



**COUNTY  
HEALTH  
STATUS  
PROFILES  
2007**

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

**December 2007**

# COUNTY HEALTH STATUS PROFILES 2007

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Cover Photography by **Akkana Peck**: California Valley Quail (State Bird).



MARK B HORTON, MD, MSPH  
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Dear Colleague:

We are pleased to present California's **County Health Status Profiles 2007**. This report contains selected health status indicators recommended by the U.S. Public Health Service for monitoring state and local progress toward achieving the goals set forth in **Healthy People 2010**. The Healthy People 2010 National Objectives challenge public health professionals to increase the span of healthy life, reduce health disparities, and ensure access to preventive services for all Americans.

The **County Health Status Profiles** report is updated each year and amended according to priorities developed by the California Department of Public Health and the California Conference of Local Health Officers. Health status indicators presented in this report have been expanded to include gonorrhea and six new causes of death in response to the results of a survey of county health officers and data managers assessing the value of reporting specific indicators. Small numbers and no incidence of new hepatitis C, measles, and syphilis cases in many of the state's counties lead to discontinuance of these health indicators. The Healthy People 2010 Objective targets have been updated to reflect the recommendations of the midcourse review.

We believe this report is an important tool to evaluate the health of Californians. The health status indicators are based on significant and readily available data to help guide the course of health promotion and preventive services.

Mark B Horton, MD, MSPH  
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Ann Lindsay, MD  
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Local Health Officers

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## INTRODUCTION

*County Health Status Profiles* has been published annually for the State of California since 1993. This report presents public health data that can be directly compared with clearly established benchmarks, such as national standards, and populations of similar composition. Appendix A (page 90) provides a comparison table of California's rates/percentages for selected health indicators, the target rates established for Healthy People 2010 (HP 2010) National Objectives, and the United States (U.S.) rates where available.

In keeping with the goal of using national standards, mortality causes of death data were coded using the International Classification of Diseases, Tenth Revision (ICD-10) and age-adjusted rates were calculated using the 2000 Standard Population. Please note that some of the HP 2010 Objective target rates were changed beginning with the 2006 Profiles publication in accordance with midcourse review recommendations. For additional information on the HP 2010 recommendations, visit the Centers for Disease Control and Prevention (CDC) online at <http://wonder.cdc.gov/data2010/obj.htm>.

This report contains vital statistics and morbidity tables that show the population, number of events, crude rates, and age-adjusted death rates (when applicable) or percentages by county. Also shown on these tables are the upper and lower 95 percent confidence limits, which provide a means for assessing the degree of stability of the estimated rates and percentages. Vital statistics rates and percentages are subject to random variation, which is inversely related to the number of events (e.g., deaths) used to calculate the rates and percentages. Therefore, standard errors and relative standard errors (coefficients of variation) are calculated to measure the reliability of the rates and percentages. Estimated rates and percentages that are categorized as unreliable (relative standard error  $\geq 23$  percent) are marked on these tables with an asterisk (\*). Rates, percentages, and confidence limits not calculated for zero events are shown as dashes (-).

Counties are ranked by rates or percentages based on the methodology described in the Technical Notes section (pages 80 to 89). Data limitations and qualifications are provided in the Technical Notes to assist the reader with interpretation and comparison of these data among the counties. For those who may want to learn more about the problems associated with analysis of vital events involving small numbers, small area analysis, and age-adjusted death rates, references to relevant statistical publications are located in the bibliography.

New in 2007 are thematic maps of California's 58 counties adding a visual comparison of rates or percentages from each table (excluding Table 30) along with the customary health status indicator highlights. Health indicators were changed this year based on survey responses from county health officers and county data managers concerning the value of continued reporting on indicators with a preponderance of unreliable rates and concerning the addition of new indicators valuable to public health monitoring and planning. Deaths due to Alzheimer's disease, chronic liver disease and cirrhosis, chronic lower respiratory disease, colorectal (colon) cancer, influenza/pneumonia, and prostate cancer as well as incidence of new gonorrhea cases were added to the 2007 Profiles publication as a result of the survey respondents' interest in these health indicators. Small numbers as well as

no incidence of new hepatitis C, measles, and primary/secondary syphilis cases in many of the state's counties have provided few reliable rates for a number of years, were deemed to have little value by respondents in evaluating the overall health of the counties, and were discontinued in this publication.

The following California Department of Public Health offices provided data for this report: Center for Health Statistics, Division of Communicable Disease Control, Genetic Disease Branch, Maternal, Child and Adolescent Health/Office of Family Planning Branch, and the Office of AIDS. In addition, the Demographic Research Unit of the Department of Finance provided 2004 race/ethnicity population estimates by county with age and sex detail. Estimates of persons under age 18 in 2004 who were below poverty are from the U.S. Census Bureau (<http://www.census.gov/hhes/www/saipe/>).

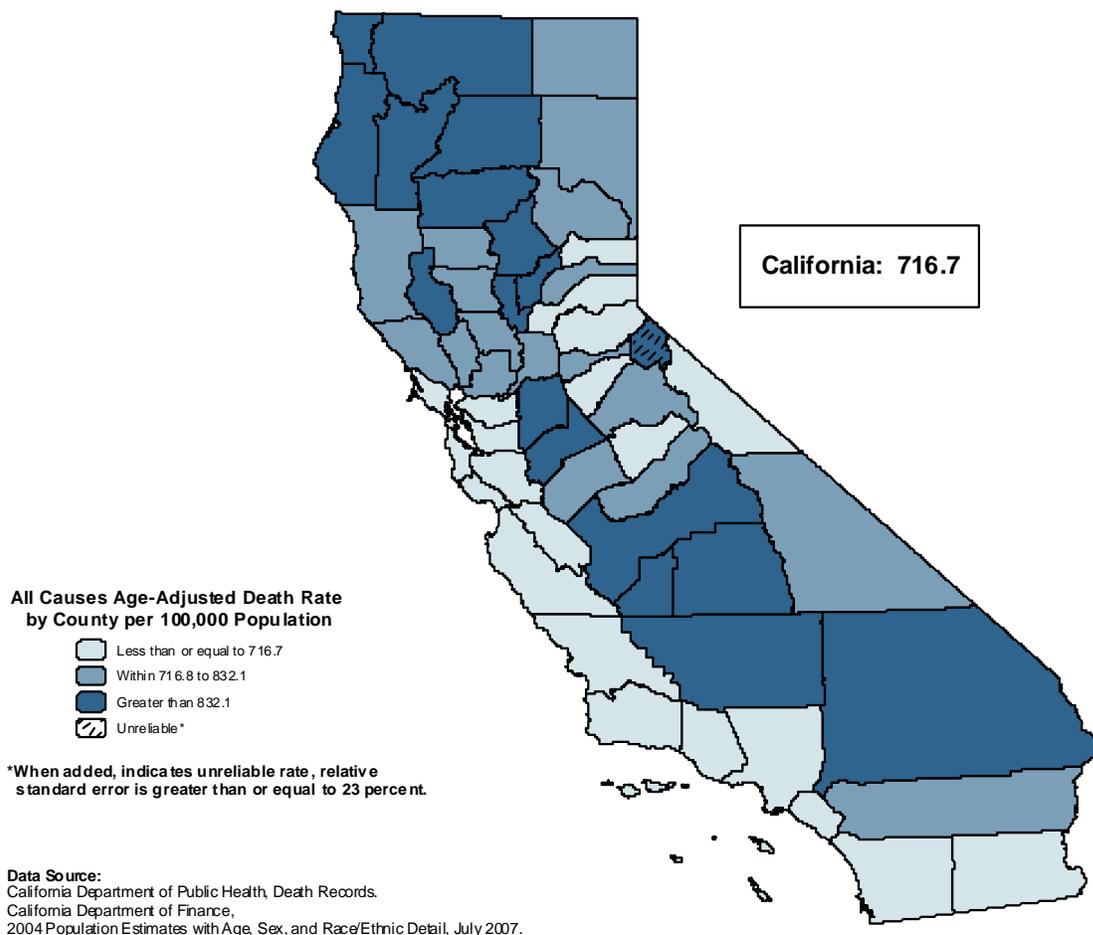
To access electronic copies of this report and prior reports, visit the California Department of Public Health, Center for Health Statistics site on the Internet at <http://www.dhs.ca.gov/OHIR/reports>.

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

California Department of Public Health  
Center for Health Statistics  
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Should you wish additional copies of the County Health Status Profiles, an order form and instructions for placing your order appear at the end of this report (page 92).

## DEATHS DUE TO ALL CAUSES, 2003-2005



The crude death rate from all causes for California was 646.1 deaths per 100,000 population, a risk of dying equivalent to approximately one death for every 155 persons. This rate was based on a three-year average number of deaths of 236,003.0 from 2003 to 2005, and a population of 36,525,947 as of July 1, 2004. Among counties with “reliable” rates, the crude rate ranged from 1,300.7 in Lake County to 349.7 in Mono County, a difference in rates by a factor of 3.7 to 1.

The age-adjusted death rate from all causes for California for the three-year period from 2003 to 2005 was 716.7 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 1,012.4 in Kern County to 413.3 in Mono County.

A Healthy People 2010 National Objective for deaths due to all causes has not been established.

**TABLE 1  
DEATHS DUE TO ALL CAUSES  
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE  
CALIFORNIA COUNTIES, 2003-2005**

RANK ORDER	COUNTY	2004 POPULATION	2003-2005 DEATHS (AVERAGE)	CRUDE DEATH RATE	AGE-ADJUSTED DEATH RATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
<b>HEALTHY PEOPLE 2010 NATIONAL OBJECTIVE:</b>					<b>NONE</b>		
1	MONO	13,727	48.0	349.7	413.3	289.6	537.0
2	SANTA CLARA	1,747,295	8,608.3	492.7	552.8	541.1	564.6
3	MARIN	251,812	1,786.3	709.4	561.7	535.2	588.2
4	SAN MATEO	720,229	4,674.7	649.1	597.6	580.3	614.8
5	SAN BENITO	57,307	260.0	453.7	616.8	540.6	693.0
6	MONTEREY	423,137	2,364.3	558.8	634.9	609.2	660.7
7	CALAVERAS	44,243	401.7	907.9	643.1	577.3	708.9
8	SANTA BARBARA	416,662	2,896.7	695.2	644.3	620.6	667.9
9	SAN LUIS OBISPO	259,709	2,054.0	790.9	646.4	618.2	674.6
10	ORANGE	3,038,670	16,959.7	558.1	647.2	637.4	657.0
11	SIERRA	3,716	36.7	986.7	648.5	422.5	874.6
12	SAN FRANCISCO	793,564	6,017.3	758.3	657.3	640.5	674.1
13	PLACER	302,199	2,304.0	762.4	676.5	648.8	704.3
14	LOS ANGELES	10,152,410	60,137.0	592.3	679.3	673.8	684.7
15	VENTURA	808,735	4,866.0	601.7	682.3	663.1	701.6
16	IMPERIAL	159,844	906.0	566.8	687.8	642.1	733.5
17	ALAMEDA	1,497,316	9,444.7	630.8	688.2	674.2	702.1
18	CONTRA COSTA	1,014,992	6,818.0	671.7	692.6	676.1	709.1
19	MARIPOSA	18,066	168.7	933.6	694.4	586.6	802.2
20	EL DORADO	172,320	1,250.3	725.6	698.2	658.9	737.4
21	SANTA CRUZ	259,942	1,647.3	633.7	699.8	665.3	734.4
22	SAN DIEGO	3,031,055	19,706.3	650.1	709.7	699.8	719.6
	<b>CALIFORNIA</b>	<b>36,525,947</b>	<b>236,003.0</b>	<b>646.1</b>	<b>716.7</b>	<b>713.8</b>	<b>719.6</b>
23	SONOMA	477,419	3,755.3	786.6	720.9	697.6	744.2
24	NEVADA	98,436	943.0	958.0	730.0	682.1	777.9
25	TUOLUMNE	57,186	601.7	1,052.1	743.0	681.6	804.3
26	COLUSA	20,927	142.0	678.5	746.7	623.5	869.9
27	NAPA	132,753	1,256.7	946.6	750.5	708.3	792.7
28	MADERA	139,398	932.0	668.6	751.1	702.7	799.6
29	AMADOR	37,507	392.7	1,046.9	753.1	676.8	829.5
30	PLUMAS	21,478	229.7	1,069.3	759.6	658.3	860.8
31	LASSEN	35,626	215.3	604.4	767.1	662.6	871.6
32	SOLANO	418,097	2,699.3	645.6	777.0	747.4	806.7
33	YOLO	186,751	1,154.7	618.3	798.3	752.0	844.7
34	SACRAMENTO	1,357,367	9,775.7	720.2	803.7	787.7	819.7
35	RIVERSIDE	1,845,185	13,664.3	740.5	814.5	800.8	828.2
36	GLENN	28,115	236.7	841.8	815.0	710.9	919.1
37	MODOC	10,178	110.0	1,080.8	818.8	662.5	975.2
38	INYO	18,923	223.0	1,178.5	822.3	710.7	933.9
39	MENDOCINO	89,966	840.0	933.7	825.8	769.3	882.2
40	MERCED	237,550	1,456.3	613.1	828.6	785.6	871.7
41	ALPINE	1,304	10.3	792.4 *	835.5 *	315.1	1,355.9
42	SISKIYOU	45,644	528.0	1,156.8	841.0	766.8	915.2
43	FRESNO	874,745	5,870.3	671.1	842.6	820.9	864.3
44	BUTTE	213,143	2,174.3	1,020.1	845.9	809.8	881.9
45	SUTTER	87,881	705.3	802.6	849.1	786.2	911.9
46	TRINITY	13,961	149.3	1,069.6	853.8	709.7	998.0
47	TULARE	406,003	2,709.0	667.2	856.4	823.9	888.9
48	SAN JOAQUIN	645,560	4,611.3	714.3	867.9	842.7	893.1
49	STANISLAUS	499,864	3,613.7	722.9	877.5	848.8	906.3
50	TEHAMA	59,942	613.0	1,022.7	879.3	809.2	949.3
51	SAN BERNARDINO	1,922,467	12,142.0	631.6	895.0	878.7	911.2
52	KINGS	143,970	802.0	557.1	903.7	839.3	968.0
53	SHASTA	177,465	1,874.0	1,056.0	927.5	885.2	969.8
54	DEL NORTE	29,162	275.0	943.0	953.8	840.6	1,067.0
55	HUMBOLDT	130,859	1,228.3	938.7	953.8	900.2	1,007.5
56	LAKE	62,994	819.3	1,300.7	969.6	901.3	1,038.0
57	YUBA	66,682	546.0	818.8	1,010.9	925.1	1,096.8
58	KERN	744,489	5,347.3	718.3	1,012.4	984.7	1,040.0

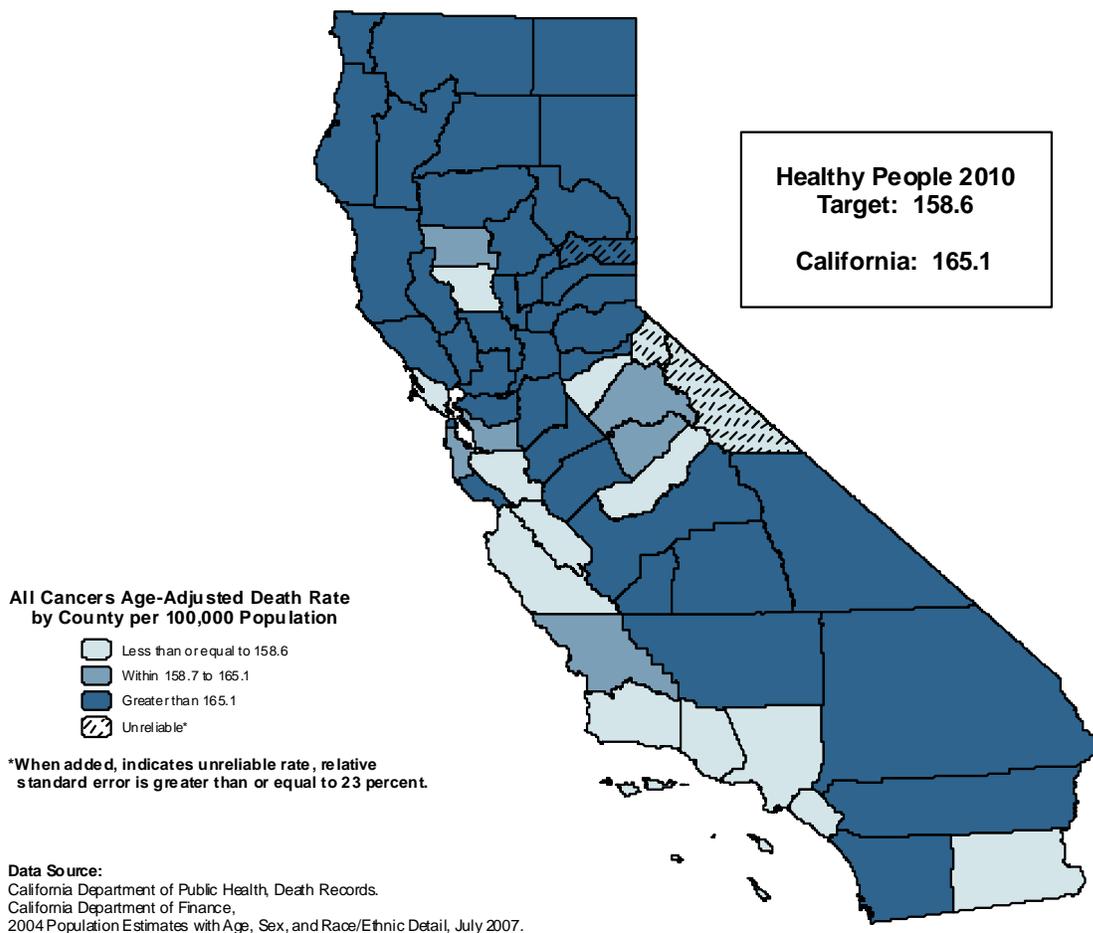
\* Death rate unreliable, relative standard error is greater than or equal to 23 percent.

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

Source: California Department of Public Health: Death Statistical Master Files, 2003-2005.

California Department of Finance: 2004 Population Estimates with Age, Sex, and Race/Ethnic Detail, July 2007.

## DEATHS DUE TO ALL CANCERS, 2003-2005



The crude death rate from all cancers for California was 148.4 deaths per 100,000 population, a risk of dying equivalent to approximately one death for every 674 persons. This rate was based on a three-year average number of deaths of 54,209.3 from 2003 to 2005 and a population of 36,525,947 as of July 1, 2004. Among counties with “reliable” rates, the crude rate ranged from 321.2 in Lake County to 98.3 in San Benito County, a difference in rates by a factor of 3.3 to 1.

The age-adjusted death rate from all cancers for California for the three-year period from 2003 to 2005 was 165.1 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 226.0 in Lake County to 132.3 in San Benito County.

Fourteen counties (twelve with reliable age-adjusted death rates) met the Healthy People 2010 National Objective 3-1 of no more than 158.6 age-adjusted deaths due to all cancers per 100,000 population. The statewide age-adjusted death rate for all cancers did not meet the national objective.

**TABLE 2  
DEATHS DUE TO ALL CANCERS  
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE  
CALIFORNIA COUNTIES, 2003-2005**

RANK ORDER	COUNTY	2004 POPULATION	2003-2005 DEATHS (AVERAGE)	CRUDE DEATH RATE	AGE-ADJUSTED DEATH RATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
1	MONO	13,727	9.7	70.4 *	76.8 *	25.5	128.2
2	ALPINE	1,304	1.3	102.2 *	111.5 *	0.0	304.6
3	SAN BENITO	57,307	56.3	98.3	132.3	97.2	167.4
4	SANTA CLARA	1,747,295	2,183.0	124.9	139.2	133.3	145.1
5	CALAVERAS	44,243	93.7	211.7	139.4	110.5	168.4
6	SANTA BARBARA	416,662	623.3	149.6	144.1	132.7	155.4
7	MONTEREY	423,137	540.0	127.6	148.1	135.6	160.6
8	COLUSA	20,927	28.0	133.8	150.1	94.4	205.9
9	ORANGE	3,038,670	4,030.0	132.6	153.5	148.7	158.2
10	MARIN	251,812	486.7	193.3	154.7	140.8	168.7
11	LOS ANGELES	10,152,410	13,655.3	134.5	154.8	152.2	157.4
12	VENTURA	808,735	1,116.3	138.0	155.1	146.0	164.3
13	IMPERIAL	159,844	206.0	128.9	155.9	134.5	177.4
14	MADERA	139,398	199.0	142.8	156.9	135.0	178.8
<b>HEALTHY PEOPLE 2010 NATIONAL OBJECTIVE (3-1)</b>					<b>158.6</b>		
15	SAN LUIS OBISPO	259,709	499.3	192.3	158.8	144.8	172.8
16	GLENN	28,115	46.0	163.6	159.5	113.3	205.7
17	TUOLUMNE	57,186	136.0	237.8	159.6	132.3	187.0
18	MARIPOSA	18,066	41.7	230.6	160.1	110.9	209.3
19	SAN MATEO	720,229	1,221.3	169.6	160.3	151.3	169.4
20	ALAMEDA	1,497,316	2,225.7	148.6	164.0	157.1	170.9
	<b>CALIFORNIA</b>	<b>36,525,947</b>	<b>54,209.3</b>	<b>148.4</b>	<b>165.1</b>	<b>163.7</b>	<b>166.5</b>
21	SAN FRANCISCO	793,564	1,478.7	186.3	165.6	157.1	174.1
22	EL DORADO	172,320	313.0	181.6	166.5	147.8	185.2
23	CONTRA COSTA	1,014,992	1,660.3	163.6	166.9	158.8	175.0
24	FRESNO	874,745	1,162.7	132.9	168.3	158.6	178.0
25	SAN DIEGO	3,031,055	4,670.0	154.1	170.6	165.6	175.5
26	SUTTER	87,881	144.0	163.9	170.8	142.8	198.8
27	SANTA CRUZ	259,942	387.0	148.9	171.7	154.2	189.2
28	PLACER	302,199	582.3	192.7	171.8	157.8	185.8
29	MERCED	237,550	303.7	127.8	172.4	152.9	191.9
30	NEVADA	98,436	235.0	238.7	173.1	150.5	195.6
31	MODOC	10,178	24.0	235.8	173.5	103.5	243.5
32	TULARE	406,003	549.3	135.3	174.9	160.2	189.6
33	LASSEN	35,626	50.7	142.2	176.7	127.3	226.1
34	YOLO	186,751	259.3	138.9	178.9	157.0	200.9
35	SIERRA	3,716	10.3	278.1 *	180.8 *	67.6	293.9
36	SONOMA	477,419	920.7	192.8	180.9	169.1	192.7
37	SACRAMENTO	1,357,367	2,228.3	164.2	181.9	174.3	189.5
38	BUTTE	213,143	457.3	214.6	182.3	165.4	199.2
39	SOLANO	418,097	650.7	155.6	182.8	168.6	197.0
40	AMADOR	37,507	101.3	270.2	183.2	147.3	219.0
41	RIVERSIDE	1,845,185	3,056.0	165.6	183.2	176.7	189.7
42	SAN JOAQUIN	645,560	973.0	150.7	183.8	172.2	195.4
43	INYO	18,923	50.3	266.0	185.0	133.0	236.9
44	SAN BERNARDINO	1,922,467	2,557.3	133.0	185.2	177.9	192.5
45	TRINITY	13,961	37.3	267.4	185.3	125.0	245.6
46	STANISLAUS	499,864	767.7	153.6	186.2	173.0	199.4
47	KINGS	143,970	169.3	117.6	187.3	158.5	216.2
48	MENDOCINO	89,966	197.3	219.3	190.1	163.4	216.9
49	TEHAMA	59,942	138.0	230.2	193.9	161.4	226.4
50	NAPA	132,753	317.7	239.3	197.6	175.6	219.5
51	KERN	744,489	1,075.7	144.5	198.8	186.8	210.8
52	SISKIYOU	45,644	130.3	285.5	200.9	165.7	236.0
53	SHASTA	177,465	428.0	241.2	204.0	184.6	223.4
54	HUMBOLDT	130,859	267.3	204.3	204.3	179.6	228.9
55	PLUMAS	21,478	65.7	305.7	208.6	156.6	260.6
56	DEL NORTE	29,162	65.3	224.0	224.4	169.8	278.9
57	YUBA	66,682	123.3	185.0	224.6	184.6	264.6
58	LAKE	62,994	202.3	321.2	226.0	194.3	257.8

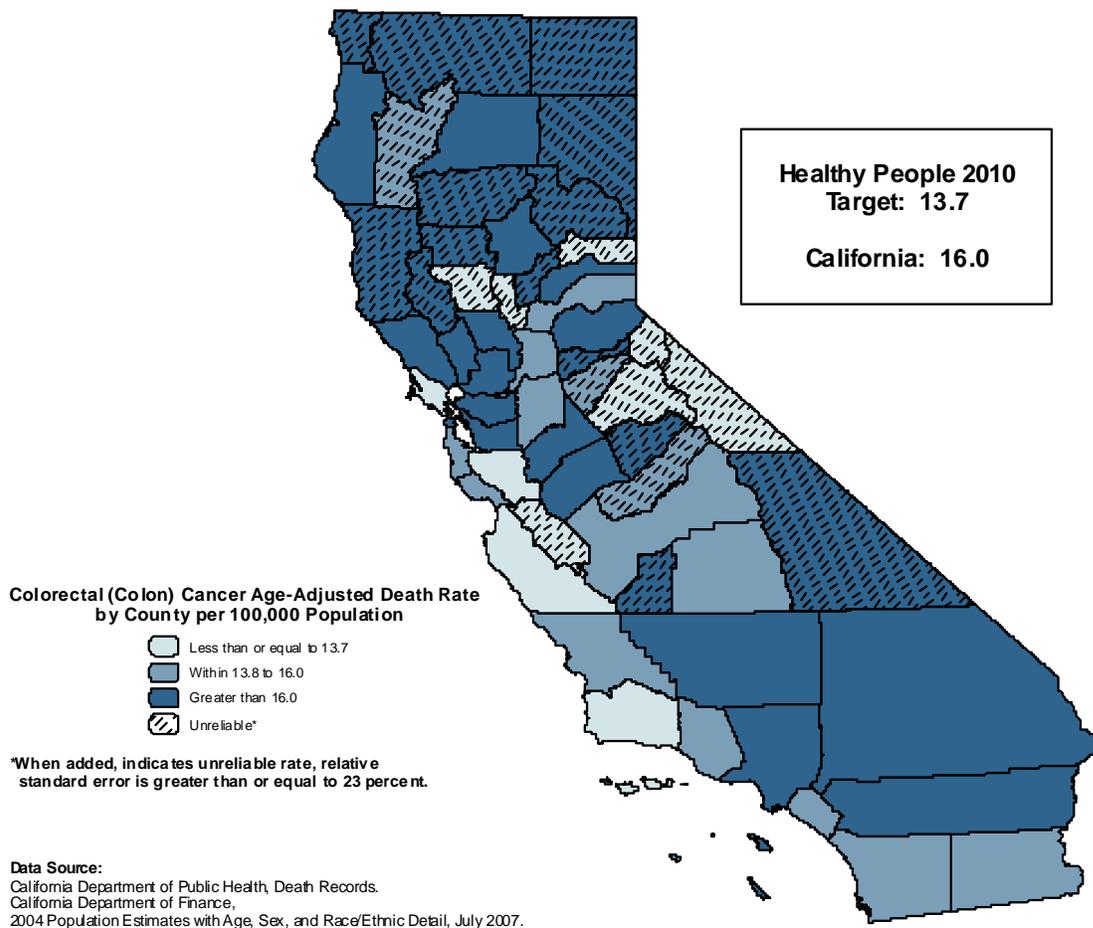
\* Death rate unreliable, relative standard error is greater than or equal to 23 percent.

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

Source: California Department of Public Health: Death Statistical Master Files, 2003-2005.

California Department of Finance: 2004 Population Estimates with Age, Sex, and Race/Ethnic Detail, July 2007.

## DEATHS DUE TO COLORECTAL (COLON) CANCER, 2003-2005



The crude death rate from colorectal (colon) cancer for California was 14.3 deaths per 100,000 population, a risk of dying equivalent to approximately one death for every 6,976 persons. This rate was based on a three-year average number of deaths of 5,235.7 from 2003 to 2005 and a population of 36,525,947 as of July 1, 2004. Among counties with “reliable” rates, the crude rate ranged from 24.9 in Napa County to 10.7 in Monterey County, a difference in rates by a factor of 2.3 to 1.

The age-adjusted death rate from colorectal (colon) cancer for California for the three-year period from 2003 to 2005 was 16.0 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 20.2 in Shasta County to 11.9 in Santa Barbara and Santa Clara Counties.

Eleven counties (four with reliable age-adjusted death rates) met the Healthy People 2010 National Objective 3-5 of no more than 13.7 age-adjusted deaths due to colorectal (colon) cancer per 100,000 population. The statewide age-adjusted death rate for colorectal (colon) cancer did not meet the national objective.

**TABLE 3  
DEATHS DUE TO COLORECTAL (COLON) CANCER  
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE  
CALIFORNIA COUNTIES, 2003-2005**

RANK ORDER	COUNTY	2004 POPULATION	2003-2005 DEATHS (AVERAGE)	CRUDE DEATH RATE	AGE-ADJUSTED DEATH RATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
1	ALPINE	1,304	0.0	-	-	-	-
2	MONO	13,727	1.0	7.3 *	9.1 *	0.0	28.1
3	COLUSA	20,927	2.0	9.6 *	10.7 *	0.0	25.5
4	SAN BENITO	57,307	4.7	8.1 *	10.7 *	0.8	20.6
5	SUTTER	87,881	9.3	10.6 *	11.2 *	4.0	18.5
6	SANTA BARBARA	416,662	52.0	12.5	11.9	8.6	15.1
7	SANTA CLARA	1,747,295	189.0	10.8	11.9	10.2	13.6
8	SIERRA	3,716	0.7	17.9 *	12.1 *	0.0	41.2
9	MARIN	251,812	39.7	15.8	12.5	8.6	16.4
10	MONTEREY	423,137	45.3	10.7	12.6	8.9	16.3
11	TUOLUMNE	57,186	11.0	19.2 *	12.7 *	5.2	20.2
<b>HEALTHY PEOPLE 2010 NATIONAL OBJECTIVE (3-5)</b>					<b>13.7</b>		
12	CALAVERAS	44,243	8.7	19.6 *	13.8 *	4.3	23.3
13	PLACER	302,199	47.3	15.7	14.1	10.0	18.1
14	ORANGE	3,038,670	385.3	12.7	14.7	13.3	16.2
15	SANTA CRUZ	259,942	35.0	13.5	14.9	9.8	19.9
16	SAN LUIS OBISPO	259,709	47.3	18.2	14.9	10.7	19.2
17	SAN MATEO	720,229	116.3	16.2	15.0	12.3	17.8
18	MADERA	139,398	19.0	13.6	15.1 *	8.3	21.9
19	SACRAMENTO	1,357,367	186.7	13.8	15.4	13.1	17.6
20	SAN DIEGO	3,031,055	425.7	14.0	15.5	14.1	17.0
21	SAN JOAQUIN	645,560	82.3	12.8	15.6	12.2	18.9
22	FRESNO	874,745	106.7	12.2	15.6	12.6	18.6
23	TRINITY	13,961	3.3	23.9 *	15.7 *	0.0	32.7
24	VENTURA	808,735	112.0	13.8	15.7	12.8	18.6
25	IMPERIAL	159,844	21.3	13.3	15.9	9.1	22.7
26	TULARE	406,003	49.7	12.2	16.0	11.5	20.4
<b>CALIFORNIA</b>		<b>36,525,947</b>	<b>5,235.7</b>	<b>14.3</b>	<b>16.0</b>	<b>15.6</b>	<b>16.4</b>
27	CONTRA COSTA	1,014,992	159.0	15.7	16.1	13.5	18.6
28	MERCED	237,550	28.0	11.8	16.2	10.1	22.2
29	EL DORADO	172,320	30.0	17.4	16.2	10.4	22.1
30	LOS ANGELES	10,152,410	1,425.0	14.0	16.2	15.4	17.1
31	BUTTE	213,143	41.7	19.5	16.4	11.3	21.4
32	YOLO	186,751	23.7	12.7	16.4	9.7	23.0
33	SAN FRANCISCO	793,564	150.0	18.9	16.5	13.8	19.1
34	SISKIYOU	45,644	11.0	24.1 *	16.6 *	6.8	26.4
35	STANISLAUS	499,864	68.3	13.7	16.6	12.6	20.5
36	ALAMEDA	1,497,316	224.0	15.0	16.6	14.4	18.8
37	GLENN	28,115	5.0	17.8 *	17.3 *	2.1	32.5
38	AMADOR	37,507	9.7	25.8 *	17.6 *	6.5	28.7
39	DEL NORTE	29,162	5.0	17.1 *	17.9 *	2.2	33.5
40	INYO	18,923	4.7	24.7 *	17.9 *	1.3	34.5
41	RIVERSIDE	1,845,185	298.7	16.2	18.0	15.9	20.0
42	NEVADA	98,436	24.3	24.7	18.3	10.9	25.8
43	SOLANO	418,097	64.0	15.3	18.4	13.9	23.0
44	MARIPOSA	18,066	5.0	27.7 *	18.7 *	2.3	35.1
45	MENDOCINO	89,966	18.7	20.7 *	18.8 *	10.2	27.5
46	MODOC	10,178	2.7	26.2 *	19.0 *	0.0	41.8
47	LAKE	62,994	17.0	27.0 *	19.0 *	9.9	28.2
48	SAN BERNARDINO	1,922,467	257.7	13.4	19.1	16.7	21.5
49	KINGS	143,970	17.3	12.0 *	19.3 *	10.0	28.5
50	KERN	744,489	103.7	13.9	19.5	15.7	23.3
51	SONOMA	477,419	100.7	21.1	19.6	15.7	23.5
52	HUMBOLDT	130,859	25.0	19.1	19.8	12.0	27.7
53	NAPA	132,753	33.0	24.9	20.0	13.1	26.9
54	SHASTA	177,465	42.7	24.0	20.2	14.1	26.3
55	PLUMAS	21,478	6.3	29.5 *	20.8 *	4.1	37.4
56	YUBA	66,682	11.0	16.5 *	20.8 *	8.4	33.2
57	LASSEN	35,626	6.0	16.8 *	21.3 *	4.1	38.6
58	TEHAMA	59,942	15.7	26.1 *	21.6 *	10.9	32.4

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

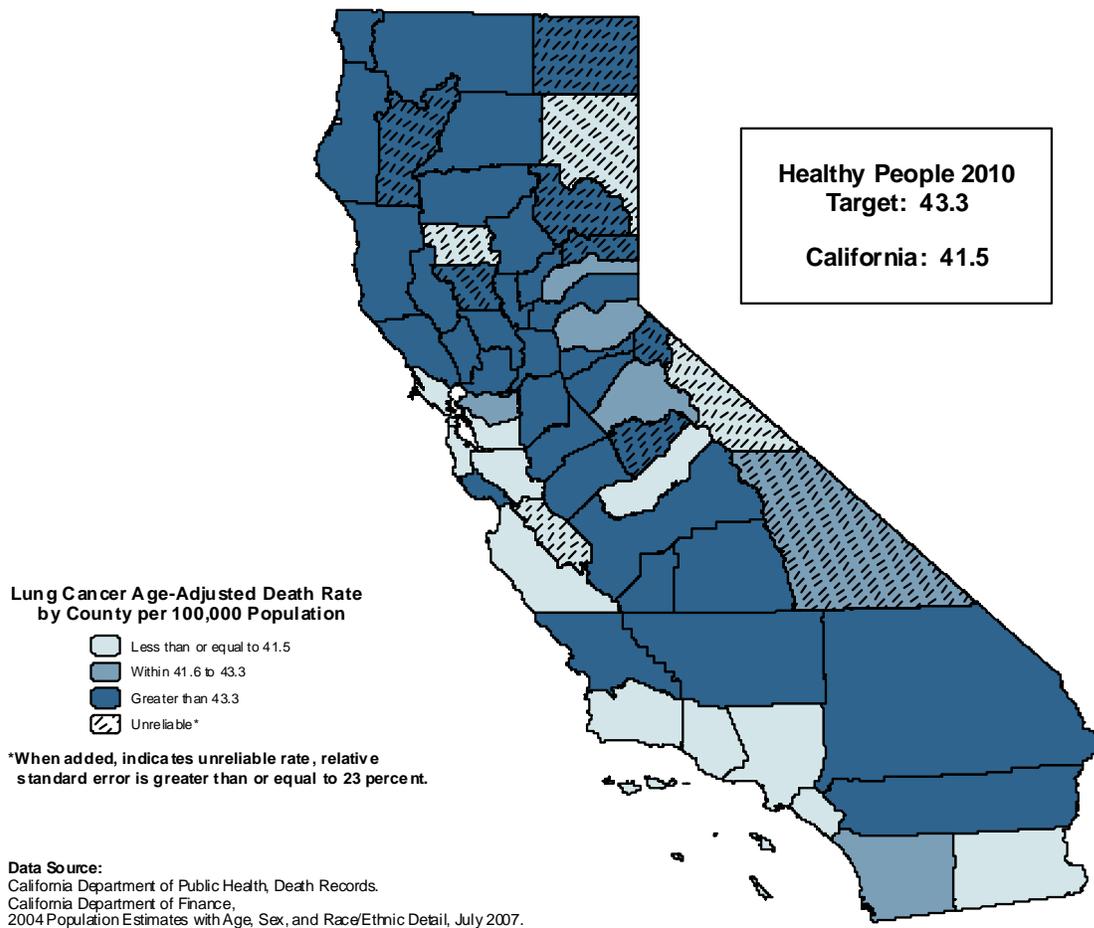
\* Death rate unreliable, relative standard error is greater than or equal to 23 percent.

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

Source: California Department of Public Health: Death Statistical Master Files, 2003-2005.

California Department of Finance: 2004 Population Estimates with Age, Sex, and Race/Ethnic Detail, July 2007.

## DEATHS DUE TO LUNG CANCER, 2003-2005



The crude death rate from lung cancer for California was 36.9 deaths per 100,000 population, a risk of dying equivalent to approximately one death for every 2,713 persons. This rate was based on the three-year average number of deaths of 13,463.7 from 2003 to 2005 and a population of 36,525,947 as of July 1, 2004. Among counties with “reliable” rates, the crude rate ranged from 111.7 in Lake County to 28.8 in Santa Clara County, a difference in rates by a factor of 3.9 to 1.

The age-adjusted death rate from lung cancer for California for the three-year period from 2003 to 2005 was 41.5 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 75.0 in Lake County to 32.6 in Santa Clara County.

Twenty-two counties (seventeen with reliable age-adjusted death rates) and California as a whole met the Healthy People 2010 National Objective 3-2 of no more than 43.3 age-adjusted deaths due to lung cancer per 100,000 population.

**TABLE 4  
DEATHS DUE TO LUNG CANCER  
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE  
CALIFORNIA COUNTIES, 2003-2005**

RANK ORDER	COUNTY	2004 POPULATION	2003-2005 DEATHS (AVERAGE)	CRUDE DEATH RATE	AGE-ADJUSTED DEATH RATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
1	MONO	13,727	2.7	19.4 *	20.2 *	0.0	45.6
2	SAN BENITO	57,307	11.3	19.8 *	26.8 *	11.0	42.6
3	SANTA CLARA	1,747,295	503.3	28.8	32.6	29.7	35.4
4	SANTA BARBARA	416,662	147.3	35.4	34.2	28.7	39.8
5	LOS ANGELES	10,152,410	3,075.7	30.3	35.4	34.2	36.7
6	MARIN	251,812	109.3	43.4	35.8	29.0	42.6
7	GLENN	28,115	10.3	36.8 *	36.0 *	14.0	58.0
8	ORANGE	3,038,670	947.0	31.2	36.7	34.4	39.1
9	MONTEREY	423,137	134.3	31.7	37.3	30.9	43.6
10	SAN MATEO	720,229	281.0	39.0	37.4	33.0	41.8
11	LASSEN	35,626	10.7	29.9 *	37.7 *	14.8	60.5
12	IMPERIAL	159,844	49.3	30.9	37.9	27.2	48.5
13	VENTURA	808,735	276.0	34.1	39.1	34.4	43.7
14	MADERA	139,398	50.0	35.9	39.9	28.8	51.0
15	SAN FRANCISCO	793,564	361.7	45.6	40.8	36.6	45.0
16	ALAMEDA	1,497,316	552.7	36.9	41.4	37.9	44.9
	<b>CALIFORNIA</b>	<b>36,525,947</b>	<b>13,463.7</b>	<b>36.9</b>	<b>41.5</b>	<b>40.8</b>	<b>42.2</b>
17	TUOLUMNE	57,186	36.3	63.5	42.0	28.1	55.9
18	NEVADA	98,436	59.3	60.3	42.4	31.6	53.2
19	EL DORADO	172,320	79.3	46.0	42.6	33.1	52.0
20	SAN DIEGO	3,031,055	1,148.7	37.9	42.6	40.1	45.1
21	CONTRA COSTA	1,014,992	425.0	41.9	42.9	38.8	47.0
22	INYO	18,923	12.3	65.2 *	43.1 *	19.0	67.2
	<b>HEALTHY PEOPLE 2010 NATIONAL OBJECTIVE (3-2)</b>				<b>43.3</b>		
23	CALAVERAS	44,243	31.0	70.1	43.8	28.1	59.4
24	SAN LUIS OBISPO	259,709	140.0	53.9	44.4	37.0	51.8
25	FRESNO	874,745	304.7	34.8	44.8	39.8	49.9
26	MENDOCINO	89,966	46.0	51.1	45.1	32.0	58.2
27	PLACER	302,199	154.3	51.1	45.4	38.3	52.6
28	SANTA CRUZ	259,942	98.7	38.0	45.6	36.4	54.8
29	MERCED	237,550	80.7	34.0	45.9	35.8	56.0
30	AMADOR	37,507	26.3	70.2	46.3	28.5	64.0
31	TULARE	406,003	147.0	36.2	47.2	39.5	54.8
32	SOLANO	418,097	170.0	40.7	48.0	40.7	55.3
33	SONOMA	477,419	239.7	50.2	48.2	42.0	54.4
34	SAN BERNARDINO	1,922,467	656.7	34.2	48.2	44.5	52.0
35	PLUMAS	21,478	16.0	74.5 *	48.3 *	24.5	72.1
36	MARIPOSA	18,066	13.0	72.0 *	49.0 *	22.1	76.0
37	ALPINE	1,304	0.7	51.1 *	49.2 *	0.0	171.4
38	RIVERSIDE	1,845,185	830.7	45.0	49.9	46.5	53.3
39	YOLO	186,751	72.0	38.6	50.2	38.5	61.8
40	SACRAMENTO	1,357,367	609.7	44.9	50.2	46.2	54.2
41	KINGS	143,970	43.7	30.3	50.2	35.1	65.3
42	SUTTER	87,881	43.3	49.3	51.3	36.0	66.6
43	NAPA	132,753	82.7	62.3	51.9	40.6	63.2
44	SAN JOAQUIN	645,560	277.7	43.0	53.0	46.7	59.2
45	KERN	744,489	285.3	38.3	53.1	46.8	59.3
46	BUTTE	213,143	133.3	62.6	53.4	44.3	62.6
47	STANISLAUS	499,864	219.3	43.9	53.6	46.5	60.7
48	COLUSA	20,927	10.0	47.8 *	54.0 *	20.5	87.5
49	HUMBOLDT	130,859	75.3	57.6	56.3	43.5	69.2
50	SIERRA	3,716	3.3	89.7 *	56.6 *	0.0	117.8
51	TEHAMA	59,942	42.3	70.6	59.1	41.3	77.0
52	MODOC	10,178	8.3	81.9 *	59.2 *	18.4	100.0
53	SISKIYOU	45,644	40.3	88.4	61.0	42.0	80.1
54	TRINITY	13,961	12.7	90.7 *	61.5 *	27.3	95.7
55	YUBA	66,682	35.7	53.5	64.0	42.9	85.1
56	SHASTA	177,465	138.7	78.1	65.3	54.4	76.2
57	DEL NORTE	29,162	20.7	70.9	71.2	40.4	102.0
58	LAKE	62,994	70.3	111.7	75.0	57.3	92.7

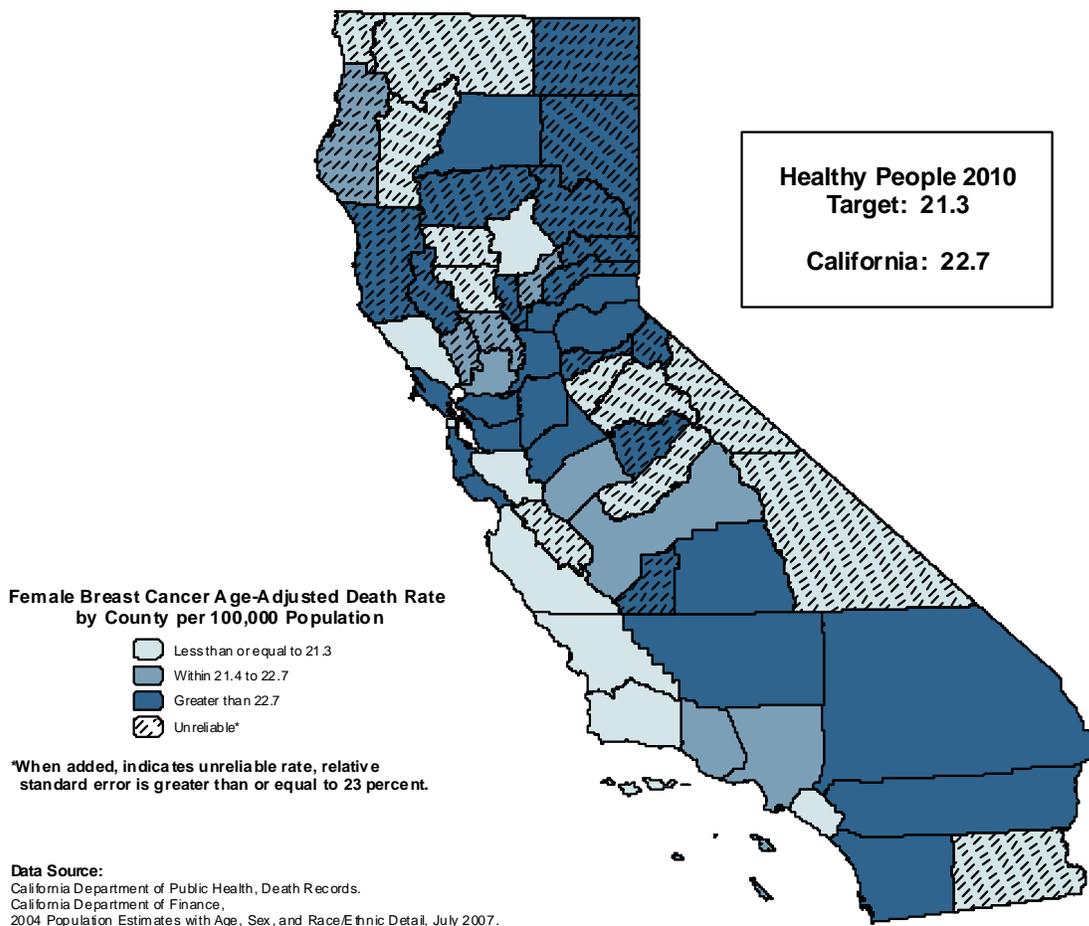
\* Death rate unreliable, relative standard error is greater than or equal to 23 percent.

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

Source: California Department of Public Health: Death Statistical Master Files, 2003-2005.

California Department of Finance: 2004 Population Estimates with Age, Sex, and Race/Ethnic Detail, July 2007.

## DEATHS DUE TO FEMALE BREAST CANCER, 2003-2005



The crude death rate from female breast cancer for California was 22.9 deaths per 100,000 population, a risk of dying equivalent to approximately one death for every 4,373 females. This rate was based on a three-year average number of deaths of 4,184.0 from 2003 to 2005 and a female population of 18,297,303 as of July 1, 2004. Among counties with “reliable” rates, the crude rate ranged from 36.0 in Marin County to 18.3 in Monterey County, a difference in rates by a factor of 2.0 to 1.

The age-adjusted death rate from female breast cancer for California for the three-year period from 2003 to 2005 was 22.7 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 27.1 in Santa Cruz County to 16.6 in Butte County.

Twenty counties (eight with reliable age-adjusted death rates) met the Healthy People 2010 National Objective 3-3 of no more than 21.3 age-adjusted deaths due to female breast cancer per 100,000 population. The statewide age-adjusted death rate for female breast cancer did not meet the national objective.

