	CONTRA COSTA	4,105.0	14.0	3.4 *	1.9	5.7
19	LOS ANGELES	22,914.7	80.3	3.5	2.8	4.4
20	TRINITY	93.3	0.3	3.6 *	0.0	46.7
21	SOLANO	1,649.0	6.0	3.6 *	1.3	7.9
22	SONOMA	2,444.3	9.3	3.8 *	1.8	7.2
23	CALAVERAS	260.3	1.0	3.8 *	0.1	21.4
24	MONTEREY	1,214.7	4.7	3.8 *	1.2	9.2
25	VENTURA	3,319.7	13.0	3.9 *	2.1	6.7
26	SACRAMENTO	7,641.0	30.0	3.9	2.6	5.6
	<b>CALIFORNIA</b>	<b>139,452.3</b>	<b>541.3</b>	<b>3.9</b>	<b>3.6</b>	<b>4.2</b>
27	MENDOCINO	558.7	2.3	4.2 *	0.6	13.9
28	SHASTA	1,644.0	7.0	4.3 *	1.7	8.8
29	NEVADA	608.7	2.7	4.4 *	0.8	13.6
30	LAKE	451.7	2.0	4.4 *	0.5	16.0
31	TEHAMA	440.0	2.0	4.5 *	0.6	16.4
32	STANISLAUS	2,647.0	12.3	4.7 *	2.4	8.1
33	NAPA	561.3	2.7	4.8 *	0.9	14.7
34	BUTTE	1,591.3	7.7	4.8 *	2.0	9.6
35	RIVERSIDE	8,251.0	40.0	4.8	3.5	6.6
36	SANTA BARBARA	1,542.3	7.7	5.0 *	2.1	9.9
37	YUBA	667.7	3.3	5.0 *	1.1	13.9
38	TULARE	1,714.3	8.7	5.1 *	2.3	9.7
39	MERCED	971.0	5.0	5.1 *	1.7	12.0
40	SISKIYOU	317.0	1.7	5.3 *	0.5	21.1
41	SAN BERNARDINO	7,566.0	41.0	5.4	3.9	7.4
42	MADERA	488.3	2.7	5.5 *	1.0	16.9
43	KERN	4,022.7	22.0	5.5	3.4	8.3
44	LASSEN	237.0	1.3	5.6 *	0.3	25.9
45	TUOLUMNE	355.0	2.0	5.6 *	0.7	20.4
46	FRESNO	3,337.0	19.0	5.7 *	3.4	8.9
47	SAN BENITO	169.7	1.0	5.9 *	0.1	32.8
48	HUMBOLDT	1,006.0	6.0	6.0 *	2.2	13.0
	<b>HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: MICH-1.3</b>			<b>6.0</b>		
49	SAN JOAQUIN	2,510.0	16.7	6.6 *	3.8	10.7
50	KINGS	730.7	5.0	6.8 *	2.2	16.0
51	SAN LUIS OBISPO	1,522.7	10.7	7.0 *	3.5	12.6
52	PLUMAS	132.0	1.0	7.6 *	0.2	42.2
53	GLENN	166.0	1.3	8.0 *	0.4	37.0
54	MARIPOSA	114.7	1.0	8.7 *	0.2	48.6
55	DEL NORTE	191.0	1.7	8.7 *	0.8	35.0
56	MONO	71.0	0.7	9.4 *	0.0	70.2
57	COLUSA	77.7	1.0	12.9 *	0.3	71.7
58	MODOC	72.3	1.0	13.8 *	0.4	77.0

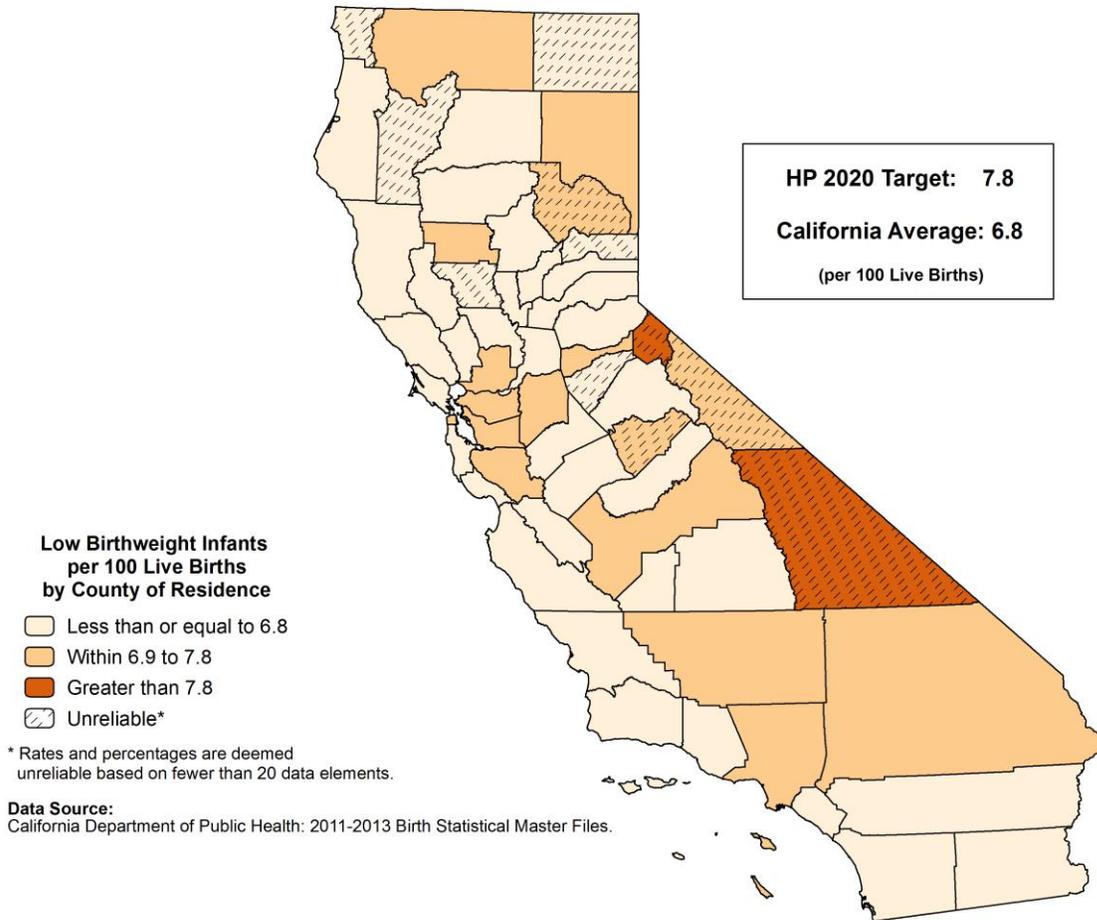
- Rates, percentages, and confidence limits are not calculated for zero events.

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

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

Source: California Department of Public Health: 2010-2012 Birth Cohort-Perinatal Outcome Files.

## LOW BIRTHWEIGHT INFANTS, 2011-2013



The percentage of low birthweight infants for California was 6.8 per 100 live births, or about one for every 14.8 live births. The 6.8 percentage was based on a 2011 through 2013 three-year average number of low birthweight infants equaling 33,846.0 and live births of 500,041.7.

Among counties with reliable percentages, the percent of low birthweight infants ranged from 7.8 in Fresno County to 5.1 in Tuolumne County, a factor of 1.5 to 1.

Forty-seven 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 nine counties with unreliable percentages met the objective.

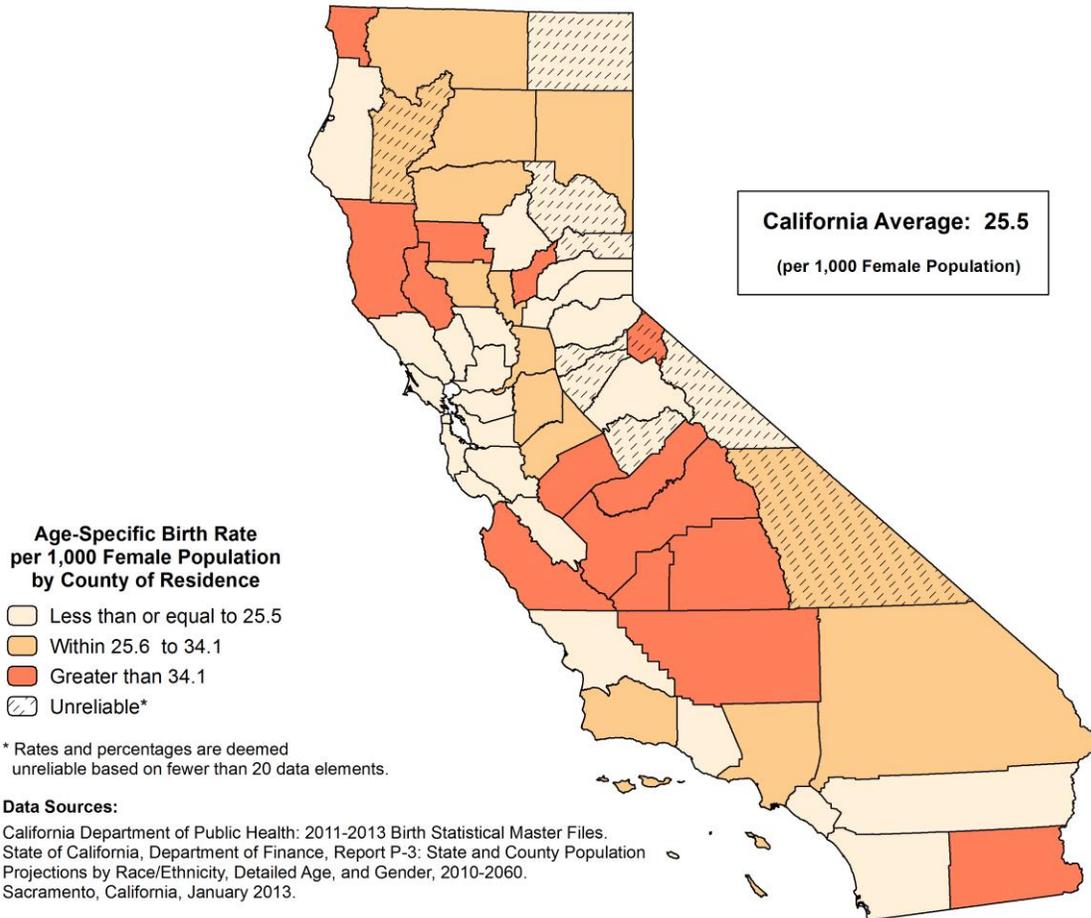
The California percentage of low birthweight infants for the 2008-2010 period was 6.8 per 100 live births.

**TABLE 25  
LOW BIRTHWEIGHT INFANTS  
RANKED BY THREE-YEAR AVERAGE LOW BIRTHWEIGHT PERCENTAGE  
CALIFORNIA COUNTIES, 2011-2013**

RANK ORDER	COUNTY OF RESIDENCE	2011-2013 LIVE BIRTHS (AVERAGE)			95% CONFIDENCE LIMITS	
		LIVE BIRTHS	LOW BIRTHWEIGHT		LOWER	UPPER
			NUMBER	PERCENT		
1	SIERRA	18.7	0.7	3.6*	0.0	26.7
2	CALAVERAS	336.7	15.3	4.6*	2.6	7.5
3	DEL NORTE	318.0	15.3	4.8*	2.7	7.9
4	TUOLUMNE	454.3	23.0	5.1	3.2	7.6
5	HUMBOLDT	1,496.0	78.3	5.2	4.1	6.5
6	IMPERIAL	3,060.7	161.3	5.3	4.5	6.1
7	SANTA CRUZ	3,061.0	171.3	5.6	4.8	6.4
8	SONOMA	5,092.0	285.3	5.6	5.0	6.3
9	PLACER	3,721.0	213.7	5.7	5.0	6.5
10	TRINITY	116.0	6.7	5.7*	2.2	12.0
11	BUTTE	2,401.0	138.0	5.7	4.8	6.7
12	MONTEREY	6,670.7	388.7	5.8	5.2	6.4
13	TEHAMA	749.3	44.0	5.9	4.3	7.9
14	NEVADA	795.7	47.0	5.9	4.3	7.9
15	SUTTER	1,289.7	76.7	5.9	4.7	7.4
16	YUBA	1,231.7	73.3	6.0	4.7	7.5
17	MENDOCINO	1,075.7	64.3	6.0	4.6	7.6
18	YOLO	2,427.3	145.3	6.0	5.0	7.0
19	SAN LUIS OBISPO	2,620.7	158.0	6.0	5.1	7.0
20	MARIN	2,337.0	141.3	6.0	5.1	7.0
21	EL DORADO	1,558.3	94.3	6.1	4.9	7.4
22	COLUSA	309.7	19.0	6.1*	3.7	9.6
23	NAPA	1,484.0	91.7	6.2	5.0	7.6
24	SANTA BARBARA	5,713.3	353.3	6.2	5.5	6.8
25	STANISLAUS	7,634.0	476.3	6.2	5.7	6.8
26	MADERA	2,324.3	145.3	6.3	5.2	7.3
27	TULARE	7,872.3	495.7	6.3	5.7	6.9
28	VENTURA	10,579.0	666.7	6.3	5.8	6.8
29	SHASTA	2,090.3	132.0	6.3	5.2	7.4
30	KINGS	2,438.7	154.3	6.3	5.3	7.3
31	ORANGE	37,847.3	2,427.0	6.4	6.2	6.7
32	SAN DIEGO	43,879.3	2,839.3	6.5	6.2	6.7
33	SAN BENITO	741.3	48.0	6.5	4.8	8.6
34	RIVERSIDE	30,285.3	1,975.3	6.5	6.2	6.8
35	SAN MATEO	9,016.3	595.7	6.6	6.1	7.1
36	MODOC	75.3	5.0	6.6*	2.2	15.5
37	MERCED	4,251.0	283.3	6.7	5.9	7.4
38	LAKE	737.3	49.3	6.7	5.0	8.8
39	SACRAMENTO	19,655.0	1,320.0	6.7	6.4	7.1
	<b>CALIFORNIA</b>	<b>500,041.7</b>	<b>33,846.0</b>	<b>6.8</b>	<b>6.7</b>	<b>6.8</b>
40	CONTRA COSTA	12,087.7	830.7	6.9	6.4	7.3
41	SANTA CLARA	23,749.0	1,652.0	7.0	6.6	7.3
42	SOLANO	5,158.0	361.0	7.0	6.3	7.7
43	MARIPOSA	142.3	10.0	7.0*	3.4	12.9
44	LOS ANGELES	130,174.3	9,155.3	7.0	6.9	7.2
45	SAN FRANCISCO	8,896.3	631.0	7.1	6.5	7.6
46	KERN	14,326.0	1,018.0	7.1	6.7	7.5
47	SAN JOAQUIN	10,085.3	718.3	7.1	6.6	7.6
48	GLENN	386.0	28.0	7.3	4.8	10.5
49	SAN BERNARDINO	30,487.7	2,217.7	7.3	7.0	7.6
50	MONO	145.7	10.7	7.3*	3.6	13.2
51	SISKIYOU	472.0	35.3	7.5	5.2	10.4
52	PLUMAS	155.7	11.7	7.5*	3.8	13.2
53	LASSEN	297.3	22.3	7.5	4.7	11.3
54	ALAMEDA	19,266.0	1,449.0	7.5	7.1	7.9
55	AMADOR	271.7	20.7	7.6	4.7	11.7
56	FRESNO	15,948.3	1,236.0	7.8	7.3	8.2
	<b>HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: MICH-8.1</b>			<b>7.8</b>		
57	INYO	220.7	18.0	8.2*	4.8	12.9
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 low birthweight percentage (calculated to 15 decimal places), second by decreasing size of the total number of live births.  
 Source: California Department of Public Health: 2011-2013 Birth Statistical Master Files.

