

COUNTY HEALTH STATUS PROFILES 2018



CALIFORNIA DEPARTMENT OF PUBLIC HEALTH AND
CALIFORNIA CONFERENCE OF LOCAL HEALTH OFFICERS
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COUNTY HEALTH STATUS PROFILES 2018

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

Denise Gilson CDPH, Sexually Transmitted Disease Control Branch provided chlamydia, male/female gonorrhea case incidence data, congenital syphilis, as well as reported incidence of primary and secondary syphilis among males and females.

Saul Kanowitz, MPH and **Janice Westenhause** CDPH, Tuberculosis Control Branch provided tuberculosis case incidence data.

Sunitha H. Gurusinghe, PhD and **Deanna Sykes, PhD** CDPH, Office of AIDS provided HIV and AIDS infection data.

Jan Christensen, Research Program Specialist I, 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.

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Thank you to John Rudzinkas, former lead in the development and publication of *County Health Status Profiles 2011 – 2017*. His expertise and guidance as well as his exquisite landscape photography made Mr. Rudzinkas instrumental and invaluable for a successful publication of *Profiles*.

Cover photography by **John Rudzinkas**. Mono Lake, California.



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Dear Colleague:

We are pleased to present **California's County Health Status Profiles 2018 (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 healthy behaviors for all. This report is an important tool to measure progress toward those goals and to evaluate the health of Californians.

Profiles 2018 includes three new measures, HIV/AIDS replaces AIDS, congenital syphilis, and primary and secondary syphilis (male/female), along with the annual set of health indicators. It also applies the California Health and Human Services Data De-Identification Guidelines for the first time to each dataset of health indicators. The Profiles' data years run from 2010-2016. Additionally, Profiles are updated each year and have been published annually for the State of California by CDPH and the California Conference of Local Health Officers since 1993.

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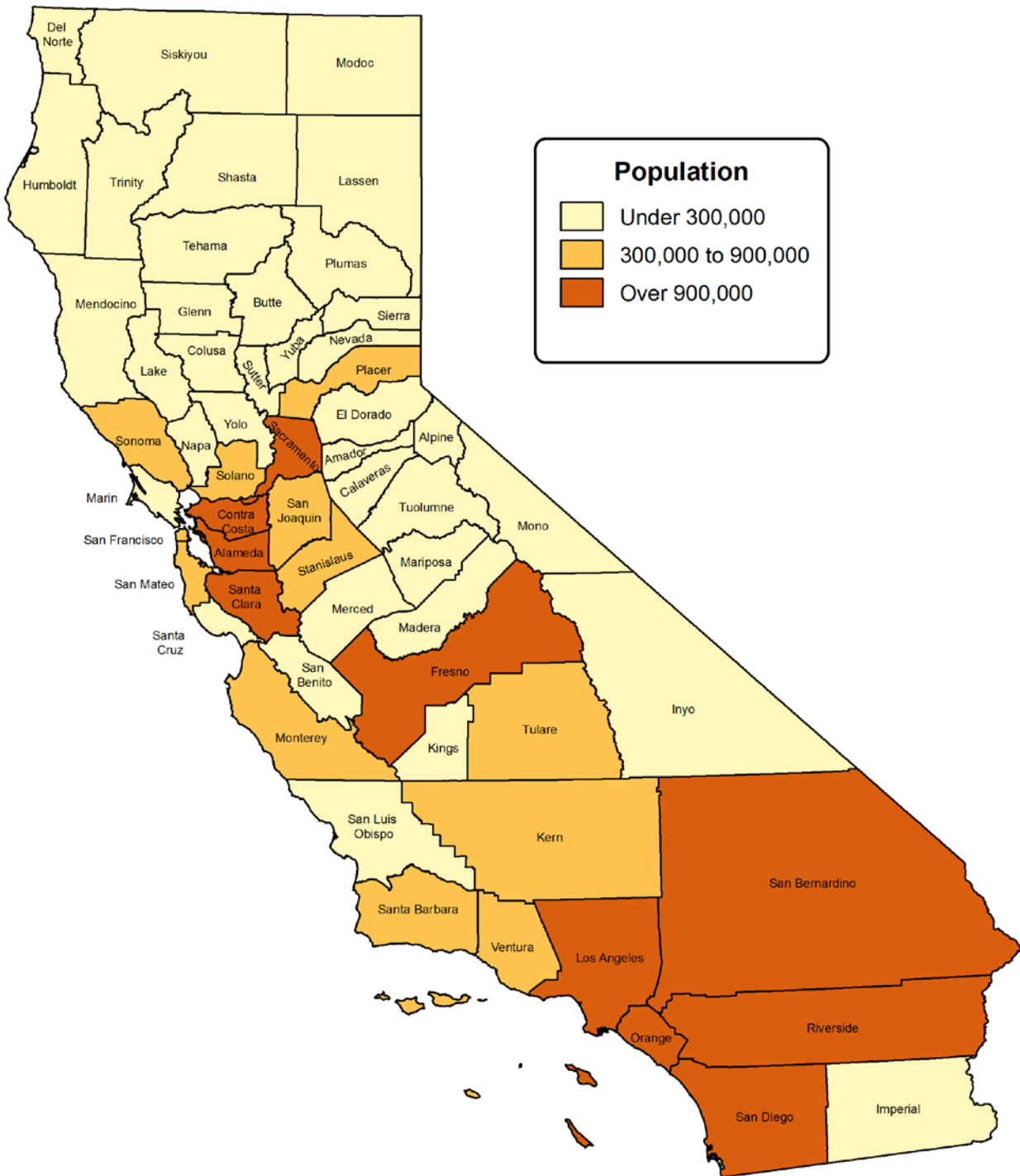
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CALIFORNIA COUNTIES

2015 STATEWIDE POPULATION: 39,059,809



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, June 2017.

INTRODUCTION

County Health Status Profiles 2018 (Profiles 2018) is an annually published report 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. For additional information on the HP 2020 recommendations, visit the [Centers for Disease Control and Prevention](#).

In keeping with the goal of using national standards, causes of death were coded using the International Classification of Diseases, Tenth Revision (ICD-10). Age-adjusted rates were calculated using the year 2000 US standard population weights to facilitate meaningful comparison of vital statistics data rates over time and between groups.

Profiles 2018 contains vital statistics that display the population arrays, event counts, crude case rates, age-adjusted death rates and/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 82 to 92). Data limitations and qualifications are also provided in the Technical Notes section to assist the reader with interpretation and comparison of the data. Additional information on sources used in the analysis and procedures used to calculate events involving small numbers, small area analysis, and age-adjusted death rates are provided in the Bibliography located at the conclusion of this report.

The tables also identify the confidence intervals for the upper and lower 95 percent. This provides a means to assess the degree of stability for the estimated rates and percentages. Confidence intervals based on 100 or more events are calculated using a normal distribution. In Cases where greater than zero and fewer than 100 events occur, a gamma distribution is applied to estimate the confidence intervals. For additional information on the use of gamma distributions, please refer to [National Vital Statistics Report, Volume 63, No. 9, August 31, 2015](#).

Vital statistics rates and percentages are subject to random variation, which are inversely related to the number of events/occurrences (e.g., deaths) used to calculate the rates and percentages. Dashes (-) indicate the percentages and confidence levels that are not calculated due to zero events. Asterisks (*) indicate rates that are calculated from fewer than 20 events are considered unreliable. The hash symbols (#) indicate the rates, percentages and confidence levels that are masked due to data de-identification guidelines (DDG) standards; see the Technical Notes.

Thematic maps of California's 58 counties are created for each table (excluding Table 30), providing additional visual comparison of rates or percentages from the table along with the customary health status indicator highlights.

California Department of Finance, Demographic Research Unit provided the population figures stratified by county, age, and gender, with the exceptions of Table 23C, 24A, 25, 27A and 27B, where the occurrences of live births were used. Rates/percentages developed for the current period (2014-2016) and previous period (2011-2013) used 2015 and 2012 population estimates, respectively, from the *State of California, Department of Finance*, as of June 20, 2017.

The following California Department of Public Health (CDPH) offices provided data for this annual report: Vital Records, Communicable Disease Control, Genetic Disease Screening Program, Maternal, Child and Adolescent Health Program, and the Office of AIDS.

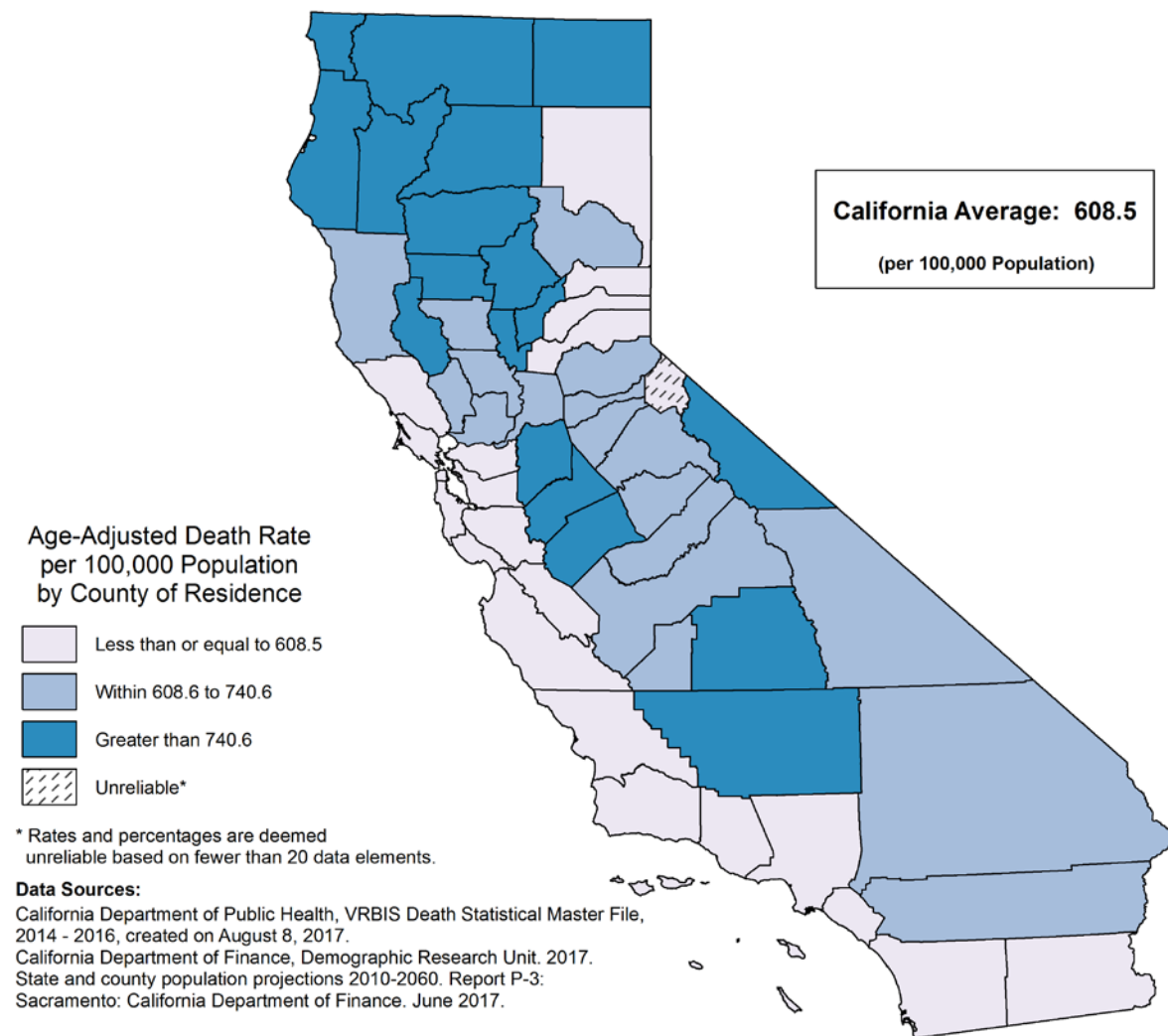
The estimates of persons under age 18 in poverty for 2014 were obtained from the [U.S. Census Bureau](#).

To access electronic copies of this report and previous reports (1999 to current), visit the [CDPH, Center for Health Statistics](#) page.

If you have questions about this report, or desire additional state or county health status data and statistics, please contact:

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DEATHS DUE TO ALL CAUSES, 2014-2016



The crude death rate from deaths due to all causes for California was 651.9 deaths per 100,000 population, a risk of dying equivalent to approximately one death for every 153.4 persons. The crude death rate for California was based on a 2014 through 2016 three-year average number of deaths equaling 254,626.3 and a population count of 39,059,809 as of July 1, 2015. Among counties with reliable rates, the crude death rate ranged from 1,299.6 in Siskiyou County to 335.3 in Mono County, a factor of 3.9 to 1.

The age-adjusted death rate from deaths due to all causes for California during the 2014 through 2016 three-year period was 608.5 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 917.3 in Lake County to 474.9 in Marin County.

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

The California age-adjusted death rate from deaths due to all causes for the 2011-2013 period was 633.5 per 100,000 population.

**TABLE 1
DEATHS DUE TO ALL CAUSES
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE
CALIFORNIA COUNTIES, 2014 – 2016**

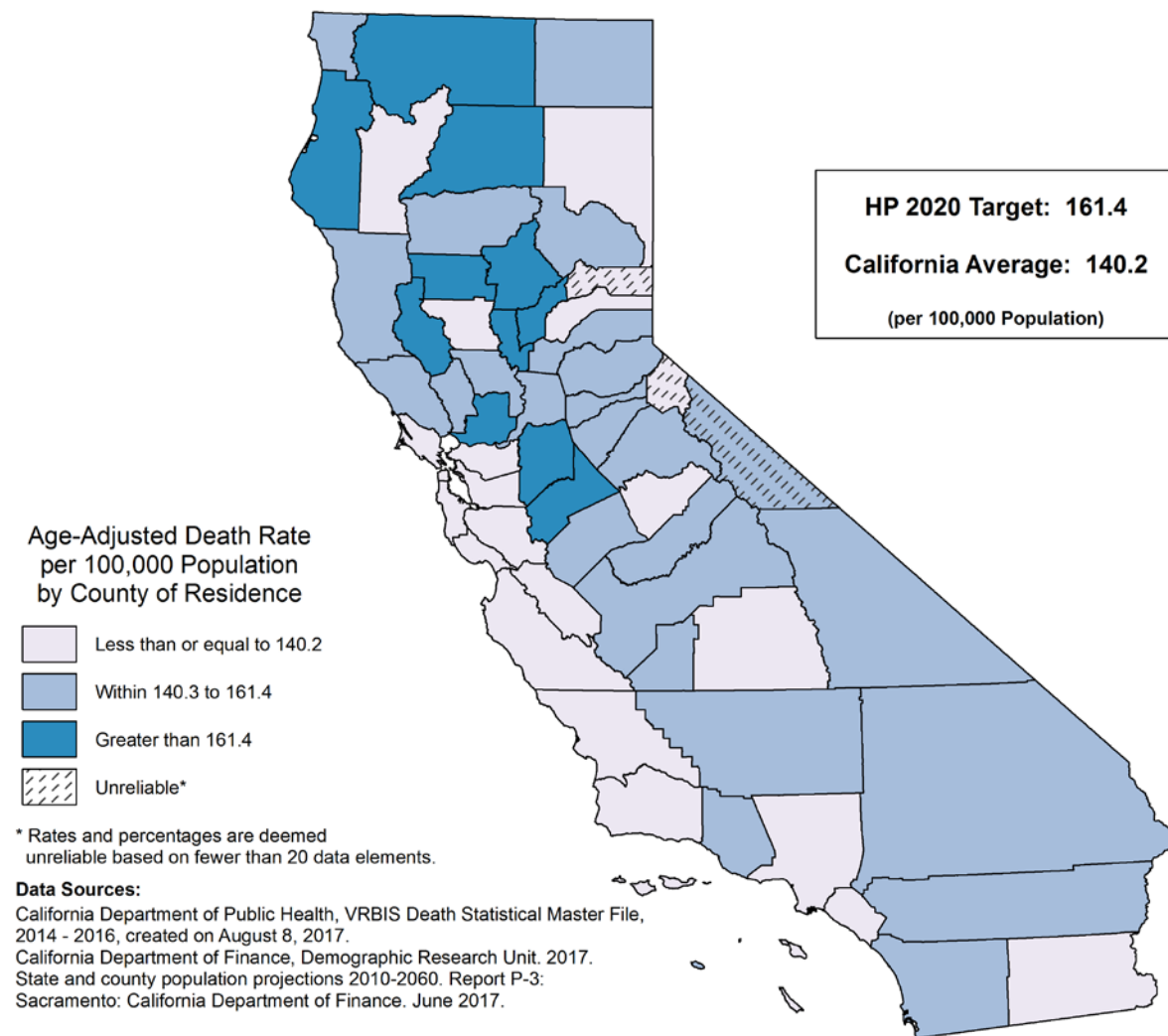
RANK ORDER	COUNTY OF RESIDENCE	2015 POPULATION	2014-2016 DEATHS (AVERAGE)	CRUDE DEATH RATE	AGE-ADJUSTED DEATH RATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: NOT APPLICABLE							
1	MARIN	262,105	1,905.0	726.8	474.9	452.9	497.0
2	SAN MATEO	764,379	4,681.0	612.4	483.1	469.0	497.2
3	SANTA CLARA	1,915,102	9,932.3	518.6	485.7	476.1	495.4
4	SAN FRANCISCO	863,108	5,626.3	651.9	507.9	494.4	521.5
5	ALPINE	1,157	8.0	691.4 *	535.5 *	231.2	1055.2
6	ORANGE	3,161,218	19,070.7	603.3	545.7	537.9	553.5
7	SAN BENITO	57,584	306.7	532.6	556.1	492.5	619.8
8	MONTEREY	436,242	2,508.7	575.1	558.4	536.2	580.7
9	ALAMEDA	1,619,679	9,682.0	597.8	568.9	557.4	580.4
10	LOS ANGELES	10,185,487	61,076.0	599.6	572.6	568.0	577.2
11	SIERRA	3,147	31.7	1,006.2	582.0	397.2	823.1
12	SAN DIEGO	3,275,084	20,710.3	632.4	585.5	577.4	593.6
13	CONTRA COSTA	1,116,882	7,618.7	682.1	589.9	576.4	603.4
14	VENTURA	852,013	5,570.7	653.8	589.9	574.2	605.6
15	SANTA BARBARA	444,900	3,079.7	692.2	592.4	571.0	613.7
16	LASSEN	30,969	206.7	667.3	593.5	510.5	676.6
17	IMPERIAL	185,328	1,067.0	575.7	594.4	558.4	630.4
18	SANTA CRUZ	274,697	1,742.0	634.2	596.5	567.6	625.4
19	NEVADA	98,190	980.0	998.1	596.7	556.4	637.0
20	PLACER	370,738	3,101.0	836.4	599.8	578.3	621.4
21	SAN LUIS OBISPO	276,844	2,337.0	844.2	602.1	576.7	627.4
22	SONOMA	501,182	4,040.3	806.2	603.7	584.6	622.9
	CALIFORNIA	39,059,809	254,626.3	651.9	608.5	606.1	610.9
23	EL DORADO	183,140	1,498.0	818.0	622.9	590.2	655.5
24	COLUSA	22,271	145.7	654.1	627.0	523.1	731.0
25	RIVERSIDE	2,329,256	15,783.0	677.6	631.5	621.6	641.4
26	NAPA	141,546	1,209.0	854.1	640.2	603.5	677.0
27	CALAVERAS	44,899	489.7	1,090.6	645.2	582.7	707.7
28	MARIPOSA	18,088	193.7	1,070.7	647.8	546.4	749.1
29	YOLO	212,686	1,270.3	597.3	649.1	612.9	685.2
30	AMADOR	37,314	436.7	1,170.2	660.0	593.4	726.5
31	INYO	18,640	197.0	1,056.9	671.4	571.1	771.6
32	MADERA	154,956	1,053.0	679.5	671.8	630.9	712.8
33	PLUMAS	19,586	212.0	1,082.4	675.2	574.0	776.4
34	KINGS	149,702	793.7	530.2	675.6	627.9	723.3
35	SOLANO	429,267	3,172.7	739.1	678.2	654.2	702.2
36	TUOLUMNE	54,525	659.7	1,209.8	710.7	652.5	768.9
37	FRESNO	979,357	6,550.0	668.8	723.9	706.1	741.6
38	SACRAMENTO	1,489,952	11,180.0	750.4	724.5	710.9	738.1
39	MENDOCINO	88,429	856.0	968.0	734.8	683.5	786.1
40	SAN BERNARDINO	2,129,851	13,464.3	632.2	740.3	727.6	753.1
41	TRINITY	13,562	160.0	1,179.8	740.9	612.2	869.7
42	TULARE	463,291	2,973.3	641.8	741.5	714.5	768.4
43	MERCED	269,729	1,709.3	633.7	746.6	710.8	782.5
44	SUTTER	97,618	810.7	830.4	757.5	704.9	810.0
45	TEHAMA	63,970	631.3	986.9	763.5	702.6	824.3
46	BUTTE	224,363	2,249.3	1,002.5	765.3	732.5	798.2
47	MODOC	9,507	113.0	1,188.6	778.0	622.3	933.7
48	SAN JOAQUIN	727,547	5,395.3	741.6	784.1	762.9	805.3
49	GLENN	28,960	262.0	904.7	792.1	694.9	889.3
50	STANISLAUS	538,372	4,149.7	770.8	793.2	768.7	817.6
51	MONO	13,818	46.3	335.3	795.4	583.1	1059.9
52	KERN	883,327	5,834.3	660.5	795.6	774.8	816.4
53	HUMBOLDT	135,090	1,313.3	972.2	815.8	770.2	861.3
54	SISKIYOU	44,500	578.3	1,299.6	827.0	754.5	899.6
55	DEL NORTE	27,119	286.7	1,057.1	852.9	752.0	953.7
56	YUBA	75,579	605.7	801.4	885.1	813.3	956.9
57	SHASTA	178,777	2,218.3	1,240.8	898.9	860.3	937.5
58	LAKE	65,180	843.3	1,293.9	917.3	851.9	982.7

* 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, VRBIS Death Statistical Master File Plus 2014 - 2016, created on August 8, 2017. 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, June 2017.

DEATHS DUE TO ALL CANCERS, 2014-2016



The crude death rate from cancer for California was 150.9 deaths per 100,000 population, a risk of dying from cancer equivalent to approximately one death for every 662.8 persons. The crude death rate for California was based on a 2014 through 2016 three-year average number of deaths equaling 58,930.7 and a population count of 39,059,809 as of July 1, 2015. Among counties with reliable rates, the crude death rate ranged from 292.5 in Lake County to 113.5 in San Benito County, a factor of 2.6 to 1.

The age-adjusted death rate from cancer for California during the 2014 through 2016 three-year period was 140.2 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 195.0 in Yuba County to 108.9 in Lassen County.

Forty-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 cancer per 100,000 population. An additional three counties with unreliable rates met the objective.

The California age-adjusted death rate from cancer for the 2011-2013 period was 149.0 per 100,000 population.

TABLE 2
DEATHS DUE TO ALL CANCERS
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE
CALIFORNIA COUNTIES, 2014-2016

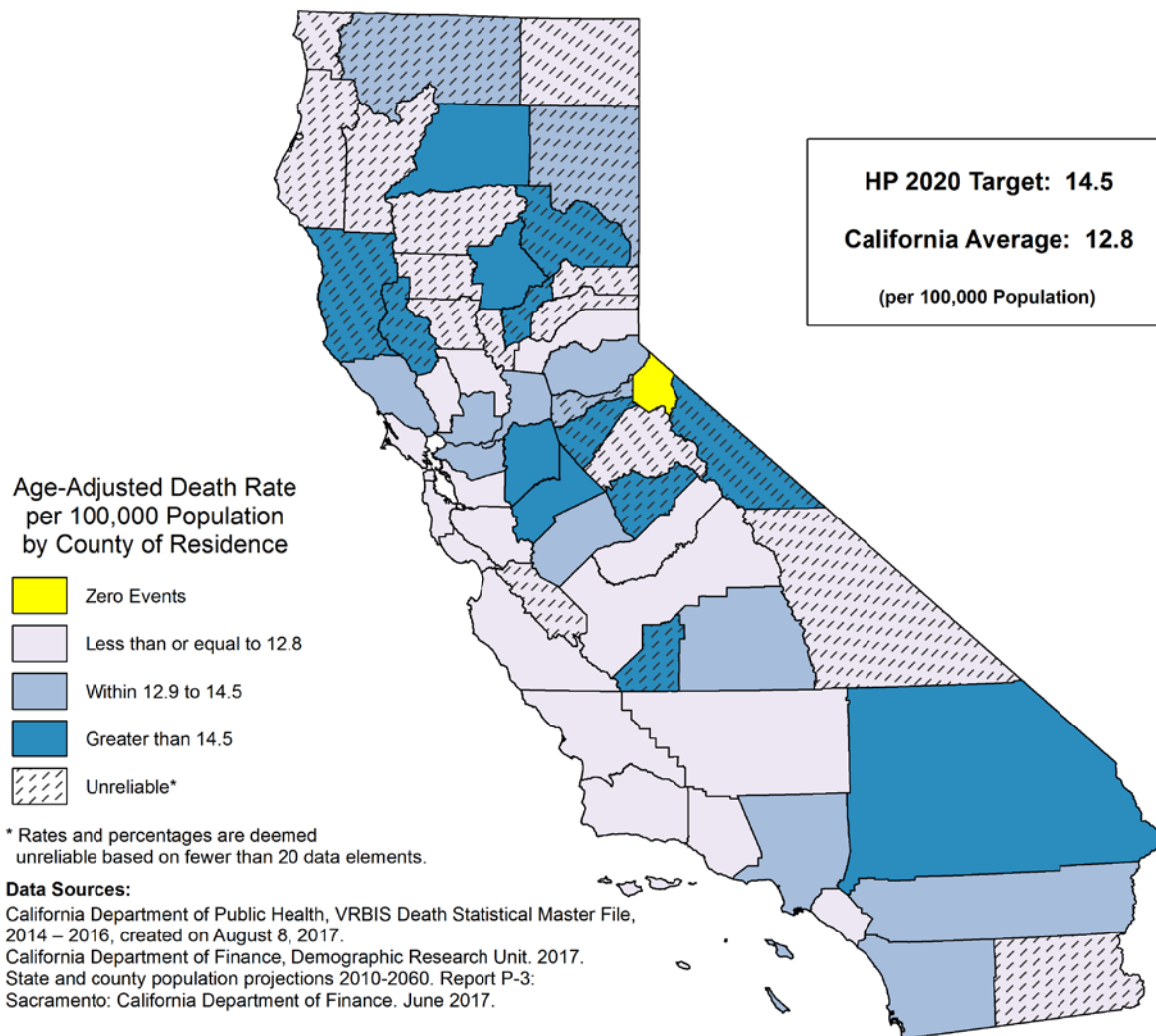
RANK ORDER	COUNTY OF RESIDENCE	2015 POPULATION	2014-2016 DEATHS (AVERAGE)	CRUDE DEATH RATE	AGE-ADJUSTED DEATH RATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
1	SIERRA	3,147	6.3	201.2 *	103.6 *	39.3	221.1
2	LASSEN	30,969	40.0	129.2	108.9	77.8	148.3
3	ALPINE	1,157	2.0	172.9 *	108.9 *	13.2	393.4
4	SAN BENITO	57,584	65.3	113.5	113.0	87.2	143.9
5	MARIN	262,105	465.3	177.5	116.0	105.2	126.9
6	IMPERIAL	185,328	214.0	115.5	120.1	103.9	136.4
7	SANTA CLARA	1,915,102	2,451.7	128.0	120.2	115.4	125.0
8	SAN MATEO	764,379	1,146.0	149.9	120.3	113.2	127.3
9	MONTEREY	436,242	563.7	129.2	126.7	116.1	137.4
10	SAN FRANCISCO	863,108	1,379.0	159.8	128.8	121.9	135.7
11	COLUSA	22,271	31.0	139.2	128.9	87.6	183.0
12	SANTA CRUZ	274,697	396.0	144.2	130.9	117.5	144.3
13	ORANGE	3,161,218	4,577.3	144.8	131.0	127.2	134.9
14	TRINITY	13,562	33.3	245.8	131.6	90.8	184.5
15	NEVADA	98,190	226.3	230.5	131.7	113.5	149.9
16	MARIPOSA	18,088	42.0	232.2	133.1	96.0	180.0
17	ALAMEDA	1,619,679	2,316.0	143.0	134.5	129.0	140.1
18	LOS ANGELES	10,185,487	14,358.7	141.0	134.8	132.5	137.0
19	SAN LUIS OBISPO	276,844	531.0	191.8	135.5	123.6	147.4
20	SANTA BARBARA	444,900	686.7	154.3	136.7	126.3	147.1
21	TULARE	463,291	564.3	121.8	138.4	126.8	149.9
22	CONTRA COSTA	1,116,882	1,813.7	162.4	138.9	132.4	145.5
	CALIFORNIA	39,059,809	58,930.7	150.9	140.2	139.0	141.3
23	MADERA	154,956	225.7	145.6	140.6	122.1	159.2
24	YOLO	212,686	277.0	130.2	141.5	124.6	158.4
25	PLUMAS	19,586	49.0	250.2	141.7	104.8	187.3
26	FRESNO	979,357	1,280.3	130.7	141.9	134.0	149.8
27	SONOMA	501,182	963.0	192.1	142.3	133.1	151.6
28	SAN DIEGO	3,275,084	5,011.3	153.0	142.8	138.7	146.8
29	VENTURA	852,013	1,362.3	159.9	143.3	135.5	151.0
30	EL DORADO	183,140	372.7	203.5	144.7	129.5	159.8
31	PLACER	370,738	756.7	204.1	144.9	134.4	155.4
32	CALAVERAS	44,899	122.3	272.5	145.1	118.1	172.1
33	TUOLUMNE	54,525	142.0	260.4	145.2	120.4	170.1
34	RIVERSIDE	2,329,256	3,679.0	157.9	146.2	141.5	151.0
35	TEHAMA	63,970	129.3	202.2	149.4	123.2	175.5
36	AMADOR	37,314	103.3	276.9	149.6	119.4	179.9
37	KINGS	149,702	181.7	121.4	152.2	129.7	174.6
38	INYO	18,640	46.0	246.8	152.9	111.9	203.9
39	KERN	883,327	1,152.7	130.5	153.4	144.4	162.5
40	MODOC	9,507	24.7	259.5	155.5	100.3	230.1
41	NAPA	141,546	294.3	207.9	155.6	137.5	173.7
42	SAN BERNARDINO	2,129,851	2,958.7	138.9	157.6	151.8	163.4
43	MONO	13,818	10.7	77.2 *	157.8 *	77.8	284.8
44	DEL NORTE	27,119	56.3	207.7	157.9	119.4	204.9
45	MERCED	269,729	364.0	135.0	158.6	142.1	175.1
46	MENDOCINO	88,429	199.7	225.8	159.9	136.8	183.0
47	SACRAMENTO	1,489,952	2,495.3	167.5	160.2	153.8	166.6
HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: C-1					161.4		
48	SISKIYOU	44,500	121.0	271.9	161.7	131.3	192.2
49	BUTTE	224,363	470.0	209.5	162.2	147.0	177.3
50	SAN JOAQUIN	727,547	1,136.0	156.1	162.6	153.0	172.2
51	SOLANO	429,267	796.3	185.5	162.8	151.3	174.4
52	SUTTER	97,618	180.0	184.4	163.8	139.7	187.9
53	HUMBOLDT	135,090	278.3	206.0	164.9	144.9	184.9
54	GLENN	28,960	56.7	195.7	168.7	127.7	218.7
55	STANISLAUS	538,372	904.3	168.0	171.5	160.2	182.9
56	SHASTA	178,777	491.7	275.0	191.3	173.9	208.6
57	LAKE	65,180	190.7	292.5	192.7	164.2	221.2
58	YUBA	75,579	138.0	182.6	195.0	161.8	228.1

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

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

Sources: California Department of Public Health, VRBIS Death Statistical Master File Plus 2014 - 2016, created on August 8, 2017. 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, June 2017.

DEATHS DUE TO COLORECTAL CANCER, 2014-2016



The crude death rate from colorectal cancer for California was 13.8 deaths per 100,000 population, a risk of dying from colorectal cancer equivalent to approximately one death for every 7,240.9 persons. The crude death rate for California was based on a 2014 through 2016 three-year average number of deaths equaling 5,394.3 and a population count of 39,059,809 as of July 1, 2015. Among counties with reliable rates, the crude death rate ranged from 21.3 in Shasta County to 9.4 in Yolo County, a factor of 2.3 to 1.

The age-adjusted death rate from colorectal cancer for California during the 2014 through 2016 three-year period was 12.8 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 16.4 in San Bernardino County to 9.3 in Santa Barbara County.

Twenty-seven 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 seventeen counties with unreliable rates and one county with zero death due to colorectal cancer met the objective.

The California age-adjusted death rate from colorectal cancer for the 2011-2013 period was 13.7 per 100,000 population.

TABLE 3
DEATHS DUE TO COLORECTAL CANCER
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE
CALIFORNIA COUNTIES, 2014-2016

RANK ORDER	COUNTY OF RESIDENCE	2015 POPULATION	2014-2016 DEATHS (AVERAGE)	CRUDE DEATH RATE	AGE-ADJUSTED DEATH RATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
1	ALPINE	1,157	0.0	-	-	-	-
2	SIERRA	3,147	0.3	10.6 *	5.6 *	0.0	72.9
3	SUTTER	97,618	9.3	9.6 *	8.3 *	3.9	15.6
4	SAN BENITO	57,584	5.0	8.7 *	8.3 *	2.7	19.4
5	TUOLUMNE	54,525	8.0	14.7 *	8.4 *	3.6	16.6
6	TRINITY	13,562	2.3	17.2 *	8.5 *	1.3	28.2
7	INYO	18,640	2.7	14.3 *	8.7 *	1.6	27.0
8	SANTA BARBARA	444,900	48.3	10.9	9.3	6.9	12.3
9	MODOC	9,507	1.3	14.0 *	9.7 *	0.5	44.6
10	MARIN	262,105	40.7	15.5	9.9	7.1	13.4
11	IMPERIAL	185,328	18.0	9.7 *	9.9 *	5.8	15.6
12	SANTA CRUZ	274,697	31.0	11.3	10.1	6.9	14.4
13	MONTEREY	436,242	45.3	10.4	10.2	7.4	13.6
14	SANTA CLARA	1,915,102	217.0	11.3	10.5	9.1	11.9
15	YOLO	212,686	20.0	9.4	10.5	6.4	16.2
16	NEVADA	98,190	18.0	18.3 *	10.5 *	6.2	16.6
17	GLENN	28,960	3.7	12.7 *	10.7 *	2.7	28.4
18	HUMBOLDT	135,090	18.0	13.3 *	11.0 *	6.5	17.4
19	SAN MATEO	764,379	103.7	13.6	11.0	8.9	13.2
20	PLACER	370,738	57.3	15.5	11.1	8.4	14.4
21	ORANGE	3,161,218	393.0	12.4	11.1	10.0	12.3
22	SAN LUIS OBISPO	276,844	45.3	16.4	11.4	8.3	15.3
23	TEHAMA	63,970	9.7	15.1 *	11.6 *	5.5	21.6
24	NAPA	141,546	22.3	15.8	12.1	7.6	18.2
25	ALAMEDA	1,619,679	209.0	12.9	12.1	10.4	13.8
26	FRESNO	979,357	111.0	11.3	12.1	9.8	14.4
27	KERN	883,327	92.0	10.4	12.5	10.1	15.3
28	COLUSA	22,271	3.0	13.5 *	12.5 *	2.6	36.6
29	DEL NORTE	27,119	4.0	14.7 *	12.5 *	3.4	32.1
30	MADERA	154,956	20.0	12.9	12.7	7.8	19.6
31	VENTURA	852,013	120.7	14.2	12.7	10.4	15.1
32	SAN FRANCISCO	863,108	139.0	16.1	12.8	10.7	15.0
	CALIFORNIA	39,059,809	5,394.3	13.8	12.8	12.5	13.1
33	CONTRA COSTA	1,116,882	167.3	15.0	12.9	10.9	14.8
34	SISKIYOU	44,500	9.0	20.2 *	13.0 *	5.9	24.6
35	SONOMA	501,182	87.0	17.4	13.0	10.4	16.0
36	SAN DIEGO	3,275,084	459.7	14.0	13.0	11.8	14.3
37	LOS ANGELES	10,185,487	1,406.3	13.8	13.1	12.4	13.8
38	TULARE	463,291	54.3	11.7	13.6	10.2	17.7
39	LASSEN	30,969	5.0	16.1 *	13.8 *	4.5	32.2
40	SACRAMENTO	1,489,952	219.7	14.7	14.1	12.2	15.9
41	SOLANO	429,267	67.7	15.8	14.1	10.9	17.8
42	RIVERSIDE	2,329,256	355.0	15.2	14.1	12.6	15.5
43	EL DORADO	183,140	35.7	19.5	14.2	9.9	19.7
44	AMADOR	37,314	10.0	26.8 *	14.4 *	6.9	26.6
45	MERCED	269,729	33.0	12.2	14.5	10.0	20.3
HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: C-5					14.5		
46	CALAVERAS	44,899	12.3	27.5 *	14.7 *	7.7	25.5
47	KINGS	149,702	17.7	11.8 *	14.7 *	8.7	23.3
48	MARIPOSA	18,088	4.7	25.8 *	14.7 *	4.5	35.3
49	PLUMAS	19,586	4.7	23.8 *	15.1 *	4.7	36.2
50	MENDOCINO	88,429	17.3	19.6 *	15.1 *	8.9	24.1
51	SAN JOAQUIN	727,547	106.7	14.7	15.2	12.3	18.2
52	SHASTA	178,777	38.0	21.3	15.4	10.9	21.2
53	LAKE	65,180	15.7	24.0 *	15.5 *	8.8	25.2
54	BUTTE	224,363	45.0	20.1	15.7	11.4	21.0
55	STANISLAUS	538,372	85.7	15.9	16.3	13.0	20.1
56	SAN BERNARDINO	2,129,851	305.0	14.3	16.4	14.6	18.3
57	YUBA	75,579	12.3	16.3 *	17.3 *	9.0	30.0
58	MONO	13,818	0.7	4.8 *	18.5 *	0.1	138.3

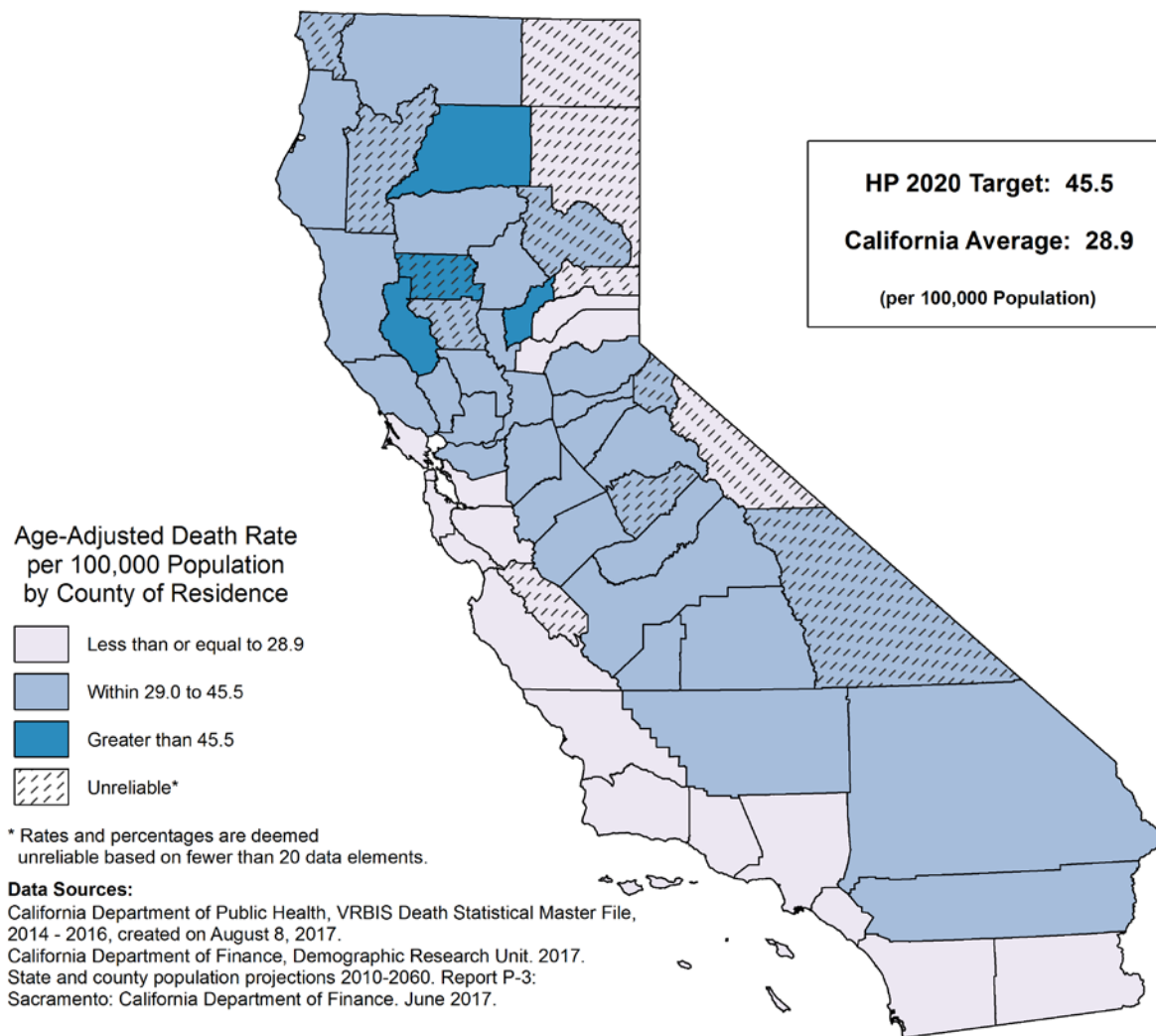
- Rates, percentages, and confidence limits are not calculated for zero occurrences.

* 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, VRBIS Death Statistical Master File Plus 2014 - 2016, created on August 8, 2017; 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, June 2017.

DEATHS DUE TO LUNG CANCER, 2014-2016



The crude death rate from lung cancer for California was 30.9 deaths per 100,000 population, a risk of dying from lung cancer equivalent to approximately one death for every 3,233.3 persons. The crude death rate for California was based on a 2014 through 2016 three-year average number of deaths equaling 12,080.3 and a population count of 39,059,809 as of July 1, 2015. Among counties with reliable rates, the crude death rate ranged from 78.6 in Amador County to 20.9 in Imperial County, a factor of 3.8 to 1.

The age-adjusted death rate from lung cancer for California during the 2014 through 2016 three-year period was 28.9 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 51.0 in Yuba County to 21.1 in Marin County.

Forty-two 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 age-adjusted death rate from lung cancer for the 2011-2013 period was 33.0 per 100,000 population.

TABLE 4
DEATHS DUE TO LUNG CANCER
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE
CALIFORNIA COUNTIES, 2014-2016

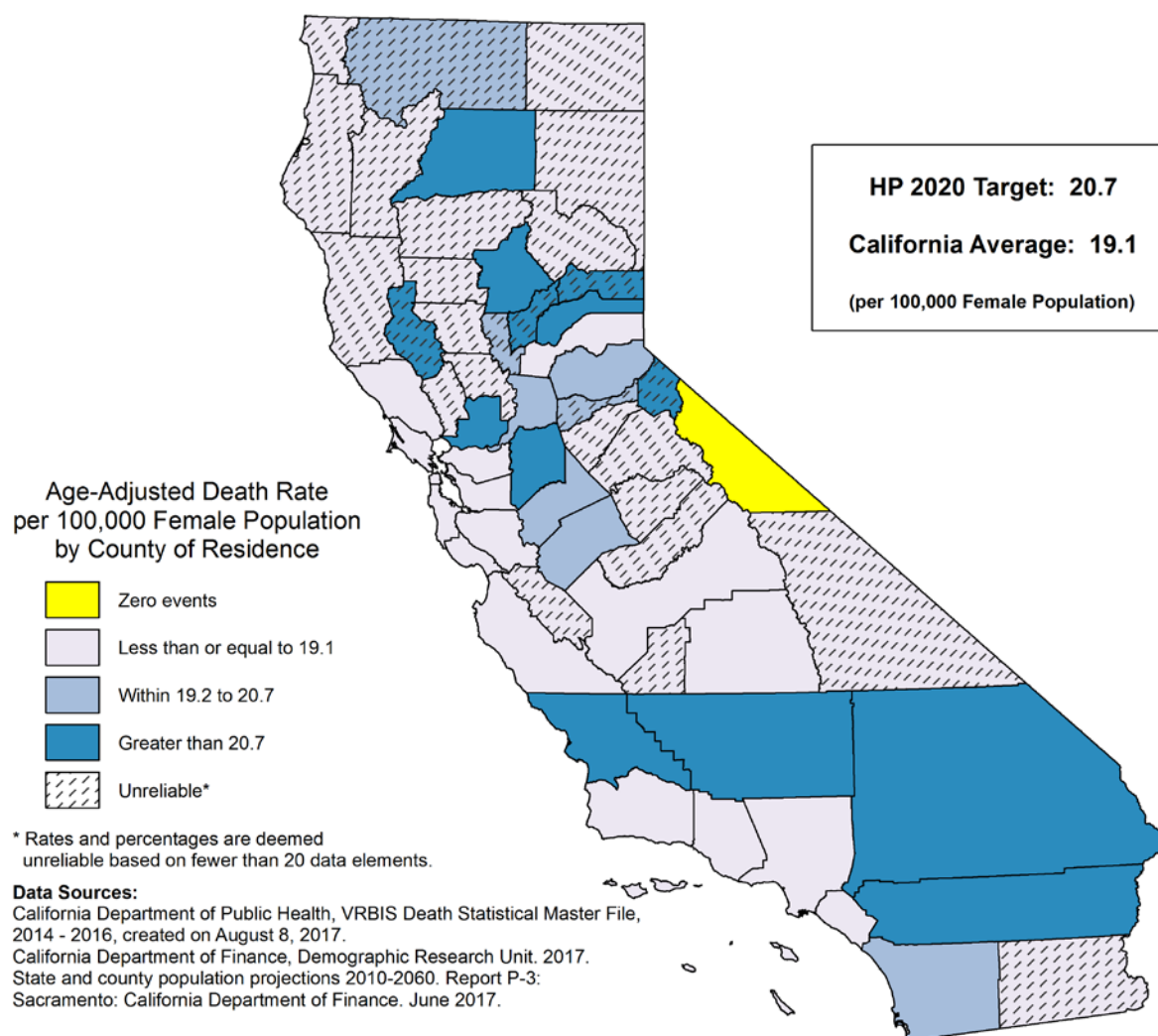
RANK ORDER	COUNTY OF RESIDENCE	2015 POPULATION	2014-2016 DEATHS (AVERAGE)	CRUDE DEATH RATE	AGE-ADJUSTED DEATH RATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
1	MONO	13,818	1.3	9.6 *	12.9 *	0.7	59.5
2	SIERRA	3,147	1.0	31.8 *	15.7 *	0.4	87.5
3	MARIN	262,105	86.3	32.9	21.1	16.9	26.0
4	IMPERIAL	185,328	38.7	20.9	22.3	15.8	30.5
5	MONTEREY	436,242	104.3	23.9	23.4	18.8	27.9
6	SANTA CRUZ	274,697	73.0	26.6	24.1	18.9	30.3
7	MODOC	9,507	4.0	42.1 *	24.2 *	6.6	62.0
8	SAN MATEO	764,379	231.0	30.2	24.3	21.1	27.4
9	SANTA CLARA	1,915,102	506.7	26.5	25.1	22.9	27.3
10	LASSEN	30,969	9.7	31.2 *	25.6 *	12.1	47.6
11	LOS ANGELES	10,185,487	2,708.7	26.6	25.7	24.7	26.7
12	SANTA BARBARA	444,900	130.3	29.3	25.9	21.4	30.4
13	ORANGE	3,161,218	917.3	29.0	26.4	24.7	28.2
14	VENTURA	852,013	259.0	30.4	27.3	23.9	30.7
15	SAN FRANCISCO	863,108	291.7	33.8	27.4	24.2	30.6
16	NEVADA	98,190	48.0	48.9	27.8	20.5	36.9
17	PLACER	370,738	149.7	40.4	28.1	23.5	32.6
18	ALAMEDA	1,619,679	476.7	29.4	28.2	25.6	30.8
19	SAN BENITO	57,584	15.0	26.0 *	28.2 *	15.8	46.6
20	SAN DIEGO	3,275,084	994.0	30.4	28.5	26.7	30.3
21	SAN LUIS OBISPO	276,844	115.0	41.5	28.7	23.3	34.0
	CALIFORNIA	39,059,809	12,080.3	30.9	28.9	28.3	29.4
22	COLUSA	22,271	7.0	31.4 *	29.0 *	11.6	59.7
23	CONTRA COSTA	1,116,882	378.0	33.8	29.2	26.2	32.2
24	FRESNO	979,357	268.7	27.4	30.2	26.5	33.8
25	SONOMA	501,182	204.7	40.8	30.4	26.1	34.6
26	MADERA	154,956	50.7	32.7	30.9	23.0	40.6
27	YOLO	212,686	60.7	28.5	31.0	23.7	39.8
28	MARIPOSA	18,088	11.0	60.8 *	31.2 *	15.6	55.8
29	TULARE	463,291	128.3	27.7	31.5	26.0	37.1
30	RIVERSIDE	2,329,256	801.7	34.4	31.7	29.5	34.0
31	NAPA	141,546	61.3	43.3	32.0	24.5	41.0
32	SAN BERNARDINO	2,129,851	596.3	28.0	32.3	29.7	35.0
33	TUOLUMNE	54,525	33.0	60.5	32.8	22.6	46.0
34	EL DORADO	183,140	88.0	48.1	33.2	26.6	40.9
35	KINGS	149,702	39.7	26.5	33.4	23.8	45.6
36	KERN	883,327	252.3	28.6	33.7	29.5	38.0
37	SOLANO	429,267	172.3	40.1	34.5	29.2	39.7
38	MERCED	269,729	79.7	29.5	35.1	27.8	43.7
39	ALPINE	1,157	0.7	57.6 *	35.3 *	0.2	263.7
40	MENDOCINO	88,429	45.3	51.3	35.8	26.1	47.8
41	SAN JOAQUIN	727,547	250.3	34.4	35.9	31.4	40.4
42	SACRAMENTO	1,489,952	565.7	38.0	36.5	33.4	39.5
43	STANISLAUS	538,372	192.0	35.7	36.5	31.2	41.7
44	INYO	18,640	11.7	62.6 *	36.7 *	18.7	64.6
45	CALAVERAS	44,899	31.3	69.8	36.7	25.0	52.0
46	SISKIYOU	44,500	28.7	64.4	37.0	24.7	53.2
47	PLUMAS	19,586	14.3	73.2 *	37.2 *	20.5	62.1
48	DEL NORTE	27,119	14.0	51.6 *	37.5 *	20.5	63.0
49	BUTTE	224,363	112.7	50.2	37.7	30.6	44.8
50	HUMBOLDT	135,090	67.7	50.1	39.1	30.3	49.6
51	TEHAMA	63,970	35.0	54.7	39.2	27.3	54.5
52	AMADOR	37,314	29.3	78.6	40.3	27.1	57.8
53	TRINITY	13,562	11.0	81.1 *	40.8 *	20.4	73.0
54	SUTTER	97,618	46.7	47.8	42.5	31.2	56.6
HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: C-2					45.5		
55	LAKE	65,180	47.7	73.1	46.5	34.2	61.7
56	SHASTA	178,777	127.3	71.2	48.1	39.6	56.6
57	YUBA	75,579	36.0	47.6	51.0	35.7	70.6
58	GLENN	28,960	18.3	63.3 *	52.7 *	31.4	83.0

* 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, VRBIS Death Statistical Master File Plus 2014 - 2016, created on August 8, 2017. 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, June 2017.

DEATHS DUE TO FEMALE BREAST CANCER, 2014-2016



The crude death rate from female breast cancer for California was 22.4 deaths per 100,000 female population, a risk of dying from breast cancer equivalent to approximately one death for every 4,469.7 females. The crude death rate for California was based on a 2014 through 2016 three-year average number of deaths equaling 4,391.0 and a female population count of 19,626,552 as of July 1, 2015. Among counties with reliable rates, the crude death rate ranged from 44.3 in Nevada County to 17.7 in Tulare County, a factor of 2.5 to 1.