**TABLE 5  
DEATHS DUE TO FEMALE BREAST CANCER  
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE  
CALIFORNIA COUNTIES, 2003-2005**

RANK ORDER	COUNTY	2004 FEMALE POPULATION	2003-2005 DEATHS (AVERAGE)	CRUDE DEATH RATE	AGE-ADJUSTED DEATH RATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
1	GLENN	13,892	1.3	9.6 *	8.3 *	0.0	22.9
2	COLUSA	10,267	1.0	9.7 *	10.4 *	0.0	30.8
3	INYO	9,560	2.0	20.9 *	12.6 *	0.0	30.4
4	MONO	6,292	0.7	10.6 *	13.3 *	0.0	47.2
5	DEL NORTE	13,112	2.3	17.8 *	14.4 *	0.0	33.0
6	BUTTE	108,444	22.7	20.9	16.6	9.6	23.7
7	MADERA	72,254	12.7	17.5 *	18.4 *	8.2	28.5
8	SANTA CLARA	862,220	165.0	19.1	18.6	15.8	21.5
9	MONTEREY	205,614	37.7	18.3	18.8	12.8	24.8
10	CALAVERAS	22,312	6.7	29.9 *	18.9 *	4.0	33.7
11	TRINITY	6,856	2.0	29.2 *	19.2 *	0.0	46.1
12	SANTA BARBARA	207,704	44.7	21.5	19.3	13.5	25.0
13	SAN BENITO	28,286	4.3	15.3 *	19.9 *	1.0	38.8
14	SONOMA	241,926	58.3	24.1	20.1	14.8	25.3
15	ORANGE	1,529,228	309.0	20.2	20.4	18.2	22.7
16	SAN FRANCISCO	387,989	98.7	25.4	20.8	16.6	25.0
17	TUOLUMNE	27,136	8.3	30.7 *	20.9 *	5.7	36.0
18	SAN LUIS OBISPO	126,732	35.0	27.6	20.9	13.8	28.0
19	SISKIYOU	23,255	6.3	27.2 *	21.0 *	3.7	38.3
20	IMPERIAL	75,712	15.0	19.8 *	21.3 *	10.5	32.1
<b>HEALTHY PEOPLE 2010 NATIONAL OBJECTIVE (3-3)</b>					<b>21.3</b>		
21	SOLANO	207,410	43.7	21.1	21.5	15.1	27.8
22	HUMBOLDT	66,025	15.7	23.7 *	21.7 *	10.9	32.5
23	YUBA	33,076	6.7	20.2 *	21.7 *	5.2	38.3
24	FRESNO	435,225	83.3	19.1	21.8	17.1	26.5
25	MERCED	118,024	21.7	18.4	22.0	12.7	31.3
26	YOLO	94,992	18.0	18.9 *	22.0 *	11.8	32.3
27	VENTURA	403,047	91.3	22.7	22.4	17.8	27.0
28	NAPA	66,547	19.7	29.6	22.5 *	12.2	32.8
29	LOS ANGELES	5,108,508	1,134.3	22.2	22.6	21.3	24.0
	<b>CALIFORNIA</b>	<b>18,297,303</b>	<b>4,184.0</b>	<b>22.9</b>	<b>22.7</b>	<b>22.0</b>	<b>23.4</b>
30	ALAMEDA	763,321	179.3	23.5	22.9	19.5	26.2
31	EL DORADO	86,293	23.7	27.4	22.9	13.5	32.3
32	NEVADA	49,454	17.3	35.0 *	23.2 *	12.2	34.2
33	SAN DIEGO	1,508,925	357.7	23.7	23.2	20.8	25.6
34	SAN MATEO	363,015	100.0	27.5	23.4	18.8	28.0
35	TULARE	202,596	41.0	20.2	23.5	16.3	30.7
36	CONTRA COSTA	517,284	135.0	26.1	23.7	19.7	27.7
37	TEHAMA	30,260	9.0	29.7 *	24.2 *	8.1	40.2
38	SUTTER	44,410	11.3	25.5 *	24.2 *	10.0	38.4
39	SACRAMENTO	691,547	170.7	24.7	24.6	20.9	28.3
40	PLACER	154,607	45.3	29.3	24.7	17.4	31.9
41	SAN JOAQUIN	323,612	72.7	22.5	24.8	19.1	30.5
42	RIVERSIDE	926,373	228.7	24.7	25.1	21.8	28.4
43	SHASTA	90,506	29.0	32.0	25.2	15.9	34.5
44	STANISLAUS	254,288	58.0	22.8	25.3	18.8	31.8
45	MARIN	127,021	45.7	36.0	25.7	18.1	33.3
46	KERN	363,017	78.3	21.6	25.9	20.1	31.6
47	SAN BERNARDINO	962,354	211.3	22.0	26.2	22.7	29.8
48	MARIPOSA	8,842	3.0	33.9 *	26.7 *	0.0	58.2
49	KINGS	62,251	13.3	21.4 *	27.0 *	12.4	41.5
50	SANTA CRUZ	130,188	35.3	27.1	27.1	17.9	36.3
51	PLUMAS	10,795	4.3	40.1 *	27.3 *	0.6	54.0
52	LASSEN	13,427	4.0	29.8 *	27.4 *	0.3	54.4
53	MENDOCINO	45,111	16.3	36.2 *	28.2 *	14.3	42.0
54	MODOC	5,023	2.0	39.8 *	28.9 *	0.0	69.3
55	AMADOR	16,958	8.0	47.2 *	31.1 *	8.9	53.3
56	LAKE	31,716	14.3	45.2 *	31.6 *	14.8	48.3
57	SIERRA	1,838	1.0	54.4 *	34.6 *	0.0	104.3
58	ALPINE	626	0.3	53.2 *	74.7 *	0.0	328.5

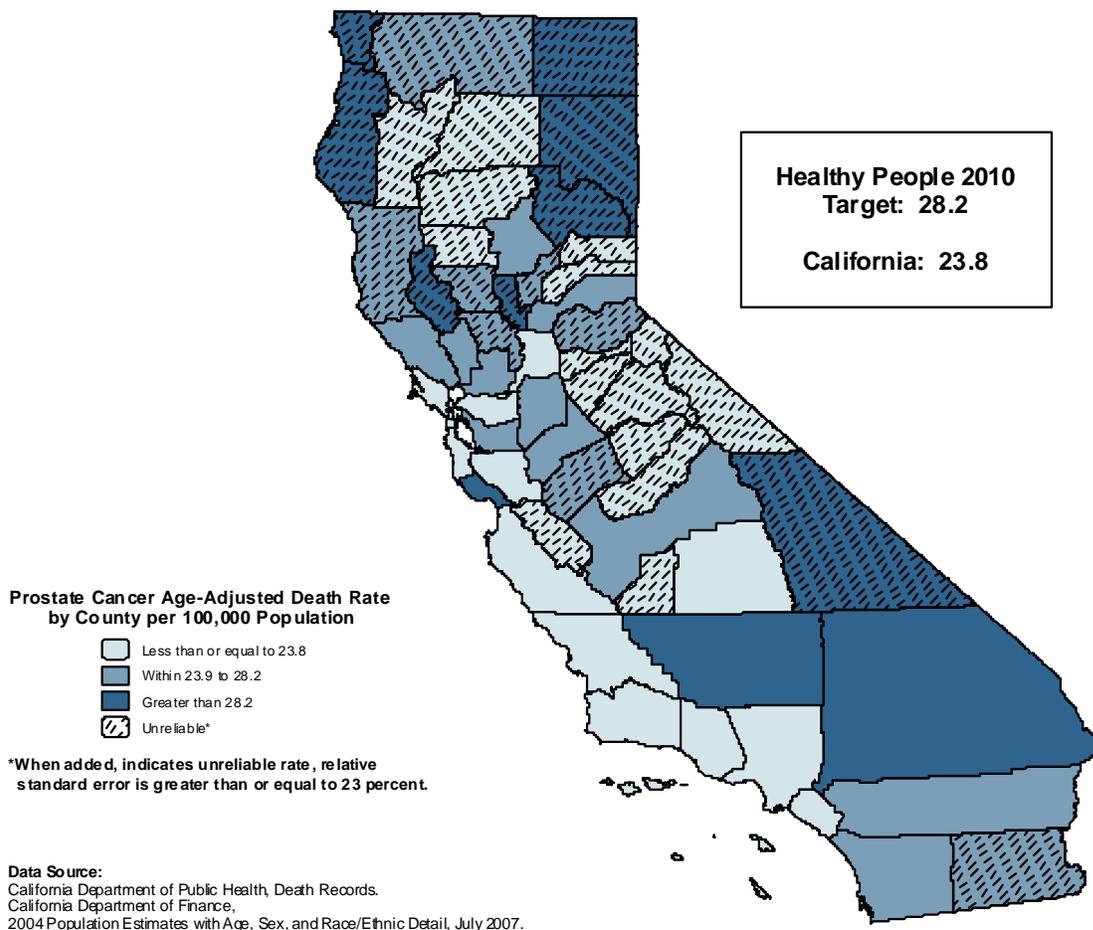
\* Death rate unreliable, relative standard error is greater than or equal to 23 percent.

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

Source: California Department of Public Health: Death Statistical Master Files, 2003-2005.

California Department of Finance: 2004 Population Estimates with Age, Sex, and Race/Ethnic Detail, July 2007.

## DEATHS DUE TO PROSTATE CANCER, 2003-2005



The crude death rate from prostate cancer for California was 16.5 deaths per 100,000 population, a risk of dying equivalent to approximately one death for every 6,045 males. This rate was based on a three-year average number of deaths of 3,015.3 from 2003 to 2005 and a male population of 18,228,644 as of July 1, 2004. Among counties with “reliable” rates, the crude rate ranged from 29.2 in Napa County to 13.2 in Santa Clara County, a difference in rates by a factor of 2.2 to 1.

The age-adjusted death rate from prostate cancer for California for the three-year period from 2003 to 2005 was 23.8 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 30.0 in Kern County to 18.9 in San Francisco County.

Forty-seven counties (twenty-four with reliable age-adjusted death rates) and California as a whole met the Healthy People 2010 National Objective 3-7 of no more than 28.2 age-adjusted deaths due to prostate cancer per 100,000 population.

**TABLE 6  
MALE DEATHS DUE TO PROSTATE CANCER  
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE  
CALIFORNIA COUNTIES, 2003-2005**

RANK ORDER	COUNTY	2004 MALE POPULATION	2003-2005 DEATHS (AVERAGE)	CRUDE DEATH RATE	AGE-ADJUSTED DEATH RATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
1	ALPINE	678	0.0	-	-	-	-
2	SIERRA	1,878	0.3	17.7 *	10.1 *	0.0	44.5
3	MONO	7,435	0.7	9.0 *	12.4 *	0.0	42.7
4	SAN BENITO	29,021	2.3	8.0 *	12.7 *	0.0	29.7
5	TUOLUMNE	30,050	5.3	17.7 *	13.9 *	1.9	25.9
6	MARIPOSA	9,224	1.7	18.1 *	14.1 *	0.0	35.5
7	SAN FRANCISCO	405,575	69.7	17.2	18.9	14.4	23.3
8	TRINITY	7,105	1.7	23.5 *	19.2 *	0.0	49.0
9	GLENN	14,223	2.3	16.4 *	19.2 *	0.0	43.9
10	KINGS	81,719	6.0	7.3 *	19.5 *	3.5	35.5
11	SANTA CLARA	885,075	116.7	13.2	19.6	16.0	23.2
12	NEVADA	48,982	11.7	23.8 *	20.1 *	8.4	31.9
13	SHASTA	86,959	17.3	19.9 *	20.2 *	10.5	29.8
14	MONTEREY	217,523	30.0	13.8	20.5	13.2	27.8
15	VENTURA	405,688	57.0	14.1	21.0	15.5	26.5
16	AMADOR	20,549	4.7	22.7 *	21.1 *	1.6	40.5
17	SAN LUIS OBISPO	132,977	28.7	21.6	21.1	13.3	28.8
18	SAN MATEO	357,214	64.7	18.1	21.4	16.2	26.6
19	SANTA BARBARA	208,958	40.0	19.1	22.1	15.2	28.9
20	LOS ANGELES	5,043,902	744.7	14.8	22.1	20.5	23.7
21	CONTRA COSTA	497,708	82.3	16.5	22.1	17.3	27.0
22	TULARE	203,407	27.3	13.4	22.6	14.0	31.1
23	CALAVERAS	21,931	7.0	31.9 *	23.2 *	5.7	40.7
24	MARIN	124,791	29.7	23.8	23.3	14.9	31.8
25	ORANGE	1,509,442	227.3	15.1	23.4	20.3	26.5
26	TEHAMA	29,682	7.0	23.6 *	23.6 *	5.9	41.3
27	SACRAMENTO	665,820	108.3	16.3	23.6	19.1	28.1
28	MADERA	67,144	11.7	17.4 *	23.7 *	9.8	37.6
<b>CALIFORNIA</b>		<b>18,228,644</b>	<b>3,015.3</b>	<b>16.5</b>	<b>23.8</b>	<b>22.9</b>	<b>24.6</b>
29	MERCED	119,526	15.7	13.1 *	23.9 *	11.9	35.9
30	MENDOCINO	44,855	10.3	23.0 *	23.9 *	9.1	38.7
31	STANISLAUS	245,576	38.0	15.5	24.7	16.7	32.6
32	BUTTE	104,699	27.0	25.8	24.7	15.4	34.0
33	SOLANO	210,687	33.3	15.8	24.8	16.2	33.4
34	IMPERIAL	84,132	13.7	16.2 *	24.9 *	11.4	38.5
35	PLACER	147,592	35.0	23.7	25.3	16.9	33.7
36	FRESNO	439,520	67.0	15.2	25.6	19.4	31.8
37	ALAMEDA	733,995	130.7	17.8	25.7	21.2	30.1
38	SAN JOAQUIN	321,948	54.0	16.8	26.1	19.1	33.1
39	EL DORADO	86,027	19.3	22.5	26.3 *	14.4	38.2
40	SISKIYOU	22,389	7.7	34.2 *	26.3 *	7.6	45.1
41	COLUSA	10,660	2.3	21.9 *	26.8 *	0.0	61.4
42	SAN DIEGO	1,522,130	290.7	19.1	26.9	23.8	30.0
43	YOLO	91,759	15.0	16.3 *	27.1 *	13.3	41.0
44	RIVERSIDE	918,812	189.0	20.6	27.4	23.5	31.3
45	NAPA	66,206	19.3	29.2	27.6	15.3	39.9
46	SONOMA	235,493	56.0	23.8	27.8	20.5	35.2
47	YUBA	33,606	5.7	16.9 *	28.0 *	4.4	51.6
<b>HEALTHY PEOPLE 2010 NATIONAL OBJECTIVE (3-7)</b>					<b>28.2</b>		
48	PLUMAS	10,683	3.7	34.3 *	28.3 *	0.0	57.9
49	HUMBOLDT	64,834	14.3	22.1 *	28.6 *	13.7	43.6
50	MODOC	5,155	1.7	32.3 *	29.0 *	0.0	73.1
51	SAN BERNARDINO	960,113	142.7	14.9	29.2	24.3	34.2
52	LAKE	31,278	11.3	36.2 *	29.4 *	12.0	46.9
53	SANTA CRUZ	129,754	24.3	18.8	29.5	17.7	41.4
54	KERN	381,472	57.7	15.1	30.0	22.0	38.0
55	INYO	9,363	4.0	42.7 *	32.9 *	0.6	65.3
56	DEL NORTE	16,050	4.3	27.0 *	33.9 *	1.5	66.3
57	SUTTER	43,471	11.3	26.1 *	34.4 *	14.1	54.6
58	LASSEN	22,199	4.3	19.5 *	38.1 *	0.6	75.6

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

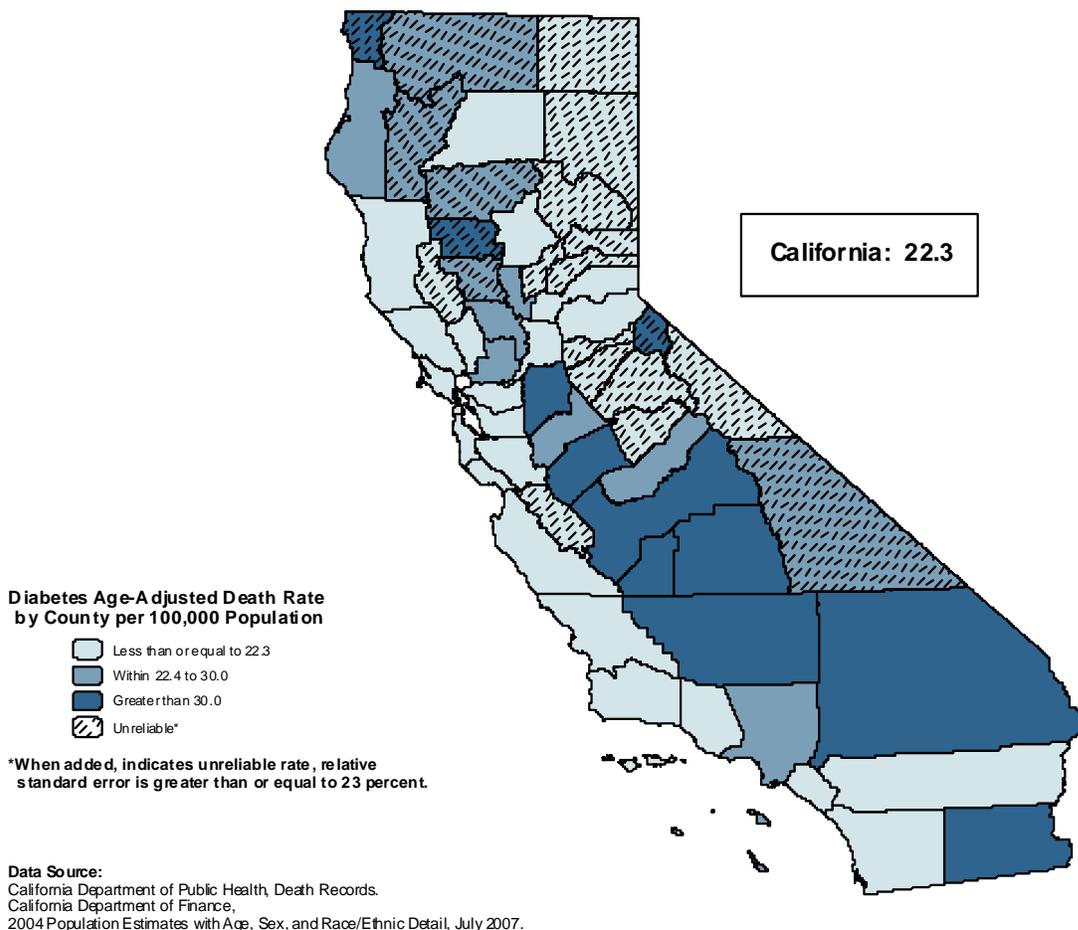
\* Death rate unreliable, relative standard error is greater than or equal to 23 percent.

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

Source: California Department of Public Health: Death Statistical Master Files, 2003-2005.

California Department of Finance: 2004 Population Estimates with Age, Sex, and Race/Ethnic Detail, July 2007.

## DEATHS DUE TO DIABETES, 2003-2005



The crude death rate from diabetes for California was 20.0 deaths per 100,000 population, a risk of dying equivalent to approximately one death for every 5,007 persons. This rate was based on a three-year average number of deaths of 7,295.3 from 2003 to 2005 and a population of 36,525,947 as of July 1, 2004. Among counties with “reliable” rates, the crude rate ranged from 32.9 in Kings County to 12.0 in Marin County, a difference in rates by a factor of 2.7 to 1.

The age-adjusted death rate from diabetes for California for the three-year period from 2003 to 2005 was 22.3 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 54.9 in Kings County to 9.8 in Marin County.

The Healthy People 2010 National Objective 5-5 for diabetes mortality is based on both underlying and contributing causes of death. Multiple causes of death data for 2005 are not yet available for California. Therefore, California’s progress in meeting this objective will not be addressed in this report.

**TABLE 7  
DEATHS DUE TO DIABETES  
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE  
CALIFORNIA COUNTIES, 2003-2005**

RANK ORDER	COUNTY	2004 POPULATION	2003-2005 DEATHS (AVERAGE)	CRUDE DEATH RATE	AGE-ADJUSTED DEATH RATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
<b>HEALTHY PEOPLE 2010 NATIONAL OBJECTIVE (5-5)</b>						<b>NOTE</b>	
1	MONO	13,727	1.0	7.3 *	5.8 *	0.0	17.1
2	MARIN	251,812	30.3	12.0	9.8	6.2	13.3
3	CALAVERAS	44,243	6.7	15.1 *	10.0 *	2.3	17.6
4	AMADOR	37,507	6.3	16.9 *	11.8 *	2.5	21.2
5	EL DORADO	172,320	22.3	13.0	12.0	6.9	17.1
6	SAN BENITO	57,307	5.3	9.3 *	13.0 *	1.8	24.2
7	SAN MATEO	720,229	103.0	14.3	13.2	10.6	15.7
8	NEVADA	98,436	18.0	18.3 *	13.7 *	7.2	20.2
9	LAKE	62,994	12.3	19.6 *	13.8 *	6.0	21.5
10	TUOLUMNE	57,186	12.0	21.0 *	13.9 *	5.9	21.9
11	SAN FRANCISCO	793,564	137.3	17.3	15.0	12.5	17.5
12	SHASTA	177,465	31.7	17.8	15.2	9.9	20.5
13	PLACER	302,199	52.0	17.2	15.2	11.0	19.3
14	SANTA CRUZ	259,942	35.3	13.6	15.5	10.2	20.7
15	SAN LUIS OBISPO	259,709	51.3	19.8	15.9	11.6	20.3
16	MARIPOSA	18,066	4.0	22.1 *	16.0 *	0.3	31.6
17	ORANGE	3,038,670	453.7	14.9	17.4	15.8	19.1
18	MONTEREY	423,137	63.7	15.0	17.5	13.2	21.8
19	MODOC	10,178	2.7	26.2 *	17.5 *	0.0	38.6
20	SANTA BARBARA	416,662	77.3	18.6	17.7	13.7	21.7
21	SIERRA	3,716	1.0	26.9 *	18.0 *	0.0	53.5
22	LASSEN	35,626	5.3	15.0 *	18.0 *	2.5	33.6
23	BUTTE	213,143	46.0	21.6	18.4	13.0	23.9
24	SANTA CLARA	1,747,295	291.7	16.7	18.9	16.7	21.1
25	SONOMA	477,419	97.0	20.3	19.2	15.3	23.1
26	RIVERSIDE	1,845,185	325.0	17.6	19.5	17.4	21.6
27	PLUMAS	21,478	6.0	27.9 *	19.5 *	3.4	35.7
28	MENDOCINO	89,966	20.0	22.2	19.7	11.0	28.5
29	CONTRA COSTA	1,014,992	197.7	19.5	19.9	17.1	22.7
30	SAN DIEGO	3,031,055	544.7	18.0	20.0	18.3	21.6
31	VENTURA	808,735	141.0	17.4	20.1	16.8	23.4
32	NAPA	132,753	34.3	25.9	20.8	13.7	27.8
33	SACRAMENTO	1,357,367	258.3	19.0	21.1	18.6	23.7
34	YUBA	66,682	11.0	16.5 *	21.2 *	8.6	33.9
35	ALAMEDA	1,497,316	297.3	19.9	21.9	19.4	24.4
<b>CALIFORNIA</b>		<b>36,525,947</b>	<b>7,295.3</b>	<b>20.0</b>	<b>22.3</b>	<b>21.8</b>	<b>22.8</b>
36	INYO	18,923	6.3	33.5 *	22.4 *	4.9	39.8
37	COLUSA	20,927	4.3	20.7 *	22.4 *	1.3	43.5
38	YOLO	186,751	35.0	18.7	24.1	16.1	32.2
39	SISKIYOU	45,644	16.0	35.1 *	24.2 *	12.2	36.2
40	TEHAMA	59,942	17.3	28.9 *	24.4 *	12.9	35.9
41	MADERA	139,398	30.3	21.8	24.5	15.8	33.3
42	LOS ANGELES	10,152,410	2,229.0	22.0	25.4	24.4	26.5
43	TRINITY	13,961	5.0	35.8 *	26.6 *	2.6	50.6
44	SUTTER	87,881	22.7	25.8	26.8	15.7	37.9
45	SOLANO	418,097	95.7	22.9	27.1	21.6	32.5
46	STANISLAUS	499,864	111.7	22.3	27.4	22.3	32.5
47	HUMBOLDT	130,859	38.7	29.5	30.0	20.5	39.5
48	DEL NORTE	29,162	9.0	30.9 *	31.0 *	10.7	51.3
49	SAN BERNARDINO	1,922,467	423.7	22.0	31.0	28.0	34.0
50	FRESNO	874,745	218.7	25.0	31.9	27.6	36.1
51	SAN JOAQUIN	645,560	169.7	26.3	32.0	27.1	36.8
52	IMPERIAL	159,844	43.3	27.1	33.5	23.5	43.6
53	KERN	744,489	183.7	24.7	34.4	29.4	39.5
54	TULARE	406,003	110.3	27.2	35.3	28.7	41.9
55	MERCED	237,550	63.7	26.8	36.6	27.5	45.6
56	GLENN	28,115	10.7	37.9 *	36.6 *	14.6	58.6
57	KINGS	143,970	47.3	32.9	54.9	39.0	70.8
58	ALPINE	1,304	0.7	51.1 *	55.6 *	0.0	190.5

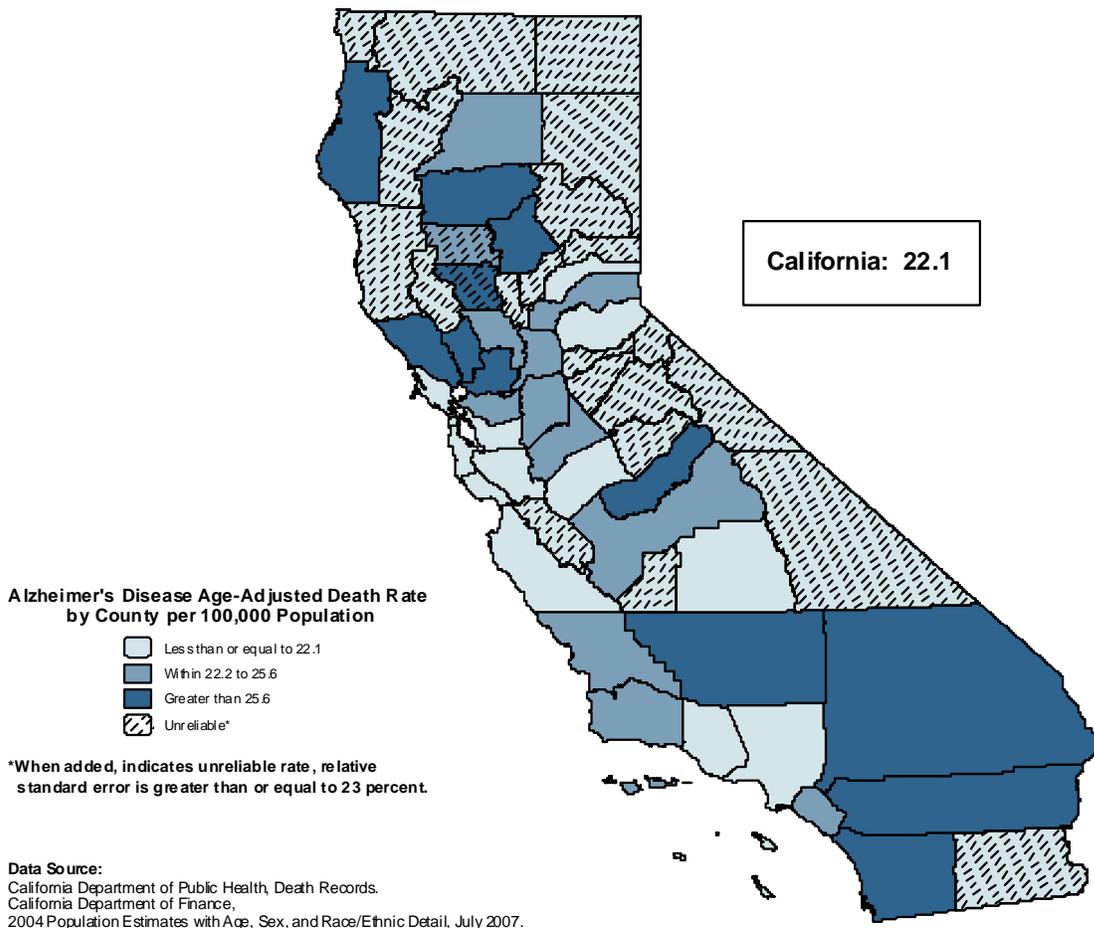
\* Death rate unreliable, relative standard error is greater than or equal to 23 percent.

Note: Counties were rank ordered first by increasing age-adjusted death rate (calculated to 15 decimal places), second by decreasing size of the population. Healthy People 2010 objective is based on both underlying and contributing cause of death. This report excludes multiple/contributing cause of death.

Source: California Department of Public Health: Death Statistical Master Files, 2003-2005.

California Department of Finance: 2004 Population Estimates with Age, Sex, and Race/Ethnic Detail, July 2007.

## DEATHS DUE TO ALZHEIMER'S DISEASE, 2003-2005



The crude death rate from Alzheimer's disease for California was 19.4 deaths per 100,000 population, a risk of dying equivalent to approximately one death for every 5,159 persons. This rate was based on a three-year average number of deaths of 7,080.3 from 2003 to 2005 and a population of 36,525,947 as of July 1, 2004. Among counties with "reliable" rates, the crude rate ranged from 55.0 in Napa County to 7.1 in Tulare County, a difference in rates by a factor of 7.7 to 1.

The age-adjusted death rate from Alzheimer's disease for California for the three-year period from 2003 to 2005 was 22.1 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 42.0 in Humboldt County to 10.0 in Tulare County.

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

**TABLE 8  
DEATHS DUE TO ALZHEIMER'S DISEASE  
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE  
CALIFORNIA COUNTIES, 2003-2005**

RANK ORDER	COUNTY	2004 POPULATION	2003-2005 DEATHS (AVERAGE)	CRUDE DEATH RATE	AGE-ADJUSTED DEATH RATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
<b>HEALTHY PEOPLE 2010 NATIONAL OBJECTIVE:</b>					<b>NONE</b>		
1	ALPINE	1,304	0.0	-	-	-	-
2	INYO	18,923	1.3	7.0 *	4.3 *	0.0	11.5
3	SIERRA	3,716	0.3	9.0 *	4.4 *	0.0	19.4
4	SAN BENITO	57,307	3.3	5.8 *	8.9 *	0.0	18.4
5	IMPERIAL	159,844	10.7	6.7 *	9.5 *	3.7	15.2
6	TULARE	406,003	29.0	7.1	10.0	6.3	13.6
7	TRINITY	13,961	2.0	14.3 *	10.6 *	0.0	25.2
8	LASSEN	35,626	2.7	7.5 *	11.3 *	0.0	25.0
9	YUBA	66,682	5.3	8.0 *	11.7 *	1.7	21.6
10	MARIPOSA	18,066	3.0	16.6 *	12.2 *	0.0	26.0
11	MENDOCINO	89,966	12.7	14.1 *	12.3 *	5.5	19.1
12	MONO	13,727	1.0	7.3 *	12.9 *	0.0	38.3
13	SAN FRANCISCO	793,564	134.3	16.9	13.3	11.1	15.6
14	MONTEREY	423,137	50.0	11.8	13.6	9.8	17.3
15	CALAVERAS	44,243	9.0	20.3 *	14.0 *	4.8	23.2
16	SUTTER	87,881	11.7	13.3 *	14.3 *	6.1	22.6
17	LAKE	62,994	12.7	20.1 *	14.8 *	6.6	22.9
18	PLUMAS	21,478	4.3	20.2 *	14.9 *	0.8	29.0
19	SISKIYOU	45,644	10.3	22.6 *	15.1 *	5.9	24.2
20	TUOLUMNE	57,186	13.3	23.3 *	15.4 *	7.1	23.6
21	ALAMEDA	1,497,316	212.3	14.2	15.8	13.6	17.9
22	NEVADA	98,436	21.3	21.7	16.2	9.3	23.1
23	LOS ANGELES	10,152,410	1,391.7	13.7	16.3	15.4	17.1
24	MARIN	251,812	57.7	22.9	16.8	12.4	21.2
25	SANTA CRUZ	259,942	42.3	16.3	17.4	12.1	22.7
26	MERCED	237,550	27.3	11.5	17.6	11.0	24.1
27	KINGS	143,970	13.0	9.0 *	17.6 *	8.0	27.2
28	DEL NORTE	29,162	5.0	17.1 *	18.2 *	2.2	34.2
29	SAN MATEO	720,229	156.0	21.7	18.9	15.9	21.9
30	AMADOR	37,507	10.0	26.7 *	19.3 *	7.3	31.2
31	VENTURA	808,735	136.0	16.8	20.0	16.6	23.4
32	SANTA CLARA	1,747,295	311.0	17.8	20.8	18.5	23.2
33	MODOC	10,178	3.0	29.5 *	21.9 *	0.0	46.7
34	EL DORADO	172,320	36.7	21.3	22.0	14.8	29.1
<b>CALIFORNIA</b>		<b>36,525,947</b>	<b>7,080.3</b>	<b>19.4</b>	<b>22.1</b>	<b>21.6</b>	<b>22.6</b>
35	SANTA BARBARA	416,662	107.3	25.8	22.2	18.0	26.4
36	ORANGE	3,038,670	564.7	18.6	22.2	20.4	24.0
37	SHASTA	177,465	46.3	26.1	23.2	16.5	29.9
38	GLENN	28,115	7.0	24.9 *	23.4 *	6.0	40.7
39	FRESNO	874,745	153.0	17.5	23.4	19.7	27.1
40	SAN LUIS OBISPO	259,709	79.7	30.7	23.4	18.3	28.6
41	CONTRA COSTA	1,014,992	229.7	22.6	23.9	20.8	26.9
42	STANISLAUS	499,864	94.0	18.8	24.0	19.2	28.9
43	YOLO	186,751	33.0	17.7	24.1	15.9	32.3
44	PLACER	302,199	85.0	28.1	24.1	19.0	29.3
45	SACRAMENTO	1,357,367	283.0	20.8	24.5	21.7	27.4
46	SAN JOAQUIN	645,560	126.3	19.6	25.0	20.6	29.3
47	SAN BERNARDINO	1,922,467	299.3	15.6	26.1	23.2	29.1
48	SONOMA	477,419	150.0	31.4	27.5	23.0	31.9
49	TEHAMA	59,942	19.7	32.8	27.8	15.5	40.1
50	RIVERSIDE	1,845,185	474.3	25.7	28.6	26.1	31.2
51	BUTTE	213,143	85.3	40.0	29.6	23.3	35.9
52	KERN	744,489	140.3	18.8	31.4	26.2	36.6
53	MADERA	139,398	41.0	29.4	35.5	24.6	46.3
54	SOLANO	418,097	119.0	28.5	38.3	31.4	45.2
55	SAN DIEGO	3,031,055	1,068.0	35.2	38.6	36.3	41.0
56	NAPA	132,753	73.0	55.0	39.1	30.0	48.2
57	HUMBOLDT	130,859	52.3	40.0	42.0	30.6	53.4
58	COLUSA	20,927	8.7	41.4 *	45.2 *	15.1	75.4

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

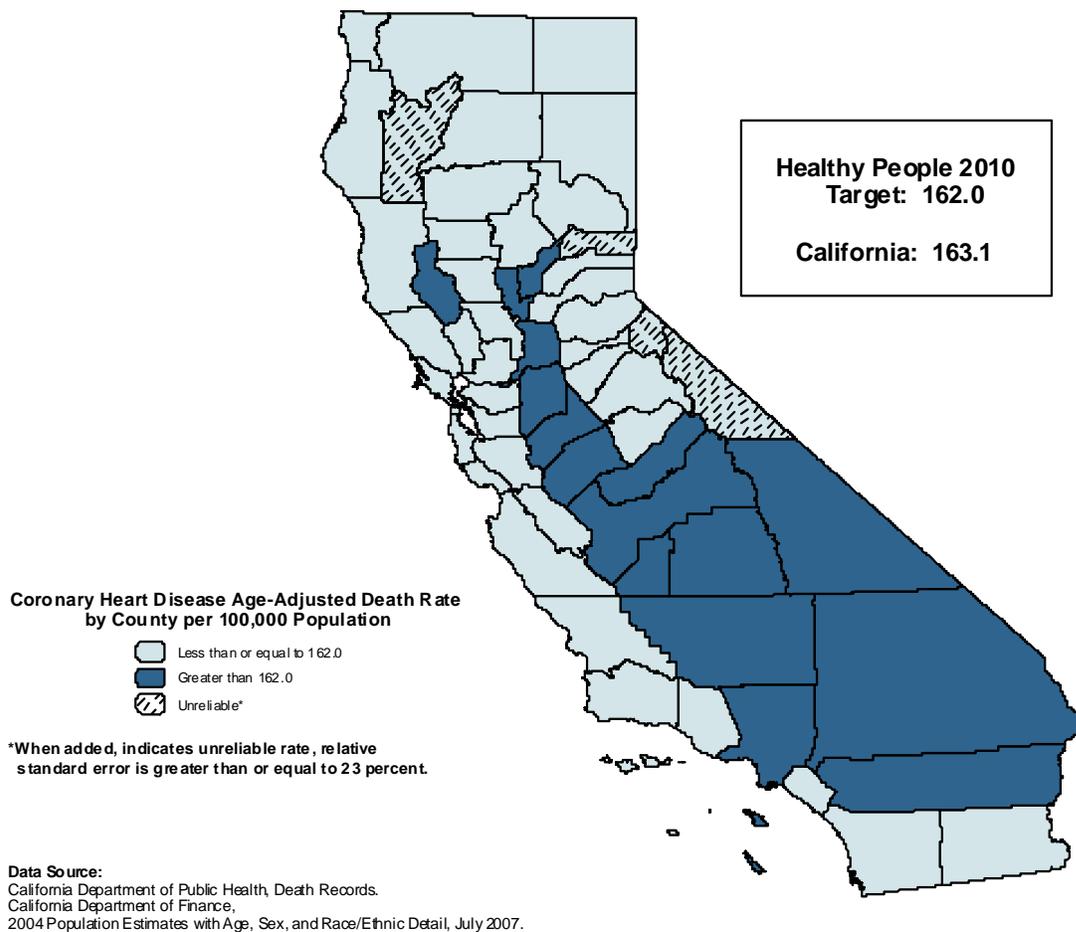
\* Death rate unreliable, relative standard error is greater than or equal to 23 percent.

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

Source: California Department of Public Health: Death Statistical Master Files, 2003-2005.

California Department of Finance: 2004 Population Estimates with Age, Sex, and Race/Ethnic Detail, July 2007.

## DEATHS DUE TO CORONARY HEART DISEASE, 2003-2005



The crude death rate from coronary heart disease for California was 144.9 deaths per 100,000 population, a risk of dying equivalent to approximately one death for every 690 persons. This rate was based on a three-year average number of deaths of 52,925.7 from 2003 to 2005 and a population of 36,525,947 as of July 1, 2004. Among counties with “reliable” rates, the crude rate ranged from 306.5 in Inyo County to 87.2 in San Benito County, a difference in rates by a factor of 3.5 to 1.

The age-adjusted death rate from coronary heart disease for California for the three-year period from 2003 to 2005 was 163.1 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 267.9 in Kern County to 100.5 in Marin County.

Forty-two counties (thirty-eight with reliable age-adjusted death rates) met the Healthy People 2010 National Objective 12-1 of no more than 162.0 age-adjusted deaths due to coronary heart disease per 100,000 population. The statewide age-adjusted death rate for coronary heart disease did not meet the national objective.

**TABLE 9  
DEATHS DUE TO CORONARY HEART DISEASE  
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE  
CALIFORNIA COUNTIES, 2003-2005**

RANK ORDER	COUNTY	2004 POPULATION	2003-2005 DEATHS (AVERAGE)	CRUDE DEATH RATE	AGE-ADJUSTED DEATH RATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
1	MONO	13,727	8.7	63.1 *	77.2 *	22.6	131.9
2	TRINITY	13,961	16.0	114.6 *	84.2 *	42.2	126.1
3	ALPINE	1,304	1.3	102.2 *	92.2 *	0.0	252.5
4	SIERRA	3,716	6.0	161.5 *	94.3 *	17.9	170.6
5	MARIN	251,812	329.7	130.9	100.5	89.5	111.5
6	PLUMAS	21,478	33.0	153.6	106.4	69.3	143.5
7	SANTA CLARA	1,747,295	1,732.0	99.1	113.1	107.8	118.5
8	SAN MATEO	720,229	915.3	127.1	114.9	107.4	122.4
9	MONTEREY	423,137	429.7	101.5	117.1	106.0	128.2
10	SAN LUIS OBISPO	259,709	398.7	153.5	121.6	109.6	133.6
11	SAN BENITO	57,307	50.0	87.2	123.2	88.7	157.8
12	COLUSA	20,927	23.7	113.1	124.2	74.1	174.3
13	CONTRA COSTA	1,014,992	1,219.0	120.1	124.4	117.4	131.4
14	NAPA	132,753	216.7	163.2	124.6	107.8	141.4
15	CALAVERAS	44,243	84.7	191.4	126.4	99.2	153.6
16	EL DORADO	172,320	228.3	132.5	127.7	111.0	144.4
17	SISKIYOU	45,644	84.3	184.8	129.0	100.9	157.0
18	NEVADA	98,436	172.0	174.7	129.0	109.6	148.3
19	PLACER	302,199	448.3	148.4	129.3	117.3	141.3
20	TUOLUMNE	57,186	112.3	196.4	130.2	105.9	154.6
21	MARIPOSA	18,066	34.3	190.0	132.8	88.1	177.6
22	YOLO	186,751	188.7	101.0	133.2	114.1	152.3
23	SONOMA	477,419	711.7	149.1	133.7	123.7	143.6
24	DEL NORTE	29,162	38.0	130.3	134.0	91.3	176.7
25	SAN FRANCISCO	793,564	1,260.0	158.8	134.4	127.0	141.9
26	SANTA CRUZ	259,942	312.7	120.3	134.7	119.5	150.0
27	GLENN	28,115	40.7	144.6	137.5	95.2	179.8
28	ALAMEDA	1,497,316	1,877.3	125.4	138.5	132.2	144.8
29	SANTA BARBARA	416,662	643.0	154.3	140.6	129.7	151.5
30	IMPERIAL	159,844	178.0	111.4	142.5	121.4	163.7
31	SOLANO	418,097	479.3	114.6	142.9	130.0	155.8
32	MENDOCINO	89,966	151.0	167.8	144.9	121.7	168.2
33	SAN DIEGO	3,031,055	3,988.7	131.6	145.1	140.6	149.6
34	AMADOR	37,507	81.0	216.0	150.7	117.6	183.8
35	LASSEN	35,626	42.3	118.8	151.9	105.4	198.4
36	VENTURA	808,735	1,063.0	131.4	152.3	143.1	161.5
37	BUTTE	213,143	405.7	190.3	152.4	137.4	167.4
38	HUMBOLDT	130,859	199.0	152.1	156.3	134.5	178.1
39	MODOC	10,178	22.3	219.4	158.0	92.3	223.6
40	ORANGE	3,038,670	4,076.7	134.2	158.2	153.3	163.1
41	SHASTA	177,465	328.3	185.0	160.1	142.7	177.5
42	TEHAMA	59,942	115.0	191.9	161.6	132.0	191.1
<b>HEALTHY PEOPLE 2010 NATIONAL OBJECTIVE (12-1)</b>					<b>162.0</b>		
<b>CALIFORNIA</b>		<b>36,525,947</b>	<b>52,925.7</b>	<b>144.9</b>	<b>163.1</b>	<b>161.7</b>	<b>164.5</b>
43	KINGS	143,970	138.7	96.3	169.1	140.5	197.6
44	FRESNO	874,745	1,166.0	133.3	173.8	163.8	183.8
45	MADERA	139,398	213.7	153.3	176.1	152.4	199.8
46	LAKE	62,994	154.3	245.0	176.4	148.2	204.6
47	SACRAMENTO	1,357,367	2,125.3	156.6	178.1	170.5	185.7
48	LOS ANGELES	10,152,410	15,596.7	153.6	179.5	176.7	182.4
49	MERCED	237,550	306.3	129.0	184.2	163.4	204.9
50	TULARE	406,003	572.7	141.0	189.8	174.2	205.4
51	SUTTER	87,881	157.3	179.0	191.1	161.2	221.1
52	INYO	18,923	58.0	306.5	196.4	145.6	247.2
53	RIVERSIDE	1,845,185	3,373.7	182.8	203.1	196.2	209.9
54	YUBA	66,682	112.3	168.5	217.9	177.2	258.6
55	SAN JOAQUIN	645,560	1,139.7	176.5	220.4	207.6	233.2
56	SAN BERNARDINO	1,922,467	2,844.0	147.9	224.1	215.7	232.4
57	STANISLAUS	499,864	900.0	180.0	225.3	210.6	240.1
58	KERN	744,489	1,320.7	177.4	267.9	253.2	282.5

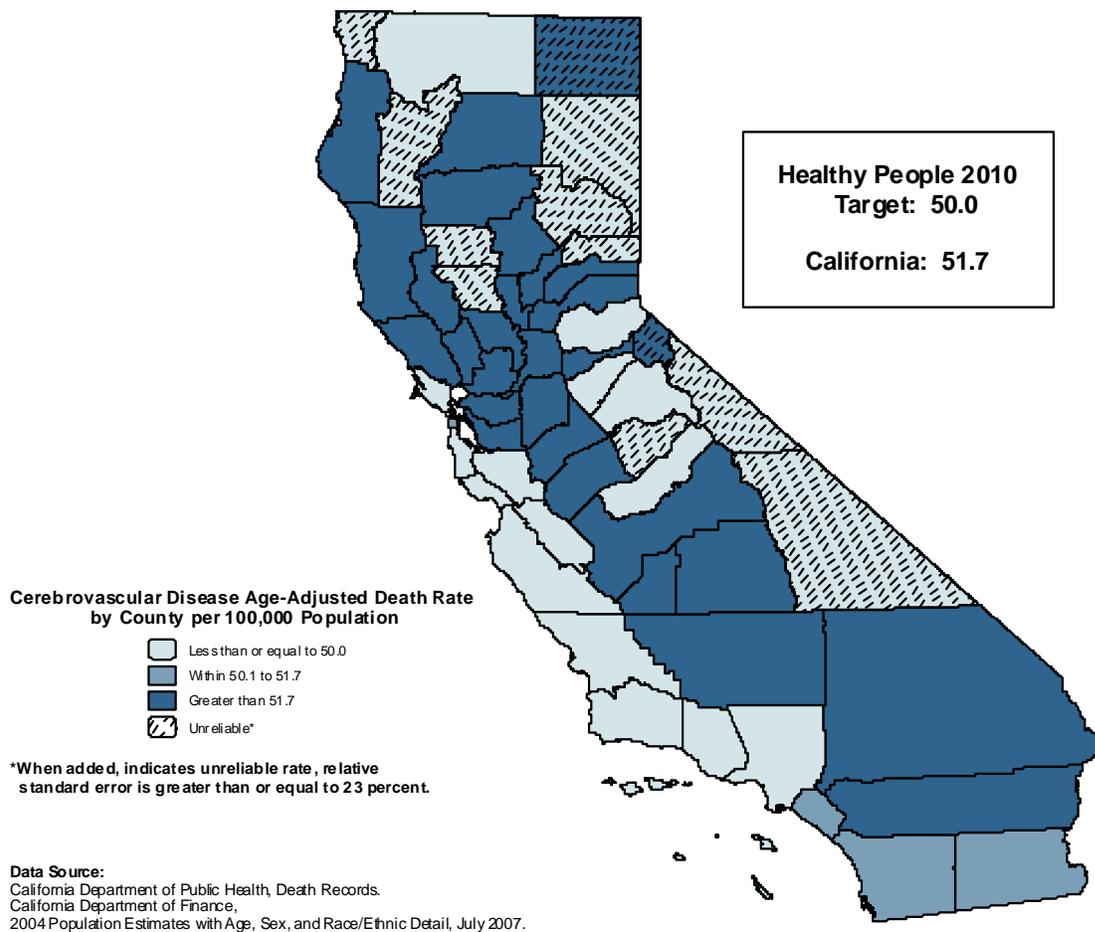
\* Death rate unreliable, relative standard error is greater than or equal to 23 percent.

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

Source: California Department of Public Health: Death Statistical Master Files, 2003-2005.

California Department of Finance: 2004 Population Estimates with Age, Sex, and Race/Ethnic Detail, July 2007.

## DEATHS DUE TO CEREBROVASCULAR DISEASE (STROKE), 2003-2005



The crude death rate from cerebrovascular disease for California was 45.7 deaths per 100,000 population, a risk of dying equivalent to approximately one death for every 2,186 persons. This rate was based on a three-year average number of deaths of 16,707.0 from 2003 to 2005 and a population of 36,525,947 as of July 1, 2004. Among counties with “reliable” rates, the crude rate ranged from 92.6 in Lake County to 33.3 in Kings County, a difference in rates by a factor of 2.8 to 1.

The age-adjusted death rate from cerebrovascular disease for California for the three-year period from 2003 to 2005 was 51.7 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 74.8 in Merced County to 40.4 in Santa Clara County.

Twenty-five counties (fifteen with reliable age-adjusted death rates) met the Healthy People 2010 National Objective 12-7 of no more than 50.0 age-adjusted deaths due to cerebrovascular disease per 100,000 population. The statewide age-adjusted death rate for cerebrovascular disease did not meet the national objective.