## BIRTHS TO ADOLESCENT MOTHERS, 15 TO 19 YEARS OLD, 2011-2013



The age-specific birth rate to adolescent mothers, aged 15 to 19 years old, in California was 25.5 per 1,000 female population, aged 15 to 19 years old, or approximately one birth for every 39.3 adolescent females in this age group. This rate was based on a 2011 through 2013 three-year average number of births by females, aged 15 to 19 years old, of 34,582.7 and a female population count, aged 15 to 19 years old, of 1,358,529 as of July 1, 2012.

Among counties with reliable rates, the age-specific birth rate ranged from 49.0 in Kern County to 8.1 in Marin County, a factor of 6.1 to 1.

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

The California age-specific birth rate to adolescent mothers, aged 15 to 19 years old, for the 2008-2010 period was 35.2 per 1,000 female population in this age group.

**TABLE 26  
BIRTHS TO ADOLESCENT MOTHERS, 15 TO 19 YEARS OLD  
RANKED BY THREE-YEAR AVERAGE AGE-SPECIFIC BIRTH RATE  
CALIFORNIA COUNTIES, 2011-2013**

RANK ORDER	COUNTY OF RESIDENCE	2012 FEMALE POPULATION 15-19 YRS OLD	2011-2013 LIVE BIRTHS (AVERAGE)	AGE-SPECIFIC BIRTHRATE	95% CONFIDENCE LIMITS	
					LOWER	UPPER
<b>HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE:</b>				<b>NONE</b>		
1	MARIN	6,955	56.0	8.1	6.1	10.5
2	SIERRA	77	0.7	8.7 *	0.0	64.8
3	PLACER	13,109	131.3	10.0	8.3	11.7
4	SAN FRANCISCO	17,047	188.0	11.0	9.5	12.6
5	EL DORADO	6,407	71.7	11.2	8.7	14.1
6	CALAVERAS	1,429	18.7	13.1 *	7.8	20.5
7	SAN MATEO	21,812	291.3	13.4	11.8	14.9
8	YOLO	10,007	138.7	13.9	11.6	16.2
9	SAN LUIS OBISPO	10,311	145.7	14.1	11.8	16.4
10	NEVADA	2,989	42.3	14.2	10.2	19.1
11	MODOC	298	4.3	14.5 *	4.2	36.0
12	CONTRA COSTA	37,934	555.3	14.6	13.4	15.9
13	SONOMA	16,037	257.7	16.1	14.1	18.0
14	SANTA CLARA	56,984	929.3	16.3	15.3	17.4
15	PLUMAS	521	8.7	16.6 *	7.5	32.0
16	ALAMEDA	46,887	797.7	17.0	15.8	18.2
17	ORANGE	108,738	2,025.3	18.6	17.8	19.4
18	TUOLUMNE	1,466	28.0	19.1	12.7	27.6
19	NAPA	4,682	94.0	20.1	16.2	24.6
20	SANTA CRUZ	10,731	217.0	20.2	17.5	22.9
21	AMADOR	950	19.7	20.7 *	12.6	32.1
22	BUTTE	8,386	183.7	21.9	18.7	25.1
23	SAN BENITO	2,392	52.7	22.0	16.5	28.8
24	SOLANO	14,482	327.0	22.6	20.1	25.0
25	SAN DIEGO	106,550	2,503.3	23.5	22.6	24.4
26	HUMBOLDT	4,186	98.7	23.6	19.2	28.7
27	VENTURA	30,896	749.7	24.3	22.5	26.0
28	MARIPOSA	554	14.0	25.3 *	13.8	42.4
29	MONO	421	10.7	25.4 *	12.5	45.8
30	RIVERSIDE	94,310	2,407.0	25.5	24.5	26.5
	<b>CALIFORNIA</b>	<b>1,358,529</b>	<b>34,582.7</b>	<b>25.5</b>	<b>25.2</b>	<b>25.7</b>
31	SACRAMENTO	50,480	1,290.7	25.6	24.2	27.0
32	SUTTER	3,462	88.7	25.6	20.6	31.5
33	LOS ANGELES	351,929	9,188.3	26.1	25.6	26.6
34	SANTA BARBARA	18,267	486.3	26.6	24.3	29.0
35	SHASTA	5,666	160.3	28.3	23.9	32.7
36	TRINITY	404	12.0	29.7 *	15.3	51.8
37	SAN JOAQUIN	28,206	849.3	30.1	28.1	32.1
38	SAN BERNARDINO	87,798	2,791.0	31.8	30.6	33.0
39	TEHAMA	2,289	73.0	31.9	25.0	40.1
40	LASSEN	897	28.7	32.0	21.4	46.0
41	COLUSA	813	26.0	32.0	20.9	46.8
42	STANISLAUS	20,457	661.3	32.3	29.9	34.8
43	SISKIYOU	1,192	39.3	33.0	23.5	45.1
44	INYO	578	19.7	34.0 *	20.7	52.8
45	YUBA	2,694	92.0	34.2	27.5	41.9
46	MENDOCINO	2,620	90.0	34.4	27.6	42.2
47	LAKE	1,925	70.0	36.4	28.3	45.9
48	GLENN	1,049	39.3	37.5	26.7	51.2
49	MERCED	11,921	452.7	38.0	34.5	41.5
50	MONTEREY	15,831	620.3	39.2	36.1	42.3
51	ALPINE	34	1.3	39.3 *	2.2	180.8
52	FRESNO	39,859	1,653.7	41.5	39.5	43.5
53	DEL NORTE	841	36.3	43.2	30.3	59.7
54	MADERA	5,692	256.3	45.0	39.5	50.5
55	KINGS	5,225	240.0	45.9	40.1	51.7
56	IMPERIAL	7,275	338.0	46.5	41.5	51.4
57	TULARE	19,231	928.3	48.3	45.2	51.4
58	KERN	34,346	1,681.7	49.0	46.6	51.3

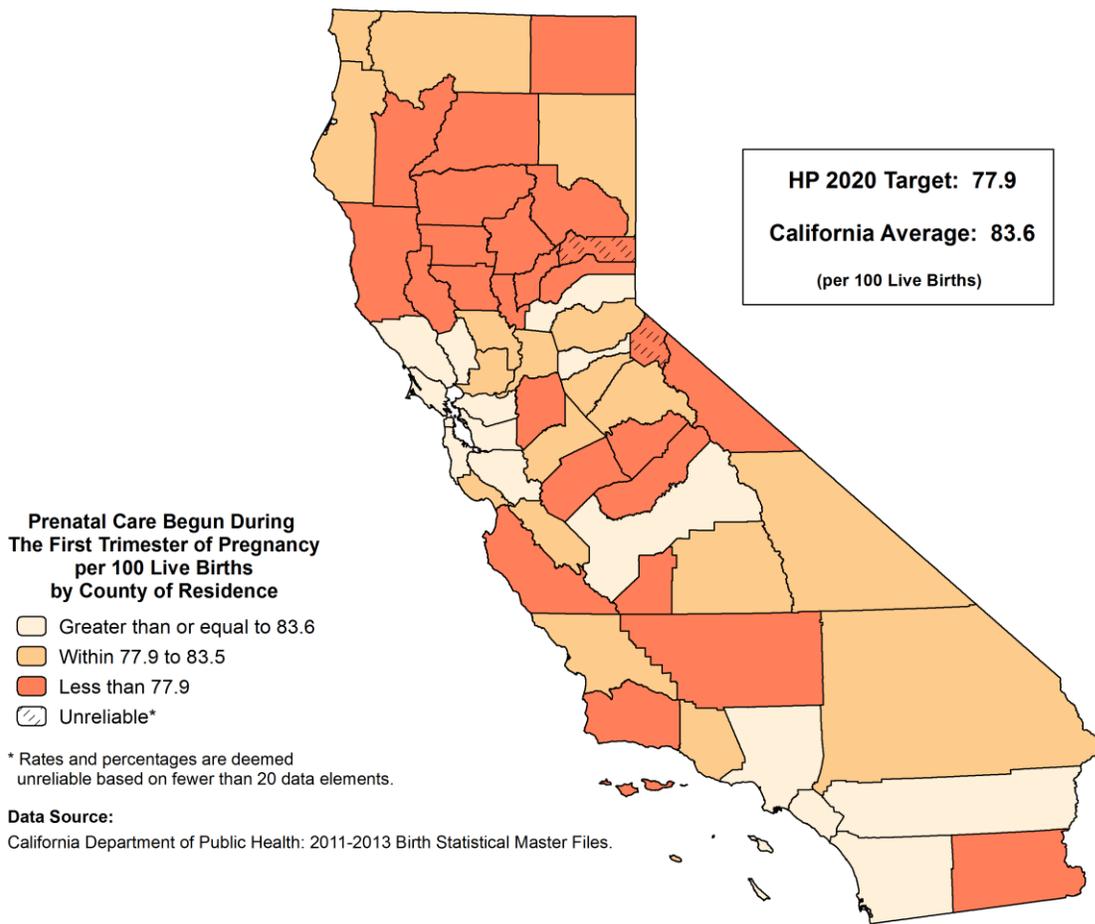
\* Rates are deemed unreliable based on fewer than 20 data elements.

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

Sources: California Department of Public Health: 2011-2013 Birth Statistical Master Files.

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, January 2013.

## PRENATAL CARE BEGUN DURING THE FIRST TRIMESTER OF PREGNANCY, 2011-2013



The percentage of births to mothers with prenatal care begun during the first trimester of pregnancy for California was 83.6 per 100 live births. The 83.6 percentage was based on a 2011 through 2013 three-year average number of births to mothers with prenatal care begun during the first trimester of pregnancy equaling 409,642.3 and a live births total of 489,738.3.

Among counties with reliable percentages, the percent of births to mothers with prenatal care begun during the first trimester of pregnancy ranged from 93.4 in Marin County to 53.4 in Imperial County, a factor of 1.7 to 1.

Thirty-three counties with a reliable percentage and California as a whole met the Healthy People 2020 National Objective MICH-10.1 of achieving the percentage of mothers with prenatal care begun during the first trimester of pregnancy to at least 77.9 percent of live births.

The California percentage of births to mothers with prenatal care begun during the first trimester of pregnancy for the 2008-2010 period was 82.9 per 100 live births.

**TABLE 27A  
 PRENATAL CARE BEGUN DURING THE FIRST TRIMESTER OF PREGNANCY  
 RANKED BY PERCENTAGE OF THREE-YEAR AVERAGE FIRST TRIMESTER CARE  
 CALIFORNIA COUNTIES, 2011-2013**