The age-adjusted death rate from female breast cancer for California during the 2014 through 2016 three-year period was 19.1 deaths per 100,000 female population. Reliable age-adjusted death rates ranged from 25.8 in Nevada County to 14.4 in San Francisco County.

Twenty-one 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 twenty-three counties with unreliable rates and one county with zero death due to breast cancer met this objective.

The California age-adjusted death rate from female breast cancer for the 2011-2013 period was 20.5 per 100,000 female population.

TABLE 5
DEATHS DUE TO FEMALE BREAST CANCER
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE
CALIFORNIA COUNTIES, 2014-2016

RANK ORDER	COUNTY OF RESIDENCE	2015 FEMALE POPULATION	2014-2016 DEATHS (AVERAGE)	CRUDE DEATH RATE	AGE-ADJUSTED DEATH RATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
1	MONO	6,500	0.0	-	-	-	-
2	COLUSA	10,850	1.0	9.2 *	7.4 *	0.2	41.0
3	TRINITY	6,616	1.0	15.1 *	8.1 *	0.2	44.9
4	LASSEN	11,660	1.7	14.3 *	9.5 *	0.8	38.2
5	INYO	9,228	2.0	21.7 *	12.1 *	1.5	43.6
6	IMPERIAL	91,238	11.3	12.4 *	12.4 *	6.3	22.1
7	SAN BENITO	28,837	4.3	15.0 *	12.8 *	3.7	31.7
8	PLUMAS	9,808	2.7	27.2 *	14.0 *	2.5	43.3
9	SAN FRANCISCO	425,838	80.7	18.9	14.4	11.5	17.9
10	SANTA CLARA	950,011	173.7	18.3	15.6	13.2	17.9
11	SAN MATEO	387,740	82.0	21.1	15.8	12.6	19.6
12	MARIPOSA	8,938	2.7	29.8 *	16.3 *	2.9	50.5
13	CALAVERAS	22,488	7.7	34.1 *	16.7 *	7.1	33.4
14	MONTEREY	212,301	39.7	18.7	16.8	12.0	22.9
15	GLENN	14,306	2.3	16.3 *	16.9 *	2.6	56.2
16	VENTURA	428,095	89.0	20.8	17.0	13.6	20.9
17	TUOLUMNE	26,200	9.7	36.9 *	17.2 *	8.1	32.0
18	MARIN	133,055	38.0	28.6	17.3	12.3	23.8
19	ALAMEDA	824,289	172.7	20.9	17.8	15.1	20.5
20	DEL NORTE	12,288	3.7	29.8 *	17.9 *	4.5	47.6
21	YOLO	108,972	19.3	17.7 *	17.9 *	10.8	27.8
22	SONOMA	254,570	67.7	26.6	18.0	14.0	22.9
23	MADERA	80,033	15.7	19.6 *	18.1 *	10.3	29.6
24	KINGS	67,735	10.7	15.7 *	18.2 *	9.0	32.9
25	PLACER	188,914	52.3	27.7	18.3	13.7	24.0
26	TEHAMA	32,201	8.3	25.9 *	18.3 *	8.1	35.7
27	MODOC	4,768	1.3	28.0 *	18.4 *	1.0	84.9
28	HUMBOLDT	67,281	17.0	25.3 *	18.5 *	10.8	29.6
29	TULARE	231,292	41.0	17.7	18.5	13.3	25.1
30	ORANGE	1,593,602	360.0	22.6	18.7	16.7	20.7
31	SANTA CRUZ	137,253	32.7	23.8	18.7	12.8	26.3
32	SANTA BARBARA	220,621	49.3	22.4	18.7	13.9	24.8
33	FRESNO	490,084	92.0	18.8	18.9	15.2	23.1
34	MENDOCINO	44,095	12.7	28.7 *	18.9 *	10.0	32.5
35	CONTRA COSTA	570,983	136.7	23.9	19.0	15.7	22.2
36	NAPA	70,960	18.3	25.8 *	19.0 *	11.3	30.0
37	LOS ANGELES	5,155,935	1,133.7	22.0	19.1	18.0	20.2
	CALIFORNIA	19,626,552	4,391.0	22.4	19.1	18.5	19.7
38	SAN DIEGO	1,629,082	370.0	22.7	19.4	17.4	21.5
39	EL DORADO	91,248	25.3	27.8	19.5	12.7	28.7
40	SUTTER	49,016	11.7	23.8 *	19.5 *	10.0	34.4
41	STANISLAUS	271,621	57.7	21.2	19.9	15.1	25.8
42	MERCED	133,664	25.3	19.0	20.4	13.2	30.0
43	SACRAMENTO	758,785	178.7	23.5	20.4	17.4	23.5
44	SISKIYOU	22,338	7.3	32.8 *	20.5 *	8.5	41.6
45	AMADOR	17,493	6.0	34.3 *	20.6 *	7.6	44.8
HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: C-3					20.7		
46	BUTTE	112,856	32.0	28.4	21.2	14.5	29.9
47	RIVERSIDE	1,170,700	281.7	24.1	21.3	18.7	23.8
48	SAN LUIS OBISPO	135,500	40.0	29.5	21.3	15.2	29.1
49	KERN	430,036	88.7	20.6	21.7	17.4	26.7
50	SAN BERNARDINO	1,071,486	239.3	22.3	22.5	19.6	25.4
51	SOLANO	215,695	61.0	28.3	22.8	17.5	29.3
52	SHASTA	91,010	31.7	34.8	23.0	15.7	32.5
53	SAN JOAQUIN	364,647	93.3	25.6	24.2	19.6	29.7
54	YUBA	37,492	9.7	25.8 *	25.2 *	11.9	46.7
55	NEVADA	49,610	22.0	44.3	25.8	16.2	39.1
56	LAKE	32,571	14.0	43.0 *	29.5 *	16.1	49.5
57	SIERRA	1,555	1.0	64.3 *	33.8 *	0.9	188.6
58	ALPINE	562	0.3	59.3 *	51.7 *	0.0	675.5

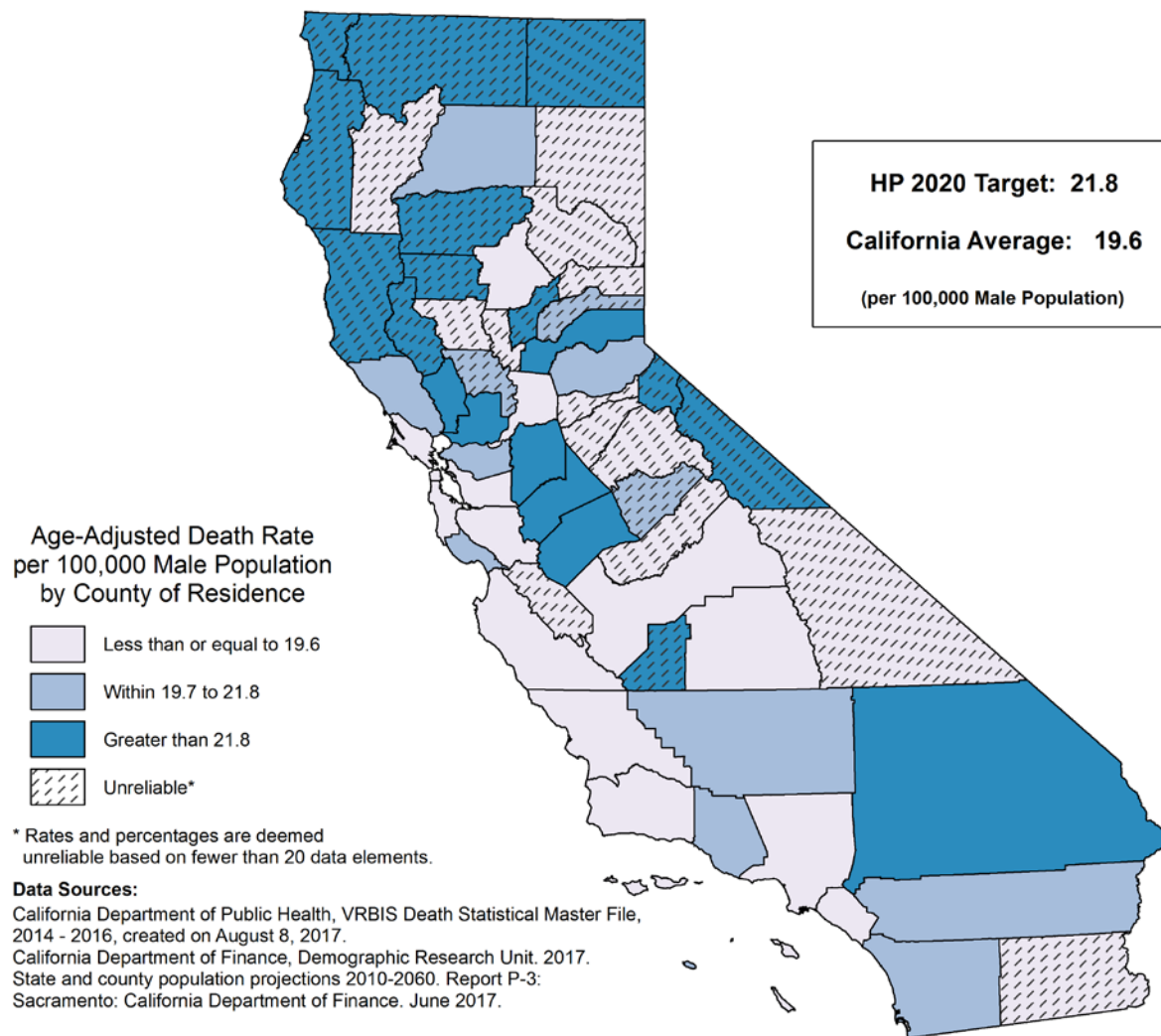
- Rates, percentages, and confidence limits are not calculated for zero occurrences.

* 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, VRBIS Death Statistical Master File Plus 2014 - 2016, created on August 8, 2017. 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, June 2017.

DEATHS DUE TO PROSTATE CANCER, 2014-2016



The crude death rate from prostate cancer for California was 17.3 deaths per 100,000 male population, a risk of dying from prostate cancer equivalent to approximately one death for every 5,768.8 males. The crude death rate for California was based on a 2014 through 2016 three-year average number of deaths equaling 3,368.7 and a male population count of 19,433,257 as of July 1, 2015. Among counties with reliable rates, the crude death rate ranged from 29.3 in Napa County to 12.1 in Fresno County, a factor of 2.4 to 1.

The age-adjusted death rate from prostate cancer for California during the 2014 through 2016 three-year period was 19.6 deaths per 100,000 male population. Reliable age-adjusted death rates ranged from 27.4 in Napa County to 13.8 in San Francisco County.

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

The California age-adjusted death rate from prostate cancer for the 2011-2013 period was 19.8 per 100,000 male population.

**TABLE 6
DEATHS DUE TO PROSTATE CANCER
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE
CALIFORNIA COUNTIES, 2014-2016**

RANK ORDER	COUNTY OF RESIDENCE	2015 MALE POPULATION	2014-2016 DEATHS (AVERAGE)	CRUDE DEATH RATE	AGE-ADJUSTED DEATH RATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
1	TRINITY	6,946	1.3	19.2 *	10.7 *	0.6	49.4
2	SAN BENITO	28,747	2.3	8.1 *	11.5 *	1.8	38.3
3	COLUSA	11,421	1.3	11.7 *	13.6 *	0.8	62.4
4	PLUMAS	9,778	2.3	23.9 *	13.7 *	2.1	45.5
5	AMADOR	19,821	4.7	23.5 *	13.7 *	4.2	32.9
6	LASSEN	19,309	2.0	10.4 *	13.8 *	1.7	49.8
7	SAN FRANCISCO	437,270	64.0	14.6	13.8	10.7	17.7
8	SUTTER	48,602	6.7	13.7 *	14.8 *	5.8	30.9
9	SANTA CLARA	965,091	127.0	13.2	15.0	12.4	17.6
10	SAN MATEO	376,639	59.7	15.8	15.1	11.5	19.5
11	INYO	9,412	2.3	24.8 *	15.4 *	2.3	51.0
12	CALAVERAS	22,411	6.0	26.8 *	15.6 *	5.7	34.0
13	FRESNO	489,273	59.3	12.1	16.0	12.2	20.7
14	TUOLUMNE	28,325	7.7	27.1 *	16.3 *	6.9	32.5
15	ALAMEDA	795,390	117.7	14.8	17.2	14.0	20.4
16	SIERRA	1,592	0.7	41.9 *	17.2 *	0.1	128.6
17	SAN LUIS OBISPO	141,344	30.3	21.5	17.5	11.8	24.9
18	SANTA BARBARA	224,279	38.3	17.1	17.6	12.4	24.1
19	ORANGE	1,567,616	252.0	16.1	17.6	15.4	19.8
20	MARIN	129,050	31.0	24.0	17.8	12.1	25.2
21	MADERA	74,923	12.7	16.9 *	18.2 *	9.6	31.3
22	MONTEREY	223,941	32.3	14.4	18.2	12.5	25.7
23	IMPERIAL	94,090	14.7	15.6 *	18.4 *	10.2	30.6
24	BUTTE	111,507	24.7	22.1	19.4	12.5	28.7
25	TULARE	231,999	30.3	13.1	19.4	13.1	27.7
26	SACRAMENTO	731,167	119.0	16.3	19.5	15.9	23.0
27	LOS ANGELES	5,029,552	830.3	16.5	19.5	18.1	20.8
	CALIFORNIA	19,433,257	3,368.7	17.3	19.6	18.9	20.3
28	SONOMA	246,612	54.0	21.9	19.7	14.8	25.7
29	SANTA CRUZ	137,444	23.3	17.0	19.8	12.6	29.6
30	VENTURA	423,918	77.3	18.2	19.9	15.7	24.9
31	RIVERSIDE	1,158,556	216.7	18.7	19.9	17.3	22.6
32	NEVADA	48,580	15.3	31.6 *	20.0 *	11.3	32.8
33	EL DORADO	91,892	23.3	25.4	20.0	12.7	29.9
34	CONTRA COSTA	545,899	106.3	19.5	20.1	16.2	24.0
35	MARIPOSA	9,150	3.3	36.4 *	20.4 *	4.7	56.7
36	KERN	453,291	63.7	14.0	21.2	16.3	27.1
37	YOLO	103,714	17.3	16.7 *	21.4 *	12.5	34.1
38	SHASTA	87,767	24.7	28.1	21.4	13.8	31.7
39	SAN DIEGO	1,646,002	316.0	19.2	21.7	19.3	24.1
HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: C-7					21.8		
40	GLENN	14,654	3.3	22.7 *	22.0 *	5.1	61.2
41	PLACER	181,824	49.7	27.3	22.0	16.3	29.1
42	TEHAMA	31,769	9.0	28.3 *	23.4 *	10.7	44.4
43	ALPINE	595	0.3	56.0 *	23.6 *	0.0	309.1
44	KINGS	81,967	11.3	13.8 *	24.6 *	12.4	43.7
45	MERCED	136,065	22.3	16.4	25.0	15.7	37.7
46	SOLANO	213,572	47.3	22.2	25.1	18.4	33.3
47	STANISLAUS	266,751	53.7	20.1	25.6	19.2	33.4
48	DEL NORTE	14,831	3.7	24.7 *	25.8 *	6.5	68.8
49	MODOC	4,739	2.0	42.2 *	25.9 *	3.1	93.5
50	LAKE	32,609	12.0	36.8 *	26.4 *	13.6	46.1
51	SAN BERNARDINO	1,058,365	188.7	17.8	26.7	22.8	30.7
52	SAN JOAQUIN	362,900	71.0	19.6	26.8	20.9	33.8
53	HUMBOLDT	67,809	18.3	27.0 *	26.9 *	16.1	42.4
54	NAPA	70,586	20.7	29.3	27.4	16.9	42.0
55	SISKIYOU	22,162	9.7	43.6 *	28.2 *	13.3	52.4
56	YUBA	38,087	8.0	21.0 *	28.4 *	12.3	56.0
57	MENDOCINO	44,334	14.3	32.3 *	29.2 *	16.1	48.7
58	MONO	7,318	1.3	18.2 *	60.9 *	3.4	280.5

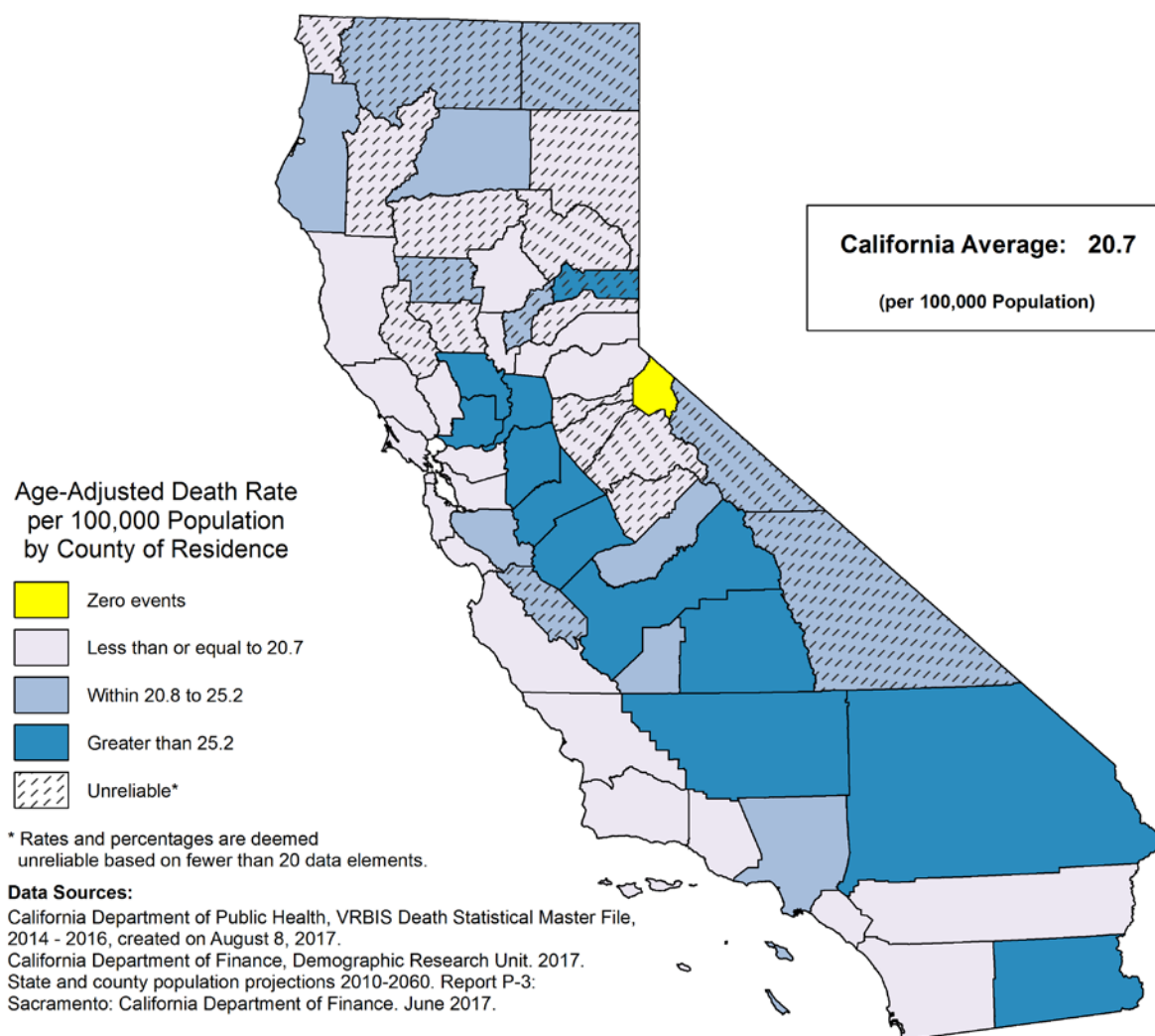
- Rates, percentages, and confidence limits are not calculated for zero occurrences.

* 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, VRBIS Death Statistical Master File Plus 2014 - 2016, created on August 8, 2017. 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, June 2017.

DEATHS DUE TO DIABETES, 2014-2016



The crude death rate from diabetes for California was 22.3 deaths per 100,000 population, a risk of dying from diabetes equivalent to approximately one death for every 4,491.9 persons. The crude death rate for California was based on a 2014 through 2016 three-year average number of deaths equaling 8,695.7 and a population count of 39,059,809 as of July 1, 2015. Among counties with reliable rates, the crude death rate ranged from 32.5 in Solano County to 11.6 in Marin County, a factor of 2.8 to 1.

The age-adjusted death rate from diabetes for California during the 2014 through 2016 three-year period was 20.7 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 36.1 in Kern County to 7.5 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 was not addressed in this report.

The California age-adjusted death rate from diabetes for the 2011-2013 period was 20.5 per 100,000 population.

**TABLE 7
DEATHS DUE TO DIABETES
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE
CALIFORNIA COUNTIES, 2014-2016**

RANK ORDER	COUNTY OF RESIDENCE	2015 POPULATION	2014-2016 DEATHS (AVERAGE)	CRUDE DEATH RATE	AGE-ADJUSTED DEATH RATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: D-3							
					NOT APPLICABLE		
1	ALPINE	1,157	0.0	-	-	-	-
2	AMADOR	37,314	5.0	13.4 *	7.1 *	2.3	16.5
3	MARIN	262,105	30.3	11.6	7.5	5.1	10.7
4	TRINITY	13,562	2.0	14.7 *	7.6 *	0.9	27.4
5	PLUMAS	19,586	4.0	20.4 *	10.4 *	2.8	26.5
6	NEVADA	98,190	16.7	17.0 *	10.7 *	6.2	17.2
7	EL DORADO	183,140	26.3	14.4	11.1	7.2	16.2
8	CALAVERAS	44,899	10.3	23.0 *	12.8 *	6.2	23.3
9	SAN MATEO	764,379	122.7	16.0	12.8	10.5	15.1
10	SAN LUIS OBISPO	276,844	51.0	18.4	12.9	9.6	17.0
11	TUOLUMNE	54,525	12.7	23.2 *	12.9 *	6.8	22.2
12	SAN FRANCISCO	863,108	145.3	16.8	13.3	11.1	15.5
13	MARIPOSA	18,088	3.3	18.4 *	13.5 *	3.1	37.5
14	ORANGE	3,161,218	472.3	14.9	13.5	12.3	14.8
15	LAKE	65,180	14.7	22.5 *	14.6 *	8.1	24.3
16	PLACER	370,738	81.7	22.0	15.6	12.4	19.4
17	COLUSA	22,271	3.3	15.0 *	15.8 *	3.6	43.8
18	SANTA CRUZ	274,697	49.0	17.8	15.9	11.8	21.0
19	SONOMA	501,182	112.0	22.3	16.9	13.7	20.1
20	NAPA	141,546	32.0	22.6	16.9	11.6	23.8
21	SANTA BARBARA	444,900	88.7	19.9	17.2	13.8	21.2
22	MENDOCINO	88,429	22.0	24.9	17.3	10.9	26.2
23	CONTRA COSTA	1,116,882	230.0	20.6	17.6	15.3	19.9
24	VENTURA	852,013	179.3	21.0	18.8	16.0	21.6
25	SUTTER	97,618	20.0	20.5	18.9	11.6	29.2
26	BUTTE	224,363	52.7	23.5	18.9	14.2	24.8
27	SAN DIEGO	3,275,084	679.3	20.7	19.3	17.8	20.8
28	RIVERSIDE	2,329,256	486.7	20.9	19.3	17.6	21.1
29	TEHAMA	63,970	16.0	25.0 *	19.4 *	11.1	31.5
30	MONTEREY	436,242	83.3	19.1	19.6	15.6	24.3
31	DEL NORTE	27,119	7.0	25.8 *	19.7 *	7.9	40.6
32	LASSEN	30,969	6.7	21.5 *	19.8 *	7.7	41.5
33	ALAMEDA	1,619,679	340.3	21.0	19.9	17.8	22.1
	CALIFORNIA	39,059,809	8,695.7	22.3	20.7	20.3	21.1
34	MADERA	154,956	32.3	20.9	20.8	14.2	29.3
35	MONO	13,818	1.0	7.2 *	21.2 *	0.5	118.1
36	SANTA CLARA	1,915,102	436.0	22.8	21.4	19.4	23.4
37	SHASTA	178,777	53.0	29.6	21.7	16.3	28.4
38	HUMBOLDT	135,090	34.3	25.4	21.8	15.1	30.4
39	LOS ANGELES	10,185,487	2,379.7	23.4	22.3	21.4	23.2
40	YUBA	75,579	15.7	20.7 *	22.6 *	12.8	36.9
41	SISKIYOU	44,500	16.3	36.7 *	23.2 *	13.3	37.4
42	INYO	18,640	7.0	37.6 *	24.1 *	9.7	49.6
43	GLENN	28,960	8.3	28.8 *	24.1 *	10.6	47.0
44	SAN BENITO	57,584	14.0	24.3 *	24.2 *	13.2	40.6
45	KINGS	149,702	27.7	18.5	24.7	16.4	35.8
46	MODOC	9,507	3.7	38.6 *	25.2 *	6.3	66.9
47	SACRAMENTO	1,489,952	395.7	26.6	25.3	22.7	27.8
48	YOLO	212,686	49.0	23.0	25.4	18.8	33.5
49	SAN JOAQUIN	727,547	180.7	24.8	25.4	21.7	29.2
50	STANISLAUS	538,372	136.3	25.3	26.0	21.5	30.4
51	FRESNO	979,357	238.3	24.3	26.4	23.0	29.8
52	TULARE	463,291	107.7	23.2	26.5	21.4	31.5
53	SOLANO	429,267	139.3	32.5	29.0	24.1	33.9
54	MERCED	269,729	68.7	25.5	30.4	23.7	38.5
55	SIERRA	3,147	1.7	53.0 *	31.7 *	2.8	127.4
56	SAN BERNARDINO	2,129,851	620.3	29.1	33.2	30.5	35.9
57	IMPERIAL	185,328	59.7	32.2	33.6	25.6	43.3
58	KERN	883,327	262.7	29.7	36.1	31.7	40.6

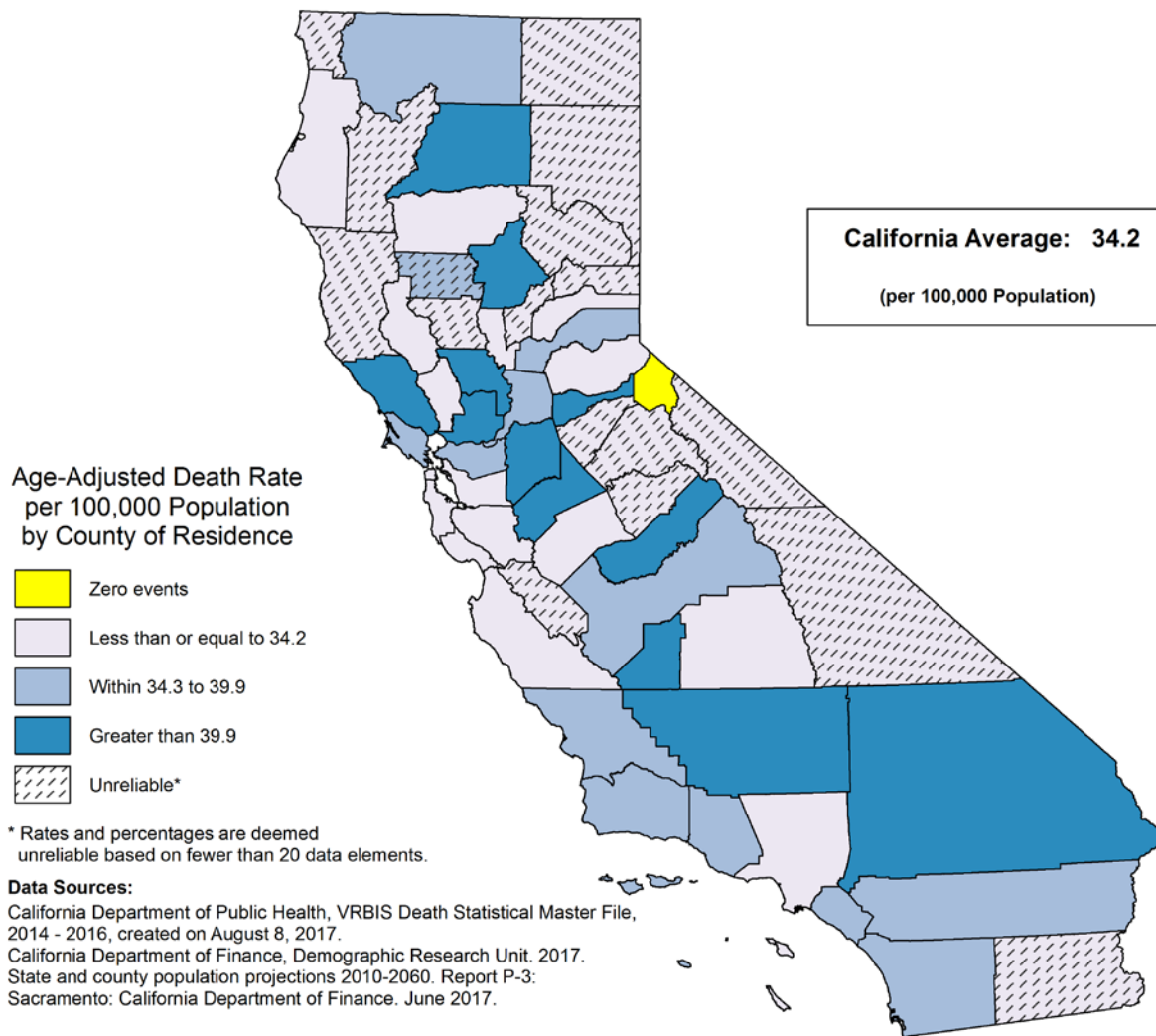
- Rates, percentages, and confidence limits are not calculated for zero occurrences.

* 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, VRBIS Death Statistical Master File Plus 2014 - 2016, created on August 8, 2017. 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, June 2017.

DEATHS DUE TO ALZHEIMER'S DISEASE, 2014-2016



The crude death rate from Alzheimer's disease for California was 36.8 deaths per 100,000 population, a risk of dying from Alzheimer's disease equivalent to approximately one death for every 2,715.0 persons. The crude death rate for California was based on a 2014 through 2016 three-year average number of deaths equaling 14,386.7 and a population count of 39,059,809 as of July 1, 2015. Among counties with reliable rates, the crude death rate ranged from 85.8 in Amador County to 5.9 in Santa Clara County, a factor of 14.5 to 1.

The age-adjusted death rate from Alzheimer's disease for California during the 2014 through 2016 three-year period was 34.2 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 59.3 in San Joaquin County to 5.4 in Santa Clara County. Note that CDPH has identified significant changes in reporting practice among certifiers in Santa Clara County that have affected this rate. See technical notes for further detail.

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

The California age-adjusted death rate from Alzheimer's disease for the 2011-2013 period was 30.4 per 100,000 population.

TABLE 8
DEATHS DUE TO ALZHEIMER'S DISEASE
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE
CALIFORNIA COUNTIES, 2014-2016

RANK ORDER	COUNTY OF RESIDENCE	2015 POPULATION	2014-2016 DEATHS (AVERAGE)	CRUDE DEATH RATE	AGE-ADJUSTED DEATH RATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
1	ALPINE	1,157	0.0	-	-	-	-
2	INYO	18,640	1.3	7.2 *	4.5 *	0.3	20.8
3	SANTA CLARA	1,915,102	113.7	5.9	5.4 †	4.4	6.5
4	MODOC	9,507	1.0	10.5 *	6.5 *	0.2	36.3
5	DEL NORTE	27,119	2.3	8.6 *	6.8 *	1.0	22.5
6	IMPERIAL	185,328	14.0	7.6 *	7.7 *	4.2	12.9
7	MONO	13,818	0.7	4.8 *	9.4 *	0.0	70.2
8	TUOLUMNE	54,525	11.0	20.2 *	10.7 *	5.3	19.1
9	SAN BENITO	57,584	6.0	10.4 *	11.5 *	4.2	25.0
10	LASSEN	30,969	3.7	11.8 *	11.6 *	2.9	31.0
11	MENDOCINO	88,429	15.3	17.3 *	12.6 *	7.1	20.6
12	COLUSA	22,271	4.3	19.5 *	19.2 *	5.6	47.6
13	CALAVERAS	44,899	15.7	34.9 *	19.7 *	11.2	32.2
14	PLUMAS	19,586	7.0	35.7 *	20.5 *	8.3	42.3
15	SUTTER	97,618	22.0	22.5	20.8	13.0	31.5
16	MARIPOSA	18,088	7.3	40.5 *	21.1 *	8.7	42.9
17	SIERRA	3,147	1.0	31.8 *	22.2 *	0.6	123.4
18	YUBA	75,579	15.3	20.3 *	25.6 *	14.4	42.0
19	HUMBOLDT	135,090	43.0	31.8	25.9	18.7	34.9
20	MERCED	269,729	55.7	20.6	26.2	19.7	34.0
21	MONTEREY	436,242	121.0	27.7	26.3	21.5	31.1
22	SAN FRANCISCO	863,108	340.3	39.4	27.1	24.1	30.0
23	LAKE	65,180	26.7	40.9	27.2	17.8	39.6
24	TULARE	463,291	106.3	23.0	28.5	23.0	33.9
25	SAN MATEO	764,379	300.7	39.3	29.1	25.7	32.4
26	TRINITY	13,562	7.0	51.6 *	29.1 *	11.7	59.9
27	TEHAMA	63,970	24.7	38.6	29.2	18.8	43.2
28	EL DORADO	183,140	68.3	37.3	29.3	22.7	37.1
29	NAPA	141,546	60.3	42.6	30.3	23.2	39.0
30	ALAMEDA	1,619,679	539.0	33.3	32.0	29.3	34.8
31	NEVADA	98,190	59.7	60.8	32.4	24.7	41.7
32	LOS ANGELES	10,185,487	3,560.0	35.0	32.9	31.8	34.0
33	SANTA CRUZ	274,697	95.0	34.6	33.8	27.3	41.3
	CALIFORNIA	39,059,809	14,386.7	36.8	34.2	33.6	34.7
34	SAN LUIS OBISPO	276,844	147.7	53.3	34.9	29.2	40.6
35	GLENN	28,960	12.0	41.4 *	35.4 *	18.3	61.9
36	SISKIYOU	44,500	28.0	62.9	35.8	23.8	51.7
37	RIVERSIDE	2,329,256	917.0	39.4	36.2	33.9	38.6
38	SANTA BARBARA	444,900	210.3	47.3	36.7	31.6	41.7
39	PLACER	370,738	202.0	54.5	37.1	32.0	42.3
40	CONTRA COSTA	1,116,882	484.3	43.4	37.2	33.9	40.6
41	SACRAMENTO	1,489,952	565.3	37.9	37.3	34.2	40.4
42	ORANGE	3,161,218	1,338.7	42.3	37.5	35.4	39.5
43	FRESNO	979,357	333.3	34.0	37.6	33.5	41.7
44	SAN DIEGO	3,275,084	1,375.3	42.0	37.8	35.8	39.9
45	MARIN	262,105	168.7	64.4	39.6	33.5	45.6
46	VENTURA	852,013	380.7	44.7	39.9	35.8	43.9
47	SAN BERNARDINO	2,129,851	634.3	29.8	40.0	36.9	43.1
48	KINGS	149,702	42.3	28.3	40.3	29.1	54.4
49	SONOMA	501,182	279.3	55.7	40.3	35.5	45.1
50	MADERA	154,956	63.3	40.9	41.5	31.9	53.1
51	SOLANO	429,267	188.0	43.8	42.6	36.5	48.7
52	AMADOR	37,314	32.0	85.8	43.5	29.8	61.4
53	YOLO	212,686	85.0	40.0	44.0	35.2	54.4
54	STANISLAUS	538,372	233.0	43.3	45.8	39.9	51.7
55	BUTTE	224,363	168.3	75.0	51.1	43.3	59.0
56	KERN	883,327	326.3	36.9	51.5	45.9	57.1
57	SHASTA	178,777	135.0	75.5	52.1	43.3	60.9
58	SAN JOAQUIN	727,547	387.0	53.2	59.3	53.3	65.2

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

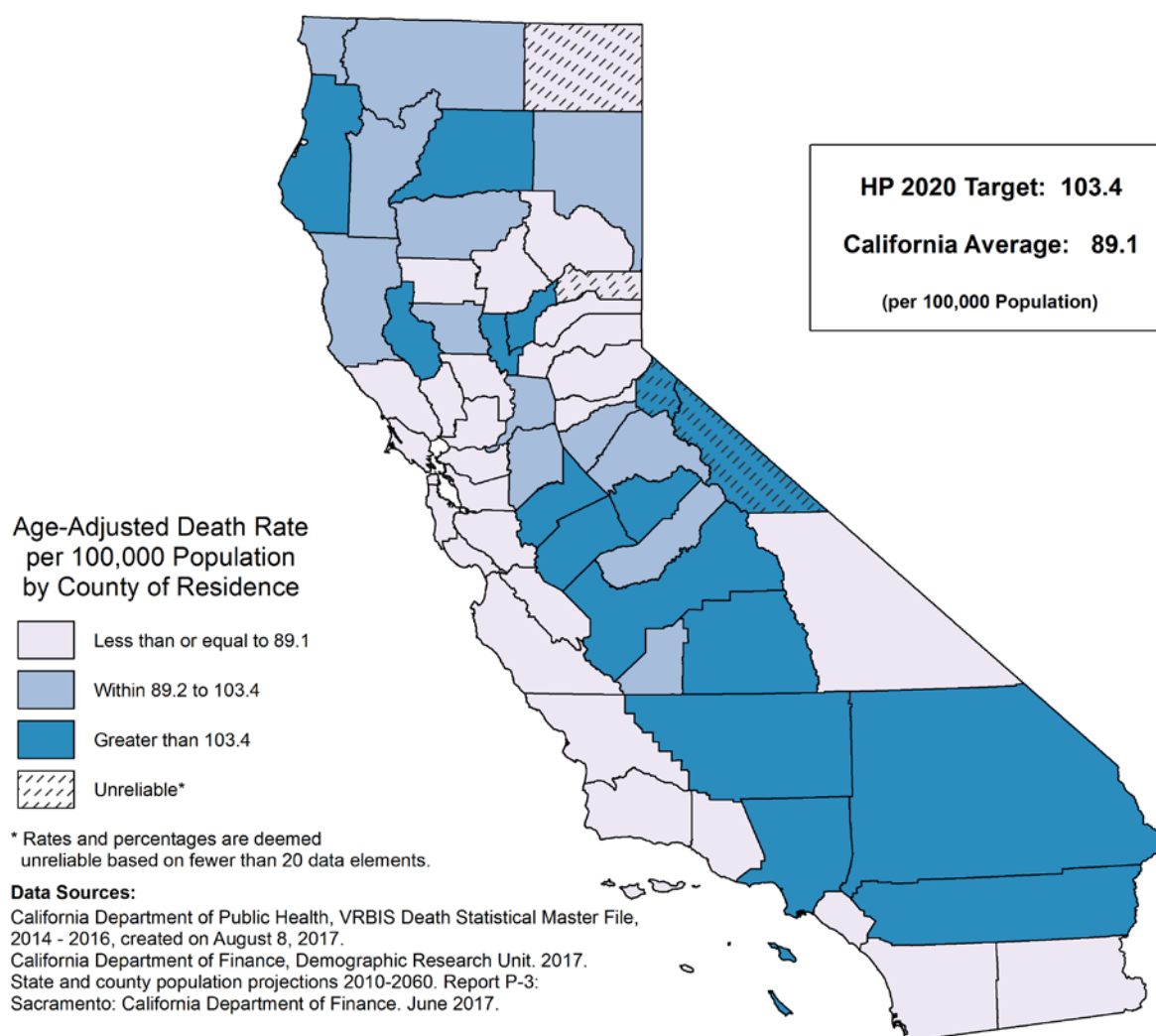
* Rates are deemed unreliable based on fewer than 20 data elements.

† Data and rates for Santa Clara County may not provide true reflection of Alzheimer's deaths due to reporting inconsistencies. See technical notes for more information.

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: CDPH, VRBIS Death Statistical Master File Plus 2014 - 2016, created on August 8, 2017. State of California, DOF, Report P-3: State and County Population Projections by Race/Ethnicity, Detailed Age, and Gender, 2010-2060. Sacramento, California, June 2017.

DEATHS DUE TO CORONARY HEART DISEASE, 2014-2016



The crude death rate from coronary heart disease for California was 96.4 deaths per 100,000 population, a risk of dying from coronary heart disease equivalent to approximately one death for every 1,037.2 persons. The crude death rate for California was based on a 2014 through 2016 three-year average number of deaths equaling 37,658.7 and a population count of 39,059,809 as of July 1, 2015. Among counties with reliable rates, the crude death rate ranged from 208.2 in Mariposa County to 52.7 in San Benito County, a factor of 4.0 to 1.

The age-adjusted death rate from coronary heart disease for California during the 2014 through 2016 three-year period was 89.1 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 135.6 in Stanislaus County to 52.1 in Marin County.

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

The California age-adjusted death rate from coronary heart disease for the 2011-2013 period was 102.4 per 100,000 population.

**TABLE 9
DEATHS DUE TO CORONARY HEART DISEASE
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE
CALIFORNIA COUNTIES, 2014-2016**

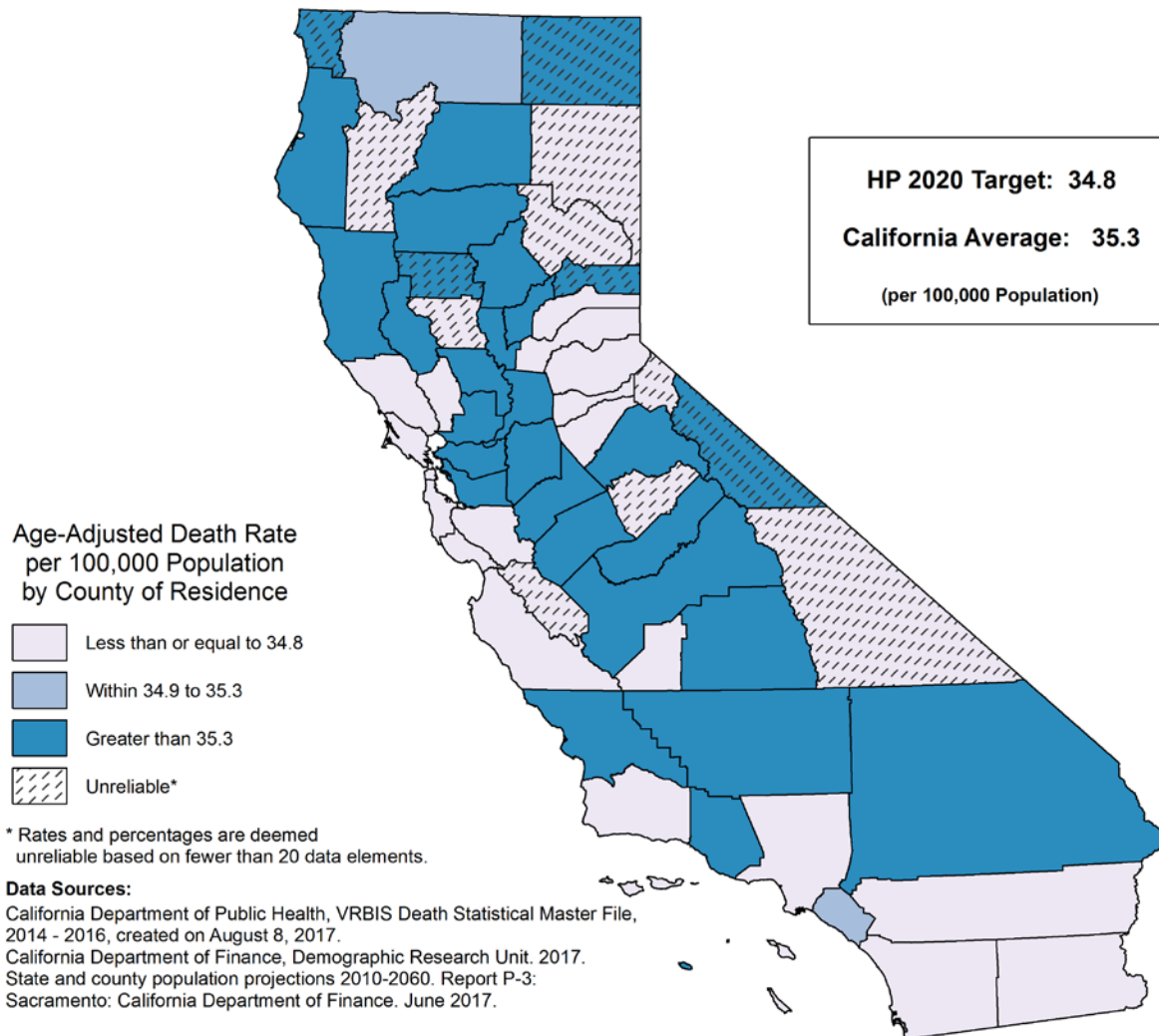
RANK ORDER	COUNTY OF RESIDENCE	2015 POPULATION	2014-2016 DEATHS (AVERAGE)	CRUDE DEATH RATE	AGE-ADJUSTED DEATH RATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
1	MARIN	262,105	217.7	83.0	52.1	45.1	59.2
2	SAN FRANCISCO	863,108	634.0	73.5	55.1	50.7	59.4
3	SAN MATEO	764,379	547.3	71.6	55.4	50.7	60.1
4	SAN BENITO	57,584	30.3	52.7	56.4	38.1	80.3
5	MONTEREY	436,242	260.3	59.7	56.9	49.8	63.9
6	SANTA CLARA	1,915,102	1,199.3	62.6	58.2	54.9	61.6
7	CONTRA COSTA	1,116,882	804.0	72.0	61.0	56.7	65.3
8	ALAMEDA	1,619,679	1,087.0	67.1	64.0	60.1	67.8
9	SAN LUIS OBISPO	276,844	263.3	95.1	64.5	56.5	72.4
10	SOLANO	429,267	308.0	71.8	65.2	57.8	72.5
11	SANTA CRUZ	274,697	192.3	70.0	65.7	56.2	75.2
12	PLACER	370,738	384.0	103.6	72.5	65.2	79.8
13	YOLO	212,686	143.7	67.5	73.2	61.1	85.2
14	INYO	18,640	25.3	135.9	73.3	47.6	107.9
15	PLUMAS	19,586	26.3	134.4	73.4	48.1	107.3
16	MODOC	9,507	12.0	126.2 *	74.1 *	38.3	129.4
17	SONOMA	501,182	524.7	104.7	75.9	69.3	82.5
18	SANTA BARBARA	444,900	412.3	92.7	76.6	69.1	84.1
19	NEVADA	98,190	143.0	145.6	79.4	66.0	92.9
20	SIERRA	3,147	4.7	148.3 *	79.5 *	24.5	190.7
21	ORANGE	3,161,218	2,854.7	90.3	80.4	77.4	83.4
22	VENTURA	852,013	774.0	90.8	80.7	74.9	86.4
23	GLENN	28,960	28.0	96.7	81.2	53.9	117.3
24	SAN DIEGO	3,275,084	2,907.7	88.8	81.2	78.2	84.2
25	NAPA	141,546	158.7	112.1	81.5	68.7	94.3
26	EL DORADO	183,140	209.3	114.3	83.3	71.8	94.9
27	AMADOR	37,314	61.3	164.4	85.5	65.5	109.8
28	BUTTE	224,363	261.0	116.3	85.8	75.1	96.5
29	IMPERIAL	185,328	155.3	83.8	86.9	73.1	100.6
	CALIFORNIA	39,059,809	37,658.7	96.4	89.1	88.2	90.0
30	CALAVERAS	44,899	70.3	156.6	89.8	70.1	113.4
31	SISKIYOU	44,500	66.7	149.8	90.0	69.7	114.3
32	MENDOCINO	88,429	108.7	122.9	90.5	73.0	107.9
33	KINGS	149,702	104.7	69.9	91.6	73.9	109.3
34	MADERA	154,956	144.0	92.9	91.7	76.7	106.8
35	COLUSA	22,271	22.3	100.3	94.3	59.3	142.3
36	TRINITY	13,562	22.0	162.2	94.5	59.2	143.1
37	DEL NORTE	27,119	33.0	121.7	95.7	65.9	134.4
38	LASSEN	30,969	33.3	107.6	97.1	67.0	136.1
39	TEHAMA	63,970	86.0	134.4	99.9	79.9	123.4
40	TUOLUMNE	54,525	98.3	180.3	100.7	81.8	122.6
41	SAN JOAQUIN	727,547	694.0	95.4	101.4	93.7	109.1
42	SACRAMENTO	1,489,952	1,609.3	108.0	103.2	98.1	108.3
	HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: HDS-2				103.4		
43	LOS ANGELES	10,185,487	11,200.7	110.0	103.9	102.0	105.9
44	RIVERSIDE	2,329,256	2,649.7	113.8	104.6	100.6	108.7
45	SAN BERNARDINO	2,129,851	1,839.0	86.3	106.5	101.5	111.4
46	HUMBOLDT	135,090	178.7	132.3	106.9	90.7	123.0
47	MARIPOSA	18,088	37.7	208.2	107.2	75.7	147.3
48	FRESNO	979,357	977.3	99.8	108.1	101.2	115.0
49	ALPINE	1,157	1.7	144.1 *	110.0 *	9.7	441.4
50	LAKE	65,180	109.7	168.3	115.7	93.2	138.1
51	MERCED	269,729	262.3	97.3	117.0	102.7	131.3
52	TULARE	463,291	472.3	102.0	120.5	109.5	131.4
53	SHASTA	178,777	315.3	176.4	121.9	108.2	135.6
54	SUTTER	97,618	136.0	139.3	125.8	104.5	147.0
55	YUBA	75,579	87.0	115.1	128.9	103.2	158.9
56	KERN	883,327	951.7	107.7	132.6	124.0	141.2
57	STANISLAUS	538,372	710.7	132.0	135.6	125.5	145.7
58	MONO	13,818	6.7	48.2 *	170.1 *	66.5	356.5

* 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, VRBIS Death Statistical Master File Plus 2014 - 2016, created on August 8, 2017. 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, June 2017.

DEATHS DUE TO CEREBROVASCULAR DISEASE (STROKE), 2014-2016



The crude death rate from cerebrovascular disease for California was 37.8 deaths per 100,000 population, a risk of dying from cerebrovascular disease equivalent to approximately one death for every 2,647.5 persons. The crude death rate for California was based on a 2014 through 2016 three-year average number of deaths equaling 14,753.3 and a population count of 39,059,809 as of July 1, 2015. Among counties with reliable rates, the crude death rate ranged from 80.2 in Humboldt County to 25.4 in Kings County, a factor of 3.2 to 1.

The age-adjusted death rate from cerebrovascular disease for California during the 2014 through 2016 three-year period was 35.3 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 65.6 in Humboldt County to 24.4 in Marin County.

Nineteen 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 California age-adjusted death rate due to cerebrovascular disease did not meet the national objective.

The California age-adjusted death rate from cerebrovascular disease for the 2011-2013 period was 35.4 per 100,000 population.