**TABLE 10  
DEATHS DUE TO CEREBROVASCULAR DISEASE (STROKE)  
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE  
CALIFORNIA COUNTIES, 2003-2005**

RANK ORDER	COUNTY	2004 POPULATION	2003-2005 DEATHS (AVERAGE)	CRUDE DEATH RATE	AGE-ADJUSTED DEATH RATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
1	SIERRA	3,716	1.0	26.9 *	14.3 *	0.0	42.6
2	MONO	13,727	2.7	19.4 *	25.8 *	0.0	57.8
3	TRINITY	13,961	5.7	40.6 *	32.0 *	5.3	58.7
4	INYO	18,923	9.7	51.1 *	32.7 *	12.1	53.4
5	SANTA CLARA	1,747,295	613.7	35.1	40.4	37.2	43.6
6	DEL NORTE	29,162	11.3	38.9 *	40.8 *	17.0	64.6
7	LASSEN	35,626	10.7	29.9 *	42.1 *	16.7	67.6
8	VENTURA	808,735	294.3	36.4	42.6	37.7	47.4
9	MARIN	251,812	141.3	56.1	43.0	35.8	50.1
10	GLENN	28,115	12.7	45.1 *	43.4 *	19.4	67.3
11	EL DORADO	172,320	77.7	45.1	44.7	34.7	54.7
12	CALAVERAS	44,243	29.0	65.5	44.7	28.3	61.1
13	PLUMAS	21,478	14.3	66.7 *	46.6 *	22.3	70.8
14	LOS ANGELES	10,152,410	4,049.3	39.9	46.8	45.3	48.2
15	MONTEREY	423,137	173.3	41.0	47.2	40.1	54.2
16	SAN LUIS OBISPO	259,709	157.3	60.6	47.3	39.9	54.7
17	MADERA	139,398	56.3	40.4	47.4	35.0	59.8
18	SANTA BARBARA	416,662	219.7	52.7	47.4	41.1	53.8
19	SAN MATEO	720,229	383.3	53.2	47.7	42.9	52.5
20	TUOLUMNE	57,186	41.7	72.9	48.3	33.5	63.1
21	SANTA CRUZ	259,942	114.7	44.1	48.8	39.7	57.9
22	MARIPOSA	18,066	12.0	66.4 *	48.8 *	21.0	76.7
23	SISKIYOU	45,644	33.3	73.0	49.1	32.4	65.7
24	COLUSA	20,927	9.3	44.6 *	49.3 *	17.6	81.1
25	SAN BENITO	57,307	19.3	33.7	49.8	27.5	72.1
<b>HEALTHY PEOPLE 2010 NATIONAL OBJECTIVE (12-7)</b>					<b>50.0</b>		
26	IMPERIAL	159,844	61.0	38.2	50.1	37.4	62.8
27	SAN DIEGO	3,031,055	1,387.3	45.8	50.4	47.8	53.1
28	ORANGE	3,038,670	1,298.3	42.7	50.7	47.9	53.4
29	SAN FRANCISCO	793,564	481.3	60.7	50.7	46.1	55.2
	<b>CALIFORNIA</b>	<b>36,525,947</b>	<b>16,707.0</b>	<b>45.7</b>	<b>51.7</b>	<b>50.9</b>	<b>52.5</b>
30	ALAMEDA	1,497,316	711.3	47.5	52.6	48.7	56.4
31	SHASTA	177,465	109.3	61.6	54.1	43.9	64.2
32	STANISLAUS	499,864	216.7	43.3	54.2	46.9	61.4
33	SAN BERNARDINO	1,922,467	690.3	35.9	55.3	51.1	59.5
34	CONTRA COSTA	1,014,992	537.7	53.0	55.4	50.7	60.1
35	HUMBOLDT	130,859	70.0	53.5	55.8	42.7	68.9
36	TULARE	406,003	170.0	41.9	56.5	47.9	65.0
37	MENDOCINO	89,966	59.0	65.6	57.5	42.7	72.2
38	MODOC	10,178	8.0	78.6 *	58.1 *	17.7	98.5
39	RIVERSIDE	1,845,185	968.3	52.5	58.2	54.6	61.9
40	AMADOR	37,507	31.3	83.5	59.0	38.2	79.8
41	SOLANO	418,097	194.3	46.5	59.1	50.8	67.5
42	SUTTER	87,881	48.3	55.0	59.3	42.5	76.0
43	KINGS	143,970	48.0	33.3	59.4	42.4	76.5
44	KERN	744,489	294.7	39.6	60.2	53.2	67.1
45	PLACER	302,199	212.7	70.4	61.0	52.8	69.3
46	BUTTE	213,143	168.0	78.8	61.1	51.8	70.4
47	YUBA	66,682	31.3	47.0	61.9	40.0	83.8
48	NAPA	132,753	110.7	83.4	62.0	50.3	73.7
49	YOLO	186,751	87.3	46.8	62.4	49.3	75.5
50	SAN JOAQUIN	645,560	324.0	50.2	63.0	56.1	69.8
51	SONOMA	477,419	341.7	71.6	63.8	56.9	70.6
52	TEHAMA	59,942	45.3	75.6	64.1	45.4	82.8
53	SACRAMENTO	1,357,367	782.7	57.7	66.2	61.6	70.9
54	FRESNO	874,745	451.0	51.6	67.3	61.1	73.5
55	LAKE	62,994	58.3	92.6	67.4	50.0	84.8
56	NEVADA	98,436	90.7	92.1	68.6	54.5	82.8
57	MERCED	237,550	122.7	51.6	74.8	61.5	88.1
58	ALPINE	1,304	1.7	127.8 *	155.7 *	0.0	392.1

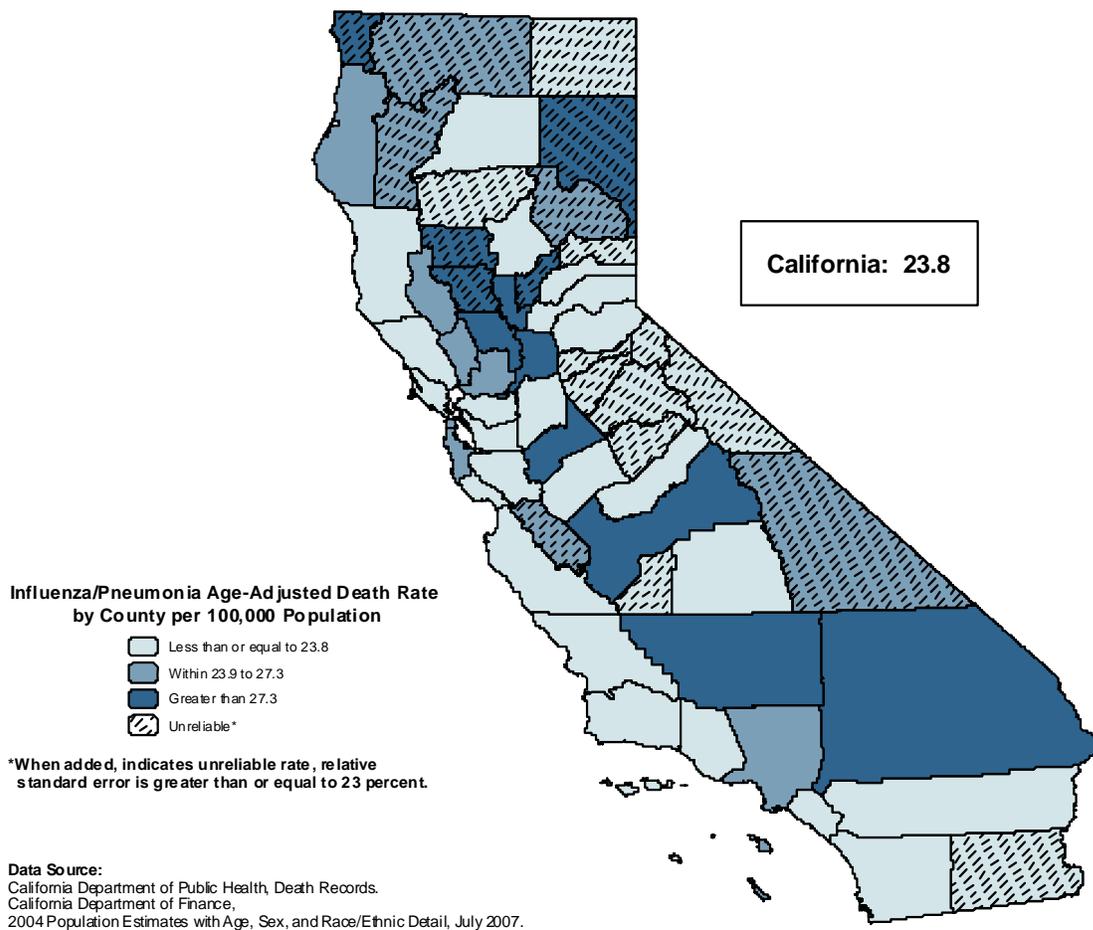
\* Death rate unreliable, relative standard error is greater than or equal to 23 percent.

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

Source: California Department of Public Health: Death Statistical Master Files, 2003-2005.

California Department of Finance: 2004 Population Estimates with Age, Sex, and Race/Ethnic Detail, July 2007.

## DEATHS DUE TO INFLUENZA/PNEUMONIA, 2003-2005



The crude death rate from influenza/pneumonia for California was 21.0 deaths per 100,000 population, a risk of dying equivalent to approximately one death for every 4,754 persons. This rate was based on a three-year average number of deaths of 7,684.0 from 2003 to 2005 and a population of 36,525,947 as of July 1, 2004. Among counties with “reliable” rates, the crude rate ranged from 35.4 in Napa County to 12.6 in Monterey County, a difference in rates by a factor of 2.8 to 1.

The age-adjusted death rate from influenza/pneumonia for California for the three-year period from 2003 to 2005 was 23.8 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 40.4 in Yolo County to 14.3 in Monterey County.

A Healthy People 2010 National Objective for deaths due to influenza/pneumonia has not been established.

**TABLE 11  
DEATHS DUE TO INFLUENZA/PNEUMONIA  
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE  
CALIFORNIA COUNTIES, 2003-2005**

RANK ORDER	COUNTY	2004 POPULATION	2003-2005 DEATHS (AVERAGE)	CRUDE DEATH RATE	AGE-ADJUSTED DEATH RATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
<b>HEALTHY PEOPLE 2010 NATIONAL OBJECTIVE:</b>					<b>NONE</b>		
1	ALPINE	1,304	0.0	-	-	-	-
2	SIERRA	3,716	0.7	17.9 *	11.0 *	0.0	37.9
3	MONTEREY	423,137	53.3	12.6	14.3	10.5	18.2
4	SAN LUIS OBISPO	259,709	48.0	18.5	14.5	10.4	18.6
5	MARIPOSA	18,066	3.7	20.3 *	14.7 *	0.0	29.8
6	MODOC	10,178	2.0	19.7 *	15.1 *	0.0	36.0
7	KINGS	143,970	12.7	8.8 *	15.6 *	6.8	24.3
8	IMPERIAL	159,844	18.7	11.7 *	15.7 *	8.5	22.9
9	MARIN	251,812	56.7	22.5	16.6	12.2	21.0
10	EL DORADO	172,320	30.0	17.4	17.3	11.1	23.5
11	CALAVERAS	44,243	11.7	26.4 *	17.6 *	7.4	27.7
12	SAN DIEGO	3,031,055	494.7	16.3	17.9	16.3	19.4
13	SONOMA	477,419	98.3	20.6	18.0	14.4	21.5
14	PLACER	302,199	64.7	21.4	18.6	14.0	23.1
15	MENDOCINO	89,966	19.7	21.9	19.1	10.6	27.7
16	SANTA BARBARA	416,662	91.7	22.0	19.2	15.3	23.2
17	TUOLUMNE	57,186	16.3	28.6 *	19.7 *	10.0	29.4
18	MONO	13,727	2.0	14.6 *	20.1 *	0.0	48.9
19	NEVADA	98,436	26.3	26.8	20.2	12.4	28.1
20	ALAMEDA	1,497,316	274.3	18.3	20.2	17.8	22.6
21	RIVERSIDE	1,845,185	339.3	18.4	20.4	18.2	22.6
22	SANTA CRUZ	259,942	49.7	19.1	20.5	14.7	26.3
23	SANTA CLARA	1,747,295	311.7	17.8	20.6	18.3	22.8
24	MADERA	139,398	25.0	17.9	21.0	12.7	29.2
25	TEHAMA	59,942	15.0	25.0 *	21.0 *	10.4	31.7
26	MERCED	237,550	35.0	14.7	21.2	14.2	28.3
27	VENTURA	808,735	150.7	18.6	21.6	18.2	25.1
28	AMADOR	37,507	11.7	31.1 *	22.0 *	9.3	34.7
29	BUTTE	213,143	59.7	28.0	22.3	16.6	28.1
30	TULARE	406,003	69.0	17.0	22.7	17.3	28.1
31	SAN JOAQUIN	645,560	117.3	18.2	22.9	18.7	27.0
32	SHASTA	177,465	46.0	25.9	22.9	16.2	29.5
33	CONTRA COSTA	1,014,992	226.3	22.3	23.2	20.2	26.2
34	ORANGE	3,038,670	601.3	19.8	23.6	21.7	25.5
	<b>CALIFORNIA</b>	<b>36525947</b>	<b>7,684.0</b>	<b>21.0</b>	<b>23.8</b>	<b>23.3</b>	<b>24.3</b>
35	INYO	18,923	6.0	31.7 *	23.9 *	3.1	44.7
36	LAKE	62,994	20.0	31.7	24.4	13.4	35.4
37	SAN BENITO	57,307	9.7	16.9 *	24.7 *	9.0	40.4
38	TRINITY	13,961	4.3	31.0 *	24.7 *	1.1	48.3
39	SOLANO	418,097	81.3	19.5	24.7	19.3	30.1
40	SAN MATEO	720,229	205.3	28.5	25.4	21.9	28.9
41	NAPA	132,753	47.0	35.4	25.5	18.1	32.9
42	SAN FRANCISCO	793,564	259.0	32.6	26.6	23.3	29.8
43	HUMBOLDT	130,859	34.0	26.0	26.7	17.7	35.7
44	PLUMAS	21,478	7.7	35.7 *	26.7 *	7.4	46.0
45	SISKIYOU	45,644	17.7	38.7 *	27.2 *	14.3	40.0
46	LOS ANGELES	10,152,410	2,342.3	23.1	27.3	26.2	28.4
47	SAN BERNARDINO	1,922,467	336.3	17.5	27.4	24.4	30.4
48	LASSEN	35,626	6.7	18.7 *	27.5 *	6.5	48.5
49	YUBA	66,682	14.0	21.0 *	27.9 *	13.1	42.6
50	SACRAMENTO	1,357,367	330.0	24.3	27.9	24.9	30.9
51	FRESNO	874,745	189.7	21.7	28.4	24.4	32.5
52	COLUSA	20,927	5.3	25.5 *	29.1 *	4.4	53.8
53	GLENN	28,115	8.7	30.8 *	29.7 *	9.8	49.5
54	STANISLAUS	499,864	119.7	23.9	30.0	24.6	35.3
55	DEL NORTE	29,162	8.7	29.7 *	31.4 *	10.5	52.4
56	SUTTER	87,881	26.7	30.3	33.0	20.5	45.6
57	KERN	744,489	165.0	22.2	33.2	28.1	38.4
58	YOLO	186,751	56.0	30.0	40.4	29.8	51.0

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

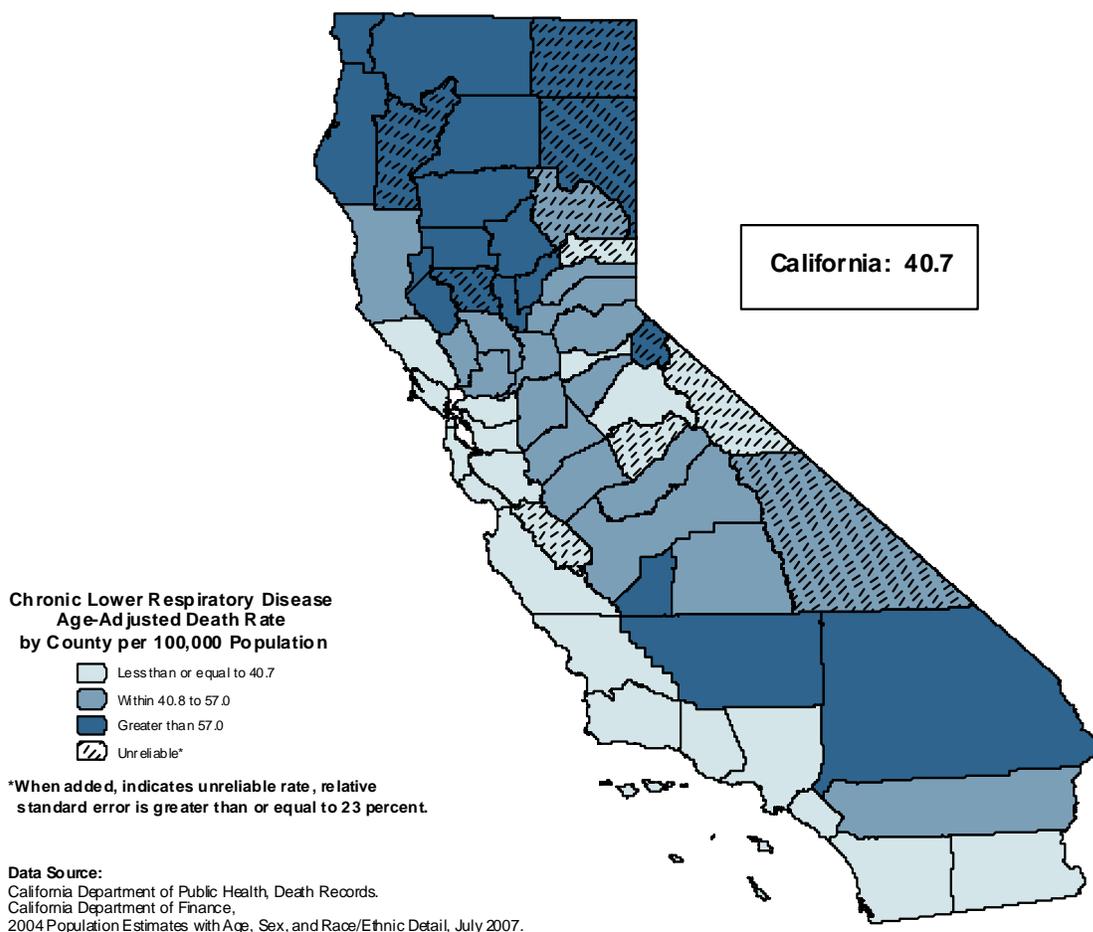
\* Death rate unreliable, relative standard error is greater than or equal to 23 percent.

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

Source: California Department of Public Health: Death Statistical Master Files, 2003-2005.

California Department of Finance: 2004 Population Estimates with Age, Sex, and Race/Ethnic Detail, July 2007.

## DEATHS DUE TO CHRONIC LOWER RESPIRATORY DISEASE, 2003-2005



The crude death rate from chronic lower respiratory disease deaths for California was 35.7 deaths per 100,000 population, a risk of dying equivalent to approximately one death for every 2,805 persons. This rate was based on a three-year average number of deaths of 13,022.0 from 2003 to 2005 and a population of 36,525,947 as of July 1, 2004. Among counties with “reliable” rates, the crude rate ranged from 113.2 in Lake County to 24.6 in Imperial County, a difference in rates by a factor of 4.6 to 1.

The age-adjusted death rate from chronic lower respiratory disease deaths for California for the three-year period from 2003 to 2005 was 40.7 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 84.1 in Yuba County to 26.5 in Marin County.

A Healthy People 2010 National Objective for deaths due to chronic lower respiratory disease has not been established.

**TABLE 12  
DEATHS DUE TO CHRONIC LOWER RESPIRATORY DISEASE  
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE  
CALIFORNIA COUNTIES, 2003-2005**

RANK ORDER	COUNTY	2004 POPULATION	2003-2005 DEATHS (AVERAGE)	CRUDE DEATH RATE	AGE-ADJUSTED DEATH RATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
<b>HEALTHY PEOPLE 2010 NATIONAL OBJECTIVE:</b>					<b>NONE</b>		
1	MONO	13,727	1.3	9.7 *	16.7 *	0.0	45.1
2	MARIN	251,812	83.3	33.1	26.5	20.8	32.2
3	SAN FRANCISCO	793,564	252.3	31.8	27.3	24.0	30.7
4	SANTA CLARA	1,747,295	435.7	24.9	29.1	26.3	31.8
5	SIERRA	3,716	2.0	53.8 *	30.3 *	0.0	72.5
6	SAN MATEO	720,229	234.0	32.5	30.3	26.4	34.2
7	IMPERIAL	159,844	39.3	24.6	31.3	21.5	41.2
8	ALAMEDA	1,497,316	438.7	29.3	33.3	30.2	36.5
9	LOS ANGELES	10,152,410	2,893.7	28.5	33.8	32.5	35.0
10	MONTEREY	423,137	123.7	29.2	34.2	28.2	40.3
11	ORANGE	3,038,670	881.0	29.0	34.8	32.5	37.1
12	SANTA BARBARA	416,662	157.3	37.8	34.9	29.4	40.4
13	AMADOR	37,507	19.7	52.4	35.1	19.6	50.7
14	CONTRA COSTA	1,014,992	348.3	34.3	36.1	32.3	40.0
15	SANTA CRUZ	259,942	79.3	30.5	37.2	28.9	45.6
16	VENTURA	808,735	258.3	31.9	37.6	33.0	42.2
17	TUOLUMNE	57,186	34.0	59.5	39.0	25.7	52.2
18	SAN LUIS OBISPO	259,709	126.7	48.8	39.0	32.2	45.8
19	SONOMA	477,419	201.3	42.2	39.7	34.2	45.2
20	SAN BENITO	57,307	15.7	27.3 *	39.8 *	20.0	59.7
21	SAN DIEGO	3,031,055	1,087.0	35.9	40.2	37.8	42.5
22	MARIPOSA	18,066	10.0	55.4 *	40.5 *	14.9	66.0
	<b>CALIFORNIA</b>	<b>36,525,947</b>	<b>13,022.0</b>	<b>35.7</b>	<b>40.7</b>	<b>40.0</b>	<b>41.4</b>
23	NAPA	132,753	70.0	52.7	41.4	31.6	51.1
24	FRESNO	874,745	293.3	33.5	43.9	38.8	48.9
25	PLACER	302,199	154.7	51.2	45.2	38.0	52.3
26	MADERA	139,398	55.0	39.5	45.8	33.6	57.9
27	CALAVERAS	44,243	30.0	67.8	46.1	29.3	63.0
28	NEVADA	98,436	62.3	63.3	46.6	35.0	58.2
29	EL DORADO	172,320	84.0	48.7	47.2	37.0	57.3
30	TULARE	406,003	146.7	36.1	48.6	40.7	56.5
31	SACRAMENTO	1,357,367	577.7	42.6	48.9	44.9	52.9
32	MERCED	237,550	82.0	34.5	48.9	38.3	59.5
33	STANISLAUS	499,864	197.0	39.4	49.1	42.2	55.9
34	SOLANO	418,097	172.0	41.1	52.1	44.2	59.9
35	SAN JOAQUIN	645,560	273.0	42.3	52.8	46.5	59.0
36	INYO	18,923	15.3	81.0 *	53.9 *	26.6	81.2
37	YOLO	186,751	75.7	40.5	54.1	41.9	66.3
38	PLUMAS	21,478	17.3	80.7 *	54.6 *	28.8	80.4
39	RIVERSIDE	1,845,185	941.7	51.0	56.5	52.9	60.2
40	MENDOCINO	89,966	58.7	65.2	56.7	42.1	71.4
41	BUTTE	213,143	149.7	70.2	57.4	48.1	66.6
42	SISKIYOU	45,644	39.3	86.2	58.4	40.1	76.8
43	TEHAMA	59,942	42.3	70.6	59.1	41.3	76.9
44	COLUSA	20,927	11.3	54.2 *	60.9 *	25.4	96.4
45	ALPINE	1,304	1.0	76.7 *	62.8 *	0.0	186.4
46	GLENN	28,115	19.0	67.6	64.7	35.6	93.8
47	LASSEN	35,626	17.3	48.7 *	65.0 *	33.9	96.2
48	SAN BERNARDINO	1,922,467	833.0	43.3	65.6	61.1	70.1
49	KINGS	143,970	53.3	37.0	65.8	48.0	83.7
50	HUMBOLDT	130,859	84.7	64.7	65.9	51.8	80.0
51	SUTTER	87,881	55.3	63.0	66.5	48.9	84.0
52	DEL NORTE	29,162	19.7	67.4	66.9	37.2	96.5
53	SHASTA	177,465	142.7	80.4	69.2	57.8	80.6
54	TRINITY	13,961	13.3	95.5 *	70.0 *	32.0	108.1
55	KERN	744,489	383.3	51.5	76.1	68.4	83.8
56	MODOC	10,178	11.0	108.1 *	77.3 *	31.5	123.1
57	LAKE	62,994	71.3	113.2	78.3	59.9	96.6
58	YUBA	66,682	45.3	68.0	84.1	59.4	108.7

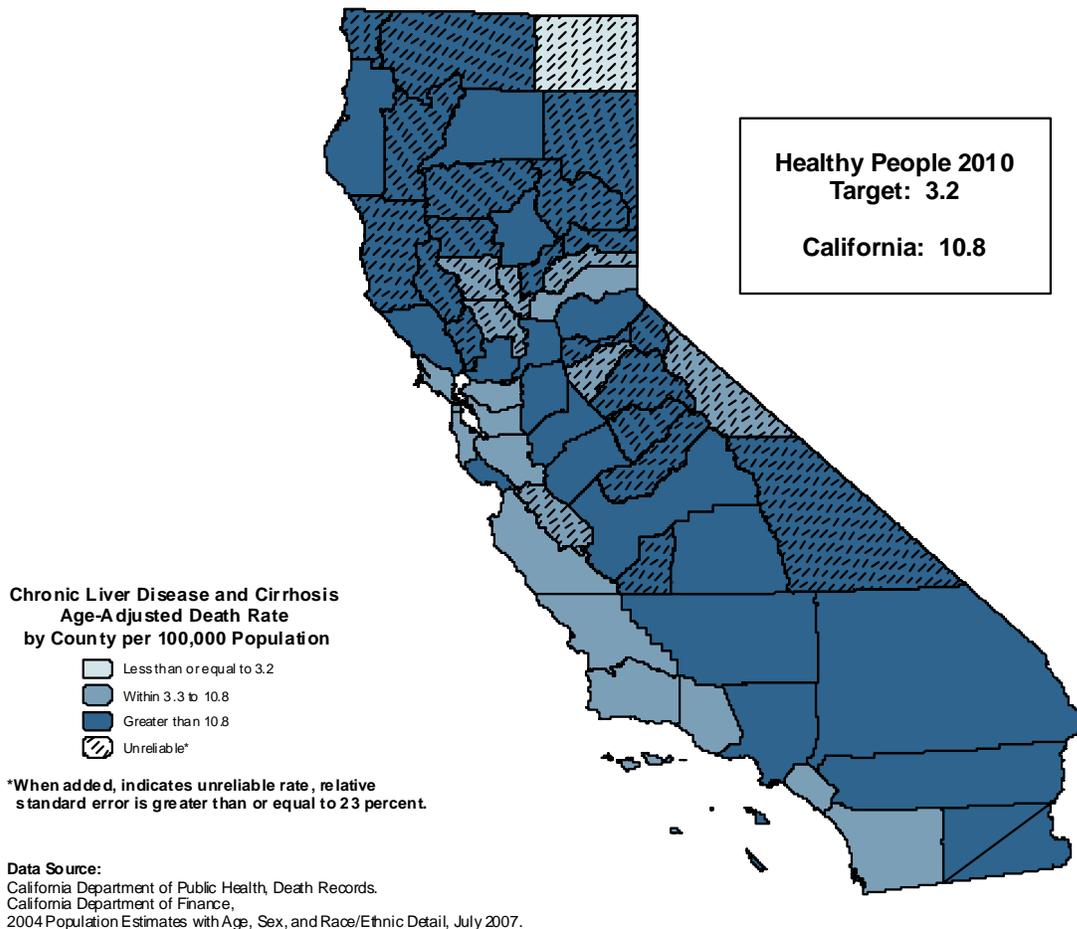
\* Death rate unreliable, relative standard error is greater than or equal to 23 percent.

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

Source: California Department of Public Health: Death Statistical Master Files, 2003-2005.

California Department of Finance: 2004 Population Estimates with Age, Sex, and Race/Ethnic Detail, July 2007.

## DEATHS DUE TO CHRONIC LIVER DISEASE AND CIRRHOSIS, 2003-2005



The crude death rate from chronic liver disease and cirrhosis for California was 10.3 deaths per 100,000 population, a risk of dying equivalent to approximately one death for every 9,666 persons. This rate was based on a three-year average number of deaths of 3,779.0 from 2003 to 2005 and a population of 36,525,947 as of July 1, 2004. Among counties with “reliable” rates, the crude rate ranged from 19.0 in Shasta County to 7.8 in Santa Clara County, a difference in rates by a factor of 2.4 to 1.

The age-adjusted death rate from chronic liver disease and cirrhosis for California for the three-year period from 2003 to 2005 was 10.8 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 18.5 in Kern County to 6.9 in Marin County.

One county (with an unreliable age-adjusted death rate) met the Healthy People 2010 National Objective 26-2 of no more than 3.2 age-adjusted deaths due to chronic liver disease and cirrhosis per 100,000 population. The statewide age-adjusted death rate for chronic liver disease and cirrhosis did not meet the national objective.

**TABLE 13  
DEATHS DUE TO CHRONIC LIVER DISEASE AND CIRRHOSIS  
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE  
CALIFORNIA COUNTIES, 2003-2005**

RANK ORDER	COUNTY	2004 POPULATION	2003-2005 DEATHS (AVERAGE)	CRUDE DEATH RATE	AGE-ADJUSTED DEATH RATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
1	MODOC	10,178	0.3	3.3 *	2.1 *	0.0	9.1
<b>HEALTHY PEOPLE 2010 NATIONAL OBJECTIVE (26-2)</b>							
					<b>3.2</b>		
2	MONO	13,727	0.7	4.9 *	4.1 *	0.0	13.9
3	MARIN	251,812	22.7	9.0	6.9	4.0	9.8
4	SANTA CLARA	1,747,295	136.3	7.8	7.9	6.6	9.3
5	CONTRA COSTA	1,014,992	91.0	9.0	8.7	6.9	10.5
6	ORANGE	3,038,670	247.3	8.1	8.8	7.7	9.9
7	SAN MATEO	720,229	68.3	9.5	8.8	6.7	10.9
8	SAN FRANCISCO	793,564	76.3	9.6	8.8	6.8	10.8
9	SAN LUIS OBISPO	259,709	25.7	9.9	8.9	5.4	12.4
10	SAN DIEGO	3,031,055	265.0	8.7	9.2	8.0	10.3
11	COLUSA	20,927	1.7	8.0 *	9.2 *	0.0	23.2
12	PLACER	302,199	32.0	10.6	9.3	6.1	12.5
13	ALAMEDA	1,497,316	137.3	9.2	9.3	7.7	10.9
14	VENTURA	808,735	76.0	9.4	9.6	7.4	11.7
15	SUTTER	87,881	8.3	9.5 *	9.7 *	3.1	16.2
16	YOLO	186,751	15.7	8.4 *	9.8 *	4.9	14.7
17	NEVADA	98,436	13.3	13.5 *	9.9 *	4.5	15.3
18	CALAVERAS	44,243	5.7	12.8 *	9.9 *	1.2	18.5
19	SANTA BARBARA	416,662	41.0	9.8	9.9	6.9	12.9
20	MONTEREY	423,137	37.7	8.9	10.1	6.8	13.3
21	SAN BENITO	57,307	5.7	9.9 *	10.7 *	1.8	19.7
	<b>CALIFORNIA</b>	<b>36,525,947</b>	<b>3,779.0</b>	<b>10.3</b>	<b>10.8</b>	<b>10.5</b>	<b>11.2</b>
22	SANTA CRUZ	259,942	28.7	11.0	11.0	6.9	15.2
23	LOS ANGELES	10,152,410	1,050.0	10.3	11.1	10.4	11.8
24	LASSEN	35,626	3.7	10.3 *	11.2 *	0.0	22.8
25	SACRAMENTO	1,357,367	146.7	10.8	11.2	9.4	13.0
26	SONOMA	477,419	57.7	12.1	11.5	8.5	14.5
27	MERCED	237,550	22.7	9.5	11.8	6.9	16.6
28	MARIPOSA	18,066	3.0	16.6 *	11.8 *	0.0	25.6
29	MADERA	139,398	16.0	11.5 *	11.8 *	6.0	17.7
30	SOLANO	418,097	48.7	11.6	12.0	8.6	15.4
31	SISKIYOU	45,644	7.0	15.3 *	12.1 *	2.8	21.3
32	EL DORADO	172,320	25.0	14.5	12.2	7.3	17.2
33	MENDOCINO	89,966	13.7	15.2 *	12.5 *	5.8	19.3
34	STANISLAUS	499,864	55.3	11.1	12.8	9.4	16.2
35	TUOLUMNE	57,186	10.0	17.5 *	12.8 *	4.7	20.9
36	NAPA	132,753	18.7	14.1 *	12.9 *	7.0	18.8
37	RIVERSIDE	1,845,185	215.3	11.7	12.9	11.2	14.6
38	SAN BERNARDINO	1,922,467	205.0	10.7	12.9	11.1	14.7
39	SAN JOAQUIN	645,560	77.0	11.9	13.7	10.7	16.8
40	TEHAMA	59,942	9.0	15.0 *	13.8 *	4.7	23.0
41	TULARE	406,003	48.0	11.8	14.5	10.4	18.6
42	AMADOR	37,507	7.3	19.6 *	14.8 *	3.9	25.7
43	KINGS	143,970	16.3	11.3 *	14.8 *	7.5	22.2
44	BUTTE	213,143	33.3	15.6	14.8	9.7	19.9
45	FRESNO	874,745	109.3	12.5	14.8	12.0	17.6
46	YUBA	66,682	9.0	13.5 *	14.9 *	5.2	24.7
47	GLENN	28,115	4.3	15.4 *	15.3 *	0.8	29.8
48	PLUMAS	21,478	4.3	20.2 *	15.5 *	0.0	31.1
49	HUMBOLDT	130,859	22.0	16.8	15.6	9.0	22.2
50	DEL NORTE	29,162	5.0	17.1 *	16.2 *	1.9	30.5
51	SHASTA	177,465	33.7	19.0	16.6	10.9	22.2
52	IMPERIAL	159,844	23.3	14.6	16.6	9.9	23.4
53	ALPINE	1,304	0.3	25.6 *	17.9 *	0.0	78.7
54	KERN	744,489	114.0	15.3	18.5	15.0	21.9
55	SIERRA	3,716	0.7	17.9 *	18.7 *	0.0	65.0
56	LAKE	62,994	16.3	25.9 *	19.7 *	9.8	29.5
57	TRINITY	13,961	4.3	31.0 *	23.5 *	0.2	46.8
58	INYO	18,923	6.3	33.5 *	25.6 *	5.3	45.8

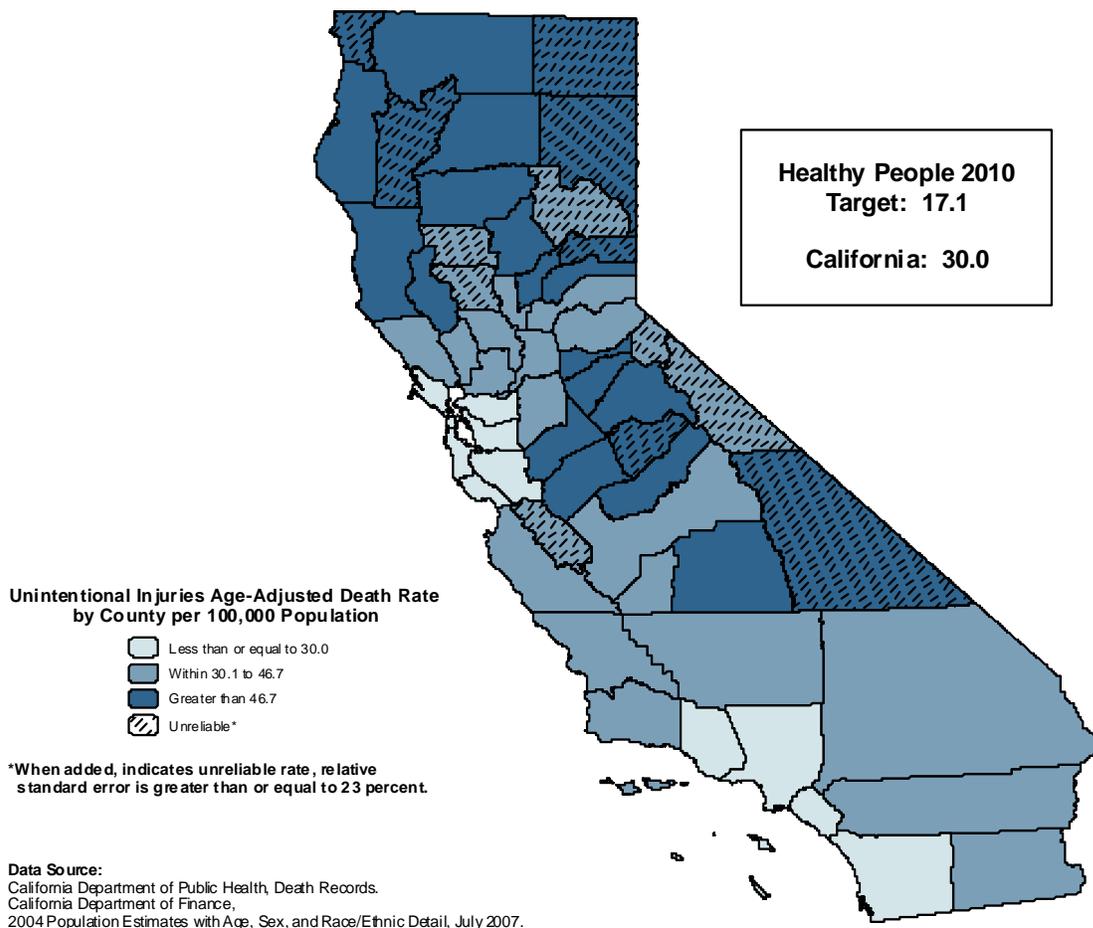
\* Death rate unreliable, relative standard error is greater than or equal to 23 percent.

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

Source: California Department of Public Health: Death Statistical Master Files, 2003-2005.

California Department of Finance: 2004 Population Estimates with Age, Sex, and Race/Ethnic Detail, July 2007.

## DEATHS DUE TO UNINTENTIONAL INJURIES, 2003-2005



The crude death rate from unintentional injuries for California was 29.2 deaths per 100,000 population, a risk of dying equivalent to approximately one death for every 3,423 persons. This rate was based on a three-year average number of deaths of 10,670.0 from 2003 to 2005 and a population of 36,525,947 as of July 1, 2004. Among counties with “reliable” rates, the crude rate ranged from 76.7 in Lake County to 19.3 in Santa Clara County, a difference in rates by a factor of 4.0 to 1.

The age-adjusted death rate from unintentional injuries for California for the three-year period from 2003 to 2005 was 30.0 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 72.2 in Tuolumne County to 19.9 in Santa Clara County.

Neither the counties nor California as a whole met the Healthy People 2010 National Objective 15-13 of no more than 17.1 age-adjusted deaths due to unintentional injuries per 100,000 population.

**TABLE 14  
DEATHS DUE TO UNINTENTIONAL INJURIES  
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE  
CALIFORNIA COUNTIES, 2003-2005**

RANK ORDER	COUNTY	2004 POPULATION	2003-2005 DEATHS (AVERAGE)	CRUDE DEATH RATE	AGE-ADJUSTED DEATH RATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
<b>HEALTHY PEOPLE 2010 NATIONAL OBJECTIVE (15-13)</b>					<b>17.1</b>		
1	SANTA CLARA	1,747,295	336.7	19.3	19.9	17.8	22.1
2	MARIN	251,812	56.7	22.5	20.3	14.8	25.8
3	SAN MATEO	720,229	158.0	21.9	21.0	17.7	24.3
4	ORANGE	3,038,670	669.0	22.0	23.0	21.3	24.8
5	LOS ANGELES	10,152,410	2,281.7	22.5	23.5	22.6	24.5
6	SAN FRANCISCO	793,564	238.0	30.0	26.7	23.2	30.2
7	ALAMEDA	1,497,316	398.7	26.6	26.9	24.2	29.5
8	CONTRA COSTA	1,014,992	284.7	28.0	28.1	24.9	31.4
9	SAN DIEGO	3,031,055	846.0	27.9	28.3	26.4	30.2
10	SANTA CRUZ	259,942	76.7	29.5	29.3	22.6	36.0
11	VENTURA	808,735	232.0	28.7	29.7	25.9	33.6
	<b>CALIFORNIA</b>	<b>36,525,947</b>	<b>10,670.0</b>	<b>29.2</b>	<b>30.0</b>	<b>29.5</b>	<b>30.6</b>
12	SANTA BARBARA	416,662	128.7	30.9	30.4	25.1	35.7
13	SAN BERNARDINO	1,922,467	539.7	28.1	30.6	28.0	33.3
14	SOLANO	418,097	127.7	30.5	32.0	26.4	37.6
15	ALPINE	1,304	0.3	25.6 *	32.3 *	0.0	141.9
16	MONTEREY	423,137	137.3	32.5	34.0	28.2	39.7
17	PLACER	302,199	109.0	36.1	34.9	28.3	41.6
18	NAPA	132,753	49.0	36.9	35.0	25.0	44.9
19	SAN BENITO	57,307	18.7	32.6 *	35.1 *	18.7	51.4
20	SAN LUIS OBISPO	259,709	99.7	38.4	35.3	28.2	42.3
21	SONOMA	477,419	175.0	36.7	35.4	30.1	40.7
22	SACRAMENTO	1,357,367	471.7	34.7	35.9	32.6	39.1
23	YOLO	186,751	59.3	31.8	36.3	26.9	45.7
24	RIVERSIDE	1,845,185	653.0	35.4	36.9	34.1	39.8
25	EL DORADO	172,320	62.7	36.4	37.0	27.4	46.6
26	COLUSA	20,927	7.7	36.6 *	37.8 *	10.6	64.9
27	IMPERIAL	159,844	66.0	41.3	39.0	28.8	49.1
28	KINGS	143,970	50.7	35.2	39.4	27.9	50.9
29	GLENN	28,115	11.7	41.5 *	42.5 *	17.9	67.0
30	MONO	13,727	6.0	43.7 *	42.8 *	7.4	78.3
31	SAN JOAQUIN	645,560	259.0	40.1	43.8	38.4	49.2
32	FRESNO	874,745	357.3	40.9	44.0	39.4	48.6
33	PLUMAS	21,478	12.0	55.9 *	44.5 *	18.3	70.8
34	SUTTER	87,881	38.0	43.2	44.7	30.4	59.0
35	KERN	744,489	320.0	43.0	46.7	41.4	51.9
36	CALAVERAS	44,243	24.0	54.2	48.0	27.4	68.6
37	NEVADA	98,436	49.3	50.1	48.7	34.0	63.4
38	MADERA	139,398	66.3	47.6	49.5	37.6	61.5
39	STANISLAUS	499,864	226.3	45.3	49.6	43.1	56.1
40	MERCED	237,550	107.3	45.2	49.9	40.2	59.6
41	DEL NORTE	29,162	15.3	52.6 *	51.1 *	25.4	76.8
42	LASSEN	35,626	17.7	49.6 *	51.3 *	26.7	75.9
43	BUTTE	213,143	114.0	53.5	51.4	41.8	61.1
44	TULARE	406,003	198.7	48.9	52.3	44.9	59.8
45	TEHAMA	59,942	33.0	55.1	53.7	35.1	72.4
46	AMADOR	37,507	23.3	62.2	54.6	31.2	77.9
47	MENDOCINO	89,966	50.3	55.9	55.0	39.5	70.6
48	INYO	18,923	11.7	61.7 *	56.3 *	21.7	90.8
49	YUBA	66,682	36.0	54.0	57.8	38.6	77.0
50	SHASTA	177,465	104.7	59.0	58.6	47.1	70.1
51	SISKIYOU	45,644	29.0	63.5	61.6	37.6	85.6
52	MARIPOSA	18,066	13.7	75.6 *	70.0 *	30.7	109.2
53	LAKE	62,994	48.3	76.7	71.9	50.5	93.3
54	HUMBOLDT	130,859	94.3	72.1	72.0	57.2	86.7
55	TUOLUMNE	57,186	43.3	75.8	72.2	49.5	94.9
56	MODOC	10,178	8.0	78.6 *	75.6 *	20.4	130.8
57	TRINITY	13,961	13.3	95.5 *	91.2 *	37.4	145.0
58	SIERRA	3,716	4.0	107.6 *	104.5 *	0.0	215.9

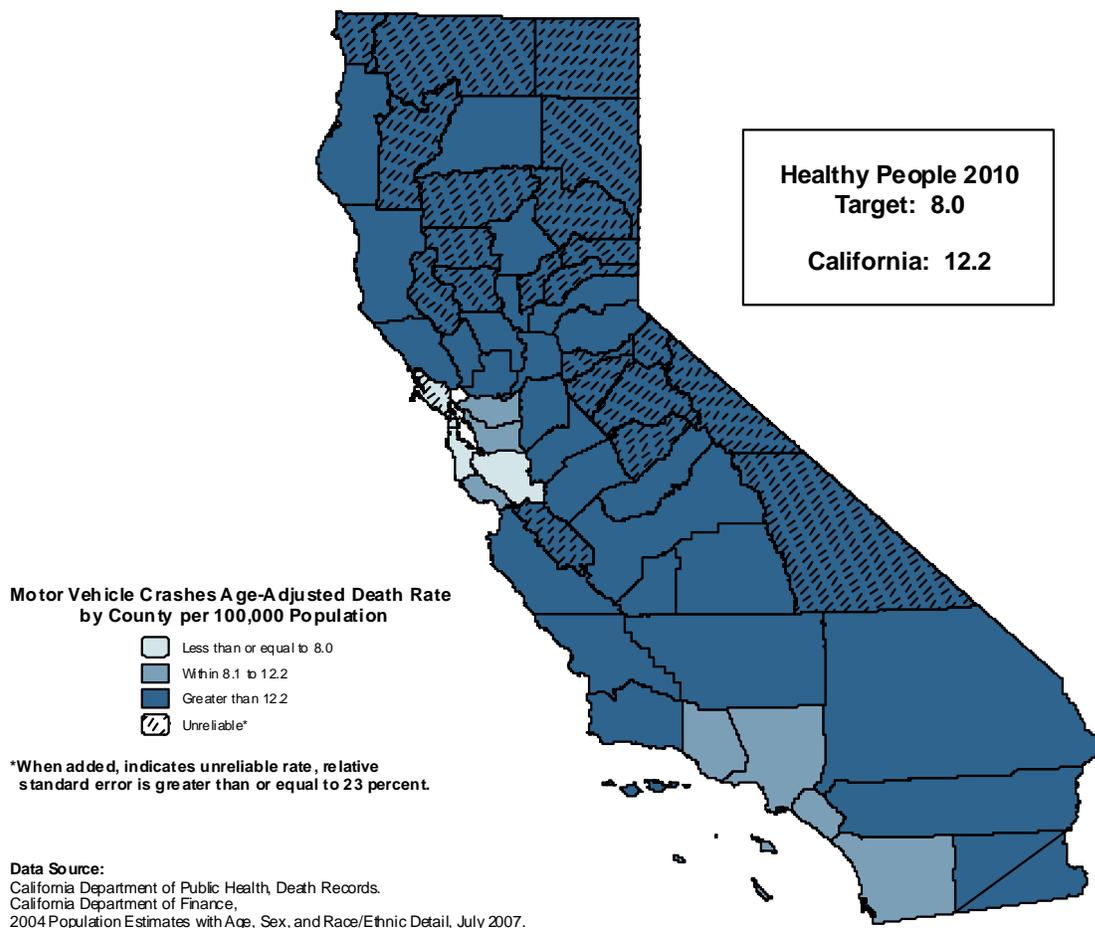
\* Death rate unreliable, relative standard error is greater than or equal to 23 percent.

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

Source: California Department of Public Health: Death Statistical Master Files, 2003-2005.

California Department of Finance: 2004 Population Estimates with Age, Sex, and Race/Ethnic Detail, July 2007.

## DEATHS DUE TO MOTOR VEHICLE CRASHES, 2003-2005



The crude death rate from motor vehicle crashes for California was 12.1 per 100,000 population, a risk of dying equivalent to approximately one death for every 8,298 persons. This rate was based on a three-year average number of deaths of 4,402.0 from 2003 to 2005 and a population of 36,525,947 as of July 1, 2004. Among counties with “reliable” rates, the crude rate ranged from 34.4 in Tuolumne County to 5.5 in San Francisco County, a difference in rates by a factor of 6.3 to 1.

The age-adjusted death rate from motor vehicle crashes for California for the three-year period from 2003 to 2005 was 12.2 per 100,000 population. Reliable age-adjusted death rates ranged from 27.1 in Sutter County to 5.3 in San Francisco County.

Four counties (three with reliable age-adjusted death rates) met the Healthy People 2010 National Objective 15-15a of no more than 8.0 age-adjusted deaths due to motor vehicle crashes per 100,000 population. The statewide age-adjusted death rate for motor vehicle crashes did not meet the national objective.