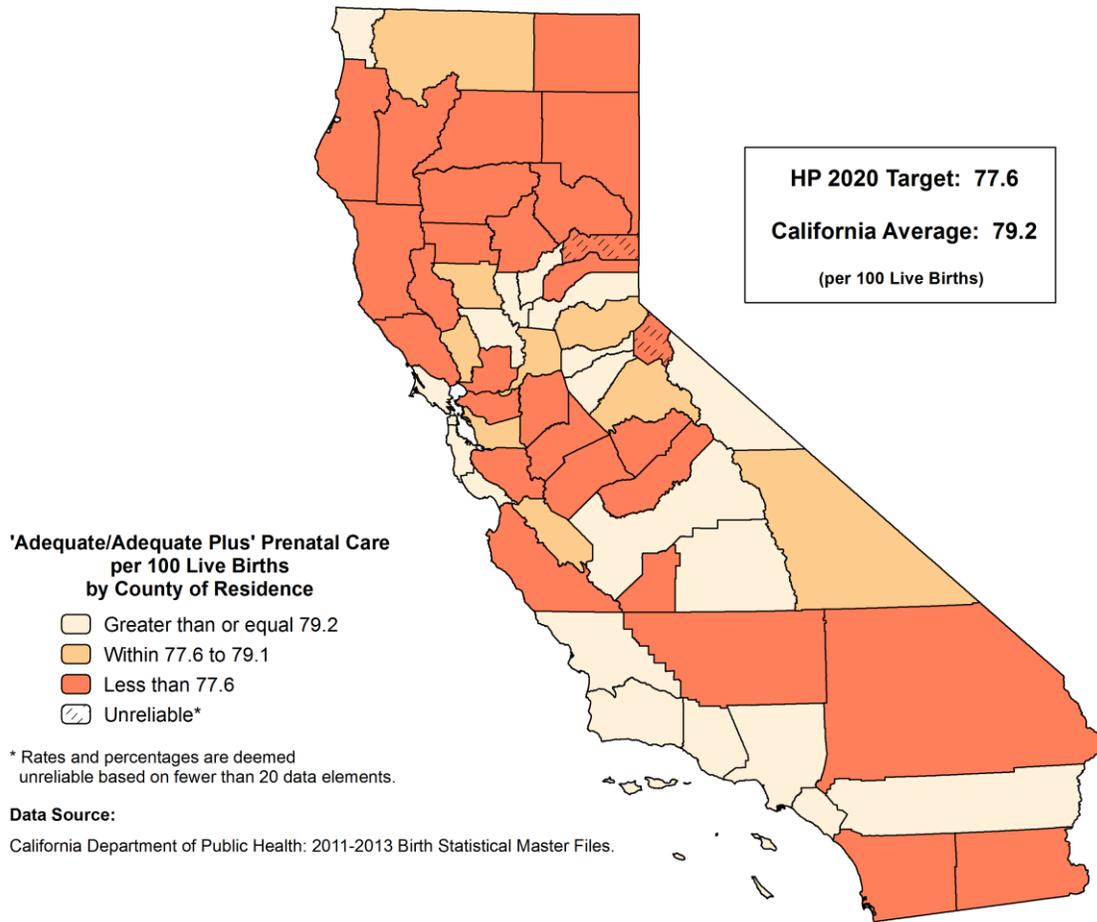
RANK ORDER	COUNTY OF RESIDENCE	2011-2013 LIVE BIRTHS (AVERAGE)			95% CONFIDENCE LIMITS	
		TOTAL NUMBER	FIRST TRIMESTER CARE		LOWER	UPPER
			NUMBER	PERCENT		
1	MARIN	2,320.3	2,167.7	93.4	89.5	97.4
2	SAN MATEO	8,999.3	8,123.7	90.3	88.3	92.2
3	ALAMEDA	18,833.0	16,908.0	89.8	88.4	91.1
4	ORANGE	37,362.0	33,493.0	89.6	88.7	90.6
5	SAN FRANCISCO	8,846.3	7,866.7	88.9	87.0	90.9
6	FRESNO	15,295.0	13,459.0	88.0	86.5	89.5
7	AMADOR	271.0	236.7	87.3	76.2	98.5
8	NAPA	1,462.7	1,266.7	86.6	81.8	91.4
9	SANTA CLARA	23,634.3	20,187.0	85.4	84.2	86.6
10	CONTRA COSTA	12,008.7	10,237.0	85.2	83.6	86.9
11	LOS ANGELES	124,817.3	106,186.3	85.1	84.6	85.6
12	RIVERSIDE	30,112.0	25,447.3	84.5	83.5	85.5
13	PLACER	3,710.3	3,129.7	84.4	81.4	87.3
14	SONOMA	5,086.0	4,289.3	84.3	81.8	86.9
15	SAN DIEGO	43,845.3	36,858.3	84.1	83.2	84.9
	<b>CALIFORNIA</b>	<b>489,738.3</b>	<b>409,642.3</b>	<b>83.6</b>	<b>83.4</b>	<b>83.9</b>
16	SAN BERNARDINO	30,024.7	25,031.3	83.4	82.3	84.4
17	SAN BENITO	736.0	609.3	82.8	76.2	89.4
18	YOLO	2,391.3	1,978.3	82.7	79.1	86.4
19	SANTA CRUZ	3,020.3	2,494.0	82.6	79.3	85.8
20	VENTURA	10,560.7	8,699.0	82.4	80.6	84.1
21	SACRAMENTO	19,130.3	15,616.0	81.6	80.3	82.9
22	TULARE	7,781.7	6,341.7	81.5	79.5	83.5
23	SAN LUIS OBISPO	2,607.3	2,088.3	80.1	76.7	83.5
24	CALAVERAS	335.0	268.0	80.0	70.4	89.6
25	TUOLUMNE	451.3	358.7	79.5	71.2	87.7
26	EL DORADO	1,550.0	1,230.0	79.4	74.9	83.8
27	SISKIYOU	467.0	368.7	78.9	70.9	87.0
28	DEL NORTE	315.0	248.0	78.7	68.9	88.5
29	SOLANO	5,095.3	4,009.3	78.7	76.3	81.1
30	STANISLAUS	7,517.0	5,901.0	78.5	76.5	80.5
31	HUMBOLDT	1,466.0	1,150.3	78.5	73.9	83.0
32	LASSEN	287.3	225.3	78.4	68.2	88.7
33	INYO	214.0	167.0	78.0	66.2	89.9
	<b>HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: MICH-10.1</b>			<b>77.9</b>		
34	SAN JOAQUIN	9,970.0	7,657.7	76.8	75.1	78.5
35	MONO	143.7	110.3	76.8	62.5	91.1
36	KERN	13,724.0	10,454.3	76.2	74.7	77.6
37	SANTA BARBARA	5,693.3	4,329.3	76.0	73.8	78.3
38	NEVADA	786.0	586.3	74.6	68.6	80.6
39	BUTTE	2,377.3	1,772.7	74.6	71.1	78.0
40	SIERRA	17.7	13.0	73.6*	39.2	100.0
41	PLUMAS	148.7	109.3	73.5	59.8	87.3
42	MADERA	2,275.3	1,672.3	73.5	70.0	77.0
43	KINGS	2,415.7	1,769.0	73.2	69.8	76.6
44	COLUSA	307.7	224.0	72.8	63.3	82.3
45	MONTEREY	6,513.7	4,739.3	72.8	70.7	74.8
46	YUBA	1,226.0	874.3	71.3	66.6	76.0
47	SUTTER	1,287.0	916.0	71.2	66.6	75.8
48	TEHAMA	745.7	528.3	70.9	64.8	76.9
49	MARIPOSA	136.3	95.7	70.2	56.8	85.7
50	LAKE	724.7	505.0	69.7	63.6	75.8
51	MENDOCINO	1,059.3	725.0	68.4	63.5	73.4
52	GLENN	383.3	259.7	67.7	59.5	76.0
53	SHASTA	2,058.3	1,391.7	67.6	64.1	71.2
54	MODOC	73.3	49.0	66.8	49.4	88.3
55	MERCED	4,144.0	2,628.7	63.4	61.0	65.9
56	TRINITY	112.7	62.3	55.3	42.4	70.9
57	IMPERIAL	2,854.7	1,525.3	53.4	50.8	56.1
58	ALPINE	6.0	3.0	50.0*	10.3	100.0

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

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

Source: California Department of Public Health: 2011-2013 Birth Statistical Master Files.

**'ADEQUATE/ADEQUATE PLUS' PRENATAL CARE  
(ADEQUACY OF PRENATAL CARE UTILIZATION INDEX), 2011-2013**



The percentage of births to mothers with 'adequate/adequate plus' prenatal care for California was 79.2. The 79.2 percentage was based on a 2011 through 2013 three-year average number of births to mothers with 'adequate/adequate plus' prenatal care equaling 384,382.7 and a live births total of 485,278.0.

Among counties with reliable percentages, the percent of births to mothers with 'adequate/adequate plus' prenatal care ranged from 89.4 in Fresno County to 57.8 in Imperial County, a factor of 1.5 to 1.

Thirty 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 77.6 percent of total births according to the Adequacy of Prenatal Care Utilization Index. Please see Technical Notes, Natality Section, for determination of 'adequate/adequate plus' definition and additional clarification.

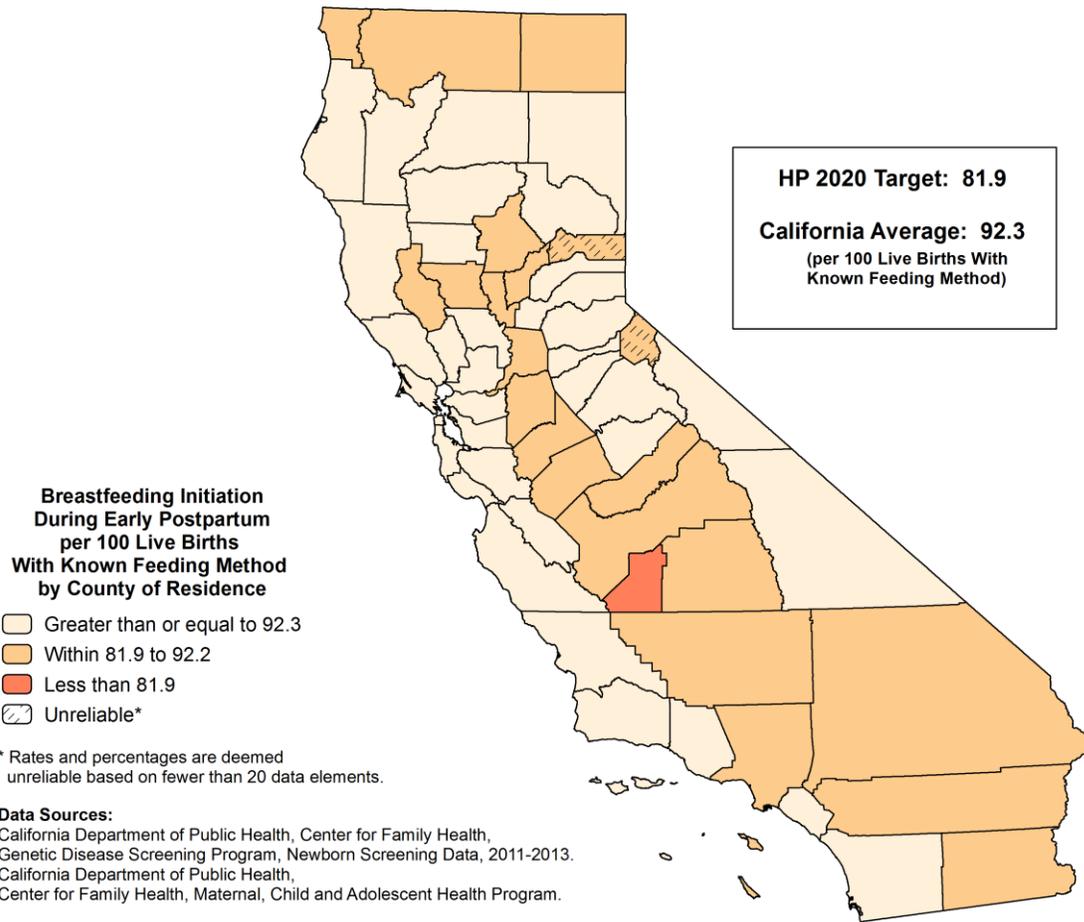
The California percentage of births to mothers with 'adequate/adequate plus' prenatal care for the 2008-2010 period was 79.4 per 100 live births.

**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, 2011-2013**

RANK ORDER	COUNTY OF RESIDENCE	2011-2013 LIVE BIRTHS (AVERAGE)			95% CONFIDENCE LIMITS	
		TOTAL NUMBER	ADEQUATE / ADEQUATE PLUS CARE		LOWER	UPPER
			NUMBER	PERCENT		
1	FRESNO	14,891.3	13,306.0	89.4	87.8	90.9
2	ORANGE	37,186.3	32,930.7	88.6	87.6	89.5
3	MARIN	2,316.7	2,050.0	88.5	84.7	92.3
4	SAN LUIS OBISPO	2,591.7	2,243.7	86.6	83.0	90.2
5	AMADOR	271.0	233.3	86.1	75.1	97.1
6	SANTA CRUZ	2,967.0	2,505.7	84.5	81.1	87.8
7	PLACER	3,706.7	3,118.7	84.1	81.2	87.1
8	SAN MATEO	8,992.7	7,549.7	84.0	82.1	85.8
9	VENTURA	10,554.0	8,737.7	82.8	81.1	84.5
10	SANTA BARBARA	5,689.3	4,691.3	82.5	80.1	84.8
11	TULARE	7,739.0	6,320.7	81.7	79.7	83.7
12	SUTTER	1,286.0	1,046.7	81.4	76.5	86.3
13	LOS ANGELES	123,001.0	99,877.3	81.2	80.7	81.7
14	YOLO	2,389.3	1,939.0	81.2	77.5	84.8
15	RIVERSIDE	30,053.7	24,352.3	81.0	80.0	82.0
16	DEL NORTE	314.0	254.0	80.9	70.9	90.8
17	MONO	143.7	116.0	80.7	66.0	95.4
18	SAN FRANCISCO	8,833.0	7,106.7	80.5	78.6	82.3
19	CALAVERAS	334.3	268.7	80.4	70.7	90.0
20	YUBA	1,225.0	977.3	79.8	74.8	84.8
21	COLUSA	307.0	243.0	79.2	69.2	89.1
	<b>CALIFORNIA</b>	<b>485,278.0</b>	<b>384,382.7</b>	<b>79.2</b>	<b>79.0</b>	<b>79.5</b>
22	EL DORADO	1,547.0	1,223.0	79.1	74.6	83.5
23	TUOLUMNE	449.0	353.7	78.8	70.6	87.0
24	INYO	213.3	167.7	78.6	66.7	90.5
25	SISKIYOU	464.0	364.0	78.4	70.4	86.5
26	NAPA	1,451.3	1,138.3	78.4	73.9	83.0
27	ALAMEDA	18,597.3	14,552.0	78.2	77.0	79.5
28	SACRAMENTO	19,098.0	14,932.3	78.2	76.9	79.4
29	SAN BENITO	734.7	571.3	77.8	71.4	84.1
30	BUTTE	2,358.3	1,831.0	77.6	74.1	81.2
	<b>HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: MICH-10.2</b>			<b>77.6</b>		
31	GLENN	377.7	292.3	77.4	68.5	86.3
32	SIERRA	17.7	13.7	77.4 *	41.9	100.0
33	CONTRA COSTA	12,000.0	9,246.3	77.1	75.5	78.6
34	SANTA CLARA	23,621.0	18,194.3	77.0	75.9	78.1
35	NEVADA	782.7	601.3	76.8	70.7	83.0
36	TEHAMA	744.0	570.7	76.7	70.4	83.0
37	SONOMA	5,080.3	3,887.0	76.5	74.1	78.9
38	HUMBOLDT	1,441.7	1,097.3	76.1	71.6	80.6
39	SAN BERNARDINO	29,939.3	22,691.0	75.8	74.8	76.8
40	MENDOCINO	1,047.0	793.3	75.8	70.5	81.0
41	SHASTA	1,973.7	1,470.7	74.5	70.7	78.3
42	SAN DIEGO	43,838.3	32,508.7	74.2	73.3	75.0
43	MONTEREY	6,481.0	4,725.0	72.9	70.8	75.0
44	KERN	13,135.7	9,551.3	72.7	71.3	74.2
45	ALPINE	6.0	4.3	72.2 *	21.0	100.0
46	SAN JOAQUIN	9,780.0	7,051.7	72.1	70.4	73.8
47	KINGS	2,394.0	1,691.3	70.6	67.3	74.0
48	STANISLAUS	7,233.0	5,038.0	69.7	67.7	71.6
49	SOLANO	5,089.0	3,437.0	67.5	65.3	69.8
50	PLUMAS	146.7	98.3	67.0	54.5	81.7
51	LASSEN	286.0	191.3	66.9	57.4	76.4
52	MADERA	2,260.3	1,489.3	65.9	62.5	69.2
53	TRINITY	108.3	70.3	64.9	50.6	82.0
54	LAKE	711.0	456.0	64.1	58.2	70.0
55	MARIPOSA	132.3	84.7	64.0	51.1	79.1
56	MODOC	72.3	44.3	61.3	44.6	82.2
57	MERCED	4,063.0	2,456.0	60.4	58.1	62.8
58	IMPERIAL	2,810.3	1,625.3	57.8	55.0	60.6

\* Rates are deemed unreliable based on fewer than 20 data elements.  
 Note: Counties were rank ordered first by decreasing percentage of births to mothers with 'adequate/adequate plus' prenatal care (calculated to 15 decimal places), second by decreasing size of the total number of live births.  
 Source: California Department of Public Health: 2011-2013 Birth Statistical Master Files.

## BREASTFEEDING INITIATION DURING EARLY POSTPARTUM, 2011-2013



The percentage of breastfed infants in California was 92.3 where the feeding method was known. This percentage was based on a 2011 through 2013 three-year average of 399,224.0 breastfed infants and 432,374.0 births with a known feeding method.

Among counties with reliable percentages, the percentages of breastfed infants ranged from 98.6 in Marin County to 81.6 in Kings County, a factor of 1.2 to 1.

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

Commensurable data for breastfed infants in California for the 2008-2010 period are unavailable.