**TABLE 10
DEATHS DUE TO CEREBROVASCULAR DISEASE (STROKE)
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE
CALIFORNIA COUNTIES, 2014-2016**

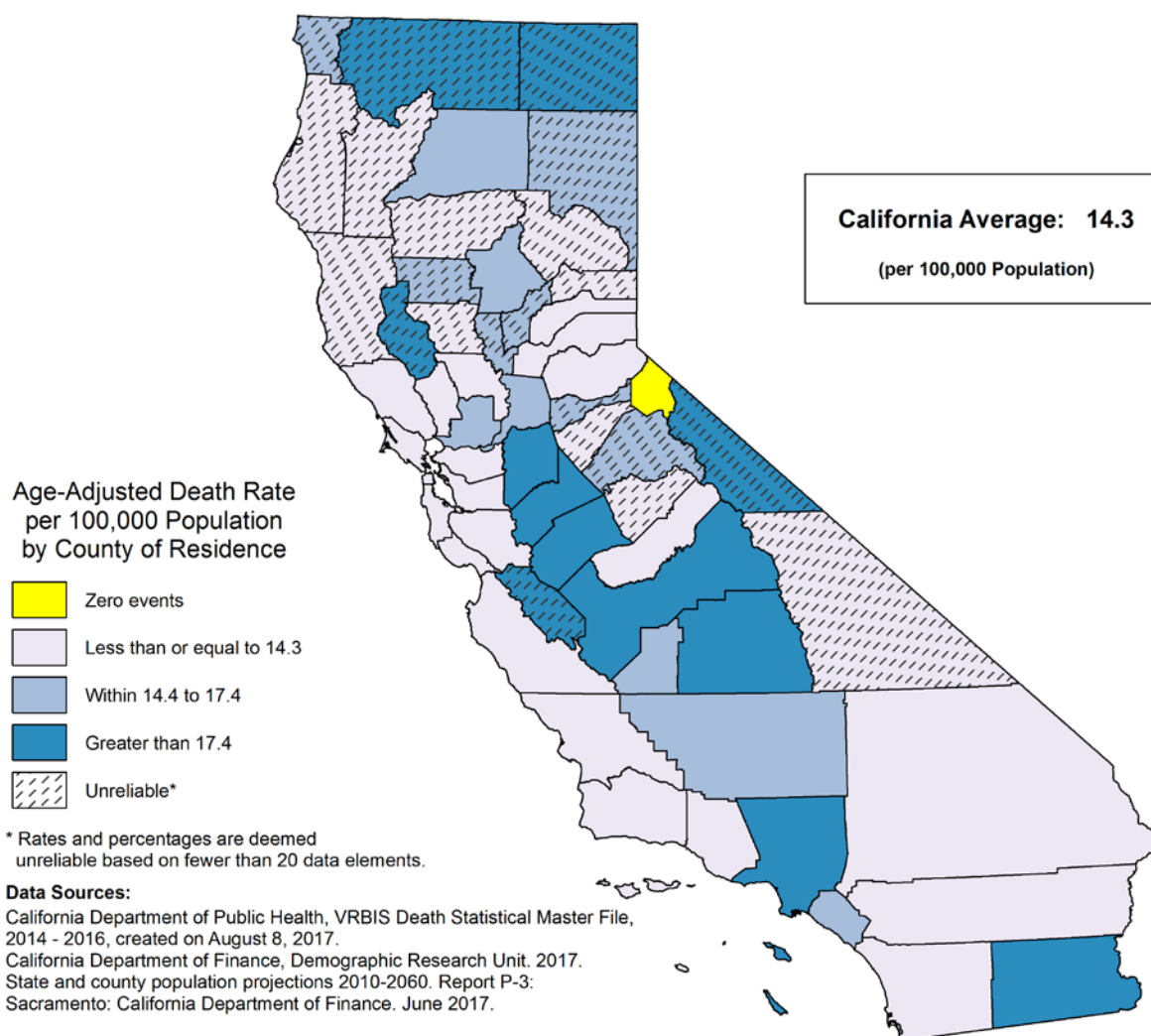
RANK ORDER	COUNTY OF RESIDENCE	2015 POPULATION	2014-2016 DEATHS (AVERAGE)	CRUDE DEATH RATE	AGE-ADJUSTED DEATH RATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
1	LASSEN	30,969	6.7	21.5 *	20.5 *	8.0	43.0
2	MARIN	262,105	102.3	39.0	24.4	19.6	29.2
3	ALPINE	1,157	0.3	28.8 *	25.7 *	0.0	335.8
4	MARIPOSA	18,088	8.7	47.9 *	26.0 *	11.7	49.9
5	SANTA CLARA	1,915,102	543.7	28.4	26.6	24.3	28.8
6	CALAVERAS	44,899	23.0	51.2	27.0	17.1	40.5
7	EL DORADO	183,140	64.7	35.3	27.0	20.8	34.5
8	SAN MATEO	764,379	269.7	35.3	27.1	23.9	30.4
9	IMPERIAL	185,328	50.7	27.3	28.5	21.2	37.5
10	SAN FRANCISCO	863,108	330.7	38.3	28.8	25.6	31.9
11	SANTA CRUZ	274,697	83.0	30.2	29.1	23.2	36.1
12	COLUSA	22,271	6.7	29.9 *	29.4 *	11.5	61.6
13	PLUMAS	19,586	9.7	49.4 *	31.0 *	14.6	57.5
14	SANTA BARBARA	444,900	176.0	39.6	32.2	27.4	37.1
15	TRINITY	13,562	8.0	59.0 *	32.2 *	13.9	63.5
16	SAN BENITO	57,584	17.3	30.1 *	32.3 *	18.9	51.5
17	NAPA	141,546	62.3	44.0	32.4	24.9	41.5
18	MONTEREY	436,242	146.7	33.6	32.5	27.2	37.9
19	NEVADA	98,190	58.0	59.1	32.9	25.0	42.6
20	INYO	18,640	9.7	51.9 *	33.1 *	15.7	61.6
21	LOS ANGELES	10,185,487	3,517.3	34.5	33.2	32.1	34.3
22	PLACER	370,738	182.0	49.1	33.8	28.8	38.7
23	SONOMA	501,182	228.7	45.6	33.8	29.3	38.3
24	AMADOR	37,314	25.0	67.0	33.8	21.9	49.9
25	KINGS	149,702	38.0	25.4	34.1	24.1	46.7
26	RIVERSIDE	2,329,256	857.0	36.8	34.2	31.9	36.5
27	SAN DIEGO	3,275,084	1,228.7	37.5	34.3	32.4	36.3
HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: HDS-3					34.8		
28	ORANGE	3,161,218	1,225.3	38.8	34.9	32.9	36.9
29	SISKIYOU	44,500	26.3	59.2	35.2	23.1	51.4
	CALIFORNIA	39,059,809	14,753.3	37.8	35.3	34.8	35.9
30	DEL NORTE	27,119	11.7	43.0 *	35.6 *	18.2	62.7
31	VENTURA	852,013	337.0	39.6	35.7	31.8	39.6
32	SIERRA	3,147	2.0	63.6 *	35.9 *	4.4	129.8
33	ALAMEDA	1,619,679	617.0	38.1	36.7	33.8	39.6
34	MENDOCINO	88,429	42.7	48.2	36.7	26.6	49.5
35	KERN	883,327	258.7	29.3	36.8	32.2	41.3
36	YOLO	212,686	73.0	34.3	37.2	29.1	46.7
37	TUOLUMNE	54,525	37.7	69.1	37.5	26.5	51.6
38	TEHAMA	63,970	31.7	49.5	37.8	25.8	53.4
39	BUTTE	224,363	123.7	55.1	39.3	32.2	46.4
40	MODOC	9,507	6.7	70.1 *	40.3 *	15.8	84.5
41	SAN BERNARDINO	2,129,851	698.7	32.8	40.5	37.4	43.5
42	LAKE	65,180	38.7	59.3	40.8	29.0	55.9
43	MONO	13,818	1.3	9.6 *	40.9 *	2.3	188.3
44	TULARE	463,291	158.7	34.2	40.9	34.5	47.4
45	MADERA	154,956	64.3	41.5	41.1	31.7	52.5
46	SHASTA	178,777	104.3	58.4	41.4	33.3	49.6
47	SACRAMENTO	1,489,952	636.7	42.7	41.7	38.4	45.0
48	STANISLAUS	538,372	216.3	40.2	42.1	36.4	47.8
49	CONTRA COSTA	1,116,882	564.0	50.5	43.4	39.8	47.1
50	MERCED	269,729	96.0	35.6	43.4	35.2	53.0
51	SOLANO	429,267	199.7	46.5	43.5	37.5	49.6
52	FRESNO	979,357	397.0	40.5	44.7	40.2	49.1
53	GLENN	28,960	15.0	51.8 *	46.7 *	26.1	77.0
54	SAN LUIS OBISPO	276,844	195.0	70.4	47.4	40.6	54.2
55	SAN JOAQUIN	727,547	322.7	44.3	48.1	42.8	53.4
56	SUTTER	97,618	52.7	54.0	49.2	36.8	64.5
57	YUBA	75,579	36.3	48.1	57.5	40.3	79.4
58	HUMBOLDT	135,090	108.3	80.2	65.6	53.1	78.2

* 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, VRBIS Death Statistical Master File Plus 2014 - 2016, created on August 8, 2017. 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, June 2017.

DEATHS DUE TO INFLUENZA/PNEUMONIA, 2014-2016



The crude death rate from influenza/pneumonia for California was 15.4 deaths per 100,000 population, a risk of dying from influenza/pneumonia equivalent to approximately one death for every 6,506.0 persons. The crude death rate for California was based on a 2014 through 2016 three-year average number of deaths equaling 6,003.7 and a population count of 39,059,809 as of July 1, 2015. Among counties with reliable rates, the crude death rate ranged from 23.9 in Imperial County to 10.0 in Ventura County, a factor of 2.4 to 1.

The age-adjusted death rate from influenza/pneumonia for California during the 2014 through 2016 three-year period was 14.3 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 24.9 in Imperial County to 8.0 in San Luis Obispo County.

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

The California age-adjusted death rate from influenza/pneumonia for the 2011-2013 period was 16.1 per 100,000 population.

**TABLE 11
DEATHS DUE TO INFLUENZA/PNEUMONIA
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE
CALIFORNIA COUNTIES, 2014-2016**

RANK ORDER	COUNTY OF RESIDENCE	2015 POPULATION	2014-2016 DEATHS (AVERAGE)	CRUDE DEATH RATE	AGE-ADJUSTED DEATH RATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: NOT ESTABLISHED							
1	ALPINE	1,157	0.0	-	-	-	-
2	SIERRA	3,147	0.3	10.6 *	4.2 *	0.0	54.4
3	MARIPOSA	18,088	1.7	9.2 *	4.9 *	0.4	19.6
4	INYO	18,640	2.0	10.7 *	5.7 *	0.7	20.6
5	SAN LUIS OBISPO	276,844	33.3	12.0	8.0	5.5	11.3
6	VENTURA	852,013	85.3	10.0	9.0	7.2	11.2
7	COLUSA	22,271	2.0	9.0 *	9.2 *	1.1	33.3
8	SAN DIEGO	3,275,084	334.7	10.2	9.3	8.3	10.3
9	PLACER	370,738	50.7	13.7	9.4	7.0	12.4
10	SANTA CLARA	1,915,102	194.7	10.2	9.5	8.1	10.8
11	SONOMA	501,182	65.7	13.1	9.6	7.4	12.2
12	HUMBOLDT	135,090	16.0	11.8 *	9.7 *	5.6	15.8
13	SANTA BARBARA	444,900	53.0	11.9	9.8	7.3	12.8
14	CONTRA COSTA	1,116,882	131.7	11.8	10.0	8.3	11.7
15	MARIN	262,105	43.3	16.5	10.3	7.5	13.9
16	SAN FRANCISCO	863,108	122.7	14.2	10.5	8.6	12.3
17	TRINITY	13,562	2.7	19.7 *	10.5 *	1.9	32.7
18	RIVERSIDE	2,329,256	264.0	11.3	10.6	9.3	11.9
19	SAN MATEO	764,379	106.0	13.9	10.6	8.6	12.7
20	SANTA CRUZ	274,697	32.7	11.9	11.4	7.8	16.1
21	MONTEREY	436,242	50.7	11.6	11.4	8.5	15.0
22	YOLO	212,686	25.0	11.8	12.4	8.0	18.3
23	NEVADA	98,190	22.0	22.4	12.5	7.9	19.0
24	ALAMEDA	1,619,679	214.7	13.3	12.6	10.9	14.3
25	NAPA	141,546	25.7	18.1	12.8	8.3	18.7
26	PLUMAS	19,586	4.3	22.1 *	12.9 *	3.8	32.0
27	EL DORADO	183,140	31.3	17.1	12.9	8.8	18.3
28	SAN BERNARDINO	2,129,851	233.3	11.0	13.2	11.5	15.0
29	TEHAMA	63,970	10.7	16.7 *	13.3 *	6.6	24.1
30	MENDOCINO	88,429	16.3	18.5 *	13.7 *	7.9	22.2
31	MADERA	154,956	21.3	13.8	13.7	8.5	20.9
32	CALAVERAS	44,899	11.3	25.2 *	14.3 *	7.2	25.3
	CALIFORNIA	39,059,809	6,003.7	15.4	14.3	14.0	14.7
33	KERN	883,327	104.0	11.8	14.4	11.6	17.2
34	GLENN	28,960	4.7	16.1 *	14.4 *	4.4	34.5
35	SHASTA	178,777	37.0	20.7	14.9	10.5	20.5
36	ORANGE	3,161,218	518.0	16.4	14.9	13.6	16.2
37	BUTTE	224,363	45.7	20.4	14.9	10.9	19.9
38	SACRAMENTO	1,489,952	234.3	15.7	15.2	13.2	17.1
39	TUOLUMNE	54,525	15.0	27.5 *	15.3 *	8.6	25.2
40	LASSEN	30,969	5.0	16.1 *	15.9 *	5.2	37.2
41	YUBA	75,579	11.0	14.6 *	16.0 *	8.0	28.5
42	SUTTER	97,618	17.0	17.4 *	16.0 *	9.3	25.6
43	DEL NORTE	27,119	5.3	19.7 *	16.5 *	5.6	37.5
44	SOLANO	429,267	78.7	18.3	16.9	13.4	21.1
45	AMADOR	37,314	13.0	34.8 *	17.3 *	9.2	29.6
46	KINGS	149,702	20.7	13.8	17.4	10.7	26.7
47	SAN JOAQUIN	727,547	120.7	16.6	17.8	14.6	21.0
48	MODOC	9,507	3.0	31.6 *	17.8 *	3.7	52.1
49	MERCED	269,729	39.3	14.6	17.9	12.8	24.5
50	FRESNO	979,357	167.0	17.1	18.6	15.8	21.5
51	STANISLAUS	538,372	96.0	17.8	18.7	15.1	22.8
52	SAN BENITO	57,584	10.3	17.9 *	18.7 *	9.1	34.1
53	SISKIYOU	44,500	12.7	28.5 *	19.1 *	10.1	32.9
54	LAKE	65,180	19.0	29.2 *	19.6 *	11.8	30.6
55	LOS ANGELES	10,185,487	2,083.7	20.5	19.6	18.8	20.5
56	TULARE	463,291	88.0	19.0	22.6	18.1	27.8
57	IMPERIAL	185,328	44.3	23.9	24.9	18.1	33.4
58	MONO	13,818	1.3	9.6 *	25.0 *	1.4	114.9

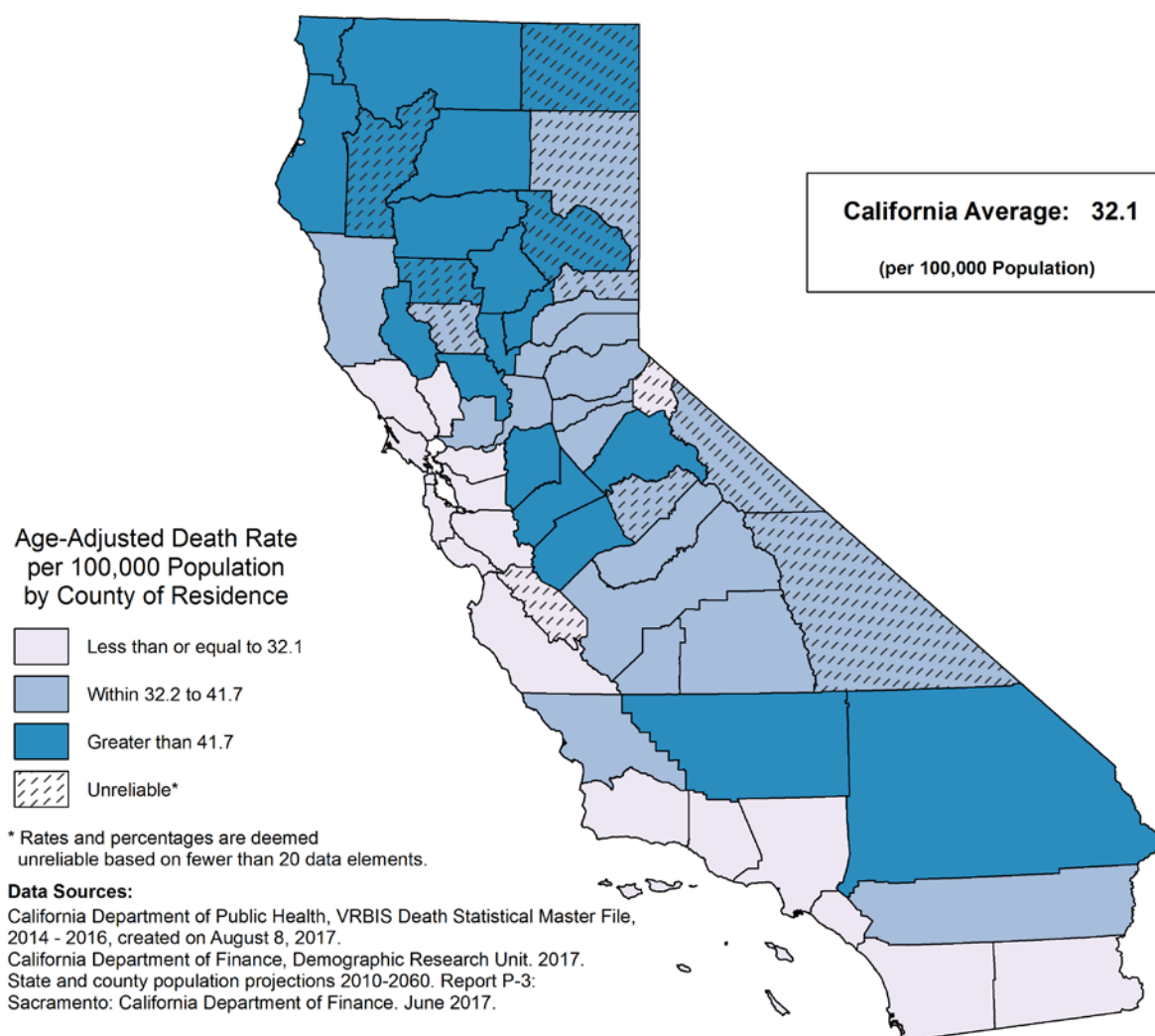
- Rates, percentages, and confidence limits are not calculated for zero occurrences.

* 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, VRBIS Death Statistical Master File Plus 2014 - 2016, created on August 8, 2017. 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, June 2017.

DEATHS DUE TO CHRONIC LOWER RESPIRATORY DISEASE, 2014-2016



The crude death rate from chronic lower respiratory disease for California was 34.1 deaths per 100,000 population, a risk of dying from chronic lower respiratory disease equivalent to approximately one death for every 2,934.3 persons. The crude death rate for California was based on a 2014 through 2016 three-year average number of deaths equaling 13,311.7 and a population count of 39,059,809 as of July 1, 2015. Among counties with reliable rates, the crude death rate ranged from 110.1 in Siskiyou County to 20.4 in Santa Clara County, a factor of 5.4 to 1.

The age-adjusted death rate from chronic lower respiratory disease for California during the 2014 through 2016 three-year period was 32.1 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 73.7 in Del Norte County to 18.0 in San Francisco County.

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

The California age-adjusted death rate from chronic lower respiratory disease for the 2011-2013 period was 35.4 per 100,000 population.

**TABLE 12
DEATHS DUE TO CHRONIC LOWER RESPIRATORY DISEASE
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE
CALIFORNIA COUNTIES, 2014-2016**

RANK ORDER	COUNTY OF RESIDENCE	2015 POPULATION	2014-2016 DEATHS (AVERAGE)	CRUDE DEATH RATE	AGE-ADJUSTED DEATH RATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: NOT ESTABLISHED							
1	SAN FRANCISCO	863,108	202.0	23.4	18.0	15.5	20.5
2	MARIN	262,105	77.3	29.5	18.8	14.8	23.5
3	SANTA CLARA	1,915,102	391.0	20.4	19.5	17.6	21.5
4	SAN MATEO	764,379	204.7	26.8	21.2	18.3	24.2
5	IMPERIAL	185,328	38.0	20.5	21.4	15.2	29.4
6	ALPINE	1,157	0.3	28.8 *	22.6 *	0.0	296.1
7	SANTA CRUZ	274,697	69.7	25.4	24.4	19.0	30.9
8	ALAMEDA	1,619,679	428.0	26.4	25.4	23.0	27.9
9	ORANGE	3,161,218	917.0	29.0	26.5	24.8	28.3
10	MONTEREY	436,242	120.0	27.5	26.8	21.9	31.7
11	NAPA	141,546	53.0	37.4	27.7	20.7	36.2
12	SANTA BARBARA	444,900	145.0	32.6	27.9	23.3	32.5
13	LOS ANGELES	10,185,487	2,955.7	29.0	28.2	27.1	29.2
14	SONOMA	501,182	195.3	39.0	28.8	24.6	32.9
15	SAN DIEGO	3,275,084	1,006.7	30.7	28.8	27.0	30.6
16	CONTRA COSTA	1,116,882	373.7	33.5	29.0	26.0	32.0
17	SAN BENITO	57,584	16.3	28.4 *	29.9 *	17.2	48.3
18	VENTURA	852,013	285.7	33.5	30.7	27.1	34.3
	CALIFORNIA	39,059,809	13,311.7	34.1	32.1	31.6	32.7
19	SAN LUIS OBISPO	276,844	131.7	47.6	32.4	26.8	38.0
20	PLACER	370,738	174.0	46.9	32.7	27.8	37.6
21	FRESNO	979,357	297.3	30.4	33.8	29.9	37.7
22	EL DORADO	183,140	89.0	48.6	35.8	28.7	44.0
23	MONO	13,818	2.3	16.9 *	36.1 *	5.5	119.8
24	SOLANO	429,267	173.0	40.3	37.2	31.6	42.8
25	MADERA	154,956	59.0	38.1	37.3	28.4	48.2
26	LASSEN	30,969	13.7	44.1 *	38.0 *	20.6	64.2
27	CALAVERAS	44,899	33.0	73.5	38.4	26.4	53.9
28	COLUSA	22,271	8.7	38.9 *	38.9 *	17.5	74.7
29	NEVADA	98,190	68.0	69.3	38.9	30.2	49.3
30	AMADOR	37,314	28.0	75.0	39.0	25.9	56.3
31	SACRAMENTO	1,489,952	598.0	40.1	39.5	36.3	42.7
32	TULARE	463,291	157.7	34.0	39.8	33.5	46.1
33	SIERRA	3,147	2.3	74.1 *	39.8 *	6.0	132.2
34	MENDOCINO	88,429	49.3	55.8	40.2	29.7	53.0
35	INYO	18,640	12.7	68.0 *	40.9 *	21.6	70.4
36	KINGS	149,702	46.0	30.7	41.0	30.0	54.7
37	MARIPOSA	18,088	14.7	81.1 *	41.1 *	22.8	68.1
38	RIVERSIDE	2,329,256	1,032.3	44.3	41.1	38.6	43.6
39	MERCED	269,729	93.7	34.7	42.3	34.2	51.8
40	YOLO	212,686	83.0	39.0	43.5	34.6	53.9
41	HUMBOLDT	135,090	76.0	56.3	45.4	35.7	56.8
42	BUTTE	224,363	140.3	62.5	45.8	38.1	53.6
43	SUTTER	97,618	50.0	51.2	46.5	34.5	61.3
44	TRINITY	13,562	12.3	90.9 *	46.7 *	24.4	81.0
45	PLUMAS	19,586	17.3	88.5 *	47.3 *	27.7	75.3
46	STANISLAUS	538,372	253.3	47.1	48.4	42.4	54.5
47	TUOLUMNE	54,525	48.0	88.0	48.9	36.1	64.9
48	SAN JOAQUIN	727,547	330.7	45.4	49.1	43.7	54.4
49	GLENN	28,960	17.0	58.7 *	49.1 *	28.6	78.7
50	SAN BERNARDINO	2,129,851	900.7	42.3	52.1	48.6	55.5
51	KERN	883,327	389.0	44.0	55.0	49.5	60.6
52	LAKE	65,180	59.7	91.5	58.0	44.2	74.7
53	SISKIYOU	44,500	49.0	110.1	62.9	46.5	83.1
54	TEHAMA	63,970	56.0	87.5	64.5	48.7	83.8
55	SHASTA	178,777	176.0	98.4	66.9	56.9	76.9
56	YUBA	75,579	50.7	67.0	72.9	54.2	96.0
57	DEL NORTE	27,119	25.7	94.6	73.7	48.0	108.3
58	MODOC	9,507	13.3	140.2 *	78.7 *	42.3	133.8

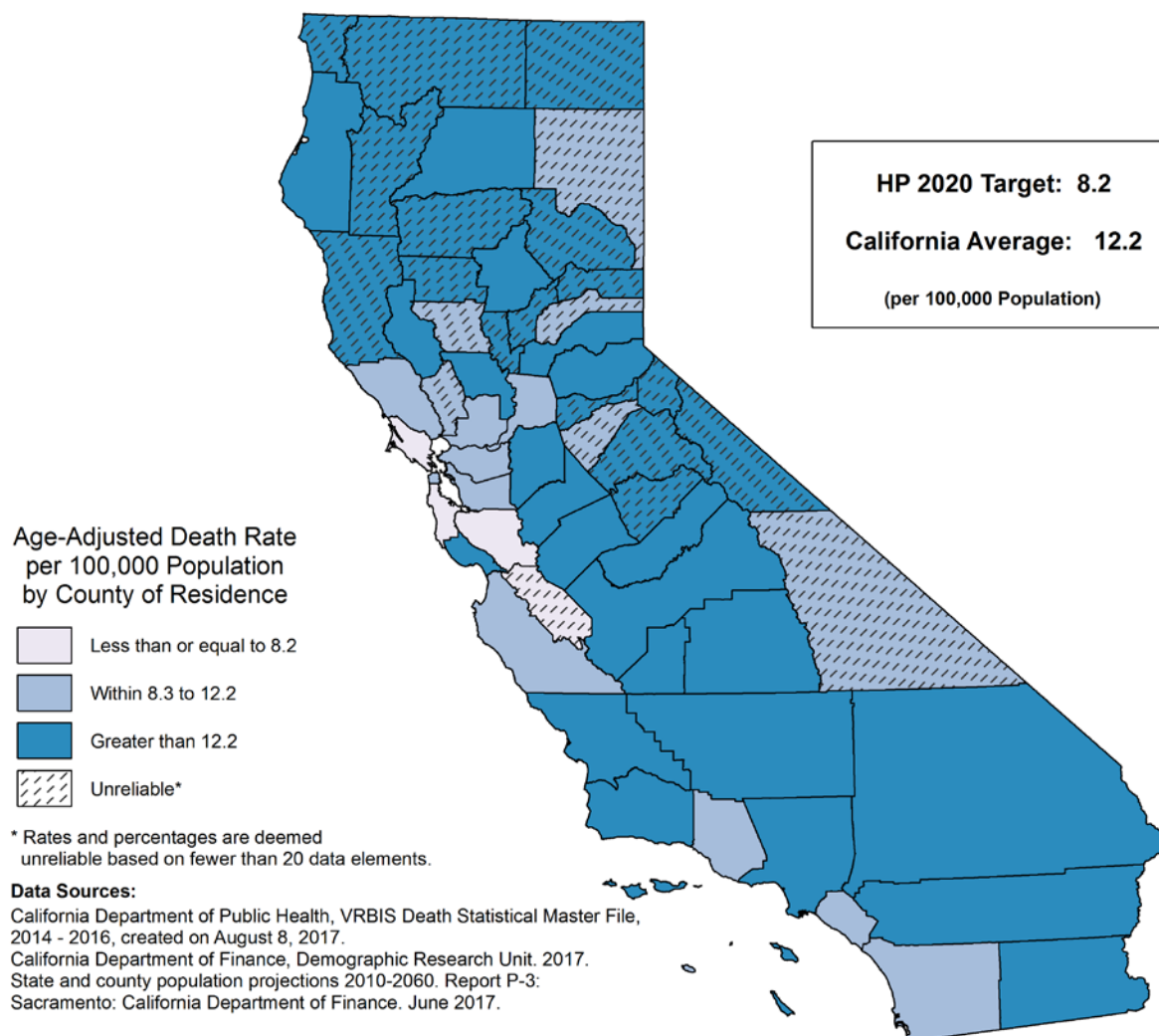
- Rates, percentages, and confidence limits are not calculated for zero occurrences.

* 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, VRBIS Death Statistical Master File Plus 2014 - 2016, created on August 8, 2017. 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, June 2017.

DEATHS DUE TO CHRONIC LIVER DISEASE AND CIRRHOSIS, 2014-2016



The crude death rate from chronic liver disease and cirrhosis for California was 13.3 deaths per 100,000 population, a risk of dying from chronic liver disease and cirrhosis equivalent to approximately one death for every 7,490.9 persons. The crude death rate for California was based on a 2014 through 2016 three-year average number of deaths equaling 5,214.3 and a population count of 39,059,809 as of July 1, 2015. Among counties with reliable rates, the crude death rate ranged from 36.8 in Lake County to 8.9 in Santa Clara County, a factor of 4.1 to 1.

The age-adjusted death rate from chronic liver disease and cirrhosis for California during the 2014 through 2016 three-year period was 12.2 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 28.0 in Lake County to 5.8 in Marin County.

Three 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. One county with an unreliable rate also met the objective. The California age-adjusted death rate due to chronic liver disease and cirrhosis did not meet the national objective.

The California age-adjusted death rate from chronic liver disease and cirrhosis for the 2011-2013 period was 11.6 per 100,000 population.

**TABLE 13
DEATHS DUE TO CHRONIC LIVER DISEASE AND CIRRHOSIS
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE
CALIFORNIA COUNTIES, 2014-2016**

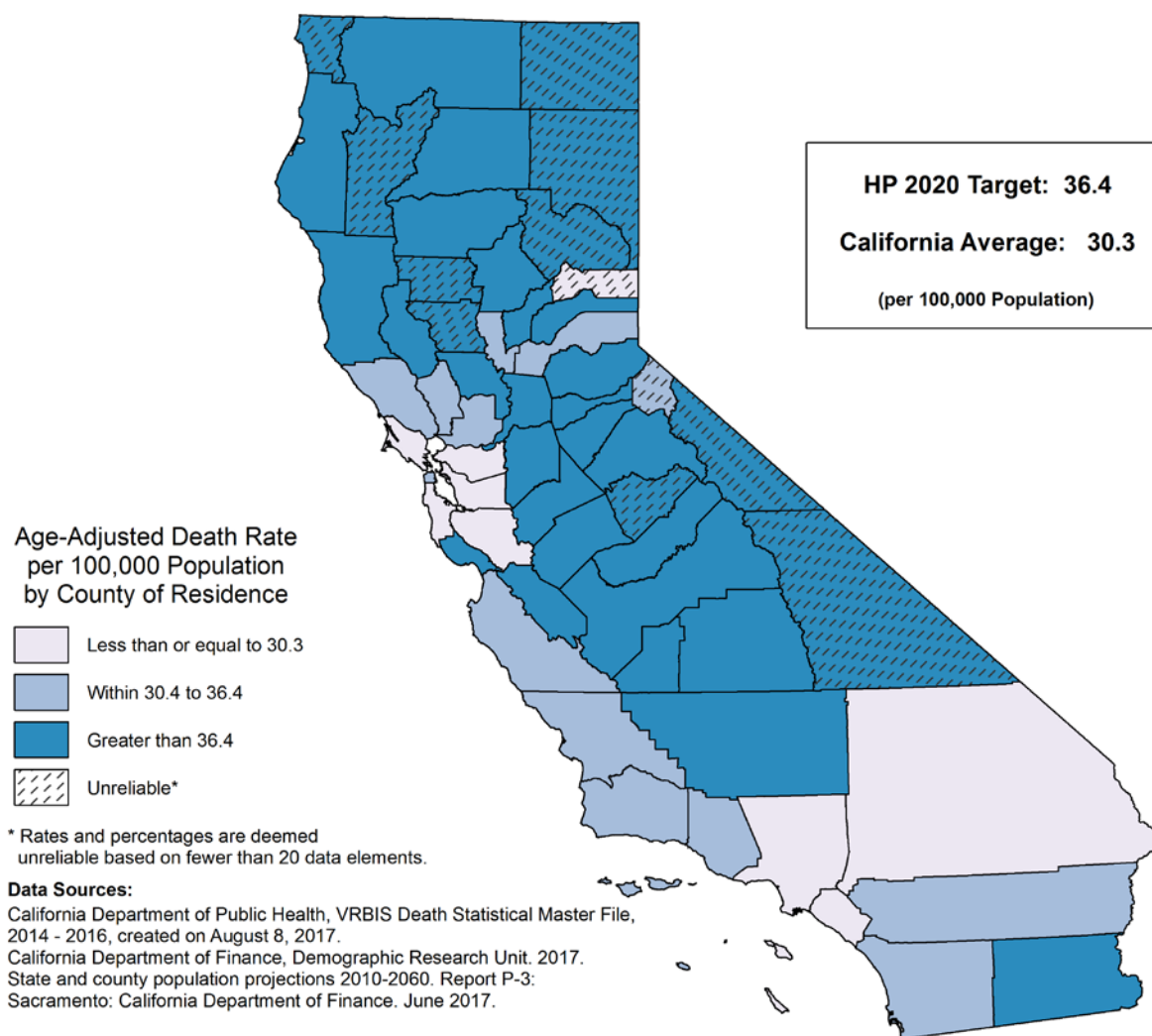
RANK ORDER	COUNTY OF RESIDENCE	2015 POPULATION	2014-2016 DEATHS (AVERAGE)	CRUDE DEATH RATE	AGE-ADJUSTED DEATH RATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
1	MARIN	262,105	24.3	9.3	5.8	3.8	8.7
2	SAN BENITO	57,584	4.7	8.1 *	7.3 *	2.2	17.4
3	SANTA CLARA	1,915,102	170.7	8.9	8.1	6.9	9.3
4	SAN MATEO	764,379	77.7	10.2	8.2	6.5	10.3
HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: SA-11					8.2		
5	ALAMEDA	1,619,679	153.0	9.4	8.6	7.2	10.0
6	CONTRA COSTA	1,116,882	116.3	10.4	8.6	7.0	10.2
7	CALAVERAS	44,899	6.3	14.1 *	8.9 *	3.4	19.0
8	LASSEN	30,969	3.7	11.8 *	9.0 *	2.3	23.9
9	SAN FRANCISCO	863,108	95.3	11.0	9.3	7.5	11.3
10	VENTURA	852,013	102.0	12.0	10.4	8.3	12.5
11	ORANGE	3,161,218	371.0	11.7	10.4	9.4	11.5
12	MONTEREY	436,242	47.0	10.8	10.5	7.7	13.9
13	SAN DIEGO	3,275,084	373.7	11.4	10.6	9.5	11.7
14	SONOMA	501,182	67.3	13.4	10.6	8.2	13.5
15	NAPA	141,546	19.0	13.4 *	11.0 *	6.6	17.2
16	SOLANO	429,267	56.7	13.2	11.4	8.7	14.8
17	NEVADA	98,190	14.7	14.9 *	11.5 *	6.4	19.0
18	INYO	18,640	3.3	17.9 *	11.7 *	2.7	32.4
19	SACRAMENTO	1,489,952	189.0	12.7	11.7	10.0	13.4
20	COLUSA	22,271	2.7	12.0 *	11.9 *	2.1	36.9
	CALIFORNIA	39,059,809	5,214.3	13.3	12.2	11.8	12.5
21	MONO	13,818	2.3	16.9 *	12.4 *	1.9	41.0
22	SANTA CRUZ	274,697	40.3	14.7	12.6	9.0	17.1
23	SANTA BARBARA	444,900	56.7	12.7	12.6	9.6	16.4
24	PLACER	370,738	60.0	16.2	12.7	9.7	16.4
25	MENDOCINO	88,429	15.3	17.3 *	12.9 *	7.3	21.2
26	RIVERSIDE	2,329,256	329.7	14.2	13.0	11.6	14.5
27	LOS ANGELES	10,185,487	1,435.0	14.1	13.1	12.4	13.8
28	AMADOR	37,314	7.0	18.8 *	13.5 *	5.4	27.8
29	SAN LUIS OBISPO	276,844	45.7	16.5	13.7	10.0	18.3
30	YOLO	212,686	29.0	13.6	14.5	9.7	20.8
31	YUBA	75,579	10.7	14.1 *	14.7 *	7.3	26.6
32	MERCED	269,729	37.3	13.8	14.9	10.5	20.6
33	EL DORADO	183,140	37.3	20.4	15.0	10.6	20.6
34	SUTTER	97,618	16.7	17.1 *	15.0 *	8.7	24.1
35	GLENN	28,960	4.7	16.1 *	15.0 *	4.6	36.0
36	STANISLAUS	538,372	83.7	15.5	15.2	12.1	18.9
37	KERN	883,327	125.7	14.2	15.3	12.6	18.0
38	SAN BERNARDINO	2,129,851	323.0	15.2	15.5	13.8	17.3
39	FRESNO	979,357	152.3	15.6	16.4	13.8	19.1
40	IMPERIAL	185,328	29.3	15.8	16.6	11.1	23.7
41	SAN JOAQUIN	727,547	123.0	16.9	16.6	13.6	19.6
42	MARIPOSA	18,088	3.3	18.4 *	16.8 *	3.9	46.8
43	SIERRA	3,147	1.3	42.4 *	17.5 *	1.0	80.5
44	KINGS	149,702	22.7	15.1	17.6	11.1	26.5
45	BUTTE	224,363	46.0	20.5	18.4	13.5	24.6
46	TULARE	463,291	79.0	17.1	18.4	14.6	23.0
47	TEHAMA	63,970	15.3	24.0 *	19.3 *	10.9	31.7
48	SHASTA	178,777	47.0	26.3	19.5	14.4	26.0
49	SISKIYOU	44,500	11.7	26.2 *	19.9 *	10.1	35.0
50	TUOLUMNE	54,525	15.0	27.5 *	20.2 *	11.3	33.3
51	HUMBOLDT	135,090	32.0	23.7	20.3	13.9	28.6
52	DEL NORTE	27,119	7.3	27.0 *	20.3 *	8.4	41.2
53	MADERA	154,956	33.0	21.3	20.7	14.3	29.1
54	PLUMAS	19,586	5.3	27.2 *	21.0 *	7.1	47.8
55	MODOC	9,507	2.0	21.0 *	22.5 *	2.7	81.3
56	TRINITY	13,562	5.3	39.3 *	26.2 *	8.9	59.6
57	LAKE	65,180	24.0	36.8	28.0	18.0	41.7
58	ALPINE	1,157	1.0	86.4 *	92.0 *	2.3	512.6

* 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, VRBIS Death Statistical Master File Plus 2014 - 2016, created on August 8, 2017. 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, June 2017.

DEATHS DUE TO ACCIDENTS (UNINTENTIONAL INJURIES), 2014-2016



The crude death rate from accidents for California was 31.7 deaths per 100,000 population, a risk of dying from an accident equivalent to approximately one death for every 3,158.2 persons. The crude death rate for California was based on a 2014 through 2016 three-year average number of deaths equaling 12,367.7 and a population count of 39,059,809 as of July 1, 2015. Among counties with reliable rates, the crude death rate ranged from 100.2 in Lake County to 23.0 in Los Angeles County, a factor of 4.4 to 1.

The age-adjusted death rate from accidents for California during the 2014 through 2016 three-year period was 30.3 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 88.5 in Lake County to 20.9 in San Mateo County.

Twenty 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 two counties with unreliable rates met the objective.

The California age-adjusted death rate from accidents for the 2011-2013 period was 27.7 per 100,000 population.

TABLE 14
DEATHS DUE TO ACCIDENTS (UNINTENTIONAL INJURIES)
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE
CALIFORNIA COUNTIES, 2014-2016

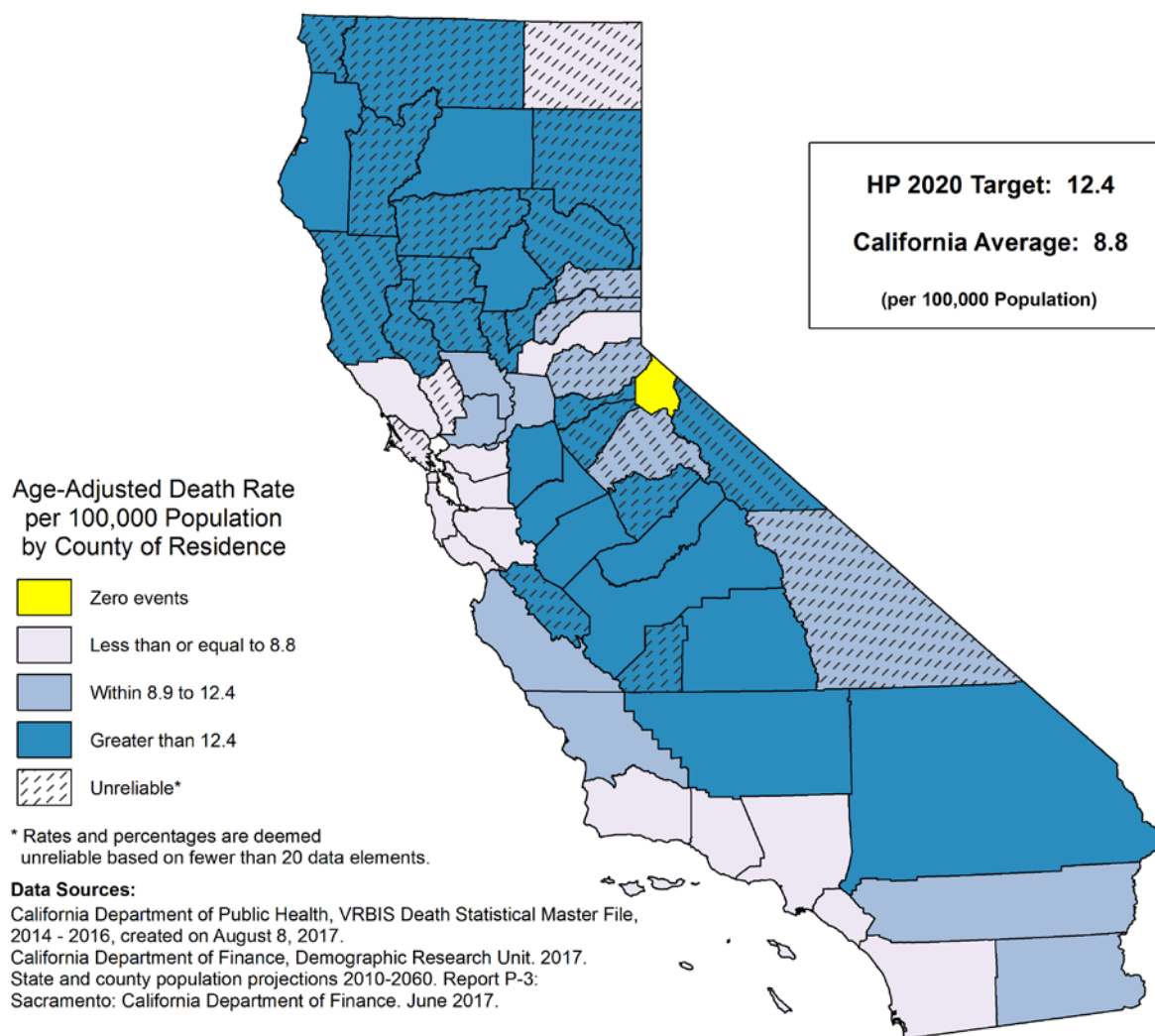
RANK ORDER	COUNTY OF RESIDENCE	2015 POPULATION	2014-2016 DEATHS (AVERAGE)	CRUDE DEATH RATE	AGE-ADJUSTED DEATH RATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
1	SAN MATEO	764,379	181.3	23.7	20.9	17.8	24.1
2	LOS ANGELES	10,185,487	2,347.0	23.0	22.2	21.3	23.1
3	SANTA CLARA	1,915,102	486.7	25.4	24.0	21.8	26.1
4	ORANGE	3,161,218	815.0	25.8	24.5	22.8	26.2
5	ALAMEDA	1,619,679	426.7	26.3	24.9	22.5	27.3
6	CONTRA COSTA	1,116,882	315.3	28.2	26.1	23.2	29.1
7	MARIN	262,105	87.0	33.2	27.2	21.8	33.5
8	SAN BERNARDINO	2,129,851	554.7	26.0	27.5	25.1	29.8
9	SIERRA	3,147	1.3	42.4 *	29.6 *	1.6	136.5
10	MONTEREY	436,242	134.0	30.7	30.3	25.1	35.5
	CALIFORNIA	39,059,809	12,367.7	31.7	30.3	29.8	30.9
11	VENTURA	852,013	275.7	32.4	30.8	27.1	34.5
12	SAN DIEGO	3,275,084	1,078.0	32.9	31.2	29.3	33.1
13	NAPA	141,546	52.3	37.0	31.4	23.5	41.2
14	PLACER	370,738	142.3	38.4	31.8	26.4	37.3
15	SANTA BARBARA	444,900	154.7	34.8	32.4	27.2	37.7
16	SAN FRANCISCO	863,108	342.3	39.7	33.4	29.8	37.1
17	SUTTER	97,618	34.0	34.8	33.9	23.5	47.3
18	SONOMA	501,182	196.7	39.2	34.1	29.1	39.1
19	RIVERSIDE	2,329,256	846.0	36.3	35.7	33.2	38.1
20	ALPINE	1,157	0.7	57.6 *	35.9 *	0.2	268.3
21	SAN LUIS OBISPO	276,844	109.0	39.4	36.0	28.8	43.1
22	SOLANO	429,267	159.3	37.1	36.1	30.4	41.8
HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: IVP-11					36.4		
23	YOLO	212,686	76.0	35.7	37.3	29.4	46.7
24	SACRAMENTO	1,489,952	578.3	38.8	37.4	34.3	40.5
25	KINGS	149,702	51.3	34.3	38.6	28.8	50.7
26	TULARE	463,291	166.7	36.0	39.0	33.0	45.0
27	STANISLAUS	538,372	224.0	41.6	42.3	36.7	47.9
28	SANTA CRUZ	274,697	118.7	43.2	42.4	34.5	50.3
29	IMPERIAL	185,328	75.7	40.8	42.5	33.4	53.2
30	SAN JOAQUIN	727,547	303.7	41.7	42.5	37.7	47.4
31	FRESNO	979,357	406.3	41.5	43.8	39.5	48.1
32	NEVADA	98,190	51.3	52.3	45.4	33.9	59.7
33	MADERA	154,956	69.7	45.0	45.8	35.7	58.0
34	SAN BENITO	57,584	24.7	42.8	46.3	29.9	68.5
35	TEHAMA	63,970	33.7	52.6	46.6	32.2	65.3
36	EL DORADO	183,140	89.7	49.0	46.8	37.6	57.5
37	COLUSA	22,271	11.0	49.4 *	47.5 *	23.7	84.9
38	MODOC	9,507	5.3	56.1 *	47.9 *	16.3	109.0
39	MERCED	269,729	128.7	47.7	51.8	42.7	60.9
40	CALAVERAS	44,899	25.0	55.7	52.9	34.2	78.1
41	AMADOR	37,314	22.7	60.7	53.8	34.0	81.0
42	KERN	883,327	445.7	50.5	54.0	48.9	59.1
43	YUBA	75,579	38.7	51.2	54.0	38.3	73.9
44	SHASTA	178,777	104.7	58.5	54.0	43.1	65.0
45	LASSEN	30,969	19.7	63.5 *	55.8 *	33.9	86.4
46	INYO	18,640	11.3	60.8 *	59.5 *	30.1	105.6
47	TUOLUMNE	54,525	43.0	78.9	60.8	44.0	82.0
48	GLENN	28,960	18.0	62.2 *	61.2 *	36.3	96.8
49	MENDOCINO	88,429	58.0	65.6	61.6	46.7	79.6
50	BUTTE	224,363	159.0	70.9	63.2	52.8	73.6
51	DEL NORTE	27,119	19.3	71.3 *	63.6 *	38.5	99.0
52	MARIPOSA	18,088	14.7	81.1 *	68.9 *	38.3	114.3
53	HUMBOLDT	135,090	97.0	71.8	69.2	56.1	84.4
54	SISKIYOU	44,500	36.0	80.9	70.6	49.4	97.7
55	MONO	13,818	5.0	36.2 *	71.2 *	23.1	166.2
56	PLUMAS	19,586	17.3	88.5 *	78.6 *	46.0	125.2
57	LAKE	65,180	65.3	100.2	88.5	68.3	112.7
58	TRINITY	13,562	12.7	93.4 *	99.5 *	52.5	171.4

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

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

Sources: California Department of Public Health, VRBIS Death Statistical Master File Plus 2014 - 2016, created on August 8, 2017. 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, June 2017.

DEATHS DUE TO MOTOR VEHICLE TRAFFIC CRASHES, 2014-2016



The crude death rate from motor vehicle traffic crashes for California was 9.1 deaths per 100,000 population, a risk of dying from a motor vehicle traffic crash equivalent to approximately one death for every 10,976.0 persons. The crude death rate for California was based on a 2014 through 2016 three-year average number of deaths equaling 3,558.7 and a population count of 39,059,809 as of July 1, 2015. Among counties with reliable rates, the crude death rate ranged from 18.5 in Merced County to 4.9 in San Francisco County, a factor of 3.8 to 1.

The age-adjusted death rate from motor vehicle traffic crashes for California during the 2014 through 2016 three-year period was 8.8 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 19.3 in Merced County to 4.3 in San Francisco County.

Twenty 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 eight counties with unreliable rates and one county with no death due to motor vehicle traffic crashes met the objective.

The California age-adjusted death rate from motor vehicle traffic crashes for the 2011-2013 period was 7.6 per 100,000 population.