**TABLE 15  
DEATHS DUE TO MOTOR VEHICLE CRASHES  
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE  
CALIFORNIA COUNTIES, 2003-2005**

RANK ORDER	COUNTY	2004 POPULATION	2003-2005 DEATHS (AVERAGE)	CRUDE DEATH RATE	AGE-ADJUSTED DEATH RATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
1	SAN FRANCISCO	793,564	44.0	5.5	5.3	3.6	6.9
2	MARIN	251,812	15.3	6.1 *	6.5 *	3.1	9.8
3	SAN MATEO	720,229	50.0	6.9	7.0	5.0	8.9
4	SANTA CLARA	1,747,295	122.7	7.0	7.3	6.0	8.6
<b>HEALTHY PEOPLE 2010 NATIONAL OBJECTIVE (15-15a)</b>					<b>8.0</b>		
5	ORANGE	3,038,670	252.0	8.3	8.4	7.4	9.5
6	ALAMEDA	1,497,316	130.0	8.7	8.7	7.2	10.2
7	LOS ANGELES	10,152,410	946.3	9.3	9.7	9.0	10.3
8	CONTRA COSTA	1,014,992	101.3	10.0	10.1	8.1	12.1
9	VENTURA	808,735	84.3	10.4	10.5	8.3	12.8
10	SAN DIEGO	3,031,055	318.3	10.5	10.6	9.4	11.7
11	SANTA CRUZ	259,942	28.7	11.0	10.7	6.7	14.6
<b>CALIFORNIA</b>		<b>36,525,947</b>	<b>4,402.0</b>	<b>12.1</b>	<b>12.2</b>	<b>11.8</b>	<b>12.6</b>
12	SANTA BARBARA	416,662	52.7	12.6	12.4	9.0	15.7
13	SACRAMENTO	1,357,367	171.3	12.6	12.8	10.9	14.7
14	SONOMA	477,419	61.0	12.8	12.9	9.6	16.1
15	PLACER	302,199	38.7	12.8	13.1	8.9	17.3
16	SOLANO	418,097	55.7	13.3	13.3	9.8	16.8
17	YOLO	186,751	24.7	13.2	13.7	8.1	19.3
18	MONTEREY	423,137	58.0	13.7	13.8	10.2	17.4
19	SAN JOAQUIN	645,560	90.3	14.0	14.7	11.6	17.8
20	NAPA	132,753	19.7	14.8	14.8	8.2	21.4
21	SAN LUIS OBISPO	259,709	41.0	15.8	15.1	10.3	19.8
22	EL DORADO	172,320	25.3	14.7	15.3	9.1	21.5
23	PLUMAS	21,478	4.7	21.7 *	16.4 *	1.3	31.5
24	RIVERSIDE	1,845,185	317.7	17.2	17.4	15.5	19.3
25	SAN BERNARDINO	1,922,467	326.7	17.0	17.5	15.5	19.4
26	SHASTA	177,465	32.3	18.2	17.9	11.6	24.2
27	SAN BENITO	57,307	10.3	18.0 *	18.1 *	6.8	29.3
28	BUTTE	213,143	39.7	18.6	18.5	12.6	24.4
29	STANISLAUS	499,864	89.0	17.8	18.7	14.8	22.6
30	NEVADA	98,436	17.3	17.6 *	18.8 *	9.3	28.3
31	IMPERIAL	159,844	30.7	19.2	19.5	12.5	26.4
32	KINGS	143,970	28.7	19.9	20.5	12.6	28.4
33	FRESNO	874,745	181.3	20.7	20.9	17.8	24.0
34	KERN	744,489	155.7	20.9	21.3	17.9	24.7
35	MONO	13,727	3.3	24.3 *	21.7 *	0.0	45.2
36	MENDOCINO	89,966	19.7	21.9	22.0	12.1	31.9
37	GLENN	28,115	6.3	22.5 *	22.4 *	4.8	40.1
38	INYO	18,923	4.7	24.7 *	22.5 *	1.5	43.4
39	HUMBOLDT	130,859	29.7	22.7	22.5	14.2	30.7
40	COLUSA	20,927	4.7	22.3 *	22.7 *	1.7	43.6
41	YUBA	66,682	15.7	23.5 *	24.1 *	12.0	36.2
42	SISKIYOU	45,644	10.3	22.6 *	24.6 *	8.7	40.6
43	LASSEN	35,626	9.3	26.2 *	25.1 *	8.7	41.5
44	MADERA	139,398	34.3	24.6	25.1	16.7	33.6
45	DEL NORTE	29,162	7.7	26.3 *	25.2 *	7.2	43.2
46	MERCED	237,550	60.3	25.4	25.6	19.0	32.2
47	TULARE	406,003	104.3	25.7	26.4	21.2	31.5
48	SUTTER	87,881	23.3	26.6	27.1	16.0	38.2
49	AMADOR	37,507	11.0	29.3 *	27.3 *	10.2	44.4
50	TEHAMA	59,942	16.7	27.8 *	27.6 *	14.1	41.0
51	MARIPOSA	18,066	5.7	31.4 *	29.7 *	3.8	55.5
52	LAKE	62,994	19.0	30.2	30.1 *	15.8	44.4
53	ALPINE	1,304	0.3	25.6 *	32.3 *	0.0	141.9
54	TUOLUMNE	57,186	19.7	34.4	34.2 *	18.3	50.1
55	CALAVERAS	44,243	16.7	37.7 *	34.5 *	16.8	52.2
56	MODOC	10,178	3.7	36.0 *	36.6 *	0.0	76.2
57	TRINITY	13,961	7.3	52.5 *	56.2 *	11.1	101.3
58	SIERRA	3,716	3.0	80.7 *	86.1 *	0.0	191.2

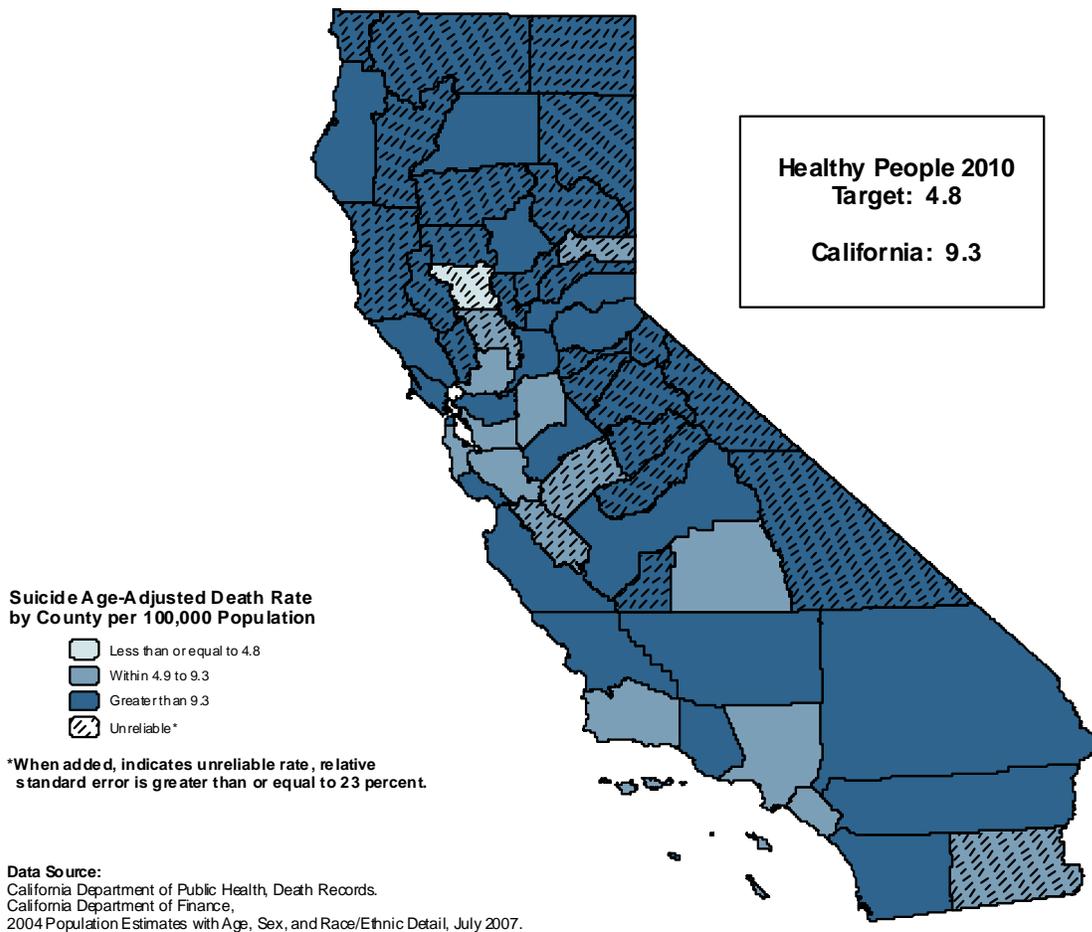
\* Death rate unreliable, relative standard error is greater than or equal to 23 percent.

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

Source: California Department of Public Health: Death Statistical Master Files, 2003-2005.

California Department of Finance: 2004 Population Estimates with Age, Sex, and Race/Ethnic Detail, July 2007.

## DEATHS DUE TO SUICIDE, 2003-2005



The crude death rate from suicide for California was 9.1 deaths per 100,000 population, a risk of dying equivalent to approximately one death for every 11,015 persons. This rate was based on a three-year average number of deaths of 3,316.0 from 2003 to 2005 and a population of 36,525,947 as of July 1, 2004. Among counties with “reliable” rates, the crude rate ranged from 20.9 in Humboldt County to 7.0 in Los Angeles County, a difference in rates by a factor of 3.0 to 1.

The age-adjusted death rate from suicide for California for the three-year period from 2003 to 2005 was 9.3 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 20.2 in Humboldt County to 7.2 in Los Angeles County.

One county (with an unreliable age-adjusted death rate) met the Healthy People 2010 National Objective 18-1 of no more than 4.8 age-adjusted deaths due to suicide per 100,000 population. The statewide age-adjusted death rate for suicide did not meet the national objective.

**TABLE 16  
DEATHS DUE TO SUICIDE  
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE  
CALIFORNIA COUNTIES, 2003-2005**

RANK ORDER	COUNTY	2004 POPULATION	2003-2005 DEATHS (AVERAGE)	CRUDE DEATH RATE	AGE-ADJUSTED DEATH RATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
1	COLUSA	20,927	0.3	1.6 *	1.6 *	0.0	7.1
<b>HEALTHY PEOPLE 2010 NATIONAL OBJECTIVE (18-1)</b>					<b>4.8</b>		
2	IMPERIAL	159,844	10.0	6.3 *	6.7 *	2.5	11.0
3	SIERRA	3,716	0.3	9.0 *	7.0 *	0.0	30.8
4	LOS ANGELES	10,152,410	706.0	7.0	7.2	6.7	7.8
5	SANTA CLARA	1,747,295	130.7	7.5	7.5	6.2	8.8
6	ALAMEDA	1,497,316	116.7	7.8	7.7	6.3	9.1
7	YOLO	186,751	13.7	7.3 *	7.8 *	3.6	12.0
8	SAN JOAQUIN	645,560	46.0	7.1	7.9	5.6	10.2
9	ORANGE	3,038,670	245.0	8.1	8.3	7.2	9.3
10	MERCED	237,550	17.7	7.4 *	8.4 *	4.4	12.4
11	SANTA BARBARA	416,662	36.7	8.8	8.7	5.8	11.5
12	SAN BENITO	57,307	5.0	8.7 *	8.8 *	1.1	16.5
13	SAN MATEO	720,229	68.7	9.5	9.1	6.9	11.3
14	TULARE	406,003	34.7	8.5	9.1	6.0	12.2
15	SOLANO	418,097	38.3	9.2	9.3	6.3	12.3
<b>CALIFORNIA</b>		<b>36,525,947</b>	<b>3,316.0</b>	<b>9.1</b>	<b>9.3</b>	<b>9.0</b>	<b>9.6</b>
16	FRESNO	874,745	76.7	8.8	9.4	7.2	11.5
17	KINGS	143,970	12.3	8.6 *	9.4 *	3.9	14.9
18	MONTEREY	423,137	37.7	8.9	9.4	6.4	12.4
19	VENTURA	808,735	75.3	9.3	9.6	7.4	11.8
20	CONTRA COSTA	1,014,992	97.0	9.6	9.6	7.7	11.5
21	NAPA	132,753	13.0	9.8 *	9.6 *	4.3	14.9
22	MADERA	139,398	13.3	9.6 *	10.1 *	4.6	15.5
23	RIVERSIDE	1,845,185	175.3	9.5	10.1	8.6	11.6
24	SAN DIEGO	3,031,055	311.3	10.3	10.5	9.3	11.6
25	SAN BERNARDINO	1,922,467	183.3	9.5	10.6	9.0	12.1
26	SAN FRANCISCO	793,564	93.3	11.8	10.7	8.5	13.0
27	SUTTER	87,881	9.0	10.2 *	10.8 *	3.7	17.9
28	KERN	744,489	74.0	9.9	11.0	8.5	13.6
29	SAN LUIS OBISPO	259,709	31.0	11.9	11.3	7.3	15.4
30	PLACER	302,199	34.7	11.5	11.5	7.6	15.3
31	MARIN	251,812	33.0	13.1	11.6	7.5	15.8
32	STANISLAUS	499,864	53.3	10.7	11.7	8.5	14.8
33	TEHAMA	59,942	7.3	12.2 *	12.3 *	3.2	21.3
34	SONOMA	477,419	61.3	12.8	12.3	9.2	15.5
35	SACRAMENTO	1,357,367	164.3	12.1	12.4	10.5	14.2
36	SANTA CRUZ	259,942	33.7	13.0	12.8	8.4	17.2
37	GLENN	28,115	3.7	13.0 *	13.3 *	0.0	27.0
38	NEVADA	98,436	14.7	14.9 *	13.8 *	6.2	21.3
39	EL DORADO	172,320	25.7	14.9	14.0	8.4	19.6
40	MONO	13,727	2.0	14.6 *	14.9 *	0.0	35.6
41	DEL NORTE	29,162	4.7	16.0 *	15.3 *	1.4	29.2
42	LASSEN	35,626	5.7	15.9 *	16.0 *	2.6	29.3
43	SHASTA	177,465	30.3	17.1	16.7	10.6	22.8
44	LAKE	62,994	11.0	17.5 *	16.9 *	6.4	27.4
45	BUTTE	213,143	37.0	17.4	17.1	11.5	22.7
46	MENDOCINO	89,966	17.0	18.9 *	18.8 *	9.6	27.9
47	AMADOR	37,507	7.7	20.4 *	19.0 *	4.9	33.2
48	YUBA	66,682	11.7	17.5 *	19.5 *	8.2	30.8
49	HUMBOLDT	130,859	27.3	20.9	20.2	12.5	27.9
50	INYO	18,923	4.3	22.9 *	20.5 *	0.0	41.3
51	CALAVERAS	44,243	10.0	22.6 *	22.0 *	7.2	36.8
52	SISKIYOU	45,644	11.0	24.1 *	22.1 *	8.0	36.2
53	TUOLUMNE	57,186	13.3	23.3 *	22.2 *	9.7	34.6
54	MODOC	10,178	2.3	22.9 *	22.4 *	0.0	53.1
55	MARIPOSA	18,066	4.0	22.1 *	23.1 *	0.0	47.0
56	PLUMAS	21,478	5.7	26.4 *	23.6 *	2.7	44.6
57	TRINITY	13,961	6.3	45.4 *	48.5 *	6.6	90.4
58	ALPINE	1,304	0.7	51.1 *	64.1 *	0.0	218.1

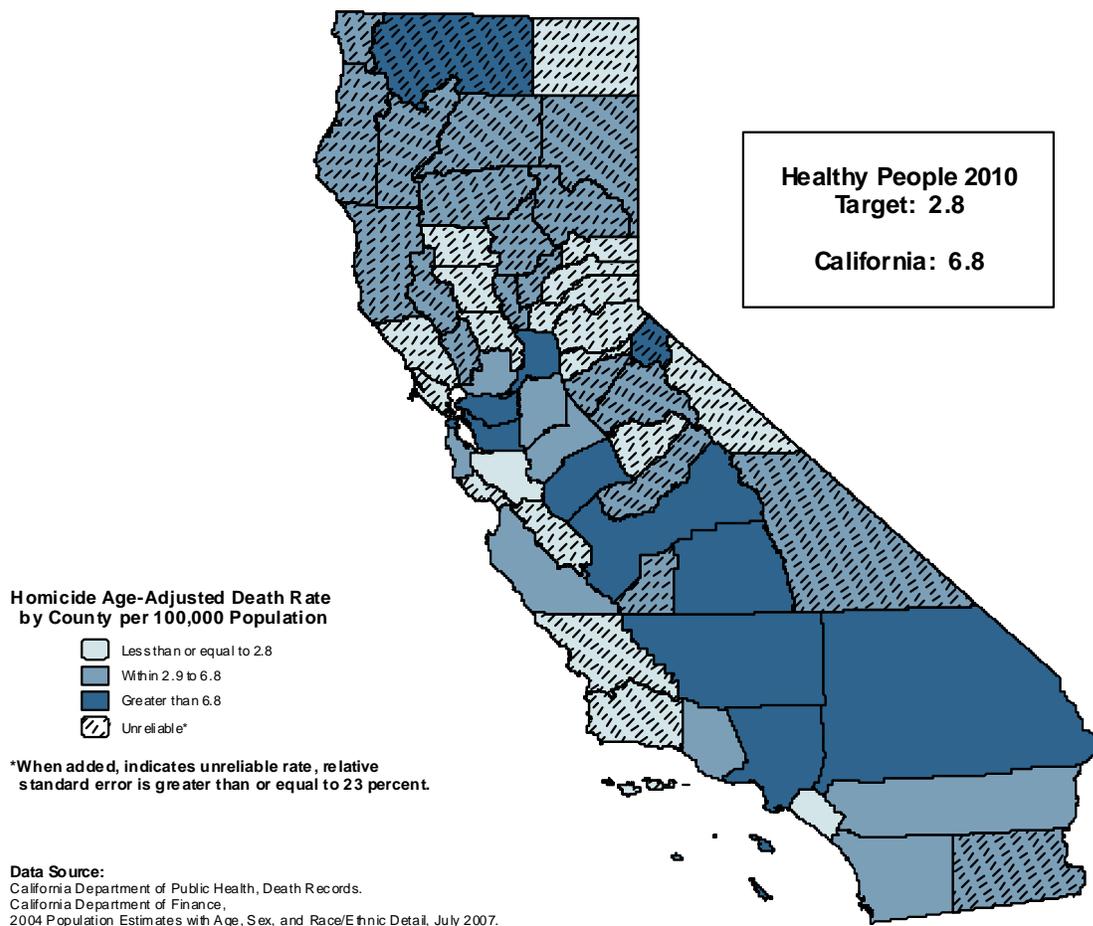
\* Death rate unreliable, relative standard error is greater than or equal to 23 percent.

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

Source: California Department of Public Health: Death Statistical Master Files, 2003-2005.

California Department of Finance: 2004 Population Estimates with Age, Sex, and Race/Ethnic Detail, July 2007.

## DEATHS DUE TO HOMICIDE, 2003-2005



The crude death rate from homicide for California was 6.8 deaths per 100,000 population, a risk of dying equivalent to approximately one death for every 14,614 persons. This rate was based on a three-year average number of deaths of 2,499.3 from 2003 to 2005 and a population of 36,525,947 as of July 1, 2004. Among counties with “reliable” rates, the crude rate ranged from 10.5 in Los Angeles County to 2.7 in Orange and Santa Clara Counties, a difference in rates by a factor of 3.9 to 1.

The age-adjusted death rate from homicide for California for the three-year period from 2003 to 2005 was 6.8 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 10.6 in Los Angeles County to 2.6 in Orange County.

Nineteen counties (two with reliable age-adjusted death rates) met the Healthy People 2010 National Objective 15-32 of no more than 2.8 age-adjusted deaths due to homicide per 100,000 population. The statewide age-adjusted death rate for homicide did not meet the national objective.

**TABLE 17  
DEATHS DUE TO HOMICIDE  
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE  
CALIFORNIA COUNTIES, 2003-2005**

RANK ORDER	COUNTY	2004 POPULATION	2003-2005 DEATHS (AVERAGE)	CRUDE DEATH RATE	AGE-ADJUSTED DEATH RATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
1	GLENN	28,115	0.0	-	-	-	-
2	COLUSA	20,927	0.0	-	-	-	-
3	MARIPOSA	18,066	0.0	-	-	-	-
4	MONO	13,727	0.0	-	-	-	-
5	MODOC	10,178	0.0	-	-	-	-
6	SIERRA	3,716	0.0	-	-	-	-
7	AMADOR	37,507	0.7	1.8 *	0.9 *	0.0	3.9
8	NEVADA	98,436	1.7	1.7 *	1.2 *	0.0	3.1
9	SANTA BARBARA	416,662	6.3	1.5 *	1.5 *	0.3	2.7
10	MARIN	251,812	4.7	1.9 *	1.9 *	0.1	3.6
11	SAN BENITO	57,307	1.0	1.7 *	2.0 *	0.0	5.9
12	PLACER	302,199	6.0	2.0 *	2.0 *	0.4	3.6
13	SAN LUIS OBISPO	259,709	5.7	2.2 *	2.1 *	0.3	3.9
14	YOLO	186,751	4.0	2.1 *	2.2 *	0.0	4.4
15	EL DORADO	172,320	4.0	2.3 *	2.4 *	0.0	5.0
16	ORANGE	3,038,670	81.0	2.7	2.6	2.1	3.2
17	SANTA CRUZ	259,942	7.7	2.9 *	2.8 *	0.8	4.8
18	SONOMA	477,419	13.7	2.9 *	2.8 *	1.3	4.3
19	SANTA CLARA	1,747,295	47.7	2.7	2.8	2.0	3.6
<b>HEALTHY PEOPLE 2010 NATIONAL OBJECTIVE (15-32)</b>					<b>2.8</b>		
20	TEHAMA	59,942	1.7	2.8 *	2.9 *	0.0	7.3
21	NAPA	132,753	3.7	2.8 *	3.0 *	0.0	6.1
22	TRINITY	13,961	0.3	2.4 *	3.2 *	0.0	14.0
23	BUTTE	213,143	7.7	3.6 *	3.3 *	0.9	5.7
24	IMPERIAL	159,844	5.3	3.3 *	3.5 *	0.5	6.6
25	KINGS	143,970	5.3	3.7 *	3.6 *	0.4	6.8
26	CALAVERAS	44,243	2.0	4.5 *	3.9 *	0.0	9.5
27	INYO	18,923	1.0	5.3 *	4.0 *	0.0	11.8
28	SAN DIEGO	3,031,055	127.7	4.2	4.1	3.4	4.8
29	LAKE	62,994	2.7	4.2 *	4.1 *	0.0	9.3
30	SHASTA	177,465	7.0	3.9 *	4.2 *	1.0	7.3
31	DEL NORTE	29,162	1.3	4.6 *	4.2 *	0.0	11.2
32	PLUMAS	21,478	1.0	4.7 *	4.3 *	0.0	13.3
33	VENTURA	808,735	37.3	4.6	4.6	3.1	6.1
34	TUOLUMNE	57,186	3.0	5.2 *	4.7 *	0.0	10.4
35	SAN MATEO	720,229	32.3	4.5	4.8	3.1	6.5
36	YUBA	66,682	3.7	5.5 *	5.0 *	0.0	10.2
37	LASSEN	35,626	1.7	4.7 *	4.7 *	0.0	13.4
38	HUMBOLDT	130,859	7.0	5.3 *	5.4 *	1.4	9.5
39	MONTEREY	423,137	25.0	5.9	5.6	3.4	7.8
40	RIVERSIDE	1,845,185	107.3	5.8	5.8	4.7	6.9
41	SUTTER	87,881	5.0	5.7 *	5.9 *	0.7	11.1
42	STANISLAUS	499,864	31.7	6.3	6.4	4.2	8.7
43	MADERA	139,398	9.0	6.5 *	6.6 *	2.3	10.9
44	SOLANO	418,097	28.0	6.7	6.6	4.2	9.1
45	SAN JOAQUIN	645,560	43.3	6.7	6.7	4.7	8.8
46	MENDOCINO	89,966	5.3	5.9 *	6.7 *	0.9	12.6
<b>CALIFORNIA</b>		<b>36,525,947</b>	<b>2,499.3</b>	<b>6.8</b>	<b>6.8</b>	<b>6.5</b>	<b>7.0</b>
47	SACRAMENTO	1,357,367	98.3	7.2	7.2	5.8	8.6
48	SISKIYOU	45,644	2.7	5.8 *	7.3 *	0.0	16.6
49	KERN	744,489	56.0	7.5	7.4	5.4	9.3
50	TULARE	406,003	32.7	8.0	7.6	4.9	10.2
51	FRESNO	874,745	72.7	8.3	8.1	6.2	10.0
52	ALAMEDA	1,497,316	127.0	8.5	8.3	6.8	9.7
53	MERCED	237,550	20.7	8.7	8.6	4.8	12.4
54	CONTRA COSTA	1,014,992	85.0	8.4	8.7	6.8	10.5
55	SAN BERNARDINO	1,922,467	180.0	9.4	9.0	7.7	10.4
56	SAN FRANCISCO	793,564	66.7	8.4	9.4	7.0	11.9
57	LOS ANGELES	10,152,410	1,067.0	10.5	10.6	10.0	11.2
58	ALPINE	1,304	0.3	25.6 *	22.2 *	0.0	97.6

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

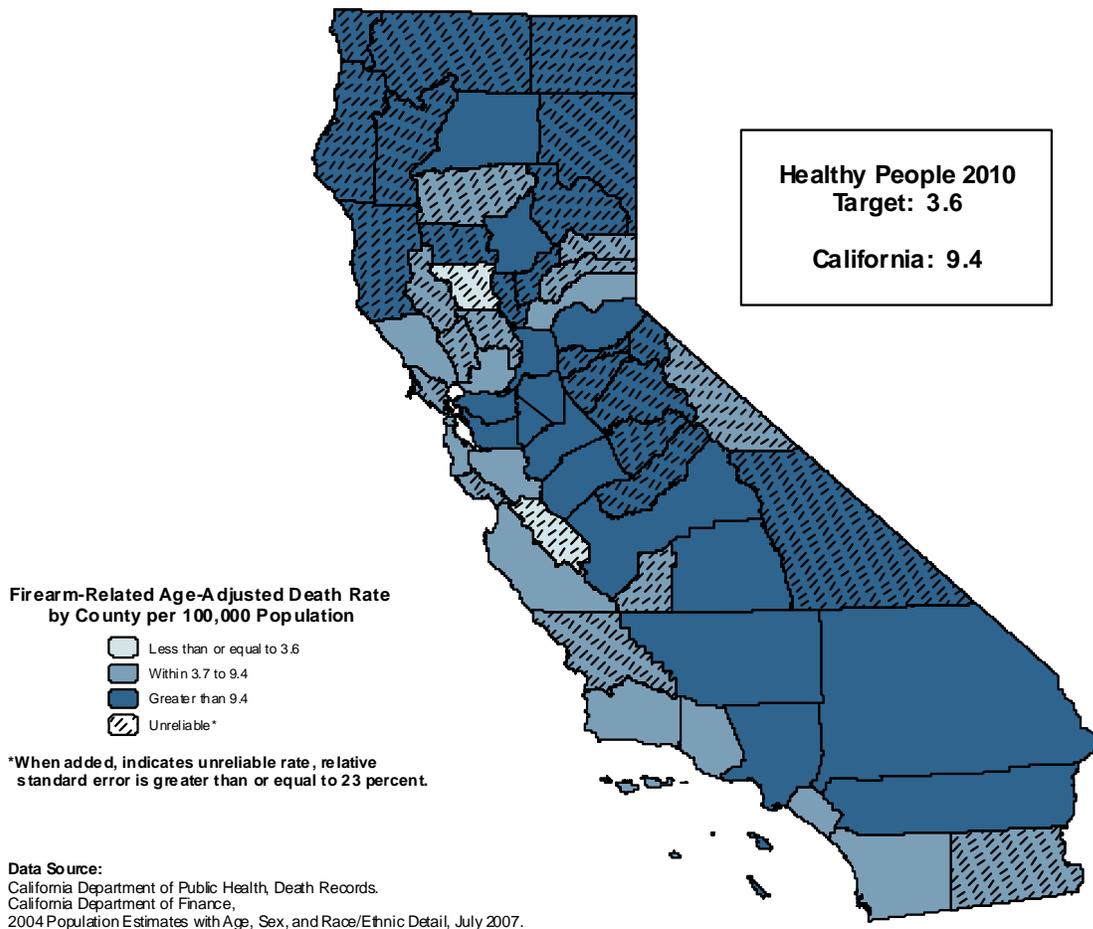
\* Death rate unreliable, relative standard error is greater than or equal to 23 percent.

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

Source: California Department of Public Health: Death Statistical Master Files, 2003-2005.

California Department of Finance: 2004 Population Estimates with Age, Sex, and Race/Ethnic Detail, July 2007.

## FIREARM-RELATED DEATHS, 2003-2005



The crude death rate from firearm-related injuries for California was 9.3 deaths per 100,000 population, a risk of dying equivalent to approximately one death for every 10,722 persons. This rate was based on the three-year average number of deaths of 3,406.7 from 2003 to 2005 and a population of 36,525,947 as of July 1, 2004. Among counties with “reliable” rates, the crude rate ranged from 14.8 in Humboldt County to 3.9 in Santa Clara County, a difference in rates by a factor of 3.8 to 1.

The age-adjusted death rate from firearm-related injuries for California for the three-year period from 2003 to 2005 was 9.4 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 13.1 in Shasta County to 4.0 in Santa Clara County.

Two counties (none with reliable age-adjusted death rates) met the Healthy People 2010 National Objective 15-3 of no more than 3.6 age-adjusted deaths due to firearm-related injuries per 100,000 population. The statewide age-adjusted death rate for firearm-related deaths did not meet the national objective.

**TABLE 18  
FIREARM-RELATED DEATHS  
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE  
CALIFORNIA COUNTIES, 2003-2005**

RANK ORDER	COUNTY	2004 POPULATION	2003-2005 DEATHS (AVERAGE)	CRUDE DEATH RATE	AGE-ADJUSTED DEATH RATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
1	COLUSA	20,927	0.7	3.2 *	2.9 *	0.0	9.8
2	SAN BENITO	57,307	1.7	2.9 *	2.9 *	0.0	7.3
<b>HEALTHY PEOPLE 2010 NATIONAL OBJECTIVE (15-3)</b>					<b>3.6</b>		
3	SANTA CLARA	1,747,295	68.7	3.9	4.0	3.1	5.0
4	SANTA BARBARA	416,662	19.3	4.6	4.6	2.5	6.6
5	MARIN	251,812	15.0	6.0 *	5.1 *	2.4	7.8
6	YOLO	186,751	8.7	4.6 *	5.2 *	1.7	8.7
7	ORANGE	3,038,670	158.7	5.2	5.4	4.5	6.2
8	IMPERIAL	159,844	8.3	5.2 *	5.7 *	1.8	9.6
9	SANTA CRUZ	259,942	15.0	5.8 *	5.7 *	2.8	8.6
10	KINGS	143,970	7.0	4.9 *	5.9 *	1.2	10.5
11	NAPA	132,753	8.7	6.5 *	6.3 *	2.0	10.5
12	PLACER	302,199	20.0	6.6	6.3	3.5	9.1
13	SAN LUIS OBISPO	259,709	18.7	7.2 *	6.5 *	3.5	9.6
14	NEVADA	98,436	7.7	7.8 *	6.6 *	1.6	11.5
15	SIERRA	3,716	0.3	9.0 *	7.0 *	0.0	30.8
16	SAN MATEO	720,229	49.7	6.9	7.0	5.1	9.0
17	SONOMA	477,419	36.3	7.6	7.4	5.0	9.8
18	SAN DIEGO	3,031,055	222.0	7.3	7.4	6.4	8.4
19	VENTURA	808,735	60.0	7.4	7.5	5.6	9.4
20	TEHAMA	59,942	4.7	7.8 *	7.5 *	0.6	14.4
21	MONO	13,727	1.0	7.3 *	7.6 *	0.0	22.6
22	MONTEREY	423,137	33.7	8.0	8.0	5.3	10.7
23	SOLANO	418,097	35.7	8.5	8.6	5.8	11.4
24	LAKE	62,994	6.3	10.1 *	9.1 *	1.7	16.5
25	SAN FRANCISCO	793,564	66.0	8.3	9.1	6.7	11.5
<b>CALIFORNIA</b>		<b>36,525,947</b>	<b>3,406.7</b>	<b>9.3</b>	<b>9.4</b>	<b>9.1</b>	<b>9.7</b>
26	ALAMEDA	1,497,316	142.7	9.5	9.5	8.0	11.1
27	STANISLAUS	499,864	45.7	9.1	9.6	6.8	12.4
28	RIVERSIDE	1,845,185	176.7	9.6	9.8	8.4	11.3
29	SACRAMENTO	1,357,367	137.0	10.1	10.2	8.5	11.9
30	BUTTE	213,143	24.0	11.3	10.4	6.2	14.7
31	SAN JOAQUIN	645,560	65.3	10.1	10.7	8.1	13.3
32	FRESNO	874,745	93.0	10.6	10.7	8.5	12.9
33	MERCED	237,550	25.3	10.7	10.8	6.5	15.2
34	CONTRA COSTA	1,014,992	109.7	10.8	11.1	9.0	13.2
35	DEL NORTE	29,162	3.3	11.4 *	11.2 *	0.0	23.2
36	MADERA	139,398	15.0	10.8 *	11.4 *	5.6	17.1
37	KERN	744,489	81.0	10.9	11.4	8.9	14.0
38	SUTTER	87,881	9.7	11.0 *	11.4 *	4.2	18.7
39	AMADOR	37,507	5.3	14.2 *	11.6 *	1.0	22.3
40	LOS ANGELES	10,152,410	1,182.0	11.6	11.9	11.2	12.6
41	EL DORADO	172,320	21.3	12.4	12.0	6.7	17.3
42	SAN BERNARDINO	1,922,467	226.3	11.8	12.1	10.5	13.7
43	MARIPOSA	18,066	2.0	11.1 *	12.7 *	0.0	31.4
44	TULARE	406,003	52.7	13.0	13.0	9.4	16.6
45	SHASTA	177,465	23.0	13.0	13.1	7.6	18.6
46	GLENN	28,115	3.7	13.0 *	13.1 *	0.0	26.6
47	MENDOCINO	89,966	11.3	12.6 *	13.1 *	5.3	20.9
48	HUMBOLDT	130,859	19.3	14.8	14.1 *	7.7	20.5
49	LASSEN	35,626	4.7	13.1 *	14.3 *	1.0	27.6
50	PLUMAS	21,478	4.0	18.6 *	15.6 *	0.0	31.8
51	TUOLUMNE	57,186	10.0	17.5 *	16.7 *	5.8	27.6
52	INYO	18,923	4.0	21.1 *	17.2 *	0.0	35.6
53	MODOC	10,178	1.7	16.4 *	17.4 *	0.0	45.5
54	YUBA	66,682	10.7	16.0 *	17.4 *	6.8	28.0
55	CALAVERAS	44,243	8.0	18.1 *	17.4 *	4.4	30.4
56	SISKIYOU	45,644	8.7	19.0 *	18.9 *	5.4	32.4
57	TRINITY	13,961	5.3	38.2 *	38.7 *	3.2	74.3
58	ALPINE	1,304	0.7	51.1 *	64.1 *	0.0	218.1

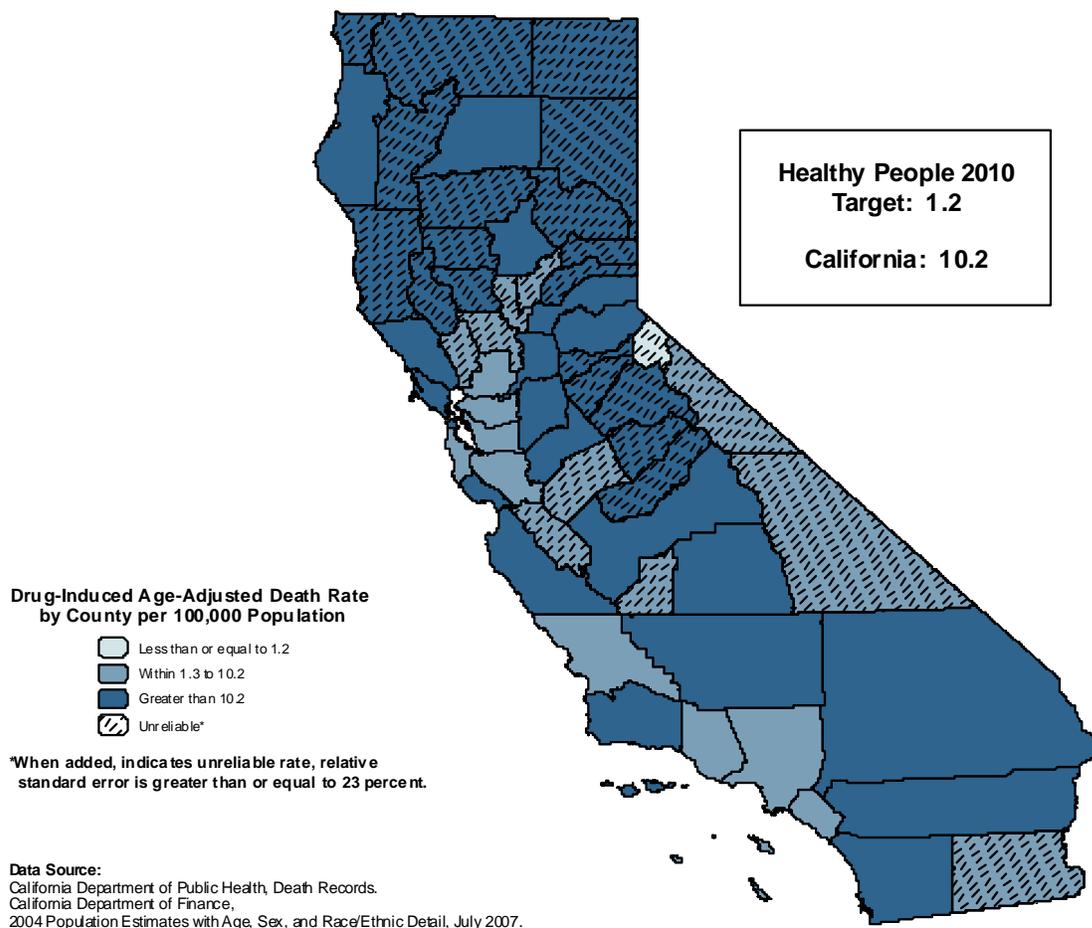
\* Death rate unreliable, relative standard error is greater than or equal to 23 percent.

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

Source: California Department of Public Health: Death Statistical Master Files, 2003-2005.

California Department of Finance: 2004 Population Estimates with Age, Sex, and Race/Ethnic Detail, July 2007.

## DRUG-INDUCED DEATHS, 2003-2005



The crude death rate from drug-induced deaths for California was 10.1 deaths per 100,000 population, a risk of dying equivalent to approximately one death for every 9,892 persons. This rate was based on a three-year average number of deaths of 3,692.3 from 2003 to 2005 and a population of 36,525,947 as of July 1, 2004. Among counties with “reliable” rates, the crude rate ranged from 31.6 in Humboldt County to 5.9 in Santa Clara County, a difference in rates by a factor of 5.4 to 1.

The age-adjusted death rate from drug-induced deaths for California for the three-year period from 2003 to 2005 was 10.2 deaths per 100,000 population. Reliable age-adjusted death rates ranged from 31.5 in Humboldt County to 5.6 in Santa Clara County.

One county (with an unreliable age-adjusted death rate) met the Healthy People 2010 National Objective 26-3 of no more than 1.2 age-adjusted drug-induced deaths per 100,000 population. The statewide age-adjusted death rate for drug-induced deaths did not meet the national objective.

**TABLE 19  
DRUG-INDUCED DEATHS  
RANKED BY THREE-YEAR AVERAGE AGE-ADJUSTED DEATH RATE  
CALIFORNIA COUNTIES, 2003-2005**

RANK ORDER	COUNTY	2004 POPULATION	2003-2005 DEATHS (AVERAGE)	CRUDE DEATH RATE	AGE-ADJUSTED DEATH RATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
1	ALPINE	1,304	0.0	-	-	-	-
<b>HEALTHY PEOPLE 2010 NATIONAL OBJECTIVE (26-3)</b>							
					<b>1.2</b>		
2	MONO	13,727	0.7	4.9 *	4.5 *	0.0	15.2
3	SANTA CLARA	1,747,295	102.3	5.9	5.6	4.5	6.7
4	YUBA	66,682	3.7	5.5 *	5.7 *	0.0	11.6
5	NAPA	132,753	9.0	6.8 *	6.7 *	2.3	11.2
6	SUTTER	87,881	5.7	6.4 *	6.7 *	1.2	12.3
7	YOLO	186,751	11.7	6.2 *	6.8 *	2.9	10.7
8	INYO	18,923	1.0	5.3 *	6.9 *	0.0	21.4
9	SAN MATEO	720,229	55.7	7.7	7.3	5.3	9.2
10	IMPERIAL	159,844	11.3	7.1 *	7.5 *	3.1	12.0
11	KINGS	143,970	10.3	7.2 *	8.0 *	3.0	13.1
12	ORANGE	3,038,670	248.3	8.2	8.1	7.1	9.1
13	LOS ANGELES	10,152,410	823.0	8.1	8.2	7.6	8.7
14	SOLANO	418,097	36.7	8.8	8.6	5.8	11.4
15	VENTURA	808,735	72.7	9.0	9.1	7.0	11.2
16	CONTRA COSTA	1,014,992	96.7	9.5	9.2	7.4	11.1
17	MERCED	237,550	19.0	8.0	9.3 *	5.1	13.5
18	SAN LUIS OBISPO	259,709	25.7	9.9	9.3	5.7	13.0
19	SAN BENITO	57,307	5.3	9.3 *	9.5 *	1.4	17.5
20	ALAMEDA	1,497,316	153.7	10.3	9.8	8.2	11.3
<b>CALIFORNIA</b>		<b>36,525,947</b>	<b>3,692.3</b>	<b>10.1</b>	<b>10.2</b>	<b>9.8</b>	<b>10.5</b>
21	SAN DIEGO	3,031,055	317.7	10.5	10.4	9.2	11.5
22	COLUSA	20,927	2.0	9.6 *	10.6 *	0.0	25.3
23	SANTA CRUZ	259,942	29.0	11.2	10.6	6.7	14.5
24	RIVERSIDE	1,845,185	184.3	10.0	10.8	9.2	12.3
25	MARIN	251,812	29.7	11.8	10.8	6.8	14.9
26	PLACER	302,199	34.3	11.4	10.9	7.2	14.5
27	SANTA BARBARA	416,662	44.3	10.6	10.9	7.7	14.1
28	GLENN	28,115	3.0	10.7 *	11.0 *	0.0	23.5
29	SAN BERNARDINO	1,922,467	201.7	10.5	11.2	9.6	12.8
30	TULARE	406,003	41.3	10.2	11.5	8.0	15.1
31	TEHAMA	59,942	6.3	10.6 *	11.6 *	2.4	20.7
32	MONTEREY	423,137	46.0	10.9	11.6	8.3	15.0
33	SONOMA	477,419	59.7	12.5	12.0	8.9	15.1
34	NEVADA	98,436	13.3	13.5 *	12.1 *	5.0	19.2
35	MADERA	139,398	16.7	12.0 *	12.2 *	6.3	18.0
36	FRESNO	874,745	97.7	11.2	12.6	10.1	15.1
37	EL DORADO	172,320	24.0	13.9	13.1	7.6	18.7
38	CALAVERAS	44,243	6.3	14.3 *	13.9 *	2.1	25.7
39	SIERRA	3,716	0.7	17.9 *	14.0 *	0.0	47.7
40	LASSEN	35,626	5.3	15.0 *	14.1 *	2.0	26.1
41	SAN JOAQUIN	645,560	83.3	12.9	14.5	11.4	17.7
42	SISKIYOU	45,644	6.7	14.6 *	15.1 *	2.9	27.4
43	PLUMAS	21,478	3.3	15.5 *	15.3 *	0.0	33.2
44	MENDOCINO	89,966	14.3	15.9 *	15.3 *	7.1	23.4
45	KERN	744,489	105.0	14.1	15.4	12.5	18.4
46	SACRAMENTO	1,357,367	211.0	15.5	15.7	13.5	17.8
47	SAN FRANCISCO	793,564	151.0	19.0	17.1	14.3	19.9
48	MODOC	10,178	1.7	16.4 *	17.6 *	0.0	45.6
49	STANISLAUS	499,864	86.7	17.3	19.1	15.1	23.1
50	TRINITY	13,961	3.0	21.5 *	19.4 *	0.0	42.7
51	AMADOR	37,507	8.0	21.3 *	19.5 *	5.5	33.4
52	DEL NORTE	29,162	6.0	20.6 *	19.7 *	3.9	35.6
53	BUTTE	213,143	42.0	19.7	20.0	13.8	26.1
54	MARIPOSA	18,066	3.7	20.3 *	20.6 *	0.0	42.7
55	LAKE	62,994	13.7	21.7 *	20.9 *	9.3	32.6
56	SHASTA	177,465	42.3	23.9	24.7	17.1	32.3
57	TUOLUMNE	57,186	13.7	23.9 *	25.0 *	11.2	38.8
58	HUMBOLDT	130,859	41.3	31.6	31.5	21.8	41.3

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

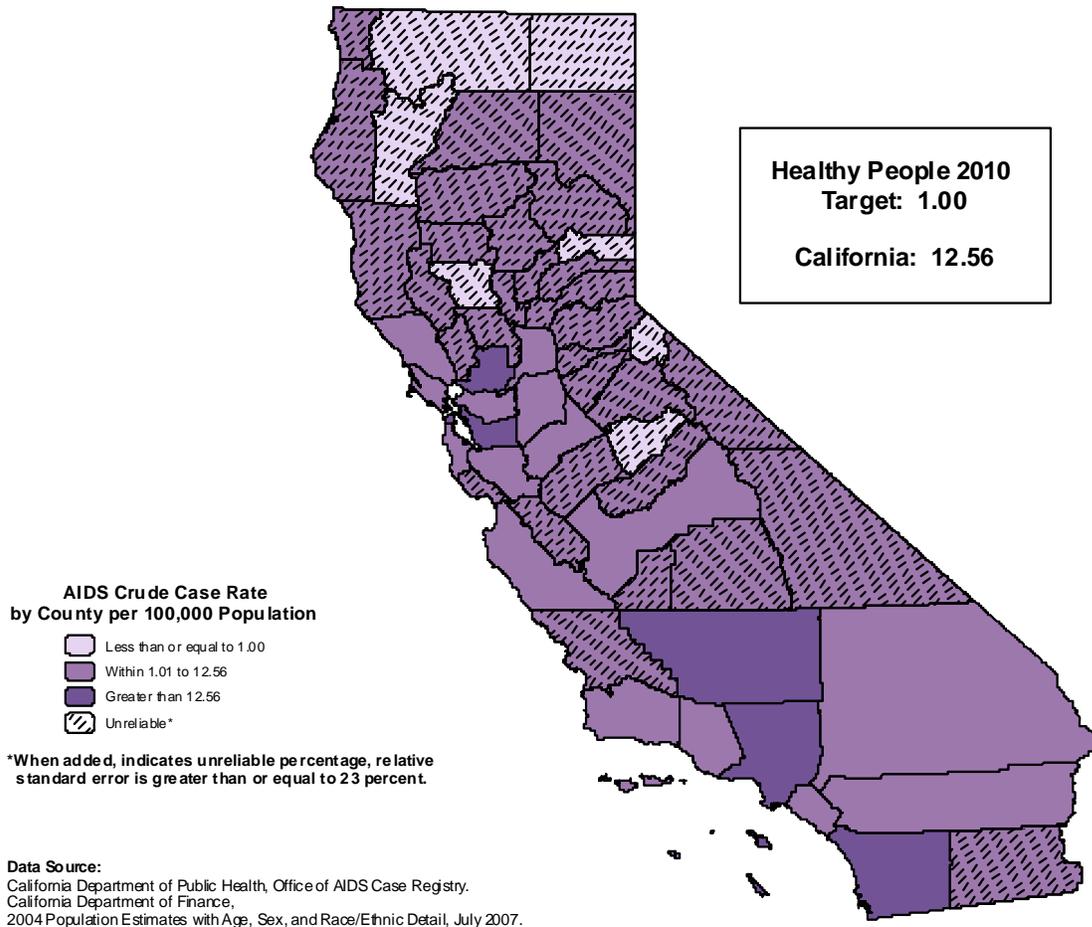
\* Death rate unreliable, relative standard error is greater than or equal to 23 percent.

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

Source: California Department of Public Health: Death Statistical Master Files, 2003-2005.

California Department of Finance: 2004 Population Estimates with Age, Sex, and Race/Ethnic Detail, July 2007.

**REPORTED INCIDENCE OF AIDS AMONG POPULATION  
AGES 13 YEARS AND OVER, 2003-2005**



The crude case rate of reported AIDS cases for Californians aged 13 years and older was 12.56 cases per 100,000 population aged 13 years and older or approximately one reported AIDS case for every 7,960 persons. This rate was based on a 2003 to 2005 three-year average reported number of cases of 3,697.67 and a population of 29,435,470 as of July 1, 2004.

Among counties with “reliable” rates, the crude case rate ranged from 63.32 in San Francisco County to 5.21 in San Mateo County, a difference in rates by a factor of 12.2 to 1. Six counties reported no new incidence of AIDS during the three-year period for this age group.

Seven counties (none with reliable case rates) met the Healthy People 2010 National Objective 13-1 of no more than 1.00 case per 100,000 population aged 13 years and older. The statewide AIDS crude case rate did not meet the national objective.

**TABLE 20**  
**REPORTED INCIDENCE OF AIDS AMONG POPULATION AGES 13 YEARS AND OVER**  
**RANKED BY THREE-YEAR AVERAGE CRUDE CASE RATE**  
**CALIFORNIA COUNTIES, 2003-2005**

RANK ORDER	COUNTY	2004	2003-2005	CRUDE CASE RATE	95% CONFIDENCE LIMITS	
		POPULATION AGED 13 AND OVER	CASES (AVERAGE)		LOWER	UPPER
1	COLUSA	16,572	0.00	-	-	-
2	MARIPOSA	15,993	0.00	-	-	-
3	TRINITY	12,151	0.00	-	-	-
4	MODOC	8,714	0.00	-	-	-
5	SIERRA	3,289	0.00	-	-	-
6	ALPINE	1,141	0.00	-	-	-
7	SISKIYOU	39,224	0.33	0.85 *	0.00	3.73
<b>HEALTHY PEOPLE 2010 NATIONAL OBJECTIVE (13-1)</b>						
				<b>1.00</b>		
8	NEVADA	85,467	1.00	1.17 *	0.00	3.46
9	YUBA	52,602	0.67	1.27 *	0.00	4.31
10	TUOLUMNE	50,498	0.67	1.32 *	0.00	4.49
11	EL DORADO	145,500	2.00	1.37 *	0.00	3.28
12	SAN BENITO	44,777	0.67	1.49 *	0.00	5.06
13	CALAVERAS	38,898	0.67	1.71 *	0.00	5.83
14	AMADOR	33,393	0.67	2.00 *	0.00	6.79
15	TEHAMA	49,851	1.00	2.01 *	0.00	5.94
16	INYO	16,123	0.33	2.07 *	0.00	9.09
17	PLACER	247,592	5.33	2.15 *	0.33	3.98
18	SUTTER	69,331	1.67	2.40 *	0.00	6.05
19	MADERA	110,859	3.00	2.71 *	0.00	5.77
20	MONO	11,715	0.33	2.85 *	0.00	12.50
21	GLENN	22,602	0.67	2.95 *	0.00	10.03
22	LAKE	54,387	1.67	3.06 *	0.00	7.72
23	MERCED	183,560	6.33	3.45 *	0.76	6.14
24	NAPA	109,284	4.00	3.66 *	0.07	7.25
25	SHASTA	148,548	6.33	4.26 *	0.94	7.58
26	LASSEN	30,906	1.33	4.31 *	0.00	11.64
27	YOLO	154,425	6.67	4.32 *	1.04	7.59
28	MENDOCINO	75,593	3.33	4.41 *	0.00	9.14
29	TULARE	313,599	16.00	5.10 *	2.60	7.60
30	SAN MATEO	601,038	31.33	5.21	3.39	7.04
31	PLUMAS	18,792	1.00	5.32 *	0.00	15.75
32	VENTURA	655,451	35.33	5.39	3.61	7.17
33	BUTTE	180,360	10.33	5.73 *	2.24	9.22
34	STANISLAUS	384,249	22.67	5.90	3.47	8.33
35	HUMBOLDT	110,911	6.67	6.01 *	1.45	10.57
36	FRESNO	686,747	41.67	6.07	4.22	7.91
37	SANTA CRUZ	218,949	13.67	6.24 *	2.93	9.55
38	SAN LUIS OBISPO	222,817	14.00	6.28 *	2.99	9.57
39	DEL NORTE	24,920	1.67	6.69 *	0.00	16.84
40	KINGS	114,139	7.67	6.72 *	1.96	11.47
41	SANTA CLARA	1,416,062	98.67	6.97	5.59	8.34
42	SANTA BARBARA	342,508	24.33	7.10	4.28	9.93
43	MONTEREY	333,264	24.00	7.20	4.32	10.08
44	ORANGE	2,462,894	185.67	7.54	6.45	8.62
45	IMPERIAL	129,188	10.33	8.00 *	3.12	12.88
46	SACRAMENTO	1,090,533	88.33	8.10	6.41	9.79
47	SAN BERNARDINO	1,510,465	130.33	8.63	7.15	10.11
48	MARIN	214,046	20.00	9.34	5.25	13.44
49	CONTRA COSTA	833,342	78.00	9.36	7.28	11.44
50	SAN JOAQUIN	492,742	48.67	9.88	7.10	12.65
51	RIVERSIDE	1,467,389	176.67	12.04	10.26	13.81
52	SONOMA	395,936	49.00	12.38	8.91	15.84
	<b>CALIFORNIA</b>	<b>29,435,470</b>	<b>3,697.67</b>	<b>12.56</b>	<b>12.16</b>	<b>12.97</b>
53	SOLANO	339,573	43.33	12.76	8.96	16.56
54	KERN	580,012	80.00	13.79	10.77	16.82
55	ALAMEDA	1,233,387	182.33	14.78	12.64	16.93
56	SAN DIEGO	2,457,014	408.00	16.61	14.99	18.22
57	LOS ANGELES	8,062,559	1,350.00	16.74	15.85	17.64
58	SAN FRANCISCO	709,589	449.33	63.32	57.47	69.18

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

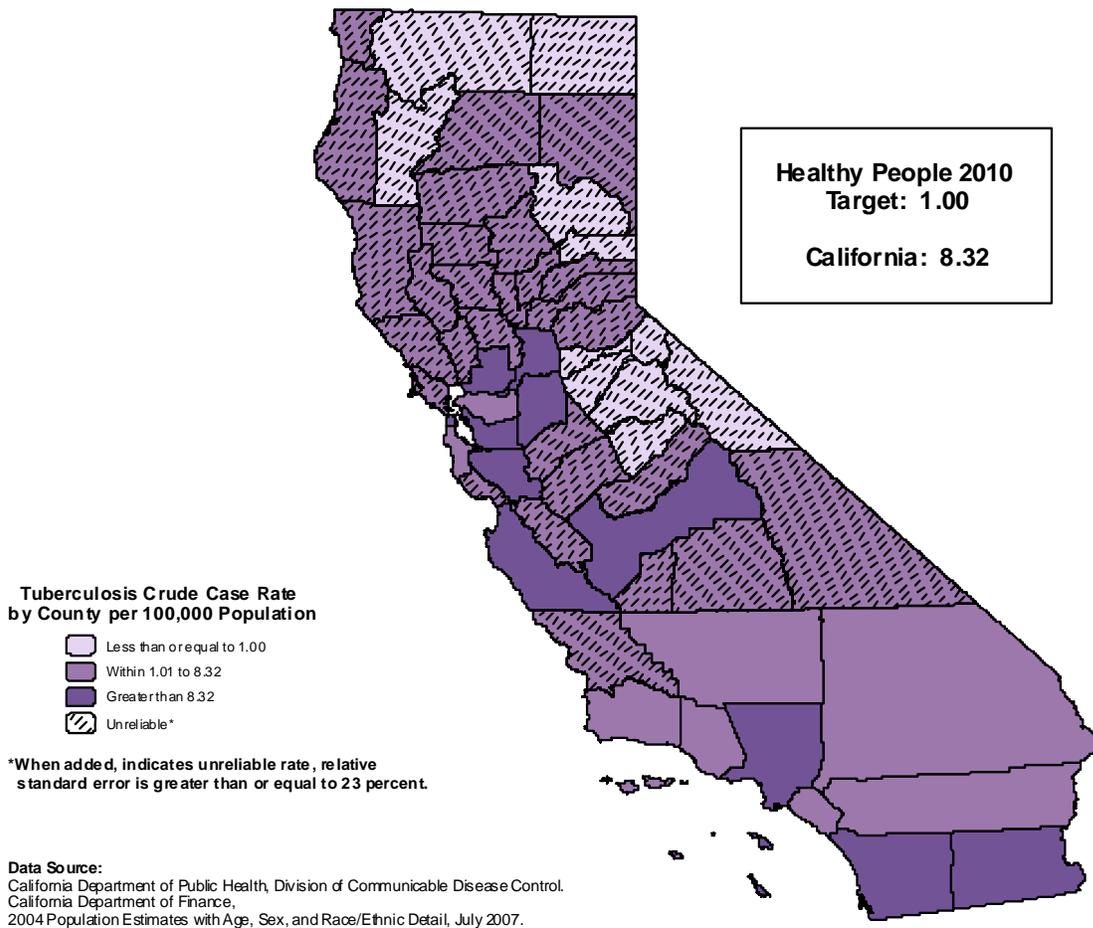
\* Case rate unreliable, relative standard error is greater than or equal to 23 percent.