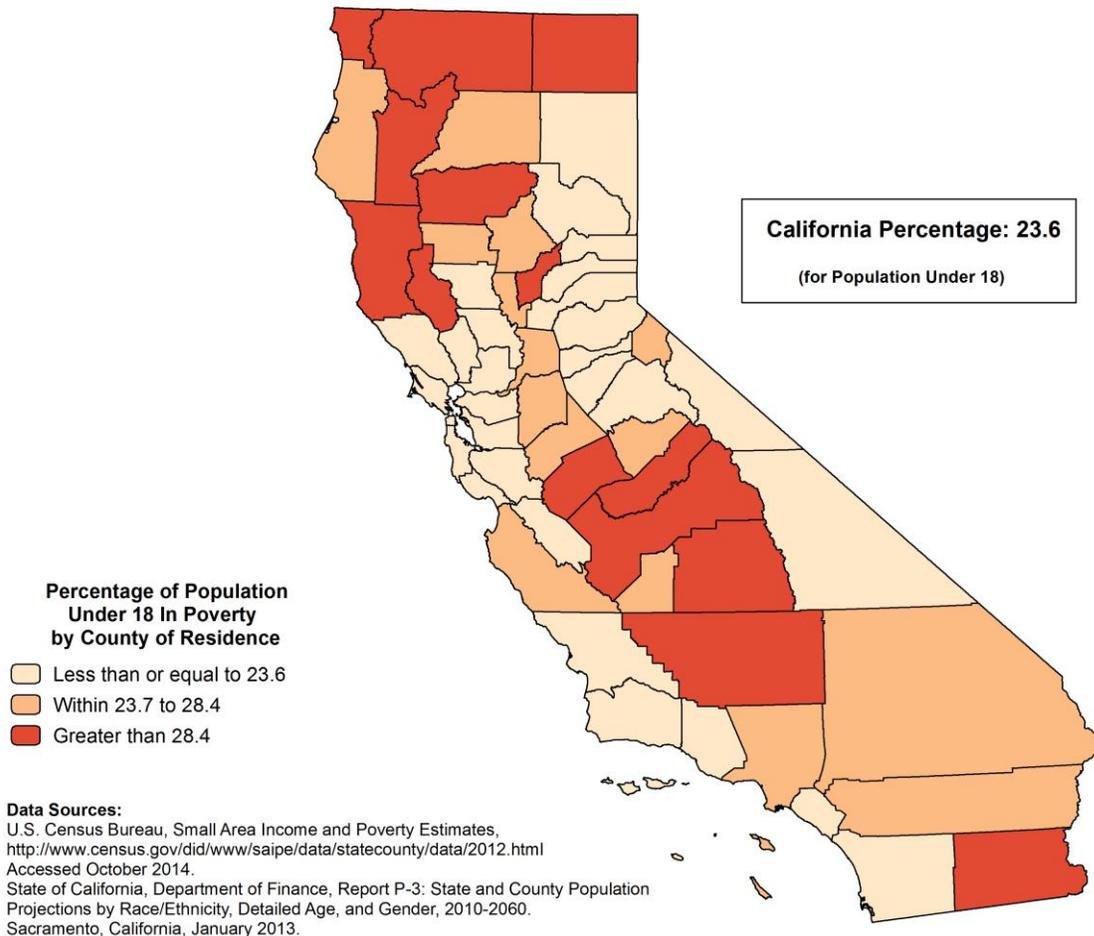
**TABLE 28  
BREASTFEEDING INITIATION DURING EARLY POSTPARTUM  
RANKED BY THREE YEAR AVERAGE BREASTFEEDING INITIATION PERCENTAGE  
CALIFORNIA COUNTIES, 2011-2013**

RANK ORDER	COUNTY OF RESIDENCE	2011-2013 BIRTHS (AVERAGE) WITH KNOWN FEEDING METHOD			95% CONFIDENCE LIMITS	
		TOTAL NUMBER	BREASTFED		LOWER	UPPER
			NUMBER	PERCENT		
1	MARIN	2,015.3	1,986.7	98.6	94.2	100.0
2	SANTA CRUZ	2,613.0	2,563.3	98.1	94.3	100.0
3	SONOMA	4,444.3	4,321.0	97.2	94.3	100.0
4	SAN MATEO	8,213.0	7,975.0	97.1	95.0	99.2
5	INYO	191.3	185.7	97.0	83.1	100.0
6	NEVADA	670.7	650.7	97.0	89.6	100.0
7	SAN LUIS OBISPO	2,288.0	2,219.3	97.0	93.0	100.0
8	NAPA	1,243.7	1,206.3	97.0	91.5	100.0
9	ALAMEDA	16,592.7	16,035.0	96.6	95.1	98.1
10	MONTEREY	5,676.3	5,485.0	96.6	94.1	99.2
11	SAN FRANCISCO	7,866.0	7,594.7	96.6	94.4	98.7
12	EL DORADO	1,329.0	1,280.3	96.3	91.1	100.0
13	SANTA CLARA	20,676.3	19,889.7	96.2	94.9	97.5
14	TRINITY	95.7	92.0	96.2	77.5	100.0
15	TUOLUMNE	390.7	375.7	96.2	86.4	100.0
16	MARIPOSA	129.0	124.0	96.1	79.2	100.0
17	CONTRA COSTA	10,352.7	9,921.0	95.8	93.9	97.7
18	MONO	116.7	111.7	95.7	78.0	100.0
19	YOLO	2,202.7	2,107.0	95.7	91.6	99.7
20	PLUMAS	112.0	107.0	95.5	77.4	100.0
21	PLACER	3,215.0	3,068.3	95.4	92.1	98.8
22	SAN BENITO	618.3	589.3	95.3	87.6	100.0
23	SAN DIEGO	34,017.3	32,412.3	95.3	94.2	96.3
24	SANTA BARBARA	4,920.7	4,685.7	95.2	92.5	98.0
25	MENDOCINO	949.3	903.3	95.2	88.9	100.0
26	VENTURA	9,197.3	8,748.3	95.1	93.1	97.1
27	AMADOR	246.7	233.0	94.5	82.3	100.0
28	CALAVERAS	291.3	274.3	94.2	83.0	100.0
29	SHASTA	1,798.7	1,693.7	94.2	89.7	98.6
30	LASSEN	236.3	222.0	93.9	81.6	100.0
31	SOLANO	4,049.3	3,802.0	93.9	90.9	96.9
32	HUMBOLDT	1,340.3	1,254.0	93.6	88.4	98.7
33	ORANGE	34,125.0	31,910.0	93.5	92.5	94.5
34	GLENN	347.0	322.0	92.8	82.7	100.0
35	TEHAMA	693.0	640.3	92.4	85.2	99.6
	<b>CALIFORNIA</b>	<b>432,374.0</b>	<b>399,224.0</b>	<b>92.3</b>	<b>92.0</b>	<b>92.6</b>
36	LOS ANGELES	115,224.7	105,885.0	91.9	91.3	92.4
37	LAKE	619.3	568.0	91.7	84.2	99.3
38	SISKIYOU	338.7	310.3	91.6	81.4	100.0
39	RIVERSIDE	25,997.0	23,813.3	91.6	90.4	92.8
40	MADERA	2,082.7	1,906.3	91.5	87.4	95.6
41	SIERRA	11.7	10.7	91.4 *	45.1	100.0
42	BUTTE	2,134.0	1,947.7	91.3	87.2	95.3
43	SACRAMENTO	17,154.0	15,622.7	91.1	89.6	92.5
44	DEL NORTE	301.0	273.3	90.8	80.0	100.0
45	MODOC	25.3	23.0	90.8	57.6	100.0
46	MERCED	3,723.3	3,337.3	89.6	86.6	92.7
47	COLUSA	269.0	239.3	89.0	77.7	100.0
48	SUTTER	1,114.3	991.3	89.0	83.4	94.5
49	IMPERIAL	2,680.7	2,380.0	88.8	85.2	92.4
50	SAN JOAQUIN	8,443.0	7,417.0	87.8	85.8	89.8
51	SAN BERNARDINO	25,790.3	22,559.7	87.5	86.3	88.6
52	STANISLAUS	6,760.7	5,891.3	87.1	84.9	89.4
53	YUBA	1,057.7	918.7	86.9	81.2	92.5
54	TULARE	6,912.0	5,972.7	86.4	84.2	88.6
55	KERN	12,283.3	10,597.7	86.3	84.6	87.9
56	FRESNO	14,315.3	12,041.3	84.1	82.6	85.6
57	ALPINE	4.0	3.3	83.3 *	19.2	100.0
	<b>HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: MICH-21.1</b>			<b>81.9</b>		
58	KINGS	1,867.3	1,524.3	81.6	77.5	85.7

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

Note: Counties were rank ordered first by decreasing breastfed percentage (calculated to 15 decimal places), second by decreasing number of births.  
Sources: California Department of Public Health, Center for Family Health, Genetic Disease Screening Program, Newborn Screening Data, 2011-2013.  
California Department of Public Health, Center for Family Health, Maternal, Child and Adolescent Health Program.

## PERSONS UNDER 18 IN POVERTY, 2012



Californians under 18 years of age living in poverty represent 23.6 percent of the population of persons under 18 years of age. This percentage is based on the U.S. Census Bureau, American Community Survey 2012 estimate of persons under 18 years of age, living in poverty, of 2,164,587 and a California Department of Finance corresponding population count of 9,170,526 as of July 1, 2012.

All counties demonstrated reliable percentages for persons less than 18 years of age in poverty. The percentages ranged from 40.7 in Tulare County to 10.4 in Marin County, a factor of 3.9 to 1.

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

The percentage of Californians under 18 years of age in poverty was 22.6 for 2011.

**TABLE 29  
PERSONS UNDER 18 IN POVERTY  
RANKED BY PERCENTAGE OF CENSUS POPULATION UNDER 18 BELOW POVERTY  
CALIFORNIA COUNTIES, 2012**

RANK ORDER	COUNTY OF RESIDENCE	UNDER 18			95% CONFIDENCE LIMITS	
		2012 POPULATION	IN POVERTY		LOWER	UPPER
			NUMBER	PERCENT		
<b>HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE:</b>				<b>NONE</b>		
1	MARIN	51,763	5,377	10.4	10.1	10.7
2	SAN MATEO	162,180	17,685	10.9	10.7	11.1
3	PLACER	85,224	9,794	11.5	11.3	11.7
4	EL DORADO	39,168	4,724	12.1	11.7	12.4
5	SANTA CLARA	436,447	54,064	12.4	12.3	12.5
6	NAPA	31,125	4,316	13.9	13.5	14.3
7	CONTRA COSTA	255,890	37,201	14.5	14.4	14.7
8	SONOMA	104,978	15,771	15.0	14.8	15.3
9	SAN FRANCISCO	116,481	17,679	15.2	15.0	15.4
10	SAN LUIS OBISPO	50,367	8,239	16.4	16.0	16.7
11	MONO	2,971	496	16.7	15.2	18.2
12	ALAMEDA	343,820	58,641	17.1	16.9	17.2
13	SANTA CRUZ	55,954	9,632	17.2	16.9	17.6
14	NEVADA	18,018	3,106	17.2	16.6	17.8
15	VENTURA	206,821	36,174	17.5	17.3	17.7
16	YOLO	44,406	7,829	17.6	17.2	18.0
17	ORANGE	724,926	130,230	18.0	17.9	18.1
18	AMADOR	6,009	1,084	18.0	17.0	19.1
19	SAN BENITO	15,546	2,827	18.2	17.5	18.9
20	SOLANO	97,912	18,281	18.7	18.4	18.9
21	SIERRA	481	95	19.8	16.0	24.2
22	SAN DIEGO	722,277	142,756	19.8	19.7	19.9
23	INYO	3,727	741	19.9	18.5	21.3
24	TUOLUMNE	9,222	1,865	20.2	19.3	21.1
25	COLUSA	6,173	1,254	20.3	19.2	21.4
26	CALAVERAS	8,280	1,686	20.4	19.4	21.3
27	SANTA BARBARA	97,785	20,168	20.6	20.3	20.9
28	LASSEN	5,682	1,270	22.4	21.1	23.6
29	PLUMAS	3,317	777	23.4	21.8	25.1
	<b>CALIFORNIA</b>	<b>9,170,526</b>	<b>2,164,587</b>	<b>23.6</b>	<b>23.6</b>	<b>23.6</b>
30	SUTTER	25,370	6,099	24.0	23.4	24.6
31	SAN JOAQUIN	197,931	48,563	24.5	24.3	24.8
32	RIVERSIDE	611,198	151,799	24.8	24.7	25.0
33	MARIPOSA	3,056	766	25.1	23.3	26.8
34	SHASTA	39,051	9,835	25.2	24.7	25.7
35	GLENN	7,657	2,010	26.3	25.1	27.4
36	BUTTE	45,992	12,092	26.3	25.8	26.8
37	SACRAMENTO	359,112	95,891	26.7	26.5	26.9
38	HUMBOLDT	26,337	7,067	26.8	26.2	27.5
39	ALPINE	245	66	27.0	20.9	34.3
40	LOS ANGELES	2,341,123	633,448	27.1	27.0	27.1
41	MONTEREY	111,806	30,270	27.1	26.8	27.4
42	STANISLAUS	144,581	39,172	27.1	26.8	27.4
43	SAN BERNARDINO	579,792	162,732	28.1	27.9	28.2
44	KINGS	40,866	11,586	28.4	27.8	28.9
45	MODOC	2,010	593	29.5	27.1	31.9
46	YUBA	20,586	6,243	30.3	29.6	31.1
47	MENDOCINO	19,078	5,900	30.9	30.1	31.7
48	LAKE	13,100	4,087	31.2	30.2	32.2
49	TEHAMA	15,514	4,876	31.4	30.5	32.3
50	SISKIYOU	8,878	2,818	31.7	30.6	32.9
51	IMPERIAL	50,932	16,597	32.6	32.1	33.1
52	DEL NORTE	5,778	1,884	32.6	31.1	34.1
53	KERN	251,296	84,192	33.5	33.3	33.7
54	TRINITY	2,335	786	33.7	31.3	36.0
55	MERCED	79,582	28,282	35.5	35.1	36.0
56	MADERA	42,036	14,991	35.7	35.1	36.2
57	FRESNO	275,524	110,042	39.9	39.7	40.2
58	TULARE	142,812	58,138	40.7	40.4	41.0

Note: Counties were rank ordered first by increasing percentage of persons under 18 in poverty (calculated to 15 decimal places), second by decreasing size of the same age group population.

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

Sources: U.S. Census Bureau, Small Area Income and Poverty Estimates.

<http://www.census.gov/did/www/saipa/data/statecounty/data/2012.html> Accessed October 2014.

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, January 2013.