**TABLE 15
DEATHS DUE TO MOTOR VEHICLE TRAFFIC CRASHES
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE
CALIFORNIA COUNTIES, 2014-2016**

RANK ORDER	COUNTY OF RESIDENCE	2015 POPULATION	2014-2016 DEATHS (AVERAGE)	CRUDE DEATH RATE	AGE-ADJUSTED DEATH RATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
1	ALPINE	1,157	0.0	-	-	-	-
2	SAN FRANCISCO	863,108	42.0	4.9	4.3	3.1	5.9
3	SAN MATEO	764,379	40.0	5.2	5.0	3.6	6.8
4	ALAMEDA	1,619,679	91.7	5.7	5.4	4.4	6.6
5	MARIN	262,105	14.3	5.5 *	5.5 *	3.1	9.2
6	NAPA	141,546	9.0	6.4 *	5.9 *	2.7	11.3
7	ORANGE	3,161,218	202.7	6.4	6.2	5.3	7.1
8	SANTA BARBARA	444,900	32.7	7.3	6.7	4.6	9.4
9	SANTA CLARA	1,915,102	133.3	7.0	6.8	5.6	8.0
10	SAN DIEGO	3,275,084	233.0	7.1	6.8	6.0	7.7
11	CONTRA COSTA	1,116,882	80.3	7.2	7.0	5.6	8.7
12	LOS ANGELES	10,185,487	783.7	7.7	7.4	6.9	7.9
13	VENTURA	852,013	65.3	7.7	7.5	5.8	9.5
14	MODOC	9,507	0.7	7.0 *	7.7 *	0.0	57.4
15	SONOMA	501,182	42.3	8.4	8.0	5.8	10.8
16	PLACER	370,738	30.3	8.2	8.1	5.4	11.5
17	SANTA CRUZ	274,697	24.0	8.7	8.7	5.5	12.9
	CALIFORNIA	39,059,809	3,558.7	9.1	8.8	8.6	9.1
18	TUOLUMNE	54,525	6.7	12.2 *	9.2 *	3.6	19.3
19	MONTEREY	436,242	41.3	9.5	9.4	6.8	12.8
20	SACRAMENTO	1,489,952	144.7	9.7	9.5	7.9	11.1
21	NEVADA	98,190	10.0	10.2 *	10.0 *	4.8	18.4
22	EL DORADO	183,140	17.7	9.6 *	10.1 *	5.9	16.0
23	SIERRA	3,147	0.3	10.6 *	10.5 *	0.0	136.7
24	SAN LUIS OBISPO	276,844	29.3	10.6	10.6	7.1	15.1
25	YOLO	212,686	22.0	10.3	10.7	6.7	16.2
26	INYO	18,640	1.7	8.9 *	10.7 *	0.9	43.0
27	SOLANO	429,267	48.7	11.3	11.1	8.2	14.8
28	IMPERIAL	185,328	20.7	11.2	11.4	7.0	17.4
29	RIVERSIDE	2,329,256	267.0	11.5	11.4	10.0	12.8
HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: IVP-13.1					12.4		
30	SAN BERNARDINO	2,129,851	272.7	12.8	12.8	11.3	14.4
31	BUTTE	224,363	31.3	14.0	13.0	8.8	18.4
32	KINGS	149,702	19.0	12.7 *	13.2 *	7.9	20.6
33	YUBA	75,579	9.7	12.8 *	13.9 *	6.6	25.8
34	STANISLAUS	538,372	76.3	14.2	14.0	11.0	17.5
35	LASSEN	30,969	4.7	15.1 *	14.1 *	4.3	33.7
36	SAN JOAQUIN	727,547	101.7	14.0	14.1	11.3	16.9
37	SUTTER	97,618	14.7	15.0 *	14.5 *	8.1	24.0
38	FRESNO	979,357	140.3	14.3	14.7	12.3	17.2
39	SHASTA	178,777	28.3	15.8	15.1	10.0	21.7
40	MENDOCINO	88,429	13.3	15.1 *	15.3 *	8.2	26.0
41	KERN	883,327	135.3	15.3	15.7	13.0	18.4
42	SISKIYOU	44,500	7.7	17.2 *	16.2 *	6.8	32.4
43	AMADOR	37,314	6.7	17.9 *	16.7 *	6.5	35.0
44	MADERA	154,956	26.0	16.8	17.1	11.2	25.1
45	GLENN	28,960	4.3	15.0 *	17.2 *	5.0	42.6
46	TULARE	463,291	78.0	16.8	17.9	14.1	22.3
47	TEHAMA	63,970	12.0	18.8 *	18.3 *	9.4	31.9
48	HUMBOLDT	135,090	24.7	18.3	18.7	12.1	27.7
49	MERCED	269,729	50.0	18.5	19.3	14.3	25.5
50	SAN BENITO	57,584	11.0	19.1 *	19.9 *	9.9	35.6
51	COLUSA	22,271	4.3	19.5 *	19.9 *	5.8	49.3
52	PLUMAS	19,586	4.7	23.8 *	20.3 *	6.3	48.8
53	MONO	13,818	1.3	9.6 *	22.0 *	1.2	101.5
54	LAKE	65,180	15.0	23.0 *	22.8 *	12.8	37.7
55	DEL NORTE	27,119	7.0	25.8 *	23.1 *	9.3	47.6
56	CALAVERAS	44,899	11.7	26.0 *	27.8 *	14.2	48.9
57	MARIPOSA	18,088	6.7	36.9 *	34.3 *	13.4	71.8
58	TRINITY	13,562	5.0	36.9 *	46.1 *	15.0	107.6

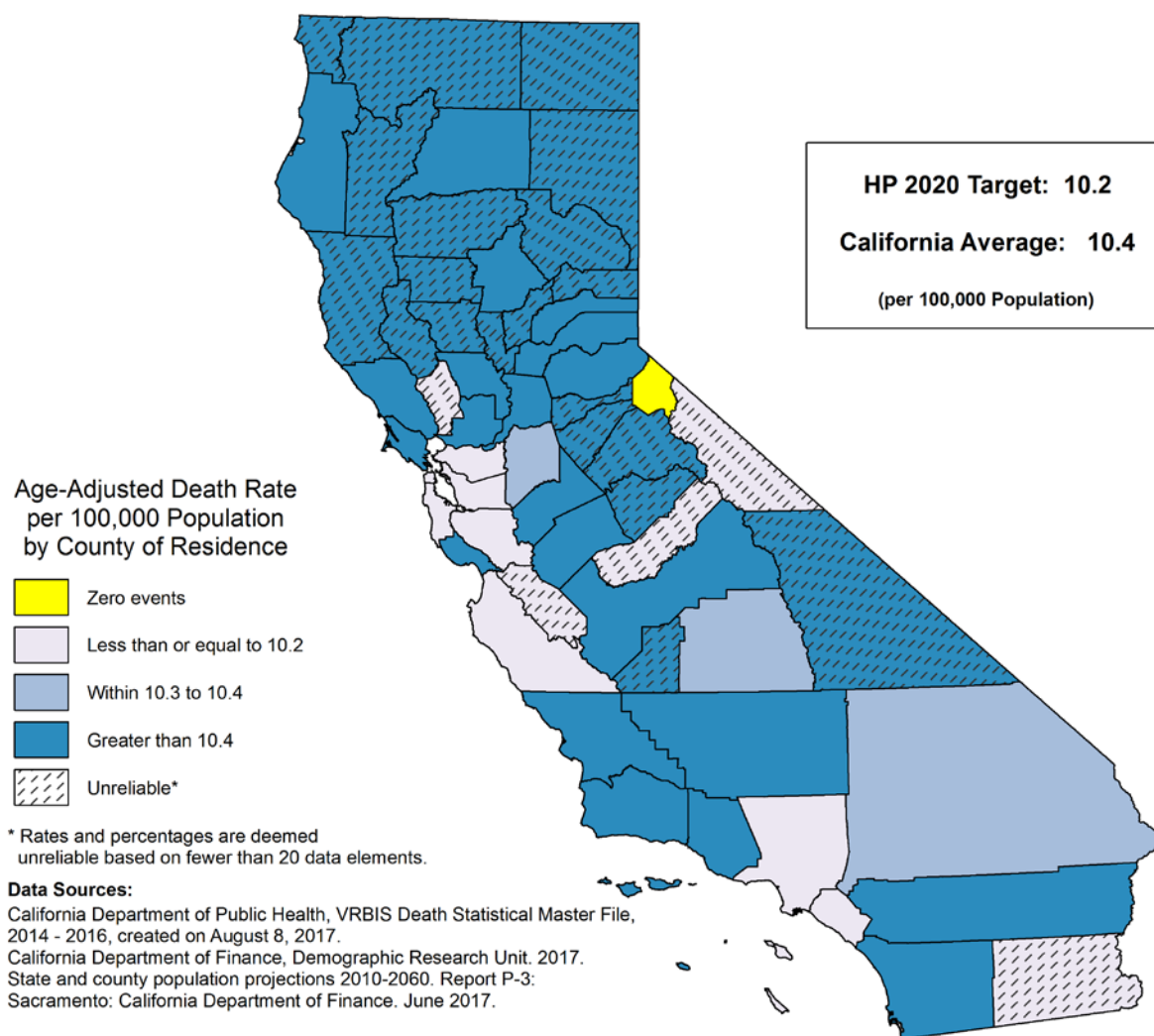
- Rates, percentages, and confidence limits are not calculated for zero occurrences.

* 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, VRBIS Death Statistical Master File Plus 2014 - 2016, created on August 8, 2017. 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, June 2017.

DEATHS DUE TO SUICIDE, 2014-2016



The crude death rate from suicide for California was 10.7 deaths per 100,000 population, equivalent to approximately one suicide for every 9,328.8 persons. The crude death rate for California was based on a 2014 through 2016 three-year average number of deaths equaling 4,187.0 and a population count of 39,059,809 as of July 1, 2015. Among counties with reliable rates, the crude death rate ranged from 26.4 in Humboldt County to 7.8 in San Mateo County, a factor of 3.4 to 1.

The age-adjusted death rate from suicide for California during the 2014 through 2016 three-year period was 10.4 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 25.6 in Humboldt County to 7.4 in San Mateo County.

Eight counties with reliable age-adjusted death rates 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 five counties with unreliable rates and one county with zero death due to suicide met the objective. The California age-adjusted death rate due to suicide did not meet the national objective.

The California age-adjusted death rate from suicide for the 2011-2013 period was 10.1 per 100,000 population.

**TABLE 16
DEATHS DUE TO SUICIDE
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE
CALIFORNIA COUNTIES, 2014-2016**

RANK ORDER	COUNTY OF RESIDENCE	2015 POPULATION	2014-2016 DEATHS (AVERAGE)	CRUDE DEATH RATE	AGE-ADJUSTED DEATH RATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
1	ALPINE	1,157	0.0	-	-	-	-
2	MONO	13,818	0.3	2.4 *	4.7 *	0.0	61.5
3	SAN MATEO	764,379	60.0	7.8	7.4	5.6	9.5
4	SAN BENITO	57,584	4.0	6.9 *	7.4 *	2.0	19.0
5	SANTA CLARA	1,915,102	151.7	7.9	7.6	6.4	8.8
6	LOS ANGELES	10,185,487	817.7	8.0	7.8	7.2	8.3
7	IMPERIAL	185,328	14.7	7.9 *	8.1 *	4.5	13.4
8	ALAMEDA	1,619,679	154.7	9.5	9.0	7.6	10.4
9	NAPA	141,546	14.7	10.4 *	9.5 *	5.3	15.8
10	MADERA	154,956	14.7	9.5 *	9.6 *	5.3	15.9
11	ORANGE	3,161,218	321.7	10.2	9.6	8.5	10.7
12	SAN FRANCISCO	863,108	94.7	11.0	9.8	8.0	12.0
13	CONTRA COSTA	1,116,882	118.3	10.6	10.0	8.2	11.9
14	MONTEREY	436,242	45.0	10.3	10.2	7.4	13.6
HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: MHMD-1						10.2	
15	TULARE	463,291	45.3	9.8	10.4	7.6	13.9
16	SAN BERNARDINO	2,129,851	212.0	10.0	10.4	9.0	11.9
17	SAN JOAQUIN	727,547	74.0	10.2	10.4	8.2	13.1
	CALIFORNIA	39,059,809	4,187.0	10.7	10.4	10.1	10.7
18	KINGS	149,702	14.7	9.8 *	10.7 *	6.0	17.8
19	RIVERSIDE	2,329,256	254.0	10.9	10.8	9.4	12.1
20	STANISLAUS	538,372	58.0	10.8	10.8	8.2	14.0
21	VENTURA	852,013	97.3	11.4	10.9	8.8	13.3
22	FRESNO	979,357	101.7	10.4	11.1	8.9	13.3
23	MERCED	269,729	29.0	10.8	11.9	7.9	17.0
24	YOLO	212,686	25.3	11.9	12.0	7.8	17.6
25	PLACER	370,738	49.7	13.4	12.1	9.0	15.9
26	MARIN	262,105	39.7	15.1	12.2	8.7	16.6
27	SAN DIEGO	3,275,084	410.7	12.5	12.2	11.0	13.4
28	SOLANO	429,267	57.0	13.3	12.8	9.7	16.6
29	SANTA BARBARA	444,900	59.0	13.3	13.0	9.9	16.7
30	SACRAMENTO	1,489,952	198.3	13.3	13.1	11.2	14.9
31	SONOMA	501,182	74.7	14.9	13.4	10.5	16.8
32	INYO	18,640	3.7	19.7 *	14.0 *	3.5	37.3
33	KERN	883,327	119.7	13.5	14.2	11.6	16.8
34	SANTA CRUZ	274,697	45.7	16.6	16.3	11.9	21.7
35	MODOC	9,507	1.7	17.5 *	16.8 *	1.5	67.4
36	SAN LUIS OBISPO	276,844	53.3	19.3	17.2	12.9	22.5
37	EL DORADO	183,140	34.3	18.7	17.4	12.1	24.3
38	COLUSA	22,271	3.7	16.5 *	18.0 *	4.5	47.8
39	YUBA	75,579	13.0	17.2 *	18.1 *	9.7	31.0
40	BUTTE	224,363	41.0	18.3	18.1	13.0	24.6
41	SUTTER	97,618	19.0	19.5 *	18.4 *	11.1	28.7
42	TEHAMA	63,970	11.7	18.2 *	18.5 *	9.4	32.5
43	TUOLUMNE	54,525	13.0	23.8 *	18.8 *	10.0	32.1
44	DEL NORTE	27,119	6.0	22.1 *	19.7 *	7.2	43.0
45	NEVADA	98,190	22.3	22.7	20.1	12.6	30.3
46	MENDOCINO	88,429	19.3	21.9 *	21.9 *	13.2	34.0
47	PLUMAS	19,586	4.7	23.8 *	23.7 *	7.3	56.9
48	SHASTA	178,777	44.3	24.8	23.8	17.3	31.9
49	LASSEN	30,969	7.7	24.8 *	23.9 *	10.1	47.7
50	GLENN	28,960	7.0	24.2 *	23.9 *	9.6	49.3
51	CALAVERAS	44,899	13.0	29.0 *	24.7 *	13.1	42.2
52	HUMBOLDT	135,090	35.7	26.4	25.6	17.9	35.5
53	LAKE	65,180	18.7	28.6 *	25.9 *	15.5	40.6
54	TRINITY	13,562	3.7	27.0 *	26.3 *	6.6	70.0
55	SISKIYOU	44,500	13.3	30.0 *	26.4 *	14.2	44.9
56	AMADOR	37,314	11.3	30.4 *	27.9 *	14.1	49.5
57	MARIPOSA	18,088	6.3	35.0 *	36.7 *	13.9	78.3
58	SIERRA	3,147	1.7	53.0 *	42.9 *	3.8	172.4

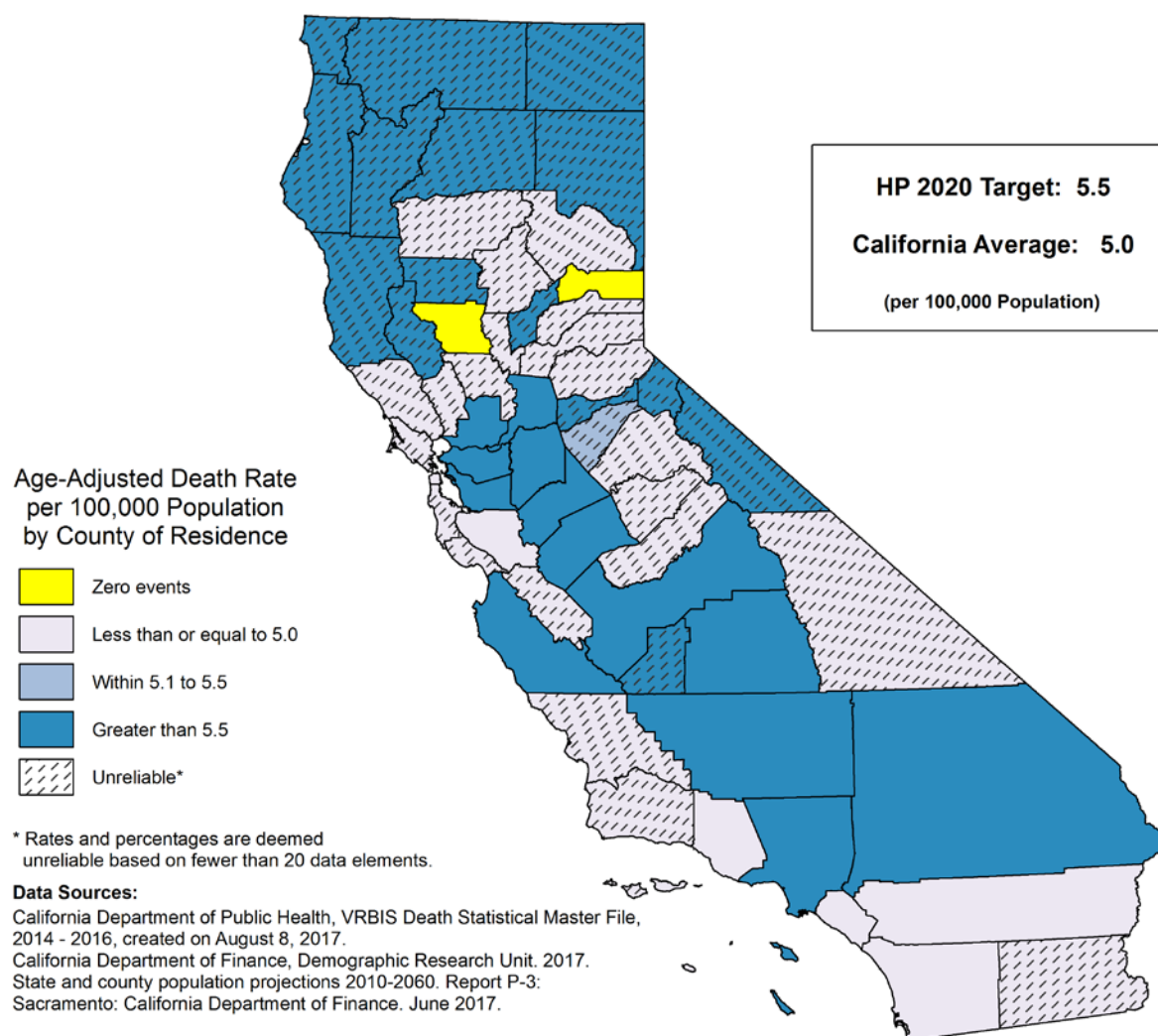
- Rates, percentages, and confidence limits are not calculated for zero occurrences.

* 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, VRBIS Death Statistical Master File Plus 2014 - 2016, created on August 8, 2017. 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, June 2017.

DEATHS DUE TO HOMICIDE, 2014-2016



The crude death rate from homicide for California was 5.0 deaths per 100,000 population, a risk of dying from a homicide equivalent to approximately one death for every 20,127.0 persons. The crude death rate for California was based on a 2014 through 2016 three-year average number of deaths equaling 1,940.7 and a population count of 39,059,809 as of July 1, 2015. Among counties with reliable rates, the crude death rate ranged from 11.5 in Monterey County to 2.0 in Orange County, a factor of 5.5 to 1.

The age-adjusted death rate from homicide for California during the 2014 through 2016 three-year period was 5.0 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 11.5 in Monterey County to 2.0 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-two counties with unreliable rates and two counties with zero death due to homicide met the objective.

The California age-adjusted death rate from homicide for the 2011-2013 period was 5.1 per 100,000 population.

**TABLE 17
DEATHS DUE TO HOMICIDE
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE
CALIFORNIA COUNTIES, 2014-2016**

RANK ORDER	COUNTY OF RESIDENCE	2015 POPULATION	2014-2016 DEATHS (AVERAGE)	CRUDE DEATH RATE	AGE-ADJUSTED DEATH RATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
1	COLUSA	22,271	0.0	-	-	-	-
2	SIERRA	3,147	0.0	-	-	-	-
3	INYO	18,640	0.3	1.8 *	1.0 *	0.0	12.4
4	NEVADA	98,190	1.0	1.0 *	1.1 *	0.0	6.0
5	NAPA	141,546	1.7	1.2 *	1.4 *	0.1	5.4
6	EL DORADO	183,140	3.7	2.0 *	1.6 *	0.4	4.3
7	PLACER	370,738	6.0	1.6 *	1.7 *	0.6	3.7
8	SAN BENITO	57,584	1.0	1.7 *	1.8 *	0.0	10.1
9	MARIPOSA	18,088	0.3	1.8 *	1.9 *	0.0	24.7
10	ORANGE	3,161,218	65.0	2.1	2.0	1.6	2.6
11	IMPERIAL	185,328	3.7	2.0 *	2.1 *	0.5	5.6
12	MARIN	262,105	5.7	2.2 *	2.2 *	0.8	5.0
13	YOLO	212,686	4.0	1.9 *	2.2 *	0.6	5.7
14	SAN MATEO	764,379	16.0	2.1 *	2.3 *	1.3	3.7
15	SONOMA	501,182	12.0	2.4 *	2.5 *	1.3	4.3
16	SAN LUIS OBISPO	276,844	6.0	2.2 *	2.5 *	0.9	5.4
17	SANTA CLARA	1,915,102	48.7	2.5	2.6	1.9	3.4
18	SANTA CRUZ	274,697	7.7	2.8 *	2.7 *	1.1	5.3
19	SAN DIEGO	3,275,084	92.7	2.8	2.9	2.3	3.5
20	VENTURA	852,013	26.3	3.1	3.2	2.1	4.6
21	TUOLUMNE	54,525	1.7	3.1 *	3.2 *	0.3	13.0
22	TEHAMA	63,970	2.0	3.1 *	3.4 *	0.4	12.1
23	BUTTE	224,363	7.3	3.3 *	3.4 *	1.4	6.8
24	PLUMAS	19,586	1.0	5.1 *	3.5 *	0.1	19.4
25	SANTA BARBARA	444,900	15.7	3.5 *	3.5 *	2.0	5.7
26	RIVERSIDE	2,329,256	94.0	4.0	4.1	3.3	5.0
27	SAN FRANCISCO	863,108	40.7	4.7	4.5	3.2	6.1
28	SUTTER	97,618	4.3	4.4 *	4.5 *	1.3	11.2
29	MADERA	154,956	7.0	4.5 *	5.0 *	2.0	10.3
	CALIFORNIA	39,059,809	1,940.7	5.0	5.0	4.7	5.2
30	CALAVERAS	44,899	2.0	4.5 *	5.5 *	0.7	19.9
HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: IVP-29					5.5		
31	STANISLAUS	538,372	29.0	5.4	5.6	3.8	8.1
32	LOS ANGELES	10,185,487	597.7	5.9	5.8	5.3	6.2
33	SAN BERNARDINO	2,129,851	124.7	5.9	5.8	4.8	6.9
34	KINGS	149,702	9.0	6.0 *	5.9 *	2.7	11.2
35	MENDOCINO	88,429	5.0	5.7 *	5.9 *	1.9	13.8
36	SHASTA	178,777	10.7	6.0 *	6.2 *	3.1	11.2
37	CONTRA COSTA	1,116,882	68.7	6.1	6.6	5.1	8.4
38	ALAMEDA	1,619,679	113.0	7.0	6.8	5.5	8.0
39	SACRAMENTO	1,489,952	100.7	6.8	6.8	5.5	8.2
40	FRESNO	979,357	66.0	6.7	6.9	5.3	8.7
41	GLENN	28,960	2.0	6.9 *	6.9 *	0.8	24.8
42	SISKIYOU	44,500	3.3	7.5 *	7.1 *	1.6	19.8
43	YUBA	75,579	5.3	7.1 *	7.4 *	2.5	16.9
44	MONO	13,818	0.7	4.8 *	7.7 *	0.0	57.3
45	LASSEN	30,969	2.3	7.5 *	7.7 *	1.2	25.5
46	SOLANO	429,267	32.7	7.6	7.8	5.3	10.9
47	AMADOR	37,314	2.3	6.3 *	8.2 *	1.2	27.1
48	DEL NORTE	27,119	2.0	7.4 *	8.2 *	1.0	29.7
49	MERCED	269,729	24.0	8.9	8.6	5.5	12.8
50	TULARE	463,291	39.3	8.5	8.7	6.2	11.9
51	KERN	883,327	77.0	8.7	8.8	6.9	11.0
52	HUMBOLDT	135,090	13.0	9.6 *	10.0 *	5.3	17.2
53	SAN JOAQUIN	727,547	72.7	10.0	10.1	7.9	12.8
54	MONTEREY	436,242	50.0	11.5	11.5	8.6	15.2
55	LAKE	65,180	8.3	12.8 *	14.0 *	6.2	27.2
56	TRINITY	13,562	2.0	14.7 *	16.0 *	1.9	57.7
57	MODOC	9,507	1.7	17.5 *	22.0 *	2.0	88.5
58	ALPINE	1,157	0.3	28.8 *	47.6 *	0.0	622.0

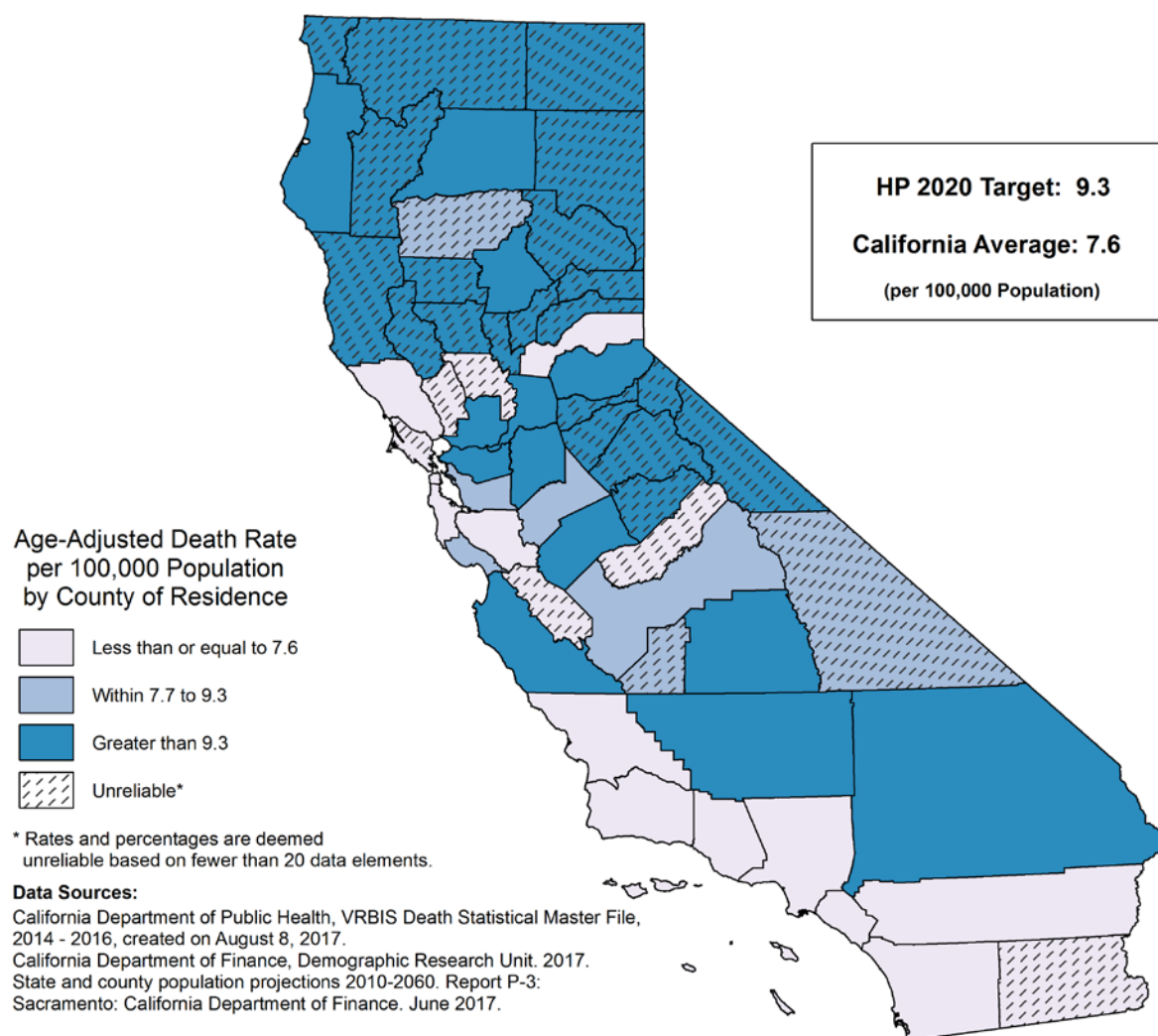
- Rates, percentages, and confidence limits are not calculated for zero occurrences.

* 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, VRBIS Death Statistical Master File Plus 2014 - 2016, created on August 8, 2017. 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, June 2017.

FIREARM-RELATED DEATHS, 2014-2016



The crude death rate from deaths due to firearm-related injuries for California was 7.8 deaths per 100,000 population, a risk of dying from a firearm-related injury equivalent to approximately one death for every 12,810.7 persons. The crude death rate for California was based on a 2014 through 2016 three-year average number of deaths equaling 3,049.0 and a population count of 39,059,809 as of July 1, 2015. Among counties with reliable rates, the crude death rate ranged from 20.5 in Humboldt County to 4.2 in San Mateo County a factor of 4.9 to 1.

The age-adjusted death rate firearm-related deaths for California during the 2014 through 2016 three-year period was 7.6 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 20.5 in Humboldt County to 4.1 in San Mateo County.

Sixteen 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 nine counties with unreliable rates due to firearm-related deaths met the objective.

The California age-adjusted death rate from deaths due to firearm-related injuries for the 2011-2013 period was 7.7 per 100,000 population.

**TABLE 18
FIREARM-RELATED DEATHS
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE
CALIFORNIA COUNTIES, 2014-2016**

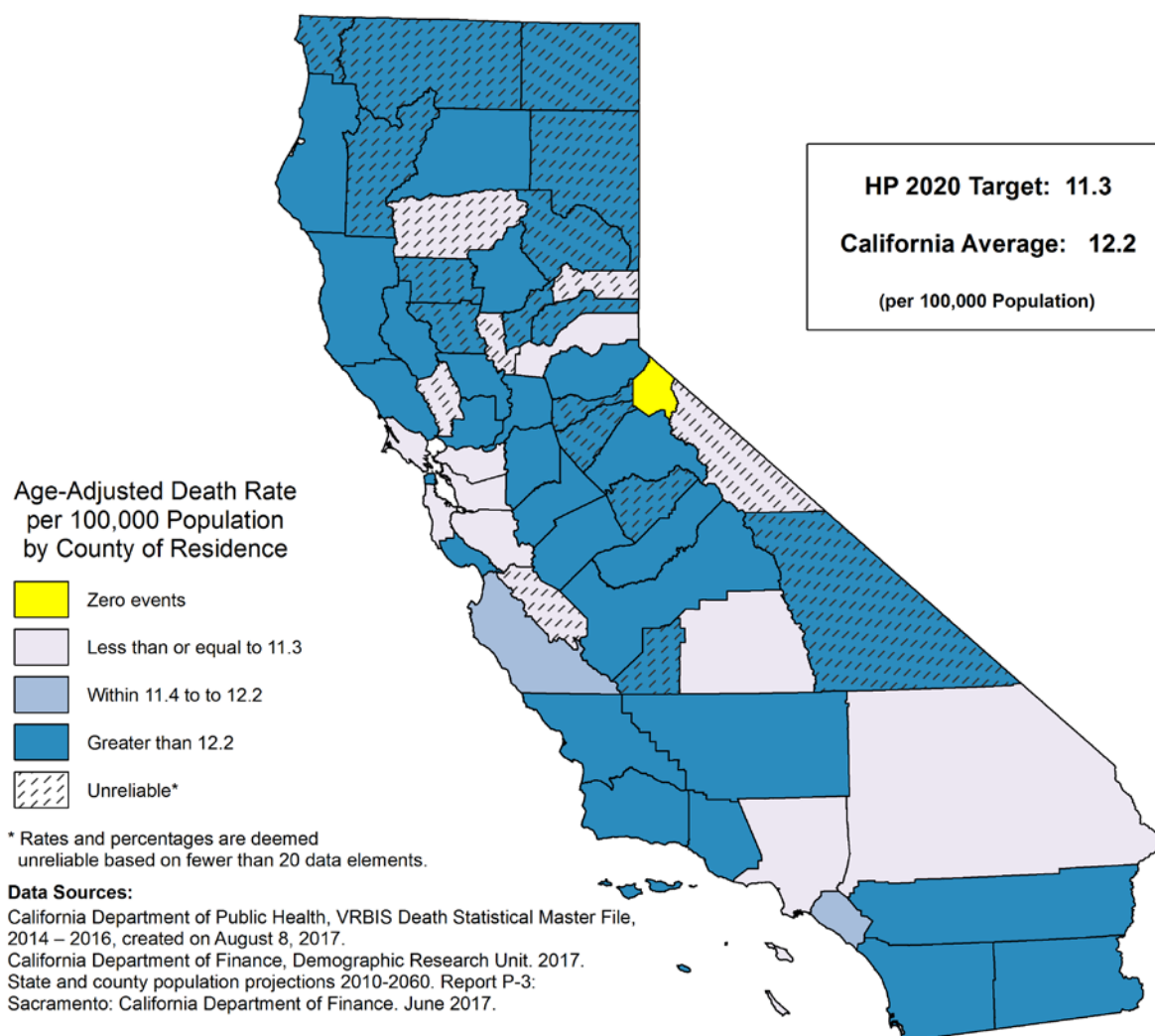
RANK ORDER	COUNTY OF RESIDENCE	2015 POPULATION	2014-2016 DEATHS (AVERAGE)	CRUDE DEATH RATE	AGE-ADJUSTED DEATH RATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
1	IMPERIAL	185,328	5.3	2.9 *	3.1 *	1.1	7.1
2	SAN MATEO	764,379	32.0	4.2	4.1	2.8	5.8
3	SANTA CLARA	1,915,102	83.0	4.3	4.2	3.4	5.2
4	ORANGE	3,161,218	149.3	4.7	4.5	3.8	5.2
5	SAN FRANCISCO	863,108	42.0	4.9	4.6	3.3	6.2
6	SAN BENITO	57,584	2.7	4.6 *	5.2 *	0.9	16.0
7	MARIN	262,105	17.0	6.5 *	5.3 *	3.1	8.5
8	NAPA	141,546	8.7	6.1 *	5.7 *	2.5	10.9
9	SONOMA	501,182	33.3	6.7	5.9	4.0	8.2
10	SAN DIEGO	3,275,084	197.3	6.0	6.0	5.1	6.8
11	PLACER	370,738	27.3	7.4	6.5	4.3	9.4
12	VENTURA	852,013	57.7	6.8	6.6	5.0	8.5
13	SANTA BARBARA	444,900	30.7	6.9	6.6	4.5	9.4
14	YOLO	212,686	14.3	6.7 *	6.9 *	3.8	11.5
15	LOS ANGELES	10,185,487	745.3	7.3	7.1	6.6	7.7
16	RIVERSIDE	2,329,256	169.0	7.3	7.2	6.1	8.3
17	SAN LUIS OBISPO	276,844	23.0	8.3	7.3	4.6	10.9
18	MADERA	154,956	11.0	7.1 *	7.4 *	3.7	13.2
	CALIFORNIA	39,059,809	3,049.0	7.8	7.6	7.4	7.9
19	INYO	18,640	2.3	12.5 *	7.7 *	1.2	25.5
20	ALAMEDA	1,619,679	136.3	8.4	8.1	6.7	9.5
21	STANISLAUS	538,372	43.3	8.0	8.3	6.0	11.2
22	SANTA CRUZ	274,697	23.7	8.6	8.3	5.3	12.4
23	KINGS	149,702	12.7	8.5 *	8.8 *	4.7	15.2
24	FRESNO	979,357	88.7	9.1	9.2	7.4	11.3
25	TEHAMA	63,970	7.0	10.9 *	9.3 *	3.7	19.2
HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: IVP-30						9.3	
26	SAN BERNARDINO	2,129,851	194.7	9.1	9.4	8.0	10.7
27	CONTRA COSTA	1,116,882	105.0	9.4	9.7	7.8	11.5
28	MERCED	269,729	26.7	9.9	9.9	6.5	14.5
29	SACRAMENTO	1,489,952	151.7	10.2	10.0	8.4	11.7
30	TUOLUMNE	54,525	6.7	12.2 *	10.9 *	4.2	22.8
31	EL DORADO	183,140	23.3	12.7	10.9	6.9	16.3
32	BUTTE	224,363	27.3	12.2	11.2	7.4	16.2
33	TULARE	463,291	50.0	10.8	11.2	8.3	14.8
34	MENDOCINO	88,429	11.3	12.8 *	12.2 *	6.2	21.6
35	SOLANO	429,267	53.7	12.5	12.2	9.2	16.0
36	SAN JOAQUIN	727,547	89.7	12.3	12.4	9.9	15.2
37	MONO	13,818	1.0	7.2 *	12.4 *	0.3	68.9
38	KERN	883,327	106.3	12.0	12.5	10.0	14.9
39	COLUSA	22,271	2.7	12.0 *	12.6 *	2.3	38.9
40	NEVADA	98,190	16.7	17.0 *	13.9 *	8.1	22.4
41	MONTEREY	436,242	61.0	14.0	14.0	10.7	18.0
42	SUTTER	97,618	14.7	15.0 *	15.0 *	8.3	24.8
43	SHASTA	178,777	29.7	16.6	15.1	10.1	21.6
44	YUBA	75,579	10.7	14.1 *	15.6 *	7.7	28.1
45	GLENN	28,960	4.7	16.1 *	15.6 *	4.8	37.4
46	AMADOR	37,314	6.7	17.9 *	15.6 *	6.1	32.7
47	LASSEN	30,969	4.7	15.1 *	15.9 *	4.9	38.1
48	DEL NORTE	27,119	5.3	19.7 *	17.0 *	5.8	38.7
49	CALAVERAS	44,899	9.7	21.5 *	17.7 *	8.3	32.8
50	PLUMAS	19,586	4.7	23.8 *	19.5 *	6.0	46.8
51	HUMBOLDT	135,090	27.7	20.5	20.5	13.6	29.7
52	SISKIYOU	44,500	10.3	23.2 *	20.7 *	10.0	37.6
53	MARIPOSA	18,088	4.7	25.8 *	21.9 *	6.8	52.5
54	LAKE	65,180	15.7	24.0 *	23.3 *	13.2	38.1
55	MODOC	9,507	2.3	24.5 *	29.4 *	4.5	97.8
56	SIERRA	3,147	1.3	42.4 *	32.5 *	1.8	149.6
57	TRINITY	13,562	5.3	39.3 *	39.3 *	13.4	89.5
58	ALPINE	1,157	0.3	28.8 *	47.6 *	0.0	622.0

* 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, VRBIS Death Statistical Master File Plus 2014 - 2016, created on August 8, 2017. 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, June 2017.

DRUG-INDUCED DEATHS, 2014-2016



The crude death rate from deaths due to drug-induced causes for California was 12.7 deaths per 100,000 population, a risk of dying from a drug-induced cause equivalent to approximately one death for every 7,871.8 persons. The crude death rate for California was based on a 2014 through 2016 three-year average number of deaths equaling 4,962.0 and a population count of 39,059,809 as of July 1, 2015. Among counties with reliable rates, the crude death rate ranged from 46.5 in Lake County to 7.8 in Los Angeles and Santa Clara Counties, a factor of 6.0 to 1.

The age-adjusted death rate from deaths due to drug-induced causes for California during the 2014 through 2016 three-year period was 12.2 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 43.6 in Lake County to 7.2 in Santa Clara County.

Nine counties with reliable age-adjusted death rates met the Healthy People 2020 National Objective SA-12 of no more than 11.3 age-adjusted deaths due to drug-induced causes per 100,000 population. An additional six counties with unreliable rates and one county with no death due to drug-induced causes met the objective. The California age-adjusted death rate due to drug-induced causes did not meet the national objective.

The California age-adjusted death rate from deaths due to drug-induced causes for the 2011-2013 period was 11.1 per 100,000 population.

**TABLE 19
DRUG-INDUCED DEATHS
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE
CALIFORNIA COUNTIES, 2014-2016**

RANK ORDER	COUNTY OF RESIDENCE	2015 POPULATION	2014-2016 DEATHS (AVERAGE)	CRUDE DEATH RATE	AGE-ADJUSTED DEATH RATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
1	ALPINE	1,157	0.0	-	-	-	-
2	MONO	13,818	1.3	9.6 *	5.9 *	0.3	27.0
3	SANTA CLARA	1,915,102	149.0	7.8	7.2	6.0	8.3
4	LOS ANGELES	10,185,487	797.0	7.8	7.5	7.0	8.0
5	SAN MATEO	764,379	65.0	8.5	7.6	5.8	9.6
6	SAN BENITO	57,584	4.3	7.5 *	7.8 *	2.3	19.2
7	SIERRA	3,147	0.7	21.2 *	8.7 *	0.0	65.3
8	MARIN	262,105	26.3	10.0	9.9	6.5	14.5
9	NAPA	141,546	14.7	10.4 *	10.0 *	5.6	16.6
10	TULARE	463,291	43.3	9.4	10.1	7.3	13.6
11	ALAMEDA	1,619,679	183.3	11.3	10.4	8.9	12.0
12	SUTTER	97,618	10.0	10.2 *	10.8 *	5.2	19.9
13	CONTRA COSTA	1,116,882	131.0	11.7	11.0	9.1	12.9
14	PLACER	370,738	43.7	11.8	11.0	8.0	14.8
15	TEHAMA	63,970	7.7	12.0 *	11.0 *	4.7	22.1
16	SAN BERNARDINO	2,129,851	240.7	11.3	11.3	9.9	12.8
HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: SA-12					11.3		
17	MONTEREY	436,242	50.7	11.6	11.4	8.5	15.0
18	ORANGE	3,161,218	396.7	12.5	11.9	10.8	13.1
	CALIFORNIA	39,059,809	4,962.0	12.7	12.2	11.8	12.5
19	SAN DIEGO	3,275,084	447.0	13.6	13.1	11.9	14.4
20	KINGS	149,702	17.3	11.6 *	13.3 *	7.8	21.3
21	VENTURA	852,013	118.0	13.8	13.4	10.9	15.9
22	SOLANO	429,267	60.7	14.1	13.8	10.5	17.7
23	SONOMA	501,182	77.3	15.4	14.1	11.1	17.6
24	COLUSA	22,271	3.0	13.5 *	14.6 *	3.0	42.7
25	SANTA BARBARA	444,900	66.7	15.0	15.0	11.6	19.0
26	TRINITY	13,562	2.3	17.2 *	15.0 *	2.3	49.7
27	YOLO	212,686	31.0	14.6	15.1	10.2	21.4
28	RIVERSIDE	2,329,256	359.0	15.4	15.2	13.6	16.8
29	MERCED	269,729	38.3	14.2	15.6	11.1	21.4
30	MADERA	154,956	23.7	15.3	15.6	10.0	23.3
31	SAN LUIS OBISPO	276,844	44.0	15.9	15.8	11.5	21.2
32	FRESNO	979,357	146.0	14.9	15.9	13.3	18.5
33	DEL NORTE	27,119	4.7	17.2 *	16.4 *	5.1	39.5
34	SAN JOAQUIN	727,547	121.3	16.7	16.6	13.6	19.6
35	YUBA	75,579	12.3	16.3 *	17.1 *	8.9	29.6
36	SACRAMENTO	1,489,952	273.3	18.3	17.4	15.3	19.5
37	GLENN	28,960	5.3	18.4 *	18.0 *	6.1	41.0
38	STANISLAUS	538,372	94.7	17.6	18.2	14.8	22.3
39	CALAVERAS	44,899	9.3	20.8 *	18.7 *	8.7	35.0
40	SAN FRANCISCO	863,108	189.7	22.0	19.0	16.2	21.7
41	SANTA CRUZ	274,697	54.3	19.8	19.7	14.8	25.7
42	IMPERIAL	185,328	34.3	18.5	20.4	14.2	28.5
43	MARIPOSA	18,088	3.7	20.3 *	21.3 *	5.4	56.7
44	NEVADA	98,190	19.7	20.0 *	21.9 *	13.3	34.0
45	SHASTA	178,777	39.7	22.2	22.2	15.9	30.3
46	EL DORADO	183,140	42.7	23.3	23.6	17.0	31.8
47	AMADOR	37,314	9.7	25.9 *	24.3 *	11.5	45.2
48	KERN	883,327	213.0	24.1	25.0	21.6	28.5
49	MODOC	9,507	2.3	24.5 *	26.1 *	4.0	86.7
50	MENDOCINO	88,429	23.7	26.8	26.2	16.7	39.1
51	INYO	18,640	5.3	28.6 *	28.1 *	9.5	63.9
52	LASSEN	30,969	10.7	34.4 *	29.4 *	14.5	53.0
53	SISKIYOU	44,500	13.3	30.0 *	30.0 *	16.1	51.0
54	BUTTE	224,363	70.7	31.5	30.2	23.6	38.1
55	TUOLUMNE	54,525	20.3	37.3	32.9	20.2	50.6
56	PLUMAS	19,586	6.0	30.6 *	35.2 *	12.9	76.6
57	HUMBOLDT	135,090	52.0	38.5	37.4	27.9	49.0
58	LAKE	65,180	30.3	46.5	43.6	29.5	62.1

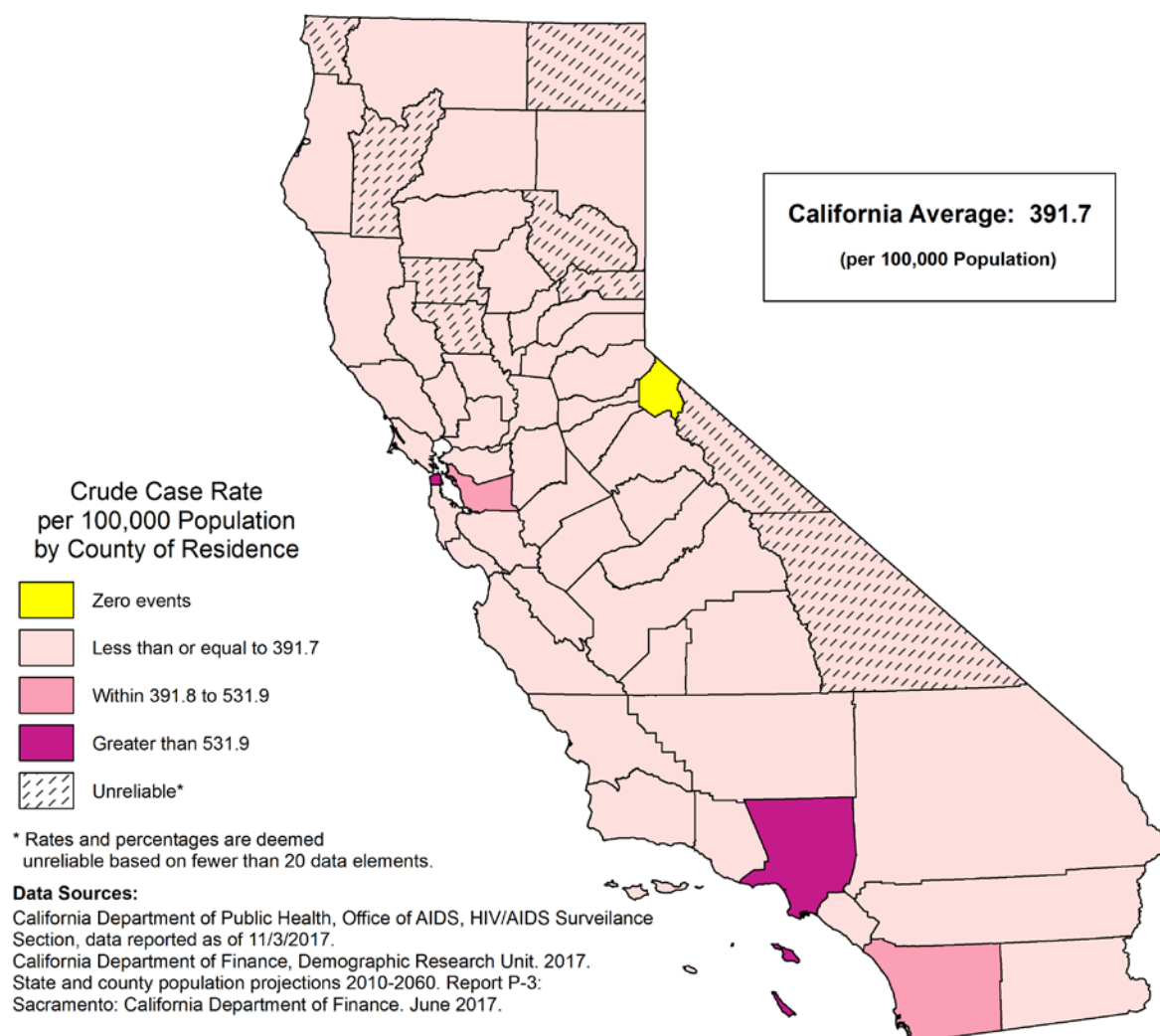
- Rates, percentages, and confidence limits are not calculated for zero occurrences.

* 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, VRBIS Death Statistical Master File Plus 2014 - 2016, created on August 8, 2017. 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, June 2017.

REPORTED INCIDENCE OF PERSONS DIAGNOSED WITH HIV/AIDS AMONG AGES 13 YEARS AND OLDER, 2013-2015



The crude case rate of reported incidence of persons diagnosed with HIV/AIDS among Californians, aged 13 years and older, was 391.7 cases per 100,000 of corresponding age population, or approximately one reported HIV/AIDS case for every 255.3 population, aged 13 years and older. This rate was based on a 2013 through 2015 three-year average reported number of cases of persons aged 13 years and older equaling 125,802.7 and a corresponding age population count of 32,118,659 as of July 1, 2014.

Among counties with reliable rates, the crude case rate ranged from 1,857.4 in San Francisco County to 72.1 in Placer County, a factor of 25.8 to 1.

A Healthy People 2020 National Objective for reported incidence of persons diagnosed with HIV/AIDS among persons ages 13 years and older has not been established.

Five counties' data was suppressed per the Data De-Identification Guidelines (DDG). For these counties the three-year average case count, crude case rate, as well as lower/upper confidence limits were masked with a '#' symbol. See technical notes for more information regarding DDG.

The California crude case rate of reported incidence of persons diagnosed with HIV/AIDS, aged 13 years and older, for the 2010-2012 period was 379.1 per 100,000 people.