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

Source: California Department of Public Health: Division of Communicable Disease Control.

California Department of Finance: 2004 Population Estimates with Age, Sex, and Race/Ethnic Detail, July 2007.

## REPORTED INCIDENCE OF TUBERCULOSIS, 2003-2005



The crude case rate of reported tuberculosis cases for California was 8.32 cases per 100,000 population or approximately one reported tuberculosis case for every 12,016 persons. This rate was based on a 2003 to 2005 three-year average reported number of cases of 3,039.67 and a population of 36,525,947 as of July 1, 2004.

Among counties with “reliable” rates, the crude case rate ranged from 18.35 in Imperial County to 3.42 in San Bernardino County, a difference in rates by a factor of 5.4 to 1. Nine counties reported no new incidence of tuberculosis during the three-year period.

Eleven counties (none with reliable case rates) met the Healthy People 2010 National Objective 14-11 of no more than 1.00 tuberculosis case per 100,000 population. The statewide tuberculosis crude case rate did not meet the national objective.

**TABLE 21  
REPORTED INCIDENCE OF TUBERCULOSIS  
RANKED BY THREE-YEAR AVERAGE CRUDE CASE RATE  
CALIFORNIA COUNTIES, 2003-2005**

RANK ORDER	COUNTY	2004 POPULATION	2003-2005 CASES (AVERAGE)	CRUDE CASE RATE	95% CONFIDENCE LIMITS	
					LOWER	UPPER
1	CALAVERAS	44,243	0.00	-	-	-
2	AMADOR	37,507	0.00	-	-	-
3	PLUMAS	21,478	0.00	-	-	-
4	MARIPOSA	18,066	0.00	-	-	-
5	TRINITY	13,961	0.00	-	-	-
6	MONO	13,727	0.00	-	-	-
7	MODOC	10,178	0.00	-	-	-
8	SIERRA	3,716	0.00	-	-	-
9	ALPINE	1,304	0.00	-	-	-
10	TUOLUMNE	57,186	0.33	0.58 *	0.00	2.56
11	SISKIYOU	45,644	0.33	0.73 *	0.00	3.21
<b>HEALTHY PEOPLE 2010 NATIONAL OBJECTIVE (14-11)</b>				<b>1.00</b>		
12	DEL NORTE	29,162	0.33	1.14 *	0.00	5.02
13	EL DORADO	172,320	2.33	1.35 *	0.00	3.09
14	NEVADA	98,436	1.33	1.35 *	0.00	3.65
15	COLUSA	20,927	0.33	1.59 *	0.00	7.00
16	INYO	18,923	0.33	1.76 *	0.00	7.74
17	LASSEN	35,626	0.67	1.87 *	0.00	6.36
18	BUTTE	213,143	4.33	2.03 *	0.12	3.95
19	PLACER	302,199	6.33	2.10 *	0.46	3.73
20	LAKE	62,994	1.33	2.12 *	0.00	5.71
21	SUTTER	87,881	2.00	2.28 *	0.00	5.43
22	SAN LUIS OBISPO	259,709	6.00	2.31 *	0.46	4.16
23	SAN BENITO	57,307	1.33	2.33 *	0.00	6.28
24	HUMBOLDT	130,859	3.33	2.55 *	0.00	5.28
25	STANISLAUS	499,864	15.67	3.13 *	1.58	4.69
26	SONOMA	477,419	15.33	3.21 *	1.60	4.82
27	MENDOCINO	89,966	3.00	3.33 *	0.00	7.11
28	SHASTA	177,465	6.00	3.38 *	0.68	6.09
29	SAN BERNARDINO	1,922,467	65.67	3.42	2.59	4.24
30	KINGS	143,970	5.00	3.47 *	0.43	6.52
31	GLENN	28,115	1.00	3.56 *	0.00	10.53
32	SANTA CRUZ	259,942	9.33	3.59 *	1.29	5.89
33	RIVERSIDE	1,845,185	70.00	3.79	2.90	4.68
34	NAPA	132,753	5.33	4.02 *	0.61	7.43
35	TULARE	406,003	17.33	4.27 *	2.26	6.28
36	TEHAMA	59,942	2.67	4.45 *	0.00	9.79
37	MERCED	237,550	10.67	4.49 *	1.80	7.19
38	YOLO	186,751	8.67	4.64 *	1.55	7.73
39	MARIN	251,812	13.33	5.29 *	2.45	8.14
40	KERN	744,489	41.67	5.60	3.90	7.30
41	YUBA	66,682	4.00	6.00 *	0.12	11.88
42	SANTA BARBARA	416,662	27.00	6.48	4.04	8.92
43	MADERA	139,398	9.33	6.70 *	2.40	10.99
44	CONTRA COSTA	1,014,992	68.00	6.70	5.11	8.29
45	ORANGE	3,038,670	237.67	7.82	6.83	8.82
46	SAN MATEO	720,229	56.67	7.87	5.82	9.92
47	VENTURA	808,735	67.00	8.28	6.30	10.27
<b>CALIFORNIA</b>		<b>36,525,947</b>	<b>3,039.67</b>	<b>8.32</b>	<b>8.03</b>	<b>8.62</b>
48	SOLANO	418,097	37.33	8.93	6.06	11.79
49	MONTEREY	423,137	40.00	9.45	6.52	12.38
50	LOS ANGELES	10,152,410	999.00	9.84	9.23	10.45
51	SAN JOAQUIN	645,560	65.67	10.17	7.71	12.63
52	SAN DIEGO	3,031,055	313.67	10.35	9.20	11.49
53	FRESNO	874,745	95.33	10.90	8.71	13.09
54	ALAMEDA	1,497,316	163.67	10.93	9.26	12.61
55	SACRAMENTO	1,357,367	152.33	11.22	9.44	13.00
56	SANTA CLARA	1,747,295	209.33	11.98	10.36	13.60
57	SAN FRANCISCO	793,564	143.00	18.02	15.07	20.97
58	IMPERIAL	159,844	29.33	18.35	11.71	24.99

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

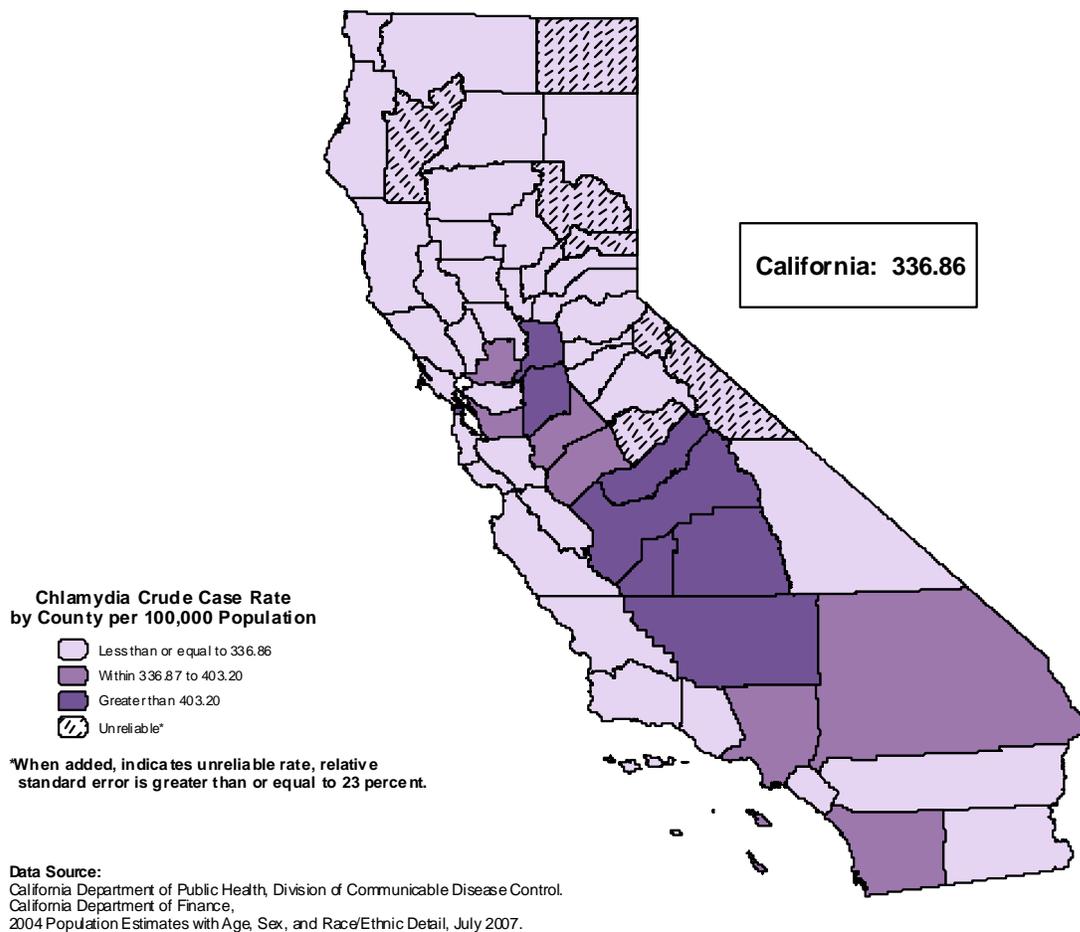
\* Case rate unreliable, relative standard error is greater than or equal to 23 percent.

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

Source: California Department of Public Health: Division of Communicable Disease Control.

California Department of Finance: 2004 Population Estimates with Age, Sex, and Race/Ethnic Detail, July 2007.

## REPORTED INCIDENCE OF CHLAMYDIA, 2003-2005



The crude case rate of reported chlamydia cases for California was 336.86 cases per 100,000 population or approximately one reported chlamydia case for every 297 persons. This rate was based on a 2003 to 2005 three-year average reported number of cases of 123,042.00 and a population of 36,525,947 as of July 1, 2004.

Among counties with “reliable” rates, the crude case rate ranged from 547.13 in Fresno County to 79.86 in Calaveras County, a difference in rates by a factor of 6.9 to 1.

Prevalence data are not available in all California counties to evaluate the Healthy People 2010 National Objective 25-1 of no more than 3 percent testing positive in the population aged 15 to 24 years.

**TABLE 22  
REPORTED INCIDENCE OF CHLAMYDIA  
RANKED BY THREE-YEAR AVERAGE CRUDE CASE RATE  
CALIFORNIA COUNTIES, 2003-2005**

RANK ORDER	COUNTY	2004 POPULATION	2003-2005 CASES (AVERAGE)	CRUDE CASE RATE	95% CONFIDENCE LIMITS	
					LOWER	UPPER
<b>HEALTHY PEOPLE 2010 NATIONAL OBJECTIVE (25-1)</b>				<b>NOTE</b>		
1	SIERRA	3,716	0.67	17.94 *	0.00	61.01
2	MONO	13,727	9.33	67.99 *	24.37	111.61
3	PLUMAS	21,478	15.67	72.94 *	36.82	109.06
4	ALPINE	1,304	1.00	76.69 *	0.00	226.99
5	MODOC	10,178	8.00	78.60 *	24.13	133.07
6	CALAVERAS	44,243	35.33	79.86	53.53	106.20
7	AMADOR	37,507	33.67	89.76	59.44	120.08
8	MARIPOSA	18,066	16.67	92.25 *	47.96	136.55
9	DEL NORTE	29,162	28.00	96.02	60.45	131.58
10	TRINITY	13,961	14.67	105.05 *	51.29	158.82
11	NEVADA	98,436	114.33	116.15	94.86	137.44
12	COLUSA	20,927	25.67	122.65	75.20	170.10
13	LASSEN	35,626	44.00	123.51	87.01	160.00
14	EL DORADO	172,320	223.33	129.60	112.61	146.60
15	NAPA	132,753	174.00	131.07	111.60	150.55
16	PLACER	302,199	405.67	134.24	121.18	147.30
17	INYO	18,923	26.33	139.16	86.01	192.31
18	SONOMA	477,419	676.67	141.73	131.06	152.41
19	TUOLUMNE	57,186	82.00	143.39	112.36	174.43
20	MARIN	251,812	409.33	162.56	146.81	178.30
21	LAKE	62,994	112.67	178.85	145.83	211.88
22	VENTURA	808,735	1,545.67	191.12	181.59	200.65
23	SAN LUIS OBISPO	259,709	505.67	194.71	177.73	211.68
24	SAN MATEO	720,229	1,460.33	202.76	192.36	213.16
25	GLENN	28,115	57.67	205.11	152.17	258.05
26	SUTTER	87,881	180.67	205.58	175.60	235.56
27	SISKIYOU	45,644	96.33	211.05	168.91	253.20
28	RIVERSIDE	1,845,185	3,970.00	215.15	208.46	221.85
29	SAN BENITO	57,307	125.33	218.71	180.42	256.99
30	MENDOCINO	89,966	197.67	219.71	189.08	250.34
31	SANTA CRUZ	259,942	581.00	223.51	205.34	241.69
32	ORANGE	3,038,670	6,811.33	224.16	218.83	229.48
33	TEHAMA	59,942	135.67	226.33	188.24	264.42
34	YOLO	186,751	434.67	232.75	210.87	254.63
35	IMPERIAL	159,844	393.33	246.07	221.75	270.39
36	SANTA BARBARA	416,662	1,062.67	255.04	239.71	270.38
37	HUMBOLDT	130,859	335.00	256.00	228.59	283.41
38	CONTRA COSTA	1,014,992	2,710.67	267.06	257.01	277.12
39	MONTEREY	423,137	1,220.00	288.32	272.14	304.50
40	SANTA CLARA	1,747,295	5,163.67	295.52	287.46	303.58
41	BUTTE	213,143	642.67	301.52	278.21	324.83
42	YUBA	66,682	211.33	316.93	274.20	359.66
43	SHASTA	177,465	587.67	331.15	304.37	357.92
	<b>CALIFORNIA</b>	<b>36,525,947</b>	<b>123,042.00</b>	<b>336.86</b>	<b>334.98</b>	<b>338.74</b>
44	SOLANO	418,097	1,441.67	344.82	327.02	362.62
45	ALAMEDA	1,497,316	5,272.00	352.10	342.59	361.60
46	SAN DIEGO	3,031,055	10,774.33	355.46	348.75	362.18
47	STANISLAUS	499,864	1,785.33	357.16	340.60	373.73
48	SAN BERNARDINO	1,922,467	7,290.33	379.22	370.51	387.92
49	MERCED	237,550	938.00	394.86	369.59	420.13
50	LOS ANGELES	10,152,410	40,874.67	402.61	398.71	406.51
51	SAN JOAQUIN	645,560	2,604.33	403.42	387.93	418.92
52	KINGS	143,970	611.00	424.39	390.74	458.05
53	TULARE	406,003	1,792.67	441.54	421.10	461.98
54	MADERA	139,398	624.67	448.12	412.98	483.26
55	SACRAMENTO	1,357,367	6,093.67	448.93	437.66	460.20
56	SAN FRANCISCO	793,564	3,582.33	451.42	436.64	466.21
57	KERN	744,489	3,685.00	494.97	478.99	510.95
58	FRESNO	874,745	4,786.00	547.13	531.63	562.63

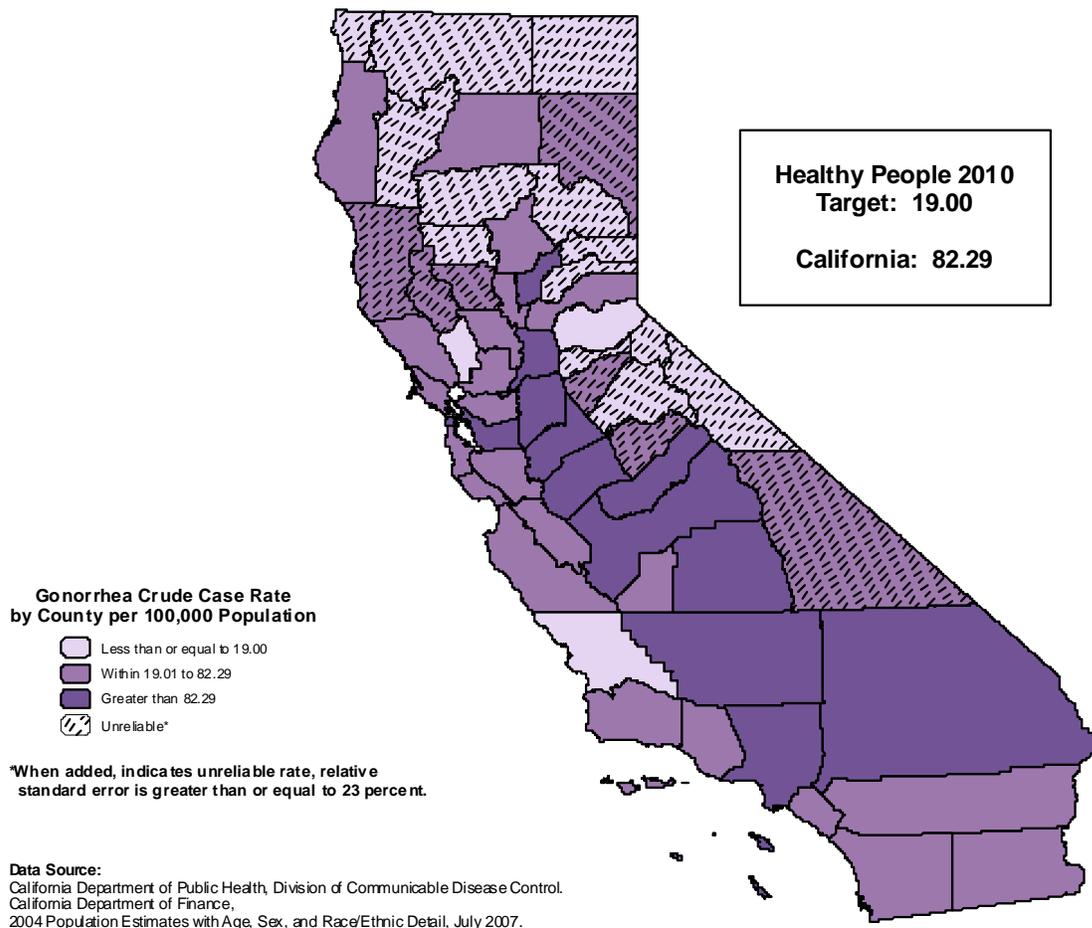
\* Case rate unreliable, relative standard error is greater than or equal to 23 percent.

Note: Counties were rank ordered first by increasing case rate (calculated to 15 decimal places), second by decreasing size of the population. Age-adjusted death rates could not be calculated because prevalence data are not available by age in all California counties.

Source: California Department of Public Health: Division of Communicable Disease Control.

California Department of Finance: 2004 Population Estimates with Age, Sex, and Race/Ethnic Detail, July 2007.

## REPORTED INCIDENCE OF GONORRHEA, 2003-2005



The crude case rate of reported gonorrhea cases for California was 82.29 cases per 100,000 population or approximately one reported gonorrhea case for every 1,215 persons. This rate was based on a 2003 to 2005 three-year average reported number of cases of 30,058.00 and a population of 36,525,947 as of July 1, 2004.

Among counties with “reliable” rates, the crude case rate ranged from 269.42 in San Francisco County to 12.19 in El Dorado County, a difference in rates by a factor of 22.1 to 1. One county reported no new incidence of gonorrhea during the three-year period.

Sixteen counties (three with reliable case rates) met the Healthy People 2010 National Objective 25-2a of no more than 19.00 gonorrhea cases per 100,000 population. The statewide gonorrhea crude case rate did not meet the national objective.

**TABLE 23  
REPORTED INCIDENCE OF GONORRHEA  
RANKED BY THREE-YEAR AVERAGE CRUDE CASE RATE  
CALIFORNIA COUNTIES, 2003-2005**

RANK ORDER	COUNTY	2004 POPULATION	2003-2005 CASES (AVERAGE)	CRUDE CASE RATE	95% CONFIDENCE LIMITS	
					LOWER	UPPER
1	ALPINE	1,304	0.00	-	-	-
2	DEL NORTE	29,162	2.00	6.86 *	0.00	16.36
3	TRINITY	13,961	1.00	7.16 *	0.00	21.20
4	SIERRA	3,716	0.33	8.97 *	0.00	39.42
5	NEVADA	98,436	9.00	9.14 *	3.17	15.12
6	MONO	13,727	1.33	9.71 *	0.00	26.20
7	GLENN	28,115	3.33	11.86 *	0.00	24.58
8	EL DORADO	172,320	21.00	12.19	6.97	17.40
9	PLUMAS	21,478	2.67	12.42 *	0.00	27.32
10	MODOC	10,178	1.33	13.10 *	0.00	35.34
11	SISKIYOU	45,644	6.33	13.88 *	3.07	24.68
12	TUOLUMNE	57,186	9.00	15.74 *	5.46	26.02
13	NAPA	132,753	21.67	16.32	9.45	23.19
14	AMADOR	37,507	6.67	17.77 *	4.28	31.27
15	SAN LUIS OBISPO	259,709	47.00	18.10	12.92	23.27
16	TEHAMA	59,942	11.33	18.91 *	7.90	29.92
<b>HEALTHY PEOPLE 2010 NATIONAL OBJECTIVE (25-2a)</b>				<b>19.00</b>		
17	LAKE	62,994	12.00	19.05 *	8.27	29.83
18	INYO	18,923	3.67	19.38 *	0.00	39.21
19	MENDOCINO	89,966	17.67	19.64 *	10.48	28.79
20	MARIPOSA	18,066	3.67	20.30 *	0.00	41.07
21	PLACER	302,199	62.00	20.52	15.41	25.62
22	VENTURA	808,735	166.33	20.57	17.44	23.69
23	SANTA BARBARA	416,662	89.00	21.36	16.92	25.80
24	COLUSA	20,927	4.67	22.30 *	2.07	42.53
25	MARIN	251,812	57.33	22.77	16.87	28.66
26	CALAVERAS	44,243	10.33	23.36 *	9.12	37.60
27	LASSEN	35,626	9.00	25.26 *	8.76	41.77
28	YOLO	186,751	49.33	26.42	19.05	33.79
29	SONOMA	477,419	136.00	28.49	23.70	33.27
30	SHASTA	177,465	52.00	29.30	21.34	37.27
31	HUMBOLDT	130,859	39.33	30.06	20.66	39.45
32	IMPERIAL	159,844	50.67	31.70	22.97	40.43
33	SANTA CRUZ	259,942	84.33	32.44	25.52	39.37
34	SAN MATEO	720,229	237.67	33.00	28.80	37.19
35	ORANGE	3,038,670	1,023.67	33.69	31.62	35.75
36	RIVERSIDE	1,845,185	770.67	41.77	38.82	44.72
37	MONTEREY	423,137	196.67	46.48	39.98	52.97
38	SANTA CLARA	1,747,295	922.33	52.79	49.38	56.19
39	BUTTE	213,143	134.67	63.18	52.51	73.85
40	SAN BENITO	57,307	37.33	65.15	44.25	86.04
41	CONTRA COSTA	1,014,992	714.33	70.38	65.22	75.54
42	SUTTER	87,881	63.33	72.07	54.32	89.82
43	KINGS	143,970	106.00	73.63	59.61	87.64
44	SOLANO	418,097	319.00	76.30	67.93	84.67
45	SAN DIEGO	3,031,055	2,329.00	76.84	73.72	79.96
<b>CALIFORNIA</b>		<b>36,525,947</b>	<b>30,058.00</b>	<b>82.29</b>	<b>81.36</b>	<b>83.22</b>
46	TULARE	406,003	337.00	83.00	74.14	91.87
47	MERCED	237,550	205.33	86.44	74.61	98.26
48	MADERA	139,398	129.33	92.78	76.79	108.77
49	YUBA	66,682	64.33	96.48	72.90	120.05
50	STANISLAUS	499,864	491.67	98.36	89.67	107.05
51	LOS ANGELES	10,152,410	10,143.00	99.91	97.96	101.85
52	SAN BERNARDINO	1,922,467	1,947.67	101.31	96.81	105.81
53	SAN JOAQUIN	645,560	735.67	113.96	105.72	122.19
54	ALAMEDA	1,497,316	1,876.33	125.31	119.64	130.98
55	KERN	744,489	983.00	132.04	123.78	140.29
56	FRESNO	874,745	1,192.33	136.31	128.57	144.04
57	SACRAMENTO	1,357,367	1,968.33	145.01	138.60	151.42
58	SAN FRANCISCO	793,564	2,138.00	269.42	258.00	280.84

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

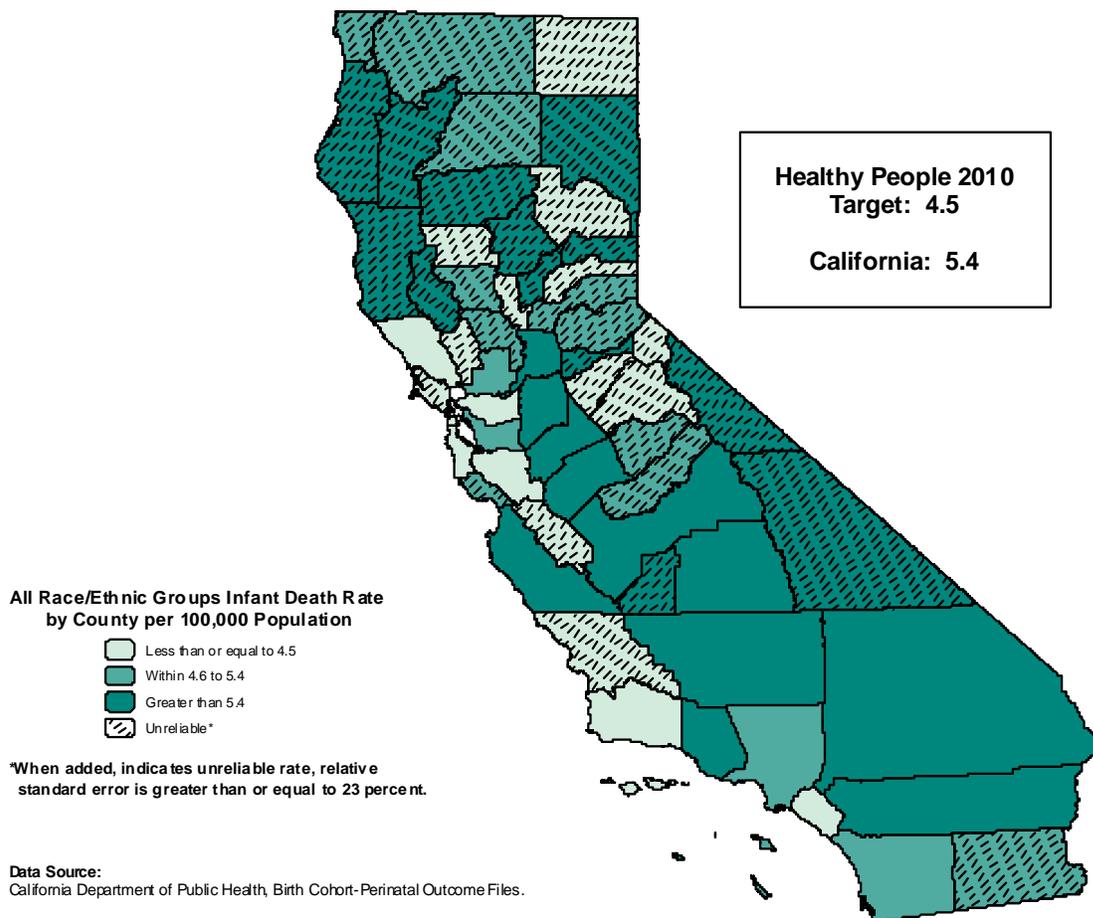
\* Case rate unreliable, relative standard error is greater than or equal to 23 percent.

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

Source: California Department of Public Health: Division of Communicable Disease Control.

California Department of Finance: 2004 Population Estimates with Age, Sex, and Race/Ethnic Detail, July 2007.

## INFANT MORTALITY, ALL RACE/ETHNIC GROUPS, 2002-2004



The birth cohort infant death rate for California was 5.4 deaths per 1,000 live births, a risk of dying equivalent to approximately one infant death for every 186 births. This rate was based on the 2,894.0 infant deaths among 538,301.3 live births, the three-year average for the years 2002 to 2004.

Among counties with “reliable” rates, the birth cohort infant death rate ranged from 7.4 in Fresno County to 3.8 in San Mateo County, a difference in rates by a factor of 1.9 to 1.

Nineteen counties (seven with reliable rates) met the Healthy People 2010 National Objective 16-1c of no more than 4.5 infant deaths per 1,000 birth cohort live births. The statewide infant death rate did not meet the national objective.

**TABLE 24A**  
**INFANT MORTALITY, ALL RACE/ETHNIC GROUPS**  
**RANKED BY THREE-YEAR AVERAGE BIRTH COHORT INFANT DEATH RATE**  
**CALIFORNIA COUNTIES, 2002-2004**

RANK ORDER	COUNTY	THREE-YEAR AVERAGE		BIRTH COHORT INFANT DEATH RATE	95% CONFIDENCE LIMITS	
		LIVE BIRTHS	INFANT DEATHS		LOWER	UPPER
1	MODOC	80.3	0.0	-	-	-
2	ALPINE	11.0	0.0	-	-	-
3	SAN BENITO	892.0	2.0	2.2 *	0.0	5.3
4	MARIN	2,798.7	7.7	2.7 *	0.8	4.7
5	TUOLUMNE	462.3	1.3	2.9 *	0.0	7.8
6	CALAVERAS	327.7	1.0	3.1 *	0.0	9.0
7	GLENN	412.3	1.3	3.2 *	0.0	8.7
8	NEVADA	820.7	2.7	3.2 *	0.0	7.1
9	NAPA	1,617.0	6.0	3.7 *	0.7	6.7
10	PLUMAS	178.7	0.7	3.7 *	0.0	12.7
11	SAN MATEO	10,120.3	38.7	3.8	2.6	5.0
12	CONTRA COSTA	13,269.7	52.3	3.9	2.9	5.0
13	SANTA CLARA	26,862.7	109.3	4.1	3.3	4.8
14	SONOMA	5,829.0	24.0	4.1	2.5	5.8
15	SANTA BARBARA	5,902.0	25.3	4.3	2.6	6.0
16	SAN LUIS OBISPO	2,560.7	11.0	4.3 *	1.8	6.8
17	SUTTER	1,319.0	5.7	4.3 *	0.8	7.8
18	SAN FRANCISCO	8,533.0	37.3	4.4	3.0	5.8
19	ORANGE	45,073.0	201.3	4.5	3.8	5.1
<b>HEALTHY PEOPLE 2010 NATIONAL OBJECTIVE (16-1c)</b>				<b>4.5</b>		
20	YOLO	2,408.3	11.0	4.6 *	1.9	7.3
21	ALAMEDA	21,434.0	98.0	4.6	3.7	5.5
22	DEL NORTE	290.7	1.3	4.6 *	0.0	12.4
23	EL DORADO	1,805.0	8.3	4.6 *	1.5	7.8
24	PLACER	3,640.0	17.0	4.7 *	2.5	6.9
25	MADERA	2,262.0	10.7	4.7 *	1.9	7.5
26	MARIPOSA	138.3	0.7	4.8 *	0.0	16.4
27	IMPERIAL	2,810.7	14.0	5.0 *	2.4	7.6
28	SANTA CRUZ	3,395.7	17.0	5.0 *	2.6	7.4
29	SAN DIEGO	45,031.7	226.3	5.0	4.4	5.7
30	COLUSA	327.3	1.7	5.1 *	0.0	12.8
31	SISKIYOU	457.0	2.3	5.1 *	0.0	11.7
32	SOLANO	5,785.3	30.0	5.2	3.3	7.0
33	LOS ANGELES	151,648.7	819.3	5.4	5.0	5.8
34	SHASTA	2,023.7	11.0	5.4 *	2.2	8.6
<b>CALIFORNIA</b>		<b>538,301.3</b>	<b>2,894.0</b>	<b>5.4</b>	<b>5.2</b>	<b>5.6</b>
35	LASSEN	301.0	1.7	5.5 *	0.0	13.9
36	TULARE	7,659.3	43.0	5.6	3.9	7.3
37	MONTEREY	7,312.7	41.3	5.7	3.9	7.4
38	SACRAMENTO	20,169.0	121.0	6.0	4.9	7.1
39	RIVERSIDE	28,091.7	171.7	6.1	5.2	7.0
40	VENTURA	11,855.7	73.7	6.2	4.8	7.6
41	TRINITY	107.0	0.7	6.2 *	0.0	21.2
42	MERCED	4,201.0	26.3	6.3	3.9	8.7
43	YUBA	1,169.0	7.3	6.3 *	1.7	10.8
44	KERN	12,851.0	81.0	6.3	4.9	7.7
45	LAKE	668.7	4.3	6.5 *	0.4	12.6
46	MONO	149.0	1.0	6.7 *	0.0	19.9
47	STANISLAUS	8,004.0	54.7	6.8	5.0	8.6
48	BUTTE	2,335.0	16.0	6.9 *	3.5	10.2
49	TEHAMA	723.3	5.0	6.9 *	0.9	13.0
50	SAN JOAQUIN	10,542.3	74.0	7.0	5.4	8.6
51	SAN BERNARDINO	30,816.0	220.3	7.1	6.2	8.1
52	MENDOCINO	1,102.0	8.0	7.3 *	2.2	12.3
53	AMADOR	273.7	2.0	7.3 *	0.0	17.4
54	HUMBOLDT	1,458.0	10.7	7.3 *	2.9	11.7
55	FRESNO	15,353.7	113.7	7.4	6.0	8.8
56	KINGS	2,408.3	18.0	7.5 *	4.0	10.9
57	INYO	195.3	2.0	10.2 *	0.0	24.4
58	SIERRA	26.3	0.3	12.7 *	0.0	55.6

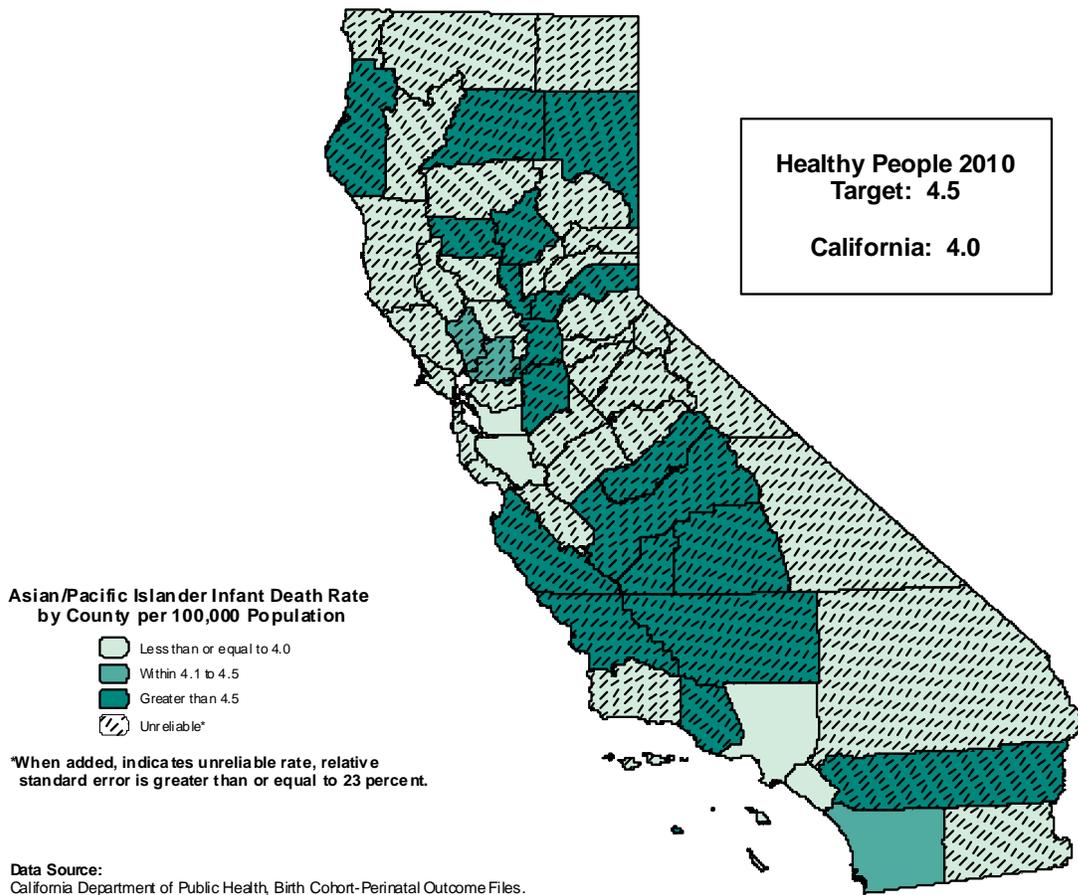
- Rates, percentages, and confidence limits are not calculated for zero events.

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

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

Source: California Department of Public Health: Birth Cohort-Perinatal Outcome Files, 2002-2004.

## ASIAN/PACIFIC ISLANDER INFANT MORTALITY, 2002-2004



The Asian/Pacific Islander birth cohort infant death rate for California was 4.0 deaths per 1,000 live births, a risk of dying equivalent to approximately one infant death for every 249 births. This rate was based on the 254.7 infant deaths among 63,458.0 live births, the three-year average for the years 2002 to 2004.

Among counties with “reliable” rates, the birth cohort infant death rate for Asian/Pacific Islanders ranged from 4.4 in San Diego County to 3.1 in Santa Clara County, a difference in rates by a factor of 1.4 to 1.

Forty counties (five with reliable rates) and California as a whole met the Healthy People 2010 National Objective 16-1c of no more than 4.5 infant deaths per 1,000 birth cohort live births.

**TABLE 24B**  
**ASIAN/PACIFIC ISLANDER INFANT MORTALITY**  
**RANKED BY THREE-YEAR AVERAGE BIRTH COHORT INFANT DEATH RATE**  
**CALIFORNIA COUNTIES, 2002-2004**

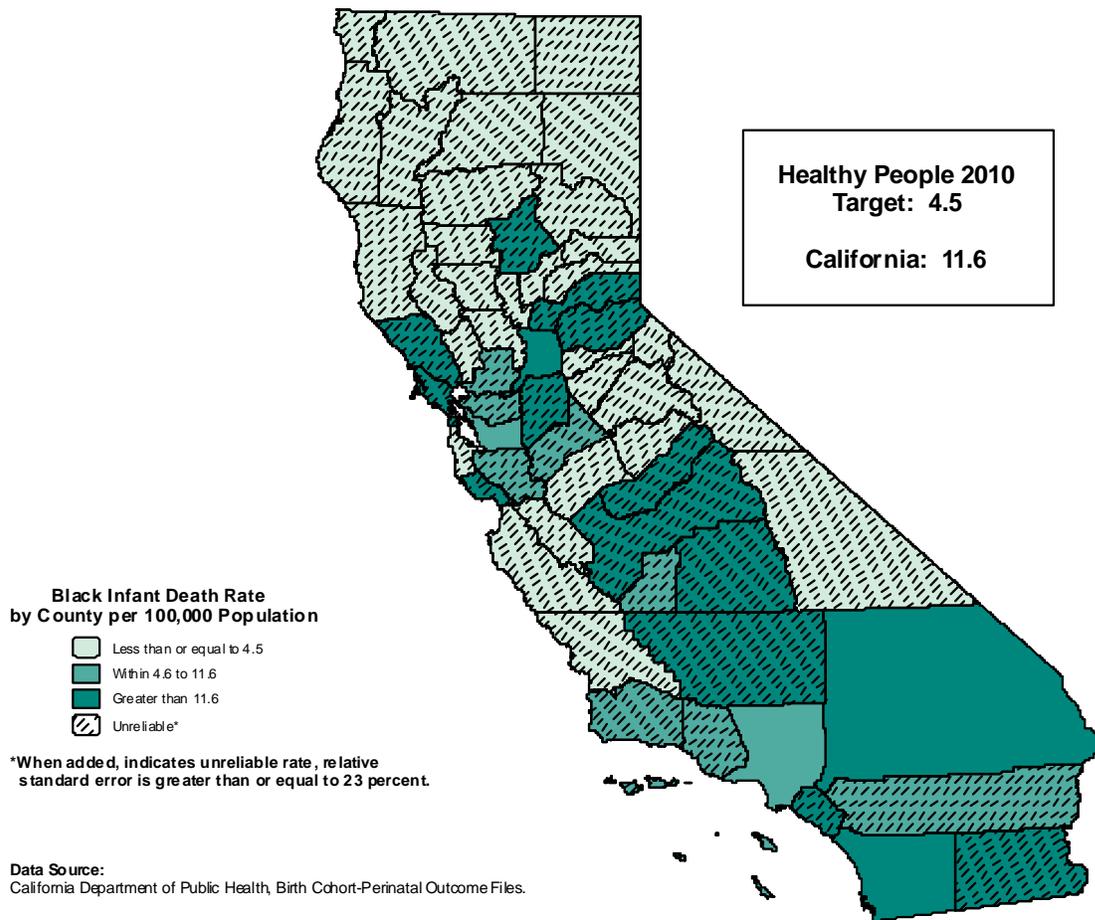
RANK ORDER	COUNTY	THREE-YEAR AVERAGE		BIRTH COHORT INFANT DEATH RATE	95% CONFIDENCE LIMITS	
		LIVE BIRTHS	INFANT DEATHS		LOWER	UPPER
1	MARIN	202.7	0.0	-	-	-
2	YUBA	104.3	0.0	-	-	-
3	EL DORADO	64.7	0.0	-	-	-
4	IMPERIAL	32.0	0.0	-	-	-
5	SAN BENITO	22.7	0.0	-	-	-
6	MENDOCINO	16.7	0.0	-	-	-
7	LAKE	11.7	0.0	-	-	-
8	SISKIYOU	11.0	0.0	-	-	-
9	DEL NORTE	10.3	0.0	-	-	-
10	NEVADA	9.7	0.0	-	-	-
11	TUOLUMNE	5.0	0.0	-	-	-
12	CALAVERAS	4.7	0.0	-	-	-
13	AMADOR	4.3	0.0	-	-	-
14	TEHAMA	4.3	0.0	-	-	-
15	COLUSA	3.7	0.0	-	-	-
16	INYO	3.0	0.0	-	-	-
17	MARIPOSA	2.0	0.0	-	-	-
18	MONO	1.7	0.0	-	-	-
19	PLUMAS	1.7	0.0	-	-	-
20	TRINITY	1.7	0.0	-	-	-
21	MODOC	0.7	0.0	-	-	-
22	SIERRA	0.3	0.0	-	-	-
23	ALPINE	0.0	0.0	-	-	-
24	SANTA BARBARA	233.0	0.3	1.4 *	0.0	6.3
25	STANISLAUS	386.7	0.7	1.7 *	0.0	5.9
26	SAN FRANCISCO	2,766.7	7.7	2.8 *	0.8	4.7
27	YOLO	238.0	0.7	2.8 *	0.0	9.5
28	SAN MATEO	2,630.0	8.0	3.0 *	0.9	5.1
29	SANTA CLARA	8,909.0	28.0	3.1	2.0	4.3
30	SONOMA	301.0	1.0	3.3 *	0.0	9.8
31	SANTA CRUZ	98.7	0.3	3.4 *	0.0	14.8
32	ALAMEDA	5,766.7	20.7	3.6	2.0	5.1
33	ORANGE	6,871.0	24.7	3.6	2.2	5.0
34	CONTRA COSTA	1,732.0	6.7	3.8 *	0.9	6.8
35	LOS ANGELES	15,892.7	62.0	3.9	2.9	4.9
36	MERCED	254.3	1.0	3.9 *	0.0	11.6
37	SAN BERNARDINO	1,589.7	6.3	4.0 *	0.9	7.1
	<b>CALIFORNIA</b>	<b>63,458.0</b>	<b>254.7</b>	<b>4.0</b>	<b>3.5</b>	<b>4.5</b>
38	NAPA	79.3	0.3	4.2 *	0.0	18.5
39	SOLANO	865.7	3.7	4.2 *	0.0	8.6
40	SAN DIEGO	4,619.7	20.3	4.4	2.5	6.3
	<b>HEALTHY PEOPLE 2010 NATIONAL OBJECTIVE (16-1c)</b>			<b>4.5</b>		
41	MONTEREY	352.7	1.7	4.7 *	0.0	11.9
42	BUTTE	129.7	0.7	5.1 *	0.0	17.5
43	SAN JOAQUIN	1,471.0	7.7	5.2 *	1.5	8.9
44	SACRAMENTO	3,069.7	17.0	5.5 *	2.9	8.2
45	RIVERSIDE	1,236.7	7.7	6.2 *	1.8	10.6
46	FRESNO	1,342.7	8.7	6.5 *	2.2	10.8
47	KINGS	88.3	0.7	7.5 *	0.0	25.7
48	PLACER	219.0	1.7	7.6 *	0.0	19.2
49	SAN LUIS OBISPO	85.0	0.7	7.8 *	0.0	26.7
50	VENTURA	713.3	5.7	7.9 *	1.4	14.5
51	SHASTA	79.7	0.7	8.4 *	0.0	28.5
52	HUMBOLDT	39.7	0.3	8.4 *	0.0	36.9
53	SUTTER	194.7	1.7	8.6 *	0.0	21.6
54	KERN	432.3	4.0	9.3 *	0.2	18.3
55	TULARE	203.7	2.3	11.5 *	0.0	26.2
56	MADERA	28.7	0.7	23.3 *	0.0	79.1
57	GLENN	11.3	0.3	29.4 *	0.0	129.3
58	LASSEN	7.3	0.3	45.5 *	0.0	199.8

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

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

Note: Counties were rank ordered first by increasing birth cohort death rate (calculated to 15 decimal places), second by decreasing total number of live births.  
Source: California Department of Public Health: Birth Cohort-Perinatal Outcome Files, 2002-2004.

## BLACK INFANT MORTALITY, 2002-2004



The Black birth cohort infant death rate for California was 11.6 deaths per 1,000 live births, a risk of dying equivalent to approximately one infant death for every 86 births. This rate was based on the 339.0 deaths among the 29,231.0 live births, the three-year average for the years 2002 to 2004.

Among counties with “reliable” rates, the birth cohort infant death rate for Blacks ranged from 16.0 in San Bernardino County to 8.6 in Alameda County, a difference in rates by a factor of 1.9 to 1.

Thirty-one counties (none with reliable rates) met the Healthy People 2010 National Objective 16-1c of no more than 4.5 infant deaths per 1,000 birth cohort live births. The statewide Black infant death rate did not meet the national objective.