**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	
	2008-2010	2011-2013	2008-2010	2011-2013	2008-2010	2011-2013
CALIFORNIA	156.2	151.0	14.6	13.9	37.1	33.6
ALAMEDA	152.8	145.6	14.7	13.3	35.7	32.2
ALPINE	220.2 *	118.6 *	31.1 *	-	21.8 *	30.9 *
AMADOR	166.6	168.8	11.1 *	12.6 *	44.4	51.4
BUTTE	180.4	179.0	14.4	13.3	46.7	45.7
CALAVERAS	155.3	167.6	16.3 *	12.7 *	43.6	41.3
COLUSA	153.0	154.0	9.5 *	8.9 *	55.3 *	42.0 *
CONTRA COSTA	154.9	153.0	15.3	14.9	35.9	36.4
DEL NORTE	212.2	164.6	18.7 *	13.7 *	62.8	50.9 *
EL DORADO	159.7	146.3	14.6	10.6	39.6	31.1
FRESNO	154.3	151.2	13.8	13.4	38.2	35.6
GLENN	167.8	163.6	8.8 *	11.8 *	50.9 *	42.8 *
HUMBOLDT	182.3	174.9	16.5	15.6	44.0	39.6
IMPERIAL	136.4	124.8	11.0 *	11.1 *	30.0	24.5
INYO	130.5	120.8	14.4 *	16.2 *	30.5 *	33.3 *
KERN	166.6	154.4	14.1	12.7	44.5	40.6
KINGS	149.4	149.5	10.8 *	13.5 *	36.1	35.5
LAKE	187.2	199.9	13.3 *	15.3 *	59.3	54.1
LASSEN	132.0	116.2	9.5 *	8.6 *	34.0 *	36.1 *
LOS ANGELES	152.0	146.2	14.9	14.4	33.1	29.8
MADERA	151.7	143.8	17.1	14.2	36.3	35.1
MARIN	139.8	136.0	12.8	10.3	31.3	28.6
MARIPOSA	145.9	159.5	5.3 *	13.1 *	50.3 *	38.2 *
MENDOCINO	171.4	163.5	16.5 *	12.3 *	43.0	41.1
MERCED	156.4	163.3	16.0	16.4	43.4	39.1
MODOC	152.5	153.7	19.1 *	19.1 *	50.2 *	21.6 *
MONO	77.9 *	75.1 *	5.9 *	5.1 *	18.5 *	14.3 *
MONTEREY	137.3	143.5	10.1	10.8	33.3	29.9
NAPA	176.9	163.1	17.8	10.8 *	41.1	38.5
NEVADA	145.1	157.7	12.3 *	13.1 *	33.5	34.2
ORANGE	147.6	142.9	13.0	12.2	34.7	31.6
PLACER	163.8	153.6	13.9	11.5	37.9	32.7
PLUMAS	149.0	138.8	17.2 *	8.3 *	39.4 *	25.5 *
RIVERSIDE	161.3	153.3	17.1	14.7	40.7	35.8
SACRAMENTO	170.8	169.3	15.2	16.2	45.7	41.2
SAN BENITO	161.0	147.7	13.8 *	12.8 *	36.4 *	25.2 *
SAN BERNARDINO	167.4	165.0	16.9	16.7	40.2	37.4
SAN DIEGO	160.0	157.3	14.0	14.1	37.7	35.6
SAN FRANCISCO	150.4	145.2	14.7	14.2	36.3	33.6
SAN JOAQUIN	167.0	171.3	13.5	15.5	46.8	43.2
SAN LUIS OBISPO	159.7	145.2	13.6	13.8	38.5	32.9
SAN MATEO	146.5	137.6	14.1	11.6	32.7	28.9
SANTA BARBARA	147.8	144.6	11.8	13.4	34.1	26.7
SANTA CLARA	138.9	133.7	13.4	11.5	29.5	27.2
SANTA CRUZ	148.2	144.4	12.3	13.0	32.0	26.8
SHASTA	202.7	176.3	17.6	17.9	57.7	42.6
SIERRA	101.5 *	111.0 *	4.2 *	-	29.8 *	29.6 *
SISKIYOU	190.0	180.7	16.9 *	14.1 *	55.9	43.9
SOLANO	177.8	174.5	16.7	15.5	45.3	43.6
SONOMA	170.2	159.1	14.8	14.5	42.5	35.4
STANISLAUS	167.5	166.7	17.5	17.0	45.0	41.1
SUTTER	160.2	149.2	13.5 *	9.8 *	51.9	43.8
TEHAMA	184.7	190.6	16.3 *	19.0 *	50.9	53.4
TRINITY	198.9	185.7	10.0 *	16.5 *	66.0 *	45.1 *
TULARE	159.0	151.1	14.0	12.2	42.8	37.1
TUOLUMNE	157.4	163.3	12.5 *	17.8 *	45.8	34.1
VENTURA	151.6	142.3	15.1	13.5	34.5	28.5
YOLO	158.4	158.7	14.9	13.8	37.2	32.5
YUBA	193.5	173.1	17.3 *	13.9 *	63.8	51.4

- Rates and percentages are not calculated for zero events.  
 \* Rates and percentages are deemed unreliable based on fewer than 20 data elements.  
 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	
	2008-2010	2011-2013	2008-2010	2011-2013	2008-2010	2011-2013
CALIFORNIA	21.4	20.7	21.7	20.2	20.1	20.8
ALAMEDA	20.5	20.6	23.9	20.2	20.7	21.0
ALPINE	-	-	110.3 *	-	43.5 *	-
AMADOR	30.7 *	27.7 *	18.2 *	23.0 *	10.8 *	7.6 *
BUTTE	26.2	19.4	29.2	25.0	17.4	17.5
CALAVERAS	23.8 *	18.6 *	19.3 *	20.6 *	15.0 *	14.4 *
COLUSA	23.5 *	26.4 *	22.8 *	17.6 *	5.4 *	14.3 *
CONTRA COSTA	21.0	22.1	21.6	19.6	16.2	16.6
DEL NORTE	27.9 *	8.7 *	28.4 *	28.5 *	19.1 *	16.9 *
EL DORADO	21.6	17.8	18.9 *	20.2 *	11.6	10.6
FRESNO	18.6	20.1	18.7	19.3	28.1	29.1
GLENN	20.5 *	20.7 *	23.6 *	9.6 *	22.9 *	32.5 *
HUMBOLDT	25.0	27.2	25.7 *	26.3 *	23.8	26.7
IMPERIAL	17.7 *	17.1 *	25.5 *	22.4 *	29.4	29.5
INYO	24.8 *	17.8 *	26.8 *	10.5 *	11.7 *	11.8 *
KERN	21.9	20.6	24.8	22.3	31.1	34.7
KINGS	23.4 *	19.3 *	22.6 *	22.5 *	32.2	32.3
LAKE	23.3 *	20.0 *	22.7 *	24.4 *	16.5 *	19.2 *
LASSEN	11.7 *	7.8 *	10.0 *	10.3 *	21.0 *	19.4 *
LOS ANGELES	21.5	21.3	21.8	19.2	22.4	23.0
MADERA	13.4 *	17.9 *	20.0 *	17.2 *	17.0	16.8
MARIN	19.0	18.2	22.5	16.2	8.6	8.9
MARIPOSA	17.1 *	21.4 *	26.3 *	19.4 *	12.0 *	14.7 *
MENDOCINO	27.1 *	23.6 *	19.3 *	18.6 *	15.5 *	15.6 *
MERCED	15.8 *	21.1	20.4 *	19.0 *	24.5	28.0
MODOC	9.3 *	42.4 *	5.4 *	16.7 *	11.9 *	24.5 *
MONO	17.7 *	20.0 *	17.9 *	-	3.7 *	17.2 *
MONTEREY	19.2	19.1	21.0	20.3	16.9	19.5
NAPA	19.0 *	15.9 *	24.5 *	23.4 *	18.9	11.4
NEVADA	21.2 *	18.3 *	18.4 *	25.9 *	11.0 *	9.3 *
ORANGE	21.0	18.4	20.6	19.2	14.3	15.0
PLACER	24.5	22.8	19.2	21.2	13.1	14.4
PLUMAS	22.2 *	20.0 *	25.7 *	13.1 *	19.6 *	12.6 *
RIVERSIDE	22.4	21.3	22.4	21.3	19.2	19.4
SACRAMENTO	21.1	22.3	22.1	21.5	19.6	22.9
SAN BENITO	25.9 *	18.5 *	18.0 *	33.7 *	15.9 *	15.8 *
SAN BERNARDINO	23.8	23.5	25.5	23.3	31.8	33.0
SAN DIEGO	22.7	21.2	23.4	22.2	18.9	19.6
SAN FRANCISCO	17.1	18.8	16.2	14.5	11.2	11.8
SAN JOAQUIN	21.1	21.7	21.9	20.5	30.4	29.0
SAN LUIS OBISPO	20.9	22.0	20.8	20.7	12.6	13.6
SAN MATEO	19.9	19.1	18.9	17.8	11.3	12.2
SANTA BARBARA	17.2	20.6	21.5	24.5	15.3	14.7
SANTA CLARA	19.0	17.3	15.6	17.8	22.4	22.4
SANTA CRUZ	24.4	21.8	18.6 *	20.2	17.9	13.4
SHASTA	21.6	19.9	27.5	25.5	13.6	17.1
SIERRA	8.6 *	-	14.9 *	57.4 *	14.0 *	-
SISKIYOU	23.3 *	32.6 *	31.5 *	31.3 *	23.1 *	20.1 *
SOLANO	23.8	20.7	25.7	23.2	25.7	24.8
SONOMA	25.4	23.4	23.7	18.5	15.5	18.2
STANISLAUS	21.0	20.3	21.9	21.7	23.1	21.2
SUTTER	20.2 *	15.7 *	24.5 *	17.5 *	16.2 *	21.3
TEHAMA	20.3 *	17.3 *	26.4 *	20.5 *	16.2 *	21.7 *
TRINITY	20.2 *	20.4 *	19.3 *	18.4 *	6.7 *	13.1 *
TULARE	19.4	21.2	20.8	20.1	24.5	25.8
TUOLUMNE	16.6 *	19.6 *	19.2 *	15.4 *	13.9 *	16.8 *
VENTURA	22.2	21.2	21.9	19.9	16.8	16.6
YOLO	23.5	17.5 *	18.5 *	21.1 *	18.0	23.6
YUBA	15.9 *	22.6 *	20.6 *	31.1 *	18.0 *	21.0 *

- Rates and percentages are not calculated for zero events.  
\* Rates and percentages are deemed unreliable based on fewer than 20 data elements.  
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)	
	2008-2010	2011-2013	2008-2010	2011-2013	2008-2010	2011-2013
CALIFORNIA	28.9	30.8	114.2	103.8	38.5	35.9
ALAMEDA	23.3	27.2	90.1	77.7	39.3	37.5
ALPINE	-	-	40.2 *	24.0 *	-	12.0 *
AMADOR	27.2 *	34.5	108.7	100.3	38.0	31.6
BUTTE	40.0	41.3	128.3	103.3	44.7	44.1
CALAVERAS	13.3 *	17.8 *	104.5	105.2	31.4	30.4
COLUSA	25.5 *	17.7 *	89.4 *	105.4	41.0 *	34.4 *
CONTRA COSTA	31.2	33.2	81.7	74.3	41.5	37.2
DEL NORTE	16.6 *	20.1 *	124.1	104.4	48.8 *	40.0 *
EL DORADO	33.3	27.6	100.9	84.8	27.2	23.5
FRESNO	31.7	33.2	126.8	112.9	47.3	45.7
GLENN	17.8 *	25.1 *	112.5	98.6	27.5 *	38.4 *
HUMBOLDT	30.2	29.4	107.3	105.2	55.6	56.3
IMPERIAL	13.7 *	11.7 *	91.6	112.0	44.2	35.1
INYO	1.2 *	4.1 *	141.6	73.6	36.4 *	37.5 *
KERN	34.9	36.8	152.0	134.2	43.9	37.7
KINGS	24.4	40.6	118.3	110.3	45.5	35.3
LAKE	22.7	32.3	150.8	135.3	44.1	50.5
LASSEN	9.3 *	17.0 *	95.5	83.6	28.0 *	23.2 *
LOS ANGELES	24.1	25.7	133.8	122.3	36.7	34.7
MADERA	30.6	42.7	136.2	140.7	31.8	45.9
MARIN	32.3	38.5	61.7	64.6	30.6	28.4
MARIPOSA	22.9 *	22.7 *	98.3	119.8	34.8 *	31.6 *
MENDOCINO	14.9 *	19.1	124.8	101.0	40.9	35.0
MERCED	22.6	27.1	137.5	117.2	47.0	41.4
MODOC	24.1 *	7.5 *	106.0 *	121.8 *	39.3 *	39.9 *
MONO	14.4 *	5.8 *	56.7 *	54.1 *	2.3 *	28.7 *
MONTEREY	16.9	20.6	92.1	78.7	36.6	39.8
NAPA	30.7	31.0	90.9	86.3	37.5	39.5
NEVADA	17.7	40.5	94.8	97.5	38.8	31.4
ORANGE	32.0	36.6	106.1	98.8	37.1	34.7
PLACER	34.4	35.2	102.0	97.5	40.9	31.0
PLUMAS	17.8 *	19.2 *	91.2	95.8	25.4 *	29.5 *
RIVERSIDE	29.5	30.6	128.0	122.9	39.6	35.2
SACRAMENTO	27.0	27.2	119.6	107.5	41.2	39.8
SAN BENITO	14.1 *	10.2 *	66.9	69.8	34.8 *	41.3
SAN BERNARDINO	29.5	29.8	145.6	120.9	43.7	38.2
SAN DIEGO	36.5	37.1	102.4	95.7	35.4	32.7
SAN FRANCISCO	20.6	27.1	77.2	66.5	33.5	34.5
SAN JOAQUIN	33.3	44.1	139.3	107.8	45.3	45.5
SAN LUIS OBISPO	22.4	19.2	79.5	78.2	52.1	57.8
SAN MATEO	29.5	30.7	80.8	73.5	33.7	28.5
SANTA BARBARA	27.2	30.6	102.8	92.4	36.0	37.9
SANTA CLARA	38.2	31.3	79.8	72.5	29.4	25.5
SANTA CRUZ	28.5	37.6	95.0	81.6	35.5	30.9
SHASTA	33.4	41.2	127.0	117.8	47.5	46.6
SIERRA	-	14.9 *	111.4 *	107.9 *	48.5 *	19.8 *
SISKIYOU	23.1 *	21.4 *	117.9	98.5	42.3	41.7
SOLANO	47.2	45.4	92.2	79.0	40.5	35.9
SONOMA	39.7	40.2	97.9	88.7	43.4	36.2
STANISLAUS	39.1	39.3	160.6	148.0	45.4	43.7
SUTTER	24.1	25.2	120.0	117.5	41.8	40.4
TEHAMA	23.6 *	32.2	111.6	103.6	52.5	51.1
TRINITY	17.7 *	29.1 *	98.1 *	100.1	30.4 *	27.4 *
TULARE	15.9	22.6	133.7	133.5	49.3	46.1
TUOLUMNE	13.1 *	15.1 *	98.6	103.5	35.0	35.9
VENTURA	27.6	30.1	108.4	84.8	36.9	34.8
YOLO	38.4	39.3	82.4	75.2	43.3	34.8
YUBA	25.3 *	21.7 *	158.3	149.4	35.2 *	52.2