TABLE 20
REPORTED INCIDENCE OF PERSONS DIAGNOSED WITH HIV/AIDS AMONG AGES 13 AND OVER
RANKED BY THREE-YEAR AVERAGE CRUDE CASE RATE
CALIFORNIA COUNTIES, 2013-2015

RANK ORDER	COUNTY OF RESIDENCE	2014 POPULATION AGED 13 AND OVER	2013-2015 CASES (AVERAGE)	CRUDE CASE RATE	95% CONFIDENCE LIMITS	
					LOWER	UPPER
HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: NOT APPLICABLE						
1	ALPINE	1,010	0.0	-	-	-
2	GLENN	23,383	12.3	52.7 *	27.5	91.5
3	PLACER	312,872	225.7	72.1	62.7	81.5
4	TEHAMA	52,695	41.7	79.1	56.9	107.0
5	LASSEN	27,975	22.3	79.8	50.2	120.5
6	TUOLUMNE	48,458	39.7	81.9	58.4	111.6
7	DEL NORTE	23,088	19.0	82.3 *	49.5	128.5
8	YUBA	59,138	50.0	84.5	62.8	111.5
9	SAN BENITO	46,756	40.7	87.0	62.3	118.1
10	CALAVERAS	39,946	35.3	88.5	61.7	122.8
11	SISKIYOU	38,342	34.0	88.7	61.4	123.9
12	TULARE	354,426	331.0	93.4	83.3	103.5
13	MERCED	210,275	202.3	96.2	83.0	109.5
14	NEVADA	86,909	84.3	97.0	77.4	120.1
15	SUTTER	78,957	77.7	98.4	77.7	122.8
16	INYO	15,805	15.7	99.1 *	56.3	161.8
17	EL DORADO	157,468	159.7	101.4	85.7	117.1
18	BUTTE	191,517	236.3	123.4	107.7	139.1
19	MARIPOSA	16,080	20.0	124.4	76.0	192.1
20	YOLO	175,923	219.3	124.7	108.2	141.2
21	TRINITY	12,055	15.3	127.2 *	71.7	208.7
22	STANISLAUS	428,269	561.0	131.0	120.2	141.8
23	MADERA	123,462	165.7	134.2	113.8	154.6
24	SHASTA	152,270	206.0	135.3	116.8	153.8
25	VENTURA	703,637	973.7	138.4	129.7	147.1
26	AMADOR	33,515	51.0	152.2	113.3	200.1
27	SANTA BARBARA	368,362	593.7	161.2	148.2	174.1
28	HUMBOLDT	114,950	189.7	165.0	141.5	188.5
29	IMPERIAL	144,096	255.0	177.0	155.2	198.7
30	MONTEREY	346,257	663.0	191.5	176.9	206.1
31	SANTA CRUZ	230,128	451.3	196.1	178.0	214.2
32	SAN BERNARDINO	1,698,325	3,344.0	196.9	190.2	203.6
33	NAPA	119,559	255.0	213.3	187.1	239.5
34	SANTA CLARA	1,566,500	3,376.0	215.5	208.2	222.8
35	SAN JOAQUIN	576,379	1,305.3	226.5	214.2	238.8
36	KINGS	116,466	265.7	228.1	200.7	255.5
37	FRESNO	766,151	1,758.3	229.5	218.8	240.2
38	KERN	690,823	1,594.3	230.8	219.5	242.1
39	MENDOCINO	74,614	176.0	235.9	201.0	270.7
40	SAN MATEO	637,763	1,553.0	243.5	231.4	255.6
41	CONTRA COSTA	924,209	2,285.0	247.2	237.1	257.4
42	SAN LUIS OBISPO	240,762	607.3	252.3	232.2	272.3
43	LAKE	55,395	142.7	257.5	215.3	299.8
44	ORANGE	2,621,578	7,159.7	273.1	266.8	279.4
45	SONOMA	426,725	1,288.3	301.9	285.4	318.4
46	SACRAMENTO	1,214,607	3,763.0	309.8	299.9	319.7
47	RIVERSIDE	1,881,039	6,075.7	323.0	314.9	331.1
48	SOLANO	355,582	1,181.0	332.1	313.2	351.1
49	MARIN	222,817	850.0	381.5	355.8	407.1
	CALIFORNIA	32,118,659	125,802.7	391.7	389.5	393.8
50	ALAMEDA	1,348,987	6,036.7	447.5	436.2	458.8
51	SAN DIEGO	2,685,242	12,719.3	473.7	465.4	481.9
52	LOS ANGELES	8,457,392	49,905.0	590.1	584.9	595.3
53	SAN FRANCISCO	761,705	14,148.0	1,857.4	1,826.8	1,888.0
	COLUSA	17,719	#	#	#	#
	MODOC	8,255	#	#	#	#
	MONO	11,801	#	#	#	#
	PLUMAS	17,410	#	#	#	#
	SIERRA	2,830	#	#	#	#

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

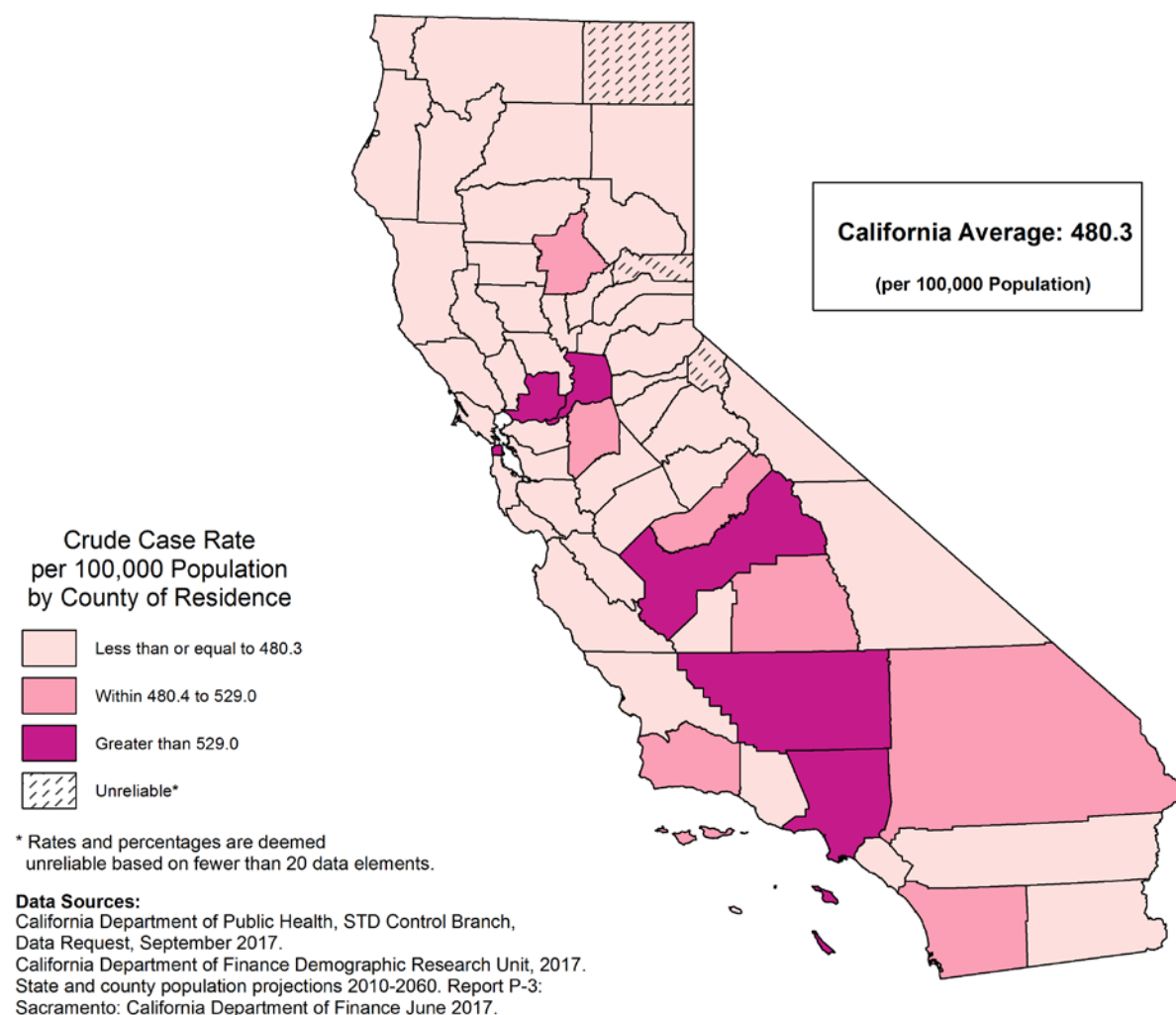
* Rates are deemed unreliable based on fewer than 20 data elements.

Results masked per Data De-Identification Guidelines (DDG). See technical notes for more information.

Note: Counties were rank ordered first by increasing case rate, DDG listed alphabetically. See technical notes for more information.

Sources: California Department of Public Health, Office of AIDS, HIV/AIDS Surveillance Section, data reported as of 11/3/2017. 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, June 2017.

REPORTED INCIDENCE OF CHLAMYDIA, 2014-2016



The crude case rate of reported incidence of chlamydia for California was 480.3 cases per 100,000 population, or approximately one reported incidence of chlamydia for every 208.2 persons. The crude case rate for California was based on a 2014 through 2016 three-year average number of reported incidence of chlamydia cases equaling 187,602 and a population count of 39,059,809 as of July 1, 2015.

Among counties with reliable rates, the crude case rate of reported incidence of chlamydia ranged from 843.1 in San Francisco County to 159.6 in Calaveras County, a factor of 5.3 to 1.

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

Two counties' data was suppressed per the Data De-Identification Guidelines (DDG). The three-year average case count, crude case rate, as well as lower/upper confidence limits were masked with a ' # ' symbol. See technical notes for more information regarding DDG.

The California crude case rate of reported incidence of chlamydia for the 2011-2013 period was 440.1 per 100,000 population.

TABLE 21
REPORTED INCIDENCE OF CHLAMYDIA
RANKED BY THREE-YEAR AVERAGE CRUDE CASE RATE
CALIFORNIA COUNTIES, 2014-2016

RANK ORDER	COUNTY OF RESIDENCE	2015 POPULATION	2014-2016 (CASES AVERAGE)	CRUDE CASE RATE	95% CONFIDENCE LIMITS	
					LOWER	UPPER
HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: STD-1				NOT APPLICABLE		
1	MODOC	9,507	12.7	133.2 *	70.3	229.4
2	CALAVERAS	44,899	71.7	159.6	124.8	201.1
3	TRINITY	13,562	24.3	179.4	115.4	266.2
4	MARIPOSA	18,088	33.7	186.1	128.6	260.5
5	AMADOR	37,314	72.0	193.0	151.0	243.0
6	TUOLUMNE	54,525	114.3	209.7	171.3	248.1
7	MONO	13,818	29.0	209.9	140.6	301.4
8	EL DORADO	183,140	395.7	216.0	194.8	237.3
9	SISKIYOU	44,500	101.3	227.7	183.4	272.1
10	NEVADA	98,190	232.0	236.3	205.9	266.7
11	LASSEN	30,969	77.3	249.7	197.2	311.9
12	COLUSA	22,271	55.7	250.0	188.6	324.8
13	PLACER	370,738	933.7	251.8	235.7	268.0
14	MARIN	262,105	676.3	258.0	238.6	277.5
15	DEL NORTE	27,119	72.0	265.5	207.7	334.3
16	SAN BENITO	57,584	164.7	286.0	242.3	329.6
17	NAPA	141,546	421.3	297.7	269.2	326.1
18	VENTURA	852,013	2,592.0	304.2	292.5	315.9
19	PLUMAS	19,586	60.0	306.3	233.8	394.3
20	SAN MATEO	764,379	2,395.0	313.3	300.8	325.9
21	GLENN	28,960	92.3	318.8	257.1	390.9
22	TEHAMA	63,970	211.3	330.4	285.8	374.9
23	SUTTER	97,618	327.3	335.3	299.0	371.6
24	INYO	18,640	62.7	336.2	258.1	430.4
25	YUBA	75,579	257.7	340.9	299.3	382.6
26	SANTA CLARA	1,915,102	6,603.7	344.8	336.5	353.1
27	SANTA CRUZ	274,697	959.3	349.2	327.1	371.3
28	ORANGE	3,161,218	11,177.3	353.6	347.0	360.1
29	SONOMA	501,182	1,803.7	359.9	343.3	376.5
30	LAKE	65,180	238.0	365.1	318.8	411.5
31	SHASTA	178,777	662.0	370.3	342.1	398.5
32	MENDOCINO	88,429	332.0	375.4	335.1	415.8
33	RIVERSIDE	2,329,256	9,052.0	388.6	380.6	396.6
34	YOLO	212,686	831.7	391.0	364.5	417.6
35	SAN LUIS OBISPO	276,844	1,087.3	392.8	369.4	416.1
36	MONTEREY	436,242	1,762.0	403.9	385.0	422.8
37	MERCED	269,729	1,121.3	415.7	391.4	440.1
38	IMPERIAL	185,328	774.7	418.0	388.6	447.4
39	CONTRA COSTA	1,116,882	4,720.0	422.6	410.5	434.7
40	KINGS	149,702	660.3	441.1	407.5	474.7
41	STANISLAUS	538,372	2,400.0	445.8	428.0	463.6
42	HUMBOLDT	135,090	602.3	445.9	410.3	481.5
43	ALAMEDA	1,619,679	7,758.3	479.0	468.3	489.7
	CALIFORNIA	39,059,809	187,602.0	480.3	478.1	482.5
44	MADERA	154,956	764.0	493.0	458.1	528.0
45	SANTA BARBARA	444,900	2,202.7	495.1	474.4	515.8
46	SAN JOAQUIN	727,547	3,626.3	498.4	482.2	514.7
47	TULARE	463,291	2,370.7	511.7	491.1	532.3
48	SAN BERNARDINO	2,129,851	11,083.3	520.4	510.7	530.1
49	BUTTE	224,363	1,167.7	520.4	490.6	550.3
50	SAN DIEGO	3,275,084	17,326.3	529.0	521.2	536.9
51	SOLANO	429,267	2,352.0	547.9	525.8	570.1
52	SACRAMENTO	1,489,952	8,213.7	551.3	539.3	563.2
53	LOS ANGELES	10,185,487	56,885.7	558.5	553.9	563.1
54	FRESNO	979,357	6,044.7	617.2	601.6	632.8
55	KERN	883,327	6,250.3	707.6	690.0	725.1
56	SAN FRANCISCO	863,108	7,277.0	843.1	823.7	862.5
	ALPINE	1,157	#	#	#	#
	SIERRA	3,147	#	#	#	#

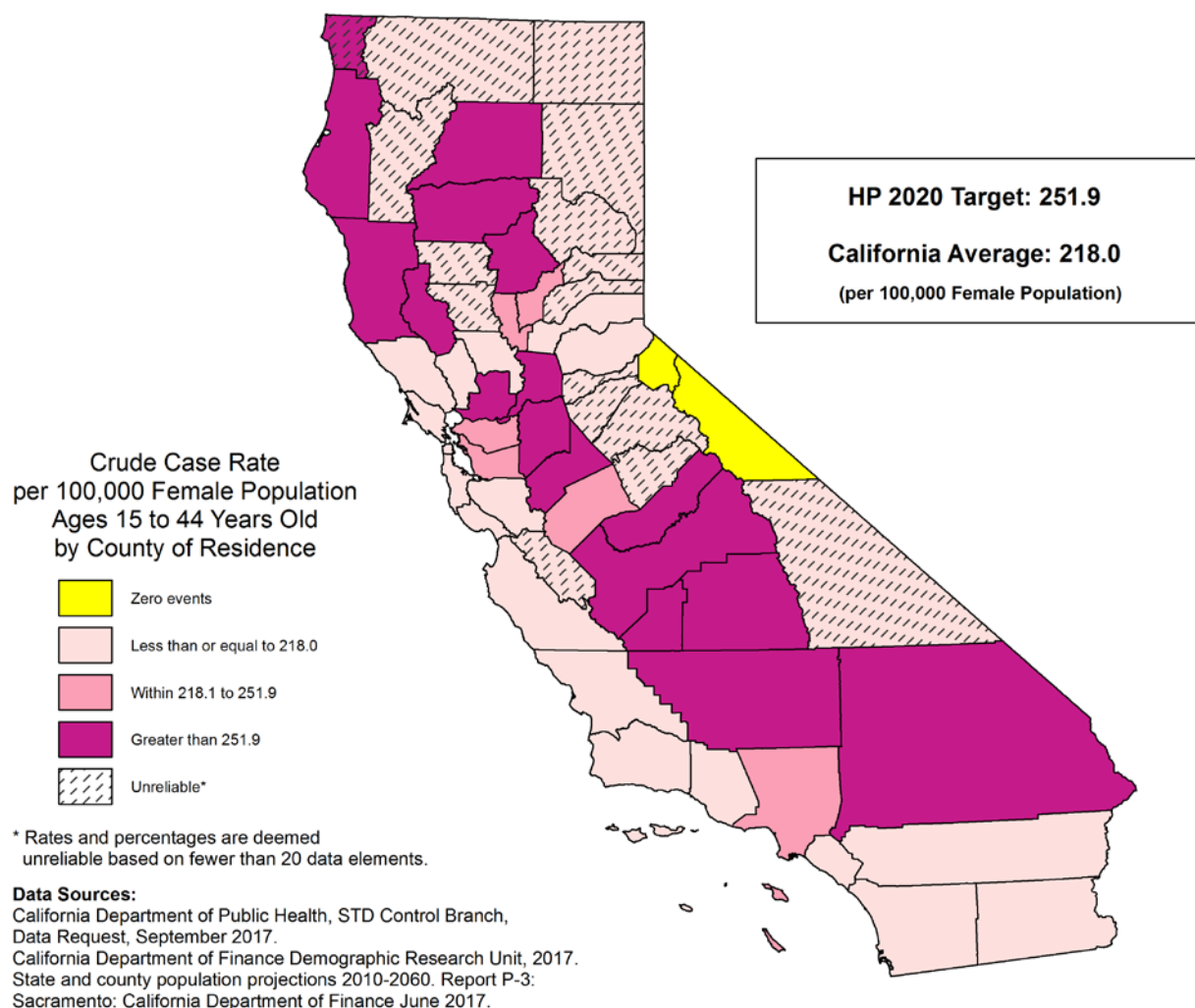
* Rates are deemed unreliable based on fewer than 20 elements.

Results masked per Data De-Identification Guidelines (DDG). See technical notes for more information.

Note: Counties were rank ordered first by increasing case rate, DDG listed alphabetically. See technical notes for more information.

Sources: California Department of Public Health, STD Control Branch, Data Request, September 2017. 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, June 2017.

REPORTED INCIDENCE OF GONORRHEA AMONG FEMALES 15 TO 44 YEARS OLD, 2014-2016



The crude case rate of reported incidence of gonorrhea among females (FG-Cases), ages 15 to 44 years old for California was 218.0 cases per 100,000 female population or approximately one reported incidence of gonorrhea for every 458.7 females in the corresponding age group. The crude case rate for California was based on a three-year average number of reported incidence of FG-Cases, equaling 17,290.3 and a corresponding female population count of 7,930,430 as of July 1, 2015.

Among counties with reliable rates, the crude case rate ranged from 719.8 in Lake County to 75.5 in San Mateo County, a factor of 9.5 to 1.

Twenty-four counties with reliable crude case rates and California as a whole met the Healthy People 2020 National Objective STD-6.1 of no more than 251.9 new reported FG-Cases per 100,000 female population. An additional fifteen counties with unreliable rates and two counties with zero recorded incidences of FG-Cases met the objective.

Twelve counties' data was suppressed per the Data De-Identification Guidelines (DDG). The three-year average case count, crude case rate, as well as lower/upper confidence limits were masked with a '#' symbol. See technical notes for more information regarding DDG.

The California crude case rate of reported incidence of FG-Cases for the 2011-2013 period was 152.6 per 100,000 female population, ages 15 to 44 years old.

**TABLE 22F
REPORTED INCIDENCE OF GONORRHEA AMONG FEMALES 15 TO 44 YEARS OLD
RANKED BY THREE-YEAR AVERAGE CRUDE CASE RATE
CALIFORNIA COUNTIES, 2014-2016**

RANK ORDER	COUNTY OF RESIDENCE	2015 FEMALE POPULATION 15 TO 44 YEARS OLD	2014-2016 CASES (AVERAGE)	CRUDE CASE RATE	95% CONFIDENCE LIMITS	
					LOWER	UPPER
1	MONO	2,512	0.0	-	-	-
2	ALPINE	167	0.0	-	-	-
3	SAN MATEO	142,592	107.7	75.5	61.2	89.8
4	NAPA	25,944	26.3	101.5	66.5	148.4
5	MARIN	39,350	41.3	105.0	75.5	142.3
6	EL DORADO	29,659	31.3	105.6	71.9	149.7
7	ORANGE	629,790	719.0	114.2	105.8	122.5
8	PLACER	66,771	76.7	114.8	90.6	143.6
9	NEVADA	14,705	17.0	115.6 *	67.3	185.1
10	SANTA CRUZ	54,986	69.0	125.5	97.6	158.8
11	SANTA BARBARA	92,927	119.0	128.1	105.0	151.1
12	VENTURA	163,713	209.7	128.1	110.7	145.4
13	MONTEREY	85,949	112.3	130.7	106.5	154.9
14	IMPERIAL	35,520	48.7	137.0	101.2	181.3
15	SAN LUIS OBISPO	49,675	69.3	139.6	108.7	176.5
16	SANTA CLARA	381,037	532.0	139.6	127.8	151.5
17	SONOMA	90,874	127.0	139.8	115.4	164.1
18	TUOLUMNE	7,698	11.0	142.9 *	71.3	255.7
19	YOLO	51,663	75.0	145.2	114.2	182.0
20	SAN BENITO	11,355	16.7	146.8 *	85.0	236.1
21	SAN DIEGO	657,928	1,085.7	165.0	155.2	174.8
22	RIVERSIDE	470,633	780.7	165.9	154.2	177.5
23	SAN FRANCISCO	198,218	392.0	197.8	178.2	217.3
	CALIFORNIA	7,930,430	17,290.3	218.0	214.8	221.3
24	MERCED	56,953	125.0	219.5	181.0	258.0
25	SUTTER	19,184	42.3	220.7	159.3	297.9
26	LOS ANGELES	2,149,066	4,885.7	227.3	221.0	233.7
27	YUBA	15,292	36.0	235.4	164.9	325.9
28	ALAMEDA	348,016	825.0	237.1	220.9	253.2
29	CONTRA COSTA	211,955	521.3	246.0	224.9	267.1
	AMADOR	4,858	#	#	#	#
	CALAVERAS	6,264	#	#	#	#
	COLUSA	4,246	#	#	#	#
	GLENN	5,439	#	#	#	#
	INYO	2,903	#	#	#	#
	LASSEN	3,454	#	#	#	#
	MARIPOSA	2,577	#	#	#	#
	MODOC	1,450	#	#	#	#
	PLUMAS	2,776	#	#	#	#
	SIERRA	397	#	#	#	#
	SISKIYOU	6,671	#	#	#	#
	TRINITY	1,918	#	#	#	#
HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: STD-6.1				251.9		
30	MADERA	33,299	92.0	276.3	222.7	338.8
31	STANISLAUS	110,829	308.0	277.9	246.9	308.9
32	TULARE	94,906	264.7	278.9	245.3	312.5
33	SAN BERNARDINO	450,089	1,344.0	298.6	282.6	314.6
34	KINGS	28,266	85.3	301.9	241.3	373.1
35	BUTTE	45,265	140.7	310.8	259.4	362.1
36	HUMBOLDT	26,666	84.0	315.0	251.3	390.0
37	SAN JOAQUIN	147,590	498.7	337.9	308.2	367.5
38	DEL NORTE	3,959	13.7	345.2 *	187.1	582.7
39	SOLANO	82,443	286.3	347.3	307.1	387.5
40	MENDOCINO	14,891	52.7	353.7	264.7	463.0
41	TEHAMA	11,252	40.0	355.5	254.0	484.1
42	SACRAMENTO	308,248	1,143.0	370.8	349.3	392.3
43	KERN	178,680	668.0	373.9	345.5	402.2
44	FRESNO	205,312	880.7	428.9	400.6	457.3
45	SHASTA	31,370	159.3	507.9	429.0	586.8
46	LAKE	10,280	74.0	719.8	565.2	903.7

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

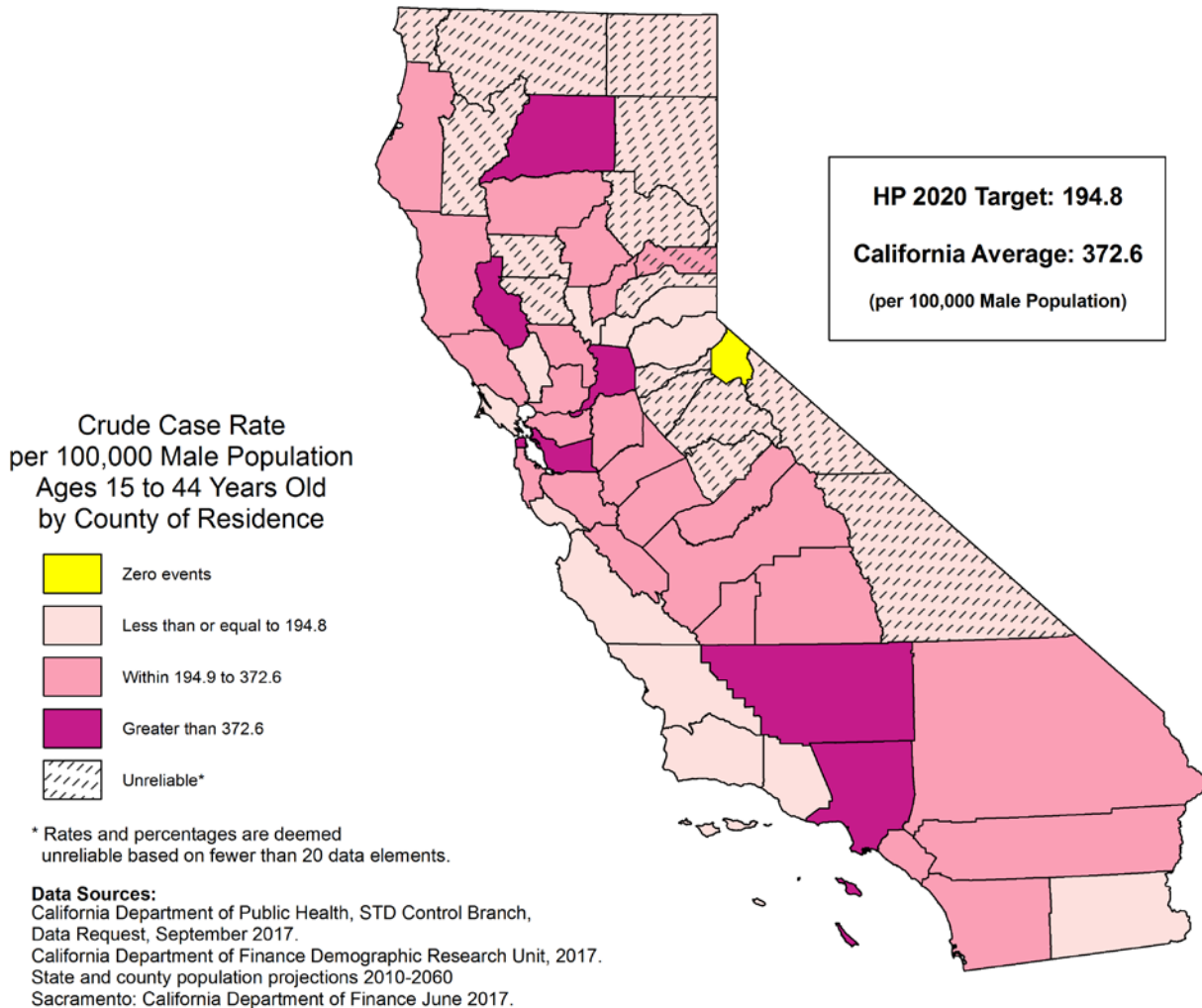
* Rates are deemed unreliable based on fewer than 20 data elements.

Results masked per Data De-Identification Guidelines (DDG). See technical notes for more information.

Note: Counties were rank ordered by increasing case rate, DDG listed alphabetically. See technical notes for more information

Sources: California Department of Public Health, STD Control Branch, Richmond, CA. Data Request, September 2017. 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, June 2017.

REPORTED INCIDENCE OF GONORRHEA AMONG MALES 15 TO 44 YEARS OLD, 2014-2016



The crude case rate of reported incidence of gonorrhea among males (MG-Cases), ages 15 to 44 years old for California was 372.6 cases per 100,000 male population, ages 15 to 44 years old, or approximately one reported incidence of gonorrhea for every 268.4 males in the corresponding age group. The crude case rate for California was based on a 2014 through 2016 three-year average number of reported incidence of MG-Cases, equaling 31,002.0 and a corresponding male population count of 8,320,611 as of July 1, 2015.

Among counties with reliable rates, the crude case rate ranged from 1,506.2 in San Francisco County to 112.7 in El Dorado County, a factor of 13.4 to 1.

Eleven counties with reliable crude case rates met the Healthy People 2020 National Objective STD-6.2 of no more than 194.8 new reported MG-Cases per 100,000 male population. An additional fifteen counties with unreliable rates and one county with zero reported incidences of MG-Cases met the objective. California's crude case rate for reported incidences of MG-Cases did not meet the national objective.

Thirteen counties' data was suppressed per the Data De-Identification Guidelines (DDG). The three-year average case count, crude case rate, as well as lower/upper confidence limits were masked with a ' # ' symbol. See technical notes for more information regarding DDG.

The California crude case rate of reported incidence of MG-Cases for the 2011-2013 period was 212.8 per 100,000 male population, ages 15 to 44 years old.

TABLE 22M
REPORTED INCIDENCE OF GONORRHEA AMONG MALES 15 TO 44 YEARS OLD
RANKED BY THREE-YEAR AVERAGE CRUDE CASE RATE
CALIFORNIA COUNTIES, 2014-2016

RANK ORDER	COUNTY OF RESIDENCE	2015 MALE POPULATION 15 TO 44 YEARS OLD	2014-2016 CASES (AVERAGE)	CRUDE CASE RATE	95% CONFIDENCE LIMITS	
					LOWER	UPPER
1	ALPINE	164	0.0	-	-	-
2	EL DORADO	31,951	36.0	112.7	78.9	156.0
3	IMPERIAL	41,311	47.7	115.4	85.0	153.1
4	NEVADA	16,137	19.3	119.8 *	72.5	186.4
5	PLACER	69,051	93.3	135.2	109.1	165.5
6	NAPA	28,108	38.3	136.4	96.7	186.9
7	SANTA BARBARA	102,570	147.3	143.6	120.4	166.8
8	TUOLUMNE	10,330	15.3	148.4 *	83.7	243.5
9	VENTURA	173,228	272.0	157.0	138.4	175.7
10	MARIN	42,847	70.7	164.9	128.7	208.1
11	SAN LUIS OBISPO	59,448	100.7	169.3	136.3	202.4
12	SUTTER	20,039	34.7	173.0	120.3	241.0
13	MONTEREY	98,821	176.7	178.8	152.4	205.1
14	SANTA CRUZ	58,106	111.0	191.0	155.5	226.6
15	DEL NORTE	6,376	12.3	193.4 *	101.0	335.4
	AMADOR	6,828	#	#	#	#
	CALAVERAS	6,854	#	#	#	#
	COLUSA	4,617	#	#	#	#
	GLENN	5,846	#	#	#	#
	INYO	3,141	#	#	#	#
	LASSEN	9,500	#	#	#	#
	MARIPOSA	2,762	#	#	#	#
	MODOC	1,581	#	#	#	#
	MONO	2,991	#	#	#	#
	PLUMAS	2,992	#	#	#	#
	SISKIYOU	7,329	#	#	#	#
	TRINITY	2,100	#	#	#	#
HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: STD-6.2				194.8		
16	SAN BENITO	11,788	23.0	195.1	123.7	292.8
17	MADERA	31,107	64.3	206.8	159.4	263.9
18	YUBA	15,874	33.0	207.9	143.1	292.0
19	YOLO	50,510	107.7	213.2	172.9	253.4
20	SONOMA	96,764	208.7	215.6	186.4	244.9
21	SAN MATEO	149,118	322.3	216.2	192.6	239.8
22	ORANGE	653,822	1,435.0	219.5	208.1	230.8
23	RIVERSIDE	484,233	1,085.7	224.2	210.9	237.5
24	KINGS	39,000	89.3	229.1	184.0	281.8
25	MERCED	60,732	143.7	236.6	197.9	275.2
26	SANTA CLARA	409,287	972.3	237.6	222.6	252.5
27	MENDOCINO	16,379	40.3	246.3	176.2	334.9
28	TEHAMA	11,866	32.7	275.3	189.1	387.3
29	TULARE	99,292	274.3	276.3	243.6	309.0
30	BUTTE	49,542	141.3	285.3	238.2	332.3
31	CONTRA COSTA	213,700	631.7	295.6	272.5	318.6
32	SAN BERNARDINO	463,010	1,382.0	298.5	282.7	314.2
33	SAN DIEGO	722,124	2,376.3	329.1	315.8	342.3
34	STANISLAUS	114,190	379.7	332.5	299.0	365.9
35	SAN JOAQUIN	154,075	519.0	336.8	307.9	365.8
36	FRESNO	214,915	760.3	353.8	328.6	378.9
37	SOLANO	87,460	309.7	354.1	314.6	393.5
38	HUMBOLDT	29,003	106.7	367.8	298.0	437.6
	CALIFORNIA	8,320,611	31,002.0	372.6	368.4	376.7
39	SACRAMENTO	313,645	1,223.0	389.9	368.1	411.8
40	KERN	204,448	851.3	416.4	388.4	444.4
41	ALAMEDA	347,439	1,595.7	459.3	436.7	481.8
42	SHASTA	32,577	155.7	477.8	402.8	552.9
43	LOS ANGELES	2,213,477	11,364.0	513.4	504.0	522.8
44	LAKE	11,107	57.7	519.2	393.9	671.7
45	SAN FRANCISCO	204,659	3,082.7	1506.2	1453.1	1559.4
	SIERRA	440	#	#	#	#

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

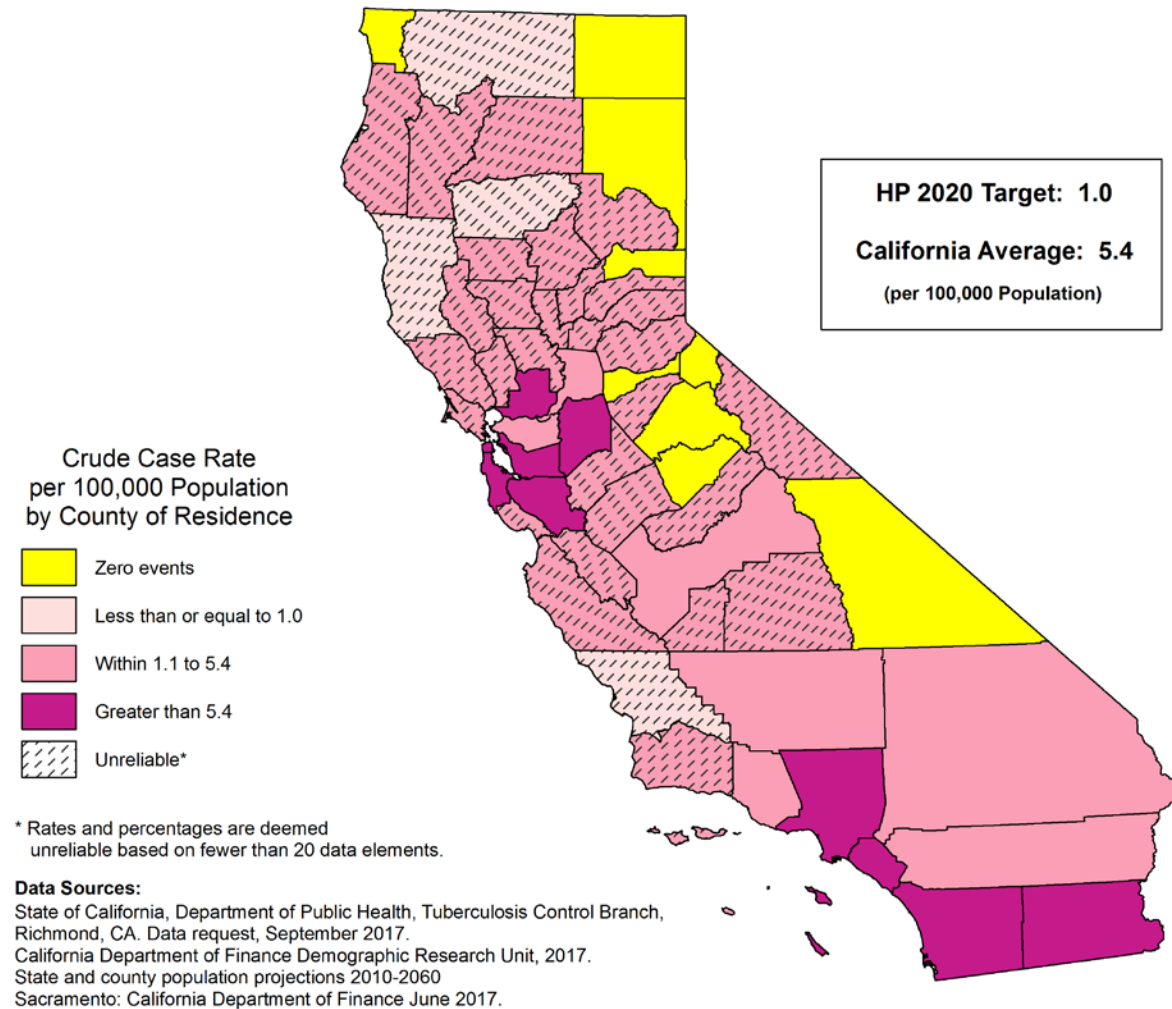
* Rates are deemed unreliable based on fewer than 20 data elements.

Results masked per Data De-Identification Guidelines (DDG). See technical notes for more information.

Note: Counties were rank ordered by increasing case rate, DDG listed alphabetically. See technical notes for more information

Sources: California Department of Public Health, STD Control Branch, Richmond, CA. Data Request, September 2017. 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, June 2017.

REPORTED INCIDENCE OF TUBERCULOSIS, 2014-2016



The crude case rate of reported incidence of tuberculosis for California was 5.4 cases per 100,000 population, or approximately one reported incidence of tuberculosis for every 18,532.0 persons. The crude case rate for California was based on 2014 through 2016 three-year average number of reported incidence of tuberculosis cases equaling 2,107.7 and a population count of 39,059,809 as of July 1, 2015. Among counties with reliable rates, the crude case rate of reported incidence of tuberculosis ranged from 20.1 in Imperial County to 2.4 in Riverside County, a factor of 8.4 to 1.

Zero counties with reliable crude rates met the Healthy People 2020 National Objective IID-29 of no more than 1.0 new reported incidence of tuberculosis case per 100,000 population. Five counties with unreliable rates and nine counties with zero reported incidences of tuberculosis cases met the objective. California's crude case rate for reported incidences of tuberculosis did not meet the national objective.

The California crude case rate of reported incidence of tuberculosis for the 2011-2013 period was 5.8 per 100,000 population.

TABLE 23
REPORTED INCIDENCE OF TUBERCULOSIS
RANKED BY THREE-YEAR AVERAGE CRUDE CASE RATE
CALIFORNIA COUNTIES, 2014 - 2016

RANK ORDER	COUNTY OF RESIDENCE	2015 POPULATION	2014-2016 CASES (AVERAGE)	CRUDE CASE RATE	95% CONFIDENCE LIMITS	
					LOWER	UPPER
1	TUOLUMNE	54,525	0.0	-	-	-
2	AMADOR	37,314	0.0	-	-	-
3	LASSEN	30,969	0.0	-	-	-
4	DEL NORTE	27,119	0.0	-	-	-
5	INYO	18,640	0.0	-	-	-
6	MARIPOSA	18,088	0.0	-	-	-
7	MODOC	9,507	0.0	-	-	-
8	SIERRA	3,147	0.0	-	-	-
9	ALPINE	1,157	0.0	-	-	-
10	TEHAMA	63,970	0.3	0.5 *	0.0	6.8
11	SAN LUIS OBISPO	276,844	2.0	0.7 *	0.1	2.6
12	SISKIYOU	44,500	0.3	0.7 *	0.0	9.8
13	MENDOCINO	88,429	0.7	0.8 *	0.0	5.6
14	NEVADA	98,190	1.0	1.0 *	0.0	5.7
HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: IID-29				1.0		
15	PLACER	370,738	5.0	1.3 *	0.4	3.1
16	SHASTA	178,777	2.7	1.5 *	0.3	4.6
17	COLUSA	22,271	0.3	1.5 *	0.0	19.6
18	SANTA CRUZ	274,697	4.3	1.6 *	0.5	3.9
19	NAPA	141,546	2.3	1.6 *	0.3	5.5
21	PLUMAS	19,586	0.3	1.7 *	0.0	22.3
20	SAN BENITO	57,584	1.0	1.7 *	0.0	9.7
22	BUTTE	224,363	4.0	1.8 *	0.5	4.6
23	EL DORADO	183,140	3.7	2.0 *	0.5	5.3
24	LAKE	65,180	1.3	2.0 *	0.1	9.4
25	SONOMA	501,182	11.0	2.2 *	1.1	3.9
27	HUMBOLDT	135,090	3.0	2.2 *	0.5	6.5
26	KINGS	149,702	3.3	2.2 *	0.5	6.2
28	CALAVERAS	44,899	1.0	2.2 *	0.1	12.4
29	GLENN	28,960	0.7	2.3 *	0.0	17.2
30	RIVERSIDE	2,329,256	55.7	2.4	1.8	3.1
31	MONO	13,818	0.3	2.4 *	0.0	31.5
32	TRINITY	13,562	0.3	2.5 *	0.0	32.1
33	STANISLAUS	538,372	13.3	2.5 *	1.3	4.2
34	SUTTER	97,618	2.7	2.7 *	0.5	8.5
35	SAN BERNARDINO	2,129,851	61.3	2.9	2.2	3.7
36	MARIN	262,105	7.7	2.9 *	1.2	5.8
37	YUBA	75,579	2.3	3.1 *	0.5	10.3
38	KERN	883,327	29.3	3.3	2.2	4.8
39	MADERA	154,956	5.7	3.7 *	1.3	8.1
40	TULARE	463,291	17.0	3.7 *	2.1	5.9
41	CONTRA COSTA	1,116,882	44.3	4.0	2.9	5.3
42	VENTURA	852,013	34.0	4.0	2.8	5.6
43	MERCED	269,729	11.0	4.1 *	2.0	7.3
44	MONTEREY	436,242	18.0	4.1 *	2.4	6.5
45	YOLO	212,686	9.0	4.2 *	1.9	8.0
46	SANTA BARBARA	444,900	19.0	4.3 *	2.6	6.7
47	SACRAMENTO	1,489,952	69.7	4.7	3.6	5.9
48	FRESNO	979,357	51.0	5.2	3.9	6.8
49	ORANGE	3,161,218	171.3	5.4	4.6	6.2
	CALIFORNIA	39,059,809	2,107.7	5.4	5.2	5.6
50	SOLANO	429,267	23.7	5.5	3.5	8.2
51	LOS ANGELES	10,185,487	617.7	6.1	5.6	6.5
52	SAN JOAQUIN	727,547	51.3	7.1	5.3	9.3
53	SAN DIEGO	3,275,084	237.3	7.2	6.3	8.2
54	SAN MATEO	764,379	61.0	8.0	6.1	10.3
55	ALAMEDA	1,619,679	132.7	8.2	6.8	9.6
56	SANTA CLARA	1,915,102	172.7	9.0	7.7	10.4
57	SAN FRANCISCO	863,108	102.7	11.9	9.6	14.2
58	IMPERIAL	185,328	37.3	20.1	14.2	27.7

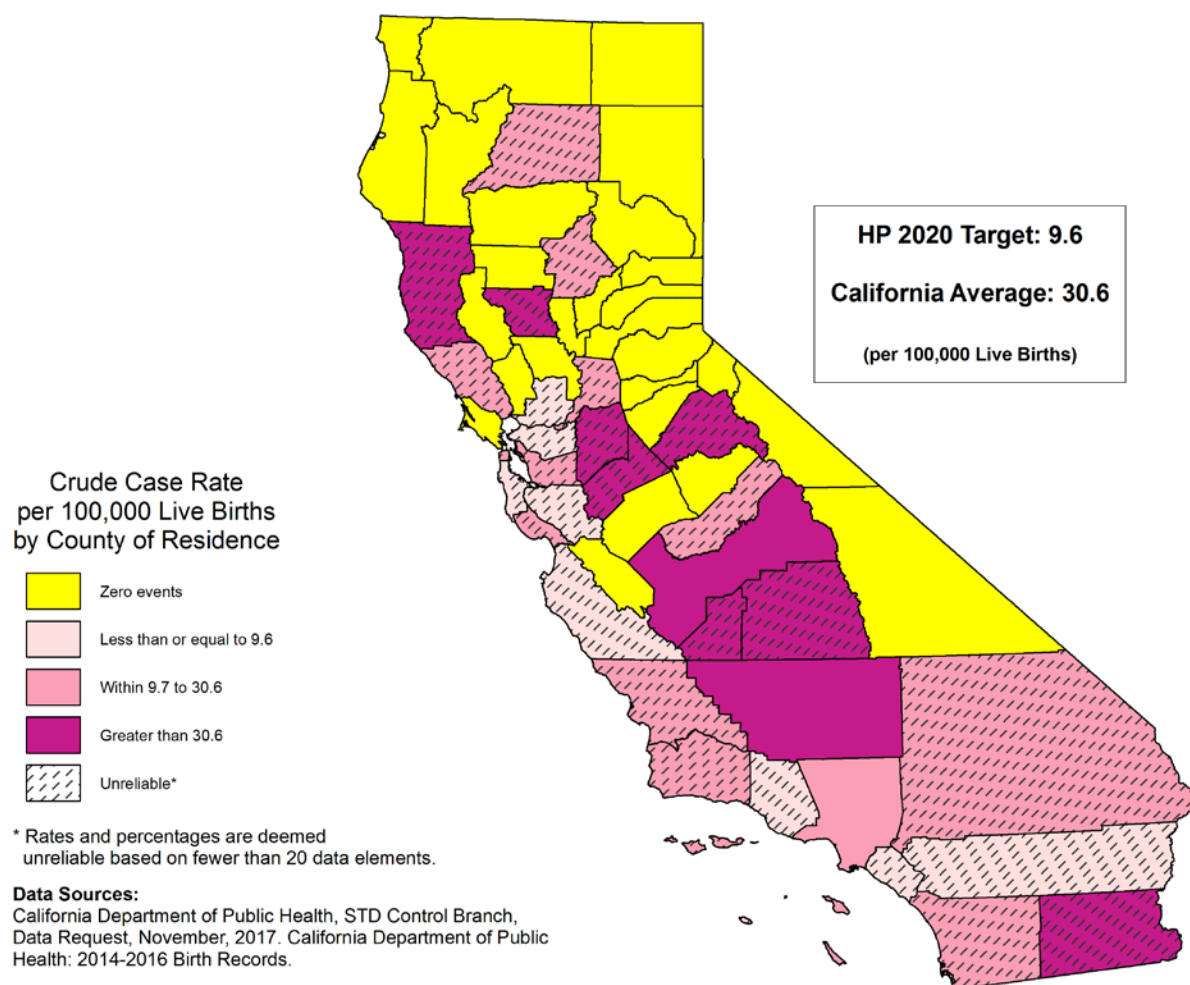
- Rates and percentages are not calculated for zero events.

* 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 prenatal care (calculated to 15 decimal places), second by decreasing size of the total number of live births

Source: State of California, Department of Public Health, Tuberculosis Control Branch, Richmond CA. Data Request, September 2017. California Department of Finance, Report P-3: State and County Population Projections by Race/Ethnicity, Detailed Age and Gender, 2010-2060. Sacramento, California, June 2017.

REPORTED INCIDENCE OF CONGENITAL SYPHILIS, 2014-2016



The crude case rate of reported incidence of congenital syphilis for California was 30.6 cases per 100,000 live births approximately one reported incidence of congenital syphilis for every 3,268.8 live births. The crude case rate for California was based on a 2014 through 2016 three-year average number of reported incidence of congenital syphilis equaling 151.3 and a corresponding average count of live births 494,562.3 as of July 1, 2015.

Among counties with reliable rates, the crude case rate ranged from 24.4 in Los Angeles County to 239.8 in Fresno County, a factor of 9.8 to 1.

Zero counties, with reliable crude case rates met the Healthy People 2020 National Objective STD-8 of no more than 9.6 reported incidences of congenital syphilis per 100,000 live births. California also did not meet the Healthy People 2020 National Objective. Eight counties with unreliable rates and twenty-seven counties with zero reported incidences of congenital syphilis met the objective.

Twenty-eight counties' data was suppressed per the Data De-Identification Guidelines (DDG). The three-year average case count, crude case rate, as well as lower/upper confidence limits were masked with a '#' symbol. See technical notes for more information regarding DDG.

The California crude case rate of congenital syphilis for the 2011-2013 period was 9.1 per 100,000 live births.

**TABLE 23C
REPORTED INCIDENCE OF CONGENITAL SYPHILIS
RANKED BY THREE-YEAR AVERAGE CRUDE CASE RATE
CALIFORNIA COUNTIES, 2014-2016**

RANK ORDER	COUNTY OF RESIDENCE	2015 LIVE BIRTHS	2014-2016 CASES (AVERAGE)	CRUDE CASE RATE	95% CONFIDENCE LIMITS	
					LOWER	UPPER
1	MERCED	4,126.7	0.0	-	-	-
2	PLACER	3,708.3	0.0	-	-	-
3	YOLO	2,406.7	0.0	-	-	-
4	MARIN	2,315.3	0.0	-	-	-
5	EL DORADO	1,605.3	0.0	-	-	-
6	HUMBOLDT	1,470.3	0.0	-	-	-
7	NAPA	1,447.0	0.0	-	-	-
8	SUTTER	1,329.0	0.0	-	-	-
9	YUBA	1,195.7	0.0	-	-	-
10	NEVADA	825.3	0.0	-	-	-
11	TEHAMA	801.3	0.0	-	-	-
12	LAKE	740.3	0.0	-	-	-
13	SAN BENITO	731.3	0.0	-	-	-
14	SISKIYOU	459.7	0.0	-	-	-
15	GLENN	390.3	0.0	-	-	-
16	CALAVERAS	367.3	0.0	-	-	-
17	DEL NORTE	311.3	0.0	-	-	-
18	LASSEN	308.7	0.0	-	-	-
19	AMADOR	301.0	0.0	-	-	-
20	INYO	203.7	0.0	-	-	-
21	PLUMAS	159.7	0.0	-	-	-
22	MARIPOSA	150.7	0.0	-	-	-
23	MONO	144.0	0.0	-	-	-
24	TRINITY	107.7	0.0	-	-	-
25	MODOC	89.0	0.0	-	-	-
26	ALPINE	#	0.0	-	-	-
27	SIERRA	#	0.0	-	-	-
	CONTRA COSTA	12,501.0	#	#	#	#
	MONTEREY	6,368.7	#	#	#	#
	ORANGE	38,117.3	#	#	#	#
	RIVERSIDE	30,487.3	#	#	#	#
	SAN MATEO	9,033.0	#	#	#	#
	SANTA CLARA	23,398.7	#	#	#	#
	SOLANO	5,215.0	#	#	#	#
	TUOLUMNE	7,392.0	#	#	#	#
HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE : STD-8				9.6		
28	LOS ANGELES	125,843.3	30.7	24.4	16.5	34.7
	CALIFORNIA	494,562.3	151.3	30.6	25.7	35.5
29	KERN	13,900.3	24.0	172.7	110.6	256.9
30	FRESNO	15,431.0	37.0	239.8	168.8	330.5
	ALAMEDA	19,558.3	#	#	#	#
	BUTTE	2,471.7	#	#	#	#
	COLUSA	299.7	#	#	#	#
	IMPERIAL	3,159.0	#	#	#	#
	KINGS	2,288.3	#	#	#	#
	MADERA	2,297.7	#	#	#	#
	MENDOCINO	1,032.0	#	#	#	#
	SACRAMENTO	19,636.0	#	#	#	#
	SAN BERNARDINO	31,013.0	#	#	#	#
	SAN DIEGO	43,765.7	#	#	#	#
	SAN FRANCISCO	9,045.0	#	#	#	#
	SAN JOAQUIN	10,116.7	#	#	#	#
	SAN LUIS OBISPO	2,615.0	#	#	#	#
	SANTA BARBARA	5,667.7	#	#	#	#
	SANTA CRUZ	2,897.0	#	#	#	#
	SHASTA	2,068.3	#	#	#	#
	SONOMA	5,018.3	#	#	#	#
	STANISLAUS	7,696.0	#	#	#	#
	TULARE	7,392.0	#	#	#	#
	VENTURA	458.7	#	#	#	#

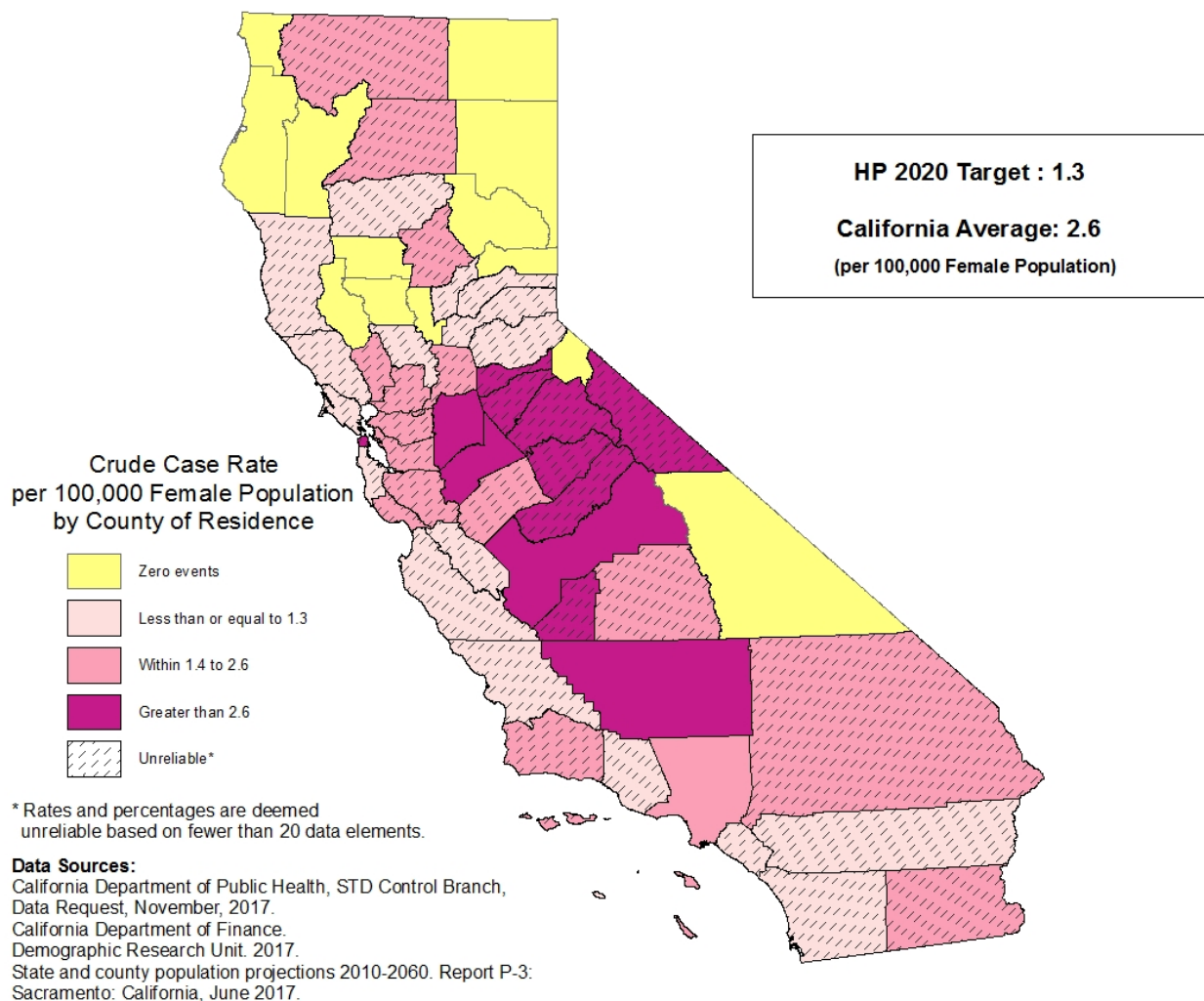
- Rates, percentages, and confidence limits are not calculated for zero events.