**TABLE 24C  
BLACK INFANT MORTALITY  
RANKED BY THREE-YEAR AVERAGE BIRTH COHORT INFANT DEATH RATE  
CALIFORNIA COUNTIES, 2002-2004**

RANK ORDER	COUNTY	THREE-YEAR AVERAGE		BIRTH COHORT INFANT DEATH RATE	95% CONFIDENCE LIMITS	
		LIVE BIRTHS	INFANT DEATHS		LOWER	UPPER
1	YOLO	48.3	0.0	-	-	-
2	YUBA	33.7	0.0	-	-	-
3	SHASTA	21.0	0.0	-	-	-
4	SAN LUIS OBISPO	15.3	0.0	-	-	-
5	SUTTER	14.0	0.0	-	-	-
6	NAPA	13.7	0.0	-	-	-
7	LAKE	10.3	0.0	-	-	-
8	HUMBOLDT	9.3	0.0	-	-	-
9	SAN BENITO	4.3	0.0	-	-	-
10	SISKIYOU	4.3	0.0	-	-	-
11	TEHAMA	4.0	0.0	-	-	-
12	MENDOCINO	3.3	0.0	-	-	-
13	GLENN	2.7	0.0	-	-	-
14	CALAVERAS	2.0	0.0	-	-	-
15	COLUSA	1.3	0.0	-	-	-
16	LASSEN	1.3	0.0	-	-	-
17	TUOLUMNE	1.3	0.0	-	-	-
18	PLUMAS	1.0	0.0	-	-	-
19	MONO	0.7	0.0	-	-	-
20	NEVADA	0.7	0.0	-	-	-
21	DEL NORTE	0.3	0.0	-	-	-
22	MARIPOSA	0.3	0.0	-	-	-
23	ALPINE	0.0	0.0	-	-	-
24	AMADOR	0.0	0.0	-	-	-
25	INYO	0.0	0.0	-	-	-
26	MODOC	0.0	0.0	-	-	-
27	SIERRA	0.0	0.0	-	-	-
28	TRINITY	0.0	0.0	-	-	-
29	MERCED	116.0	0.3	2.9 *	0.0	12.6
30	MONTEREY	100.0	0.3	3.3 *	0.0	14.6
31	SAN MATEO	223.7	1.0	4.5 *	0.0	13.2
<b>HEALTHY PEOPLE 2010 NATIONAL OBJECTIVE (16-1c)</b>				<b>4.5</b>		
32	CONTRA COSTA	1,165.7	8.7	7.4 *	2.5	12.4
33	SOLANO	730.0	6.0	8.2 *	1.6	14.8
34	KINGS	120.0	1.0	8.3 *	0.0	24.7
35	SANTA CLARA	509.7	4.3	8.5 *	0.5	16.5
36	SANTA BARBARA	78.0	0.7	8.5 *	0.0	29.1
37	ALAMEDA	2,646.7	22.7	8.6	5.0	12.1
38	RIVERSIDE	1,364.7	12.0	8.8 *	3.8	13.8
39	VENTURA	141.3	1.3	9.4 *	0.0	25.4
40	STANISLAUS	144.3	1.7	11.5 *	0.0	29.1
41	LOS ANGELES	11,274.3	131.0	11.6	9.6	13.6
<b>CALIFORNIA</b>		<b>29,231.0</b>	<b>339.0</b>	<b>11.6</b>	<b>10.4</b>	<b>12.8</b>
42	MARIN	57.0	0.7	11.7 *	0.0	39.8
43	SAN DIEGO	2,195.3	26.0	11.8	7.3	16.4
44	PLACER	28.0	0.3	11.9 *	0.0	52.3
45	SACRAMENTO	1,988.0	24.0	12.1	7.2	16.9
46	KERN	682.3	8.3	12.2 *	3.9	20.5
47	ORANGE	450.7	5.7	12.6 *	2.2	22.9
48	SONOMA	78.0	1.0	12.8 *	0.0	37.9
49	TULARE	77.7	1.0	12.9 *	0.0	38.1
50	MADERA	48.7	0.7	13.7 *	0.0	46.6
51	FRESNO	791.0	11.7	14.7 *	6.3	23.2
52	IMPERIAL	21.0	0.3	15.9 *	0.0	69.8
53	SAN FRANCISCO	625.3	10.0	16.0 *	6.1	25.9
54	SAN BERNARDINO	2,602.7	41.7	16.0	11.1	20.9
55	BUTTE	37.0	0.7	18.0 *	0.0	61.3
56	SANTA CRUZ	15.7	0.3	21.3 *	0.0	93.5
57	SAN JOAQUIN	717.3	15.3	21.4 *	10.7	32.1
58	EL DORADO	7.7	0.3	43.5 *	0.0	191.1

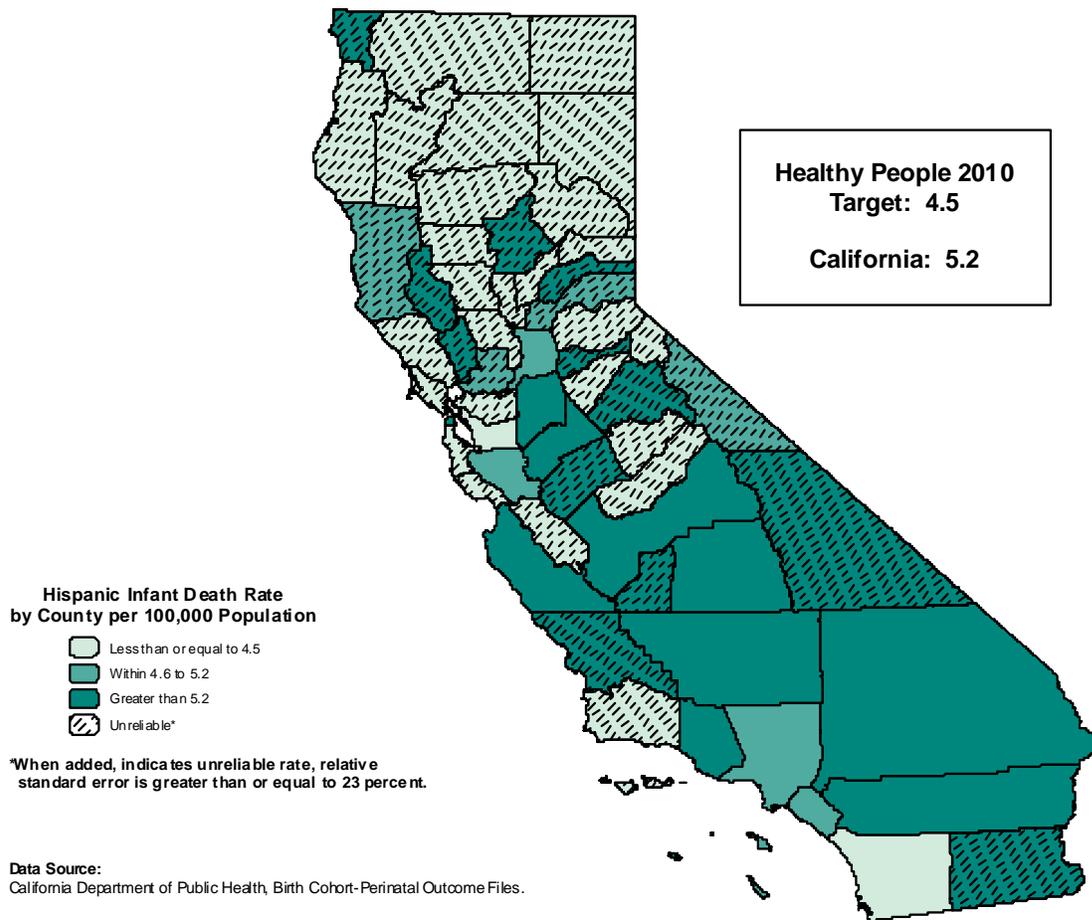
- Rates, percentages, and confidence limits are not calculated for zero events.

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

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

Source: California Department of Public Health: Birth Cohort-Perinatal Outcome Files, 2002-2004.

## HISPANIC INFANT MORTALITY, 2002-2004



The Hispanic birth cohort infant death rate for California was 5.2 deaths per 1,000 live births, a risk of dying equivalent to approximately one infant death for every 192 births. This rate was based on the 1,401.0 deaths among 269,309.0 live births, the three-year average for the years 2002 to 2004.

Among counties with “reliable” rates, the birth cohort infant death rate for Hispanics ranged from 7.1 in Stanislaus County to 4.2 in Alameda County, a difference in rates by a factor of 1.7 to 1.

Twenty-eight counties (two with reliable rates) met the Healthy People 2010 National Objective 16-1c of no more than 4.5 infant deaths per 1,000 birth cohort live births. The statewide Hispanic infant death rate did not meet the national objective.

**TABLE 24D  
HISPANIC INFANT MORTALITY  
RANKED BY THREE-YEAR AVERAGE BIRTH COHORT INFANT DEATH RATE  
CALIFORNIA COUNTIES, 2002-2004**

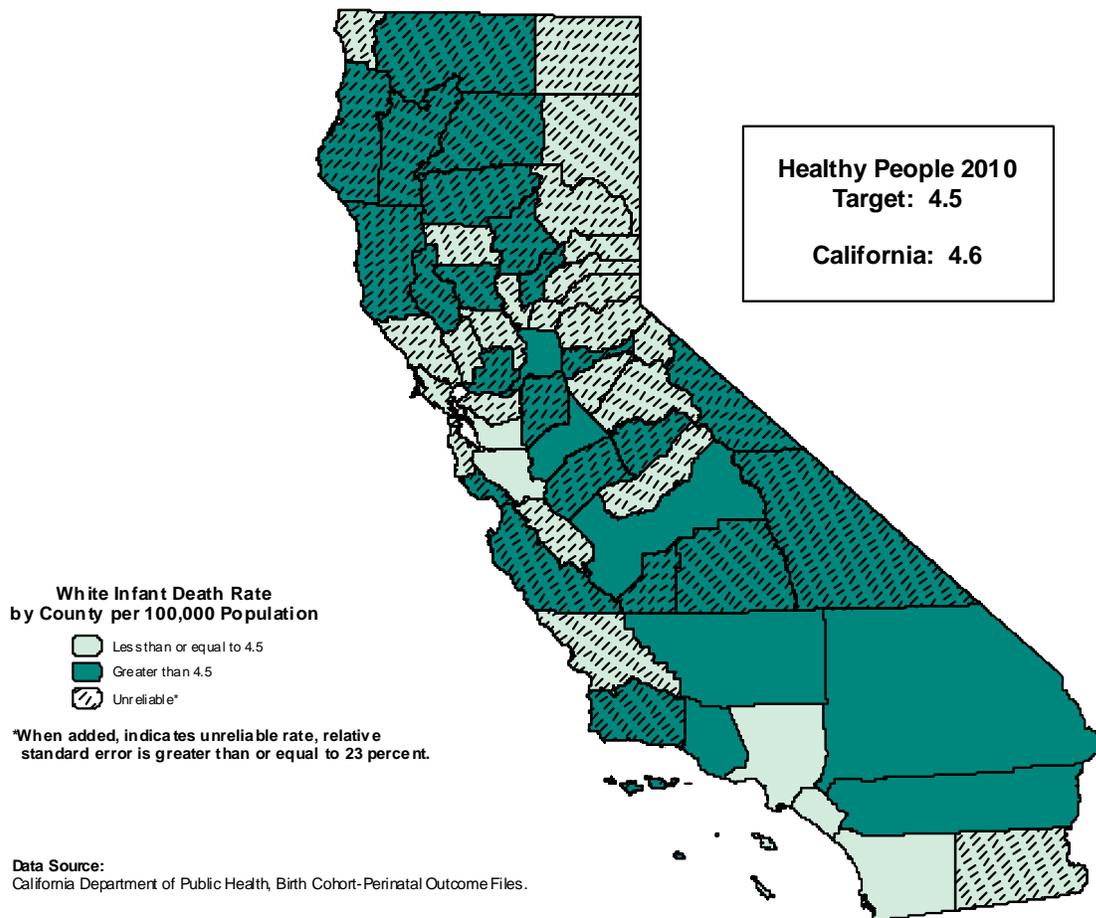
RANK ORDER	COUNTY	THREE-YEAR AVERAGE		BIRTH COHORT INFANT DEATH RATE	95% CONFIDENCE LIMITS	
		LIVE BIRTHS	INFANT DEATHS		LOWER	UPPER
1	SISKIYOU	78.7	0.0	-	-	-
2	CALAVERAS	43.3	0.0	-	-	-
3	LASSEN	42.3	0.0	-	-	-
4	PLUMAS	15.7	0.0	-	-	-
5	MARIPOSA	12.0	0.0	-	-	-
6	MODOC	10.7	0.0	-	-	-
7	TRINITY	8.7	0.0	-	-	-
8	SIERRA	1.3	0.0	-	-	-
9	ALPINE	1.0	0.0	-	-	-
10	COLUSA	217.3	0.3	1.5 *	0.0	6.7
11	SAN BENITO	595.7	1.0	1.7 *	0.0	5.0
12	GLENN	188.0	0.3	1.8 *	0.0	7.8
13	MARIN	670.7	1.7	2.5 *	0.0	6.3
14	TEHAMA	217.3	0.7	3.1 *	0.0	10.4
15	SHASTA	207.3	0.7	3.2 *	0.0	10.9
16	HUMBOLDT	178.0	0.7	3.7 *	0.0	12.7
17	EL DORADO	347.3	1.3	3.8 *	0.0	10.4
18	SONOMA	2,255.7	8.7	3.8 *	1.3	6.4
19	CONTRA COSTA	4,156.3	16.0	3.8 *	2.0	5.7
20	SANTA BARBARA	3,639.3	14.3	3.9 *	1.9	6.0
21	YUBA	334.3	1.3	4.0 *	0.0	10.8
22	SUTTER	497.7	2.0	4.0 *	0.0	9.6
23	MADERA	1,557.0	6.3	4.1 *	0.9	7.2
24	SAN MATEO	3,298.3	13.7	4.1 *	1.9	6.3
25	ALAMEDA	6,416.0	27.0	4.2	2.6	5.8
26	SAN DIEGO	19,781.3	86.0	4.3	3.4	5.3
27	SANTA CRUZ	1,830.3	8.0	4.4 *	1.3	7.4
28	YOLO	1,033.0	4.7	4.5 *	0.4	8.6
<b>HEALTHY PEOPLE 2010 NATIONAL OBJECTIVE (16-1c)</b>				<b>4.5</b>		
29	SOLANO	1,809.0	8.3	4.6 *	1.5	7.7
30	SACRAMENTO	5,409.0	25.0	4.6	2.8	6.4
31	MONO	69.3	0.3	4.8 *	0.0	21.1
32	SANTA CLARA	9,303.7	46.3	5.0	3.5	6.4
33	MENDOCINO	396.7	2.0	5.0 *	0.0	12.0
34	LOS ANGELES	94,912.0	480.7	5.1	4.6	5.5
35	ORANGE	22,292.7	113.3	5.1	4.1	6.0
36	PLACER	646.0	3.3	5.2 *	0.0	10.7
<b>CALIFORNIA</b>		<b>269,309.0</b>	<b>1,401.0</b>	<b>5.2</b>	<b>4.9</b>	<b>5.5</b>
37	IMPERIAL	2,474.0	13.0	5.3 *	2.4	8.1
38	MONTEREY	5,281.0	28.0	5.3	3.3	7.3
39	KERN	7,436.0	39.7	5.3	3.7	7.0
40	TULARE	5,371.7	29.0	5.4	3.4	7.4
41	TUOLUMNE	61.7	0.3	5.4 *	0.0	23.8
42	INYO	60.3	0.3	5.5 *	0.0	24.3
43	NEVADA	119.3	0.7	5.6 *	0.0	19.0
44	SAN FRANCISCO	1,779.7	10.0	5.6 *	2.1	9.1
45	DEL NORTE	58.0	0.3	5.7 *	0.0	25.3
46	NAPA	798.3	4.7	5.8 *	0.5	11.1
47	RIVERSIDE	15,998.3	94.7	5.9	4.7	7.1
48	SAN LUIS OBISPO	835.7	5.0	6.0 *	0.7	11.2
49	SAN BERNARDINO	17,279.0	105.3	6.1	4.9	7.3
50	SAN JOAQUIN	4,984.3	31.3	6.3	4.1	8.5
51	VENTURA	6,139.3	38.7	6.3	4.3	8.3
52	MERCED	2,678.3	17.0	6.3 *	3.3	9.4
53	LAKE	156.7	1.0	6.4 *	0.0	18.9
54	FRESNO	9,337.0	65.3	7.0	5.3	8.7
55	BUTTE	428.3	3.0	7.0 *	0.0	14.9
56	STANISLAUS	4,181.0	29.7	7.1	4.5	9.6
57	KINGS	1,342.7	9.7	7.2 *	2.7	11.7
58	AMADOR	35.3	0.3	9.4 *	0.0	41.5

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

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

Note: Counties were rank ordered first by increasing birth cohort death rate (calculated to 15 decimal places), second by decreasing total number of live births.  
Source: California Department of Public Health: Birth Cohort-Perinatal Outcome Files, 2002-2004.

## WHITE INFANT MORTALITY, 2002-2004



The White birth cohort infant death rate for California was 4.6 deaths per 1,000 live births, a risk of dying equivalent to approximately one infant death for every 219 births. This rate was based on the 735.3 deaths among 161,329.3 live births, the three-year average for the years 2002 to 2004.

Among counties with “reliable” rates, the birth cohort infant death rate for Whites ranged from 6.7 in Kern County to 2.9 in Santa Clara County, a difference in rates by a factor of 2.3 to 1.

Twenty-nine counties (five with reliable rates) met the Healthy People 2010 National Objective 16-1c of no more than 4.5 infant deaths per 1,000 birth cohort live births. The statewide White infant death rate did not meet the national objective.

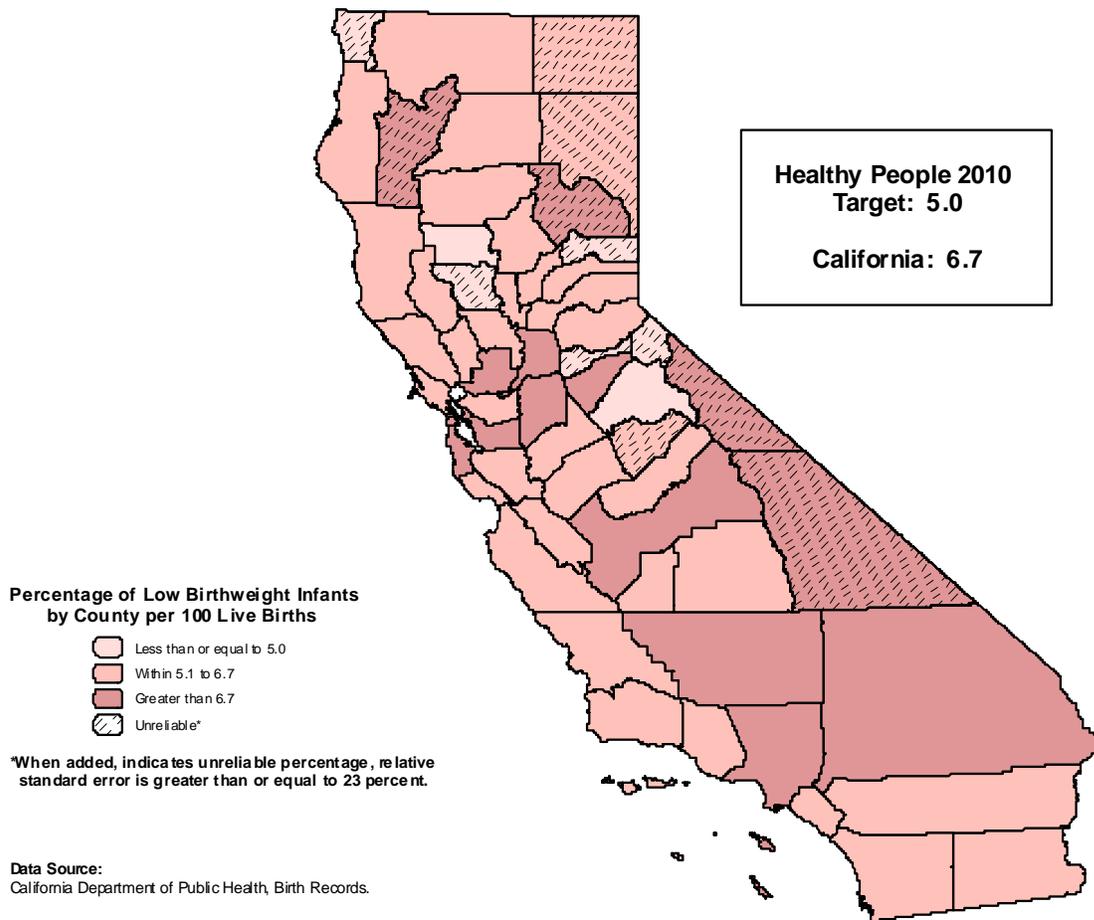
**TABLE 24E  
WHITE INFANT MORTALITY  
RANKED BY THREE-YEAR AVERAGE BIRTH COHORT INFANT DEATH RATE  
CALIFORNIA COUNTIES, 2002-2004**

RANK ORDER	COUNTY	THREE-YEAR AVERAGE		BIRTH COHORT INFANT DEATH RATE	95% CONFIDENCE LIMITS	
		LIVE BIRTHS	INFANT DEATHS		LOWER	UPPER
1	MODOC	65.7	0.0	-	-	-
2	SIERRA	23.7	0.0	-	-	-
3	ALPINE	5.7	0.0	-	-	-
4	NAPA	693.3	1.0	1.4 *	0.0	4.3
5	IMPERIAL	262.0	0.7	2.5 *	0.0	8.7
6	SAN FRANCISCO	3,178.3	8.3	2.6 *	0.8	4.4
7	TUOLUMNE	374.7	1.0	2.7 *	0.0	7.9
8	MARIN	1,811.0	5.0	2.8 *	0.3	5.2
9	SANTA CLARA	6,888.0	20.0	2.9	1.6	4.2
10	NEVADA	670.7	2.0	3.0 *	0.0	7.1
11	CONTRA COSTA	5,272.7	16.3	3.1 *	1.6	4.6
12	SAN LUIS OBISPO	1,548.3	5.0	3.2 *	0.4	6.1
13	SAN MATEO	3,673.0	12.0	3.3 *	1.4	5.1
14	ALAMEDA	5,805.7	19.7	3.4	1.9	4.9
15	GLENN	196.7	0.7	3.4 *	0.0	11.5
16	SUTTER	585.3	2.0	3.4 *	0.0	8.2
17	YOLO	1,031.3	3.7	3.6 *	0.0	7.2
18	ORANGE	14,590.3	52.3	3.6	2.6	4.6
19	DEL NORTE	180.7	0.7	3.7 *	0.0	12.5
20	SONOMA	3,006.7	11.3	3.8 *	1.6	6.0
21	CALAVERAS	261.0	1.0	3.8 *	0.0	11.3
22	SAN BENITO	259.0	1.0	3.9 *	0.0	11.4
23	LOS ANGELES	27,326.3	114.0	4.2	3.4	4.9
24	LASSEN	234.0	1.0	4.3 *	0.0	12.6
25	PLACER	2,634.7	11.3	4.3 *	1.8	6.8
26	SAN DIEGO	16,151.0	70.7	4.4	3.4	5.4
27	PLUMAS	150.3	0.7	4.4 *	0.0	15.1
28	MADERA	592.3	2.7	4.5 *	0.0	9.9
29	EL DORADO	1,330.3	6.0	4.5 *	0.9	8.1
<b>HEALTHY PEOPLE 2010 NATIONAL OBJECTIVE (16-1c)</b>				<b>4.5</b>		
<b>CALIFORNIA</b>				<b>4.6</b>	<b>4.2</b>	<b>4.9</b>
30	SOLANO	2,137.7	10.3	4.8 *	1.9	7.8
31	TULARE	1,839.7	9.0	4.9 *	1.7	8.1
32	VENTURA	4,228.7	21.0	5.0	2.8	7.1
33	SACRAMENTO	8,905.3	45.0	5.1	3.6	6.5
34	SANTA BARBARA	1,828.3	9.3	5.1 *	1.8	8.4
35	RIVERSIDE	8,864.0	45.3	5.1	3.6	6.6
36	SHASTA	1,615.7	8.7	5.4 *	1.8	8.9
37	SANTA CRUZ	1,354.7	7.7	5.7 *	1.7	9.7
38	SAN JOAQUIN	3,058.7	17.3	5.7 *	3.0	8.3
39	MARIPOSA	117.0	0.7	5.7 *	0.0	19.4
40	BUTTE	1,623.7	10.0	6.2 *	2.3	10.0
41	FRESNO	3,630.0	23.3	6.4	3.8	9.0
42	MERCED	1,077.3	7.0	6.5 *	1.7	11.3
43	STANISLAUS	3,009.3	19.7	6.5	3.6	9.4
44	SAN BERNARDINO	8,771.3	57.3	6.5	4.8	8.2
45	INYO	100.3	0.7	6.6 *	0.0	22.6
46	KERN	4,087.7	27.3	6.7	4.2	9.2
47	LAKE	444.3	3.0	6.8 *	0.0	14.4
48	MONTEREY	1,462.3	10.0	6.8 *	2.6	11.1
49	MENDOCINO	578.3	4.0	6.9 *	0.1	13.7
50	HUMBOLDT	1,044.7	7.3	7.0 *	1.9	12.1
51	SISKIYOU	326.3	2.3	7.2 *	0.0	16.3
52	AMADOR	222.3	1.7	7.5 *	0.0	18.9
53	TRINITY	88.7	0.7	7.5 *	0.0	25.6
54	YUBA	657.7	5.0	7.6 *	0.9	14.3
55	TEHAMA	472.3	3.7	7.8 *	0.0	15.7
56	KINGS	809.7	6.3	7.8 *	1.7	13.9
57	MONO	73.7	0.7	9.0 *	0.0	30.8
58	COLUSA	97.0	1.0	10.3 *	0.0	30.5

- Rates, percentages, and confidence limits are not calculated for zero events.  
\* Death rate unreliable, relative standard error is greater than or equal to 23 percent.

Note: Counties were rank ordered first by increasing birth cohort death rate (calculated to 15 decimal places), second by decreasing total number of live births.  
Source: California Department of Public Health: Birth Cohort-Perinatal Outcome Files, 2002-2004.

## LOW BIRTHWEIGHT INFANTS, 2003-2005



The percentage of low birthweight infants for California was 6.7 per 100 live births, a percent equivalent to one in 15 live births. This percentage was based on a three-year average number of low birthweight infants of 36,597.7 and a three-year average total number of live births of 544,719.7 from 2003 to 2005.

Among counties with “reliable” percentages, the percent of low birthweight infants ranged from 7.2 in Calaveras and Los Angeles Counties to 4.6 in Glenn County, a difference in percentages by a factor of 1.6 to 1.

Seven counties (two with reliable percentages) met the Healthy People 2010 National Objective 16-10a of reducing the incidence of low birthweight infants to no more than 5.0 percent of total births. The statewide percentage of low birthweight infants did not meet the national objective.

**TABLE 25  
LOW BIRTHWEIGHT INFANTS  
RANKED BY THREE-YEAR AVERAGE LOW BIRTHWEIGHT PERCENTAGE  
CALIFORNIA COUNTIES, 2003-2005**

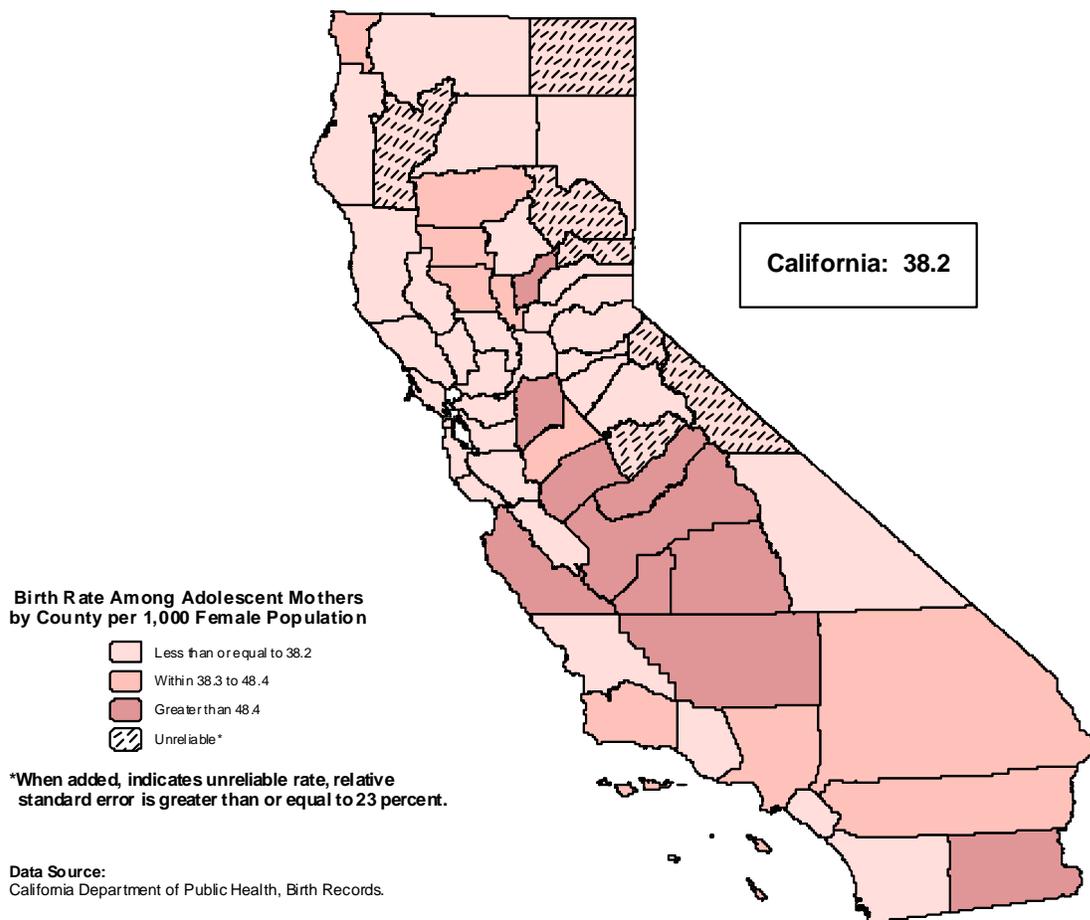
RANK ORDER	COUNTY	2003-2005 LIVE BIRTHS (AVERAGE)			95% CONFIDENCE LIMITS	
		LIVE BIRTHS	LOW BIRTHWEIGHT		LOWER	UPPER
			NUMBER	PERCENT		
1	SIERRA	27.7	0.7	2.4 *	0.0	8.2
2	ALPINE	12.3	0.3	2.7 *	0.0	11.9
3	AMADOR	283.0	11.7	4.1 *	1.8	6.5
4	COLUSA	352.0	15.7	4.5 *	2.2	6.7
5	GLENN	420.0	19.3	4.6	2.6	6.7
6	TUOLUMNE	463.7	21.7	4.7	2.7	6.6
7	DEL NORTE	303.7	14.7	4.8 *	2.4	7.3
<b>HEALTHY PEOPLE 2010 NATIONAL OBJECTIVE (16-10a)</b>				<b>5.0</b>		
8	MARIPOSA	135.7	7.0	5.2 *	1.3	9.0
9	YOLO	2,430.0	126.3	5.2	4.3	6.1
10	SAN BENITO	882.3	47.3	5.4	3.8	6.9
11	SANTA CRUZ	3,412.3	185.3	5.4	4.6	6.2
12	NAPA	1,645.7	90.7	5.5	4.4	6.6
13	PLACER	3,753.0	212.0	5.6	4.9	6.4
14	SUTTER	1,392.7	79.7	5.7	4.5	7.0
15	SONOMA	5,806.7	332.3	5.7	5.1	6.3
16	BUTTE	2,395.7	139.0	5.8	4.8	6.8
17	LASSEN	296.7	17.3	5.8 *	3.1	8.6
18	IMPERIAL	2,942.3	173.7	5.9	5.0	6.8
19	NEVADA	819.3	49.3	6.0	4.3	7.7
20	TEHAMA	776.7	47.3	6.1	4.4	7.8
21	TULARE	7,908.7	485.0	6.1	5.6	6.7
22	ORANGE	44,830.0	2,778.7	6.2	6.0	6.4
23	MONTEREY	7,440.0	462.3	6.2	5.6	6.8
24	MENDOCINO	1,115.7	69.3	6.2	4.8	7.7
25	HUMBOLDT	1,517.0	94.3	6.2	5.0	7.5
26	EL DORADO	1,859.3	115.7	6.2	5.1	7.4
27	MODOC	85.0	5.3	6.3 *	0.9	11.6
28	SAN LUIS OBISPO	2,659.3	168.3	6.3	5.4	7.3
29	MERCED	4,348.0	277.3	6.4	5.6	7.1
30	MADERA	2,328.7	148.7	6.4	5.4	7.4
31	MARIN	2,802.3	179.7	6.4	5.5	7.3
32	SAN DIEGO	45,674.3	2,942.0	6.4	6.2	6.7
33	RIVERSIDE	29,693.0	1,914.7	6.4	6.2	6.7
34	STANISLAUS	8,175.7	528.7	6.5	5.9	7.0
35	LAKE	699.3	45.3	6.5	4.6	8.4
36	SHASTA	2,076.3	135.0	6.5	5.4	7.6
37	YUBA	1,212.7	79.0	6.5	5.1	8.0
38	SANTA CLARA	26,695.0	1,747.0	6.5	6.2	6.9
39	KINGS	2,489.3	163.0	6.5	5.5	7.6
40	SANTA BARBARA	6,066.7	400.3	6.6	6.0	7.2
41	VENTURA	12,040.7	796.3	6.6	6.2	7.1
42	CONTRA COSTA	13,210.7	882.0	6.7	6.2	7.1
43	SISKIYOU	476.7	32.0	6.7	4.4	9.0
<b>CALIFORNIA</b>		<b>544,719.7</b>	<b>36,597.7</b>	<b>6.7</b>	<b>6.6</b>	<b>6.8</b>
44	SAN MATEO	10,068.7	680.7	6.8	6.3	7.3
45	SAN JOAQUIN	10,985.3	743.3	6.8	6.3	7.3
46	SACRAMENTO	20,814.7	1,431.7	6.9	6.5	7.2
47	SAN FRANCISCO	8,547.0	591.7	6.9	6.4	7.5
48	SOLANO	5,747.7	401.0	7.0	6.3	7.7
49	KERN	13,453.7	944.3	7.0	6.6	7.5
50	FRESNO	15,744.3	1,106.3	7.0	6.6	7.4
51	SAN BERNARDINO	31,932.7	2,251.7	7.1	6.8	7.3
52	ALAMEDA	21,131.0	1,501.0	7.1	6.7	7.5
53	LOS ANGELES	151,352.7	10,831.7	7.2	7.0	7.3
54	TRINITY	111.7	8.0	7.2 *	2.2	12.1
55	PLUMAS	176.3	12.7	7.2 *	3.2	11.1
56	CALAVERAS	338.7	24.3	7.2	4.3	10.0
57	MONO	154.0	11.7	7.6 *	3.2	11.9
58	INYO	205.7	16.3	7.9 *	4.1	11.8

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

Note: Counties were rank ordered first by increasing percentage of low birthweight infants (calculated to 15 decimal places), second by decreasing size of the total number of live births.

Source: California Department of Public Health: Birth Statistical Master Files, 2003-2005.

## BIRTHS TO ADOLESCENT MOTHERS, 15 TO 19 YEARS OLD, 2003-2005



The age-specific birth rate to adolescents, aged 15 to 19, in California was 38.2 per 1,000 female population, a rate equivalent to approximately one birth for every 26 adolescent females. This rate was based on the 2003 to 2005 average of 49,694.7 births and a female population for the same age group of 1,300,741 as of July 1, 2004.

Among counties with “reliable” rates, the age-specific birth rate ranged from 66.6 in Kings County to 11.7 in Marin County, a difference in rates by a factor of 5.7 to 1.

A Healthy People 2010 National Objective for births to adolescents, aged 15 to 19, has not been established.

**TABLE 26  
BIRTHS TO ADOLESCENT MOTHERS, 15 TO 19 YEARS OLD  
RANKED BY THREE-YEAR AVERAGE AGE-SPECIFIC BIRTH RATE  
CALIFORNIA COUNTIES, 2003-2005**

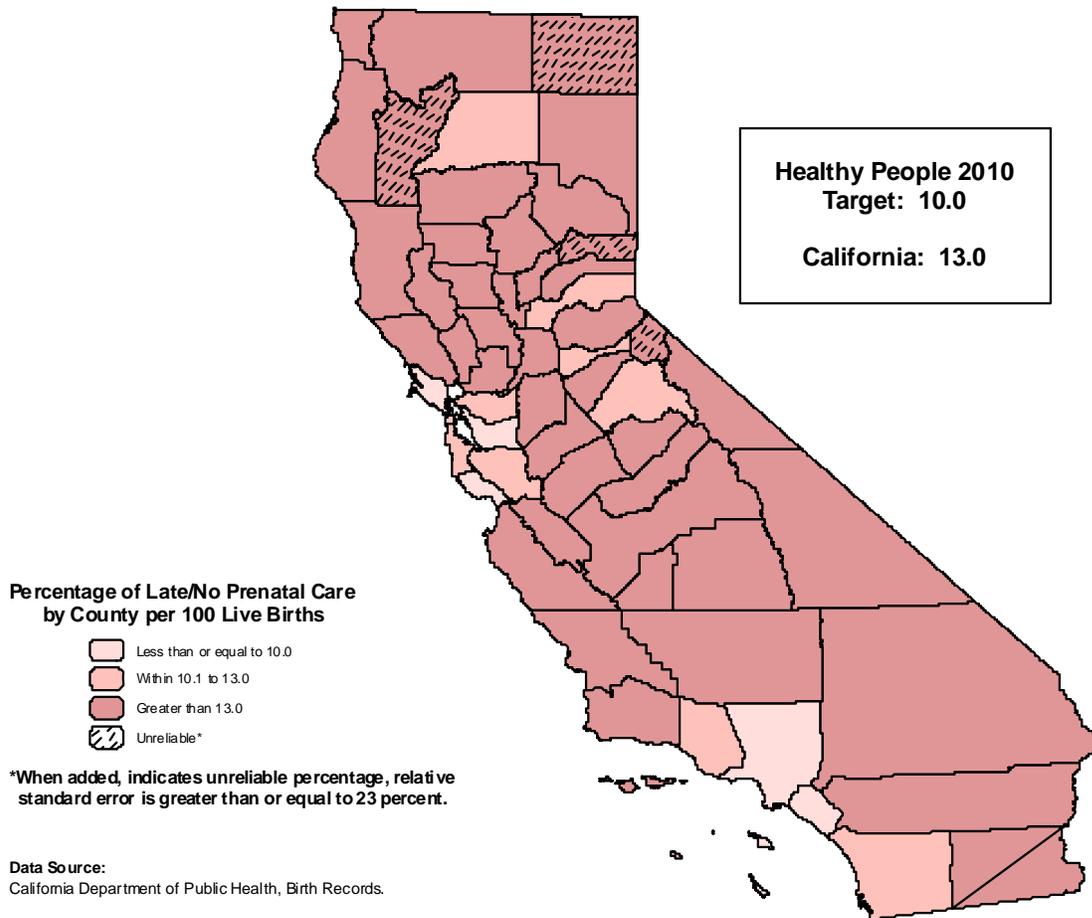
RANK ORDER	COUNTY	2004 FEMALE POPULATION 15-19 YRS OLD	2003-2005 LIVE BIRTHS (AVERAGE)	AGE-SPECIFIC BIRTH RATE	95% CONFIDENCE LIMITS	
					LOWER	UPPER
<b>HEALTHY PEOPLE 2010 NATIONAL OBJECTIVE: NONE ESTABLISHED</b>						
1	SIERRA	138	0.7	4.8 *	0.0	16.4
2	MARIN	6,833	80.0	11.7	9.1	14.3
3	NEVADA	3,591	59.3	16.5	12.3	20.7
4	PLACER	11,440	191.7	16.8	14.4	19.1
5	EL DORADO	6,932	122.0	17.6	14.5	20.7
6	MONO	414	8.3	20.1 *	6.5	33.8
7	PLUMAS	792	16.0	20.2 *	10.3	30.1
8	ALPINE	49	1.0	20.4 *	0.0	60.4
9	CALAVERAS	1,641	34.3	20.9	13.9	27.9
10	SAN LUIS OBISPO	9,969	213.0	21.4	18.5	24.2
11	YOLO	9,258	202.3	21.9	18.8	24.9
12	SAN MATEO	20,345	454.0	22.3	20.3	24.4
13	TUOLUMNE	1,851	41.3	22.3	15.5	29.1
14	SAN FRANCISCO	14,066	326.7	23.2	20.7	25.7
15	CONTRA COSTA	36,056	837.7	23.2	21.7	24.8
16	TRINITY	501	11.7	23.3 *	9.9	36.6
17	MARIPOSA	609	15.0	24.6 *	12.2	37.1
18	AMADOR	1,142	28.3	24.8	15.7	33.9
19	SANTA CLARA	51,828	1,356.3	26.2	24.8	27.6
20	SONOMA	16,496	433.0	26.2	23.8	28.7
21	ALAMEDA	46,997	1,280.7	27.2	25.8	28.7
22	HUMBOLDT	5,090	140.3	27.6	23.0	32.1
23	MODOC	376	11.0	29.3 *	12.0	46.5
24	NAPA	4,397	129.7	29.5	24.4	34.6
25	BUTTE	8,843	261.7	29.6	26.0	33.2
26	ORANGE	102,423	3,076.7	30.0	29.0	31.1
27	SOLANO	16,055	486.7	30.3	27.6	33.0
28	LASSEN	1,129	35.3	31.3	21.0	41.6
29	SANTA CRUZ	9,499	300.0	31.6	28.0	35.2
30	SISKIYOU	1,752	58.0	33.1	24.6	41.6
31	VENTURA	29,916	998.3	33.4	31.3	35.4
32	SAN BENITO	2,294	79.0	34.4	26.8	42.0
33	INYO	662	23.3	35.2	20.9	49.5
34	SAN DIEGO	102,498	3,688.3	36.0	34.8	37.1
35	LAKE	2,347	86.7	36.9	29.2	44.7
36	SACRAMENTO	50,479	1,871.0	37.1	35.4	38.7
37	SHASTA	6,980	259.0	37.1	32.6	41.6
38	MENDOCINO	3,430	127.3	37.1	30.7	43.6
	<b>CALIFORNIA</b>	<b>1,300,741</b>	<b>49,694.7</b>	<b>38.2</b>	<b>37.9</b>	<b>38.5</b>
39	LOS ANGELES	345,209	14,045.3	40.7	40.0	41.4
40	SANTA BARBARA	15,128	619.0	40.9	37.7	44.1
41	RIVERSIDE	78,311	3,220.3	41.1	39.7	42.5
42	SUTTER	3,400	140.7	41.4	34.5	48.2
43	DEL NORTE	1,123	47.7	42.4	30.4	54.5
44	TEHAMA	2,413	107.0	44.3	35.9	52.7
45	STANISLAUS	21,064	957.0	45.4	42.6	48.3
46	SAN BERNARDINO	83,392	3,818.0	45.8	44.3	47.2
47	GLENN	1,214	56.7	46.7	34.5	58.8
48	COLUSA	894	43.0	48.1	33.7	62.5
49	SAN JOAQUIN	26,500	1,291.3	48.7	46.1	51.4
50	MERCED	10,601	573.7	54.1	49.7	58.5
51	FRESNO	37,460	2,138.7	57.1	54.7	59.5
52	IMPERIAL	7,418	429.0	57.8	52.4	63.3
53	YUBA	2,835	164.0	57.8	49.0	66.7
54	MONTEREY	14,923	876.7	58.7	54.9	62.6
55	KERN	31,366	1,955.7	62.3	59.6	65.1
56	MADERA	5,249	336.7	64.1	57.3	71.0
57	TULARE	17,880	1,179.3	66.0	62.2	69.7
58	KINGS	5,243	349.3	66.6	59.6	73.6

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

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

Source: California Department of Public Health: Birth Statistical Master Files, 2003-2005.

## PRENATAL CARE NOT BEGUN DURING THE FIRST TRIMESTER OF PREGNANCY, 2003-2005



The percentage of births to mothers with late or no prenatal care for California was 13.0 per 100 live births. This percentage was based on a three-year average number of births to mothers with late or no prenatal care of 69,894.7 and a three-year average total number of live births of 537,086.3 from 2003 to 2005.

Among counties with “reliable” percentages, the percent of births to mothers with late or no prenatal care ranged from 33.9 in Merced County to 4.3 in Marin County, a difference in percentages by a factor of 7.9 to 1.

Five counties with reliable percentages met the Healthy People 2010 National Objective 16-6a of reducing the percentage of mothers with late or no prenatal care to no more than 10.0 percent of total births. The statewide percentage of mothers with late or no prenatal care did not meet the national objective.

**TABLE 27A  
 PRENATAL CARE NOT BEGUN DURING THE FIRST TRIMESTER OF PREGNANCY  
 RANKED BY PERCENTAGE OF THREE-YEAR AVERAGE LATE/NO PRENATAL CARE  
 CALIFORNIA COUNTIES, 2003-2005**

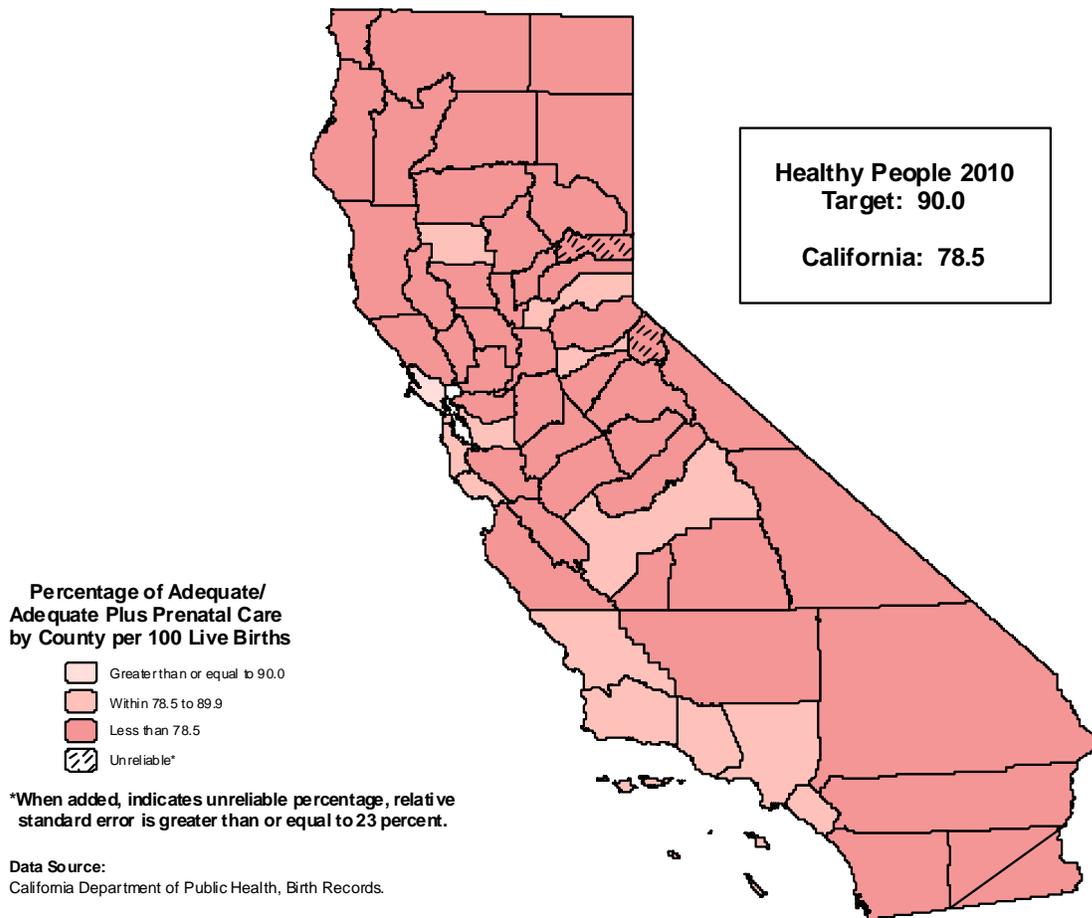
RANK ORDER	COUNTY	2003-2005 LIVE BIRTHS (AVERAGE)			95% CONFIDENCE LIMITS	
		TOTAL NUMBER	LATE/NO PRENATAL CARE		LOWER	UPPER
			NUMBER	PERCENT		
1	MARIN	2,799.3	120.7	4.3	3.5	5.1
2	ORANGE	44,691.0	3,703.0	8.3	8.0	8.6
3	LOS ANGELES	149,896.3	13,638.3	9.1	8.9	9.3
4	ALAMEDA	20,963.0	2,014.0	9.6	9.2	10.0
5	SANTA CRUZ	3,394.3	340.0	10.0	9.0	11.1
<b>HEALTHY PEOPLE 2010 NATIONAL OBJECTIVE (16-6a)</b>				<b>10.0</b>		
6	SAN MATEO	10,039.0	1,045.0	10.4	9.8	11.0
7	PLACER	3,737.0	395.7	10.6	9.5	11.6
8	SHASTA	2,066.0	219.0	10.6	9.2	12.0
9	AMADOR	281.3	30.3	10.8	6.9	14.6
10	TUOLUMNE	462.3	50.0	10.8	7.8	13.8
11	CONTRA COSTA	13,108.0	1,519.7	11.6	11.0	12.2
12	SAN FRANCISCO	8,496.3	996.3	11.7	11.0	12.5
13	VENTURA	12,029.0	1,415.3	11.8	11.2	12.4
14	SAN DIEGO	44,779.7	5,569.3	12.4	12.1	12.8
15	SANTA CLARA	26,003.3	3,280.7	12.6	12.2	13.0
<b>CALIFORNIA</b>		<b>537,086.3</b>	<b>69,894.7</b>	<b>13.0</b>	<b>12.9</b>	<b>13.1</b>
16	EL DORADO	1,850.7	242.7	13.1	11.5	14.8
17	SONOMA	5,796.0	766.7	13.2	12.3	14.2
18	FRESNO	15,691.7	2,096.3	13.4	12.8	13.9
19	STANISLAUS	8,008.3	1,138.0	14.2	13.4	15.0
20	RIVERSIDE	29,312.3	4,259.3	14.5	14.1	15.0
21	PLUMAS	175.3	26.0	14.8	9.1	20.5
22	NEVADA	816.0	121.3	14.9	12.2	17.5
23	TRINITY	110.7	17.3	15.7 *	8.3	23.0
24	SAN LUIS OBISPO	2,629.3	412.7	15.7	14.2	17.2
25	CALAVERAS	337.7	55.3	16.4	12.1	20.7
26	SAN BERNARDINO	31,529.0	5,208.0	16.5	16.1	17.0
27	MADERA	2,316.3	393.0	17.0	15.3	18.6
28	HUMBOLDT	1,487.0	253.3	17.0	14.9	19.1
29	NAPA	1,633.7	281.0	17.2	15.2	19.2
30	SANTA BARBARA	6,025.3	1,055.0	17.5	16.5	18.6
31	KERN	12,111.3	2,132.3	17.6	16.9	18.4
32	TULARE	7,872.3	1,404.3	17.8	16.9	18.8
33	DEL NORTE	302.7	54.7	18.1	13.3	22.8
34	SACRAMENTO	20,720.0	3,746.0	18.1	17.5	18.7
35	TEHAMA	770.7	140.7	18.3	15.2	21.3
36	MODOC	82.0	15.0	18.3 *	9.0	27.6
37	MONTEREY	6,482.3	1,205.0	18.6	17.5	19.6
38	SIERRA	27.7	5.3	19.3 *	2.9	35.6
39	LASSEN	296.0	57.3	19.4	14.4	24.4
40	SAN BENITO	876.7	170.3	19.4	16.5	22.3
41	MARIPOSA	131.7	26.0	19.7	12.2	27.3
42	ALPINE	12.0	2.7	22.2 *	0.0	48.9
43	MONO	154.0	34.7	22.5	15.0	30.0
44	SISKIYOU	475.3	108.0	22.7	18.4	27.0
45	COLUSA	351.3	80.0	22.8	17.8	27.8
46	YOLO	2,420.3	565.7	23.4	21.4	25.3
47	BUTTE	2,386.0	567.7	23.8	21.8	25.7
48	IMPERIAL	2,884.3	692.7	24.0	22.2	25.8
49	LAKE	694.3	172.0	24.8	21.1	28.5
50	SOLANO	5,700.3	1,462.3	25.7	24.3	27.0
51	KINGS	2,484.7	647.3	26.1	24.0	28.1
52	SAN JOAQUIN	10,854.3	3,120.3	28.7	27.7	29.8
53	GLENN	414.7	120.7	29.1	23.9	34.3
54	INYO	205.3	60.3	29.4	22.0	36.8
55	SUTTER	1,390.7	444.3	32.0	29.0	34.9
56	MENDOCINO	1,109.0	364.0	32.8	29.5	36.2
57	YUBA	1,208.7	409.0	33.8	30.6	37.1
58	MERCED	4,202.3	1,422.7	33.9	32.1	35.6

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

Note: Counties were rank ordered first by increasing percentage of births to mothers with late or no prenatal care (calculated to 15 decimal places), second by decreasing size of the total number of live births.