- Rates and percentages are not calculated for zero events.  
\* Rates and percentages are deemed unreliable based on fewer than 20 data elements.  
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	
	2008-2010	2011-2013	2008-2010	2011-2013	2008-2010	2011-2013
CALIFORNIA	17.7	16.3	37.6	35.9	11.2	11.7
ALAMEDA	15.8	13.9	30.7	29.1	8.7	9.7
ALPINE	-	-	-	-	-	-
AMADOR	24.9 *	26.9 *	49.3	43.0	16.2 *	13.4 *
BUTTE	15.6	15.6	61.0	55.7	14.7	14.9
CALAVERAS	20.0 *	15.4 *	43.4	44.8	9.2 *	11.5 *
COLUSA	15.1 *	8.4 *	47.9 *	46.0 *	9.1 *	12.9 *
CONTRA COSTA	12.8	10.9	37.6	33.9	9.1	9.0
DEL NORTE	17.6 *	23.1 *	56.8 *	47.0 *	11.4 *	12.8 *
EL DORADO	13.8	12.0	40.5	39.0	8.5 *	12.2
FRESNO	23.6	21.1	38.2	36.0	13.6	14.9
GLENN	20.3 *	22.0 *	49.7 *	55.7 *	13.4 *	8.9 *
HUMBOLDT	12.2 *	8.1 *	58.8	54.7	16.8	19.5
IMPERIAL	12.9 *	12.6	24.7	19.8	14.9	14.6
INYO	10.4 *	7.5 *	46.0 *	52.3 *	22.3 *	11.5 *
KERN	22.4	16.4	71.2	59.5	13.6	12.6
KINGS	18.0 *	19.8	50.4	44.2	14.0 *	14.1 *
LAKE	19.2 *	21.6 *	62.5	73.7	25.0	21.3
LASSEN	11.6 *	13.0 *	46.4 *	30.8 *	4.9 *	8.2 *
LOS ANGELES	23.3	22.3	33.6	31.2	12.2	12.7
MADERA	20.1	17.2	45.4	43.2	14.8	15.2
MARIN	14.2	10.8	22.9	22.7	7.8	6.0
MARIPOSA	13.6 *	13.5 *	41.1 *	35.1 *	14.2 *	9.4 *
MENDOCINO	12.8 *	14.9 *	48.6	48.9	13.9 *	14.4 *
MERCED	17.7	14.6	45.0	46.2	13.0	16.3
MODOC	21.2 *	12.9 *	63.2 *	60.1 *	21.0 *	8.7 *
MONO	2.0 *	3.8 *	7.1 *	13.2 *	3.4 *	4.9 *
MONTEREY	10.4	13.1	31.6	28.3	10.3	10.4
NAPA	18.7	13.8	35.0	33.4	11.9 *	10.9 *
NEVADA	11.9 *	15.2	41.2	44.8	9.6 *	9.0 *
ORANGE	18.3	17.8	32.6	31.2	9.5	9.5
PLACER	12.8	12.3	38.6	37.3	8.1	9.6
PLUMAS	8.9 *	10.3 *	58.0 *	43.0 *	5.3 *	8.2 *
RIVERSIDE	12.6	12.6	45.5	46.4	10.4	12.6
SACRAMENTO	21.0	17.3	42.3	41.3	10.5	11.3
SAN BENITO	21.8 *	19.7 *	36.5 *	30.5 *	14.8 *	11.3 *
SAN BERNARDINO	13.3	14.1	57.2	55.0	11.8	13.9
SAN DIEGO	10.2	9.7	34.3	34.1	10.2	10.2
SAN FRANCISCO	18.5	14.1	22.6	21.0	7.9	7.9
SAN JOAQUIN	16.2	18.0	46.1	44.4	16.6	17.1
SAN LUIS OBISPO	11.2	10.9	38.1	36.5	11.3	13.1
SAN MATEO	21.8	16.2	27.4	24.6	9.8	9.3
SANTA BARBARA	12.0	13.0	30.7	26.0	12.0	11.3
SANTA CLARA	16.0	13.2	25.7	24.2	9.1	9.0
SANTA CRUZ	12.3	14.1	34.9	29.3	14.4	13.0
SHASTA	12.1	12.1	74.3	72.4	14.2	18.0
SIERRA	-	24.6 *	46.6 *	56.7 *	20.5 *	19.2 *
SISKIYOU	19.6 *	7.2 *	48.1	62.0	21.2 *	17.7 *
SOLANO	22.6	18.4	41.9	41.3	10.7	9.8
SONOMA	12.2	8.6	40.7	38.2	11.0	11.9
STANISLAUS	20.8	16.8	46.8	49.6	13.5	13.9
SUTTER	17.7 *	16.0 *	51.5	50.8	13.6 *	14.6 *
TEHAMA	23.2 *	13.1 *	63.0	71.1	14.5 *	21.0 *
TRINITY	17.3 *	10.3 *	36.4 *	47.4 *	19.6 *	22.9 *
TULARE	22.9	22.7	47.7	48.2	15.9	17.4
TUOLUMNE	19.2 *	13.9 *	41.9	42.1	15.1 *	14.6 *
VENTURA	11.6	10.3	36.6	32.2	10.1	10.2
YOLO	24.0	18.7	47.9	49.6	11.2	14.5
YUBA	17.9 *	27.7 *	56.7	75.8	17.1 *	14.1 *

- Rates and percentages are not calculated for zero events.  
\* Rates and percentages are deemed unreliable based on fewer than 20 data elements.  
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	
	2008-2010	2011-2013	2008-2010	2011-2013	2008-2010	2011-2013
CALIFORNIA	28.1	27.9	8.1	7.6	10.1	10.2
ALAMEDA	22.4	23.4	5.1	4.8	9.0	8.6
ALPINE	40.2 *	49.2 *	40.2 *	-	68.2 *	-
AMADOR	60.1	39.9 *	18.4 *	10.3 *	23.5 *	23.3 *
BUTTE	61.7	60.4	15.4	10.6	19.4	16.8
CALAVERAS	54.3	41.1	25.9 *	20.1 *	18.3 *	26.2 *
COLUSA	27.8 *	49.0 *	11.2 *	22.3 *	13.4 *	23.3 *
CONTRA COSTA	26.0	25.4	6.8	5.3	11.0	10.1
DEL NORTE	66.1 *	68.2	18.3 *	26.2 *	19.6 *	20.6 *
EL DORADO	39.5	40.7	7.7 *	10.8 *	15.8	16.3
FRESNO	39.8	36.7	13.9	12.8	7.5	9.8
GLENN	58.5 *	53.2 *	17.3 *	12.8 *	10.7 *	5.9 *
HUMBOLDT	66.7	70.9	14.7	20.0	23.9	23.7
IMPERIAL	30.9	36.1	11.2 *	10.5 *	5.2 *	7.7 *
INYO	33.4 *	32.7 *	8.8 *	5.2 *	21.9 *	18.9 *
KERN	42.6	42.9	15.2	13.0	10.8	12.6
KINGS	38.8	38.4	17.7	13.1	7.0 *	8.9 *
LAKE	72.8	87.6	19.6 *	25.9 *	29.0 *	25.8 *
LASSEN	45.1 *	47.3 *	12.5 *	12.0 *	11.4 *	20.2 *
LOS ANGELES	21.0	20.3	6.9	6.5	8.0	7.6
MADERA	41.5	40.7	21.0	14.9	10.3 *	17.1
MARIN	22.9	29.1	3.8 *	3.5 *	14.0	12.5
MARIPOSA	44.6 *	49.5 *	23.5 *	16.0 *	27.9 *	29.0 *
MENDOCINO	57.0	49.7	19.9 *	15.3 *	24.7	20.9 *
MERCED	42.0	46.5	14.1	16.4	10.8	11.1
MODOC	74.6 *	78.4 *	11.2 *	31.6 *	14.4 *	26.4 *
MONO	20.1 *	26.2 *	7.6 *	11.1 *	6.7 *	15.7 *
MONTEREY	29.3	32.0	8.3	8.1	10.0	8.1
NAPA	29.4	30.7	9.5 *	9.3 *	11.0 *	12.8 *
NEVADA	34.7	48.6	12.1 *	15.4 *	16.4 *	20.7
ORANGE	22.6	22.0	5.2	5.4	8.9	9.6
PLACER	25.6	28.7	6.5	7.2	14.5	11.7
PLUMAS	53.8 *	51.3 *	9.0 *	8.2 *	13.8 *	23.8 *
RIVERSIDE	31.5	31.6	10.4	9.6	9.7	10.9
SACRAMENTO	34.6	31.8	8.7	8.5	12.5	13.0
SAN BENITO	25.5 *	37.4	9.0 *	15.0 *	8.9 *	7.3 *
SAN BERNARDINO	26.2	25.0	10.8	10.4	11.3	10.4
SAN DIEGO	29.7	30.9	7.3	6.2	11.3	12.5
SAN FRANCISCO	33.5	29.4	3.7	2.7	9.9	9.2
SAN JOAQUIN	42.2	39.1	12.2	10.3	10.2	11.4
SAN LUIS OBISPO	32.9	34.6	8.3	7.9	14.8	15.9
SAN MATEO	21.3	21.8	4.7	5.6	8.9	7.7
SANTA BARBARA	30.7	25.6	7.5	6.8	10.8	10.2
SANTA CLARA	23.3	23.0	5.8	5.2	8.4	8.2
SANTA CRUZ	31.4	33.4	7.9	6.2 *	12.9	13.7
SHASTA	63.6	63.6	13.5	14.1	19.9	21.4
SIERRA	44.6 *	21.5 *	4.2 *	-	15.7 *	8.5 *
SISKIYOU	65.2	67.5	18.8 *	21.3 *	20.0 *	25.9 *
SOLANO	27.5	29.5	7.6	8.5	11.1	11.4
SONOMA	30.4	24.7	7.8	4.7	13.8	11.2
STANISLAUS	36.4	38.3	10.2	13.1	11.1	11.0
SUTTER	40.3	40.4	18.7 *	11.9 *	14.5 *	11.3 *
TEHAMA	52.4	65.0	19.5 *	17.3 *	14.6 *	22.6 *
TRINITY	64.9 *	76.7 *	12.1 *	22.2 *	34.0 *	22.1 *
TULARE	37.8	32.5	15.6	12.0	9.8	10.7
TUOLUMNE	57.2	50.7	12.4 *	15.7 *	18.9 *	15.3 *
VENTURA	27.3	31.0	7.7	7.5	10.7	11.6
YOLO	26.5	34.0	7.2 *	10.2	10.6	7.9 *
YUBA	59.0	59.6	15.8 *	12.1 *	14.1 *	14.4 *

- Rates and percentages are not calculated for zero events.  
\* Rates and percentages are deemed unreliable based on fewer than 20 data elements.  
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	
	2008-2010	2011-2013	2008-2010	2011-2013	2008-2010	2011-2013
CALIFORNIA	5.5	5.1	8.0	7.8	11.0	11.1
ALAMEDA	9.0	8.1	10.9	9.8	9.4	9.7
ALPINE	-	-	68.2*	-	-	-
AMADOR	3.1*	4.1*	14.5*	9.6*	27.1*	19.1*
BUTTE	4.3*	4.4*	10.7	12.0	34.8	32.6
CALAVERAS	2.5*	4.9*	9.9*	20.1*	24.3*	27.5*
COLUSA	6.3*	5.1*	11.5*	15.9*	2.6*	10.0*
CONTRA COSTA	9.0	6.7	12.2	9.8	9.8	11.7
DEL NORTE	8.8*	5.3*	10.8*	19.2*	15.4*	12.1*
EL DORADO	2.8*	3.4*	10.6	10.1*	19.6	17.6
FRESNO	7.3	7.8	8.9	10.0	12.5	10.0
GLENN	3.3*	2.8*	12.8*	6.8*	22.4*	17.5*
HUMBOLDT	5.2*	4.7*	12.5*	11.5*	37.0	36.2
IMPERIAL	2.8*	2.5*	4.5*	5.5*	9.0*	14.4
INYO	6.8*	-	20.6*	8.8*	9.6*	12.9*
KERN	9.0	8.2	11.8	11.5	17.6	20.3
KINGS	4.1*	6.5*	4.4*	5.5*	7.7*	10.8*
LAKE	7.1*	9.5*	15.3*	15.4*	39.8	41.3
LASSEN	3.4*	5.7*	10.0*	14.5*	22.6*	23.4*
LOS ANGELES	7.2	5.8	8.6	7.1	7.3	7.0
MADERA	6.6*	5.8*	8.0*	12.4*	9.3*	16.4
MARIN	2.9*	0.8*	5.8*	4.4*	12.1	11.5
MARIPOSA	0.9*	7.3*	14.7*	24.9*	15.4*	19.9*
MENDOCINO	5.5*	4.5*	13.1*	16.1*	18.5*	15.5*
MERCED	9.2	7.8	9.8	11.0	11.3	15.1
MODOC	3.1*	13.0*	17.5*	25.0*	36.8*	27.0*
MONO	-	-	2.8*	9.0*	5.4*	12.9*
MONTEREY	10.3	9.5	11.7	10.8	10.2	11.9
NAPA	0.8*	1.4*	4.9*	5.6*	10.5*	11.5*
NEVADA	1.8*	2.7*	8.8*	12.8*	13.7*	18.7
ORANGE	2.4	2.2	4.7	4.7	10.4	10.4
PLACER	1.6*	2.2*	7.5	7.5	10.0	8.9
PLUMAS	2.0*	3.0*	10.1*	12.2*	35.2*	28.3*
RIVERSIDE	4.5	4.4	7.4	7.6	11.6	13.3
SACRAMENTO	5.9	6.0	9.1	9.6	16.9	14.5
SAN BENITO	4.6*	5.5*	8.3*	5.5*	10.8*	8.2*
SAN BERNARDINO	6.2	6.4	9.5	9.0	10.9	9.5
SAN DIEGO	2.6	3.1	5.8	6.5	11.9	13.1
SAN FRANCISCO	6.3	5.3	6.3	5.0	20.0	16.4
SAN JOAQUIN	8.4	11.3	10.8	13.9	18.2	17.3
SAN LUIS OBISPO	1.8*	1.7*	7.3	8.8	13.1	14.6
SAN MATEO	3.3	2.8*	5.9	4.4	7.0	7.3
SANTA BARBARA	2.6*	2.3*	4.9	5.8	13.0	12.1
SANTA CLARA	2.4	3.2	4.1	4.6	6.7	7.6
SANTA CRUZ	3.3*	4.2*	6.5*	7.6	12.9	18.4
SHASTA	2.3*	5.9*	11.7	14.5	32.0	28.4
SIERRA	-	-	5.6*	8.5*	34.8*	12.9*
SISKIYOU	3.1*	3.3*	13.0*	16.3*	21.5*	20.5*
SOLANO	7.9	9.2	10.8	12.7	11.6	11.6
SONOMA	2.4*	2.3*	7.2	5.9	14.0	9.6
STANISLAUS	6.4	6.7	9.7	10.1	16.5	15.3
SUTTER	5.3*	5.2*	9.8*	10.7*	15.9*	15.6*
TEHAMA	5.4*	6.1*	11.9*	15.0*	11.1*	19.3*
TRINITY	-	16.7*	28.0*	26.5*	23.4*	22.8*
TULARE	8.5	8.3	11.1	12.5	7.6	9.1
TUOLUMNE	1.7*	2.0*	8.0*	10.6*	27.5*	22.7*
VENTURA	3.2	3.1	5.6	7.3	10.7	13.9
YOLO	2.1*	2.0*	4.6*	4.3*	8.1*	12.1
YUBA	4.4*	5.4*	8.3*	8.9*	5.7*	8.4*