Results masked per Data De-Identification Guidelines (DDG). See technical notes for more information.

Note: Counties were rank ordered by increasing case rate, DDG listed alphabetically. See technical notes for more information.

Sources: California Department of Public Health, STD Control Branch, Richmond CA. Data Request, November 2017. California Department of Public Health: 2014-2016 Birth Records.

REPORTED INCIDENCE OF PRIMARY AND SECONDARY SYPHILIS AMONG FEMALES, 2014-2016



The crude case rate of reported incidence of primary and secondary syphilis among females (FS-Cases), for California was 2.6 cases per 100,000 female population, or approximately one reported incidence of syphilis for every 38,890.1 females. The crude case rate for California was based on a 2014 through 2016 three-year average number of reported incidence of FS-Cases, equaling 504.7 and a corresponding female population count of 19,626,552 as of July 1, 2015.

Among counties with reliable rates, the crude case rate ranged from 20.7 in Fresno County to 1.7 in Los Angeles County, a factor of 12.1 to 1.

Zero counties, with reliable crude case rates met the Healthy People 2020 National Objective STD-7.1 of no more than 1.3 reported FS-Cases per 100,000 female population. California also did not meet the Healthy People 2020 National Objective. Seventeen counties with unreliable rates and thirteen counties with zero reported incidences of FS-Cases met the objective.

Thirty-one counties' data was suppressed per the Data De-Identification Guidelines (DDG). The three-year average case count, crude case rate, as well as lower/upper confidence limits were masked with a ' # ' symbol. See technical notes for more information regarding DDG.

The California crude case rate of FS-Cases for the 2011-2013 period was 0.8 per 100,000 female population.

**TABLE 23F
REPORTED INCIDENCE OF PRIMARY AND SECONDARY SYPHILIS AMONG FEMALES
RANKED BY THREE-YEAR AVERAGE CRUDE CASE RATE
CALIFORNIA COUNTIES, 2014-2016**

RANK ORDER	COUNTY OF RESIDENCE	2015 FEMALE POPULATION	2014-2016 CASES (AVERAGE)	CRUDE CASE RATE	95% CONFIDENCE LIMITS	
					LOWER	UPPER
1	HUMBOLDT	67,281	0.0	-	-	-
2	SUTTER	49,016	0.0	-	-	-
3	LAKE	32,571	0.0	-	-	-
4	GLENN	14,306	0.0	-	-	-
5	DEL NORTE	12,288	0.0	-	-	-
6	LASSEN	11,660	0.0	-	-	-
7	COLUSA	10,850	0.0	-	-	-
8	PLUMAS	9,808	0.0	-	-	-
9	INYO	9,228	0.0	-	-	-
10	TRINITY	6,616	0.0	-	-	-
11	MODOC	4,768	0.0	-	-	-
12	SIERRA	1,555	0.0	-	-	-
13	ALPINE	562	0.0	-	-	-
14	ORANGE	1,593,602	14.0	0.9 *	0.5	1.5
15	RIVERSIDE	1,170,700	11.3	1.0 *	0.5	1.7
16	SAN DIEGO	1,629,082	18.0	1.1 *	0.7	1.7
	EL DORADO	91,248	#	#	#	#
	MARIN	133,055	#	#	#	#
	MENDOCINO	44,095	#	#	#	#
	MONTEREY	212,301	#	#	#	#
	NEVADA	49,610	#	#	#	#
	PLACER	188,914	#	#	#	#
	SAN BENITO	28,837	#	#	#	#
	SAN LUIS OBISPO	135,500	#	#	#	#
	SAN MATEO	387,740	#	#	#	#
	SONOMA	254,570	#	#	#	#
	TEHAMA	32,201	#	#	#	#
	VENTURA	428,095	#	#	#	#
	YOLO	108,972	#	#	#	#
	YUBA	37,492	#	#	#	#
	HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: STD - 7.1			1.3		
17	SAN BERNARDINO	1,071,486	14.7	1.4 *	0.8	2.3
18	LOS ANGELES	5,155,935	88.3	1.7	1.4	2.1
19	SANTA CLARA	950,011	16.3	1.7 *	1.0	2.8
20	ALAMEDA	824,289	15.3	1.9 *	1.0	3.1
21	CONTRA COSTA	570,983	11.7	2.0 *	1.0	3.6
22	SACRAMENTO	758,785	19.3	2.5 *	1.5	4.0
	CALIFORNIA	19,626,552	504.7	2.6	2.3	2.8
23	SAN FRANCISCO	425,838	11.7	2.7 *	1.4	4.8
24	STANISLAUS	271,621	20.0	7.4	4.5	11.4
25	KERN	430,036	55.0	12.8	9.6	16.6
26	SAN JOAQUIN	364,647	47.7	13.1	9.6	17.3
27	FRESNO	490,084	101.7	20.7	16.7	24.8
	AMADOR	17,493	#	#	#	#
	BUTTE	112,856	#	#	#	#
	CALAVERAS	22,488	#	#	#	#
	IMPERIAL	91,238	#	#	#	#
	KINGS	67,735	#	#	#	#
	MADERA	80,033	#	#	#	#
	MARIPOSA	8,938	#	#	#	#
	MERCED	133,664	#	#	#	#
	MONO	6,500	#	#	#	#
	NAPA	70,960	#	#	#	#
	SANTA BARBARA	220,621	#	#	#	#
	SANTA CRUZ	137,253	#	#	#	#
	SHASTA	91,010	#	#	#	#
	SISKIYOU	22,338	#	#	#	#
	SOLANO	215,695	#	#	#	#
	TULARE	231,292	#	#	#	#
	TUOLUMNE	26,200	#	#	#	#

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

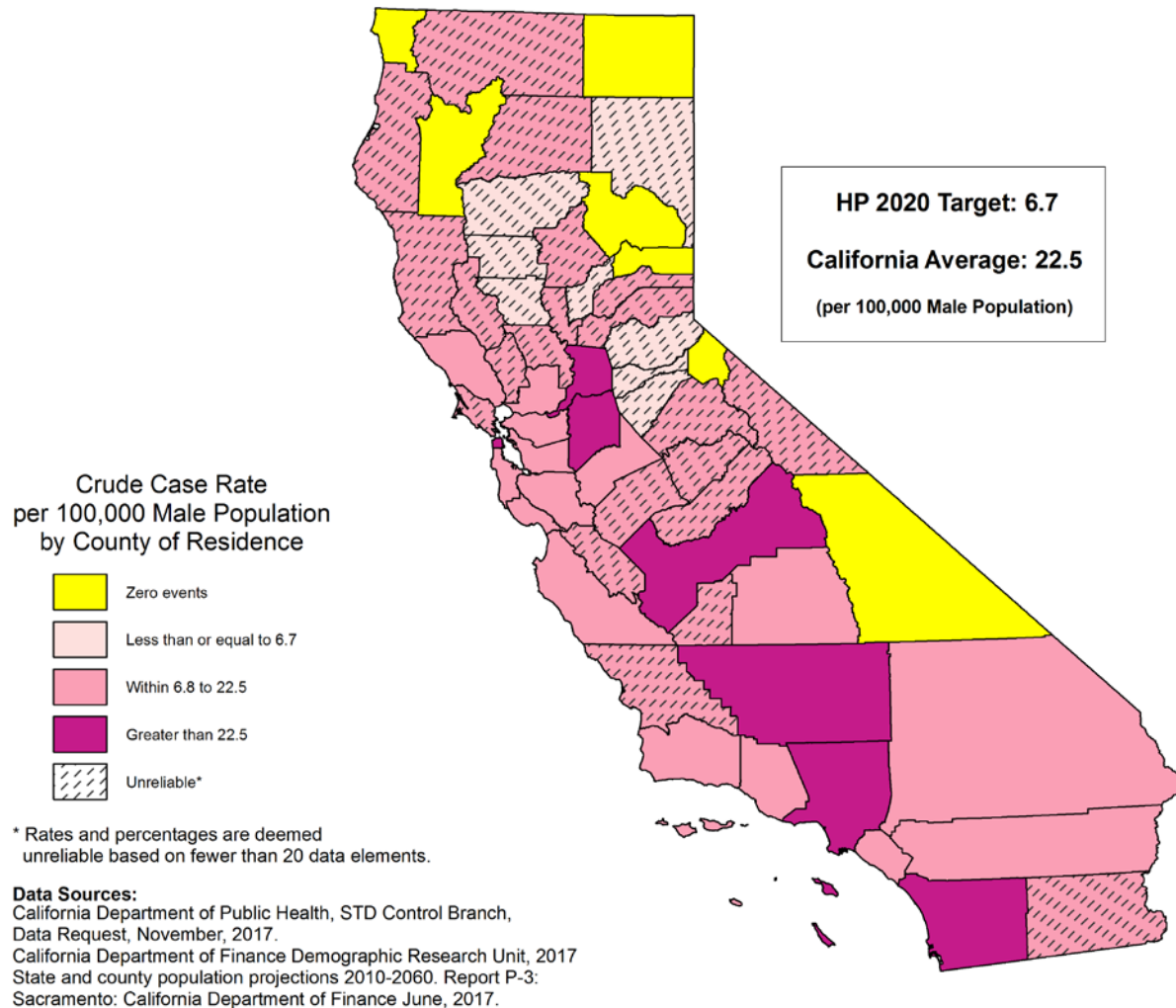
* Rates are deemed unreliable based on fewer than 20 data elements.

Results masked per Data De-Identification Guidelines (DDG). See technical notes for more information.

Note: Counties were rank ordered by increasing case rate, DDG listed alphabetically. See technical notes for more information.

Sources: California Department of Public Health, STD Control Branch, Richmond CA. Data Request, November 2017. State of California, Department of Finance, Report P-3: State & County Population Projections by Race/Ethnicity, Detailed Age, and Gender, 2010-2060. Sacramento, California, June 2017.

REPORTED INCIDENCE OF PRIMARY AND SECONDARY SYPHILIS AMONG MALES, 2014-2016



The crude case rate of reported incidence of primary and secondary syphilis among males (MS-Cases), for California was 22.5 cases per 100,000 male population, or approximately one reported incidence of syphilis for every 4,438.5 males. The crude case rate for California was based on a 2014 through 2016 three-year average number of reported incidence of MS-Cases, equaling 4,378.3 and a corresponding male population count of 19,433,257 as of July 1, 2015.

Among counties with reliable rates, the crude case rate ranged from 107.0 in San Francisco County to 8.3 in Ventura County, a factor of 12.8 to 1.

Zero counties with reliable crude case rates and California did not meet the Healthy People 2020 National Objective STD-7.2 of no more than 6.7 reported MS-Cases per 100,000 male population. There were eight counties with unreliable rates that did meet the Healthy People 2020 National Objective. Additionally, there were seven counties with zero reported incidences of MS-Cases.

Twenty-three counties' data was suppressed per the Data De-Identification Guidelines (DDG). The three-year average case count, crude case rate, as well as lower/upper confidence limits were masked with a '#' symbol. See technical notes for more information regarding DDG.

The California crude case rate of MS-Cases for the 2011-2013 period was 15.0 per 100,000 male population.

**TABLE 23M
REPORTED INCIDENCE OF PRIMARY AND SECONDARY SYPHILIS AMONG MALES
RANKED BY THREE-YEAR AVERAGE CRUDE CASE RATE
CALIFORNIA COUNTIES, 2014-2016**

RANK ORDER	COUNTY OF RESIDENCE	2015 MALE POPULATION	2014-2016 CASES (AVERAGE)	CRUDE CASE RATE	95% CONFIDENCE LIMITS	
					LOWER	UPPER
1	DEL NORTE	14,831.0	0.0	-	-	-
2	PLUMAS	9,778.0	0.0	-	-	-
3	INYO	9,412.0	0.0	-	-	-
4	TRINITY	6,946.0	0.0	-	-	-
5	MODOC	4,739.0	0.0	-	-	-
6	SIERRA	1,592.0	0.0	-	-	-
7	ALPINE	595.0	0.0	-	-	-
	AMADOR	19,821	#	#	#	#
	CALAVERAS	22,411	#	#	#	#
	COLUSA	11,421	#	#	#	#
	EL DORADO	91,892	#	#	#	#
	GLENN	14,654	#	#	#	#
	LASSEN	19,309	#	#	#	#
	TEHAMA	31,769	#	#	#	#
	YUBA	38,087	#	#	#	#
HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: STD-7.2				6.7		
8	PLACER	181,824	13.3	7.3 *	3.9	12.5
9	VENTURA	423,918	35.3	8.3	5.8	11.6
10	MERCED	136,065	12.0	8.8 *	4.6	15.4
11	SAN BERNARDINO	1,058,365	117.3	11.1	9.1	13.1
12	SANTA BARBARA	224,279	26.0	11.6	7.6	17.0
13	TULARE	231,999	27.7	11.9	7.9	17.3
14	MONTEREY	223,941	28.3	12.7	8.4	18.2
15	SONOMA	246,612	31.7	12.8	8.8	18.2
16	MARIN	129,050	16.7	12.9 *	7.5	20.8
17	CONTRA COSTA	545,899	73.0	13.4	10.5	16.8
18	SAN MATEO	376,639	54.0	14.3	10.8	18.7
19	SANTA CLARA	965,091	139.7	14.5	12.1	16.9
20	ORANGE	1,567,616	242.7	15.5	13.5	17.4
21	KINGS	81,967	13.3	16.3 *	8.7	27.6
22	SOLANO	213,572	35.3	16.5	11.5	23.0
23	YOLO	103,714	17.3	16.7 *	9.8	26.6
24	RIVERSIDE	1,158,556	214.3	18.5	16.0	21.0
25	ALAMEDA	795,390	150.0	18.9	15.8	21.9
26	MADERA	74,923	14.3	19.1 *	10.5	31.9
27	SANTA CRUZ	137,444	26.3	19.2	12.6	28.0
28	STANISLAUS	266,751	55.7	20.9	15.7	27.1
	CALIFORNIA	19,433,257	4,378.3	22.5	21.9	23.2
29	SACRAMENTO	731,167	179.0	24.5	20.9	28.1
30	SAN DIEGO	1,646,002	448.7	27.3	24.7	29.8
31	KERN	453,291	130.3	28.8	23.8	33.7
32	LOS ANGELES	5,029,552	1,449.3	28.8	27.3	30.3
33	SAN JOAQUIN	362,900	113.0	31.1	25.4	36.9
34	FRESNO	489,273	160.3	32.8	27.7	37.8
35	SAN FRANCISCO	437,270	468.0	107.0	97.3	116.7
	BUTTE	111,507	#	#	#	#
	HUMBOLDT	67,809	#	#	#	#
	IMPERIAL	94,090	#	#	#	#
	LAKE	32,609	#	#	#	#
	MARIPOSA	9,150	#	#	#	#
	MENDOCINO	44,334	#	#	#	#
	MONO	7,318	#	#	#	#
	NAPA	70,586	#	#	#	#
	NEVADA	48,580	#	#	#	#
	SAN BENITO	28,747	#	#	#	#
	SAN LUIS OBISPO	141,344	#	#	#	#
	SHASTA	87,767	#	#	#	#
	SISKIYOU	22,162	#	#	#	#
	SUTTER	48,602	#	#	#	#
	TUOLUMNE	28,325	#	#	#	#

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

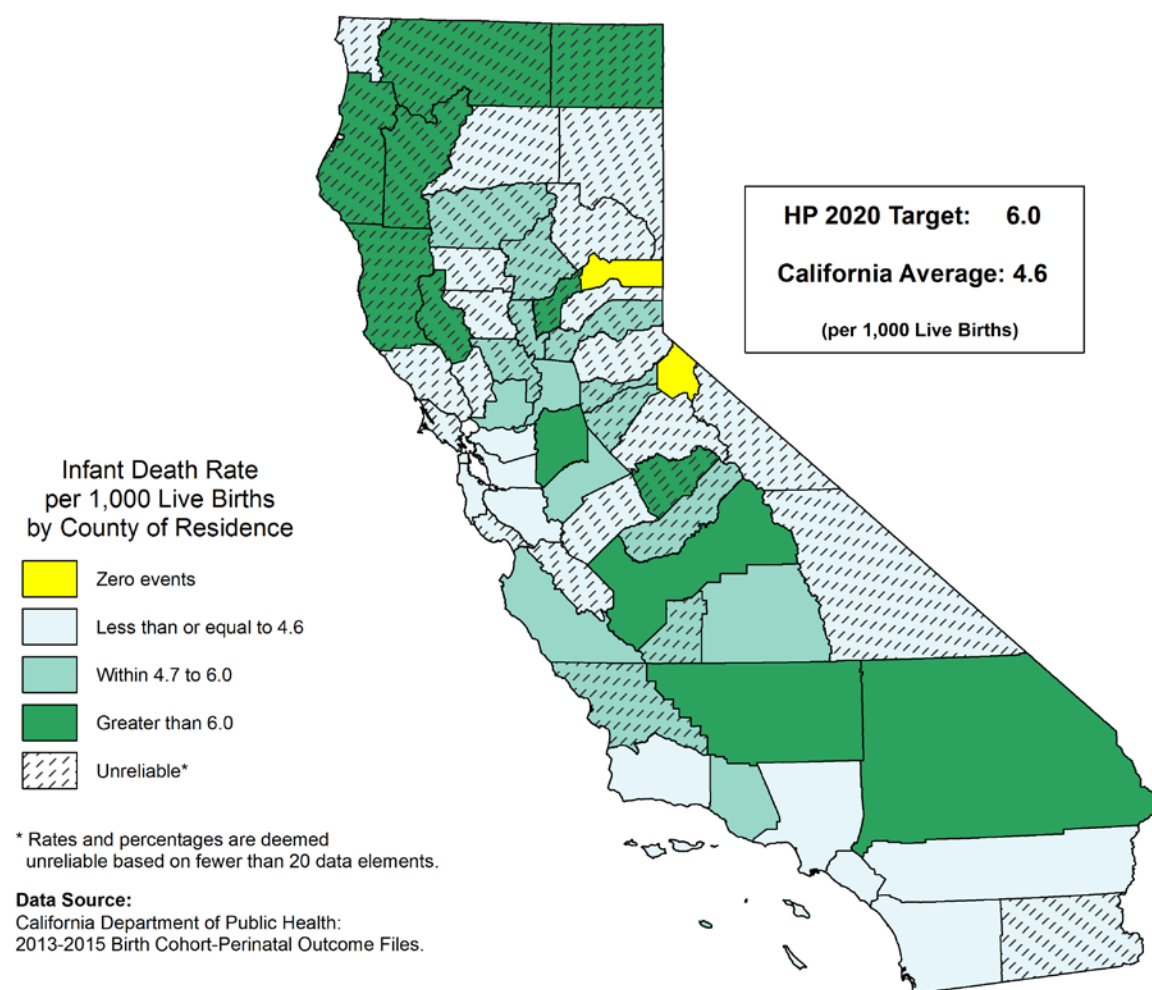
* Rates are deemed unreliable based on fewer than 20 data elements.

Results masked per Data De-Identification Guidelines (DDG). See technical notes for more information.

Note: Counties were rank ordered by increasing case rate, DDG listed alphabetically. See technical notes for more information.

Sources: California Department of Public Health, STD Control Branch, Richmond CA. Data Request, November 2017. State of California, Department of Finance, Report P-3: State & County Population Projections by Race/Ethnicity, Detailed Age, and Gender, 2010-2060. Sacramento, California, June 2017.

INFANT MORTALITY, ALL RACE/ETHNIC GROUPS, 2013-2015



The California birth cohort infant mortality death rate (IMR) for all race/ethnic groups was 4.6 deaths per 1,000 live births, a risk of dying equivalent to approximately one infant death for every 218.1 live births in the infant group. This IMR was based on 2013 through 2015 three-year average numbers for all race/ethnic groups' infant deaths equaling 2,276.0 and live births equaling 496,484.0 as of December 27, 2017.

Among counties with reliable rates, the birth cohort IMR for all race/ethnic groups ranged from 8.1 in Fresno County to 2.6 in San Mateo County, a factor of 3.1 to 1.

Sixteen counties with reliable birth cohort IMR and California as a whole met the Healthy People 2020 National Objective MICH-1.3 of no more than 6.0 infant deaths per 1,000 live births. An additional 28 counties with unreliable rates as well as two counties with zero infant deaths met the objective.

Fifty-eight counties' data was suppressed per the Data De-Identification Guidelines (DDG). The individual counties' three-year average count of infant deaths were masked with a ' # ' symbol. See technical notes for more information regarding DDG.

The California birth cohort IMR for all race/ethnic groups for the 2010-2012 period was 4.8 per 1,000 live births.

TABLE 24A
INFANT MORTALITY, ALL RACE/ETHNIC GROUPS
RANKED BY THREE-YEAR AVERAGE BIRTH COHORT INFANT DEATH RATE
CALIFORNIA COUNTIES, 2013-2015

RANK ORDER	COUNTY OF RESIDENCE	THREE-YEAR AVERAGE		BIRTH COHORT INFANT DEATH RATE	95% CONFIDENCE LIMITS	
		LIVE BIRTHS	INFANT DEATHS		LOWER	UPPER
1	SIERRA	#	#	-	-	-
2	ALPINE	#	#	-	-	-
3	PLUMAS	#	#	2.2 *	0.0	28.3
4	LASSEN	#	#	2.2 *	0.0	16.3
5	MONO	#	#	2.2 *	0.0	29.0
6	EL DORADO	#	#	2.3 *	0.6	6.2
7	SAN MATEO	#	#	2.6	1.7	3.9
8	INYO	#	#	3.0 *	0.0	22.7
9	SONOMA	#	#	3.1 *	1.8	5.1
10	DEL NORTE	#	#	3.2 *	0.1	17.8
11	SANTA CLARA	#	#	3.2	2.5	4.0
12	SAN BENITO	#	#	3.2 *	0.5	10.7
13	ORANGE	#	#	3.2	2.7	3.8
14	MARIN	#	#	3.3 *	1.4	6.6
15	SAN FRANCISCO	#	#	3.3	2.2	4.7
16	COLUSA	#	#	3.3 *	0.1	18.7
17	NAPA	#	#	3.4 *	1.1	8.0
18	IMPERIAL	#	#	3.5 *	1.7	6.2
19	NEVADA	#	#	3.6 *	0.7	10.5
20	MERCED	#	#	3.9 *	2.2	6.3
21	CONTRA COSTA	#	#	3.9	2.9	5.1
22	SANTA BARBARA	#	#	4.0	2.5	6.0
23	SAN DIEGO	#	#	4.0	3.4	4.6
24	GLENN	#	#	4.2 *	0.4	16.8
25	SANTA CRUZ	#	#	4.2 *	2.2	7.3
26	ALAMEDA	#	#	4.2	3.4	5.3
27	SHASTA	#	#	4.3 *	2.0	8.1
28	LOS ANGELES	#	#	4.3	3.9	4.6
29	TUOLUMNE	#	#	4.3 *	0.5	15.5
30	RIVERSIDE	#	#	4.6	3.8	5.3
	CALIFORNIA	#	#	4.6	4.4	4.8
31	CALAVERAS	#	#	4.7 *	0.4	18.8
32	PLACER	#	#	4.8 *	2.8	7.6
33	VENTURA	#	#	4.8	3.6	6.4
34	BUTTE	#	#	4.9 *	2.5	8.6
35	SAN LUIS OBISPO	#	#	4.9 *	2.6	8.4
36	MADERA	#	#	5.0 *	2.5	8.8
37	SACRAMENTO	#	#	5.2	4.2	6.2
38	MONTEREY	#	#	5.2	3.6	7.3
39	SUTTER	#	#	5.4 *	2.2	11.1
40	STANISLAUS	#	#	5.4	3.9	7.3
41	KINGS	#	#	5.4 *	2.9	9.3
42	SOLANO	#	#	5.4	3.6	7.8
43	YOLO	#	#	5.5 *	2.9	9.3
44	TULARE	#	#	5.8	4.2	7.8
45	AMADOR	#	#	5.8 *	0.5	23.4
46	TEHAMA	#	#	5.9 *	1.8	14.2
HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: MICH-1.3				6.0		
47	SAN BERNARDINO	#	#	6.3	5.5	7.2
48	TRINITY	#	#	6.4 *	0.0	47.6
49	SAN JOAQUIN	#	#	6.4	4.9	8.2
50	HUMBOLDT	#	#	6.7 *	3.2	12.4
51	KERN	#	#	6.8	5.5	8.4
52	MARIPOSA	#	#	6.8 *	0.2	38.2
53	LAKE	#	#	7.2 *	2.4	16.3
54	SISKIYOU	#	#	7.3 *	1.7	20.4
55	MENDOCINO	#	#	7.4 *	3.1	14.9
56	YUBA	#	#	7.6 *	3.5	14.4
57	FRESNO	#	#	8.1	6.7	9.6
58	MODOC	#	#	12.9 *	0.3	71.7

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

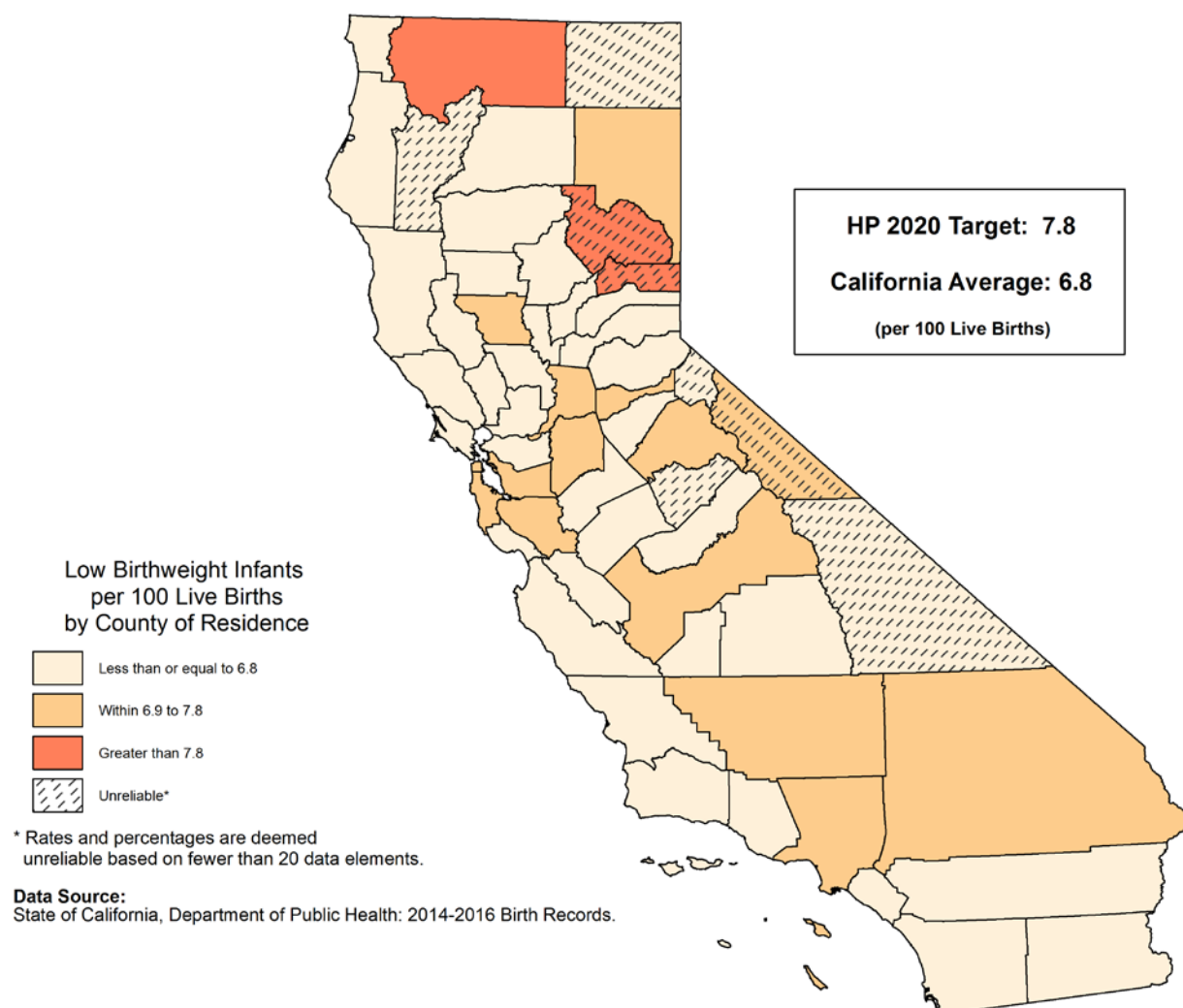
* Rates are deemed unreliable based on fewer than 20 data elements.

Results masked per Data De-Identification Guidelines (DDG). See technical notes for more information.

Note: Counties were rank ordered first by increasing birth cohort death rate, DDG listed alphabetically. See technical notes for more information.

Source: California Department of Public Health: 2013-2015 Birth Cohort-Perinatal Outcome Files.

LOW BIRTHWEIGHT INFANTS, 2014-2016



The percentage of low birthweight infants for California was 6.8 per 100 live births, or about one infant with low birthweight for every 14.7 live births. The percentage for California was based on a 2014 through 2016 three-year average number of low birthweight infants equaling 33,655.3 and live births count of 494,523.7.

Among counties with reliable percentages, the percentage of low birthweight infants ranged from 8.3 in Siskiyou County to 5.4 percent in Glenn County, a factor of 1.5 to 1.

Forty-nine 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. Six counties with unreliable percentage met the objective.

Six counties' data was suppressed per the Data De-Identification Guidelines (DDG) set forth. Individual counties' three-year average count of live births, low birthweight counts, percentages of counts as well as Lower/Upper Confidence Limits were masked with a ' # ' symbol. See technical notes for more information regarding DDG.

The California percentage of low birthweight infants for the 2011-2013 period was 6.8 per 100 live births.

**TABLE 25
LOW BIRTHWEIGHT INFANTS
RANKED BY THREE-YEAR AVERAGE LOW BIRTHWEIGHT PERCENTAGE
CALIFORNIA COUNTIES, 2014-2016**

RANK ORDER	COUNTY OF RESIDENCE	2014-2016 LIVE BIRTHS (AVERAGE)				
		LIVE BIRTHS	LOW BIRTHWEIGHT		95% CONFIDENCE LIMITS	
			NUMBER	PERCENT	LOWER	UPPER
1	GLENN	390.3	21.0	5.4	3.3	8.2
2	NAPA	1,446.7	78.7	5.4	4.3	6.8
3	SANTA CRUZ	2,897.0	163.0	5.6	4.8	6.5
4	IMPERIAL	3,158.3	179.0	5.7	4.8	6.5
5	PLACER	3,707.7	211.0	5.7	4.9	6.5
6	YOLO	2,406.3	137.3	5.7	4.8	6.7
7	SONOMA	5,018.0	293.3	5.8	5.2	6.5
8	MARIN	2,315.3	136.0	5.9	4.9	6.9
9	MERCED	4,126.7	243.3	5.9	5.2	6.6
10	NEVADA	825.0	49.0	5.9	4.4	7.9
11	HUMBOLDT	1,470.3	87.7	6.0	4.8	7.3
12	CALAVERAS	367.0	22.0	6.0	3.8	9.1
13	SAN LUIS OBISPO	2,613.7	158.3	6.1	5.1	7.0
14	VENTURA	10,041.7	609.0	6.1	5.6	6.5
15	TEHAMA	801.3	48.7	6.1	4.5	8.0
16	BUTTE	2,471.0	151.0	6.1	5.1	7.1
17	SHASTA	2,068.0	127.0	6.1	5.1	7.2
18	MONTEREY	6,368.7	393.3	6.2	5.6	6.8
19	SAN BENITO	731.0	45.7	6.2	4.6	8.3
20	ORANGE	38,116.7	2,396.7	6.3	6.0	6.5
21	LAKE	740.3	46.7	6.3	4.6	8.4
22	MADERA	2,297.7	145.7	6.3	5.3	7.4
23	SANTA BARBARA	5,667.0	359.3	6.3	5.7	7.0
24	INYO	203.7	13.0	6.4 *	3.4	10.9
25	MENDOCINO	1,031.7	66.3	6.4	5.0	8.2
26	KINGS	2,288.3	147.3	6.4	5.4	7.5
27	YUBA	1,195.7	77.3	6.5	5.1	8.1
28	STANISLAUS	7,692.7	499.0	6.5	5.9	7.1
29	SOLANO	5,215.0	340.0	6.5	5.8	7.2
30	SAN DIEGO	43,763.3	2,855.7	6.5	6.3	6.8
31	DEL NORTE	311.0	20.7	6.6	4.1	10.2
32	RIVERSIDE	30,486.7	2,036.7	6.7	6.4	7.0
33	EL DORADO	1,605.0	107.3	6.7	5.4	8.0
34	SUTTER	1,329.0	90.0	6.8	5.4	8.3
35	TULARE	7,392.0	501.7	6.8	6.2	7.4
36	CONTRA COSTA	12,500.3	854.3	6.8	6.4	7.3
	CALIFORNIA	494,523.7	33,655.3	6.8	6.7	6.9
37	SAN FRANCISCO	9,044.7	621.3	6.9	6.3	7.4
38	SACRAMENTO	19,632.3	1,356.3	6.9	6.5	7.3
39	SANTA CLARA	23,396.0	1,630.7	7.0	6.6	7.3
40	AMADOR	301.0	21.0	7.0	4.3	10.7
41	SAN MATEO	9,032.3	632.0	7.0	6.5	7.5
42	ALAMEDA	19,557.3	1,379.3	7.1	6.7	7.4
43	LOS ANGELES	125,838.0	8,965.3	7.1	7.0	7.3
44	SAN BERNARDINO	31,012.7	2,249.3	7.3	7.0	7.6
45	SAN JOAQUIN	10,116.0	734.3	7.3	6.7	7.8
46	KERN	13,893.0	1,009.7	7.3	6.8	7.7
47	COLUSA	299.7	22.3	7.5	4.7	11.2
48	TUOLUMNE	458.7	34.3	7.5	5.2	10.4
49	LASSEN	308.7	23.3	7.6	4.8	11.3
50	FRESNO	15,429.3	1,176.0	7.6	7.2	8.1
	ALPINE	#	#	#	#	#
	MARIPOSA	150.7	#	#	#	#
	MODOC	89.0	#	#	#	#
	MONO	144.0	#	#	#	#
	TRINITY	107.7	#	#	#	#
	HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: MICH-8.1			7.8		
51	SISKIYOU	459.7	38.0	8.3	5.9	11.3
52	PLUMAS	159.7	17.0	10.6 *	6.2	17.0
	SIERRA	#	#	#	#	#

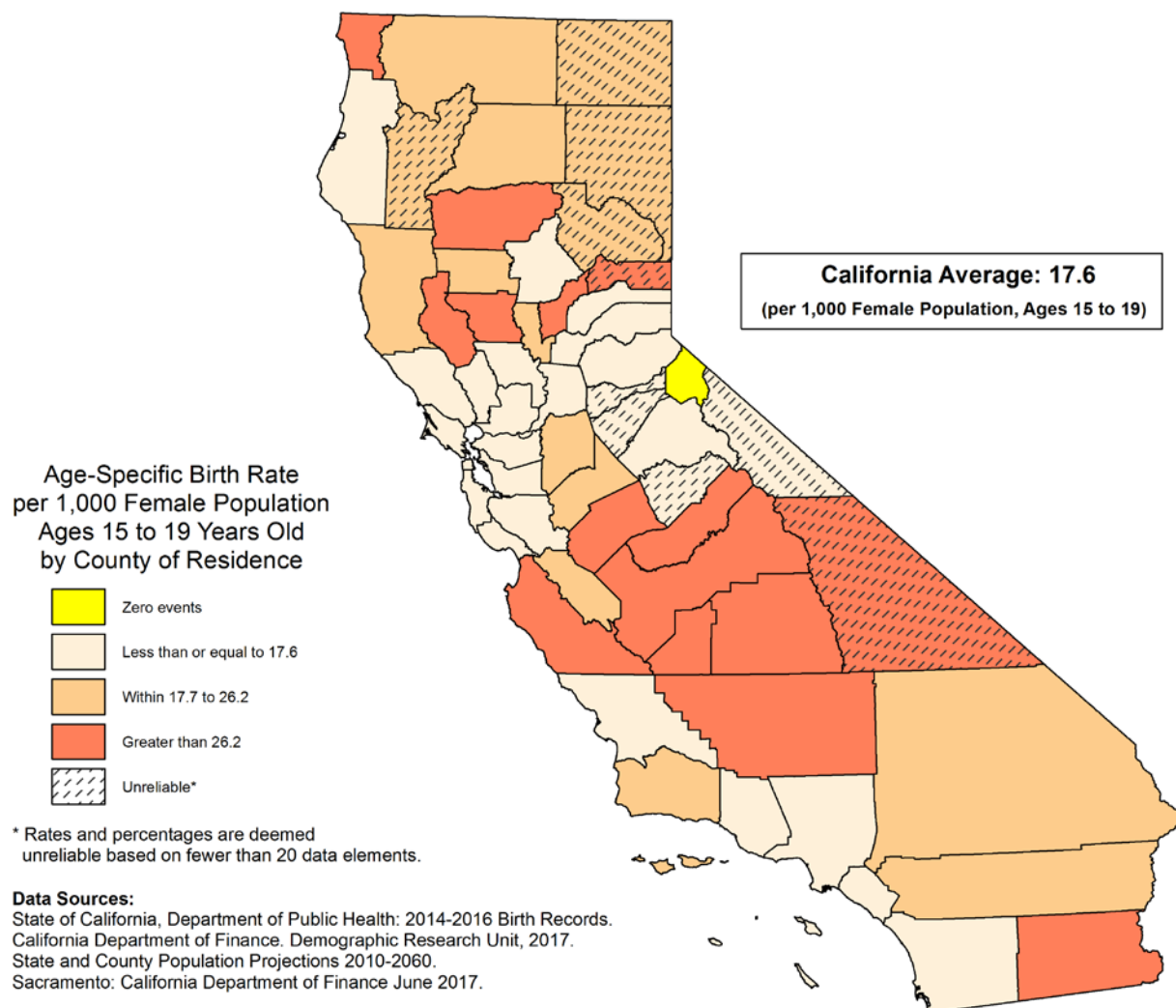
* Rates are deemed unreliable based on fewer than 20 data elements.

Results masked per Data De-Identification Guidelines (DDG). See technical notes for more information.

Note: Counties were rank ordered by percent, DDG listed alphabetically. See technical notes for more information.

Sources: California Department of Public Health: 2014-2016 Birth Records.

BIRTHS TO ADOLESCENT MOTHERS, 15 TO 19 YEARS OLD, 2014-2016



The age-specific birth rate to adolescent mothers, ages 15 to 19 years old, for California was 17.6 births per 1,000 female population, ages 15 to 19 years old, or approximately one birth for every 56.8 females in the corresponding age group. The age specific birth rate for California was based on a 2014 through 2016 three-year average number of births to adolescent mothers, ages 15 to 19 years old, equaling 24,209.3 and a population count for females, ages 15 to 19 years old, of 1,374,300 as of July 1, 2015.

Among counties with reliable rates, the age-specific birth rate of births to adolescent mothers, ages 15 to 19 years old, ranged from 38.1 in Del Norte County to 7.4 in Marin County and 7.4 in San Francisco County, a factor of 5.1 to 1.

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

Six counties' data was suppressed per the Data De-Identification Guidelines (DDG). The three-year average case count of live births, age-specific birth rates, as well as lower/upper confidence limits were masked with a ' # ' symbol. See technical notes for more information regarding DDG.

The California age-specific birth rate to adolescent mothers, ages 15 to 19 years old, for the 2011-2013 period was 24.9 per 1,000 female population in the corresponding age group.

TABLE 26
BIRTHS TO ADOLESCENT MOTHERS, 15 TO 19 YEARS OLD
RANKED BY THREE-YEAR AVERAGE AGE-SPECIFIC BIRTH RATE
CALIFORNIA COUNTIES, 2014-2016

RANK ORDER	COUNTY OF RESIDENCE	2015 FEMALE POPULATION 15-19 YRS OLD	2014-2016 LIVE BIRTHS (AVERAGE)	AGE-SPECIFIC BIRTH RATE	95% CONFIDENCE LIMITS	
					LOWER	UPPER
HEALTY PEOPLE 2020 NATIONAL OBJECTIVE:				NOT ESTABLISHED		
1	ALPINE	46	0.0	-	-	-
2	MARIN	7,117	52.3	7.4	5.5	9.6
3	SAN FRANCISCO	17,328	128.7	7.4	6.1	8.7
4	PLACER	11,971	89.7	7.5	6.0	9.2
5	EL DORADO	6,294	52.3	8.3	6.2	10.9
6	YOLO	10,256	91.0	8.9	7.1	10.9
7	ALAMEDA	51,867	499.0	9.6	8.8	10.5
8	SAN MATEO	19,630	200.7	10.2	8.8	11.6
9	NEVADA	2,761	28.3	10.3	6.8	14.8
10	SANTA CLARA	58,928	617.7	10.5	9.7	11.3
11	SONOMA	16,384	175.0	10.7	9.1	12.3
12	CONTRA COSTA	35,535	387.0	10.9	9.8	12.0
13	CALAVERAS	1,331	14.7	11.0 *	6.1	18.3
14	SAN LUIS OBISPO	10,350	121.7	11.8	9.7	13.8
15	ORANGE	113,060	1,376.3	12.2	11.5	12.8
16	SANTA CRUZ	11,986	146.0	12.2	10.2	14.2
17	NAPA	4,740	59.0	12.4	9.5	16.1
18	HUMBOLDT	4,768	69.3	14.5	11.3	18.4
19	SOLANO	14,963	221.7	14.8	12.9	16.8
20	TUOLUMNE	1,453	21.7	14.9	9.3	22.6
21	SAN DIEGO	110,414	1737.3	15.7	15.0	16.5
22	AMADOR	989	15.7	15.8 *	9.0	25.9
23	BUTTE	8,662	137.7	15.9	13.2	18.5
24	VENTURA	30,009	496.3	16.5	15.1	18.0
25	SACRAMENTO	53,124	883.0	16.6	15.5	17.7
26	LOS ANGELES	358,375	6,083.7	17.0	16.5	17.4
	CALIFORNIA	1,374,300	24,209.3	17.6	17.4	17.8
27	SAN BENITO	2,248	41.7	18.5	13.3	25.1
28	SANTA BARBARA	19,093	359.0	18.8	16.9	20.7
29	RIVERSIDE	91,332	1781.3	19.5	18.6	20.4
30	LASSEN	795	16.0	20.1 *	11.5	32.7
31	SUTTER	3,560	73.0	20.5	16.1	25.8
32	SHASTA	5,581	120.0	21.5	17.7	25.3
33	SAN JOAQUIN	28,560	615.7	21.6	19.9	23.3
34	SISKIYOU	1,352	29.3	21.7	14.6	31.1
35	SAN BERNARDINO	84,013	2,042.3	24.3	23.3	25.4
36	GLENN	1,065	26.0	24.4	15.9	35.8
37	MENDOCINO	2,599	64.7	24.9	19.2	31.7
38	STANISLAUS	21,205	531.0	25.0	22.9	27.2
39	COLUSA	814	22.3	27.4	17.3	41.4
40	MONTEREY	15,912	440.0	27.7	25.1	30.2
41	YUBA	2,723	77.7	28.5	22.5	35.6
42	MERCED	11,863	342.7	28.9	25.8	31.9
43	INYO	542	15.7	28.9 *	16.4	47.2
44	TEHAMA	2,160	63.0	29.2	22.4	37.3
45	FRESNO	40,215	1187.3	29.5	27.8	31.2
46	LAKE	1,801	55.0	30.5	23.0	39.8
47	KINGS	5,829	183.7	31.5	27.0	36.1
48	KERN	34,667	1,225.0	35.3	33.4	37.3
49	MADERA	5,756	204.0	35.4	30.6	40.3
50	TULARE	18,373	655.7	35.7	33.0	38.4
51	IMPERIAL	6,911	259.7	37.6	33.0	42.1
52	DEL NORTE	822	31.3	38.1	26.0	54.0
	MARIPOSA	506	#	#	#	#
	MODOC	307	#	#	#	#
	MONO	372	#	#	#	#
	PLUMAS	519	#	#	#	#
	SIERRA	67	#	#	#	#
	TRINITY	397	#	#	#	#

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

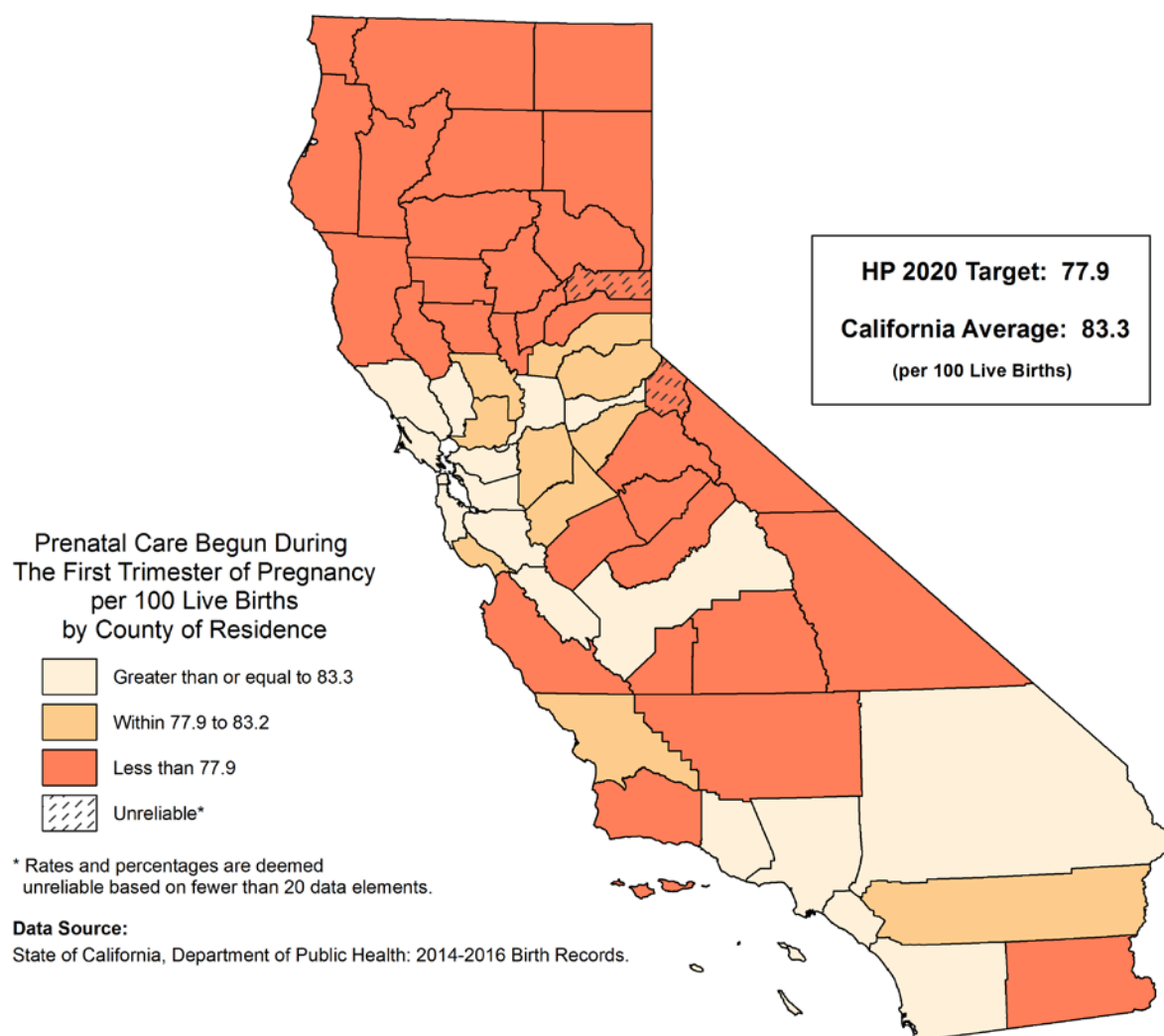
* Rates are deemed unreliable based on fewer than 20 data elements.

Results masked per Data De-Identification Guidelines (DDG). See technical notes for more information.

Note: Counties were rank ordered by age-specific birth rate, DDG listed alphabetically. See technical notes for more information.

Sources: California Department of Public Health: 2014-2016 Birth Records. State of California, Department of Finance, Report P-3: State and County Population Projections by Race/Ethnicity, Detailed Age, and Gender, 2010-2060. Sacramento, California, June 2017.

PRENATAL CARE BEGUN DURING THE FIRST TRIMESTER OF PREGNANCY, 2014-2016



The percentage of births to mothers with prenatal care begun during the first trimester of pregnancy for California was 83.3 per 100 live births. The percentage for California was based on a 2014 through 2016 three-year average number of births to mothers with prenatal care begun during the first trimester of pregnancy equaling 405,647.0 and a live births total of 486,845.7.

Among counties with reliable percentages, the percentage of births to mothers with prenatal care begun during the first trimester of pregnancy ranged from 90.0 in San Mateo County to 42.4 in Imperial County, a factor of 2.1 to 1.

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

Two county's data was suppressed per the Data De-Identification Guidelines (DDG). The live birth count, low birthweight count, percentage, as well as lower/upper confidence limits were masked with a ' # ' symbol. See technical notes for more information regarding DDG.

The California percentage of births to mothers with prenatal care begun during the first trimester of pregnancy for the 2011-2013 period was 83.6 per 100 live births.