Source: California Department of Public Health: Birth Statistical Master Files, 2003-2005.

**“ADEQUATE/ADEQUATE PLUS” PRENATAL CARE  
(ADEQUACY OF PRENATAL CARE UTILIZATION INDEX), 2003-2005**



The percentage of births to mothers with “adequate/adequate plus” prenatal care for California was 78.5 per 100 live births. This percentage was based on a three-year average number of births to mothers with “adequate/adequate plus” prenatal care of 416,536.7 and a three-year average total number of live births of 530,602.7 from 2003 to 2005.

Among counties with “reliable” percentages, the percent of births to mothers with “adequate/adequate plus” prenatal care ranged from 91.4 in Marin County to 56.2 in Merced County, a difference in percentages by a factor of 1.6 to 1.

One county with a reliable percentage met the Healthy People 2010 National Objective 16-6b of increasing the proportion of pregnant women receiving early and adequate prenatal care to 90.0 percent of total births according to the Adequacy of Prenatal Care Utilization Index. The statewide percentage of mothers who received “adequate/adequate plus” prenatal care did not meet the national objective.

**TABLE 27B  
 "ADEQUATE/ADEQUATE PLUS" PRENATAL CARE (ADEQUACY OF PRENATAL CARE UTILIZATION INDEX)  
 RANKED BY PERCENTAGE OF THREE-YEAR AVERAGE "ADEQUATE/ADEQUATE PLUS" PRENATAL CARE  
 CALIFORNIA COUNTIES, 2003-2005**

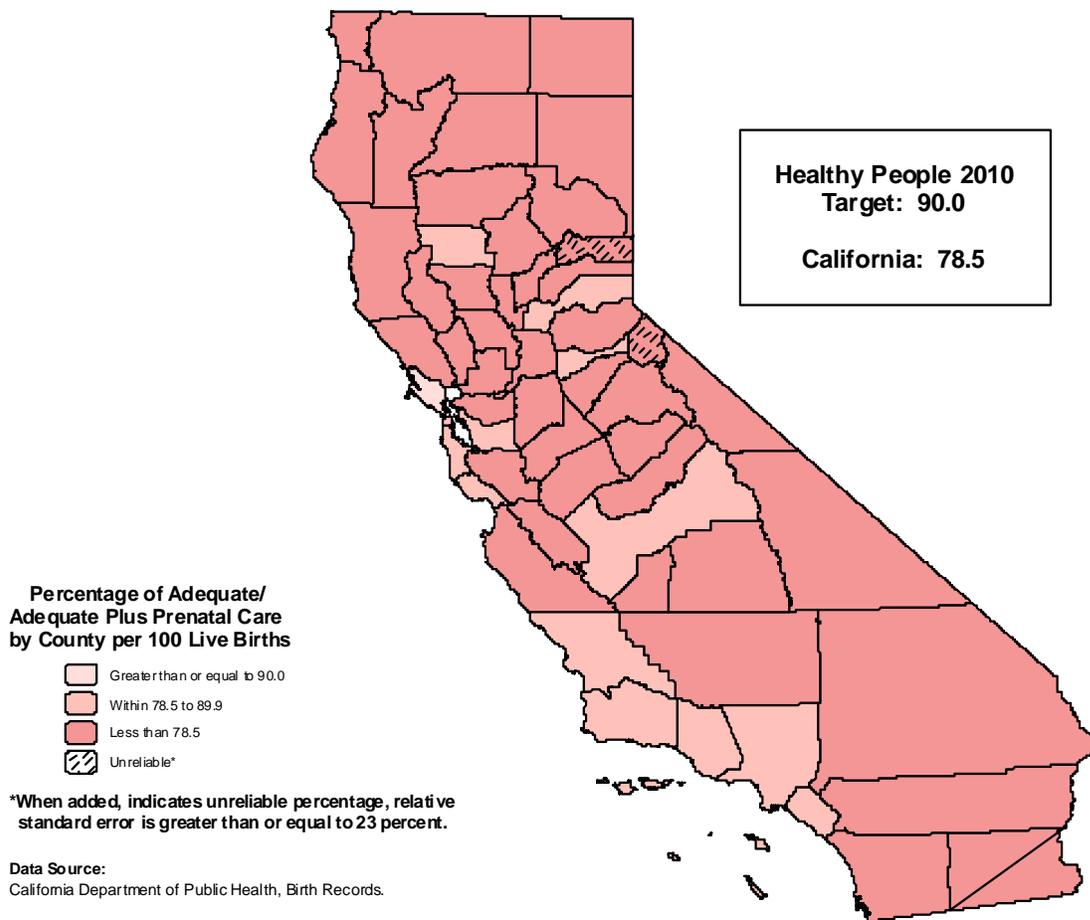
RANK ORDER	COUNTY	2003-2005 LIVE BIRTHS (AVERAGE)			95% CONFIDENCE LIMITS	
		TOTAL NUMBER	ADEQUATE/ADEQUATE PLUS CARE		LOWER	UPPER
			NUMBER	PERCENT		
1	MARIN	2,798.7	2,556.7	91.4	87.8	94.9
<b>HEALTHY PEOPLE 2010 NATIONAL OBJECTIVE (16-6b)</b>				<b>90.0</b>		
2	FRESNO	15,660.3	13,445.3	85.9	84.4	87.3
3	ORANGE	44,633.0	38,279.0	85.8	84.9	86.6
4	SAN MATEO	10,031.3	8,534.7	85.1	83.3	86.9
5	LOS ANGELES	147,051.0	122,220.7	83.1	82.6	83.6
6	SANTA CRUZ	3,389.3	2,780.0	82.0	79.0	85.1
7	SAN LUIS OBISPO	2,614.7	2,136.7	81.7	78.3	85.2
8	SAN FRANCISCO	8,466.0	6,859.7	81.0	79.1	82.9
9	VENTURA	12,010.7	9,588.7	79.8	78.2	81.4
10	SANTA BARBARA	6,007.0	4,749.3	79.1	76.8	81.3
11	AMADOR	281.0	222.0	79.0	68.6	89.4
12	GLENN	409.3	323.3	79.0	70.4	87.6
13	PLACER	3,735.7	2,947.3	78.9	76.0	81.7
14	ALAMEDA	20,813.7	16,340.7	78.5	77.3	79.7
<b>CALIFORNIA</b>		<b>530,602.7</b>	<b>416,536.7</b>	<b>78.5</b>	<b>78.3</b>	<b>78.7</b>
15	CONTRA COSTA	13,019.3	10,104.0	77.6	76.1	79.1
16	DEL NORTE	302.3	232.3	76.8	67.0	86.7
17	SANTA CLARA	25,970.3	19,825.3	76.3	75.3	77.4
18	TUOLUMNE	461.7	351.7	76.2	68.2	84.1
19	SAN BERNARDINO	31,022.7	23,617.0	76.1	75.2	77.1
20	RIVERSIDE	29,169.3	22,138.0	75.9	74.9	76.9
21	MONTEREY	6,422.7	4,859.7	75.7	73.5	77.8
22	COLUSA	351.0	264.7	75.4	66.3	84.5
23	BUTTE	2,374.3	1,785.0	75.2	71.7	78.7
24	MONO	154.0	114.7	74.5	60.8	88.1
25	SUTTER	1,390.0	1,033.7	74.4	69.8	78.9
26	KERN	10,815.7	8,024.7	74.2	72.6	75.8
27	SACRAMENTO	20,691.0	15,306.7	74.0	72.8	75.1
28	SAN DIEGO	44,357.7	32,640.0	73.6	72.8	74.4
29	TULARE	7,840.3	5,762.0	73.5	71.6	75.4
30	NAPA	1,623.0	1,192.7	73.5	69.3	77.7
31	LASSEN	295.0	215.3	73.0	63.2	82.7
32	CALAVERAS	336.7	244.7	72.7	63.6	81.8
33	SHASTA	2,062.7	1,498.0	72.6	68.9	76.3
34	YOLO	2,417.0	1,750.7	72.4	69.0	75.8
35	MADERA	2,306.0	1,667.7	72.3	68.8	75.8
36	TEHAMA	769.0	545.0	70.9	64.9	76.8
37	YUBA	1,207.3	854.7	70.8	66.0	75.5
38	MARIPOSA	128.7	91.0	70.7	56.2	85.3
39	MENDOCINO	1,106.0	779.7	70.5	65.5	75.4
40	KINGS	2,480.3	1,746.7	70.4	67.1	73.7
41	STANISLAUS	7,766.7	5,461.7	70.3	68.5	72.2
42	SONOMA	5,791.3	4,068.3	70.2	68.1	72.4
43	SISKIYOU	471.7	330.3	70.0	62.5	77.6
44	NEVADA	814.0	565.3	69.5	63.7	75.2
45	SOLANO	5,657.3	3,918.3	69.3	67.1	71.4
46	EL DORADO	1,843.0	1,264.0	68.6	64.8	72.4
47	HUMBOLDT	1,476.0	990.3	67.1	62.9	71.3
48	LAKE	691.0	455.3	65.9	59.8	71.9
49	IMPERIAL	2,748.0	1,787.0	65.0	62.0	68.0
50	SAN BENITO	876.0	563.3	64.3	59.0	69.6
51	PLUMAS	175.3	112.7	64.3	52.4	76.1
52	INYO	205.0	131.0	63.9	53.0	74.8
53	MODOC	81.7	52.0	63.7	46.4	81.0
54	SAN JOAQUIN	10,789.7	6,818.3	63.2	61.7	64.7
55	SIERRA	27.3	16.7	61.0 *	31.7	90.2
56	TRINITY	109.7	66.3	60.5	45.9	75.0
57	MERCED	4,091.3	2,299.7	56.2	53.9	58.5
58	ALPINE	12.0	6.7	55.6 *	13.4	97.7

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

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: Birth Statistical Master Files, 2003-2005.

## BREASTFEEDING INITIATION DURING EARLY POSTPARTUM, 2003-2005



The percentage of breastfed infants for California was 86.0 per 100 births where the feeding method was known. This percentage was based on the 427,183.3 breastfed infants among 496,773.0 births with a known feeding method, the three-year average from 2003 to 2005.

Among counties with “reliable” percentages, the percent of breastfed infants ranged from 97.5 in Marin County to 72.5 in Kings County, a difference in percentages by a factor of 1.3 to 1.

Fifty-seven counties (fifty-five with reliable percentages) and California as a whole met the Healthy People 2010 National Objective 16-19a increasing the proportion of mothers’ breastfeeding in the early postpartum period to 75.0 percent of total births.

**TABLE 28  
BREASTFEEDING INITIATION DURING EARLY POSTPARTUM  
RANKED BY THREE-YEAR AVERAGE BREASTFEEDING INITIATION PERCENTAGE  
CALIFORNIA COUNTIES, 2003-2005**

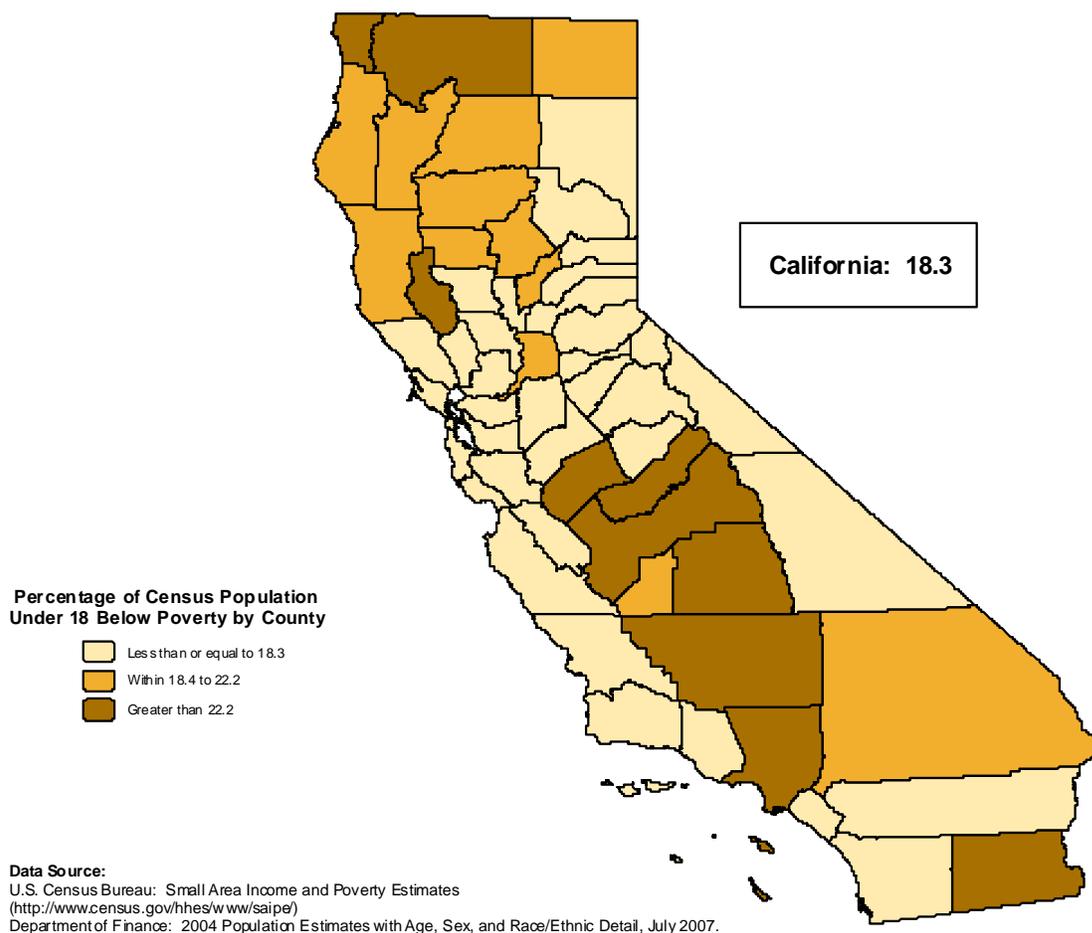
RANK ORDER	COUNTY	2003-2005 BIRTHS (AVERAGE) WITH KNOWN FEEDING METHOD			95% CONFIDENCE LIMITS	
		TOTAL NUMBER	BREASTFED		LOWER	UPPER
			NUMBER	PERCENT		
1	MARIN	2,486.7	2,425.3	97.5	93.7	100.0
2	SIERRA	19.0	18.3	96.5 *	52.3	100.0
3	SANTA CRUZ	3,357.0	3,226.0	96.1	92.8	99.4
4	NEVADA	694.3	665.3	95.8	88.5	100.0
5	SAN MATEO	9,565.7	9,107.7	95.2	93.3	97.2
6	MONO	135.0	128.0	94.8	78.4	100.0
7	SONOMA	5,301.0	5,020.3	94.7	92.1	97.3
8	SAN LUIS OBISPO	2,471.7	2,332.7	94.4	90.5	98.2
9	SANTA CLARA	23,976.7	22,449.3	93.6	92.4	94.9
10	MONTEREY	6,591.7	6,166.7	93.6	91.2	95.9
11	TRINITY	96.3	90.0	93.4	74.1	100.0
12	SANTA BARBARA	5,602.3	5,218.3	93.1	90.6	95.7
13	NAPA	1,472.7	1,371.7	93.1	88.2	98.1
14	PLUMAS	134.7	125.3	93.1	76.8	100.0
15	SAN FRANCISCO	7,743.3	7,180.7	92.7	90.6	94.9
16	ALAMEDA	19,212.0	17,804.7	92.7	91.3	94.0
17	MODOC	58.7	54.3	92.6	68.0	100.0
18	EL DORADO	1,649.0	1,525.3	92.5	87.9	97.1
19	CONTRA COSTA	12,102.3	11,148.3	92.1	90.4	93.8
20	MENDOCINO	1,040.0	957.0	92.0	86.2	97.8
21	PLACER	2,926.0	2,691.0	92.0	88.5	95.4
22	SHASTA	1,903.0	1,747.7	91.8	87.5	96.1
23	INYO	197.3	180.7	91.6	78.2	100.0
24	HUMBOLDT	1,390.0	1,268.3	91.2	86.2	96.3
25	MARIPOSA	121.0	109.7	90.6	73.7	100.0
26	SAN DIEGO	38,313.7	34,655.0	90.5	89.5	91.4
27	SAN BENITO	812.3	734.3	90.4	83.9	96.9
28	TUOLUMNE	440.3	398.0	90.4	81.5	99.3
29	DEL NORTE	272.3	245.7	90.2	78.9	100.0
30	YOLO	2,294.0	2,064.3	90.0	86.1	93.9
31	SISKIYOU	324.3	290.7	89.6	79.3	99.9
32	VENTURA	11,286.0	10,114.0	89.6	87.9	91.4
33	LASSEN	220.3	197.0	89.4	76.9	100.0
34	AMADOR	273.3	243.0	88.9	77.7	100.0
35	TEHAMA	687.3	606.3	88.2	81.2	95.2
36	GLENN	398.3	351.3	88.2	79.0	97.4
37	CALAVERAS	317.0	279.3	88.1	77.8	98.5
38	LAKE	617.0	540.0	87.5	80.1	94.9
39	ALPINE	10.0	8.7	86.7 *	29.0	100.0
40	SOLANO	5,256.0	4,522.0	86.0	83.5	88.5
41	BUTTE	2,203.3	1,894.0	86.0	82.1	89.8
	<b>CALIFORNIA</b>	<b>496,773.0</b>	<b>427,183.3</b>	<b>86.0</b>	<b>85.7</b>	<b>86.2</b>
42	MADERA	2,158.0	1,842.7	85.4	81.5	89.3
43	ORANGE	42,483.0	36,082.0	84.9	84.1	85.8
44	MERCED	3,970.0	3,338.3	84.1	81.2	86.9
45	FRESNO	14,055.7	11,799.0	83.9	82.4	85.5
46	SACRAMENTO	18,870.3	15,825.7	83.9	82.6	85.2
47	COLUSA	321.0	267.0	83.2	73.2	93.2
48	SUTTER	1,262.7	1,048.3	83.0	78.0	88.1
49	SAN JOAQUIN	9,943.3	8,243.3	82.9	81.1	84.7
50	LOS ANGELES	142,181.0	117,768.0	82.8	82.4	83.3
51	RIVERSIDE	26,490.3	21,939.0	82.8	81.7	83.9
52	STANISLAUS	7,609.7	6,279.3	82.5	80.5	84.6
53	KERN	12,307.3	9,949.3	80.8	79.3	82.4
54	IMPERIAL	2,701.7	2,176.0	80.5	77.2	83.9
55	TULARE	7,202.0	5,771.7	80.1	78.1	82.2
56	SAN BERNARDINO	28,334.0	22,523.7	79.5	78.5	80.5
57	YUBA	1,058.0	830.7	78.5	73.2	83.9
	<b>HEALTHY PEOPLE 2010 NATIONAL OBJECTIVE (16-19a)</b>			<b>75.0</b>		
58	KINGS	1,852.0	1,343.0	72.5	68.6	76.4

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

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

Source: California Department of Public Health: Genetic Disease Branch; Maternal, Child and Adolescent Health/Office of Family Planning Branch.

## PERSONS UNDER 18 BELOW POVERTY, 2004



The percentage of persons under age 18 who were below poverty in California was 18.3 per 100 population under age 18. This percentage was based on the 2000 Census projected to year 2004 population.

All 58 counties had “reliable” percentages of persons less than 18 years of age below poverty. The percents ranged from 30.6 in Tulare County to 7.3 in Placer County, a difference in percentages by a factor of 4.2 to 1.

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

**TABLE 29  
PERSONS UNDER 18 BELOW POVERTY  
RANKED BY PERCENTAGE OF CENSUS POPULATION UNDER 18 BELOW POVERTY  
CALIFORNIA COUNTIES, 2004**

RANK ORDER	COUNTY	UNDER 18			95% CONFIDENCE LIMITS	
		2004 POPULATION	IN POVERTY		LOWER	UPPER
			NUMBER	PERCENT		
<b>HEALTHY PEOPLE 2010 NATIONAL OBJECTIVE: NONE ESTABLISHED</b>						
1	PLACER	78,722	5,715	7.3	7.1	7.4
2	MARIN	52,487	4,223	8.0	7.8	8.3
3	SAN MATEO	163,465	13,704	8.4	8.2	8.5
4	EL DORADO	41,521	3,740	9.0	8.7	9.3
5	SANTA CLARA	444,572	44,747	10.1	10.0	10.2
6	NAPA	32,761	3,306	10.1	9.7	10.4
7	SONOMA	115,969	11,998	10.3	10.2	10.5
8	MONO	2,952	312	10.6	9.4	11.7
9	NEVADA	20,649	2,228	10.8	10.3	11.2
10	CONTRA COSTA	258,496	27,907	10.8	10.7	10.9
11	SOLANO	112,418	13,201	11.7	11.5	11.9
12	SAN BENITO	17,531	2,078	11.9	11.3	12.4
13	AMADOR	6,886	833	12.1	11.3	12.9
14	SAN LUIS OBISPO	54,187	6,560	12.1	11.8	12.4
15	YOLO	46,145	5,907	12.8	12.5	13.1
16	VENTURA	217,036	28,303	13.0	12.9	13.2
17	SIERRA	696	92	13.2	10.5	15.9
18	CALAVERAS	8,708	1,203	13.8	13.0	14.6
19	SAN DIEGO	798,461	111,422	14.0	13.9	14.0
20	ORANGE	795,924	113,395	14.2	14.2	14.3
21	PLUMAS	4,268	612	14.3	13.2	15.5
22	SANTA CRUZ	58,481	8,446	14.4	14.1	14.8
23	INYO	4,221	613	14.5	13.4	15.7
24	ALAMEDA	364,590	54,176	14.9	14.7	15.0
25	LASSEN	7,164	1,143	16.0	15.0	16.9
26	MARIPOSA	3,362	547	16.3	14.9	17.6
27	SAN FRANCISCO	112,721	18,458	16.4	16.1	16.6
28	COLUSA	6,169	1,015	16.5	15.4	17.5
29	SANTA BARBARA	103,536	17,061	16.5	16.2	16.7
30	SUTTER	25,802	4,258	16.5	16.0	17.0
31	TUOLUMNE	10,465	1,729	16.5	15.7	17.3
32	RIVERSIDE	544,551	92,584	17.0	16.9	17.1
33	STANISLAUS	160,124	28,249	17.6	17.4	17.8
34	MONTEREY	121,854	21,599	17.7	17.5	18.0
35	SAN JOAQUIN	209,183	37,197	17.8	17.6	18.0
36	ALPINE	247	44	17.8	12.6	23.1
	<b>CALIFORNIA</b>	<b>9,888,854</b>	<b>1,809,423</b>	<b>18.3</b>	<b>18.3</b>	<b>18.3</b>
37	SACRAMENTO	374,720	70,080	18.7	18.6	18.8
38	SHASTA	43,306	8,425	19.5	19.0	19.9
39	HUMBOLDT	28,846	5,759	20.0	19.4	20.5
40	TRINITY	2,846	578	20.3	18.7	22.0
41	BUTTE	48,449	10,018	20.7	20.3	21.1
42	GLENN	8,006	1,677	20.9	19.9	21.9
43	MENDOCINO	21,296	4,493	21.1	20.5	21.7
44	KINGS	41,264	8,737	21.2	20.7	21.6
45	MODOC	2,258	479	21.2	19.3	23.1
46	SAN BERNARDINO	592,185	126,952	21.4	21.3	21.6
47	TEHAMA	15,092	3,343	22.2	21.4	22.9
48	YUBA	20,088	4,469	22.2	21.6	22.9
49	LOS ANGELES	2,864,682	652,752	22.8	22.7	22.8
50	SISKIYOU	9,846	2,258	22.9	22.0	23.9
51	DEL NORTE	6,476	1,552	24.0	22.8	25.2
52	MERCED	76,416	18,390	24.1	23.7	24.4
53	LAKE	13,471	3,365	25.0	24.1	25.8
54	MADERA	40,240	10,096	25.1	24.6	25.6
55	KERN	230,059	57,827	25.1	24.9	25.3
56	IMPERIAL	46,135	12,335	26.7	26.3	27.2
57	FRESNO	266,572	77,352	29.0	28.8	29.2
58	TULARE	130,277	39,881	30.6	30.3	30.9

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. Total persons under 18 below poverty may not add due to rounding. Percentages are based on the population under 18 years of age for which the poverty status was determined and excludes persons of unknown poverty status.  
Source: U.S. Census Bureau, Small Area Income and Poverty Estimates: <http://www.census.gov/hhes/www/saie/>  
California Department of Finance: 2004 Population Estimates with Age, Sex, and Race/Ethnic Detail, July 2007.

**TABLE 30**  
**A COMPARISON OF THREE-YEAR AVERAGE RATES AND PERCENTAGES**  
**AMONG SELECTED HEALTH STATUS INDICATORS**  
**CALIFORNIA COUNTIES, 2000-2005**

COUNTY	AGE-ADJUSTED DEATH RATES		AGE-ADJUSTED DEATH RATES		AGE-ADJUSTED DEATH RATES	
	ALL CANCERS (THREE-YEAR AVERAGES) <sup>1,2</sup>		COLORECTAL (COLON) CANCER (THREE-YEAR AVERAGES) <sup>1,2</sup>		LUNG CANCER (THREE-YEAR AVERAGES) <sup>1,2</sup>	
	2000-2002	2003-2005	2000-2002	2003-2005	2000-2002	2003-2005
<b>CALIFORNIA</b>	<b>177.0</b>	<b>165.1</b>	<b>17.4</b>	<b>16.0</b>	<b>45.9</b>	<b>41.5</b>
ALAMEDA	181.8	164.0	18.4	16.6	48.9	41.4
ALPINE	144.1 *	111.5 *	-	-	87.0 *	49.2 *
AMADOR	189.0	183.2	15.4 *	17.6 *	55.9	46.3
BUTTE	202.3	182.3	20.7	16.4	61.6	53.4
CALAVERAS	158.3	139.4	15.5 *	13.8 *	50.3	43.8
COLUSA	203.3	150.1	30.7 *	10.7 *	44.1 *	54.0 *
CONTRA COSTA	181.6	166.9	18.4	16.1	46.2	42.9
DEL NORTE	219.0	224.4	18.7 *	17.9 *	68.9	71.2
EL DORADO	185.6	166.5	15.9	16.2	51.0	42.6
FRESNO	177.4	168.3	16.7	15.6	44.0	44.8
GLENN	214.8	159.5	20.7 *	17.3 *	75.9	36.0 *
HUMBOLDT	231.1	204.3	19.2	19.8	63.1	56.3
IMPERIAL	169.2	155.9	15.5 *	15.9	41.2	37.9
INYO	174.4	185.0	13.7 *	17.9 *	52.5 *	43.1 *
KERN	195.3	198.8	21.0	19.5	58.0	53.1
KINGS	172.4	187.3	14.0 *	19.3 *	45.9	50.2
LAKE	212.8	226.0	16.4 *	19.0 *	72.2	75.0
LASSEN	174.0	176.7	6.4 *	21.3 *	54.4 *	37.7 *
LOS ANGELES	168.0	154.7	17.3	16.2	39.9	35.4
MADERA	170.2	156.9	16.3 *	15.1 *	47.1	39.9
MARIN	160.5	154.7	14.7	12.5	43.7	35.8
MARIPOSA	196.3	160.1	23.3 *	18.7 *	53.3 *	49.0 *
MENDOCINO	203.3	190.1	19.6 *	18.8 *	58.5	45.1
MERCED	180.8	172.4	19.7	16.2	45.0	45.9
MODOC	127.3 *	173.5	9.7 *	19.0 *	29.3 *	59.2 *
MONO	145.5 *	76.8 *	19.5 *	9.1 *	33.2 *	20.2 *
MONTEREY	161.9	148.1	15.3	12.6	43.1	37.3
NAPA	193.1	197.6	20.9	20.0	51.2	51.9
NEVADA	187.2	173.1	18.2	18.3	46.8	42.4
ORANGE	167.2	153.5	15.5	14.7	41.9	36.7
PLACER	187.1	171.8	16.4	14.1	52.2	45.4
PLUMAS	209.6	208.6	14.5 *	20.8 *	68.3	48.3 *
RIVERSIDE	184.7	183.1	19.5	18.0	50.4	49.9
SACRAMENTO	195.2	181.9	18.3	15.4	54.1	50.2
SAN BENITO	158.1	132.3	15.6 *	10.7 *	40.4 *	26.8 *
SAN BERNARDINO	196.8	185.2	20.5	19.1	53.1	48.2
SAN DIEGO	181.8	170.5	17.0	15.5	47.5	42.6
SAN FRANCISCO	173.7	165.6	17.4	16.5	42.0	40.8
SAN JOAQUIN	198.8	183.8	17.2	15.6	58.6	53.0
SAN LUIS OBISPO	169.0	158.8	18.1	14.9	46.9	44.4
SAN MATEO	170.7	160.3	17.4	15.0	45.0	37.4
SANTA BARBARA	163.4	144.2	14.4	11.9	40.2	34.2
SANTA CLARA	149.7	139.2	14.7	11.9	35.0	32.6
SANTA CRUZ	161.9	171.7	13.8	14.9	41.5	45.6
SHASTA	202.2	204.0	18.2	20.2	65.3	65.3
SIERRA	179.5 *	180.8 *	12.4 *	12.1 *	42.7 *	56.6 *
SISKIYOU	188.2	200.9	12.4 *	16.6 *	55.9	61.0
SOLANO	193.3	182.8	18.3	18.4	55.5	48.0
SONOMA	189.4	180.9	19.0	19.6	50.2	48.2
STANISLAUS	195.8	186.2	20.7	16.6	56.4	53.6
SUTTER	191.2	170.8	16.5 *	11.2 *	54.3	51.3
TEHAMA	224.4	193.9	23.9 *	21.6 *	81.2	59.1
TRINITY	167.4	185.3	13.0 *	15.7 *	63.7 *	61.5 *
TULARE	178.8	174.9	16.8	16.0	47.5	47.2
TUOLUMNE	202.3	159.6	17.2 *	12.7 *	54.3	42.0
VENTURA	174.8	155.1	16.5	15.7	44.4	39.1
YOLO	190.4	178.9	17.9	16.4	53.0	50.2
YUBA	242.0	224.6	23.7 *	20.8 *	83.0	64.0

**TABLE 30 (continued)**  
**A COMPARISON OF THREE-YEAR AVERAGE RATES AND PERCENTAGES**  
**AMONG SELECTED HEALTH STATUS INDICATORS**  
**CALIFORNIA COUNTIES, 2000-2005**

COUNTY	AGE-ADJUSTED DEATH RATES		AGE-ADJUSTED DEATH RATES		AGE-ADJUSTED DEATH RATES	
	FEMALE		PROSTATE CANCER		DIABETES	
	BREAST CANCER (THREE-YEAR AVERAGES) <sup>1,2</sup>		(THREE-YEAR AVERAGES) <sup>1,2</sup>		(THREE-YEAR AVERAGES) <sup>1,2,3</sup>	
	2000-2002	2003-2005	2000-2002	2003-2005	2000-2002	2003-2005
<b>CALIFORNIA</b>	<b>24.5</b>	<b>22.7</b>	<b>26.0</b>	<b>23.8</b>	<b>21.5</b>	<b>22.3</b>
ALAMEDA	25.5	22.9	29.3	25.7	22.0	21.9
ALPINE	-	74.7 *	87.9 *	-	-	55.6 *
AMADOR	22.3 *	31.1 *	27.8 *	21.1 *	12.4 *	11.8 *
BUTTE	24.9	16.6	28.1	24.7	19.0	18.4
CALAVERAS	18.7 *	18.9 *	31.7 *	23.2 *	9.4 *	10.0 *
COLUSA	14.7 *	10.4 *	37.9 *	26.8 *	11.6 *	22.4 *
CONTRA COSTA	28.1	23.7	29.2	22.1	17.9	19.9
DEL NORTE	9.2 *	14.4 *	40.3 *	33.9 *	12.4 *	31.0 *
EL DORADO	23.7	22.9	26.1 *	26.3 *	14.4	12.0
FRESNO	24.3	21.8	26.7	25.6	28.1	31.9
GLENN	31.3 *	8.3 *	33.5 *	19.2 *	15.3 *	36.6 *
HUMBOLDT	37.5	21.7 *	37.7	28.6 *	29.7	30.0
IMPERIAL	22.4 *	21.3 *	27.8 *	24.9 *	28.1	33.5
INYO	36.5 *	12.6 *	19.9 *	32.9 *	11.0 *	22.4 *
KERN	26.4	25.9	24.0	30.0	29.3	34.4
KINGS	20.7 *	27.0 *	23.2 *	19.5 *	54.8	54.9
LAKE	20.4 *	31.6 *	29.5 *	29.4 *	19.9 *	13.8 *
LASSEN	17.2 *	27.4 *	21.0 *	38.1 *	16.8 *	18.0 *
LOS ANGELES	23.2	22.6	24.8	22.1	24.8	25.4
MADERA	18.4 *	18.4 *	24.2 *	23.7 *	30.4	24.5
MARIN	26.8	25.7	23.0	23.3	10.9	9.8
MARIPOSA	33.8 *	26.7 *	27.7 *	14.1 *	9.6 *	16.0 *
MENDOCINO	21.8 *	28.2 *	18.4 *	23.9 *	19.9	19.7
MERCED	30.1	22.0	23.5 *	23.9 *	34.6	36.6
MODOC	12.3 *	28.9 *	16.1 *	29.0 *	17.3 *	17.5 *
MONO	24.3 *	13.3 *	15.0 *	12.4 *	20.9 *	5.8 *
MONTEREY	24.0	18.8	21.4	20.5	21.0	17.5
NAPA	24.4	22.5 *	31.6	27.6	19.1	20.8
NEVADA	22.6 *	23.2 *	32.4 *	20.1 *	12.7 *	13.7 *
ORANGE	22.5	20.4	24.6	23.4	17.3	17.4
PLACER	23.5	24.7	28.3	25.3	14.0	15.2
PLUMAS	33.3 *	27.3 *	22.8 *	28.3 *	9.1 *	19.5 *
RIVERSIDE	27.5	25.1	26.9	27.4	18.3	19.5
SACRAMENTO	26.5	24.6	29.1	23.6	20.6	21.1
SAN BENITO	17.5 *	19.9 *	21.7 *	12.7 *	13.7 *	13.0 *
SAN BERNARDINO	25.2	26.2	31.2	29.2	30.2	31.0
SAN DIEGO	27.8	23.2	28.2	26.9	18.8	20.0
SAN FRANCISCO	21.7	20.8	20.1	18.9	15.3	15.0
SAN JOAQUIN	26.9	24.8	26.9	26.1	29.8	32.0
SAN LUIS OBISPO	20.9	20.9	23.4	21.1	15.2	15.9
SAN MATEO	23.2	23.4	24.8	21.4	13.6	13.2
SANTA BARBARA	20.9	19.3	22.2	22.1	17.4	17.7
SANTA CLARA	21.1	18.6	20.7	19.6	17.1	18.9
SANTA CRUZ	21.4	27.1	26.4	29.5	17.4	15.5
SHASTA	24.9	25.2	27.4	20.2 *	20.0	15.2
SIERRA	21.6 *	34.6 *	25.6 *	10.1 *	17.1 *	18.0 *
SISKIYOU	24.1 *	21.0 *	31.1 *	26.3 *	19.4 *	24.2 *
SOLANO	25.9	21.5	31.0	24.8	23.1	27.1
SONOMA	26.9	20.1	29.5	27.8	16.9	19.2
STANISLAUS	24.9	25.3	25.6	24.7	27.1	27.4
SUTTER	29.4 *	24.2 *	29.2 *	34.4 *	18.6 *	26.8
TEHAMA	25.9 *	24.2 *	35.7 *	23.6 *	24.2 *	24.4 *
TRINITY	21.2 *	19.2 *	-	19.2 *	18.7 *	26.6 *
TULARE	22.4	23.5	24.7	22.6	32.5	35.3
TUOLUMNE	25.2 *	20.9 *	36.5 *	13.9 *	11.0 *	13.9 *
VENTURA	26.2	22.4	25.4	21.0	23.2	20.1
YOLO	21.5 *	22.0 *	28.1 *	27.1 *	23.1	24.1
YUBA	25.9 *	21.7 *	36.2 *	28.0 *	28.6 *	21.2 *

**TABLE 30 (continued)**  
**A COMPARISON OF THREE-YEAR AVERAGE RATES AND PERCENTAGES**  
**AMONG SELECTED HEALTH STATUS INDICATORS**  
**CALIFORNIA COUNTIES, 2000-2005**

COUNTY	AGE-ADJUSTED DEATH RATES		AGE-ADJUSTED DEATH RATES		AGE-ADJUSTED DEATH RATES	
	ALZHEIMER'S DISEASE (THREE-YEAR AVERAGES) <sup>1,2</sup>		CORONARY HEART DISEASE (THREE-YEAR AVERAGES) <sup>1,2</sup>		CEREBROVASCULAR DISEASE (STROKE) (THREE-YEAR AVERAGES) <sup>1,2</sup>	
	2000-2002	2003-2005	2000-2002	2003-2005	2000-2002	2003-2005
<b>CALIFORNIA</b>	<b>16.8</b>	<b>22.1</b>	<b>191.4</b>	<b>163.1</b>	<b>60.5</b>	<b>51.7</b>
ALAMEDA	16.3	15.8	173.1	138.5	65.8	52.6
ALPINE	-	-	115.6 *	92.2 *	-	155.7 *
AMADOR	13.5 *	19.3 *	183.0	150.7	58.3	59.0
BUTTE	13.6	29.6	179.7	152.4	67.5	61.1
CALAVERAS	11.5 *	14.0 *	158.9	126.4	54.4	44.7
COLUSA	5.8 *	45.2 *	187.3	124.2	38.7 *	49.3 *
CONTRA COSTA	16.5	23.9	162.3	124.4	67.4	55.4
DEL NORTE	8.7 *	18.2 *	165.3	134.0	54.1 *	40.8 *
EL DORADO	20.8	22.0	153.2	127.7	46.1	44.7
FRESNO	16.0	23.4	204.2	173.8	67.6	67.3
GLENN	15.0 *	23.4 *	156.6	137.5	57.6 *	43.4 *
HUMBOLDT	23.2	42.0	157.4	156.3	66.9	55.8
IMPERIAL	9.8 *	9.5 *	172.2	142.5	57.7	50.1
INYO	4.8 *	4.3 *	186.0	196.4	58.4 *	32.7 *
KERN	16.7	31.4	273.4	267.9	67.4	60.2
KINGS	13.7 *	17.6 *	195.6	169.1	61.2	59.4
LAKE	9.6 *	14.8 *	194.9	176.4	72.7	67.4
LASSEN	20.6 *	11.3 *	192.1	151.9	52.8 *	42.1 *
LOS ANGELES	11.9	16.3	214.9	179.5	55.1	46.8
MADERA	27.9	35.5	212.2	176.1	55.8	47.4
MARIN	11.6	16.8	130.0	100.5	59.8	43.0
MARIPOSA	6.2 *	12.2 *	155.4	132.8	45.1 *	48.8 *
MENDOCINO	10.6 *	12.3 *	150.3	144.9	69.1	57.5
MERCED	15.4	17.6	201.7	184.2	69.2	74.8
MODOC	26.9 *	21.9 *	147.8	158.0	63.3 *	58.1 *
MONO	12.5 *	12.9 *	118.3 *	77.2 *	46.0 *	25.8 *
MONTEREY	13.5	13.6	147.7	117.1	59.9	47.2
NAPA	29.1	39.1	162.5	124.6	76.1	62.0
NEVADA	16.1	16.2	157.5	129.0	73.6	68.6
ORANGE	16.2	22.2	186.7	158.2	57.1	50.7
PLACER	23.5	24.1	158.1	129.3	58.3	61.0
PLUMAS	10.5 *	14.9 *	121.8	106.4	42.8 *	46.6 *
RIVERSIDE	19.1	28.6	232.2	203.1	60.6	58.2
SACRAMENTO	16.4	24.5	200.8	178.1	72.2	66.2
SAN BENITO	10.7 *	8.9 *	135.8	123.2	59.6	49.8
SAN BERNARDINO	18.7	26.1	247.0	224.1	61.2	55.3
SAN DIEGO	32.6	38.6	174.7	145.1	60.9	50.4
SAN FRANCISCO	14.9	13.3	168.1	134.4	63.1	50.7
SAN JOAQUIN	15.3	25.0	215.0	220.4	79.0	63.0
SAN LUIS OBISPO	20.4	23.4	147.1	121.6	54.1	47.3
SAN MATEO	17.5	18.9	129.7	114.9	60.2	47.7
SANTA BARBARA	17.0	22.2	154.4	140.6	57.4	47.4
SANTA CLARA	14.9	20.8	148.0	113.1	54.8	40.4
SANTA CRUZ	12.7	17.4	144.8	134.7	49.8	48.8
SHASTA	15.7	23.2	181.6	160.1	61.8	54.1
SIERRA	11.9 *	4.4 *	76.5 *	94.3 *	23.9 *	14.3 *
SISKIYOU	17.4 *	15.1 *	151.2	129.0	55.0	49.1
SOLANO	24.8	38.3	168.3	142.9	73.9	59.1
SONOMA	19.8	27.5	151.7	133.7	66.2	63.8
STANISLAUS	19.6	24.0	256.6	225.3	65.5	54.2
SUTTER	8.4 *	14.3 *	212.0	191.1	69.4	59.3
TEHAMA	11.2 *	27.8	180.1	161.6	63.4	64.1
TRINITY	13.9 *	10.6 *	138.4	84.2 *	64.2 *	32.0 *
TULARE	7.1	10.0	195.7	189.8	70.9	56.5
TUOLUMNE	12.3 *	15.4 *	171.9	130.2	48.9	48.3
VENTURA	15.4	20.0	160.0	152.3	58.2	42.6
YOLO	25.9	24.1	153.2	133.2	67.5	62.4
YUBA	6.7 *	11.7 *	231.3	217.9	83.6	61.9

**TABLE 30 (continued)**  
**A COMPARISON OF THREE-YEAR AVERAGE RATES AND PERCENTAGES**  
**AMONG SELECTED HEALTH STATUS INDICATORS**  
**CALIFORNIA COUNTIES, 2000-2005**

COUNTY	AGE-ADJUSTED DEATH RATES		AGE-ADJUSTED DEATH RATES		AGE-ADJUSTED DEATH RATES	
	INFLUENZA/PNEUMONIA (THREE-YEAR AVERAGES) <sup>1,2</sup>		CHRONIC LOWER RESPIRATORY DISEASE (THREE-YEAR AVERAGES) <sup>1,2</sup>		CHRONIC LIVER DISEASE AND CIRRHOSIS (THREE-YEAR AVERAGES) <sup>1,2</sup>	
	2000-2002	2003-2005	2000-2002	2003-2005	2000-2002	2003-2005
<b>CALIFORNIA</b>	<b>27.9</b>	<b>23.8</b>	<b>43.3</b>	<b>40.7</b>	<b>11.7</b>	<b>10.8</b>
ALAMEDA	24.1	20.2	34.5	33.3	10.4	9.3
ALPINE	-	-	24.7 *	62.8 *	22.9 *	17.9 *
AMADOR	29.3 *	22.0 *	39.4	35.1	9.9 *	14.8 *
BUTTE	24.4	22.3	55.6	57.4	17.8	14.8
CALAVERAS	18.8 *	17.6 *	40.6	46.1	9.5 *	9.9 *
COLUSA	33.1 *	29.1 *	52.1 *	60.9 *	13.3 *	9.2 *
CONTRA COSTA	23.4	23.2	41.6	36.1	9.8	8.7
DEL NORTE	41.6 *	31.4 *	65.4 *	66.9	17.5 *	16.2 *
EL DORADO	22.6	17.3	47.5	47.2	9.0 *	12.2
FRESNO	27.6	28.4	46.8	43.9	13.8	14.8
GLENN	18.8 *	29.7 *	55.7 *	64.7	12.9 *	15.3 *
HUMBOLDT	28.0	26.7	70.6	65.9	17.5	15.6
IMPERIAL	11.4 *	15.7 *	35.8	31.3	21.7	16.6
INYO	24.4 *	23.9 *	55.2 *	53.9 *	22.7 *	25.6 *
KERN	35.1	33.2	65.3	76.1	17.8	18.5
KINGS	16.0 *	15.6 *	55.5	65.8	16.1 *	14.8 *
LAKE	30.3	24.4	66.7	78.3	21.9 *	19.7 *
LASSEN	18.2 *	27.5 *	44.7 *	65.0 *	7.7 *	11.2 *
LOS ANGELES	32.1	27.3	36.8	33.8	12.5	11.1
MADERA	16.4 *	21.0	42.9	45.8	16.7	11.8 *
MARIN	26.2	16.6	32.5	26.5	7.9	6.9
MARIPOSA	15.6 *	14.7 *	45.8 *	40.5 *	15.6 *	11.8 *
MENDOCINO	26.4	19.1	58.5	56.7	11.6 *	12.5 *
MERCED	20.3	21.2	55.9	48.9	14.4	11.8
MODOC	20.5 *	15.1 *	59.3 *	77.3 *	20.8 *	2.1 *
MONO	9.9 *	20.1 *	27.5 *	16.7 *	15.8 *	4.1 *
MONTEREY	18.7	14.3	40.7	34.2	11.4	10.1
NAPA	33.4	25.5	46.4	41.4	14.0	12.9 *
NEVADA	20.9	20.2	49.3	46.6	11.3 *	9.9 *
ORANGE	27.2	23.6	39.3	34.8	9.0	8.8
PLACER	22.9	18.6	44.9	45.2	10.1	9.3
PLUMAS	22.9 *	26.7 *	60.1 *	54.6 *	9.9 *	15.5 *
RIVERSIDE	23.4	20.4	58.1	56.5	12.5	12.9
SACRAMENTO	31.9	27.9	50.4	48.9	10.8	11.2
SAN BENITO	24.1 *	24.7 *	39.8 *	39.8 *	14.3 *	10.7 *
SAN BERNARDINO	29.0	27.4	65.3	65.6	14.5	12.9
SAN DIEGO	26.8	17.9	43.0	40.2	10.6	9.2
SAN FRANCISCO	32.6	26.6	33.6	27.3	10.5	8.8
SAN JOAQUIN	23.3	22.9	57.4	52.8	13.9	13.7
SAN LUIS OBISPO	14.9	14.5	42.7	39.0	8.3	8.9
SAN MATEO	27.3	25.4	34.0	30.3	8.1	8.8
SANTA BARBARA	21.7	19.2	35.3	34.9	10.0	9.9
SANTA CLARA	25.7	20.6	32.0	29.1	9.3	7.9
SANTA CRUZ	21.0	20.5	45.0	37.2	11.1	11.0
SHASTA	27.6	22.9	68.0	69.2	13.3	16.6
SIERRA	17.0 *	11.0 *	13.8 *	30.3 *	16.1 *	18.7 *
SISKIYOU	22.5 *	27.2 *	49.7	58.4	11.0 *	12.1 *
SOLANO	29.8	24.7	44.3	52.1	12.1	12.0
SONOMA	24.1	18.0	43.1	39.7	10.0	11.5
STANISLAUS	35.3	30.0	52.2	49.1	14.6	12.8
SUTTER	30.4	33.0	61.2	66.5	11.0 *	9.7 *
TEHAMA	28.1 *	21.0 *	69.8	59.1	14.6 *	13.8 *
TRINITY	24.4 *	24.7 *	63.0 *	70.0 *	15.9 *	23.5 *
TULARE	32.1	22.7	53.0	48.6	16.4	14.5
TUOLUMNE	19.0 *	19.7 *	41.2	39.0	12.1 *	12.8 *
VENTURA	22.3	21.6	41.9	37.6	10.2	9.6
YOLO	43.1	40.4	58.5	54.1	13.7	9.8 *
YUBA	34.5 *	27.9 *	86.7	84.1	16.9 *	14.9 *

**TABLE 30 (continued)**  
**A COMPARISON OF THREE-YEAR AVERAGE RATES AND PERCENTAGES**  
**AMONG SELECTED HEALTH STATUS INDICATORS**  
**CALIFORNIA COUNTIES, 2000-2005**