- Rates and percentages are not calculated for zero events.  
\* Rates and percentages are deemed unreliable based on fewer than 20 data elements.  
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	
	2008-2010	2011-2013	2008-2010	2011-2013	2008-2010	2011-2013
CALIFORNIA	11.2	8.1	406.5	442.6	130.4	152.8
ALAMEDA	15.1	10.3	460.8	424.4	252.3	191.7
ALPINE	-	-	56.5*	147.9*	-	-
AMADOR	1.0*	4.0*	197.9	178.9	35.8*	81.3*
BUTTE	2.5*	1.4*	324.2	401.0	61.8	98.2
CALAVERAS	0.8*	-	95.1	165.8	21.5*	37.8*
COLUSA	-	1.9*	117.5	129.5	24.8*	40.6*
CONTRA COSTA	8.7	6.2	353.4	384.0	203.4	228.3
DEL NORTE	4.1*	-	156.4	132.8	30.8*	7.9*
EL DORADO	2.6*	1.7*	132.1	154.1	23.8*	30.6*
FRESNO	10.5	8.5	612.2	647.3	198.5	405.9
GLENN	1.5*	1.5*	187.7	269.4	51.7*	57.4*
HUMBOLDT	2.3*	1.7*	277.1	293.0	44.8*	183.3
IMPERIAL	8.7*	7.0*	375.2	357.3	51.6*	52.1*
INYO	4.2*	-	189.7	314.8	59.0*	11.4*
KERN	9.4	6.4	644.9	705.2	284.0	312.4
KINGS	3.6*	3.6*	352.2	382.1	91.0	99.5
LAKE	4.3*	1.8*	205.0	261.4	124.3*	220.9
LASSEN	1.1*	2.2*	148.6	199.1	15.1*	31.3*
LOS ANGELES	16.7	12.1	480.2	514.5	159.0	169.9
MADERA	5.0*	3.6*	457.5	439.6	151.8	190.8
MARIN	9.4	3.4*	219.5	195.9	56.9	64.3
MARIPOSA	-	8.5*	96.6*	119.7	39.3*	26.7*
MENDOCINO	4.1*	1.3*	271.8	348.9	56.4*	64.3*
MERCED	4.6*	2.4*	358.4	405.4	78.9	91.4
MODOC	-	-	65.8*	91.1*	-	23.9*
MONO	2.8*	-	191.8	177.7	25.9*	11.9*
MONTEREY	4.9*	4.5*	331.2	383.3	55.9	122.1
NAPA	5.0*	4.3*	181.3	231.2	37.9*	50.6*
NEVADA	1.2*	1.6*	133.8	170.4	20.7*	52.4*
ORANGE	7.3	5.8	276.0	273.5	46.1	59.7
PLACER	1.6*	1.3*	183.2	213.8	45.2	65.9
PLUMAS	1.9*	-	267.5	257.8	11.8*	24.7*
RIVERSIDE	8.8	6.4	302.3	397.9	81.1	108.6
SACRAMENTO	7.3	6.7	546.2	589.1	303.8	340.3
SAN BENITO	3.8*	0.7*	281.9	370.3	38.7*	119.9*
SAN BERNARDINO	7.4	6.2	414.1	543.7	148.7	203.7
SAN DIEGO	13.0	9.5	474.2	508.6	93.4	106.2
SAN FRANCISCO	48.6	30.4	535.3	599.3	125.4	99.4
SAN JOAQUIN	8.8	5.1	525.2	513.6	231.3	264.8
SAN LUIS OBISPO	3.7*	3.3*	245.1	328.0	29.3*	48.7
SAN MATEO	4.0	4.0	268.5	251.7	43.7	48.8
SANTA BARBARA	2.9*	3.0*	305.8	420.7	28.6	72.0
SANTA CLARA	8.5	5.3	313.8	307.9	67.0	83.3
SANTA CRUZ	3.1*	3.4*	265.2	325.6	37.6	83.8
SHASTA	1.6*	1.8*	237.6	327.2	77.6	253.7
SIERRA	-	-	133.6*	64.7*	79.6*	179.3*
SISKIYOU	2.6*	4.4*	172.0	177.9	55.3*	67.0*
SOLANO	8.3	4.8*	494.8	444.3	237.2	222.3
SONOMA	7.6	4.5*	213.6	298.6	33.1	70.4
STANISLAUS	6.3	3.5*	362.3	368.2	89.4	132.9
SUTTER	0.9*	1.7*	234.9	261.5	60.5*	105.2*
TEHAMA	1.9*	-	231.8	302.8	30.2*	123.3*
TRINITY	2.8*	2.8*	99.2*	94.0*	17.8*	18.4*
TULARE	2.6*	4.6*	379.8	458.9	70.9	85.0
TUOLUMNE	2.7*	3.5*	142.4	181.6	35.7*	120.9*
VENTURA	3.6	2.9*	272.6	306.7	41.8	83.1
YOLO	3.2*	2.3*	279.6	315.0	48.7	71.2
YUBA	1.2*	2.3*	289.2	295.8	68.3*	129.7*

- Rates are not calculated for zero events.  
\* Rates are deemed unreliable based on fewer than 20 data elements.  
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 RATES (THREE-YEAR AVERAGE)	
	REPORTED INCIDENCE OF MALE GONORRHEA AGES 15-44		REPORTED INCIDENCE OF TUBERCULOSIS		INFANT MORTALITY ALL RACE/ETHNIC GROUPS	
	2008-2010	2011-2013	2008-2010	2011-2013	2007-2009	2010-2012
CALIFORNIA	157.7	213.1	6.7	5.9	5.2	4.8
ALAMEDA	257.3	246.3	10.8	8.5	4.3	4.4
ALPINE	-	-	-	-	-	-
AMADOR	39.7 *	9.6 *	0.9 *	0.9 *	2.3 *	3.6 *
BUTTE	57.6	75.8	1.1 *	1.2 *	6.3 *	4.8 *
CALAVERAS	30.3 *	51.0 *	1.5 *	1.5 *	3.6 *	2.9 *
COLUSA	15.1 *	45.1 *	6.3 *	3.1 *	2.7 *	6.3 *
CONTRA COSTA	126.9	161.8	5.1	5.4	4.4	4.7
DEL NORTE	4.6 *	-	1.2 *	-	8.0 *	7.9 *
EL DORADO	20.5 *	38.6 *	1.1 *	1.1 *	4.8 *	3.1 *
FRESNO	145.5	277.6	7.1	4.2	6.3	7.0
GLENN	12.0 *	48.2 *	2.4 *	4.7 *	3.0 *	5.0 *
HUMBOLDT	33.9 *	144.5	0.7 *	2.0 *	4.4 *	7.3 *
IMPERIAL	37.8 *	43.4 *	15.6	17.7	4.3 *	3.9 *
INYO	22.5 *	31.4 *	1.8 *	-	7.4 *	1.6 *
KERN	183.9	312.6	5.1	4.0	7.2	5.8
KINGS	46.6	61.3	2.9 *	3.8 *	4.3 *	6.5 *
LAKE	83.8 *	137.5 *	2.1 *	2.6 *	6.0 *	6.4 *
LASSEN	-	28.1 *	1.0 *	2.0 *	6.6 *	6.5 *
LOS ANGELES	226.1	305.7	7.9	7.0	5.4	4.7
MADERA	43.4 *	124.9	6.9 *	5.9 *	4.5 *	6.2 *
MARIN	84.0	91.5	4.1 *	5.2 *	3.1 *	3.1 *
MARIPOSA	-	51.4 *	-	-	6.8 *	6.8 *
MENDOCINO	24.5 *	40.2 *	2.7 *	1.9 *	7.3 *	5.2 *
MERCED	52.6	76.6	2.9 *	4.7 *	6.4	5.5
MODOC	21.6 *	44.1 *	-	-	-	14.2 *
MONO	10.0 *	30.3 *	-	-	12.6 *	4.6 *
MONTEREY	50.6	105.5	4.9	4.7	4.7	4.9
NAPA	33.7 *	43.6 *	4.2 *	2.9 *	5.6 *	3.8 *
NEVADA	12.8 *	42.3 *	1.0 *	0.7 *	3.6 *	4.7 *
ORANGE	82.6	104.5	7.0	6.4	4.5	3.8
PLACER	41.5	67.8	1.2 *	1.7 *	4.7 *	4.3 *
PLUMAS	44.9 *	46.9 *	-	-	1.9 *	8.2 *
RIVERSIDE	71.8	108.2	3.4	2.7	5.5	5.0
SACRAMENTO	247.0	284.7	6.4	5.1	5.8	5.4
SAN BENITO	32.0 *	84.5 *	1.2 *	2.4 *	4.5 *	5.4 *
SAN BERNARDINO	106.9	169.2	3.5	2.7	6.5	6.0
SAN DIEGO	156.4	198.0	7.7	7.4	4.8	4.2
SAN FRANCISCO	657.5	865.0	13.8	13.4	4.3	3.1
SAN JOAQUIN	202.6	219.7	9.2	6.2	6.1	5.9
SAN LUIS OBISPO	27.7 *	54.1	1.0 *	1.6 *	3.3 *	6.4 *
SAN MATEO	87.4	108.5	8.8	7.7	3.7	2.7
SANTA BARBARA	42.0	58.5	6.8	5.5	4.8	4.0
SANTA CLARA	74.0	123.0	11.0	9.8	3.8	3.1
SANTA CRUZ	42.1	82.4	3.2 *	2.7 *	3.6 *	4.1 *
SHASTA	54.5 *	206.1	0.9 *	0.9 *	5.5 *	6.2 *
SIERRA	-	158.3 *	-	-	-	-
SISKIYOU	37.6 *	107.6 *	-	-	5.4 *	6.4 *
SOLANO	162.8	156.3	6.1	5.1	6.4	5.6
SONOMA	40.2	89.2	1.9 *	2.4 *	3.7	4.7
STANISLAUS	81.0	139.0	3.6 *	1.7 *	6.0	6.2
SUTTER	48.1 *	88.7 *	3.9 *	5.2 *	5.2 *	6.1 *
TEHAMA	31.6 *	155.7 *	1.6 *	0.5 *	7.6 *	6.6 *
TRINITY	15.8 *	16.2 *	-	-	8.3 *	2.8 *
TULARE	54.8	93.4	6.3	3.5 *	5.9	4.8
TUOLUMNE	15.4 *	62.0 *	0.6 *	-	2.2 *	5.8 *
VENTURA	44.6	83.4	5.9	3.8	5.3	4.6
YOLO	57.9	101.6	4.7 *	2.0 *	3.6 *	3.6 *
YUBA	34.7 *	89.2 *	2.8 *	3.7 *	5.2 *	4.6 *

- Rates and percentages are not calculated for zero events.

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

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		AGE-SPECIFIC BIRTH RATE		PERCENT	
	LOW BIRTHWEIGHT INFANTS (THREE-YEAR AVERAGE)		BIRTHS TO ADOLESCENT MOTHERS, 15 TO 19 YEARS OLD (THREE-YEAR AVERAGE)		FIRST TRIMESTER PRENATAL CARE (THREE-YEAR AVERAGE)	
	2008-2010	2011-2013	2008-2010	2011-2013	2008-2010	2011-2013
CALIFORNIA	6.8	6.8	35.2	25.5	82.9	83.6
ALAMEDA	7.1	7.5	24.3	17.0	86.6	89.8
ALPINE	-	15.8*	41.1*	39.3*	75.0*	50.0*
AMADOR	5.3*	7.6	20.5	20.7*	87.7	87.3
BUTTE	5.6	5.7	24.2	21.9	72.3	74.6
CALAVERAS	5.2*	4.6*	24.1	13.1*	79.5	80.0
COLUSA	6.2	6.1*	52.4	32.0	66.3	72.8
CONTRA COSTA	6.7	6.9	22.7	14.6	83.2	85.2
DEL NORTE	5.0*	4.8*	59.4	43.2	64.7	78.7
EL DORADO	6.5	6.1	17.9	11.2	78.1	79.4
FRESNO	7.6	7.8	53.6	41.5	88.5	88.0
GLENN	5.0	7.3	47.4	37.5	68.3	67.7
HUMBOLDT	5.5	5.2	26.0	23.6	79.6	78.5
IMPERIAL	6.3	5.3	61.9	46.5	56.7	53.4
INYO	9.0*	8.2*	36.0*	34.0*	79.8	78.0
KERN	7.1	7.1	62.6	49.0	75.2	76.2
KINGS	6.4	6.3	66.0	45.9	75.0	73.2
LAKE	5.8	6.7	46.2	36.4	66.9	69.7
LASSEN	6.4	7.5	35.7	32.0	73.4	78.4
LOS ANGELES	7.3	7.0	36.2	26.1	86.0	85.1
MADERA	6.4	6.3	60.6	45.0	74.2	73.5
MARIN	6.5	6.0	13.9	8.1	94.3	93.4
MARIPOSA	5.4*	7.0*	24.4*	25.3*	73.3	70.2
MENDOCINO	5.8	6.0	41.4	34.4	68.3	68.4
MERCED	6.8	6.7	48.1	38.0	64.1	63.4
MODOC	6.1*	6.6*	52.3*	14.5*	73.0	66.8
MONO	7.7*	7.3*	22.3*	25.4*	75.6	76.8
MONTEREY	5.8	5.8	53.3	39.2	74.6	72.8
NAPA	6.4	6.2	24.7	20.1	83.5	86.6
NEVADA	4.8	5.9	15.8	14.2	77.5	74.6
ORANGE	6.5	6.4	25.2	18.6	88.9	89.6
PLACER	5.5	5.7	15.2	10.0	84.7	84.4
PLUMAS	5.2*	7.5*	29.5*	16.6*	76.4	73.5
RIVERSIDE	6.6	6.5	37.1	25.5	83.8	84.5
SACRAMENTO	6.8	6.7	34.9	25.6	80.8	81.6
SAN BENITO	6.2	6.5	33.1	22.0	87.9	82.8
SAN BERNARDINO	7.1	7.3	45.0	31.8	82.1	83.4
SAN DIEGO	6.6	6.5	33.8	23.5	82.1	84.1
SAN FRANCISCO	7.0	7.1	15.7	11.0	86.8	88.9
SAN JOAQUIN	7.0	7.1	42.6	30.1	74.5	76.8
SAN LUIS OBISPO	5.7	6.0	17.6	14.1	78.7	80.1
SAN MATEO	6.7	6.6	21.5	13.4	89.1	90.3
SANTA BARBARA	5.9	6.2	34.0	26.6	72.7	76.0
SANTA CLARA	6.8	7.0	24.1	16.3	84.2	85.4
SANTA CRUZ	6.0	5.6	25.9	20.2	81.1	82.6
SHASTA	5.7	6.3	33.5	28.3	68.9	67.6
SIERRA	9.1*	3.6*	18.2*	8.7*	79.0*	73.6*
SISKIYOU	7.0	7.5	41.2	33.0	79.6	78.9
SOLANO	6.9	7.0	30.1	22.6	77.3	78.7
SONOMA	5.8	5.6	23.8	16.1	81.7	84.3
STANISLAUS	6.3	6.2	43.0	32.3	77.3	78.5
SUTTER	6.0	5.9	37.2	25.6	60.5	71.2
TEHAMA	5.4	5.9	50.3	31.9	65.7	70.9
TRINITY	5.4*	5.7*	36.8*	29.7*	59.5	55.3
TULARE	6.3	6.3	65.6	48.3	76.9	81.5
TUOLUMNE	4.1*	5.1	23.0	19.1	80.1	79.5
VENTURA	6.3	6.3	33.8	24.3	80.4	82.4
YOLO	5.2	6.0	17.6	13.9	78.6	82.7
YUBA	6.0	6.0	52.3	34.2	62.3	71.3

- Rates and percentages are not calculated for zero events.