TABLE 27A
PRENATAL CARE BEGAN DURING THE FIRST TRIMESTER OF PREGNANCY
RANKED BY PERCENTAGE OF THREE-YEAR AVERAGE FIRST TRIMESTER PRENATAL CARE
CALIFORNIA COUNTIES, 2014-2016

RANK ORDER	COUNTY OF RESIDENCE	LIVE BIRTHS	LOW BIRTHWEIGHT		95% CONFIDENCE LIMITS	
			NUMBER	PERCENT	LOWER	UPPER
1	SAN MATEO	8,992.3	8,094.0	90.0	88.0	92.0
2	ALAMEDA	19,263.7	17,314.7	89.9	88.5	91.2
3	MARIN	2,300.7	2,041.3	88.7	84.9	92.6
4	NAPA	1,434.7	1,265.7	88.2	83.4	93.1
5	FRESNO	15,121.0	13,292.3	87.9	86.4	89.4
6	SAN FRANCISCO	8,975.7	7,862.7	87.6	85.7	89.5
7	ORANGE	37,364.0	32,490.3	87.0	86.0	87.9
8	CONTRA COSTA	12,471.7	10,834.3	86.9	85.2	88.5
9	SONOMA	5,004.7	4,345.0	86.8	84.2	89.4
10	AMADOR	297.3	254.7	85.7	75.1	96.2
11	LOS ANGELES	122,981.7	104,392.0	84.9	84.4	85.4
12	SANTA CLARA	23,327.7	19,799.3	84.9	83.7	86.1
13	SAN BENITO	723.0	611.3	84.6	77.9	91.3
14	SAN DIEGO	43,701.3	36,707.0	84.0	83.1	84.9
15	VENTURA	10,025.0	8,381.7	83.6	81.8	85.4
16	SAN BERNARDINO	30,767.0	25,646.7	83.4	82.3	84.4
17	SACRAMENTO	19,286.3	16,072.3	83.3	82.0	84.6
	CALIFORNIA	486,845.7	405,647.0	83.3	83.1	83.6
18	RIVERSIDE	30,305.3	25,219.3	83.2	82.2	84.2
19	YOLO	2,376.7	1,967.0	82.8	79.1	86.4
20	PLACER	3,691.3	3,052.3	82.7	79.8	85.6
21	SANTA CRUZ	2,834.0	2,335.3	82.4	79.1	85.7
22	SAN LUIS OBISPO	2,578.3	2,075.7	80.5	77.0	84.0
23	EL DORADO	1,599.0	1,277.7	79.9	75.5	84.3
24	SOLANO	5,189.0	4,132.7	79.6	77.2	82.1
25	STANISLAUS	7,158.3	5,687.3	79.5	77.4	81.5
26	CALAVERAS	360.7	284.3	78.8	69.7	88.0
27	SAN JOAQUIN	9,971.0	7,764.3	77.9	76.1	79.6
HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: MICH-10.1				77.9		
28	SANTA BARBARA	5,652.3	4,399.7	77.8	75.5	80.1
29	HUMBOLDT	1,452.3	1,125.0	77.5	72.9	82.0
30	KERN	12,898.0	9,902.0	76.8	75.3	78.3
31	INYO	199.7	152.3	76.3	64.2	88.4
32	TULARE	7,298.7	5,536.7	75.9	73.9	77.9
33	SISKIYOU	451.0	339.0	75.2	67.2	83.2
34	MADERA	2,279.7	1,707.7	74.9	71.4	78.5
35	MONTEREY	6,345.7	4,724.3	74.4	72.3	76.6
36	NEVADA	821.0	607.3	74.0	68.1	79.9
37	MONO	143.3	104.3	72.8	58.8	86.8
38	SHASTA	2,035.7	1,475.0	72.5	68.8	76.2
39	TUOLUMNE	453.7	326.7	72.0	64.2	79.8
40	PLUMAS	153.0	108.7	71.0	57.7	84.4
41	BUTTE	2,461.0	1,740.3	70.7	67.4	74.0
42	LASSEN	292.7	206.3	70.5	60.9	80.1
43	DEL NORTE	309.0	216.7	70.1	60.8	79.5
44	LAKE	722.3	504.7	69.9	63.8	76.0
45	COLUSA	298.0	207.7	69.7	60.2	79.2
46	MENDOCINO	1,004.3	695.7	69.3	64.1	74.4
47	KINGS	2,282.3	1,576.7	69.1	65.7	72.5
48	TEHAMA	796.3	549.3	69.0	63.2	74.8
49	SUTTER	1,324.0	910.7	68.8	64.3	73.2
50	YUBA	1,192.0	817.7	68.6	63.9	73.3
51	MERCED	4,073.0	2,733.0	67.1	64.6	69.6
52	GLENN	389.3	255.3	65.6	57.5	73.6
53	MARIPOSA	145.7	94.3	64.8	52.4	79.2
54	TRINITY	105.7	67.7	64.0	49.7	81.2
55	MODOC	83.7	50.0	59.8	44.4	78.8
56	IMPERIAL	3,049.0	1,292.7	42.4	40.1	44.7
	ALPINE	#	#	#	#	#
	SIERRA	#	#	#	#	#

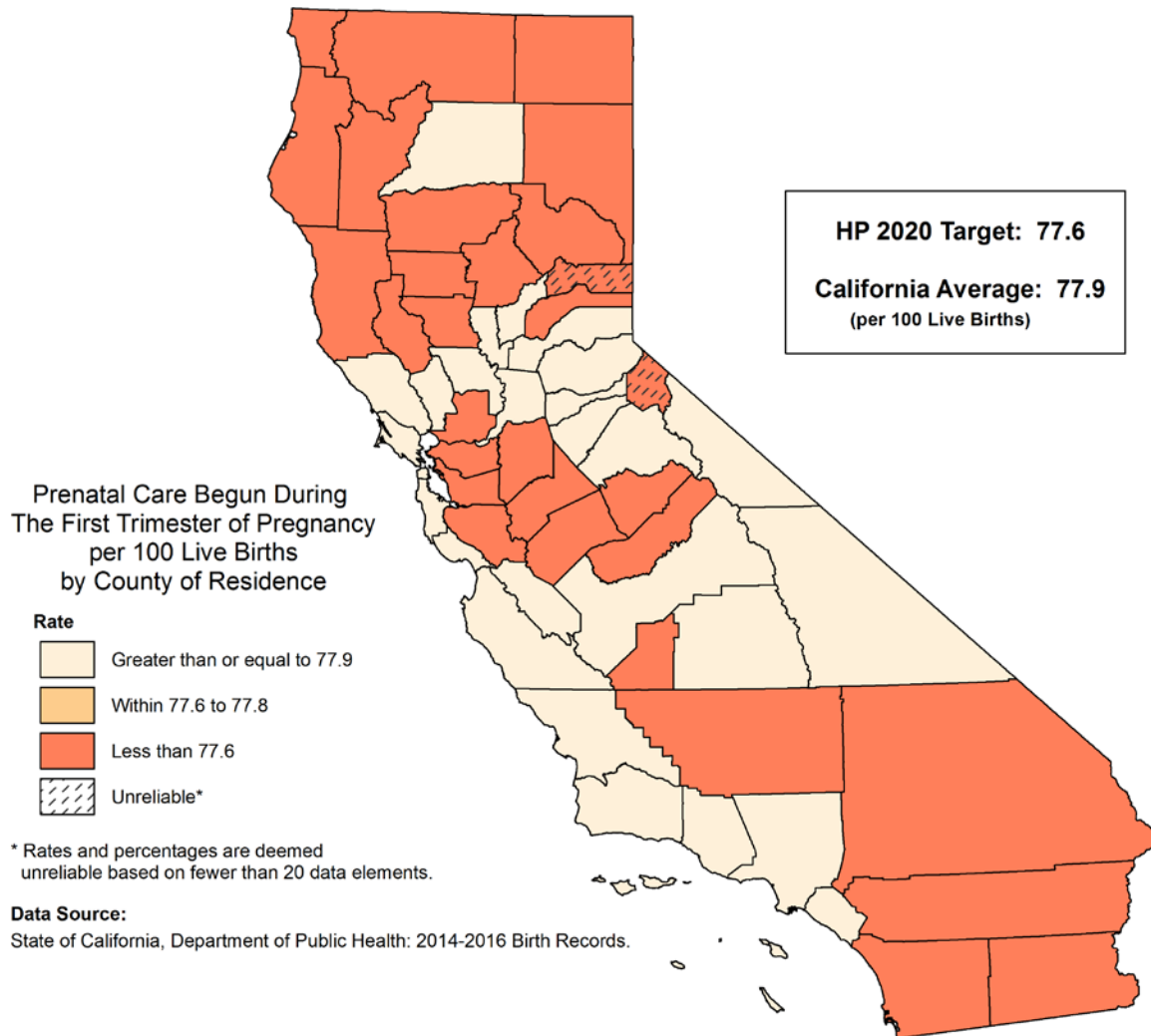
* Rates are deemed unreliable based on fewer than 20 data elements.

Results masked per Data De-Identification Guidelines. See technical notes for more information.

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

Source: California Department of Public Health: 2014-2016 Birth Records.

**'ADEQUATE/ADEQUATE PLUS' PRENATAL CARE
(ADEQUACY OF PRENATAL CARE UTILIZATION INDEX), 2014-2016**



The percentage of births to mothers with 'Adequate/Adequate Plus' prenatal care for California was 77.9. The percentage for California was based on a 2014 through 2016 three-year average number of births to mothers with 'Adequate/Adequate Plus' prenatal care equaling 377,250.7 and a live births total of 483,965.3.

Among counties with reliable percentages, the percentage of births to mothers with 'Adequate/Adequate Plus' prenatal care ranged from 88.8 in Fresno County to 47.1 in Imperial County, a factor of 1.9 to 1.

Twenty-seven counties with reliable percentages and California as a whole met the Healthy People 2020 National Objective MICH-10.2 of increasing the proportion of pregnant women receiving early and adequate prenatal care to at least 77.6 percent of total births according to the Adequacy of Prenatal Care Utilization Index. Please see Technical Notes, Natality Section, for determination of 'Adequate/Adequate Plus' definition and additional clarification.

Two county's data was suppressed per the Data De-Identification Guidelines (DDG). For these counties the count of live births, 'Adequate/Adequate Plus' prenatal care count, percentage, as well as Lower/Upper Confidence Limits were masked with a ' # ' symbol. See technical notes for more information regarding DDG.

The California percentage of births to mothers with 'Adequate/Adequate Plus' prenatal care for the 2011-2013 period was 79.2 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, 2014-2016

RANK ORDER	COUNTY OF RESIDENCE	2014-2016 LIVE BIRTHS (AVERAGE)			95% CONFIDENCE LIMITS	
		TOTAL NUMBER	ADEQUATE/ADEQUATE PLUS PRENATAL CARE		LOWER	UPPER
			NUMBER	PERCENT		
1	FRESNO	15,036.3	13,352.7	88.8	87.3	90.3
2	SAN LUIS OBISPO	2,572.7	2,237.7	87.0	83.4	90.6
3	AMADOR	296.0	255.0	86.1	75.6	96.7
4	VENTURA	10,016.7	8,569.3	85.6	83.7	87.4
5	SANTA BARBARA	5,648.7	4,787.0	84.7	82.3	87.1
6	ORANGE	37,202.7	31,435.0	84.5	83.6	85.4
7	SANTA CRUZ	2,794.0	2,347.3	84.0	80.6	87.4
8	PLACER	3,687.7	3,065.7	83.1	80.2	86.1
9	SAN BENITO	721.0	595.3	82.6	75.9	89.2
10	YOLO	2,374.3	1,947.0	82.0	78.4	85.6
11	SAN MATEO	8,988.7	7,332.7	81.6	79.7	83.4
12	CALAVERAS	359.7	292.3	81.3	72.0	90.6
13	MONO	143.3	116.0	80.9	66.2	95.7
14	SACRAMENTO	19,238.0	15,501.3	80.6	79.3	81.8
15	MARIN	2,299.0	1,849.7	80.5	76.8	84.1
16	SHASTA	2,028.7	1,631.7	80.4	76.5	84.3
17	LOS ANGELES	121,937.0	97,914.0	80.3	79.8	80.8
18	SUTTER	1,323.0	1,060.7	80.2	75.3	85.0
19	EL DORADO	1,596.0	1,271.7	79.7	75.3	84.1
20	TULARE	7,279.0	5,776.3	79.4	77.3	81.4
21	NAPA	1,424.3	1,123.0	78.8	74.2	83.5
22	SONOMA	5,001.3	3,941.3	78.8	76.3	81.3
23	TUOLUMNE	452.0	355.7	78.7	70.5	86.9
24	SAN FRANCISCO	8,963.7	7,048.0	78.6	76.8	80.5
25	INYO	199.0	156.0	78.4	66.1	90.7
26	MONTEREY	6,333.7	4,959.3	78.3	76.1	80.5
27	YUBA	1,190.3	932.0	78.3	73.3	83.3
	CALIFORNIA	483,965.3	377,250.7	77.9	77.7	78.2
	HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: MICH-10.2			77.6		
28	BUTTE	2,454.7	1,895.0	77.2	73.7	80.7
29	CONTRA COSTA	12,463.3	9,596.7	77.0	75.5	78.5
30	MENDOCINO	993.7	764.0	76.9	71.4	82.3
31	GLENN	387.7	296.7	76.5	67.8	85.2
32	TEHAMA	794.0	605.3	76.2	70.2	82.3
33	NEVADA	812.0	617.3	76.0	70.0	82.0
34	SISKIYOU	449.0	340.3	75.8	67.7	83.9
35	DEL NORTE	307.7	233.0	75.7	66.0	85.5
36	SANTA CLARA	23,311.3	17,630.0	75.6	74.5	76.7
37	HUMBOLDT	1,434.0	1,081.7	75.4	70.9	79.9
38	ALAMEDA	19,003.0	14,263.3	75.1	73.8	76.3
39	COLUSA	297.3	223.0	75.0	65.2	84.8
40	RIVERSIDE	30,244.3	22,667.7	74.9	74.0	75.9
41	SAN JOAQUIN	9,878.7	7,372.0	74.6	72.9	76.3
42	SAN DIEGO	43,655.3	32,390.0	74.2	73.4	75.0
43	KERN	12,543.7	9,005.0	71.8	70.3	73.3
44	SAN BERNARDINO	30,667.3	21,963.0	71.6	70.7	72.6
45	MADERA	2,270.0	1,593.7	70.2	66.8	73.7
46	STANISLAUS	6,871.3	4,796.3	69.8	67.8	71.8
47	SOLANO	5,182.7	3,589.0	69.3	67.0	71.5
48	TRINITY	105.7	72.3	68.5	53.6	86.2
49	LAKE	713.0	480.0	67.3	61.3	73.3
50	KINGS	2,280.3	1,505.0	66.0	62.7	69.3
51	MERCED	4,005.7	2,578.0	64.4	61.9	66.8
52	MARIPOSA	140.3	88.7	63.2	50.7	77.8
53	MODOC	83.0	49.3	59.4	44.0	78.5
54	LASSEN	287.3	168.3	58.6	49.7	67.4
55	PLUMAS	151.0	81.3	53.9	42.8	66.9
56	IMPERIAL	3,039.7	1,432.3	47.1	44.7	49.6
	ALPINE	#	#	#	#	#
	SIERRA	#	#	#	#	#

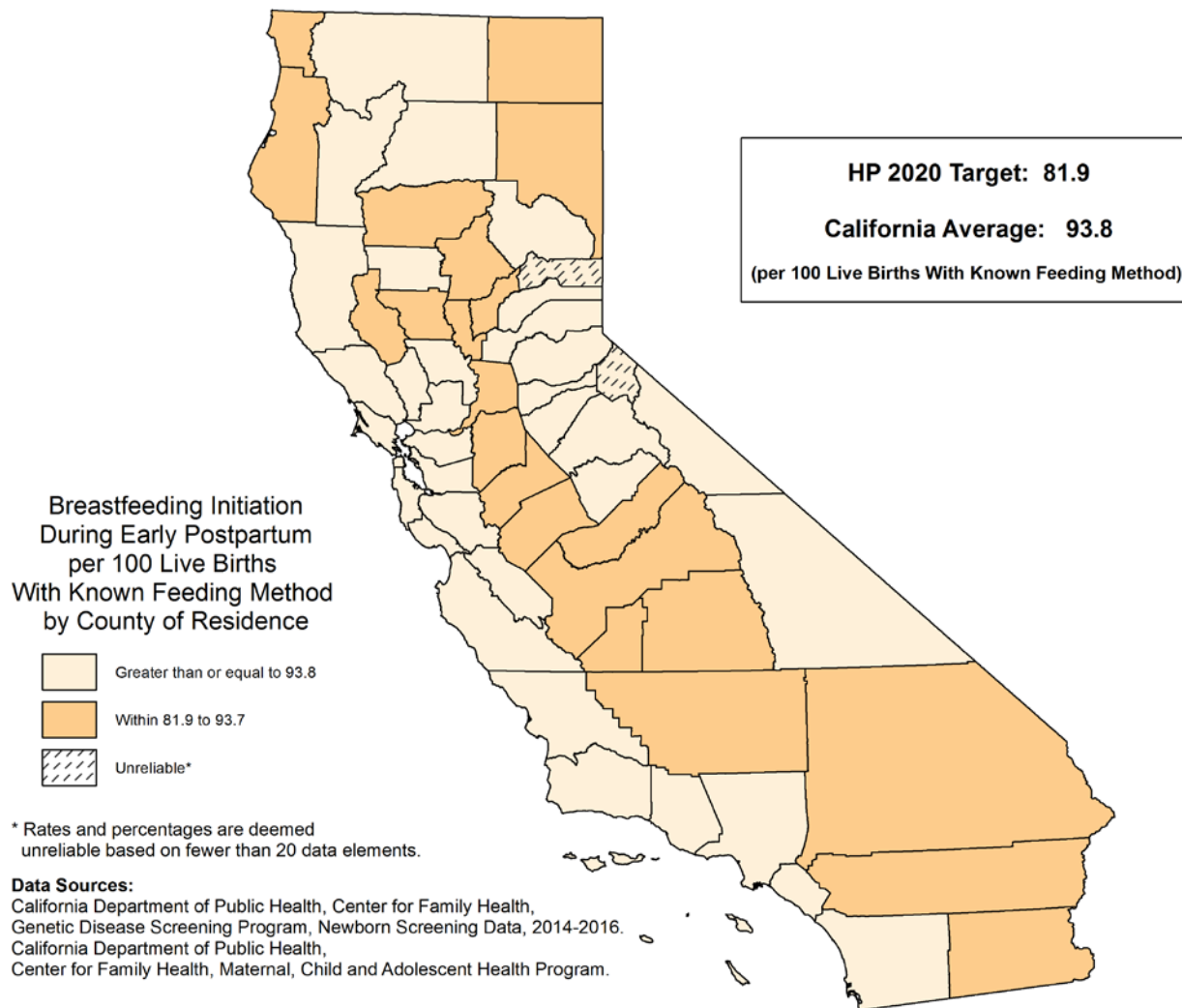
* Rates are deemed unreliable based on fewer than 20 data elements.

Results masked per Data De-Identification Guidelines. See technical notes for more information.

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: 2014-2016 Birth Records.

BREASTFEEDING INITIATION DURING EARLY POSTPARTUM, 2014-2016



The percentage of breastfed infants in California was 93.8 where the feeding method was known. The percentage for California was based on a 2014 through 2016 three-year average of 402,751.3 breastfed infants and 429,162.0 births with a known feeding method.

Among counties with reliable percentages, the percentage of breastfed infants ranged from 98.8 in Marin County to 87.7 in Fresno County, a factor of 1.1 to 1.

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

Two county's data was suppressed per the Data De-Identification Guidelines (DDG). For these counties the count of live births, breastfeeding count, percentage, as well as Lower/Upper Confidence Limits were masked with a ' # ' symbol. See technical notes for more information regarding DDG.

The percentage of breastfed infants in California where the feeding method was known for the 2011-2013 period was 92.3.

TABLE 28
BREASTFEEDING INITIATION DURING EARLY POSTPARTUM
RANKED BY THREE-YEAR AVERAGE BREASTFEEDING INITIATION PERCENTAGE
CALIFORNIA COUNTIES, 2014-2016

RANK ORDER	COUNTY OF RESIDENCE	TOTAL NUMBER	2014-2016 BIRTHS (AVERAGE) WITH KNOWN FEEDING METHOD			
			BREASTFED		95% CONFIDENCE LIMITS	
			NUMBER	PERCENT	LOWER	UPPER
1	MARIN	2,037.0	2,012.0	98.8	94.5	100.0
2	SANTA CRUZ	2,556.0	2,521.3	98.6	94.8	100.0
3	MONO	110.0	108.0	98.2	79.7	100.0
4	NEVADA	671.7	657.0	97.8	90.3	100.0
5	INYO	174.3	170.3	97.7	83.0	100.0
6	SONOMA	4,409.3	4,299.3	97.5	94.6	100.0
7	SAN LUIS OBISPO	2,266.0	2,208.0	97.4	93.4	100.0
8	ALAMEDA	17,121.3	16,671.0	97.4	95.9	98.8
9	SAN MATEO	8,181.7	7,959.0	97.3	95.1	99.4
10	SANTA CLARA	20,733.0	20,136.0	97.1	95.8	98.5
11	SAN FRANCISCO	7,978.7	7,743.0	97.0	94.9	99.2
12	NAPA	1,224.3	1,187.3	97.0	91.5	100.0
13	MONTEREY	5,475.7	5,300.0	96.8	94.2	99.4
14	CONTRA COSTA	10,987.7	10,625.7	96.7	94.9	98.5
15	YOLO	2,164.3	2,093.0	96.7	92.6	100.0
16	EL DORADO	1,368.7	1,323.3	96.7	91.5	100.0
17	PLUMAS	115.7	111.7	96.5	78.6	100.0
18	MENDOCINO	912.0	878.7	96.3	90.0	100.0
19	AMADOR	267.7	257.7	96.3	84.5	100.0
20	SAN DIEGO	33,796.0	32,493.0	96.1	95.1	97.2
21	VENTURA	8,886.0	8,540.3	96.1	94.1	98.1
22	PLACER	3,244.3	3,115.0	96.0	92.6	99.4
23	TUOLUMNE	386.7	371.0	95.9	86.2	100.0
24	SANTA BARBARA	4,989.3	4,779.7	95.8	93.1	98.5
25	CALAVERAS	309.7	295.7	95.5	84.6	100.0
26	MARIPOSA	130.0	124.0	95.4	78.6	100.0
27	SISKIYOU	312.3	297.3	95.2	84.4	100.0
28	TRINITY	101.0	96.0	95.0	77.0	100.0
29	ORANGE	34,524.0	32,786.0	95.0	93.9	96.0
30	SHASTA	1,786.3	1,695.0	94.9	90.4	99.4
31	SOLANO	4,210.3	3,991.7	94.8	91.9	97.7
32	SAN BENITO	627.7	592.7	94.4	86.8	100.0
33	GLENN	345.7	326.0	94.3	84.1	100.0
34	LOS ANGELES	111,137.3	104,287.0	93.8	93.3	94.4
35	TEHAMA	729.7	684.3	93.8	86.8	100.0
	CALIFORNIA	429,162.0	402,751.3	93.8	93.6	94.1
36	LASSEN	231.3	216.3	93.5	81.1	100.0
37	COLUSA	269.7	252.0	93.4	81.9	100.0
38	HUMBOLDT	1,295.0	1,207.7	93.3	88.0	98.5
39	IMPERIAL	2,637.0	2,454.7	93.1	89.4	96.8
40	LAKE	614.7	568.7	92.5	84.9	100.0
41	SUTTER	1,129.3	1,044.3	92.5	86.9	98.1
42	RIVERSIDE	26,442.3	24,452.0	92.5	91.3	93.6
43	SACRAMENTO	17,141.0	15,845.3	92.4	91.0	93.9
44	BUTTE	2,185.3	2,015.0	92.2	88.2	96.2
45	MERCED	3,637.7	3,347.0	92.0	88.9	95.1
46	MODOC	27.7	25.3	91.6	59.4	100.0
47	MADERA	2,009.7	1,827.0	90.9	86.7	95.1
48	YUBA	1,022.7	921.0	90.1	84.2	95.9
49	DEL NORTE	259.3	233.0	89.8	78.3	100.0
50	KERN	12,005.3	10,741.0	89.5	87.8	91.2
51	TULARE	6,329.0	5,655.7	89.4	87.0	91.7
52	SAN BERNARDINO	26,598.3	23,740.3	89.3	88.1	90.4
53	SAN JOAQUIN	8,609.7	7,679.3	89.2	87.2	91.2
54	STANISLAUS	6,813.3	6,075.0	89.2	86.9	91.4
55	KINGS	1,965.3	1,725.7	87.8	83.7	91.9
56	FRESNO	13,650.0	11,971.3	87.7	86.1	89.3
	ALPINE	#	#	#	#	#
	SIERRA	#	#	#	#	#
HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE: MICH-21.1				81.9		

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

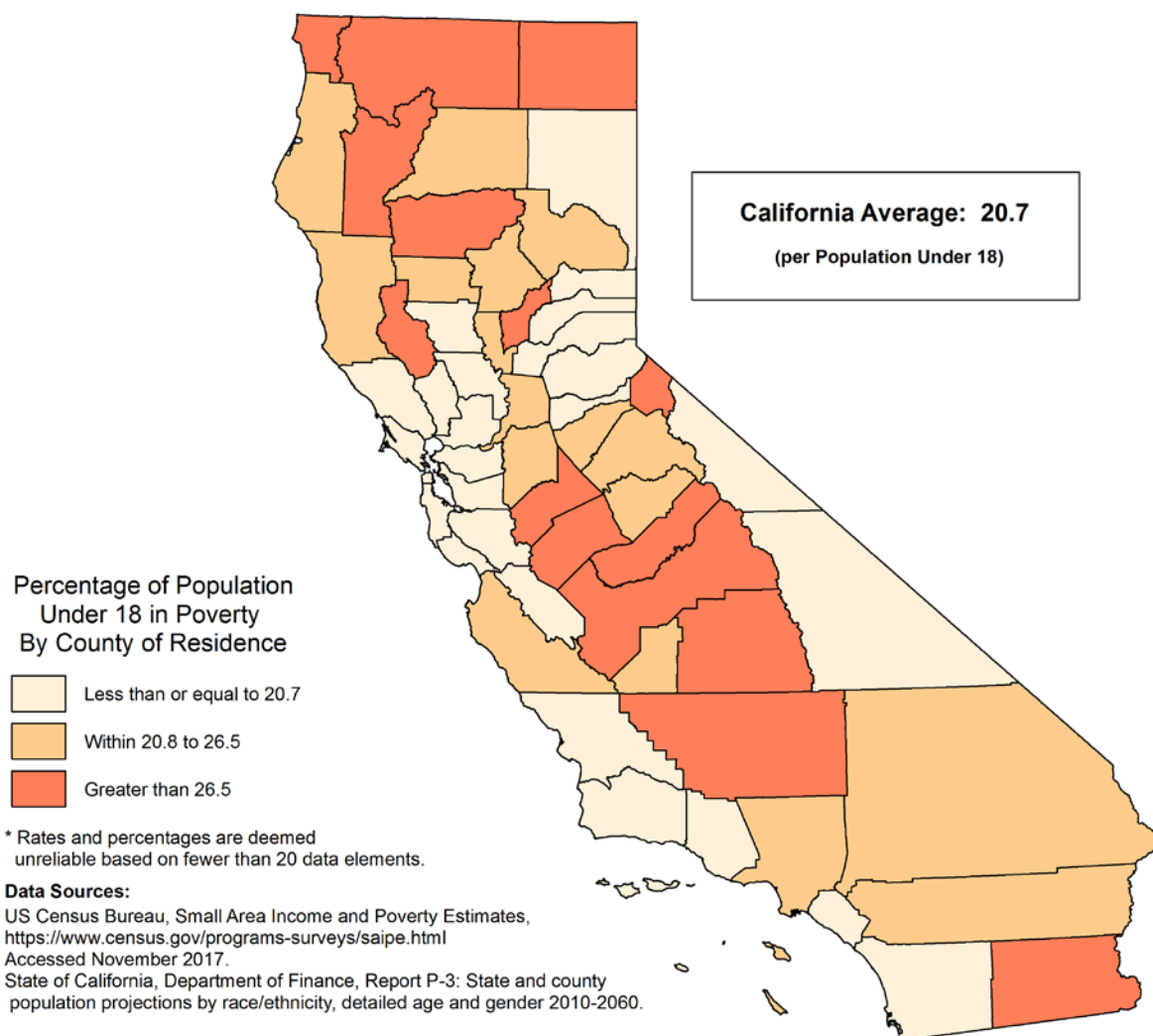
Results masked per Data De-Identification Guidelines. See technical notes for more information.

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

Source: California Department of Public Health, Center for Family Health, Genetic Disease Screening Program, Newborn Screening Data, 2014-2016.

California Department of Public Health, Center for Family Health, Maternal, Child and Adolescent Health Program.

PERSONS UNDER 18 IN POVERTY, 2015



Californians under 18 years of age in poverty represent 20.7 percent of the population of persons under 18 years of age. The percentage for California was based on the U.S. Census Bureau, American Community Survey 2015 estimate of persons under 18 years of age in poverty of 1,901,985 and a corresponding population count of 9,204,564 as of July 1, 2015.

All fifty-eight counties demonstrated reliable crude rates for persons under 18 years of age in poverty. The percentages ranged from 35.9 in Fresno County and Tulare County to 8.7 in Santa Clara County, a factor of 4.1 to 1.

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

The California percentage of persons under 18 years of age in poverty in 2014 was 22.1.

TABLE 29
PERSONS UNDER 18 IN POVERTY
RANKED BY PERCENTAGE OF CENSUS POPULATION UNDER 18 BELOW POVERTY
CALIFORNIA COUNTIES, 2015

RANK ORDER	COUNTY OF RESIDENCE	2015 POPULATION UNDER 18	IN POVERTY UNDER 18		95% CONFIDENCE LIMITS	
			NUMBER	PERCENT	LOWER	UPPER
HEALTHY PEOPLE 2020 NATIONAL OBJECTIVE:			NOT APPLICABLE			
1	SANTA CLARA	442,255	38,654	8.7	8.7	8.8
2	MARIN	52,796	4,670	8.8	8.6	9.1
3	SAN MATEO	161,548	15,516	9.6	9.5	9.8
4	PLACER	78,707	7,593	9.6	9.4	9.9
5	EL DORADO	37,127	4,337	11.7	11.3	12.0
6	NAPA	30,174	3,659	12.1	11.7	12.5
7	SAN FRANCISCO	121,514	15,281	12.6	12.4	12.8
8	CONTRA COSTA	252,327	32,930	13.1	12.9	13.2
9	ALAMEDA	344,053	47,108	13.7	13.6	13.8
10	SONOMA	99,911	14,009	14.0	13.8	14.3
11	VENTURA	201,282	28,461	14.1	14.0	14.3
12	SAN LUIS OBISPO	49,981	7,270	14.5	14.2	14.9
13	SAN BENITO	14,800	2,160	14.6	14.0	15.2
14	SOLANO	100,373	15,532	15.5	15.2	15.7
15	YOLO	47,469	7,598	16.0	15.6	16.4
16	MONO	2,862	459	16.0	14.6	17.5
17	SANTA CRUZ	57,881	9,361	16.2	15.8	16.5
18	ORANGE	728,580	118,384	16.2	16.2	16.3
19	SAN DIEGO	772,594	127,566	16.5	16.4	16.6
20	NEVADA	16,697	2,808	16.8	16.2	17.4
21	SIERRA	469	79	16.8	13.3	21.0
22	COLUSA	6,137	1,142	18.6	17.5	19.7
23	AMADOR	5,814	1,084	18.6	17.5	19.8
24	LASSEN	5,429	1,017	18.7	17.6	19.9
25	INYO	3,865	745	19.3	17.9	20.7
26	SANTA BARBARA	100,349	19,425	19.4	19.1	19.6
	CALIFORNIA	9,204,564	1,901,985	20.7	20.6	20.7
27	CALAVERAS	7,567	1,598	21.1	20.1	22.2
28	TUOLUMNE	8,920	1,901	21.3	20.4	22.3
29	PLUMAS	3,236	696	21.5	19.9	23.1
30	HUMBOLDT	27,497	5,974	21.7	21.2	22.3
31	MONTEREY	113,520	24,992	22.0	21.7	22.3
32	SACRAMENTO	360,331	81,107	22.5	22.4	22.7
33	LOS ANGELES	2,319,368	527,528	22.7	22.7	22.8
34	RIVERSIDE	599,727	136,534	22.8	22.6	22.9
35	BUTTE	45,626	10,594	23.2	22.8	23.7
36	MARIPOSA	2,918	682	23.4	21.6	25.1
37	SAN JOAQUIN	198,377	46,774	23.6	23.4	23.8
38	SUTTER	25,208	6,074	24.1	23.5	24.7
39	GLENN	7,599	1,905	25.1	23.9	26.2
40	KINGS	45,340	11,665	25.7	25.3	26.2
41	SHASTA	37,929	9,970	26.3	25.8	26.8
42	MENDOCINO	19,113	5,052	26.4	25.7	27.2
43	SAN BERNARDINO	579,387	153,534	26.5	26.4	26.6
44	STANISLAUS	144,320	38,323	26.6	26.3	26.8
45	MODOC	1,828	526	28.8	26.3	31.2
46	LAKE	13,497	3,906	28.9	28.0	29.8
47	IMPERIAL	53,999	15,925	29.5	29.0	29.9
48	YUBA	21,542	6,437	29.9	29.2	30.6
49	TEHAMA	15,464	4,752	30.7	29.9	31.6
50	SISKIYOU	8,777	2,718	31.0	29.8	32.1
51	KERN	254,777	79,558	31.2	31.0	31.4
52	TRINITY	2,195	687	31.3	29.0	33.6
53	MADERA	42,496	13,519	31.8	31.3	32.3
54	DEL NORTE	5,776	1,876	32.5	31.0	33.9
55	ALPINE	217	75	34.6	27.2	43.3
56	MERCED	79,613	28,377	35.6	35.2	36.1
57	FRESNO	279,388	100,198	35.9	35.6	36.1
58	TULARE	144,018	51,680	35.9	35.6	36.2

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: US Census Bureau, Small Area Income and Poverty Estimates. www.census.gov/data/datasets/2015/demo/saie/2015-state-and-county.html. 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, June 2017.

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	
	2011-2013	2014-2016	2011-2013	2014-2016	2011-2013	2014-2016
CALIFORNIA	149.0	140.2	13.7	12.8	33.0	28.9
ALAMEDA	143.9	134.5	13.2	12.1	31.8	28.2
ALPINE	109.6 *	108.9 *	-	-	30.0 *	35.3 *
AMADOR	163.7	149.6	12.3 *	14.4 *	49.7	40.3
BUTTE	178.1	162.2	13.3	15.7	45.3	37.7
CALAVERAS	162.3	145.1	12.4 *	14.7 *	40.0	36.7
COLUSA	151.0	128.9	8.8 *	12.5 *	41.0 *	29.0 *
CONTRA COSTA	150.7	138.9	14.7	12.9	35.9	29.2
DEL NORTE	163.2	157.9	13.6 *	12.5 *	50.4 *	37.5 *
EL DORADO	144.5	144.7	10.5	14.2	30.6	33.2
FRESNO	151.3	141.9	13.4	12.1	35.6	30.2
GLENN	161.3	168.7	11.5 *	10.7 *	42.2 *	52.7 *
HUMBOLDT	174.9	164.9	15.5	11.0 *	39.6	39.1
IMPERIAL	124.1	120.1	11.1 *	9.9 *	24.3	22.3
INYO	119.1	152.9	16.0 *	8.7 *	32.7 *	36.7 *
KERN	156.0	153.4	12.9	12.5	41.0	33.7
KINGS	149.2	152.2	13.6 *	14.7 *	35.2	33.4
LAKE	195.1	192.7	15.0 *	15.5 *	53.1	46.5
LASSEN	109.7	108.9	8.3 *	13.8 *	33.8 *	25.6 *
LOS ANGELES	144.1	134.8	14.2	13.1	29.3	25.7
MADERA	141.8	140.6	14.1	12.7	34.4	30.9
MARIN	132.5	116.0	10.0	9.9	27.8	21.1
MARIPOSA	150.8	133.1	12.7 *	14.7 *	36.5 *	31.2 *
MENDOCINO	164.4	159.9	12.4 *	15.1 *	41.4	35.8
MERCED	164.2	158.6	16.5	14.5	39.3	35.1
MODOC	148.7	155.5	18.5 *	9.7 *	21.1 *	24.2 *
MONO	87.7 *	157.8 *	5.1 *	18.5 *	17.6 *	12.9 *
MONTEREY	139.6	126.7	10.5	10.2	29.1	23.4
NAPA	161.8	155.6	10.8 *	12.1	38.1	32.0
NEVADA	153.6	131.7	12.8 *	10.5 *	33.0	27.8
ORANGE	140.6	131.0	12.0	11.1	31.1	26.4
PLACER	147.7	144.9	11.1	11.1	31.3	28.1
PLUMAS	132.4	141.7	8.1 *	15.1 *	24.1 *	37.2 *
RIVERSIDE	150.1	146.2	14.4	14.1	35.0	31.7
SACRAMENTO	169.0	160.2	16.2	14.1	41.1	36.5
SAN BENITO	145.1	113.0	12.5 *	8.3 *	24.7 *	28.2 *
SAN BERNARDINO	165.3	157.6	16.8	16.4	37.5	32.3
SAN DIEGO	154.2	142.8	13.8	13.0	34.8	28.5
SAN FRANCISCO	141.1	128.8	13.8	12.8	32.6	27.4
SAN JOAQUIN	172.3	162.6	15.6	15.2	43.4	35.9
SAN LUIS OBISPO	140.9	135.5	13.4	11.4	31.8	28.7
SAN MATEO	134.1	120.3	11.3	11.0	28.1	24.3
SANTA BARBARA	142.8	136.7	13.2	9.3	26.4	25.9
SANTA CLARA	130.7	120.2	11.3	10.5	26.5	25.1
SANTA CRUZ	143.0	130.9	12.9	10.1	26.4	24.1
SHASTA	177.6	191.3	18.0	15.4	42.9	48.1
SIERRA	103.3 *	103.6 *	-	5.6 *	27.6 *	15.7 *
SISKIYOU	179.4	161.7	13.8 *	13.0 *	43.3	37.0
SOLANO	172.9	162.8	15.4	14.1	43.1	34.5
SONOMA	155.3	142.3	14.2	13.0	34.5	30.4
STANISLAUS	167.7	171.5	17.1	16.3	41.2	36.5
SUTTER	149.8	163.8	9.9 *	8.3 *	43.9	42.5
TEHAMA	190.2	149.4	18.9 *	11.6 *	53.3	39.2
TRINITY	177.7	131.6	15.2 *	8.5 *	44.0 *	40.8 *
TULARE	150.8	138.4	12.2	13.6	37.0	31.5
TUOLUMNE	157.1	145.2	17.3 *	8.4 *	32.6	32.8
VENTURA	140.8	143.3	13.4	12.7	28.2	27.3
YOLO	159.4	141.5	13.9	10.5	32.6	31.0
YUBA	173.0	195.0	13.9 *	17.3 *	51.3	51.0

- 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)					
	FEMALE BREAST CANCER		PROSTATE CANCER		DIABETES	
	2011-2013	2014-2016	2011-2013	2014-2016	2011-2013	2014-2016
CALIFORNIA	20.5	19.1	19.8	19.6	20.5	20.7
ALAMEDA	20.5	17.8	19.8	17.2	20.7	19.9
ALPINE	-	51.7 *	-	23.6 *	-	-
AMADOR	26.5 *	20.6 *	21.6 *	13.7 *	7.3 *	7.1 *
BUTTE	19.4	21.2	24.7	19.4	17.5	18.9
CALAVERAS	18.3 *	16.7 *	19.1 *	15.6 *	13.9 *	12.8 *
COLUSA	25.6 *	7.4 *	17.4 *	13.6 *	14.0 *	15.8 *
CONTRA COSTA	21.8	19.0	19.3	20.1	16.3	17.6
DEL NORTE	8.8 *	17.9 *	28.3 *	25.8 *	17.0 *	19.7 *
EL DORADO	17.8	19.5	19.5 *	20.0	10.4	11.1
FRESNO	20.1	18.9	19.3	16.0	29.2	26.4
GLENN	20.4 *	16.9 *	9.4 *	22.0 *	32.1 *	24.1 *
HUMBOLDT	27.3	18.5 *	26.2 *	26.9 *	26.6	21.8
IMPERIAL	16.9 *	12.4 *	22.4 *	18.4 *	29.4	33.6
INYO	17.8 *	12.1 *	10.2 *	15.4 *	11.5 *	24.1 *
KERN	20.7	21.7	22.8	21.2	35.2	36.1
KINGS	18.7 *	18.2 *	22.7 *	24.6 *	32.3	24.7
LAKE	19.9 *	29.5 *	23.2 *	26.4 *	18.6 *	14.6 *
LASSEN	7.4 *	9.5 *	9.8 *	13.8 *	18.2 *	19.8 *
LOS ANGELES	21.0	19.1	18.8	19.5	22.7	22.3
MADERA	17.9 *	18.1 *	16.9 *	18.2 *	16.5	20.8
MARIN	17.9	17.3	15.5	17.8	8.7	7.5
MARIPOSA	20.5 *	16.3 *	17.1 *	20.4 *	14.5 *	13.5 *
MENDOCINO	23.7 *	18.9 *	18.7 *	29.2 *	15.6 *	17.3
MERCED	21.1	20.4	19.4 *	25.0	28.2	30.4
MODOC	41.3 *	18.4 *	14.8 *	25.9 *	23.7 *	25.2 *
MONO	22.9 *	-	-	60.9 *	26.1 *	21.2 *
MONTEREY	18.8	16.8	19.4	18.2	18.9	19.6
NAPA	15.8 *	19.0 *	24.2 *	27.4	11.3	16.9
NEVADA	18.1 *	25.8	24.8 *	20.0 *	9.1 *	10.7 *
ORANGE	18.2	18.7	18.7	17.6	14.8	13.5
PLACER	22.3	18.3	20.1	22.0	13.8	15.6
PLUMAS	19.5 *	14.0 *	12.1 *	13.7 *	11.8 *	10.4 *
RIVERSIDE	21.0	21.3	20.7	19.9	19.0	19.3
SACRAMENTO	22.2	20.4	21.5	19.5	22.9	25.3
SAN BENITO	18.2 *	12.8 *	33.3 *	11.5 *	15.7 *	24.2 *
SAN BERNARDINO	23.5	22.5	23.6	26.7	33.2	33.2
SAN DIEGO	20.9	19.4	21.7	21.7	19.2	19.3
SAN FRANCISCO	18.3	14.4	14.1	13.8	11.5	13.3
SAN JOAQUIN	21.8	24.2	20.8	26.8	29.2	25.4
SAN LUIS OBISPO	21.5	21.3	19.9	17.5	13.1	12.9
SAN MATEO	18.8	15.8	17.2	15.1	11.9	12.8
SANTA BARBARA	20.5	18.7	24.1	17.6	14.5	17.2
SANTA CLARA	17.1	15.6	17.1	15.0	21.9	21.4
SANTA CRUZ	21.8	18.7	19.9	19.8	13.4	15.9
SHASTA	20.0	23.0	25.7	21.4	17.2	21.7
SIERRA	-	33.8 *	54.6 *	17.2 *	-	31.7 *
SISKIYOU	32.5 *	20.5 *	31.3 *	28.2 *	19.7 *	23.2 *
SOLANO	20.5	22.8	23.1	25.1	24.6	29.0
SONOMA	23.0	18.0	17.9	19.7	17.7	16.9
STANISLAUS	20.4	19.9	22.1	25.6	21.4	26.0
SUTTER	15.7 *	19.5 *	17.4 *	14.8 *	21.4	18.9
TEHAMA	17.2 *	18.3 *	20.6 *	23.4 *	21.6 *	19.4 *
TRINITY	19.1 *	8.1 *	17.3 *	10.7 *	12.4 *	7.6 *
TULARE	21.1	18.5	20.4	19.4	25.7	26.5
TUOLUMNE	19.1 *	17.2 *	14.4 *	16.3 *	16.2 *	12.9 *
VENTURA	21.1	17.0	19.6	19.9	16.4	18.8
YOLO	17.7 *	17.9 *	21.3 *	21.4 *	23.7	25.4
YUBA	22.6 *	25.2 *	30.4 *	28.4 *	20.9 *	22.6 *

- 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)	
	2011-2013	2014-2016	2011-2013	2014-2016	2011-2013	2014-2016
CALIFORNIA	30.4	34.2	102.4	89.1	35.4	35.3
ALAMEDA	26.9	32.0	76.9	64.0	37.1	36.7
ALPINE	-	-	24.5 *	110.0 *	12.3 *	25.7 *
AMADOR	33.0	43.5	96.7	85.5	30.4	33.8
BUTTE	40.8	51.1	102.6	85.8	43.6	39.3
CALAVERAS	16.5 *	19.7 *	100.0	89.8	28.8	27.0
COLUSA	17.2 *	19.2 *	103.3	94.3	33.5 *	29.4 *
CONTRA COSTA	32.7	37.2	73.2	61.0	36.6	43.4
DEL NORTE	20.1 *	6.8 *	104.8	95.7	39.6 *	35.6 *
EL DORADO	27.4	29.3	83.8	83.3	23.3	27.0
FRESNO	33.6	37.6	113.6	108.1	45.9	44.7
GLENN	24.6 *	35.4 *	97.5	81.2	37.8 *	46.7 *
HUMBOLDT	29.1	25.9	104.8	106.9	55.8	65.6
IMPERIAL	11.6 *	7.7 *	111.5	86.9	34.9	28.5
INYO	4.0 *	4.5 *	71.6	73.3	36.4 *	33.1 *
KERN	37.6	51.5	136.2	132.6	38.2	36.8
KINGS	39.9	40.3	109.8	91.6	35.0	34.1
LAKE	30.4	27.2	131.6	115.7	48.4	40.8
LASSEN	16.4 *	11.6 *	78.9	97.1	21.8 *	20.5 *
LOS ANGELES	25.4	32.9	120.8	103.9	34.2	33.2
MADERA	42.7	41.5	139.4	91.7	45.5	41.1
MARIN	37.4	39.6	63.0	52.1	27.7	24.4
MARIPOSA	20.2 *	21.1 *	109.9	107.2	28.6 *	26.0 *
MENDOCINO	19.1	12.6 *	101.4	90.5	35.1	36.7
MERCED	27.5	26.2	118.2	117.0	41.7	43.4
MODOC	6.9 *	6.5 *	117.6 *	74.1 *	37.0 *	40.3 *
MONO	11.2 *	9.4 *	83.9 *	170.1 *	48.6 *	40.9 *
MONTEREY	19.9	26.3	76.3	56.9	38.5	32.5
NAPA	31.3	30.3	86.6	81.5	39.7	32.4
NEVADA	38.8	32.4	94.8	79.4	30.2	32.9
ORANGE	35.8	37.5	96.9	80.4	34.1	34.9
PLACER	33.6	37.1	93.4	72.5	29.6	33.8
PLUMAS	17.9 *	20.5 *	92.2	73.4	27.8 *	31.0 *
RIVERSIDE	30.0	36.2	120.4	104.6	34.5	34.2
SACRAMENTO	27.4	37.3	107.9	103.2	39.9	41.7
SAN BENITO	10.2 *	11.5 *	69.5	56.4	41.4	32.3 *
SAN BERNARDINO	30.4	40.0	122.1	106.5	38.5	40.5
SAN DIEGO	36.6	37.8	94.0	81.2	32.1	34.3
SAN FRANCISCO	26.3	27.1	64.6	55.1	33.4	28.8
SAN JOAQUIN	45.3	59.3	109.5	101.4	46.3	48.1
SAN LUIS OBISPO	18.7	34.9	75.9	64.5	56.1	47.4
SAN MATEO	29.7	29.1	71.3	55.4	27.6	27.1
SANTA BARBARA	30.1	36.7	91.1	76.6	37.3	32.2
SANTA CLARA	30.3	5.4	70.5	58.2	24.8	26.6
SANTA CRUZ	37.3	33.8	80.8	65.7	30.6	29.1
SHASTA	41.9	52.1	119.1	121.9	47.1	41.4
SIERRA	13.5 *	22.2 *	101.5 *	79.5 *	18.4 *	35.9 *
SISKIYOU	21.1 *	35.8	97.1	90.0	40.8	35.2
SOLANO	45.1	42.6	78.4	65.2	35.6	43.5
SONOMA	39.2	40.3	86.6	75.9	35.3	33.8
STANISLAUS	40.3	45.8	150.2	135.6	44.3	42.1
SUTTER	25.5	20.8	118.4	125.8	40.8	49.2
TEHAMA	31.5	29.2	102.8	99.9	50.4	37.8
TRINITY	26.9 *	29.1 *	95.0	94.5	25.8 *	32.2 *
TULARE	22.9	28.5	134.3	120.5	46.4	40.9
TUOLUMNE	14.3 *	10.7 *	99.8	100.7	34.1	37.5
VENTURA	29.7	39.9	83.9	80.7	34.4	35.7
YOLO	39.4	44.0	75.5	73.2	35.0	37.2
YUBA	21.5 *	25.6 *	149.0	128.9	51.9	57.5

- 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	
	2011-2013	2014-2016	2011-2013	2014-2016	2011-2013	2014-2016
CALIFORNIA	16.1	14.3	35.4	32.1	11.6	12.2
ALAMEDA	13.7	12.6	28.8	25.4	9.6	8.6
ALPINE	-	-	-	22.6 *	-	92.0 *
AMADOR	26.0 *	17.3 *	40.9	39.0	13.2 *	13.5 *
BUTTE	15.5	14.9	55.1	45.8	15.0	18.4
CALAVERAS	14.7 *	14.3 *	42.2	38.4	11.6 *	8.9 *
COLUSA	8.3 *	9.2 *	44.7 *	38.9 *	13.0 *	11.9 *
CONTRA COSTA	10.8	10.0	33.4	29.0	8.8	8.6
DEL NORTE	23.0 *	16.5 *	46.2 *	73.7	13.2 *	20.3 *
EL DORADO	11.9	12.9	38.4	35.8	12.2	15.0
FRESNO	21.3	18.6	36.0	33.8	14.9	16.4
GLENN	21.6 *	14.4 *	54.6 *	49.1 *	9.0 *	15.0 *
HUMBOLDT	8.0 *	9.7 *	54.5	45.4	19.8	20.3
IMPERIAL	12.5	24.9	19.7	21.4	14.5	16.6
INYO	7.3 *	5.7 *	51.2 *	40.9 *	11.6 *	11.7 *
KERN	16.6	14.4	60.3 *	55.0 *	12.7	15.3
KINGS	19.7	17.4	43.7	41.0	14.6 *	17.6
LAKE	20.9 *	19.6 *	71.0	58.0	21.5	28.0
LASSEN	12.4 *	15.9 *	28.7 *	38.0 *	8.0 *	9.0 *
LOS ANGELES	22.1	19.6	30.8	28.2	12.5	13.1
MADERA	17.0	13.7	42.4	37.3	15.3	20.7
MARIN	10.5	10.3	22.0	18.8	6.0	5.8
MARIPOSA	12.1 *	4.9 *	33.0 *	41.1 *	9.1 *	16.8 *
MENDOCINO	15.0 *	13.7 *	49.1	40.2	14.6 *	12.9 *
MERCED	14.7	17.9	46.6	42.3	16.3	14.9
MODOC	12.4 *	17.8 *	58.2 *	78.7 *	8.9 *	22.5 *
MONO	4.9 *	25.0 *	19.7 *	36.1 *	4.7 *	12.4 *
MONTEREY	12.7	11.4	27.3	26.8	10.3	10.5
NAPA	13.9	12.8	33.3	27.7	10.8 *	11.0 *
NEVADA	14.6	12.5	43.0	38.9	9.0 *	11.5 *
ORANGE	17.5	14.9	30.6	26.5	9.5	10.4
PLACER	11.8	9.4	35.6	32.7	9.4	12.7
PLUMAS	9.9 *	12.9 *	40.7 *	47.3 *	8.1 *	21.0 *
RIVERSIDE	12.3	10.6	45.3	41.1	12.4	13.0
SACRAMENTO	17.4	15.2	41.3	39.5	11.3	11.7
SAN BENITO	19.8 *	18.7 *	30.4 *	29.9 *	11.2 *	7.3 *
SAN BERNARDINO	14.2	13.2	55.4	52.1	13.9	15.5
SAN DIEGO	9.6	9.3	33.4	28.8	10.1	10.6
SAN FRANCISCO	13.7	10.5	20.3	18.0	7.7	9.3
SAN JOAQUIN	18.3	17.8	44.9	49.1	17.0	16.6
SAN LUIS OBISPO	10.6	8.0	35.2	32.4	13.0	13.7
SAN MATEO	15.7	10.6	23.9	21.2	9.2	8.2
SANTA BARBARA	12.8	9.8	25.5	27.9	11.3	12.6
SANTA CLARA	12.9	9.5	23.5	19.5	8.9	8.1
SANTA CRUZ	14.0	11.4	28.9	24.4	13.0	12.6
SHASTA	12.3	14.9	73.0	66.9	18.1	19.5
SIERRA	23.3 *	4.2 *	53.1 *	39.8 *	17.8 *	17.5 *
SISKIYOU	7.2 *	19.1 *	60.7	62.9	17.9 *	19.9 *
SOLANO	18.3	16.9	40.7	37.2	9.8	11.4
SONOMA	8.4	9.6	37.2	28.8	11.7	10.6
STANISLAUS	17.0	18.7	50.0	48.4	13.9	15.2
SUTTER	16.2 *	16.0 *	51.2	46.5	14.6 *	15.0 *
TEHAMA	12.9 *	13.3 *	70.4	64.5	21.3 *	19.3 *
TRINITY	10.0 *	10.5 *	44.0 *	46.7 *	23.1 *	26.2 *
TULARE	22.9	22.6	48.2	39.8	17.3	18.4
TUOLUMNE	13.6 *	15.3 *	40.1	48.9	14.7 *	20.2 *
VENTURA	10.2	9.0	31.8	30.7	10.1	10.4
YOLO	18.7	12.4	49.7	43.5	14.7	14.5
YUBA	27.6 *	16.0 *	75.5	72.9	14.2 *	14.7 *

- Rates and percentages are not calculated for zero events.