COUNTY	AGE-ADJUSTED DEATH RATES		AGE-ADJUSTED DEATH RATES		AGE-ADJUSTED DEATH RATES	
	UNINTENTIONAL INJURIES		MOTOR VEHICLE CRASHES		SUICIDE	
	(THREE-YEAR AVERAGES) <sup>1,2</sup>		(THREE-YEAR AVERAGES) <sup>1,2</sup>		(THREE-YEAR AVERAGES) <sup>1,2</sup>	
	2000-2002	2003-2005	2000-2002	2003-2005	2000-2002	2003-2005
<b>CALIFORNIA</b>	<b>27.9</b>	<b>30.0</b>	<b>10.8</b>	<b>12.2</b>	<b>9.5</b>	<b>9.3</b>
ALAMEDA	24.1	26.9	7.8	8.7	8.1	7.7
ALPINE	-	32.3 *	-	32.3 *	24.7 *	64.1 *
AMADOR	40.6 *	54.6	17.8 *	27.3 *	15.5 *	19.0 *
BUTTE	44.8	51.4	15.8	18.5	16.2	17.1
CALAVERAS	56.4	48.0	30.4 *	34.5 *	13.7 *	22.0 *
COLUSA	34.2 *	37.8 *	13.9 *	22.7 *	16.9 *	1.6 *
CONTRA COSTA	23.1	28.1	7.8	10.1	8.8	9.6
DEL NORTE	74.4	51.1 *	23.6 *	25.2 *	22.3 *	15.3 *
EL DORADO	35.1	37.0	12.2 *	15.3	13.8	14.0
FRESNO	41.0	44.0	19.8	20.9	8.5	9.4
GLENN	57.5 *	42.5 *	30.1 *	22.4 *	23.4 *	13.3 *
HUMBOLDT	60.5	72.0	16.4	22.5	20.1	20.2
IMPERIAL	38.1	39.0	16.3	19.5	6.3 *	6.7 *
INYO	39.5 *	56.3 *	13.9 *	22.5 *	19.0 *	20.5 *
KERN	44.6	46.7	18.5	21.3	11.3	11.0
KINGS	41.2	39.4	22.2	20.5	8.3 *	9.4 *
LAKE	64.9	71.9	19.3 *	30.1 *	21.2 *	16.9 *
LASSEN	35.6 *	51.3 *	15.9 *	25.1 *	21.4 *	16.0 *
LOS ANGELES	22.6	23.5	8.8	9.7	8.0	7.2
MADERA	45.6	49.5	23.7	25.1	9.7 *	10.1 *
MARIN	22.1	20.3	6.0 *	6.5 *	12.0	11.6
MARIPOSA	48.7 *	70.0 *	27.1 *	29.7 *	7.2 *	23.1 *
MENDOCINO	54.0	55.0	18.5 *	22.0	15.7 *	18.8 *
MERCED	48.8	49.9	24.4	25.6	9.8 *	8.4 *
MODOC	73.3 *	75.6 *	26.9 *	36.6 *	7.0 *	22.4 *
MONO	49.0 *	42.8 *	28.5 *	21.7 *	9.9 *	14.9 *
MONTEREY	30.8	34.0	12.2	13.8	7.1	9.4
NAPA	29.0	35.0	11.9 *	14.8	7.8 *	9.6 *
NEVADA	42.0	48.7	13.8 *	18.8 *	17.5 *	13.8 *
ORANGE	21.7	23.0	7.5	8.4	8.5	8.3
PLACER	28.1	34.9	10.0	13.1	12.2	11.5
PLUMAS	40.7 *	44.5 *	24.5 *	16.4 *	19.0 *	23.6 *
RIVERSIDE	33.2	36.9	15.5	17.4	11.0	10.1
SACRAMENTO	29.0	35.9	11.6	12.8	11.1	12.4
SAN BENITO	36.0 *	35.1 *	18.2 *	18.1 *	6.7 *	8.8 *
SAN BERNARDINO	29.1	30.6	14.8	17.5	10.6	10.6
SAN DIEGO	26.2	28.3	9.2	10.6	11.3	10.5
SAN FRANCISCO	31.3	26.7	7.0	5.3	10.8	10.7
SAN JOAQUIN	40.6	43.8	18.5	14.7	10.6	7.9
SAN LUIS OBISPO	34.0	35.3	11.7	15.1	13.5	11.3
SAN MATEO	19.6	21.0	6.1	7.0	6.5	9.1
SANTA BARBARA	29.8	30.4	7.6	12.4	11.6	8.7
SANTA CLARA	19.9	19.9	7.7	7.3	7.3	7.5
SANTA CRUZ	25.3	29.3	9.0	10.7	12.3	12.8
SHASTA	54.7	58.6	19.4	17.9	20.1	16.7
SIERRA	63.6 *	104.5 *	13.9 *	86.1 *	15.8 *	7.0 *
SISKIYOU	51.7	61.6	17.8 *	24.6 *	20.0 *	22.1 *
SOLANO	25.9	32.0	9.6	13.3	10.4	9.3
SONOMA	29.2	35.4	9.4	12.9	10.5	12.3
STANISLAUS	47.8	49.6	19.1	18.7	9.6	11.7
SUTTER	48.4	44.7	20.4 *	27.1	15.0 *	10.8 *
TEHAMA	47.1	53.7	20.0 *	27.6 *	17.8 *	12.3 *
TRINITY	63.4 *	91.2 *	34.0 *	56.2 *	22.2 *	48.5 *
TULARE	51.1	52.3	21.7	26.4	8.0	9.1
TUOLUMNE	48.4	72.2	19.4 *	34.2 *	15.4 *	22.2 *
VENTURA	27.4	29.7	9.8	10.5	9.3	9.6
YOLO	30.2	36.3	7.6 *	13.7	10.6 *	7.8 *
YUBA	49.9	57.8	21.6 *	24.1 *	15.0 *	19.5 *

**TABLE 30 (continued)**  
**A COMPARISON OF THREE-YEAR AVERAGE RATES AND PERCENTAGES**  
**AMONG SELECTED HEALTH STATUS INDICATORS**  
**CALIFORNIA COUNTIES, 2000-2005**

COUNTY	AGE-ADJUSTED DEATH RATES		AGE-ADJUSTED DEATH RATES		AGE-ADJUSTED DEATH RATES	
	HOMICIDE		FIREARM-RELATED DEATHS		DRUG-INDUCED DEATHS	
	(THREE-YEAR AVERAGES) <sup>1,2</sup>		(THREE-YEAR AVERAGES) <sup>1,2</sup>		(THREE-YEAR AVERAGES) <sup>1,2</sup>	
	2000-2002	2003-2005	2000-2002	2003-2005	2000-2002	2003-2005
<b>CALIFORNIA</b>	<b>6.4</b>	<b>6.8</b>	<b>9.5</b>	<b>9.4</b>	<b>8.7</b>	<b>10.2</b>
ALAMEDA	8.1	8.3	10.0	9.5	8.8	9.8
ALPINE	-	22.2 *	24.7 *	64.1 *	-	-
AMADOR	1.6 *	0.9 *	14.3 *	11.6 *	8.0 *	19.5 *
BUTTE	4.6 *	3.3 *	11.4	10.4	14.1	20.0
CALAVERAS	4.1 *	3.9 *	15.4 *	17.4 *	13.0 *	13.9 *
COLUSA	9.1 *	-	18.8 *	2.9 *	3.8 *	10.6 *
CONTRA COSTA	6.5	8.7	9.4	11.1	7.4	9.2
DEL NORTE	5.2 *	4.2 *	13.2 *	11.2 *	34.4 *	19.7 *
EL DORADO	2.2 *	2.4 *	10.8 *	12.0	9.7 *	13.1
FRESNO	6.7	8.1	9.5	10.7	9.2	12.6
GLENN	1.2 *	-	20.6 *	13.1 *	6.9 *	11.0 *
HUMBOLDT	6.5 *	5.4 *	15.9	14.1 *	24.5	31.5
IMPERIAL	4.8 *	3.5 *	5.2 *	5.7 *	6.8 *	7.5 *
INYO	-	4.0 *	14.1 *	17.2 *	4.6 *	6.9 *
KERN	7.0	7.4	10.9	11.4	14.1	15.4
KINGS	3.7 *	3.6 *	4.8 *	5.9 *	7.4 *	8.0 *
LAKE	1.9 *	4.1 *	14.9 *	9.1 *	21.1 *	20.9 *
LASSEN	4.3 *	5.2 *	17.0 *	14.3 *	11.3 *	14.1 *
LOS ANGELES	10.8	10.6	12.5	11.9	7.7	8.2
MADERA	7.3 *	6.6 *	8.8 *	11.4 *	7.4 *	12.2 *
MARIN	1.9 *	1.9 *	4.9 *	5.1 *	8.8	10.8
MARIPOSA	-	-	4.3 *	12.7 *	5.6 *	20.6 *
MENDOCINO	5.8 *	6.7 *	10.3 *	13.1 *	15.4 *	15.3 *
MERCED	4.4 *	8.6	9.6 *	10.8	6.7 *	9.3 *
MODOC	-	-	4.0 *	17.4 *	17.6 *	17.6 *
MONO	2.0 *	-	7.1 *	7.6 *	2.0 *	4.5 *
MONTEREY	6.3	5.6	8.5	8.0	8.0	11.6
NAPA	1.5 *	3.0 *	5.5 *	6.3 *	8.8 *	6.7 *
NEVADA	3.8 *	1.2 *	11.5 *	6.6 *	12.7 *	12.1 *
ORANGE	2.6	2.6	5.5	5.4	7.2	8.1
PLACER	1.4 *	2.0 *	8.4	6.3	5.2 *	10.9
PLUMAS	-	4.3 *	9.4 *	15.6 *	8.1 *	15.3 *
RIVERSIDE	6.2	5.8	10.3	9.8	8.6	10.8
SACRAMENTO	5.8	7.2	9.5	10.2	8.7	15.7
SAN BENITO	4.7 *	2.0 *	6.6 *	2.9 *	4.6 *	9.5 *
SAN BERNARDINO	7.8	9.0	12.1	12.1	9.1	11.2
SAN DIEGO	3.2	4.1	7.2	7.4	9.2	10.4
SAN FRANCISCO	7.0	9.4	6.5	9.1	16.5	17.1
SAN JOAQUIN	8.2	6.7	10.8	10.7	12.3	14.5
SAN LUIS OBISPO	1.9 *	2.1 *	7.5	6.5 *	11.3	9.3
SAN MATEO	2.7 *	4.8	4.2	7.0	6.1	7.3
SANTA BARBARA	2.2 *	1.5 *	6.5	4.6	10.1	10.9
SANTA CLARA	2.2	2.8	4.0	4.0	4.2	5.6
SANTA CRUZ	3.0 *	2.8 *	8.0	5.7 *	10.5	10.6
SHASTA	4.0 *	4.2 *	14.2	13.1	17.7	24.7
SIERRA	-	-	15.8 *	7.0 *	6.9 *	14.0 *
SISKIYOU	4.8 *	7.3 *	14.7 *	18.9 *	14.9 *	15.1 *
SOLANO	5.5	6.6	9.6	8.6	7.1	8.6
SONOMA	3.0 *	2.8 *	7.1	7.4	10.2	12.0
STANISLAUS	4.9	6.4	7.3	9.6	15.5	19.1
SUTTER	5.7 *	5.9 *	15.6 *	11.4 *	6.5 *	6.7 *
TEHAMA	4.4 *	2.9 *	12.8 *	7.5 *	9.4 *	11.6 *
TRINITY	10.1 *	3.2 *	19.9 *	38.7 *	8.9 *	19.4 *
TULARE	5.9	7.6	9.6	13.0	9.5	11.5
TUOLUMNE	2.5 *	4.7 *	10.5 *	16.7 *	12.9 *	25.0 *
VENTURA	3.4	4.6	7.5	7.5	9.1	9.1
YOLO	2.8 *	2.2 *	7.4 *	5.2 *	9.0 *	6.8 *
YUBA	4.3 *	5.0 *	13.0 *	17.4 *	6.0 *	5.7 *

**TABLE 30 (continued)**  
**A COMPARISON OF THREE-YEAR AVERAGE RATES AND PERCENTAGES**  
**AMONG SELECTED HEALTH STATUS INDICATORS**  
**CALIFORNIA COUNTIES, 2000-2005**

COUNTY	MORBIDITY RATE		MORBIDITY RATE		MORBIDITY RATE	
	REPORTED INCIDENCE OF AIDS (AGED 13 AND OVER) (THREE-YEAR AVERAGES) <sup>4</sup>		REPORTED INCIDENCE OF TUBERCULOSIS (THREE-YEAR AVERAGES) <sup>4</sup>		REPORTED INCIDENCE OF CHLAMYDIA (THREE-YEAR AVERAGES) <sup>4</sup>	
	2000-2002	2003-2005	2000-2002	2003-2005	2000-2002	2003-2005
<b>CALIFORNIA</b>	<b>16.0</b>	<b>12.6</b>	<b>9.4</b>	<b>8.3</b>	<b>294.7</b>	<b>336.9</b>
ALAMEDA	18.6	14.8	15.0	10.9	337.5	352.1
ALPINE	-	-	-	-	52.5 *	76.7 *
AMADOR	6.4 *	2.0 *	-	-	59.4	89.8
BUTTE	5.4 *	5.7 *	1.6 *	2.0 *	178.8	301.5
CALAVERAS	3.7 *	1.7 *	0.8 *	-	60.7	79.9
COLUSA	-	-	5.2 *	1.6 *	161.8	122.6
CONTRA COSTA	10.4	9.4	8.6	6.7	224.2	267.1
DEL NORTE	8.6 *	6.7 *	1.2 *	1.1 *	109.2	96.0
EL DORADO	4.2 *	1.4 *	2.5 *	1.4 *	88.2	129.6
FRESNO	9.5	6.1	11.7	10.9	513.6	547.1
GLENN	10.9 *	2.9 *	1.2 *	3.6 *	155.8	205.1
HUMBOLDT	5.9 *	6.0 *	5.0 *	2.5 *	257.1	256.0
IMPERIAL	7.5 *	8.0 *	18.2	18.4	302.5	246.1
INYO	2.2 *	2.1 *	3.6 *	1.8 *	87.0 *	139.2
KERN	17.5	13.8	7.6	5.6	400.3	495.0
KINGS	7.0 *	6.7 *	6.0 *	3.5 *	361.8	424.4
LAKE	9.2 *	3.1 *	2.2 *	2.1 *	137.0	178.9
LASSEN	5.7 *	4.3 *	1.0 *	1.9 *	81.4	123.5
LOS ANGELES	22.7	16.7	11.5	9.8	364.0	402.6
MADERA	12.3 *	2.7 *	9.7 *	6.7 *	280.6	448.1
MARIN	18.8	9.3	5.1 *	5.3 *	116.7	162.6
MARIPOSA	-	-	3.8 *	-	72.8 *	92.3 *
MENDOCINO	8.2 *	4.4 *	4.9 *	3.3 *	193.5	219.7
MERCED	6.5 *	3.5 *	6.3 *	4.5 *	240.0	394.9
MODOC	4.1 *	-	6.9 *	-	90.1 *	78.6 *
MONO	6.0 *	2.8 *	-	-	90.3 *	68.0 *
MONTEREY	8.3	7.2	8.0	9.5	277.4	288.3
NAPA	4.1 *	3.7 *	3.1 *	4.0 *	91.8	131.1
NEVADA	3.7 *	1.2 *	0.7 *	1.4 *	91.3	116.1
ORANGE	9.3	7.5	8.6	7.8	182.3	224.2
PLACER	2.9 *	2.2 *	0.9 *	2.1 *	90.5	134.2
PLUMAS	3.7 *	5.3 *	1.6 *	-	53.9 *	72.9 *
RIVERSIDE	15.2	12.0	4.2	3.8	217.3	215.2
SACRAMENTO	11.0	8.1	9.3	11.2	361.4	448.9
SAN BENITO	3.9 *	1.5 *	6.6 *	2.3 *	155.4	218.7
SAN BERNARDINO	9.0	8.6	4.7	3.4	315.0	379.2
SAN DIEGO	19.1	16.6	11.0	10.3	322.0	355.5
SAN FRANCISCO	72.4	63.3	21.1	18.0	400.1	451.4
SAN JOAQUIN	11.3	9.9	9.9	10.2	360.1	403.4
SAN LUIS OBISPO	10.5	6.3 *	3.4 *	2.3 *	143.2	194.7
SAN MATEO	8.0	5.2	8.9	7.9	171.9	202.8
SANTA BARBARA	7.2	7.1	5.4	6.5	219.0	255.0
SANTA CLARA	8.8	7.0	13.7	12.0	241.3	295.5
SANTA CRUZ	7.8 *	6.2 *	2.2 *	3.6 *	211.9	223.5
SHASTA	2.9 *	4.3 *	2.6 *	3.4 *	241.1	331.1
SIERRA	-	-	-	-	90.0 *	17.9 *
SISKIYOU	4.4 *	0.8 *	0.7 *	0.7 *	152.7	211.1
SOLANO	18.0	12.8	7.2	8.9	290.0	344.8
SONOMA	11.2	12.4	2.9 *	3.2 *	134.0	141.7
STANISLAUS	6.4	5.9	4.1	3.1 *	258.1	357.2
SUTTER	1.6 *	2.4 *	6.6 *	2.3 *	192.1	205.6
TEHAMA	1.4 *	2.0 *	1.8 *	4.4 *	174.6	226.3
TRINITY	2.9 *	-	-	-	50.4 *	105.1 *
TULARE	3.7 *	5.1 *	4.5 *	4.3 *	389.7	441.5
TUOLUMNE	4.1 *	1.3 *	1.8 *	0.6 *	110.7	143.4
VENTURA	5.9	5.4	7.0	8.3	167.7	191.1
YOLO	6.3 *	4.3 *	3.4 *	4.6 *	175.4	232.8
YUBA	4.8 *	1.3 *	11.3 *	6.0 *	273.5	316.9

**TABLE 30 (continued)**  
**A COMPARISON OF THREE-YEAR AVERAGE RATES AND PERCENTAGES**  
**AMONG SELECTED HEALTH STATUS INDICATORS**  
**CALIFORNIA COUNTIES, 2000-2005**

COUNTY	MORBIDITY RATE		MORTALITY RATE		PERCENT	
	REPORTED INCIDENCE OF GONORRHEA (THREE-YEAR AVERAGES) <sup>4</sup>		INFANT MORTALITY, ALL RACE/ETHNIC GROUPS (THREE-YEAR AVERAGES) <sup>5</sup>		LOW BIRTHWEIGHT INFANTS (THREE-YEAR AVERAGES) <sup>6</sup>	
	2000-2002	2003-2005	1999-2001	2002-2004	2000-2002	2003-2005
<b>CALIFORNIA</b>	<b>66.6</b>	<b>82.3</b>	<b>5.5</b>	<b>5.4</b>	<b>6.3</b>	<b>6.7</b>
ALAMEDA	137.4	125.3	5.4	4.6	6.8	7.1
ALPINE	-	-	-	-	-	2.7 *
AMADOR	4.6 *	17.8 *	3.9 *	7.3 *	5.1 *	4.1 *
BUTTE	13.6	63.2	4.6 *	6.9 *	5.5	5.8
CALAVERAS	7.2 *	23.4 *	5.2 *	3.1 *	4.6 *	7.2
COLUSA	15.5 *	22.3 *	4.9 *	5.1 *	3.6 *	4.5 *
CONTRA COSTA	64.7	70.4	4.7	3.9	6.4	6.7
DEL NORTE	4.8 *	6.9 *	5.6 *	4.6 *	5.1 *	4.8 *
EL DORADO	6.2 *	12.2	4.2 *	4.6 *	5.9	6.2
FRESNO	104.6	136.3	6.3	7.4	6.6	7.0
GLENN	4.9 *	11.9 *	1.7 *	3.2 *	5.7	4.6
HUMBOLDT	21.7	30.1	5.6 *	7.3 *	5.4	6.2
IMPERIAL	29.1	31.7	5.1 *	5.0 *	5.1	5.9
INYO	3.6 *	19.4 *	5.6 *	10.2 *	5.0 *	7.9 *
KERN	108.6	132.0	7.2	6.3	6.5	7.0
KINGS	39.4	73.6	5.9 *	7.5 *	5.9	6.5
LAKE	3.9 *	19.0 *	4.0 *	6.5 *	5.9	6.5
LASSEN	5.9 *	25.3 *	7.6 *	5.5 *	5.9 *	5.8 *
LOS ANGELES	84.8	99.9	5.4	5.4	6.6	7.2
MADERA	30.1	92.8	6.1 *	4.7 *	6.0	6.4
MARIN	23.5	22.8	2.9 *	2.7 *	6.0	6.4
MARIPOSA	17.2 *	20.3 *	12.3 *	4.8 *	6.8 *	5.2 *
MENDOCINO	12.2 *	19.6 *	7.0 *	7.3 *	4.6	6.2
MERCED	28.2	86.4	4.9 *	6.3	6.1	6.4
MODOC	6.9 *	13.1 *	4.7 *	-	5.2 *	6.3 *
MONO	5.0 *	9.7 *	7.2 *	6.7 *	6.4 *	7.6 *
MONTEREY	22.0	46.5	5.2	5.7	5.7	6.2
NAPA	9.4 *	16.3	2.2 *	3.7 *	5.5	5.5
NEVADA	4.9 *	9.1 *	1.3 *	3.2 *	5.2	6.0
ORANGE	21.9	33.7	4.7	4.5	5.8	6.2
PLACER	9.1	20.5	5.5 *	4.7 *	5.7	5.6
PLUMAS	3.2 *	12.4 *	4.6 *	3.7 *	4.8 *	7.2 *
RIVERSIDE	37.1	41.8	6.0	6.1	6.0	6.4
SACRAMENTO	102.6	145.0	6.0	6.0	6.5	6.9
SAN BENITO	13.3 *	65.1	4.2 *	2.2 *	5.0	5.4
SAN BERNARDINO	72.8	101.3	7.4	7.1	6.7	7.1
SAN DIEGO	66.7	76.8	5.7	5.0	6.1	6.4
SAN FRANCISCO	268.2	269.4	4.0	4.4	6.8	6.9
SAN JOAQUIN	92.1	114.0	6.3	7.0	6.5	6.8
SAN LUIS OBISPO	10.2	18.1	4.4 *	4.3 *	5.5	6.3
SAN MATEO	29.7	33.0	4.5	3.8	6.1	6.8
SANTA BARBARA	17.3	21.4	5.0	4.3	6.0	6.6
SANTA CLARA	29.1	52.8	4.4	4.1	6.1	6.5
SANTA CRUZ	15.6	32.4	4.7 *	5.0 *	5.2	5.4
SHASTA	22.4	29.3	6.2 *	5.4 *	5.7	6.5
SIERRA	18.0 *	9.0 *	-	12.7 *	4.8 *	2.4 *
SISKIYOU	11.2 *	13.9 *	3.1 *	5.1 *	8.0	6.7
SOLANO	61.0	76.3	4.8	5.2	6.8	7.0
SONOMA	13.4	28.5	4.6	4.1	5.2	5.7
STANISLAUS	42.7	98.4	7.7	6.8	6.2	6.5
SUTTER	34.1	72.1	3.4 *	4.3 *	6.0	5.7
TEHAMA	5.3 *	18.9 *	7.2 *	6.9 *	5.4	6.1
TRINITY	5.0 *	7.2 *	7.0 *	6.2 *	5.9 *	7.2 *
TULARE	28.9	83.0	6.5	5.6	5.7	6.1
TUOLUMNE	3.0 *	15.7 *	8.4 *	2.9 *	5.1	4.7
VENTURA	17.3	20.6	4.9	6.2	5.9	6.6
YOLO	18.6	26.4	5.7 *	4.6 *	5.7	5.2
YUBA	37.2	96.5	8.4 *	6.3 *	7.6	6.5

**TABLE 30 (continued)**  
**A COMPARISON OF THREE-YEAR AVERAGE RATES AND PERCENTAGES**  
**AMONG SELECTED HEALTH STATUS INDICATORS**  
**CALIFORNIA COUNTIES, 2000-2005**

COUNTY	AGE-SPECIFIC BIRTH RATE		PERCENT		PERCENT BREASTFED	
	BIRTHS AMONG ADOLESCENT MOTHERS, 15 TO 19 YEARS OLD (THREE-YEAR AVERAGES) <sup>7</sup>		ADEQUATE/ADEQUATE PLUS PRENATAL CARE (THREE-YEAR AVERAGES) <sup>6</sup>		BIRTHS WITH KNOWN FEEDING METHOD (THREE-YEAR AVERAGES) <sup>6</sup>	
	2000-2002	2003-2005	2000-2002	2003-2005	2000-2002	2003-2005
<b>CALIFORNIA</b>	<b>43.6</b>	<b>38.2</b>	<b>76.9</b>	<b>78.5</b>	<b>84.4</b>	<b>86.0</b>
ALAMEDA	34.0	27.2	80.7	78.5	90.5	92.7
ALPINE	17.2 *	20.4 *	78.1 *	55.6 *	95.5 *	86.7 *
AMADOR	27.1	24.8	68.4	79.0	87.3	88.9
BUTTE	30.6	29.6	75.3	75.2	86.8	86.0
CALAVERAS	26.2	20.9	72.5	72.7	87.4	88.1
COLUSA	54.9	48.1	70.9	75.4	84.4	83.2
CONTRA COSTA	26.9	23.2	79.1	77.6	90.6	92.1
DEL NORTE	53.4	42.4	78.0	76.8	90.2	90.2
EL DORADO	23.3	17.6	73.8	68.6	91.3	92.5
FRESNO	65.0	57.1	84.0	85.9	82.1	83.9
GLENN	44.2	46.7	79.4	79.0	87.7	88.2
HUMBOLDT	29.9	27.6	69.3	67.1	91.5	91.2
IMPERIAL	63.9	57.8	66.4	65.0	78.4	80.5
INYO	33.5	35.2	69.3	63.9	90.0	91.6
KERN	66.2	62.3	76.5	74.2	79.1	80.8
KINGS	71.6	66.6	71.6	70.4	72.1	72.5
LAKE	45.8	36.9	66.2	65.9	84.1	87.5
LASSEN	30.9	31.3	82.3	73.0	90.5	89.4
LOS ANGELES	47.5	40.7	80.3	83.1	80.3	82.8
MADERA	70.7	64.1	72.0	72.3	81.1	85.4
MARIN	11.8	11.7	85.9	91.4	96.8	97.5
MARIPOSA	26.9 *	24.6 *	60.4	70.7	88.8	90.6
MENDOCINO	42.3	37.1	62.1	70.5	90.0	92.0
MERCED	60.2	54.1	55.4	56.2	81.9	84.1
MODOC	24.0 *	29.3 *	64.2	63.7	94.9	92.6
MONO	34.0 *	20.1 *	76.3	74.5	91.1	94.8
MONTEREY	59.7	58.7	75.3	75.7	93.5	93.6
NAPA	28.6	29.5	69.8	73.5	93.7	93.1
NEVADA	20.4	16.5	69.5	69.5	93.1	95.8
ORANGE	35.0	30.0	81.8	85.8	85.6	84.9
PLACER	19.6	16.8	79.9	78.9	91.3	92.0
PLUMAS	23.5 *	20.2 *	63.8	64.3	93.4	93.1
RIVERSIDE	49.7	41.1	72.7	75.9	79.2	82.8
SACRAMENTO	40.5	37.1	74.3	74.0	81.7	83.9
SAN BENITO	42.9	34.4	59.9	64.3	89.2	90.4
SAN BERNARDINO	52.1	45.8	73.9	76.1	76.5	79.5
SAN DIEGO	41.6	36.0	72.0	73.6	89.8	90.5
SAN FRANCISCO	27.0	23.2	78.3	81.0	90.6	92.7
SAN JOAQUIN	54.3	48.7	64.1	63.2	80.8	82.9
SAN LUIS OBISPO	22.1	21.4	79.4	81.7	93.9	94.4
SAN MATEO	27.9	22.3	81.5	85.1	94.4	95.2
SANTA BARBARA	41.0	40.9	75.3	79.1	91.9	93.1
SANTA CLARA	32.4	26.2	74.3	76.3	92.5	93.6
SANTA CRUZ	32.7	31.6	77.6	82.0	95.4	96.1
SHASTA	39.3	37.1	78.9	72.6	91.1	91.8
SIERRA	19.0 *	4.8 *	77.4 *	61.0 *	87.5 *	96.5 *
SISKIYOU	33.0	33.1	69.0	70.0	89.6	89.6
SOLANO	36.9	30.3	70.2	69.3	85.6	86.0
SONOMA	27.7	26.2	70.4	70.2	93.4	94.7
STANISLAUS	50.7	45.4	66.3	70.3	82.4	82.5
SUTTER	47.2	41.4	72.5	74.4	82.9	83.0
TEHAMA	52.2	44.3	77.0	70.9	86.9	88.2
TRINITY	30.2 *	23.3 *	57.1	60.5	91.9	93.4
TULARE	73.1	66.0	69.9	73.5	79.2	80.1
TUOLUMNE	24.1	22.3	72.3	76.2	90.4	90.4
VENTURA	37.5	33.4	84.0	79.8	88.4	89.6
YOLO	22.6	21.9	65.0	72.4	89.1	90.0
YUBA	70.4	57.8	68.3	70.8	77.1	78.5

\* Unreliable, relative standard error greater than or equal to 23 percent.

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

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

<sup>2</sup> The age-adjusted death rates for years 2000-2005 were calculated using the 2000 Population Standard; thus, rates may not be consistent with previous "Profiles" reports.

<sup>3</sup> Excludes multiple/contributing causes of death.

<sup>4</sup> Crude case rates are per 100,000 population.

<sup>5</sup> Birth cohort rates are per 1,000 live births.

<sup>6</sup> Low birthweight, prenatal care, and breastfeeding percents per 100 live births.

<sup>7</sup> Adolescent birth rates per 1,000 female population aged 15 to 19 years.

Source: California Department of Public Health, Center for Health Statistics: Birth and Death Statistical Master Files (2000-2005) and Birth Cohort Files (1999-2004).

California Department of Public Health, Office of AIDS, AIDS Case Registry, Genetic Disease Branch, Maternal, Child and Adolescent Health/Office of Family Planning Branch, and Division of Communicable Disease. Department of Finance: 2001 and 2004 Population Estimates with Age, Sex, and Race/Ethnic Detail, July 2007.

## TECHNICAL NOTES

### DATA SOURCES

The California Department of Public Health (CDPH), Center for Health Statistics, Office of Vital Records, was the source for the birth and death data that appear in this report. Data were tabulated from the Birth and Death Statistical Master Files for the years 2000 through 2005, and from the linked births-deaths in the Birth Cohort-Perinatal Outcome Files for the years 1999 through 2004, which are based on the Statistical Master Files. Final Birth Cohort-Perinatal Outcome File data for 2003 were not available for the publishing of the 2006 report; however, the 2003 final data are included in this report. Therefore, slight variations may be encountered when comparing previously published statistics that were based on 2003 preliminary data.

The CDPH, Division of Communicable Disease Control was the source for the reported case incidence of chlamydia, gonorrhea, and tuberculosis. The CDPH, Office of AIDS, AIDS Case Registry provided incidence data of diagnosed AIDS cases. The CDPH, Genetic Disease Branch, Newborn Screening Program collected the breastfeeding incidence data and the Maternal, Child and Adolescent Health/Office of Family Planning Branch, Epidemiology and Evaluation Section analyzed these data.

The population data are provided on the Internet by the Department of Finance, Demographic Research Unit. Estimates of persons under age 18 who were below poverty are from the U.S. Census Bureau at <http://www.census.gov/hhes/www/saife/>. These data have been updated with the most current estimates available. Population series are referenced in the table footnotes.

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

### DATA DEFINITIONS

**Mortality** (Tables 1-19): A consistent use of the consensus set of health status indicators has been facilitated by reference to the causes of mortality coded according to the ICD-10. Use of ICD-10 cause of death coding began with 1999 mortality data, which were included in the 2001 publication. "Profiles" reports published from 1993 through 2000 used the International Classification of Diseases, Ninth Revision (ICD-9) for coding cause of death. The change to ICD-10 follows a worldwide standard created by the World Health Organization. The National Center for Health Statistics (NCHS) sets the standards for implementation of the ICD-10. Readers and users of these data are cautioned that mortality tables using different coding sets may not be comparable and should not be used to create trend data.

The mortality tables have been renumbered to follow the diagnostic code listing presented in many of the NCHS publications.

Following is a list of the mortality tables in this report and the ICD-10 codes used to create these tables.

Table 1:	All Causes of Death.....	A00-Y89
Table 2:	All Cancers .....	C00-C97
Table 3:	Colorectal (Colon) Cancer .....	C18-C21
Table 4:	Lung Cancer.....	C33-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 .....	I11, I20-I25
Table 10:	Cerebrovascular Disease (Stroke).....	I60-I69
Table 11:	Influenza/Pneumonia.....	J10-J18
Table 12:	Chronic Lower Respiratory Disease .....	J40-J47
Table 13:	Chronic Liver Disease and Cirrhosis .....	K70, K73-K74
Table 14:	Unintentional Injuries .....	V01-X59, Y85-Y86
Table 15:	Motor Vehicle Crashes .....	V02-V04 (.1, .9), V09.2, V12-V14 (.3-.9), V19 (.4-.6), V20-V28 (.3-.9), V29- V79 (.4-.9), V80 (.3-.5), V81.1, V82.1, V83- V86 (.0-.3), V87 (.0-.8), V89.2
Table 16:	Suicide.....	U03, X60-X84, Y87.0
Table 17:	Homicide .....	U01-U02, X85-Y09, Y87.1
Table 18:	Firearm-Related Deaths .....	U01.4, W32-W34, X72-X74, X93-X95, Y22-Y24, Y35.0
Table 19:	Drug-Induced Deaths .....	D52.1, D59.0, D59.2, D61.1, D64.2, E06.4, E16.0, E23.1, E24.2, E27.3, E66.1, F11.0-F11.5, F11.7-F11.9, F12.0-F12.5, F12.7-F12.9, F13.0-F13.5, F13.7-F13.9, F14.0-F14.5, F14.7-F14.9, F15.0-F15.5, F15.7-F15.9, F16.0-F16.5, F16.7-F16.9, F17.0, F17.3-F17.5, F17.7-F17.9, F18.0-F18.5, F18.7-F18.9, F19.0-F19.5, F19.7-F19.9, G21.1, G24.0, G25.1, G25.4, G25.6, G44.4, G62.0, G72.0, I95.2, J70.2-J70.4, L10.5, L27.0-L27.1, M10.2, M32.0, M80.4, M81.4, M83.5, M87.1, R78.1-R78.5 X40-X44, X60-X64, X85, Y10-Y14

**Morbidity** (Tables 20-23): In general, the case definition of a disease is in terms of laboratory test results, or in the absence of a laboratory test, a constellation of clearly specified signs and symptoms that meet a series of clinical criteria. You can find the case definitions online at the CDC Nationally Notifiable Infectious Diseases URL: [http://www.cdc.gov/epo/dphsi/casedef/case\\_definitions.htm](http://www.cdc.gov/epo/dphsi/casedef/case_definitions.htm).

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 on 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.

Accuracy and completeness in the reporting of all vital events is subject to error. This fact forms the basis for the argument supporting the concept of sampling error in vital statistics and other population-based data that are intended to represent 100 percent reporting. As previously stated, the problem of incomplete reporting can be especially true for morbidity data. Therefore, the morbidity table headings emphasize that data show only reported number of cases. For more complete and technical definitions of types of morbidity, contact the Division of Communicable Disease Control or the Office of AIDS.

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

Studies of infant mortality that are based on information from death certificates alone have been found to underestimate infant death rates for infants of all race/ethnic groups and especially for certain race/ethnic groups, due to problems such as confusion about event registration requirements, incomplete data, and transfers of newborns from one facility to another for medical care. Infant mortality rates in this report are based on linked birth and infant death records in the Birth Cohort-Perinatal Outcome Files, which generate more accurate estimates of the total number of infant deaths as well as more accurate race-specific infant mortality rates. The race used on the race-specific infant mortality tables is the race of the mother, thus both the numerator and the denominator used for rate calculations reflect the mother's race only.

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

**Race/Ethnicity:** Tables 24A-24E were modified to more closely align with the 1997 Office of Management and Budget (OMB) revised minimum standards for collecting, maintaining, and presenting data on race and ethnicity as described in the 1997 OMB Directive 15, which may be reviewed at URL: <http://www.whitehouse.gov/omb/fedreg/ombdir15.html>. The mother's Hispanic origin was determined first, irrespective of race, and then the race categories for the remaining non-Hispanics were determined. The Hispanic ethnic group includes any race, but is made up primarily of the White race. The remaining mother's

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

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

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

**Nativity** (Tables 25-27B): The natality data were obtained from Birth Statistical Master Files for 2003 through 2005. Records with specific unknown attributes were excluded from the total number of live births in developing the following tables: 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 15 to 19 years of age.

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

In Profiles reports published in 1995 through 1998, the Kessner Index was used to measure the adequacy of prenatal care. The Kessner Index was replaced in the 1999 report by the Adequacy of Prenatal Care Utilization Index, which is the methodology specified in HP 2010 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 initiation of prenatal care and adequacy of received services (once prenatal care has begun). The initial dimension, adequacy of initiation of prenatal care, characterizes the adequacy of the timing of initiation of care (month prenatal care began). The second dimension, adequacy of received services, characterizes the adequacy of prenatal care visits (number of visits) received during the time the mother was actually in prenatal care (from initiation until the delivery). The adequacy of prenatal visits is based on the recommendations established by the American College of Obstetricians and Gynecologists. These two dimensions are then combined into a single summary prenatal care utilization index, which contains the following five 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 are used in Table 27B to measure the adequacy of prenatal care utilization. Also, please note the two-factor index does not assess the quality of the prenatal care that was delivered, but simply its utilization. For further information on the Adequacy of Prenatal Care Utilization Index, see the "American Journal of Public Health" article by Kotelchuck listed in the bibliography.

**Breastfeeding Initiation During Early Postpartum** (Table 28): Extensive research, especially in recent years, demonstrates the diverse and compelling advantages to infants, mothers, families, and society from breastfeeding and the use of human milk for infant feeding. Breastfeeding provides advantages with regard to the general health, growth, and development of infants, while significantly decreasing their risk for a large number of acute and chronic diseases. There are also a number of studies that indicate possible health benefits for mothers such as less postpartum bleeding, rapid uterine involution, and reduced risk of ovarian cancer and post-menopausal breast cancer. In addition to individual health benefits, breastfeeding provides significant social and economic benefits to the nation, including reduced health care costs and reduced employee absenteeism for care attributable to child illness. The breastfeeding initiation data presented in this report were obtained from the Genetic Disease Branch, Newborn Screening Program with analyses by the Maternal, Child and Adolescent Health/Office of Family Planning Branch, Epidemiology and Evaluation Section. All nonmilitary hospitals are required to complete the Newborn Screening Test Form prior to an infant’s discharge. Upon completing the form, staff must select one of the following five categories to describe ‘all feedings since birth’ (not including water feedings): (1) Breast only, (2) Formula only, (3) Breast and Formula, (4) TPN/Hyperal, and (5) Other. The numerator (average number of breastfed

infants) for breastfeeding initiation data presented in Table 28 includes records marked as either "Breast Only" or "Breast and Formula." The denominator (average number of total births) excludes cases with unknown method of feeding (not reported) and cases marked as "TPN/Hyperal" or "Other."

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

**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 the population under 18 below poverty. The percent of children under 18 in this category is an indicator of global risk factors that have implications for accessibility to health services.

**Comparison of Rates and Percentages, Current and Prior Period** (Table 30): Rates and percentages have been calculated for one prior period to facilitate a comparison of the change occurring between the prior period and the current reported statistics for selected health indicators. Readers are cautioned that measuring progress toward target attainment for a HP 2010 objective using only one data point is not recommended. In monitoring progress toward achieving the objective target rate, HP 2010 guidelines recommend using absolute differences between the target rate, the most recent data point, and a progress quotient. HP 2010 guidelines for measuring objectives are available online at <http://www.cdc.gov/nchs/hphome.htm>.

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

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

A non-standardized rate (or "crude rate") is calculated by dividing the total number of vital 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 tend to have a high death rate. Any unwanted effect of different age compositions among counties can be removed from the county death rates by the process of "age-adjustment." By removing the effect of different age compositions, counties with age-adjusted rates are directly comparable with the HP 2010 National Objectives.

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 the 2000 U.S. Standard Population. The age-adjusted rates put all counties on the same footing with respect to the effect of age and permit direct comparisons among counties. It

is important to understand that age-adjusted death rates should be viewed as constructs or index numbers rather than as actual measures of the risk of mortality. Crude death rates, which include the effect of age, are the rates that should be applied when measuring the actual risk of dying in a specific population. For further information on age-adjusted rates, see the 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 effect 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. Comparisons among counties reflect the actual risk of dying within one year of birth in the cohort of births, and at the same time, are unaffected by confounding of different age compositions because the cohorts are all of the same age group (under one year).

## **RELIABILITY OF RATES**

All vital statistics rates, including morbidity rates, are subject to random variation. This variation is inversely related to the number of events (e.g., deaths) used to calculate the rate. Small frequencies in the occurrence of events result in 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 vital events is especially hazardous, regardless of the size of the population. This report reduces some year-to-year fluctuation in the occurrence of rare events by basing rates on three-year average numbers of vital events (e.g., 2003-2005), divided by the population in the middle year (e.g., 2004).

The "standard error" of a death rate and "coefficient of variation" (or relative standard error) provide a rational basis for determining which rates may be considered "unreliable." Conforming to NCHS standards, rates and percentages with a relative standard error greater than or equal to 23 percent of the rate or percent are considered unreliable and are marked with an asterisk (\*). 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 region 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. For appropriate statistical methodologies in comparing independent rates or percentages, please see the NCHS reports listed in the bibliography by Curtin and Klein on "Direct Standardization" and by Kleinman on "Infant Mortality."

## **RANKING OF COUNTIES**

Data on each health indicator, except adequacy of prenatal care (Table 27B) and incidence of breastfeeding (Table 28), are displayed with the counties in rank order by increasing rates or percentages (calculated to 15 decimal places). The county with the lowest rate or percentage is in the first rank while the county with the highest rate or percentage is in the

fifty-eighth rank. Data for adequacy of prenatal care and incidence of breastfeeding are displayed with the counties in rank order by decreasing percentages (calculated to 15 decimal places). A county having the highest percentage is in the first rank and the county with the lowest percentage is in the fifty-eighth rank. For all health indicators, counties with identical rates or percentages are ranked first by largest population or number of births, thus larger counties may appear ahead of smaller counties.

## **THEMATIC MAP**

ArcGIS, version 9, 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 unreliable rates or percentages (relative standard error greater than or equal to 23 percent) or zero events are shown with an overlay of diagonal dashes.

The mapping methodology strives to illustrate rates/percentages for each indicator in a way that highlights a county's status in meeting the HP 2010 Objective target, if one exists, and in comparison with the California rate. For example, a typical map for an indicator with a HP 2010 Objective displays the counties that have achieved the Objective in the lightest shade (see Colorectal (colon) Cancer table with map on pages 7 and 8), counties with a rate between the California rate and the Objective target in the medium shade, and counties with a rate above the California rate in the darkest shade.

Rates/percentages for health indicators without established HP 2010 Objectives, or with HP 2010 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 fiftieth percentile of the rates/percentages among those counties.

## **THEMATIC MAP METHODOLOGY EXCEPTIONS**

Due to the fact that no counties had age-adjusted death or infant mortality rates between the HP 2010 target rate and the California rate for coronary heart disease deaths (pages 19 and 20) and for the White infant mortality race group (pages 57 and 58), the rates are arrayed in two categories by counties with rates equal to or lower than the HP 2010 target rate and those counties not meeting the HP 2010 target rate.

Age-adjusted death rates for unintentional injuries (pages 29 and 30) are arrayed by counties having rates at or below the California rate with the remaining counties above California's rate divided into two groups by the fiftieth percentile break among those counties. The HP 2010 target rate was not met by any of California's counties.

Infant mortality rates are displayed for the Asian/Pacific Islander race group (pages 51 and 52) by counties at or below the California rate, by counties with rates above California's rate but within the HP 2010 target rate, and by counties with rates above the HP 2010 target rate.

Percentages for breastfeeding initiation (pages 67 and 68) are arrayed by counties with percentages equal to or above the California percentage, by counties equal to or above the HP 2010 Objective target percentage but below California's percentage, and by counties whose percentages did not meet the HP 2010 target percentage. All of California's counties, except Kings County, met the HP 2010 Objective.

## FORMULAS USED IN THIS REPORT

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

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

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

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

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

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

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

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

Where:

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

## 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 2010 National Objectives. The standard population was the year 2000 U.S. population. The data in the following example were extracted from Table 1: Deaths Due to All Causes, 2003-2005 for Alameda County.

ALAMEDA COUNTY					
AGE GROUPS	2003-2005 DEATHS (AVERAGE) (A)	2004 POPULATION (B)	AGE-SPECIFIC RATE/100,000 (C)	2000 U.S. STANDARD POPULATION PROPORTIONS (D)	WEIGHTED RATE FACTORS (E)
TOTAL	9,444.7	1,497,316	630.8		
Unknown	2.7				
<1	104.3	20,876	499.8	0.013818	6.9
1-4	13.0	84,197	15.4	0.055317	0.9
5-14	27.7	200,706	13.8	0.145565	2.0
15-24	128.3	190,961	67.2	0.138646	9.3
25-34	185.3	231,268	80.1	0.135573	10.9
35-44	367.3	250,604	146.6	0.162613	23.8
45-54	819.7	217,265	377.3	0.134834	50.9
55-64	1,091.3	145,187	751.7	0.087247	65.6
65-74	1,419.0	78,588	1,805.6	0.066037	119.2
75-84	2,581.3	55,681	4,635.9	0.044842	207.9
>84	2,704.7	21,983	12,303.4	0.015508	190.8
<b>AGE-ADJUSTED RATE.....</b>					<b>688.2</b>

- STEP 1:** Array the data of three-year average number of deaths and population for 11 age groups in columns A and B.
- STEP 2:** Calculate age-specific rates by dividing the number of deaths in column A (numerator) by the population in column B (denominator). Multiply the result (quotient) by the base of 100,000 to obtain the rates in column C.
- STEP 3:** Multiply each age-specific rate in column C by the corresponding 2000 U.S. Standard 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 688.2 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.
- STEP 6:** Direct comparisons can now be made among the counties, with the removal of the effect that varying county age compositions may have on death rates.

## APPENDIX A

### COMPARISON OF CALIFORNIA'S HEALTH STATUS PROFILES 2007 REPORT WITH U.S. RATES

HP2010 OBJECTIVE	INDICATOR	NATIONAL OBJECTIVE	UNITED STATES <sup>1,2</sup>	CALIFORNIA	CALIFORNIA vs UNITED STATES (% Difference)
<b>MORTALITY (per 100,000 population)</b>					
	ALL CAUSES	a	800.8	716.7	-10.5%
3-1	ALL CANCERS	158.6	185.8	165.1	-11.1%
3-5	COLORECTAL (COLON) CANCER	13.7	18.0	16.0	-11.1%
3-2	LUNG CANCER	43.3	53.2	41.5	-22.0%
3-3	FEMALE BREAST CANCER	21.3	24.4	22.7	-7.0%
3-7	PROSTATE CANCER	28.2	25.4	23.8	-6.3%
5-5	DIABETES	b	24.5	22.3	-9.0%
	ALZHEIMER'S DISEASE	a	21.8	22.1	1.4%
12-1	CORONARY HEART DISEASE	162.0	160.0	163.1	1.9%
12-7	CEREBROVASCULAR DISEASE (STROKE)	50.0	50.0	51.7	3.4%
	INFLUENZA/PNEUMONIA	a	19.8	23.8	20.2%
	CHRONIC LOWER RESPIRATORY DISEASE	a	41.1	40.7	-1.0%
26-2	CHRONIC LIVER DISEASE AND CIRRHOSIS	3.2	9.0	10.8	20.0%
15-13	UNINTENTIONAL INJURIES	17.1	37.7	30.0	-20.4%
15-15a	MOTOR VEHICLE CRASHES	8.0	14.7	12.2	-17.0%
18-1	SUICIDE	4.8	10.9	9.3	-14.7%
15-32	HOMICIDE	2.8	5.9	6.8	15.3%
15-3	FIREARM-RELATED DEATHS	3.6	10.0	9.4	-6.0%
26-3	DRUG-INDUCED DEATHS	1.2	10.4	10.2	-1.9%
<b>MORBIDITY (per 100,000 population)</b>					
13-1	AIDS INCIDENCE (AGE 13 AND OVER)	1.0	16.3	12.6	-22.7%
14-11	TUBERCULOSIS INCIDENCE	1.0	4.9	8.3	69.4%
25-1	CHLAMYDIA INCIDENCE	c	d	336.9	
25-2a	GONORRHEA INCIDENCE	19.0	114.0	82.3	-27.8%
<b>INFANT MORTALITY (per 1,000 live births)</b>					
16-1c	INFANT DEATHS: ALL RACES	4.5	6.8	5.4	-20.6%
16-1c	INFANT DEATHS: ASIAN/PACIFIC ISLANDER	4.5	4.8	4.0	-16.7%
16-1c	INFANT DEATHS: BLACK	4.5	13.5	11.6	-14.1%
16-1c	INFANT DEATHS: HISPANIC	4.5	5.6	5.2	-7.1%
16-1c	INFANT DEATHS: WHITE	4.5	5.7	4.6	-19.3%
<b>NATALITY (per 100 live births; 1,000 population)</b>					
16-10a	LOW BIRTHWEIGHT INFANTS	5.0	8.1	6.7	-17.3%
16-6a	LATE OR NO PRENATAL CARE	10.0	16.1	13.0	-19.3%
16-6b	ADEQUATE/ADEQUATE PLUS CARE	90.0	75.0	78.5	4.7%
	BIRTHS TO MOTHERS AGED 15-19	a	41.1	38.2	-7.1%
<b>BREASTFEEDING (per 100 births)</b>					
16-19a	BREASTFEEDING INITIATION	75.0	73.8	86.0	16.5%
<b>CENSUS 2004</b>					
	PERSONS UNDER 18 IN POVERTY	a	17.8	18.3	2.8%

<sup>1</sup> 2004 mortality, morbidity, and teenage birth rates. 2004 breastfeeding and natality percentages.

<sup>2</sup> 2003 infant mortality (birth cohort).

a Healthy People 2010 (HP 2010) National Objective has not been established.

b National Objective is based on both underlying and contributing cause of death which requires use of multiple cause of death files. California's data exclude multiple/contributing causes of death.

c Prevalence data were not available in all California counties to evaluate HP 2010 National Objective of no more than 3 percent testing positive in the population aged 15 to 24 years.

d National rate is not comparable to California due to rate calculation methods.

Note: Crude death rates, crude case rates, and age-adjusted death rates are per 100,000 population.

Birth cohort infant death rates are per 1,000 live births. Age-specific birth rates are per 1,000 population.

Source: California Department of Public Health, Center for Health Statistics. Birth and Death Statistical Master Files, 2003-2005, and Birth Cohort-Perinatal Outcome Files, 2002-2004.

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