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

Note: Age-specific birth rates are per 1,000 female population in the 15 to 19 year old age group.

**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	
	2008-2010	2011-2013
CALIFORNIA	79.4	79.2
ALAMEDA	78.9	78.2
ALPINE	50.0 *	72.2 *
AMADOR	88.9	86.1
BUTTE	75.0	77.6
CALAVERAS	79.6	80.4
COLUSA	77.2	79.2
CONTRA COSTA	75.8	77.1
DEL NORTE	77.5	80.9
EL DORADO	74.7	79.1
FRESNO	88.1	89.4
GLENN	78.2	77.4
HUMBOLDT	77.1	76.1
IMPERIAL	55.5	57.8
INYO	73.0	78.6
KERN	70.8	72.7
KINGS	73.3	70.6
LAKE	69.9	64.1
LASSEN	66.4	66.9
LOS ANGELES	83.5	81.2
MADERA	71.2	65.9
MARIN	86.0	88.5
MARIPOSA	70.8	64.0
MENDOCINO	74.6	75.8
MERCED	62.2	60.4
MODOC	59.6	61.3
MONO	81.5	80.7
MONTEREY	73.6	72.9
NAPA	75.5	78.4
NEVADA	76.2	76.8
ORANGE	87.5	88.6
PLACER	80.9	84.1
PLUMAS	70.9	67.0
RIVERSIDE	79.3	81.0
SACRAMENTO	77.7	78.2
SAN BENITO	81.1	77.8
SAN BERNARDINO	75.9	75.8
SAN DIEGO	74.1	74.2
SAN FRANCISCO	81.0	80.5
SAN JOAQUIN	71.0	72.1
SAN LUIS OBISPO	84.6	86.6
SAN MATEO	84.1	84.0
SANTA BARBARA	78.1	82.5
SANTA CLARA	79.6	77.0
SANTA CRUZ	82.7	84.5
SHASTA	74.1	74.5
SIERRA	69.4 *	77.4 *
SISKIYOU	76.2	78.4
SOLANO	68.1	67.5
SONOMA	75.1	76.5
STANISLAUS	71.0	69.7
SUTTER	74.4	81.4
TEHAMA	72.0	76.7
TRINITY	59.1	64.9
TULARE	76.7	81.7
TUOLUMNE	79.9	78.8
VENTURA	81.4	82.8
YOLO	77.4	81.2
YUBA	71.7	79.8

\* Rates and 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 2008 through 2013 and from the linked births-deaths in the Birth Cohort-Perinatal Outcome Files for the years 2007 through 2012, which 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, January 2013, 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, 2011-2013.

The [State of California, Department of Finance, Race/Hispanics Population with Age and Gender Detail, 2000–2010](#). Sacramento, California, September 2012, provided by the Demographic Research Unit, was used in the development of the age-adjusted rates, crude case rates, and age-specific birth rates for the previous period, 2008-2010.

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/2012.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 119 non-traffic deaths during 2011 through 2013 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, 2014.

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.

**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 Birth Cohort-Perinatal Outcome File, the file differs 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](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.

**Natality** (Tables 25-27B): The natality data were obtained from Birth Statistical Master Files for 2010 through 2012. 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): 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) (12/08)].

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 or missing maternal county of residence data.

For additional information on the methods used to compute this indicator, visit the CDPH Breastfeeding Data web page at:  
<http://www.cdph.ca.gov/data/statistics/Pages/InHospitalBreastfeedingInitiationData.aspx>

Caution should be taken when analyzing breastfeeding initiation data alone because breastfeeding duration is not taken into consideration. Examination of breastfeeding initiation data along with duration data is recommended to thoroughly measure the effects of breastfeeding. Breastfeeding duration data are not presented in this report because county level duration data are not available.

As in *Profiles 2014*, 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 the National Center for Health Statistics 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 the National Center for Health Statistics (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., 2011-2013), divided by the population in the middle year (e.g., 2012).

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 58<sup>th</sup> 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 50<sup>th</sup> percentile of the rates/percentages among those counties.

## 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<sub>a</sub> = Population Size in Same Age Group
- B = Base (100,000)
- $W_a$  = Age-Specific Weight (Standard Population Proportion)
- SE<sub>x</sub> = Standard Error of a Crude Death Rate
- RSE<sub>x</sub> = Relative Standard Error of a Crude Death Rate
- SE<sub>y</sub> = Standard Error of an Age-Adjusted Death Rate
- RSE<sub>y</sub> = Relative Standard Error of an Age-Adjusted Death Rate
- CL = Confidence Limit

### 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, 2011 through 2013 for Alameda County.

ALAMEDA COUNTY					
AGE GROUPS	2011-2013 DEATHS (AVERAGE) (A)	2012 POPULATION (B)	AGE-SPECIFIC RATE/100,000 (C)	2000 U.S. STANDARD POPULATION PROPORTIONS (D)	WEIGHTED RATE FACTORS (E)
TOTAL	9,383.0	1,540,790			
Unknown	2.7				
<1	81.3	20,641	394.0	0.013818	5.4
1-4	12.3	77,238	16.0	0.055317	0.9
5-14	17.3	189,184	9.2	0.145565	1.3
15-24	115.3	207,143	55.7	0.138646	7.7
25-34	164.7	230,133	71.6	0.135573	9.7
35-44	260.0	229,203	113.4	0.162613	18.4
45-54	664.7	221,343	300.3	0.134834	40.5
55-64	1,288.3	184,695	697.5	0.087247	60.9
65-74	1,491.7	102,403	1,456.7	0.066037	96.2
75-84	2,063.7	52,809	3,907.8	0.044842	175.2
>84	3,221.0	25,998	12,389.3	0.015508	192.1
<b>AGE-ADJUSTED RATE.....</b>					<b>608.4</b>

- 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 608.4 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 2015**

MORTALITY								
HP 2020 OBJECTIVE	HEALTH STATUS INDICATOR	2011-2013 DEATHS (AVERAGE)	CRUDE DEATH RATE	AGE-ADJUSTED DEATH RATE	95% CONFIDENCE LIMITS LOWER UPPER		NATIONAL OBJECTIVE	AGE-ADJUSTED DEATH RATE PREVIOUS
	ALL CAUSES	243,195.0	642.9	641.1	638.5	643.7	a	652.2
C-1	ALL CANCERS	57,082.3	150.9	151.0	149.8	152.3	161.4	156.2
C-5	COLORECTAL CANCER	5,301.3	14.0	13.9	13.5	14.3	14.5	14.6
C-2	LUNG CANCER	12,520.7	33.1	33.6	33.0	34.2	45.5	37.1
C-3	FEMALE BREAST CANCER	4,357.0	22.9	20.7	20.1	21.3	20.7	21.4
C-7	PROSTATE CANCER	3,050.0	16.2	20.2	19.5	20.9	21.8	21.7
	DIABETES	7,842.7	20.7	20.8	20.3	21.3	b	20.1
	ALZHEIMER'S DISEASE	11,676.3	30.9	30.8	30.3	31.4	a	28.9
HDS-2	CORONARY HEART DISEASE	39,455.0	104.3	103.8	102.7	104.8	103.4	114.2
HDS-3	CEREBROVASCULAR DISEASE (STROKE)	13,492.0	35.7	35.9	35.3	36.5	34.8	38.5
	INFLUENZA/PNEUMONIA	6,170.7	16.3	16.3	15.9	16.7	a	17.7
	CHRONIC LOWER RESPIRATORY DISEASE	13,257.7	35.0	35.9	35.3	36.5	a	37.6
SA-11	CHRONIC LIVER DISEASE AND CIRRHOSIS	4,652.7	12.3	11.7	11.4	12.0	8.2	11.2
IVP-11	ACCIDENTS (UNINTENTIONAL INJURIES)	10,757.7	28.4	27.9	27.3	28.4	36.4	28.1
IVP-13.1	MOTOR VEHICLE TRAFFIC CRASHES	2,948.7	7.8	7.6	7.4	7.9	12.4	8.1
MHMD-1	SUICIDE	3,945.0	10.4	10.2	9.9	10.5	10.2	10.1
IVP-29	HOMICIDE	1,972.0	5.2	5.1	4.9	5.4	5.5	5.5
IVP-30	FIREARM-RELATED DEATHS	3,005.0	7.9	7.8	7.5	8.1	9.3	8.0
SA-12	DRUG-INDUCED DEATHS	4,356.3	11.5	11.1	10.8	11.4	11.3	11.0

MORBIDITY								
HP 2020 OBJECTIVE	HEALTH STATUS INDICATOR	2011-2013 CASES (AVERAGE)	CRUDE CASE RATE	95% CONFIDENCE LIMITS LOWER UPPER		NATIONAL OBJECTIVE	CRUDE CASE RATE PREVIOUS	
HIV-4	AIDS INCIDENCE (AGE 13 AND OVER)	2,542.3	8.1	7.8	8.4	12.4	11.2	
	CHLAMYDIA INCIDENCE	167,428.3	442.6	440.5	444.7	c	406.5	
STD-6.1	GONORRHEA INCIDENCE FEMALE AGE 15-44	12,095.7	152.8	150.0	155.5	251.9	130.4	
STD-6.2	GONORRHEA INCIDENCE MALE AGE 15-44	17,618.0	213.1	210.0	216.3	194.8	157.7	
IID-29	TUBERCULOSIS INCIDENCE	2,227.0	5.9	5.6	6.1	1.0	6.7	

INFANT MORTALITY							
HP 2020 OBJECTIVE	HEALTH STATUS INDICATOR	2010-2012 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	2401.7	4.8	4.6	4.9	6.0	5.2
MICH-1.3	INFANT MORTALITY: ASIAN/PI	237.7	3.6	3.2	4.1	6.0	4.5
MICH-1.3	INFANT MORTALITY: BLACK	266.3	9.8	8.6	11.0	6.0	11.8
MICH-1.3	INFANT MORTALITY: HISPANIC	1172.7	4.7	4.4	4.9	6.0	5.0
MICH-1.3	INFANT MORTALITY: WHITE	541.3	3.9	3.6	4.2	6.0	4.5

NATALITY							
HP 2020 OBJECTIVE	HEALTH STATUS INDICATOR	2011-2013 BIRTHS (AVERAGE)	PERCENT	95% CONFIDENCE LIMITS LOWER UPPER		NATIONAL OBJECTIVE	PERCENT PREVIOUS
MICH-8.1	LOW BIRTHWEIGHT INFANTS	33,846.0	6.8	6.7	6.8	7.8	6.8
MICH-10.1	FIRST TRIMESTER PRENATAL CARE	409,642.3	83.6	83.4	83.9	77.9	82.9
MICH-10.2	ADEQUATE/ADEQUATE PLUS PRENATAL CARE	384,382.7	79.2	79.0	79.5	77.6	79.4

BIRTHS TO MOTHERS AGED 15-19							
HP 2020 OBJECTIVE	HEALTH STATUS INDICATOR	2011-2013 BIRTHS (AVERAGE)	AGE-SPECIFIC BIRTH RATE	95% CONFIDENCE LIMITS LOWER UPPER		NATIONAL OBJECTIVE	AGE-SPECIFIC BIRTH RATE PREVIOUS
	BIRTHS TO MOTHERS AGED 15-19	34,582.7	25.5	25.2	25.7	a	35.2

BREASTFEEDING							
HP 2020 OBJECTIVE	HEALTH STATUS INDICATOR	2011-2013 BIRTHS (AVERAGE)	PERCENT	95% CONFIDENCE LIMITS LOWER UPPER		NATIONAL OBJECTIVE	PERCENT PREVIOUS
MICH-21.1	BREASTFEEDING INITIATION	399,224	92.3	92.0	92.6	81.9	d

CENSUS							
HP 2020 OBJECTIVE	HEALTH STATUS INDICATOR	2012 NUMBER	PERCENT	95% CONFIDENCE LIMITS LOWER UPPER		NATIONAL OBJECTIVE	PERCENT PREVIOUS
	PERSONS UNDER 18 IN POVERTY	2,164,587	23.6	23.6	23.6	a	22.6

**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. Previous refers to previous period rates. These periods vary by type of rate: Mortality 2008-2010, Morbidity 2008-2010, Infant Mortality 2007-2009, Natality 2008-2010, Census 2011.

**Sources** State of California, Department of Finance, Race/Hispanics Population with Age and Gender Detail, 2000-2010. Sacramento, California, September 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, January 2013.  
 California Department of Public Health, 2011-2013 Death Statistical Master Files.  
 California Department of Public Health, Office of AIDS, HIV/AIDS Surveillance Section, data as of 12/31/2014.  
 California Department of Public Health, STD Control Branch, Data Request, October 2014. Chlamydia data.  
 California Department of Public Health, STD Control Branch, Data Request, September 2014. Gonorrhea data.  
 California Department of Public Health, Tuberculosis Control Branch, Report on Tuberculosis in California, 2013. Richmond, CA, July 2014, Page 27.  
 California Department of Public Health, 2010-2012 Birth Cohort-Perinatal Outcome Files.  
 California Department of Public Health, 2011-2013 Birth Statistical Master Files.  
 California Department of Public Health, Center for Family Health, Genetic Disease Screening Program, Newborn Screening Data, 2011-2013.  
 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/saie/data/statecounty/data/2012.html>. Accessed October 2014.

## 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.](#)