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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	
	2011-2013	2014-2016	2011-2013	2014-2016	2011-2013	2014-2016
CALIFORNIA	27.7	30.3	7.6	8.8	10.1	10.4
ALAMEDA	23.2	24.9	4.8	5.4	8.5	9.0
ALPINE	40.2 *	35.9 *	-	-	-	-
AMADOR	39.4 *	53.8	10.2 *	16.7 *	23.4 *	27.9 *
BUTTE	60.9	63.2	10.6	13.0	16.9	18.1
CALAVERAS	40.5	52.9	19.8 *	27.8 *	25.3 *	24.7 *
COLUSA	48.9 *	47.5 *	22.2 *	19.9 *	23.1 *	18.0 *
CONTRA COSTA	25.2	26.1	5.3	7.0	10.1	10.0
DEL NORTE	69.5	63.6 *	26.6 *	23.1 *	21.0 *	19.7 *
EL DORADO	40.6	46.8	10.8 *	10.1 *	16.2	17.4
FRESNO	36.7	43.8	12.8	14.7	9.7	11.1
GLENN	52.4 *	61.2 *	12.5 *	17.2 *	5.8 *	23.9 *
HUMBOLDT	71.4	69.2	20.2	18.7	24.1	25.6
IMPERIAL	36.1	42.5	10.5 *	11.4	7.7 *	8.1 *
INYO	33.0 *	59.5 *	5.2 *	10.7 *	19.3 *	14.0 *
KERN	43.1	54.0	13.0	15.7	12.7	14.2
KINGS	39.3	38.6	13.5	13.2 *	9.3 *	10.7 *
LAKE	86.8	88.5	25.8 *	22.8 *	25.7 *	25.9 *
LASSEN	47.6 *	55.8 *	12.3 *	14.1 *	20.6 *	23.9 *
LOS ANGELES	20.1	22.2	6.5	7.4	7.5	7.8
MADERA	41.3	45.8	15.0	17.1	17.3	9.6 *
MARIN	28.9	27.2	3.5 *	5.5 *	12.5	12.2
MARIPOSA	47.3 *	68.9 *	15.9 *	34.3 *	27.9 *	36.7 *
MENDOCINO	50.2	61.6	15.5 *	15.3 *	21.2 *	21.9 *
MERCED	46.4	51.8	16.3	19.3	11.0	11.9
MODOC	76.9 *	47.9 *	29.9 *	7.7 *	25.2 *	16.8 *
MONO	28.2 *	71.2 *	13.3 *	22.0 *	16.8 *	4.7 *
MONTEREY	31.7	30.3	8.0	9.4	8.0	10.2
NAPA	30.6	31.4	9.3 *	5.9 *	12.8 *	9.5 *
NEVADA	48.4	45.4	15.3 *	10.0 *	20.6	20.1
ORANGE	21.9	24.5	5.4	6.2	9.6	9.6
PLACER	28.4	31.8	7.2	8.1	11.7	12.1
PLUMAS	50.5 *	78.6 *	8.2 *	20.3 *	22.6 *	23.7 *
RIVERSIDE	31.4	35.7	9.6	11.4	10.8	10.8
SACRAMENTO	31.8	37.4	8.4	9.5	12.9	13.1
SAN BENITO	37.4	46.3	15.0 *	19.9 *	7.2 *	7.4 *
SAN BERNARDINO	25.0	27.5	10.3	12.8	10.3	10.4
SAN DIEGO	30.7	31.2	6.2	6.8	12.5	12.2
SAN FRANCISCO	28.8	33.4	2.7	4.3	9.1	9.8
SAN JOAQUIN	39.1	42.5	10.2	14.1	11.4	10.4
SAN LUIS OBISPO	34.5	36.0	7.9	10.6	15.8	17.2
SAN MATEO	21.4	20.9	5.5	5.0	7.7	7.4
SANTA BARBARA	25.4	32.4	6.7	6.7	10.2	13.0
SANTA CLARA	22.6	24.0	5.1	6.8	8.1	7.6
SANTA CRUZ	33.7	42.4	6.2 *	8.7	13.9	16.3
SHASTA	63.8	54.0	14.0	15.1	21.4	23.8
SIERRA	21.8 *	29.6 *	-	10.5 *	8.7 *	42.9 *
SISKIYOU	67.5	70.6	20.9 *	16.2 *	25.8 *	26.4 *
SOLANO	29.4	36.1	8.5	11.1	11.3	12.8
SONOMA	24.4	34.1	4.7	8.0	11.0	13.4
STANISLAUS	38.4	42.3	13.1	14.0	11.0	10.8
SUTTER	40.4	33.9	11.8 *	14.5 *	11.3 *	18.4 *
TEHAMA	64.9	46.6	17.2 *	18.3 *	22.7 *	18.5 *
TRINITY	76.6 *	99.5 *	22.3 *	46.1 *	21.2 *	26.3 *
TULARE	32.6	39.0	12.1	17.9	10.7	10.4
TUOLUMNE	50.1	60.8	15.5 *	9.2 *	15.3 *	18.8 *
VENTURA	30.8	30.8	7.5	7.5	11.5	10.9
YOLO	34.7	37.3	10.4	10.7	8.1 *	12.0
YUBA	59.7	54.0	12.0 *	13.9 *	14.3 *	18.1 *

- 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)					
	HOMICIDE		FIREARM-RELATED DEATHS		DRUG-INDUCED DEATHS	
	2011-2013	2014-2016	2011-2013	2014-2016	2011-2013	2014-2016
CALIFORNIA	5.1	5.0	7.7	7.6	11.1	12.2
ALAMEDA	7.9	6.8	9.6	8.1	9.7	10.4
ALPINE	-	47.6 *	-	47.6 *	-	-
AMADOR	4.2 *	8.2 *	9.4 *	15.6 *	19.1 *	24.3 *
BUTTE	4.4 *	3.4 *	12.1	11.2	33.1	30.2
CALAVERAS	5.0 *	5.5 *	20.1 *	17.7 *	27.7 *	18.7 *
COLUSA	5.1 *	-	15.6 *	12.6 *	10.0 *	14.6 *
CONTRA COSTA	6.7	6.6	9.8	9.7	11.6	11.0
DEL NORTE	5.4 *	8.2 *	19.6 *	17.0 *	12.6 *	16.4 *
EL DORADO	3.4 *	1.6 *	10.0 *	10.9	17.6	23.6
FRESNO	7.8	6.9	10.0	9.2	10.0	15.9
GLENN	2.7 *	6.9 *	6.8 *	15.6 *	17.5 *	18.0 *
HUMBOLDT	4.7 *	10.0 *	11.7 *	20.5	36.7	37.4
IMPERIAL	2.6 *	2.1 *	5.5 *	3.1 *	14.4	20.4
INYO	-	1.0 *	8.7 *	7.7 *	13.2 *	28.1 *
KERN	8.2	8.8	11.5	12.5	20.4	25.0
KINGS	6.7 *	5.9 *	5.6 *	8.8 *	11.5 *	13.3 *
LAKE	9.4 *	14.0 *	15.3 *	23.3 *	41.3	43.6
LASSEN	5.6 *	7.7 *	14.7 *	15.9 *	23.6 *	29.4 *
LOS ANGELES	5.8	5.8	7.1	7.1	7.0	7.5
MADERA	5.9 *	5.0 *	12.5 *	7.4 *	16.9	15.6
MARIN	0.8 *	2.2 *	4.4 *	5.3 *	11.5	9.9
MARIPOSA	7.3 *	1.9 *	24.0 *	21.9 *	19.5 *	21.3 *
MENDOCINO	4.5 *	5.9 *	16.3 *	12.2 *	15.8 *	26.2
MERCED	7.8	8.6	11.0	9.9	14.9	15.6
MODOC	12.7 *	22.0 *	24.4 *	29.4 *	26.4 *	26.1 *
MONO	-	7.7 *	8.9 *	12.4 *	14.0 *	5.9 *
MONTEREY	9.6	11.5	10.8	14.0	11.9	11.4
NAPA	1.4 *	1.4 *	5.6 *	5.7 *	11.5 *	10.0 *
NEVADA	2.7 *	1.1 *	12.8 *	13.9 *	18.8	21.9 *
ORANGE	2.2	2.0	4.7	4.5	10.4	11.9
PLACER	2.2 *	1.7 *	7.5	6.5	8.9	11.0
PLUMAS	3.1 *	3.5 *	11.8 *	19.5 *	28.5 *	35.2 *
RIVERSIDE	4.4	4.1	7.5	7.2	13.3	15.2
SACRAMENTO	6.0	6.8	9.6	10.0	14.5	17.4
SAN BENITO	5.6 *	1.8 *	5.4 *	5.2 *	8.2 *	7.8 *
SAN BERNARDINO	6.3	5.8	9.0	9.4	9.4	11.3
SAN DIEGO	3.1	2.9	6.5	6.0	13.1	13.1
SAN FRANCISCO	5.3	4.5	5.0	4.6	16.1	19.0
SAN JOAQUIN	11.3	10.1	13.9	12.4	17.2	16.6
SAN LUIS OBISPO	1.7 *	2.5 *	8.8	7.3	14.7	15.8
SAN MATEO	2.8 *	2.3 *	4.4	4.1	7.2	7.6
SANTA BARBARA	2.3 *	3.5 *	5.7	6.6	12.0	15.0
SANTA CLARA	3.2	2.6	4.5	4.2	7.6	7.2
SANTA CRUZ	4.3 *	2.7 *	7.7	8.3	18.8	19.7
SHASTA	5.9 *	6.2 *	14.5	15.1	28.7	22.2
SIERRA	-	-	8.7 *	32.5 *	13.1 *	8.7 *
SISKIYOU	3.2 *	7.1 *	16.1 *	20.7 *	21.0 *	30.0 *
SOLANO	9.2	7.8	12.7	12.2	11.7	13.8
SONOMA	2.3 *	2.5 *	5.8	5.9	9.6	14.1
STANISLAUS	6.7	5.6	10.1	8.3	15.3	18.2
SUTTER	5.2 *	4.5 *	10.7 *	15.0 *	15.5 *	10.8 *
TEHAMA	6.1 *	3.4 *	15.0 *	9.3 *	19.5 *	11.0 *
TRINITY	16.4 *	16.0 *	26.4 *	39.3 *	22.7 *	15.0 *
TULARE	8.4	8.7	12.6	11.2	9.1	10.1
TUOLUMNE	1.9 *	3.2 *	10.5 *	10.9 *	22.7 *	32.9
VENTURA	3.1	3.2	7.3	6.6	13.9	13.4
YOLO	2.1 *	2.2 *	4.4 *	6.9 *	12.5	15.1
YUBA	5.3 *	7.4 *	8.9 *	15.6 *	8.5 *	17.1 *

- 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	MORBIDITY RATES (THREE-YEAR AVERAGE)					
	REPORTED HIV/AIDS INFECTION AGES 13 YEARS & OLDER		REPORTED INCIDENCE OF CHLAMYDIA		REPORTED INCIDENCE OF FEMALE GONORRHEA AGES 15-44	
	2010-2012	2013-2015	2011-2013	2014-2016	2011-2013	2014-2016
CALIFORNIA	379.1	391.7	440.1	480.3	152.6	218.0
ALAMEDA	428.6	447.5	420.7	479.0	188.0	237.1
ALPINE	-	-	142.9 *	230.5 *	-	-
AMADOR	170.8	152.2	173.1	193.0	#	#
BUTTE	119.8	123.4	399.9	520.4	97.2	310.8
CALAVERAS	70.2	88.5	164.1	159.6	#	#
COLUSA	17.6 *	22.6 *	130.1	250.0	#	#
CONTRA COSTA	233.9	247.2	380.8	422.6	227.9	246.0
DEL NORTE	91.9	82.3 *	134.5	265.5	#	345.2 *
EL DORADO	100.3	101.4	153.5	216.0	#	105.6
FRESNO	201.9	229.5	644.6	617.2	402.9	428.9
GLENN	49.7 *	52.7 *	266.6	318.8	#	#
HUMBOLDT	156.7	165.0	292.4	445.9	183.1	315.0
IMPERIAL	158.7	177.0	353.2	418.0	#	137.0
INYO	75.7 *	99.1 *	314.1	336.2	#	#
KERN	242.1	230.8	702.5	707.6	308.0	373.9
KINGS	197.5	228.1	382.5	441.1	98.3	301.9
LAKE	220.4	257.5	259.6	365.1	217.8	719.8
LASSEN	79.0	79.8	198.9	249.7	#	#
LOS ANGELES	555.1	590.1	510.5	558.5	169.3	227.3
MADERA	126.1	134.2	442.5	493.0	197.6	276.3
MARIN	368.3	381.5	195.2	258.0	65.9	105.0
MARIPOSA	111.6 *	124.4	117.1	186.1	#	#
MENDOCINO	186.4	235.9	350.9	375.4	#	353.7
MERCED	88.4	96.2	403.5	415.7	91.7	219.5
MODOC	12.1 *	20.2 *	90.0 *	133.2 *	#	#
MONO	44.1 *	31.1 *	179.4	209.9	#	-
MONTEREY	184.4	191.5	382.3	403.9	124.4	130.7
NAPA	184.1	213.3	229.6	297.7	#	101.5
NEVADA	81.6	97.0	169.6	236.3	#	115.6 *
ORANGE	272.4	273.1	272.4	353.6	59.9	114.2
PLACER	63.4	72.1	214.0	251.8	67.5	114.8
PLUMAS	45.6 *	55.5 *	251.5	306.3	#	#
RIVERSIDE	293.5	323.0	396.4	388.6	109.3	165.9
SACRAMENTO	299.8	309.8	586.6	551.3	339.6	370.8
SAN BENITO	90.5	87.0	371.6	286.0	#	146.8 *
SAN BERNARDINO	190.8	196.9	540.7	520.4	203.2	298.6
SAN DIEGO	466.9	473.7	504.4	529.0	107.0	165.0
SAN FRANCISCO	1,999.9	1,857.4	590.5	843.1	98.0	197.8
SAN JOAQUIN	205.3	226.5	512.7	498.4	264.2	337.9
SAN LUIS OBISPO	267.2	252.3	326.0	392.8	49.3	139.6
SAN MATEO	237.0	243.5	249.4	313.3	48.1	75.5
SANTA BARBARA	149.5	161.2	416.8	495.1	71.7	128.1
SANTA CLARA	214.2	215.5	304.4	344.8	82.4	139.6
SANTA CRUZ	188.0	196.1	326.0	349.2	85.1	125.5
SHASTA	119.7	135.3	328.2	370.3	251.6	507.9
SIERRA	34.9 *	70.7 *	62.4 *	95.3 *	#	#
SISKIYOU	72.0	88.7	177.2	227.7	#	#
SOLANO	327.6	332.1	461.3	547.9	226.5	347.3
SONOMA	298.6	301.9	298.0	359.9	70.8	139.8
STANISLAUS	124.9	131.0	367.9	445.8	132.3	277.9
SUTTER	94.2	98.4	259.2	335.3	#	220.7
TEHAMA	75.0	79.1	302.4	330.4	#	355.5
TRINITY	110.2 *	127.2 *	90.0 *	179.4	#	#
TULARE	75.1	93.4	458.3	511.7	85.4	278.9
TUOLUMNE	84.0	81.9	179.3	209.7	#	142.9 *
VENTURA	131.0	138.4	305.8	304.2	83.3	128.1
YOLO	107.9	124.7	301.7	391.0	69.7	145.2
YUBA	70.8	84.5	292.6	340.9	#	235.4

- Rates and percentages are not calculated for zero events.

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

Rates/percentages are masked per Data De-Identification Guidelines. See technical notes for more information.

Note: 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)					
	REPORTED INCIDENCE OF MALE GONORRHEA AGES 15-44		REPORTED INCIDENCE OF TUBERCULOSIS		REPORTED INCIDENCE OF CONGENITAL SYPHILIS	
	2011-2013	2014-2016	2011-2013	2014-2016	2011-2013	2014-2016
CALIFORNIA	212.8	372.6	5.8	5.4	9.1	30.6
ALAMEDA	241.6	459.3	8.4	8.2	#	#
ALPINE	-	-	-	-	-	-
AMADOR	#	#	0.9 *	-	-	-
BUTTE	74.0	285.3	1.2 *	1.8 *	-	#
CALAVERAS	#	#	1.5 *	2.2 *	-	-
COLUSA	#	#	3.1 *	1.5 *	-	#
CONTRA COSTA	161.5	295.6	5.3	4.0	#	#
DEL NORTE	-	193.4 *	-	-	-	-
EL DORADO	38.3 *	112.7	1.1 *	2.0 *	-	-
FRESNO	277.0	353.8	4.1	5.2	#	239.8
GLENN	#	#	4.7 *	2.3 *	-	-
HUMBOLDT	144.3	367.8	2.0 *	2.2 *	-	-
IMPERIAL	44.4 *	115.4	17.7	20.1	-	#
INYO	#	#	-	-	-	-
KERN	311.7	416.4	4.0	3.3	#	172.7
KINGS	64.6	229.1	3.8 *	2.2 *	-	#
LAKE	136.0 *	519.2	2.6 *	2.0 *	#	-
LASSEN	#	#	2.0 *	-	-	-
LOS ANGELES	304.8	513.4	7.0	6.1	#	24.4
MADERA	126.3	206.8	6.2 *	3.7 *	-	#
MARIN	92.4	164.9	5.2 *	2.9 *	-	-
MARIPOSA	#	#	-	-	-	-
MENDOCINO	#	246.3	1.9 *	0.8 *	-	#
MERCED	76.7	236.6	4.7 *	4.1 *	#	-
MODOC	#	#	-	-	-	-
MONO	#	#	-	2.4 *	-	-
MONTEREY	106.1	178.8	4.7	4.1 *	-	#
NAPA	43.7 *	136.4	2.9 *	1.6 *	-	-
NEVADA	#	119.8 *	0.7 *	1.0 *	-	-
ORANGE	104.6	219.5	6.4	5.4	#	#
PLACER	68.1	135.2	1.7 *	1.3 *	#	-
PLUMAS	#	#	-	1.7 *	-	-
RIVERSIDE	109.0	224.2	2.6	2.4	#	#
SACRAMENTO	283.6	389.9	5.1	4.7	#	#
SAN BENITO	#	195.1	2.4 *	1.7 *	-	-
SAN BERNARDINO	168.8	298.5	2.7	2.9	#	#
SAN DIEGO	199.6	329.1	7.4	7.2	#	#
SAN FRANCISCO	852.0	1,506.2	13.3	11.9	#	#
SAN JOAQUIN	220.5	336.8	6.2	7.1	#	#
SAN LUIS OBISPO	54.4	169.3	1.6 *	0.7 *	-	#
SAN MATEO	107.3	216.2	7.7	8.0	#	#
SANTA BARBARA	58.0	143.6	5.5	4.3 *	#	#
SANTA CLARA	120.8	237.6	9.7	9.0	#	#
SANTA CRUZ	83.8	191.0	2.7 *	1.6 *	#	#
SHASTA	203.9	477.8	0.9 *	1.5 *	-	#
SIERRA	#	#	-	-	-	-
SISKIYOU	#	#	-	0.7 *	#	-
SOLANO	159.7	354.1	5.0	5.5	#	#
SONOMA	89.6	215.6	2.3 *	2.2 *	-	#
STANISLAUS	137.9	332.5	1.7 *	2.5 *	#	#
SUTTER	87.6 *	173.0	5.2 *	2.7 *	-	-
TEHAMA	156.1 *	275.3	0.5 *	0.5 *	-	-
TRINITY	#	#	-	2.5 *	-	-
TULARE	95.1	276.3	3.5 *	3.7 *	#	#
TUOLUMNE	#	148.4 *	-	-	-	#
VENTURA	83.8	157.0	3.9	4.0	-	#
YOLO	100.8	213.2	1.9 *	4.2 *	-	-
YUBA	87.8 *	207.9	3.6 *	3.1 *	-	-

- Rates and percentages are not calculated for zero events.

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

Rates/percentages are masked per Data De-Identification Guidelines. See technical notes for more information.

Note: 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)		MORBIDITY RATES (THREE-YEAR AVERAGE)		MORTALITY RATES (THREE-YEAR AVERAGE)	
	INCIDENCE OF FEMALE PRIMARY/SECONDARY SYPHILIS		INCIDENCE OF MALE PRIMARY/SECONDARY SYPHILIS		INFANT MORTALITY ALL RACE/ETHNIC GROUPS	
	2011-2013	2014-2016	2011-2013	2014-2016	2010-2012	2013-2015
CALIFORNIA	0.8	2.6	15.0	22.5	4.8	4.6
ALAMEDA	1.7 *	1.9 *	16.9	18.9	4.4	4.2
ALPINE	-	-	-	-	-	-
AMADOR	-	#	#	#	#	#
BUTTE	-	#	#	#	4.8 *	4.9 *
CALAVERAS	-	#	#	#	#	#
COLUSA	-	-	-	#	#	#
CONTRA COSTA	#	2.0 *	11.7	13.4	4.7	3.9
DEL NORTE	-	-	-	-	#	#
EL DORADO	#	#	#	#	#	#
FRESNO	2.5 *	20.7	10.5	32.8	7.0	8.1
GLENN	-	-	-	#	#	#
HUMBOLDT	#	-	#	#	7.3 *	#
IMPERIAL	-	#	#	#	3.9 *	3.5 *
INYO	-	-	-	-	#	#
KERN	3.6 *	12.8	14.7	28.8	5.8	6.8
KINGS	#	#	#	16.3 *	6.5 *	5.4 *
LAKE	#	-	#	#	#	#
LASSEN	-	-	-	#	#	#
LOS ANGELES	0.5	1.7	18.8	28.8	4.7	4.3
MADERA	#	#	#	19.1 *	6.2 *	5.0 *
MARIN	#	#	8.7 *	12.9 *	#	#
MARIPOSA	-	#	#	#	#	#
MENDOCINO	-	#	#	#	#	#
MERCED	#	#	#	8.8 *	5.5	3.9 *
MODOC	-	-	-	-	#	#
MONO	-	#	-	#	#	#
MONTEREY	#	#	8.6 *	12.7	4.9	5.2
NAPA	-	#	#	#	#	#
NEVADA	-	#	#	#	#	#
ORANGE	#	0.9 *	7.8	15.5	3.8	3.2
PLACER	#	#	#	7.3 *	4.3 *	4.8 *
PLUMAS	-	-	-	-	#	#
RIVERSIDE	#	1.0 *	10.7	18.5	5.0	4.6
SACRAMENTO	#	2.5 *	16.8	24.5	5.4	5.2
SAN BENITO	-	#	#	#	#	#
SAN BERNARDINO	#	1.4 *	5.7	11.1	6.0	6.3
SAN DIEGO	0.7 *	1.1 *	19.7	27.3	4.2	4.0
SAN FRANCISCO	#	2.7 *	103.4	107.0	3.1	3.3
SAN JOAQUIN	#	13.1	16.4	31.1	5.9	6.4
SAN LUIS OBISPO	#	#	#	#	6.4 *	4.9 *
SAN MATEO	#	#	11.4	14.3	2.7	2.6
SANTA BARBARA	-	#	5.2 *	11.6	4.0	4.0
SANTA CLARA	#	1.7 *	10.9	14.5	3.1	3.2
SANTA CRUZ	#	#	12.7 *	19.2	4.1 *	4.2 *
SHASTA	-	#	#	#	6.2 *	#
SIERRA	-	-	-	-	-	-
SISKIYOU	-	#	#	#	#	#
SOLANO	#	#	9.5 *	16.5	5.6	5.4
SONOMA	#	#	10.9	12.8	4.7	3.1 *
STANISLAUS	#	7.4	14.4	20.9	6.2	5.4
SUTTER	#	-	#	#	#	#
TEHAMA	-	#	#	#	#	#
TRINITY	-	-	-	-	#	#
TULARE	#	#	5.4 *	11.9	4.8	5.8
TUOLUMNE	#	#	#	#	#	#
VENTURA	#	#	3.6 *	8.3	4.6	4.8
YOLO	-	#	#	16.7 *	#	5.5 *
YUBA	-	#	#	#	#	#

- Rates and percentages are not calculated for zero events.

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

Rates/percentages are masked per Data De-Identification Guidelines. See technical notes for more information.

Note: 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	PERCENT (THREE-YEAR AVERAGE)		AGE SPECIFIC BIRTH RATE (THREE YEAR AVERAGE)		PERCENT (THREE YEAR AVERAGE)	
	LOW BIRTHWEIGHT INFANTS		BIRTHS TO ADOLESCENT MOTHERS, 15-19 YEARS OLD		FIRST TRIMESTER PRENATAL CARE	
	2011-2013	2014-2016	2011-2013	2014-2016	2011-2013	2014-2016
CALIFORNIA	6.8	6.8	24.9	17.6	83.6	83.3
ALAMEDA	7.5	7.1	15.9	9.6	89.8	89.9
ALPINE	#	#	#	-	#	#
AMADOR	7.6	7.0	18.9 *	15.8 *	87.3	85.7
BUTTE	5.7	6.1	21.6	15.9	74.6	70.7
CALAVERAS	4.6 *	6.0	12.9 *	11.0 *	80.0	78.8
COLUSA	6.1 *	7.5	31.5	27.4	72.8	69.7
CONTRA COSTA	6.9	6.8	15.8	10.9	85.2	86.9
DEL NORTE	4.8 *	6.6	42.7	38.1	78.7	70.1
EL DORADO	6.1	6.7	11.2	8.3	79.4	79.9
FRESNO	7.8	7.6	40.7	29.5	88.0	87.9
GLENN	7.3	5.4	36.8	24.4	67.7	65.6
HUMBOLDT	5.2	6.0	21.4	14.5	78.5	77.5
IMPERIAL	5.3	5.7	46.8	37.6	53.4	42.4
INYO	8.2 *	6.4 *	33.7 *	28.9 *	78.0	76.3
KERN	7.1	7.3	47.3	35.3	76.2	76.8
KINGS	6.3	6.4	43.0	31.5	73.2	69.1
LAKE	6.7	6.3	35.7	30.5	69.7	69.9
LASSEN	7.5	7.6	32.8	20.1 *	78.4	70.5
LOS ANGELES	7.0	7.1	24.6	17.0	85.1	84.9
MADERA	6.3	6.3	44.3	35.4	73.5	74.9
MARIN	6.0	5.9	8.5	7.4	93.4	88.7
MARIPOSA	#	#	25.0 *	#	70.2	64.8
MENDOCINO	6.0	6.4	34.3	24.9	68.4	69.3
MERCED	6.7	5.9	38.4	28.9	63.4	67.1
MODOC	#	#	#	#	66.8	59.8
MONO	#	#	#	#	76.8	72.8
MONTEREY	5.8	6.2	39.8	27.7	72.8	74.4
NAPA	6.2	5.4	20.0	12.4	86.6	88.2
NEVADA	5.9	5.9	13.9	10.3	74.6	74.0
ORANGE	6.4	6.3	17.7	12.2	89.6	87.0
PLACER	5.7	5.7	10.9	7.5	84.4	82.7
PLUMAS	7.5 *	10.6 *	#	#	73.5	71.0
RIVERSIDE	6.5	6.7	26.2	19.5	84.5	83.2
SACRAMENTO	6.7	6.9	23.9	16.6	81.6	83.3
SAN BENITO	6.5	6.2	22.1	18.5	82.8	84.6
SAN BERNARDINO	7.3	7.3	32.1	24.3	83.4	83.4
SAN DIEGO	6.5	6.5	22.8	15.7	84.1	84.0
SAN FRANCISCO	7.1	6.9	11.0	7.4	88.9	87.6
SAN JOAQUIN	7.1	7.3	30.3	21.6	76.8	77.9
SAN LUIS OBISPO	6.0	6.1	14.9	11.8	80.1	80.5
SAN MATEO	6.6	7.0	14.3	10.2	90.3	90.0
SANTA BARBARA	6.2	6.3	26.2	18.8	76.0	77.8
SANTA CLARA	7.0	7.0	16.2	10.5	85.4	84.9
SANTA CRUZ	5.6	5.6	19.1	12.2	82.6	82.4
SHASTA	6.3	6.1	27.5	21.5	67.6	72.5
SIERRA	#	#	#	#	#	#
SISKIYOU	7.5	8.3	30.7	21.7	78.9	75.2
SOLANO	7.0	6.5	22.2	14.8	78.7	79.6
SONOMA	5.6	5.8	16.0	10.7	84.3	86.8
STANISLAUS	6.2	6.5	30.7	25.0	78.5	79.5
SUTTER	5.9	6.8	24.9	20.5	71.2	68.8
TEHAMA	5.9	6.1	31.3	29.2	70.9	69.0
TRINITY	#	#	27.0 *	#	55.3	64.0
TULARE	6.3	6.8	50.3	35.7	81.5	75.9
TUOLUMNE	5.1	7.5	17.8	14.9	79.5	72.0
VENTURA	6.3	6.1	23.8	16.5	82.4	83.6
YOLO	6.0	5.7	14.6	8.9	82.7	82.8
YUBA	6.0	6.5	33.1	28.5	71.3	68.6

- Rates and percentages are not calculated for zero events.

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

Rates/percentages are masked per Data De-Identification Guidelines. See technical notes for more information.

Note: 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	PERCENT (THREE YEAR AVERAGE)		PERCENT BREASTFED (THREE YEAR AVERAGE)	
	ADEQUATE/ADEQUATE PLUS PRENATAL CARE		BIRTHS WITH KNOWN FEEDING METHOD	
	2011-2013	2014-2016	2011-2013	2014-2016
CALIFORNIA	79.2	77.9	92.3	93.8
ALAMEDA	78.2	75.0	96.6	97.4
ALPINE	#	#	#	#
AMADOR	86.1	86.1	94.5	96.3
BUTTE	77.6	77.2	91.3	92.2
CALAVERAS	80.4	81.3	94.2	95.5
COLUSA	79.2	75.0	89.0	93.4
CONTRA COSTA	77.1	77.0	95.8	96.7
DEL NORTE	80.9	75.7	90.8	89.8
EL DORADO	79.1	79.7	96.3	96.7
FRESNO	89.4	88.8	84.1	87.7
GLENN	77.4	76.5	92.8	94.3
HUMBOLDT	76.1	75.4	93.6	93.3
IMPERIAL	57.8	47.1	88.8	93.1
INYO	78.6	78.4	97.0	97.7
KERN	72.7	71.8	86.3	89.5
KINGS	70.6	66.0	81.6	87.8
LAKE	64.1	67.3	91.7	92.5
LASSEN	66.9	58.6	93.9	93.5
LOS ANGELES	81.2	80.3	91.9	93.8
MADERA	65.9	70.2	91.5	90.9
MARIN	88.5	80.4	98.6	98.8
MARIPOSA	64.0	63.1	96.1	95.4
MENDOCINO	75.8	76.9	95.2	96.3
MERCED	60.4	64.4	89.6	92.0
MODOC	61.3	59.4	90.8	91.6
MONO	80.7	80.9	95.7	98.2
MONTEREY	72.9	78.3	96.6	96.8
NAPA	78.4	78.8	97.0	97.0
NEVADA	76.8	76.0	97.0	97.8
ORANGE	88.6	84.5	93.5	95.0
PLACER	84.1	83.1	95.4	96.0
PLUMAS	67.0	54.0	95.5	96.5
RIVERSIDE	81.0	74.9	91.6	92.5
SACRAMENTO	78.2	80.6	91.1	92.4
SAN BENITO	77.8	82.6	95.3	94.4
SAN BERNARDINO	75.8	71.6	87.5	89.3
SAN DIEGO	74.2	74.2	95.3	96.1
SAN FRANCISCO	80.5	78.6	96.6	97.0
SAN JOAQUIN	72.1	74.6	87.8	89.2
SAN LUIS OBISPO	86.6	87.0	97.0	97.4
SAN MATEO	84.0	81.6	97.1	97.3
SANTA BARBARA	82.5	84.8	95.2	95.8
SANTA CLARA	77.0	75.6	96.2	97.1
SANTA CRUZ	84.5	84.0	98.1	98.6
SHASTA	74.5	80.4	94.2	94.9
SIERRA	#	#	#	#
SISKIYOU	78.4	75.9	91.6	95.2
SOLANO	67.5	69.2	93.9	94.8
SONOMA	76.5	78.8	97.2	97.5
STANISLAUS	69.7	69.8	87.1	89.2
SUTTER	81.4	80.2	89.0	92.5
TEHAMA	76.7	76.2	92.4	93.8
TRINITY	64.9	68.7	96.2	95.0
TULARE	81.7	79.4	86.4	89.4
TUOLUMNE	78.8	78.7	96.2	95.9
VENTURA	82.8	85.5	95.1	96.1
YOLO	81.2	82.0	95.7	96.7
YUBA	79.8	78.3	86.9	90.1

- Rates and percentages are not calculated for zero events.

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

Rates/percentages are masked per Data De-Identification Guidelines. See technical notes for more information.

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

TECHNICAL NOTES

DATA SOURCES

The Center for Health Statistics and Informatics, birth and death registration systems were the source for the birth and death data in this report. Data were tabulated from the Birth Statistical Master Files for the years 2011 through 2016. Death data were tabulated from the Death Statistical Master Files for the years 2011 to 2013 and Vital Records Business Intelligence System Plus (VRBIS) for the data years 2014 through 2016, extracting data in the Comprehensive Death Data File (CCDF). The CCDF provides continually evolving data refinement as warranted. Extractions for Profiles are referred to in the table and map footnotes as VRBIS Death Statistical Master File 2014-2016. The linked births-deaths in the Birth Cohort-Perinatal Outcome Files for the years 2010 through 2015 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, congenital syphilis, primary/secondary syphilis, and tuberculosis. The [Office of AIDS Surveillance Section](#), provided incidence data of diagnosed HIV 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 February 2, 2017 and revised on June 20, 2017, provided by the Demographic Research Unit. Projections were used in the development of the age-adjusted rates, crude case rates, and age-specific birth rates for the current period (2014-2016) and previous period (2011-2013).

Estimates of persons under age 18 in poverty are obtained from the U.S. Census Bureau [Small Area Income and Poverty Estimates \(SAIPE\) Program](#).

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.

Website addresses can be found at the conclusion of this report.

DATA DEFINITIONS

Data De-Identification: In order to prevent inadvertent or intentional identification of individuals from the County Health Status Profiles data, the Center for Health Statistics and Informatics reviews all tables prior to release, and implements cell suppression procedures in accordance with the [California Health and Human Services Data De-Identification Guidelines](#).

Mortality (Tables 1-19): Use of the consensus set of health status indicators has been facilitated by reference to the causes of mortality coded using the International Classification of Diseases, Tenth Revision (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).

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 National Objectives, where applicable, are current as of January 2, 2018.

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	J09-18
Table 12: Chronic Lower Respiratory Disease.....	J40-J47
Table 13: Chronic Liver Disease and Cirrhosis	K70, K73-74
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, X72-74, 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), can be found at [online case definitions](#).

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.

Tuberculosis (Table 23): A Tuberculosis (TB) case submitted to the TBCB Registry by April 12, 2017 was included as a 2016 case in this report if the case was confirmed as active TB between January 1 and December 31, 2016. After reporting the case, a jurisdiction may subsequently decide that a reported case did not have TB. Also, a few cases may be reported after the submission deadline. These changes will be reflected in future reports. Therefore, the total number of TB cases counted in a given year may change, usually by a small number of cases. This small change in case numbers may also be reflected in the two sets of TB numbers released each year, a provisional case count used in early reports and materials generated in March for World TB Day, and a final case count which is used in this report.

For surveillance purposes, a case of TB is defined by laboratory and clinical evidence of disease caused by *Mycobacterium tuberculosis* (*Mtb*) complex. TB cases with culture or nucleic acid amplification evidence of *Mtb*, or acid fast bacilli in a smear from a clinical specimen (when a culture cannot be obtained, or positive results are negative or contaminated) are classified as laboratory-confirmed. In the absence of laboratory confirmation, persons with a positive tuberculin skin test (TST) or positive interferon gamma release assay (IGRA) for *Mtb*, abnormal chest imaging (in those with pulmonary disease), and treatment with two or more anti-TB medications will be classified as clinically-confirmed TB. Reported cases not meeting one or more of the clinical criteria for TB are classified as provider-diagnosed cases because the health care provider has determined there is sufficient evidence of active TB disease to report the case. All of these cases are considered active cases of disease and are reportable.

Effective with the *Profiles 2018*, CDPH, Center for Health Statistics and Informatics, Data Analysis and Reporting (DAR) Unit enacted the following notable changes compared to prior years:

- Table 20 – Reported Incidence of AIDS/HIV Among Population Ages 13 Years and Older (Table 20). Counts were based on any case having HIV or AIDS each year. Please visit [Office of AIDS for complete data surveillance methods and data systems used in collection of data](#).

Prior years solely collected the reported incidences of AIDS among the population of 13 years and older. Data availability for Table 20 of incidences of HIV/AIDS is one year behind compared to majority of other programs. Current mortality and morbidity tables reflect data from 2014-2016; however, Table 20 reflects data from 2013-2015.

- Table 23C – Reported Incidence of Congenital Syphilis, analysis added per survey conducted requesting addition.

- Table 23F – Reported Incidence of Primary & Secondary Syphilis Among Females, analysis added per survey conducted requesting addition.
- Table 23M – Reported Incidence of Primary & Secondary Syphilis Among Males, analysis added per survey conducted requesting addition.

Birth Cohort Infant Mortality (Table 24A): The [infant mortality](#) rate is the number of deaths among infants under one year of age per 1,000 live births. It is a universally accepted and easily understood indicator, which represents the overall health status of a community.

Studies of infant mortality 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.

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. Within the 2012 through 2015 Birth Cohort-Perinatal Outcome Files, the files differ from previous Cohort files due to the absence of fetal deaths. Because the infant mortality rate does not include fetal deaths, this difference will likely have a negligible effect on the rate.

Effective with the *Profiles 2018*, CDPH, Center for Health Statistics and Informatics, DAR Unit enacted the following notable changes compared to prior years:

- Tables 24B, C, D, and E – Infant Mortality among specific race/ethnicities. Analysis removed due to application of California Health and Human Services Agency Data De-Identification standards. It is anticipated that individual counties will receive this public health data in their individual county sheets.

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

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

The prenatal care indicator, Month Prenatal Care Began, has been associated with access to care. However, the percentage of births in which the mother's prenatal care began in the first trimester, as a health indicator, does not readily permit an unambiguous interpretation. According to some researchers, it fails to document whether or not prenatal care actually continues throughout the pregnancy. Therefore, in addition to Prenatal Care Begun during the First Trimester of Pregnancy, this report includes adequacy of prenatal

care based on the Adequacy of Prenatal Care Utilization Index. For further information on the Adequacy of Prenatal Care Utilization Index, see the ["American Journal of Public Health"](#) article by Kotelchuck listed in the bibliography.

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

The Adequacy of Prenatal Care Utilization Index developed by Milton Kotelchuck attempts to characterize prenatal care utilization in two independent and distinctive dimensions: adequacy of prenatal care initiation and services received (once prenatal care has begun). The initial dimension, adequacy of prenatal care initiation, characterizes the month prenatal care began and its timeliness. The second dimension, adequacy of received services, characterizes the number of prenatal care visits received from the time the mother began prenatal care until delivery. The adequacy of prenatal visits is based on the recommendations established by the American College of Obstetricians and Gynecologists. These two dimensions are then combined into a single summary prenatal care utilization index, which contains the following five categories for adequacy of prenatal care:

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

Only adequate and adequate plus prenatal care is used in Table 27B to measure the adequacy of prenatal care utilization. Also, please note the two-factor index does not assess the quality of the prenatal care that was delivered, but simply its utilization. For further information on the Adequacy of Prenatal Care Utilization Index, see the ["American Journal of Public Health"](#) article by Kotelchuck listed in the bibliography.

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

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

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, and Newborn Screening Data with analyses by the Maternal, Child and Adolescent Health Program. All non-military hospitals providing maternity services are required to complete the Newborn Screening Test Form prior to an infant's discharge. Analysis is limited to cases reported on the Newborn Screening Test Form [Version NBS-I (D)].

Infant feeding data presented in this report include all feedings from birth to time of specimen collection, usually 24 to 48 hours. To complete the form, staff must select from the following three categories to describe all feeding since birth: (1) Only Human Milk; (2) Only Formula; and (3) Human Milk & Formula. In Table 28, the number for "BREASTFED" includes records marked 'Only Human Milk' or 'Human Milk & Formula'. The "TOTAL NUMBER" excludes data for infants who were in a Neonatal Intensive Care Unit (NICU) nursery or received Total Parenteral Nutrition (TPN) at the time of specimen collection. Also, excluded are cases with an unknown method of feeding. Statewide, approximately 2.2 percent of cases have missing feeding information and/or receive TPN at the time of specimen collection. For this same period, approximately 0.6 percent of cases are missing maternal county of residence data.

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

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

CRUDE RATES AND AGE-ADJUSTED RATES

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

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

those HP 2020 National Objectives that are expressed as age-adjusted rates.

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

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

RELIABILITY OF RATES

Age-adjusted rates were calculated using the year 2000 U.S. 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](#). All vital statistics rates and morbidity rates are subject to random variation. This variation is inversely related to the number of events (e.g., deaths) used in calculating the rate. Small frequencies in the occurrence of events produce a greater likelihood that random fluctuations will be found within a specified time period. Rare events are relatively less stable in their occurrence from observation to observation. As a consequence, counties with only a few deaths, or a few cases of morbidity, can have highly unstable rates from year to year. The observation of zero events is especially hazardous, regardless of the population size. This report reduces some year-to-year fluctuation in the occurrence of rare events by basing rates on three-year average numbers of events (e.g., 2012-2014), divided by the population in the middle year (e.g., 2013).

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

The 95 percent confidence limits depict the range within which the rate would probably occur in 95 of 100 sets of data (if data similar to the present set were independently acquired on 100 separate occasions). In five of those 100 data sets, the rate or percent would fall outside the limits. Confidence intervals based on 100 or more data elements are calculated utilizing a normal distribution. In cases where there are fewer than 100 data elements, the gamma

distribution is used. For appropriate statistical methodologies in comparing independent rates or percentages, please see the NCHS reports listed in the bibliography by Curtin and Klein on “Direct Standardization” and by Kleinman on “Infant Mortality.”

RANKING OF COUNTIES

Data for each health indicator are displayed with the counties in rank order by increasing rates or percentages (calculated to 15 decimal places) with the exceptions of prenatal care begun during the first trimester of pregnancy (Table 27A), prenatal care adequacy (Table 27B) and breastfeeding initiation (Table 28). The county with the lowest rate or percentage is in the first rank moving down the column to the highest rate or percentage. Data for prenatal care begun during the first trimester of pregnancy, data for adequacy of prenatal care and data for breastfeeding initiation are displayed with the counties in rank order by decreasing percentages (calculated to 15 decimal places). The county possessing the highest percentage is in the first rank and the county with the lowest percentage is in the 58th rank. For all health indicators, counties with identical rates or percentages are ranked first by largest population or number of births. Counties masked due to the California Health and Human Services Data De-Identification Guidelines are listed by alphabetically below the ranked counties.

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 at [Healthy People 2020](#).

THEMATIC MAPS

ArcGIS, version 10.4, ArcMap software was used to create the thematic maps. Mapped data were derived from the rates/percentages displayed in the column to the immediate left of the 95 percent confidence intervals in the adjacent table. Counties with rates or percentages based on fewer than 20 data elements are shown with an overlay of diagonal dashes. Counties with zero events are shown in a bright yellow color.

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

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

ALZHEIMER'S DISEASE REPORTING – SANTA CLARA COUNTY

Santa Clara County reported an abrupt decline in the number of Alzheimer's deaths from

each year from 2012 to 2016 due to a change in cause of death reporting practice among some certifiers of death in that county. Therefore, Profiles 2018 data for Santa Clara County may not reflect a true decline in the number of Alzheimer's deaths. While Alzheimer's related deaths were previously reported as "Alzheimer's disease" or "Alzheimer's dementia", many certifiers in Santa Clara County appear to now be reporting those deaths using the more general term of "neurodegenerative disease or disorder". Accordingly, Santa Clara County has seen a rise in deaths from "neurodegenerative disease or disorder" that is roughly in line with the decrease in deaths from Alzheimer's.

To access electronic copies of this report and previous reports (1999 to current), visit the [CDPH, Center for Health Statistics](#) page.

If you have questions about this report, or desire additional state or county health status data and statistics, please contact:

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FORMULAS USED IN THIS REPORT

$$CDR = \left(\frac{n^D}{N_{pop_a}} \right) \times B$$

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

$$ASDR = \left(\frac{n^{D_a}}{N_{pop_a}} \right) \times B$$

$$SE_x = \left(\frac{CDR}{\sqrt{n^D}} \right) \quad SE_y = \sqrt{\sum \frac{(W_a \times ASDR)^2}{n^{D_a}}}$$

$$RSE_x = \left(\frac{SE_x}{CDR} \right) \times 100 \quad RSE_y = \left(\frac{SE_y}{ADR} \right) \times 100$$

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

Where:

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

Gamma Distribution Confidence Intervals

Lower 95% CL = Rate x GamInv (0.025, Numerator of Rate) / Numerator of Rate

Upper 95% CL = Rate x GamInv (0.975, 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, 2014 - 2016 for Alameda County.

ALAMEDA COUNTY					
Age Groups	2014 - 2016 Deaths (Average) (A)	2015 Population (B)	AGE-SPECIFIC RATE/100,000 (C)	2000 U.S. STANDARD POPULATION PROPORTIONS (D)	WEIGHTED RATE FACTORS (E)
Total	9,682.00	1,619,679			
Unknown	3.00				
<1	74.00	19,514	379.21	0.013818	5.2
1-4	9.33	77,248	12.08	0.055317	0.7
5-14	11.33	192,249	5.90	0.145565	0.9
15-24	121.33	224,233	54.11	0.138646	7.5
25-34	189.00	240,110	78.71	0.135573	10.7
35-44	269.33	231,112	116.54	0.162613	19.0
45-54	580.67	224,687	258.43	0.134834	34.8
55-64	1,278.67	197,816	646.39	0.087247	56.4
65-74	1,683.67	125,509	1341.47	0.066037	88.6
75-84	2,065.00	59,367	3478.36	0.044842	156.0
>84	3,396.67	27,834	12203.30	0.015508	189.2
AGE-ADJUSTED RATE.....					568.9

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 568.9 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 rate.

**APPENDIX A
CALIFORNIA'S HEALTH STATUS PROFILE FOR 2018**

MORTALITY									
HP 2020		2014-2016		AGE-ADJUSTED	95% CONFIDENCE LIMITS		NATIONAL	AGE-ADJUSTED	
OBJECTIVE	HEALTH STATUS INDICATOR	DEATHS (AVERAGE)	CRUDE DEATH RATE		LOWER	UPPER			OBJECTIVE
	1	ALL CAUSES	254,626.3	651.9	608.5	606.1	610.9	a	633.5
C-1	2	ALL CANCERS	58,930.7	150.9	140.2	139.0	141.3	161.4	149.0
C-5	3	COLORECTAL CANCER	5,394.3	13.8	12.8	12.5	13.1	14.5	13.7
C-2	4	LUNG CANCER	12,080.3	30.9	28.9	28.3	29.4	45.5	33.0
C-3	5	FEMALE BREAST CANCER	4,391.0	22.4	19.1	18.5	19.7	20.7	20.5
C-7	6	PROSTATE CANCER	3,368.7	17.3	19.6	18.9	20.3	21.8	19.8
	7	DIABETES	8,695.7	22.3	20.7	20.3	21.1	b	20.5
	8	ALZHEIMER'S DISEASE	14,386.7	36.8	34.2	33.6	34.7	a	30.4
HDS-2	9	CORONARY HEART DISEASE	37,658.7	96.4	89.1	88.2	90.0	103.4	102.4
HDS-3	10	CEREBROVASCULAR DISEASE (STROKE)	14,753.3	37.8	35.3	34.8	35.9	34.8	35.4
	11	INFLUENZA/PNEUMONIA	6,003.7	15.4	14.3	14.0	14.7	a	16.1
	12	CHRONIC LOWER RESPIRATORY DISEASE	13,311.7	34.1	32.1	31.6	32.7	a	35.4
SA-11	13	CHRONIC LIVER DISEASE AND CIRRHOSIS	5,214.3	13.3	12.2	11.8	12.5	8.2	11.6
IVP-11	14	ACCIDENTS (UNINTENTIONAL INJURIES)	12,367.7	31.7	30.3	29.8	30.9	36.4	27.7
IVP-13.1	15	MOTOR VEHICLE TRAFFIC CRASHES	3,558.7	9.1	8.8	8.6	9.1	12.4	7.6
MHMD-1	16	SUICIDE	4,187.0	10.7	10.4	10.1	10.7	10.2	10.1
IVP-29	17	HOMICIDE	1,940.7	5.0	5.0	4.7	5.2	5.5	5.1
IVP-30	18	FIREARM-RELATED DEATHS	3,049.0	7.8	7.6	7.4	7.9	9.3	7.7
SA-12	19	DRUG-INDUCED DEATHS	4,962.0	12.7	12.2	11.8	12.5	11.3	11.1
MORBIDITY									
HP 2020		2014-2016		AGE-ADJUSTED	95% CONFIDENCE LIMITS		NATIONAL	CRUDE	
OBJECTIVE	HEALTH STATUS INDICATOR	CASES (AVERAGE)	CRUDE CASE RATE		LOWER	UPPER			OBJECTIVE
	20	INCIDENCE OF HIV/AIDS (AGE 13 AND OVER) †	125,802.7	391.7		389.5	393.8	a	379.1
	21	CHLAMYDIA INCIDENCE	187,602.0	480.3		478.1	482.5	c	440.1
STD-6.1	22F	GONORRHEA INCIDENCE FEMALES AGE 15-44	17,290.3	218.0		214.8	221.3	251.9	152.6
STD-6.2	22M	GONORRHEA INCIDENCE MALES AGES 15-44	31,002.0	372.6		368.4	376.7	194.8	212.8
IID-29	23	TUBERCULOSIS INCIDENCE	2,107.7	5.4		5.2	5.6	1.0	5.8
STD-8	23C	CONGENITAL SYPHILIS	151.3	30.6		25.7	35.5	9.6	9.1
STD-7.1	23F	PRIMARY/SECONDARY SYPHILIS FEMALES	504.7	2.6		2.4	2.9	1.3	0.8
STD-7.2	23M	PRIMARY/SECONDARY SYPHILIS MALES	4,378.3	22.5		21.9	23.2	6.7	15.0
INFANT MORTALITY									
HP 2020		2013-2015		BIRTH COHORT	95% CONFIDENCE LIMITS		NATIONAL	BC INFANT	
OBJECTIVE	HEALTH STATUS INDICATOR	DEATHS (AVERAGE)	INFANT DEATH RATE		LOWER	UPPER			OBJECTIVE
MICH-1.3	24A	INFANT MORTALITY: ALL RACES	2,276.0	4.6		4.4	4.8	6.0	4.8
NATALITY									
HP 2020		2014-2016		AGE-ADJUSTED	95% CONFIDENCE LIMITS		NATIONAL	PERCENT	
OBJECTIVE	HEALTH STATUS INDICATOR	BIRTHS (AVERAGE)	PERCENT		LOWER	UPPER			OBJECTIVE
MICH-8.1	25	LOW BIRTHWEIGHT INFANTS	33,655.3	6.8		6.7	6.9	7.8	6.8
MICH-10.1	27A	FIRST TRIMESTER PRENATAL CARE	405,647.0	83.3		83.1	83.6	77.9	83.6
MICH-10.2	27B	ADEQUATE/ADEQUATE PLUS PRENATAL CARE	377,250.7	77.9		77.7	78.2	77.6	79.2
HP 2020		2014-2016		AGE-SPECIFIC	95% CONFIDENCE LIMITS		NATIONAL	AGE-SPECIFIC	
OBJECTIVE	HEALTH STATUS INDICATOR	BIRTHS (AVERAGE)	BIRTH RATE		LOWER	UPPER			OBJECTIVE
	26	BIRTHS TO MOTHERS AGED 15-19	24,209.3	17.6		17.4	17.8	a	24.9
BREASTFEEDING									
HP 2020		2014-2016		AGE-ADJUSTED	95% CONFIDENCE LIMITS		NATIONAL	PERCENT	
OBJECTIVE	HEALTH STATUS INDICATOR	BREASTFED (AVERAGE)	PERCENT		LOWER	UPPER			OBJECTIVE
MICH-21.1	28	BREASTFEEDING INITIATION	402,751.3	93.8		93.6	94.1	81.9	92.3
CENSUS									
HP 2020		2015		AGE-ADJUSTED	95% CONFIDENCE LIMITS		NATIONAL	PERCENT	
OBJECTIVE	HEALTH STATUS INDICATOR	NUMBER	PERCENT		LOWER	UPPER			OBJECTIVE
	29	PERSONS UNDER 18 IN POVERTY	1,901,985.0	20.7		20.6	20.7	a	22.1

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.

c California's data exclude multiple/contributing causes of death.

Notes 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.

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 2011-2013, Morbidity 2011-2013, Infant Mortality 2010-2012, Natality 2011-2013, Census 2014.

† California Department of Public Health, Office of AIDS, HIV/AIDS Surveillance Section reporting periods are: Current Period 2013-2015, Previous Period 2010-2012.

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CDPH, Maternal, Child and Adolescent Health Division
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